

				Analytes (BDL = Below Detection Limit; ND = Non Detect)																		Inorganics in Soil			Metals in Soil (mg/kg [ppm])													
Allowable Concentration -->				Organic Compounds in Soil (mg/kg [ppm])																		(<12)	(6-9)	0.39	15000	70	120000	23	3100	400	23	1600	390	390	23000			
Location	Sample Date:	Sample Matrix	Matrix Notes	TPH (total volatile and extractable petroleum hydrocarbons)	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C36) High Fraction	Benzene	Toluene	Ethylbenzene	Xylenes - total	Acenaphthene	Anthracene	Benzo(A)anthracene	Benzo(B)fluoranthene	Benzo(K)fluoranthene	Benzo(A)pyrene	Chrysene	Dibenzo(A,H)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-C,D)pyrene	Naphthalene	Pyrene	EC (<4 mmhos/cm or 2x background)	SAR (calculation)	pH	Arsenic	Barium - EPA Total Barium	Cadmium	Chromium (III)	Chromium (VI)	Copper	Lead (inorganic)	Mercury	Nickel (soluble salts)	Selenium	Silver	Zinc
J16W	05/18/12	Cuttings	Composite 1	381.4	1.4	380	0.0028	BDL	BDL	BDL	0.012	0.0088	0.1	0.012	BDL	0.0078	0.024	BDL	0.014	0.043	BDL	0.14	0.012	2.6	34	8.4	6	7500	0.28	13	BDL	25	25	0.022	6.3	BDL	BDL	40
J16W	05/18/12	Cuttings	Composite 2	221	1	220	0.0034	BDL	BDL	BDL	0.007	0.0085	0.11	0.0094	BDL	0.0067	0.021	BDL	0.0062	0.039	BDL	0.13	0.013				3.4											
J16W	05/18/12	Cuttings	Composite 3	381.8	1.8	380	0.0054	BDL	BDL	BDL	0.009	0.0071	0.0763	0.01	BDL	0.0066	0.018	BDL	0.025	0.037	BDL	0.11	0.015				2.8											



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Est. 1970

Chris Hines / Matt Kasten
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Report Summary

Thursday May 24, 2012

Report Number: L576198

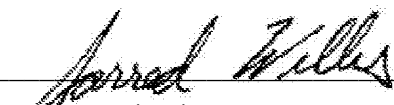
Samples Received: 05/19/12

Client Project: WA-000133-8893

Description: J16W Cuttings

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:


Jayred Willis, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979

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

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

Chris Hines / Matt Kasten
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

May 24, 2012

Date Received : May 19, 2012
Description : J16W Cuttings
Sample ID : J16W-CUT1-051812
Collected By : CJB
Collection Date : 05/18/12 11:15

ESC Sample # : L576198-01

Site ID :

Project # : WA-000133-8893

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	05/24/12	1
Chromium, Trivalent	13.	2.0	mg/kg	Calc.	05/22/12	1
ORP	86.		mV	2580	05/21/12	1
pH	8.4		su	9045D	05/22/12	1
Sodium Adsorption Ratio	34.			Calc.	05/22/12	1
Specific Conductance	2600		umhos/cm	9050AMod	05/21/12	1
Mercury	0.022	0.020	mg/kg	7471	05/22/12	1
Arsenic	6.0	1.0	mg/kg	6010B	05/22/12	1
Barium	7500	1.2	mg/kg	6010B	05/23/12	5
Cadmium	0.28	0.25	mg/kg	6010B	05/22/12	1
Chromium	13.	0.50	mg/kg	6010B	05/22/12	1
Copper	25.	1.0	mg/kg	6010B	05/22/12	1
Lead	25.	0.25	mg/kg	6010B	05/22/12	1
Nickel	6.3	1.0	mg/kg	6010B	05/22/12	1
Selenium	BDL	1.0	mg/kg	6010B	05/22/12	1
Silver	BDL	0.50	mg/kg	6010B	05/23/12	1
Zinc	40.	1.5	mg/kg	6010B	05/22/12	1
Benzene	0.0028	0.0025	mg/kg	8021/8015	05/19/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	05/19/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	05/19/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	05/19/12	5
TPH (GC/FID) Low Fraction	1.4	0.50	mg/kg	GRO	05/19/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	94.0		% Rec.	8021/8015	05/19/12	5
a,a,a-Trifluorotoluene(PID)	92.3		% Rec.	8021/8015	05/19/12	5
TPH (GC/FID) High Fraction	380	4.0	mg/kg	3546/DRO	05/22/12	1
Surrogate recovery(%)						
o-Terphenyl	96.4		% Rec.	3546/DRO	05/22/12	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	0.0088	0.0060	mg/kg	8270C-SIM	05/24/12	1
Acenaphthene	0.012	0.0060	mg/kg	8270C-SIM	05/24/12	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	05/24/12	1
Benzo(a)anthracene	0.10	0.012	mg/kg	8270C-SIM	05/24/12	2
Benzo(a)pyrene	0.0078	0.0060	mg/kg	8270C-SIM	05/24/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L576198-01 (PH) - 8.4@19.9c



