



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Ken Kreie
Cordilleran Compliance - GJ, CO
826 21 1/2 Road

Grand Junction, CO 81505

Report Summary

Monday June 08, 2009

Report Number: L405373

Samples Received: 06/02/09

Client Project:

Description: Noble 1J Pit

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

John D. Blackman, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

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Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

8 Samples Reported: 06/08/09 16:40 Printed: 06/08/09 16:41

Page 1 of 13

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REPORT OF ANALYSIS

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

June 08, 2009

Date Received : June 02, 2009
Description : Noble 1J Pit

Sample ID : 1J NW15

Collected By : Ken Kreie
Collection Date : 05/28/09 15:05

ESC Sample # : L405373-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.1		su	9045D	06/05/09	1
Sodium Adsorption Ratio	2.5			Calc.	06/06/09	218.5
Specific Conductance	2800		umhos/cm	9050AMod	06/03/09	1
Benzene	BDL	0.0025	mg/kg	8021/8015	06/04/09	5
Toluene	BDL	0.025	mg/kg	8021/8015	06/04/09	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	06/04/09	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	06/04/09	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	06/04/09	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	90.9		% Rec.	8021/8015	06/04/09	5
a,a,a-Trifluorotoluene(PID)	99.5		% Rec.	8021/8015	06/04/09	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	06/04/09	1
Surrogate recovery(%)						
o-Terphenyl	97.8		% Rec.	3546/DRO	06/04/09	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 06/08/09 16:40 Printed: 06/08/09 16:41
L405373-01 (PH) - 8.1@21.6c

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REPORT OF ANALYSIS

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

June 08, 2009

Date Received : June 02, 2009
Description : Noble 1J Pit

Sample ID : 1J NW25

Collected By : Ken Kreie
Collection Date : 05/28/09 15:30

ESC Sample # : L405373-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.5		su	9045D	06/05/09	1
Sodium Adsorption Ratio	2.5			Calc.	06/06/09	30.31
Specific Conductance	720		umhos/cm	9050AMod	06/03/09	1
Benzene	BDL	0.0025	mg/kg	8021/8015	06/05/09	5
Toluene	BDL	0.025	mg/kg	8021/8015	06/05/09	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	06/05/09	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	06/05/09	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	06/05/09	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	89.8		% Rec.	8021/8015	06/05/09	5
a,a,a-Trifluorotoluene(PID)	98.2		% Rec.	8021/8015	06/05/09	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	06/04/09	1
Surrogate recovery(%)						
o-Terphenyl	98.9		% Rec.	3546/DRO	06/04/09	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Reported: 06/08/09 16:40 Printed: 06/08/09 16:41
L405373-02 (PH) - 8.5@20.9c

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REPORT OF ANALYSIS

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

June 08, 2009

Date Received : June 02, 2009
Description : Noble 1J Pit

Sample ID : 1J NE15

Collected By : Ken Kreie
Collection Date : 05/28/09 16:00

ESC Sample # : L405373-03

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.6		su	9045D	06/05/09	1
Sodium Adsorption Ratio	17.			Calc.	06/06/09	62.31
Specific Conductance	2000		umhos/cm	9050AMod	06/03/09	1
Benzene	BDL	0.050	mg/kg	8021/8015	06/05/09	100
Toluene	BDL	0.50	mg/kg	8021/8015	06/05/09	100
Ethylbenzene	0.10	0.050	mg/kg	8021/8015	06/05/09	100
Total Xylene	BDL	0.15	mg/kg	8021/8015	06/05/09	100
TPH (GC/FID) Low Fraction	14.	10.	mg/kg	GRO	06/05/09	100
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	91.4		% Rec.	8021/8015	06/05/09	100
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	06/05/09	100
TPH (GC/FID) High Fraction	110	4.0	mg/kg	3546/DRO	06/04/09	1
Surrogate recovery(%)						
o-Terphenyl	84.7		% Rec.	3546/DRO	06/04/09	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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L405373-03 (PH) - 8.6@21.3c