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REPORT OF ANALYSIS

Chris Hines / Matt Kasten
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

May 24, 2012

Date Received : May 19, 2012
Description : J16W Cuttings

Sample ID : J16W-CUT1-051812

Collected By : CJB
Collection Date : 05/18/12 11:15

ESC Sample # : L576198-01

Site ID :

Project # : WA-000133-8893

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	0.012	0.0060	mg/kg	8270C-SIM	05/24/12	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	05/24/12	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	05/24/12	1
Chrysene	0.024	0.012	mg/kg	8270C-SIM	05/24/12	2
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	05/24/12	1
Fluoranthene	0.014	0.0060	mg/kg	8270C-SIM	05/24/12	1
Fluorene	0.043	0.0060	mg/kg	8270C-SIM	05/24/12	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	05/24/12	1
Naphthalene	0.14	0.0060	mg/kg	8270C-SIM	05/24/12	1
Phenanthrene	0.12	0.0060	mg/kg	8270C-SIM	05/24/12	1
Pyrene	0.012	0.012	mg/kg	8270C-SIM	05/24/12	2
1-Methylnaphthalene	0.066	0.0060	mg/kg	8270C-SIM	05/24/12	1
2-Methylnaphthalene	0.26	0.0060	mg/kg	8270C-SIM	05/24/12	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	05/24/12	1
Surrogate Recovery						
Nitrobenzene-d5	154.		% Rec.	8270C-SIM	05/24/12	1
2-Fluorobiphenyl	56.1		% Rec.	8270C-SIM	05/24/12	1
p-Terphenyl-d14	103.		% Rec.	8270C-SIM	05/24/12	2

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 05/24/12 17:01 Printed: 05/24/12 17:03
L576198-01 (PH) - 8.4@19.9c

REPORT OF ANALYSIS

Chris Hines / Matt Kasten
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

May 24, 2012

Date Received : May 19, 2012
Description : J16W Cuttings
Sample ID : J16W-CUT2-051812
Collected By : CJB
Collection Date : 05/18/12 11:34

ESC Sample # : L576198-02

Site ID :

Project # : WA-000133-8893

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	3.4	1.0	mg/kg	6010B	05/22/12	1
Benzene	0.0034	0.0025	mg/kg	8021/8015	05/19/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	05/19/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	05/19/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	05/19/12	5
TPH (GC/FID) Low Fraction	1.0	0.50	mg/kg	GRO	05/19/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	94.5		% Rec.	8021/8015	05/19/12	5
a,a,a-Trifluorotoluene(PID)	92.6		% Rec.	8021/8015	05/19/12	5
TPH (GC/FID) High Fraction	220	4.0	mg/kg	3546/DRO	05/22/12	1
Surrogate recovery(%)						
o-Terphenyl	66.1		% Rec.	3546/DRO	05/22/12	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	0.0085	0.0060	mg/kg	8270C-SIM	05/24/12	1
Acenaphthene	0.0066	0.0060	mg/kg	8270C-SIM	05/24/12	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	05/24/12	1
Benzo(a)anthracene	0.11	0.012	mg/kg	8270C-SIM	05/24/12	2
Benzo(a)pyrene	0.0067	0.0060	mg/kg	8270C-SIM	05/24/12	1
Benzo(b)fluoranthene	0.0094	0.0060	mg/kg	8270C-SIM	05/24/12	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	05/24/12	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	05/24/12	1
Chrysene	0.021	0.012	mg/kg	8270C-SIM	05/24/12	2
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	05/24/12	1
Fluoranthene	0.0062	0.0060	mg/kg	8270C-SIM	05/24/12	1
Fluorene	0.039	0.0060	mg/kg	8270C-SIM	05/24/12	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	05/24/12	1
Naphthalene	0.13	0.0060	mg/kg	8270C-SIM	05/24/12	1
Phenanthrene	0.10	0.0060	mg/kg	8270C-SIM	05/24/12	1
Pyrene	0.013	0.012	mg/kg	8270C-SIM	05/24/12	2
1-Methylnaphthalene	0.067	0.0060	mg/kg	8270C-SIM	05/24/12	1
2-Methylnaphthalene	0.25	0.0060	mg/kg	8270C-SIM	05/24/12	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	05/24/12	1
Surrogate Recovery						
Nitrobenzene-d5	165.		% Rec.	8270C-SIM	05/24/12	1
2-Fluorobiphenyl	55.9		% Rec.	8270C-SIM	05/24/12	1
p-Terphenyl-d14	114.		% Rec.	8270C-SIM	05/24/12	2

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 05/24/12 17:01 Printed: 05/24/12 17:03

REPORT OF ANALYSIS

Chris Hines / Matt Kasten
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

May 24, 2012

Date Received : May 19, 2012
Description : J16W Cuttings

Sample ID : J16W-CUT3-051812

Collected By : CJB
Collection Date : 05/18/12 11:55

ESC Sample # : L576198-03

Site ID :

Project # : WA-000133-8893

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	2.8	1.0	mg/kg	6010B	05/22/12	1
Benzene	0.0054	0.0025	mg/kg	8021/8015	05/19/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	05/19/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	05/19/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	05/19/12	5
TPH (GC/FID) Low Fraction	1.8	0.50	mg/kg	GRO	05/19/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	93.7		% Rec.	8021/8015	05/19/12	5
a,a,a-Trifluorotoluene(PID)	92.4		% Rec.	8021/8015	05/19/12	5
TPH (GC/FID) High Fraction	380	4.0	mg/kg	3546/DRO	05/22/12	1
Surrogate recovery(%)						
o-Terphenyl	71.8		% Rec.	3546/DRO	05/22/12	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	0.0071	0.0060	mg/kg	8270C-SIM	05/24/12	1
Acenaphthene	0.0092	0.0060	mg/kg	8270C-SIM	05/24/12	1
Acenaphthylene	0.0063	0.0060	mg/kg	8270C-SIM	05/24/12	1
Benzo(a)anthracene	0.076	0.012	mg/kg	8270C-SIM	05/24/12	2
Benzo(a)pyrene	0.0066	0.0060	mg/kg	8270C-SIM	05/24/12	1
Benzo(b)fluoranthene	0.010	0.0060	mg/kg	8270C-SIM	05/24/12	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	05/24/12	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	05/24/12	1
Chrysene	0.018	0.012	mg/kg	8270C-SIM	05/24/12	2
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	05/24/12	1
Fluoranthene	0.025	0.0060	mg/kg	8270C-SIM	05/24/12	1
Fluorene	0.037	0.0060	mg/kg	8270C-SIM	05/24/12	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	05/24/12	1
Naphthalene	0.11	0.0060	mg/kg	8270C-SIM	05/24/12	1
Phenanthrene	0.094	0.0060	mg/kg	8270C-SIM	05/24/12	1
Pyrene	0.015	0.012	mg/kg	8270C-SIM	05/24/12	2
1-Methylnaphthalene	0.054	0.0060	mg/kg	8270C-SIM	05/24/12	1
2-Methylnaphthalene	0.20	0.0060	mg/kg	8270C-SIM	05/24/12	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	05/24/12	1
Surrogate Recovery						
Nitrobenzene-d5	170.		% Rec.	8270C-SIM	05/24/12	1
2-Fluorobiphenyl	58.8		% Rec.	8270C-SIM	05/24/12	1
p-Terphenyl-d14	153.		% Rec.	8270C-SIM	05/24/12	2

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 05/24/12 17:01 Printed: 05/24/12 17:03

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L576198-01	WG594076	SAMP	Nitrobenzene-d5	R2183354	J1
	WG593752	SAMP	pH	R2180073	T8
	WG593723	SAMP	ORP	R2178973	T8
L576198-02	WG594076	SAMP	Nitrobenzene-d5	R2183354	J1
L576198-03	WG594076	SAMP	Nitrobenzene-d5	R2183354	J1
	WG594076	SAMP	p-Terphenyl-d14	R2183354	J1

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
05/24/12 at 17:03:54

TSR Signing Reports: 358
R4 - Rush: Three Day

Try not to report benzene as BDL above a 250x dilution. ONLY log soil samples under this account. Waters get logged under ENCRCO.

Sample: L576198-01 Account: ENCANACO Received: 05/19/12 09:00 Due Date: 05/24/12 00:00 RPT Date: 05/24/12 17:01

Sample: L576198-02 Account: ENCANACO Received: 05/19/12 09:00 Due Date: 05/24/12 00:00 RPT Date: 05/24/12 17:01

Sample: L576198-03 Account: ENCANACO Received: 05/19/12 09:00 Due Date: 05/24/12 00:00 RPT Date: 05/24/12 17:01



YOUR LAB OF CHOICE

EnCana Oil & Gas Inc. - CO
Chris Hines / Matt Kasten
2717 County Road 215, Suite 100