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REPORT OF ANALYSIS

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

June 08, 2009

Date Received : June 02, 2009
Description : Noble 1J Pit

Sample ID : 1J NE25

Collected By : Ken Kreie
Collection Date : 05/28/09 16:25

ESC Sample # : L405373-04

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.7		su	9045D	06/05/09	1
Sodium Adsorption Ratio	3.0			Calc.	06/06/09	31.01
Specific Conductance	510		umhos/cm	9050AMod	06/03/09	1
Benzene	BDL	0.0025	mg/kg	8021/8015	06/05/09	5
Toluene	BDL	0.025	mg/kg	8021/8015	06/05/09	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	06/05/09	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	06/05/09	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	06/05/09	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	90.4		% Rec.	8021/8015	06/05/09	5
a,a,a-Trifluorotoluene(PID)	98.9		% Rec.	8021/8015	06/05/09	5
TPH (GC/FID) High Fraction	6.3	4.0	mg/kg	3546/DRO	06/04/09	1
Surrogate recovery(%)						
o-Terphenyl	77.5		% Rec.	3546/DRO	06/04/09	1

BDL - Below Detection Limit

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L405373-04 (PH) - 8.7@20.9c

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REPORT OF ANALYSIS

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

June 08, 2009

Date Received : June 02, 2009
Description : Noble 1J Pit

Sample ID : 1J W15

Collected By : Ken Kreie
Collection Date : 05/29/09 10:45

ESC Sample # : L405373-05

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.8		su	9045D	06/05/09	1
Sodium Adsorption Ratio	2.4			Calc.	06/06/09	7.248
Specific Conductance	220		umhos/cm	9050AMod	06/04/09	1
Benzene	BDL	0.0025	mg/kg	8021/8015	06/05/09	5
Toluene	BDL	0.025	mg/kg	8021/8015	06/05/09	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	06/05/09	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	06/05/09	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	06/05/09	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	89.9		% Rec.	8021/8015	06/05/09	5
a,a,a-Trifluorotoluene(PID)	98.2		% Rec.	8021/8015	06/05/09	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	06/04/09	1
Surrogate recovery(%)						
o-Terphenyl	88.6		% Rec.	3546/DRO	06/04/09	1

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L405373-05 (PH) - 8.8@20.8c

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REPORT OF ANALYSIS

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826 21 1/2 Road
Grand Junction, CO 81505

June 08, 2009

Date Received : June 02, 2009
Description : Noble 1J Pit

Sample ID : 1J W25

Collected By : Ken Kreie
Collection Date : 05/29/09 12:15

ESC Sample # : L405373-06

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.5		su	9045D	06/05/09	1
Sodium Adsorption Ratio	2.3			Calc.	06/06/09	13.53
Specific Conductance	270		umhos/cm	9050AMod	06/04/09	1
Benzene	BDL	0.0025	mg/kg	8021/8015	06/05/09	5
Toluene	BDL	0.025	mg/kg	8021/8015	06/05/09	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	06/05/09	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	06/05/09	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	06/05/09	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	89.4		% Rec.	8021/8015	06/05/09	5
a,a,a-Trifluorotoluene(PID)	98.0		% Rec.	8021/8015	06/05/09	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	06/04/09	1
Surrogate recovery(%)						
o-Terphenyl	94.8		% Rec.	3546/DRO	06/04/09	1

BDL - Below Detection Limit

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L405373-06 (PH) - 8.5@20.6c

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REPORT OF ANALYSIS

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

June 08, 2009

Date Received : June 02, 2009
Description : Noble 1J Pit

Sample ID : 1J SW15

Collected By : Ken Kreie
Collection Date : 05/29/09 13:30

ESC Sample # : L405373-07

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.3		su	9045D	06/05/09	1
Sodium Adsorption Ratio	2.7			Calc.	06/06/09	47.37
Specific Conductance	530		umhos/cm	9050AMod	06/04/09	1
Benzene	BDL	0.0025	mg/kg	8021/8015	06/05/09	5
Toluene	BDL	0.025	mg/kg	8021/8015	06/05/09	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	06/05/09	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	06/05/09	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	06/05/09	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	90.0		% Rec.	8021/8015	06/05/09	5
a,a,a-Trifluorotoluene(PID)	98.5		% Rec.	8021/8015	06/05/09	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	06/04/09	1
Surrogate recovery(%)						
o-Terphenyl	96.6		% Rec.	3546/DRO	06/04/09	1