Parachute, CO 81635

Quality Assurance Report
Level II

L576198

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Tax I.D. 62-0814289

Est. 1970

May 24, 2012

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/kg			WG593670	05/19/12 14:23
Ethylbenzene	< .0005	mg/kg			WG593670	05/19/12 14:23
Toluene	< .005	mg/kg			WG593670	05/19/12 14:23
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG593670	05/19/12 14:23
Total Xylene	< .0015	mg/kg			WG593670	05/19/12 14:23
a,a,a-Trifluorotoluene(FID)		% Rec.	93.59	59-128	WG593670	05/19/12 14:23
a,a,a-Trifluorotoluene(PID)		% Rec.	91.89	54-144	WG593670	05/19/12 14:23
Specific Conductance	2.09	umhos/cm			WG593724	05/21/12 13:41
pH	6.70	su			WG593752	05/22/12 09:30
TPH (GC/FID) High Fraction	< 4	ppm			WG593852	05/21/12 23:11
o-Terphenyl		% Rec.	71.21	50-150	WG593852	05/21/12 23:11
TPH (GC/FID) High Fraction	< 4	ppm			WG593921	05/22/12 09:25
o-Terphenyl		% Rec.	90.46	50-150	WG593921	05/22/12 09:25
Mercury	< .02	mg/kg			WG593871	05/22/12 14:53
Arsenic	< 1	mg/kg			WG593900	05/22/12 14:40
Barium	< .25	mg/kg			WG593900	05/22/12 14:40
Cadmium	< .25	mg/kg			WG593900	05/22/12 14:40
Chromium	< .5	mg/kg			WG593900	05/22/12 14:40
Copper	< 1	mg/kg			WG593900	05/22/12 14:40
Lead	< .25	mg/kg			WG593900	05/22/12 14:40
Nickel	< 1	mg/kg			WG593900	05/22/12 14:40
Selenium	< 1	mg/kg			WG593900	05/22/12 14:40
Zinc	< 1.5	mg/kg			WG593900	05/22/12 14:40
Silver	< .5	mg/kg			WG593900	05/23/12 11:04
1-Methylnaphthalene	< .006	mg/kg			WG594076	05/23/12 19:35
2-Chloronaphthalene	< .006	mg/kg			WG594076	05/23/12 19:35
2-Methylnaphthalene	< .006	mg/kg			WG594076	05/23/12 19:35
Acenaphthene	< .006	mg/kg			WG594076	05/23/12 19:35
Acenaphthylene	< .006	mg/kg			WG594076	05/23/12 19:35
Anthracene	< .006	mg/kg			WG594076	05/23/12 19:35
Benzo(a)anthracene	< .006	mg/kg			WG594076	05/23/12 19:35
Benzo(a)pyrene	< .006	mg/kg			WG594076	05/23/12 19:35
Benzo(b)fluoranthene	< .006	mg/kg			WG594076	05/23/12 19:35
Benzo(g,h,i)perylene	< .006	mg/kg			WG594076	05/23/12 19:35
Benzo(k)fluoranthene	< .006	mg/kg			WG594076	05/23/12 19:35
Chrysene	< .006	mg/kg			WG594076	05/23/12 19:35
Dibenz(a,h)anthracene	< .006	mg/kg			WG594076	05/23/12 19:35
Fluoranthene	< .006	mg/kg			WG594076	05/23/12 19:35
Fluorene	< .006	mg/kg			WG594076	05/23/12 19:35
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG594076	05/23/12 19:35
Naphthalene	< .006	mg/kg			WG594076	05/23/12 19:35
Phenanthrene	< .006	mg/kg			WG594076	05/23/12 19:35
Pyrene	< .006	mg/kg			WG594076	05/23/12 19:35
2-Fluorobiphenyl		% Rec.	72.61	34-129	WG594076	05/23/12 19:35
Nitrobenzene-d5		% Rec.	68.63	14-141	WG594076	05/23/12 19:35

* Performance of this Analyte is outside of established criteria.

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EnCana Oil & Gas Inc. - CO
Chris Hines / Matt Kasten
2717 County Road 215, Suite 100

Parachute, CO 81635

Quality Assurance Report
Level II

L576198

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

May 24, 2012

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
p-Terphenyl-d14			% Rec. 79.49	25-139		05/23/12 19:35
Chromium,Hexavalent	< 2	mg/kg			WG593917	05/24/12 12:33

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Specific Conductance	umhos/cm	1300	1200	6.45	20	L576009-15	WG593724
Specific Conductance	umhos/cm	2400	2600	7.58	20	L576198-01	WG593724
ORP	mV	200.	190.	5.13	20	L575792-14	WG593723
ORP	mV	79.0	86.0	8.48	20	L576198-01	WG593723
pH	su	8.30	8.20	1.09*	1	L575833-01	WG593752
pH	su	8.30	8.40	0.957	1	L576198-01	WG593752
Mercury	mg/kg	0	0	0	20	L576197-10	WG593871
Arsenic	mg/kg	6.00	7.40	20.4*	20	L576317-01	WG593900
Barium	mg/kg	160.	160.	0	20	L576317-01	WG593900
Cadmium	mg/kg	0.200	0.110	59.0*	20	L576317-01	WG593900
Chromium	mg/kg	26.0	26.0	1.15	20	L576317-01	WG593900
Copper	mg/kg	10.0	9.91	0.904	20	L576317-01	WG593900
Lead	mg/kg	11.0	12.0	5.13	20	L576317-01	WG593900
Nickel	mg/kg	14.0	14.1	2.80	20	L576317-01	WG593900
Zinc	mg/kg	42.0	40.7	3.62	20	L576317-01	WG593900
Selenium	mg/kg	0	0	0	20	L576317-01	WG593900
Silver	mg/kg	0	0	0	20	L576317-01	WG593900
Chromium,Hexavalent	mg/kg	0	0	0	20	L576182-01	WG593917
Chromium,Hexavalent	mg/kg	0	0	0	20	L576373-07	WG593917

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/kg	.05	0.0440	87.9	76-113	WG593670
Ethylbenzene	mg/kg	.05	0.0443	88.6	78-115	WG593670
Toluene	mg/kg	.05	0.0434	86.8	76-114	WG593670
Total Xylene	mg/kg	.15	0.134	89.6	81-118	WG593670
a,a,a-Trifluorotoluene(PID)				92.19	54-144	WG593670
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.08	110.	67-135	WG593670
a,a,a-Trifluorotoluene(FID)				98.64	59-128	WG593670
Specific Conductance	umhos/cm	495	491.	99.2	85-115	WG593724
ORP	mV	228	226.	99.1	95.6-104.	WG593723
pH	su	5.7	5.70	100.	98-101	WG593752
TPH (GC/FID) High Fraction	ppm	60	45.5	75.8	50-150	WG593852
o-Terphenyl				74.15	50-150	WG593852

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L576198

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Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
TPH (GC/FID) High Fraction	ppm	60	46.6	77.7	50-150	WG593921
o-Terphenyl				83.86	50-150	WG593921
Mercury	mg/kg	3.77	4.01	106.	71.6-128	WG593871
Arsenic	mg/kg	92.6	89.4	96.5	82.9-117	WG593900
Barium	mg/kg	169	177.	105.	82.8-117	WG593900
Cadmium	mg/kg	61.8	60.3	97.6	83.3-117	WG593900
Chromium	mg/kg	71.3	71.4	100.	81.8-118	WG593900
Copper	mg/kg	81.2	81.4	100.	83.9-116	WG593900
Lead	mg/kg	92.4	93.3	101.	83.3-117	WG593900
Nickel	mg/kg	59.1	53.0	89.7	83.8-116	WG593900
Selenium	mg/kg	89.5	81.7	91.3	79-121	WG593900
Zinc	mg/kg	141	143.	101.	80.9-119	WG593900
Silver	mg/kg	34.4	31.3	91.0	66.3-134	WG593900
1-Methylnaphthalene	mg/kg	.033	0.0239	72.5	48-113	WG594076
2-Chloronaphthalene	mg/kg	.033	0.0216	65.5	51-114	WG594076
2-Methylnaphthalene	mg/kg	.033	0.0236	71.6	44-109	WG594076
Acenaphthene	mg/kg	.033	0.0240	72.9	52-108	WG594076
Acenaphthylene	mg/kg	.033	0.0225	68.2	51-110	WG594076
Anthracene	mg/kg	.033	0.0239	72.3	58-120	WG594076
Benzo(a)anthracene	mg/kg	.033	0.0262	79.5	54-110	WG594076
Benzo(a)pyrene	mg/kg	.033	0.0287	87.1	56-118	WG594076
Benzo(b)fluoranthene	mg/kg	.033	0.0303	92.0	55-114	WG594076
Benzo(g,h,i)perylene	mg/kg	.033	0.0269	81.5	48-130	WG594076
Benzo(k)fluoranthene	mg/kg	.033	0.0256	77.5	55-122	WG594076
Chrysene	mg/kg	.033	0.0254	76.9	57-118	WG594076
Dibenz(a,h)anthracene	mg/kg	.033	0.0302	91.5	53-122	WG594076
Fluoranthene	mg/kg	.033	0.0276	83.5	58-118	WG594076
Fluorene	mg/kg	.033	0.0249	75.5	54-109	WG594076
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0290	88.0	51-125	WG594076
Naphthalene	mg/kg	.033	0.0217	65.8	45-105	WG594076
Phenanthrene	mg/kg	.033	0.0231	70.0	53-114	WG594076
Pyrene	mg/kg	.033	0.0244	74.0	53-121	WG594076
2-Fluorobiphenyl				72.31	34-129	WG594076
Nitrobenzene-d5				66.19	14-141	WG594076
p-Terphenyl-d14				83.97	25-139	WG594076
Chromium,Hexavalent	mg/kg	150	139.	92.7	50-150	WG593917