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L405373-07 (PH) - 8.3@20.9c

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REPORT OF ANALYSIS

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

June 08, 2009

Date Received : June 02, 2009
Description : Noble 1J Pit

Sample ID : 1J SW25

Collected By : Ken Kreie
Collection Date : 05/29/09 14:20

ESC Sample # : L405373-08

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.0		su	9045D	06/05/09	1
Sodium Adsorption Ratio	1.2			Calc.	06/06/09	34.66
Specific Conductance	540		umhos/cm	9050AMod	06/04/09	1
Benzene	BDL	0.0025	mg/kg	8021/8015	06/05/09	5
Toluene	BDL	0.025	mg/kg	8021/8015	06/05/09	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	06/05/09	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	06/05/09	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	06/05/09	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	92.7		% Rec.	8021/8015	06/05/09	5
a,a,a-Trifluorotoluene(PID)	99.7		% Rec.	8021/8015	06/05/09	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	06/04/09	1
Surrogate recovery(%)						
o-Terphenyl	95.2		% Rec.	3546/DRO	06/04/09	1

BDL - Below Detection Limit

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Reported: 06/08/09 16:40 Printed: 06/08/09 16:41
L405373-08 (PH) - 8.0@20.9c

Summary of Remarks For Samples Printed
06/08/09 at 16:41:20

TSR Signing Reports: 151
R5 - Desired TAT

cb-1/05;Run ALKs on separate dash, 1 day TAT, R3 priority; Client sends unpreserved vials for all projects; Run BTEXM by 8260 on separate dash.

Sample: L405373-01 Account: CORCOMGCO Received: 06/02/09 09:00 Due Date: 06/09/09 00:00 RPT Date: 06/08/09 16:40
Sample: L405373-02 Account: CORCOMGCO Received: 06/02/09 09:00 Due Date: 06/09/09 00:00 RPT Date: 06/08/09 16:40
Sample: L405373-03 Account: CORCOMGCO Received: 06/02/09 09:00 Due Date: 06/09/09 00:00 RPT Date: 06/08/09 16:40
Sample: L405373-04 Account: CORCOMGCO Received: 06/02/09 09:00 Due Date: 06/09/09 00:00 RPT Date: 06/08/09 16:40
Sample: L405373-05 Account: CORCOMGCO Received: 06/02/09 09:00 Due Date: 06/09/09 00:00 RPT Date: 06/08/09 16:40
Sample: L405373-06 Account: CORCOMGCO Received: 06/02/09 09:00 Due Date: 06/09/09 00:00 RPT Date: 06/08/09 16:40
Sample: L405373-07 Account: CORCOMGCO Received: 06/02/09 09:00 Due Date: 06/09/09 00:00 RPT Date: 06/08/09 16:40
Sample: L405373-08 Account: CORCOMGCO Received: 06/02/09 09:00 Due Date: 06/09/09 00:00 RPT Date: 06/08/09 16:40



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Cordilleran Compliance - GJ, CO
Ken Kreie
826 21 1/2 Road

Quality Assurance Report Level II

Grand Junction, CO 81505

June 08, 2009

L405373

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Specific Conductance	1.10	umhos/cm			WG424605	06/03/09 16:29
TPH (GC/FID) High Fraction	< 4	ppm			WG424641	06/04/09 01:48
o-Terphenyl		% Rec.	104.2	50-150	WG424641	06/04/09 01:48
Specific Conductance	2.10	umhos/cm			WG424835	06/04/09 16:01
Benzene	< .0005	mg/kg			WG425028	06/05/09 05:07
Ethylbenzene	< .0005	mg/kg			WG425028	06/05/09 05:07
Toluene	< .005	mg/kg			WG425028	06/05/09 05:07
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG425028	06/05/09 05:07
a,a,a-Trifluorotoluene(FID)		% Rec.	93.80	59-128	WG425028	06/05/09 05:07
a,a,a-Trifluorotoluene(PID)		% Rec.	101.4	54-144	WG425028	06/05/09 05:07
pH	4.80	su			WG424878	06/05/09 11:30
Benzene	< .0005	mg/kg			WG424864	06/04/09 20:18
Ethylbenzene	< .0005	mg/kg			WG424864	06/04/09 20:18
Toluene	< .005	mg/kg			WG424864	06/04/09 20:18
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG424864	06/04/09 20:18
a,a,a-Trifluorotoluene(FID)		% Rec.	91.37	59-128	WG425028	06/05/09 20:18
a,a,a-Trifluorotoluene(PID)		% Rec.	100.5	54-144	WG424864	06/04/09 20:18