Analyte	Units	Laboratory Control Sample Duplicate		%Rec	Limit	RPD	Limit	Batch
		Result	Ref					
Benzene	mg/kg	0.0453	0.0440	90.0	76-113	2.92	20	WG593670
Ethylbenzene	mg/kg	0.0453	0.0443	90.0	78-115	2.15	20	WG593670
Toluene	mg/kg	0.0443	0.0434	88.0	76-114	2.02	20	WG593670
Total Xylene	mg/kg	0.137	0.134	92.0	81-118	2.30	20	WG593670
a,a,a-Trifluorotoluene(PID)				92.11	54-144			WG593670
TPH (GC/FID) Low Fraction	mg/kg	5.96	6.08	108.	67-135	1.97	20	WG593670
a,a,a-Trifluorotoluene(FID)				97.93	59-128			WG593670

Specific Conductance umhos/ 492. 491. 99.0 85-115 0.203 20 WG593724

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Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
ORP	mV	250.	226.	110*	95.6-104.	10.1	20	WG593723
pH	su	5.70	5.70	100.	98-101	0	20	WG593752
TPH (GC/FID) High Fraction o-Terphenyl	ppm	43.6	45.5	73.0 71.57	50-150 50-150	4.25	23	WG593852 WG593852
TPH (GC/FID) High Fraction o-Terphenyl	ppm	48.1	46.6	80.0 86.00	50-150 50-150	3.15	25	WG593921 WG593921
1-Methylnaphthalene	mg/kg	0.0202	0.0239	61.0	48-113	17.0	24	WG594076
2-Chloronaphthalene	mg/kg	0.0182	0.0216	55.0	51-114	17.0	24	WG594076
2-Methylnaphthalene	mg/kg	0.0196	0.0236	59.0	44-109	18.4	24	WG594076
Acenaphthene	mg/kg	0.0205	0.0240	62.0	52-108	16.1	22	WG594076
Acenaphthylene	mg/kg	0.0192	0.0225	58.0	51-110	16.0	21	WG594076
Anthracene	mg/kg	0.0210	0.0239	64.0	58-120	12.8	20	WG594076
Benzo(a)anthracene	mg/kg	0.0236	0.0262	72.0	54-110	10.6	22	WG594076
Benzo(a)pyrene	mg/kg	0.0261	0.0287	79.0	56-118	9.74	21	WG594076
Benzo(b)fluoranthene	mg/kg	0.0260	0.0303	79.0	55-114	15.3	20	WG594076
Benzo(g,h,i)perylene	mg/kg	0.0249	0.0269	75.0	48-130	7.70	20	WG594076
Benzo(k)fluoranthene	mg/kg	0.0244	0.0256	74.0	55-122	4.64	25	WG594076
Chrysene	mg/kg	0.0224	0.0254	68.0	57-118	12.3	20	WG594076
Dibenz(a,h)anthracene	mg/kg	0.0276	0.0302	84.0	53-122	8.93	20	WG594076
Fluoranthene	mg/kg	0.0247	0.0276	75.0	58-118	10.8	20	WG594076
Fluorene	mg/kg	0.0215	0.0249	65.0	54-109	14.7	20	WG594076
Indeno(1,2,3-cd)pyrene	mg/kg	0.0266	0.0290	80.0	51-125	8.80	21	WG594076
Naphthalene	mg/kg	0.0183	0.0217	55.0	45-105	17.2	24	WG594076
Phenanthrene	mg/kg	0.0204	0.0231	62.0	53-114	12.3	20	WG594076
Pyrene	mg/kg	0.0218	0.0244	66.0	53-121	11.3	20	WG594076
2-Fluorobiphenyl				61.52	34-129			WG594076
Nitrobenzene-d5				56.39	14-141			WG594076
p-Terphenyl-d14				74.97	25-139			WG594076
Chromium,Hexavalent	mg/kg	130.	139.	87.0	50-150	6.69	20	WG593917