Analyte	Units	Result	Duplicate		Limit	Ref Samp	Batch
			Duplicate	RPD			
Specific Conductance	umhos/cm	583.	580.	0.516	20	L404784-01	WG424605
Specific Conductance	umhos/cm	501.	510.	1.78	20	L405373-04	WG424605
Specific Conductance	umhos/cm	4930	5300	7.23	20	L405366-06	WG424835
Specific Conductance	umhos/cm	23.4	24.0	2.53	20	L405573-02	WG424835
pH	su	12.3	12.0	2.47	20	L404865-01	WG424878
pH	su	8.00	8.10	1.24	20	L405373-01	WG424878

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Specific Conductance	umhos/cm	589	540.	91.7	85-115	WG424605
TPH (GC/FID) High Fraction	ppm	60	57.5	95.8	50-150	WG424641
o-Terphenyl				108.0	50-150	WG424641
Specific Conductance	umhos/cm	589	540.	91.7	85-115	WG424835
Benzene	mg/kg	.05	0.0466	93.3	76-113	WG425028
Ethylbenzene	mg/kg	.05	0.0439	87.7	78-115	WG425028
Toluene	mg/kg	.05	0.0448	89.6	76-114	WG425028
a,a,a-Trifluorotoluene(PID)				101.9	54-144	WG425028

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Cordilleran Compliance - GJ, CO
Ken Kreie
826 21 1/2 Road

Quality Assurance Report Level II

Grand Junction, CO 81505

June 08, 2009

L405373

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
TPH (GC/FID) Low Fraction	mg/kg	5.5	4.49	81.6	67-135	WG425028
a,a,a-Trifluorotoluene(FID)				111.7	59-128	WG425028
pH	su	9.04	8.90	98.5	97.4-102.6	WG424878
Benzene	mg/kg	.05	0.0436	87.2	76-113	WG424864
Ethylbenzene	mg/kg	.05	0.0426	85.3	78-115	WG424864
Toluene	mg/kg	.05	0.0436	87.1	76-114	WG424864
a,a,a-Trifluorotoluene(FID)				91.00	59-128	WG424864
a,a,a-Trifluorotoluene(PID)				97.38	54-144	WG424864
TPH (GC/FID) Low Fraction	mg/kg	5.5	4.33	78.8	67-135	WG424864
a,a,a-Trifluorotoluene(FID)				112.0	59-128	WG424864
a,a,a-Trifluorotoluene(PID)				129.6	54-144	WG424864

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Specific Conductance	umhos/	540.	540.	92.0	85-115	0.00	20	WG424605
TPH (GC/FID) High Fraction	ppm	53.1	57.5	89.0	50-150	7.84	25	WG424641
o-Terphenyl				98.93	50-150			WG424641
Specific Conductance	umhos/	540.	540.	92.0	85-115	0.00	20	WG424835
Benzene	mg/kg	0.0455	0.0466	91.0	76-113	2.49	20	WG425028
Ethylbenzene	mg/kg	0.0424	0.0439	85.0	78-115	3.32	20	WG425028
Toluene	mg/kg	0.0442	0.0448	88.0	76-114	1.42	20	WG425028
a,a,a-Trifluorotoluene(PID)				99.49	54-144			WG425028
TPH (GC/FID) Low Fraction	mg/kg	4.48	4.49	81.0	67-135	0.222	20	WG425028
a,a,a-Trifluorotoluene(FID)				111.2	59-128			WG425028
pH	su	8.90	8.90	98.0	97.4-102.6	0.00	20	WG424878
Benzene	mg/kg	0.0446	0.0436	89.0	76-113	2.17	20	WG424864
Ethylbenzene	mg/kg	0.0434	0.0426	87.0	78-115	1.68	20	WG424864
Toluene	mg/kg	0.0441	0.0436	88.0	76-114	1.29	20	WG424864
a,a,a-Trifluorotoluene(FID)				90.76	59-128			WG424864
a,a,a-Trifluorotoluene(PID)				96.99	54-144			WG424864
TPH (GC/FID) Low Fraction	mg/kg	4.44	4.33	81.0	67-135	2.49	20	WG424864
a,a,a-Trifluorotoluene(FID)				112.6	59-128			WG424864
a,a,a-Trifluorotoluene(PID)				130.6	54-144			WG424864

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
TPH (GC/FID) High Fraction	ppm	45.1	0.00	60	75.1	50-150	L405366-06	WG424641
o-Terphenyl					85.00	50-150		WG424641
Benzene	mg/kg	0.218	0.00	.05	87.3	32-137	L405373-08	WG425028
Ethylbenzene	mg/kg	0.187	0.00	.05	74.7	10-150	L405373-08	WG425028
Toluene	mg/kg	0.206	0.00	.05	82.4	20-142	L405373-08	WG425028

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Est. 1970

Cordilleran Compliance - GJ, CO
Ken Kreie
826 21 1/2 RoadQuality Assurance Report
Level II

Grand Junction, CO 81505

June 08, 2009

L405373

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
a,a,a-Trifluorotoluene(PID)					101.7	54-144		
TPH (GC/FID) Low Fraction	mg/kg	20.2	0.00	5.5	73.5	55-109	L405373-08	WG425028
a,a,a-Trifluorotoluene(FID)					101.4	59-128		WG425028
Benzene	mg/kg	0.194	0.00	.05	77.8	32-137	L405373-01	WG424864
Ethylbenzene	mg/kg	0.191	0.00	.05	76.2	10-150	L405373-01	WG424864
Toluene	mg/kg	0.194	0.00	.05	77.6	20-142	L405373-01	WG424864
a,a,a-Trifluorotoluene(FID)					92.25	59-128		WG424864
a,a,a-Trifluorotoluene(PID)					99.26	54-144		WG424864
TPH (GC/FID) Low Fraction	mg/kg	22.4	0.00	5.5	81.5	55-109	L405331-06	WG424864
a,a,a-Trifluorotoluene(FID)					107.5	59-128		WG424864
a,a,a-Trifluorotoluene(PID)					122.8	54-144		WG424864

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
TPH (GC/FID) High Fraction	ppm	50.6	45.1	84.4	50-150	11.6	25	L405366-06	WG424641
o-Terphenyl				91.97	50-150				WG424641
Benzene	mg/kg	0.220	0.218	88.0	32-137	0.740	39	L405373-08	WG425028
Ethylbenzene	mg/kg	0.187	0.187	74.8	10-150	0.263	44	L405373-08	WG425028
Toluene	mg/kg	0.207	0.206	82.8	20-142	0.540	42	L405373-08	WG425028
a,a,a-Trifluorotoluene(PID)				99.79	54-144				WG425028
TPH (GC/FID) Low Fraction	mg/kg	19.2	20.2	69.8	55-109	5.24	20	L405373-08	WG425028
a,a,a-Trifluorotoluene(FID)				101.5	59-128				WG425028
Benzene	mg/kg	0.195	0.194	77.9	32-137	0.243	39	L405373-01	WG424864
Ethylbenzene	mg/kg	0.193	0.191	77.3	10-150	1.33	44	L405373-01	WG424864
Toluene	mg/kg	0.195	0.194	78.0	20-142	0.553	42	L405373-01	WG424864
a,a,a-Trifluorotoluene(FID)				89.89	59-128				WG424864
a,a,a-Trifluorotoluene(PID)				96.82	54-144				WG424864
TPH (GC/FID) Low Fraction	mg/kg	19.3	22.4	70.2	55-109	14.9	20	L405331-06	WG424864
a,a,a-Trifluorotoluene(FID)				101.3	59-128				WG424864
a,a,a-Trifluorotoluene(PID)				109.3	54-144				WG424864

Batch number /Run number / Sample number cross reference

WG424605: R770326: L405373-01 02 03 04
WG424641: R771446: L405373-01 02 03 04 05 06 07 08
WG424835: R772607: L405373-05 06 07 08
WG425028: R774146: L405373-08
WG424878: R774166: L405373-01 02 03 04 05 06 07 08
WG424864: R774586: L405373-01 02 03 04 05 06 07
WG424616: R776226: L405373-01 02 03 04 05 06 07 08* * Calculations are performed prior to rounding of reported values .
* Performance of this Analyte is outside of established criteria.
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Cordilleran Compliance - GJ, CO
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Quality Assurance Report
Level II

Grand Junction, CO 81505

L405373

June 08, 2009

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.