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
Benzene	mg/kg	0.206	0	.05	82.4	32-137	L576178-05	WG593670
Ethylbenzene	mg/kg	0.196	0.00583	.05	75.9	10-150	L576178-05	WG593670
Toluene	mg/kg	0.200	0.0786	.05	48.5	20-142	L576178-05	WG593670
Total Xylene	mg/kg	0.591	0.0318	.15	74.6	16-141	L576178-05	WG593670
a,a,a-Trifluorotoluene(PID)					91.74	54-144		WG593670
TPH (GC/FID) Low Fraction	mg/kg	24.7	0	5.5	89.8	55-109	L576084-04	WG593670
a,a,a-Trifluorotoluene(FID)					95.18	59-128		WG593670
TPH (GC/FID) High Fraction o-Terphenyl	ppm	40.0	0.157	60	66.4 67.48	50-150 50-150	L575872-11	WG593852 WG593852
TPH (GC/FID) High Fraction o-Terphenyl	ppm	48.8	3.80	60	75.0 75.35	50-150 50-150	L575706-02	WG593921 WG593921

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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Mercury	mg/kg	0.298	0	.25	119.	70-130	L576197-10	WG593871
Arsenic	mg/kg	48.6	7.40	50	82.4	75-125	L576317-01	WG593900
Barium	mg/kg	214.	160.	50	108.	75-125	L576317-01	WG593900
Cadmium	mg/kg	46.1	0.110	50	92.0	75-125	L576317-01	WG593900
Chromium	mg/kg	72.6	26.0	50	93.2	75-125	L576317-01	WG593900
Copper	mg/kg	56.4	9.91	50	93.0	75-125	L576317-01	WG593900
Lead	mg/kg	56.6	12.0	50	89.2	75-125	L576317-01	WG593900
Nickel	mg/kg	55.4	14.1	50	82.6	75-125	L576317-01	WG593900
Zinc	mg/kg	86.9	40.7	50	92.4	75-125	L576317-01	WG593900
Selenium	mg/kg	38.3	0	10	76.6	75-125	L576317-01	WG593900
Arsenic	mg/kg	64.1	17.0	50	94.2	75-125	L575982-01	WG593900
Barium	mg/kg	1100	1000	50	200.*	75-125	L575982-01	WG593900
Cadmium	mg/kg	88.5	45.0	50	87.0	75-125	L575982-01	WG593900
Chromium	mg/kg	249.	220.	50	58.0*	75-125	L575982-01	WG593900
Lead	mg/kg	1500	1400	50	200.*	75-125	L575982-01	WG593900
Selenium	mg/kg	53.4	5.80	50	95.2	75-125	L575982-01	WG593900
Silver	mg/kg	42.8	0	50	85.6	75-125	L576317-01	WG593900
1-Methylnaphthalene	mg/kg	0.0252	0	.033	76.4	25-155	L575759-03	WG594076
2-Chloronaphthalene	mg/kg	0.0224	0	.033	68.0	31-153	L575759-03	WG594076
2-Methylnaphthalene	mg/kg	0.0247	0	.033	74.7	22-172	L575759-03	WG594076
Acenaphthene	mg/kg	0.0247	0	.033	75.0	43-133	L575759-03	WG594076
Acenaphthylene	mg/kg	0.0232	0	.033	70.2	42-146	L575759-03	WG594076
Anthracene	mg/kg	0.0230	0	.033	69.7	38-153	L575759-03	WG594076
Benzo(a)anthracene	mg/kg	0.0248	0	.033	75.0	31-142	L575759-03	WG594076
Benzo(a)pyrene	mg/kg	0.0269	0	.033	81.4	26-152	L575759-03	WG594076
Benzo(b)fluoranthene	mg/kg	0.0256	0	.033	77.5	10-188	L575759-03	WG594076
Benzo(g,h,i)perylene	mg/kg	0.0238	0	.033	72.2	10-176	L575759-03	WG594076
Benzo(k)fluoranthene	mg/kg	0.0243	0	.033	73.7	22-163	L575759-03	WG594076
Chrysene	mg/kg	0.0234	0	.033	70.8	26-146	L575759-03	WG594076
Dibenz(a,h)anthracene	mg/kg	0.0274	0	.033	83.0	10-160	L575759-03	WG594076
Fluoranthene	mg/kg	0.0269	0	.033	81.6	23-160	L575759-03	WG594076
Fluorene	mg/kg	0.0256	0	.033	77.5	44-143	L575759-03	WG594076
Indeno(1,2,3-cd)pyrene	mg/kg	0.0259	0	.033	78.3	10-157	L575759-03	WG594076
Naphthalene	mg/kg	0.0226	0	.033	68.5	22-156	L575759-03	WG594076
Phenanthrene	mg/kg	0.0240	0	.033	72.7	23-164	L575759-03	WG594076
Pyrene	mg/kg	0.0239	0	.033	72.4	12-170	L575759-03	WG594076
2-Fluorobiphenyl					77.00	34-129		WG594076
Nitrobenzene-d5					68.15	14-141		WG594076
p-Terphenyl-d14					84.15	25-139		WG594076
Chromium, Hexavalent	mg/kg	5.20	0	20	26.0*	50-150	L576279-01	WG593917

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Benzene	mg/kg	0.200	0.206	80.1	32-137	2.89	39	L576178-05	WG593670
Ethylbenzene	mg/kg	0.183	0.196	71.0	10-150	6.43	44	L576178-05	WG593670
Toluene	mg/kg	0.187	0.200	43.5	20-142	6.41	42	L576178-05	WG593670
Total Xylene	mg/kg	0.555	0.591	69.8	16-141	6.23	46	L576178-05	WG593670
a,a,a-Trifluorotoluene(PID)				92.34	54-144				WG593670
TPH (GC/FID) Low Fraction	mg/kg	23.0	24.7	83.7	55-109	6.99	20	L576084-04	WG593670
a,a,a-Trifluorotoluene(FID)				95.10	59-128				WG593670

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Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
TPH (GC/FID) High Fraction	ppm	41.9	40.0	69.5	50-150	4.55	40	L575872-11	WG593852
o-Terphenyl				70.90	50-150				WG593852
TPH (GC/FID) High Fraction	ppm	51.1	48.8	78.8	50-150	4.67	25	L575706-02	WG593921
o-Terphenyl				83.17	50-150				WG593921
Mercury	mg/kg	0.252	0.298	101.	70-130	16.7	20	L576197-10	WG593871
Arsenic	mg/kg	49.8	48.6	84.8	75-125	2.44	20	L576317-01	WG593900
Barium	mg/kg	210.	214.	100.	75-125	1.89	20	L576317-01	WG593900
Cadmium	mg/kg	45.6	46.1	91.0	75-125	1.09	20	L576317-01	WG593900
Chromium	mg/kg	72.8	72.6	93.6	75-125	0.275	20	L576317-01	WG593900
Copper	mg/kg	56.3	56.4	92.8	75-125	0.177	20	L576317-01	WG593900
Lead	mg/kg	57.3	56.6	90.6	75-125	1.23	20	L576317-01	WG593900
Nickel	mg/kg	55.7	55.4	83.2	75-125	0.540	20	L576317-01	WG593900
Zinc	mg/kg	89.1	86.9	96.8	75-125	2.50	20	L576317-01	WG593900
Selenium	mg/kg	44.5	38.3	89.0	75-125	15.0	20	L576317-01	WG593900
Arsenic	mg/kg	58.9	64.1	83.8	75-125	8.46	20	L575982-01	WG593900
Barium	mg/kg	1150	1100	300.*	75-125	4.44	20	L575982-01	WG593900
Cadmium	mg/kg	76.4	88.5	62.8*	75-125	14.7	20	L575982-01	WG593900
Chromium	mg/kg	213.	249.	0*	75-125	15.6	20	L575982-01	WG593900
Lead	mg/kg	1570	1500	340.*	75-125	4.56	20	L575982-01	WG593900
Selenium	mg/kg	52.1	53.4	92.6	75-125	2.46	20	L575982-01	WG593900
Silver	mg/kg	42.3	42.8	84.6	75-125	1.18	20	L576317-01	WG593900
1-Methylnaphthalene	mg/kg	0.0248	0.0252	75.1	25-155	1.73	27	L575759-03	WG594076
2-Chloronaphthalene	mg/kg	0.0219	0.0224	66.4	31-153	2.28	22	L575759-03	WG594076
2-Methylnaphthalene	mg/kg	0.0242	0.0247	73.3	22-172	1.96	29	L575759-03	WG594076
Acenaphthene	mg/kg	0.0240	0.0247	72.8	43-133	2.90	26	L575759-03	WG594076
Acenaphthylene	mg/kg	0.0232	0.0232	70.4	42-146	0.297	22	L575759-03	WG594076
Anthracene	mg/kg	0.0211	0.0230	63.8	38-153	8.87	27	L575759-03	WG594076
Benzo(a)anthracene	mg/kg	0.0227	0.0248	68.7	31-142	8.75	31	L575759-03	WG594076
Benzo(a)pyrene	mg/kg	0.0229	0.0269	69.5	26-152	15.7	32	L575759-03	WG594076
Benzo(b)fluoranthene	mg/kg	0.0230	0.0256	69.7	10-188	10.6	33	L575759-03	WG594076
Benzo(g,h,i)perylene	mg/kg	0.0199	0.0238	60.2	10-176	18.2	30	L575759-03	WG594076
Benzo(k)fluoranthene	mg/kg	0.0205	0.0243	62.0	22-163	17.2	29	L575759-03	WG594076
Chrysene	mg/kg	0.0212	0.0234	64.1	26-146	9.86	30	L575759-03	WG594076
Dibenz(a,h)anthracene	mg/kg	0.0230	0.0274	69.7	10-160	17.4	39	L575759-03	WG594076
Fluoranthene	mg/kg	0.0236	0.0269	71.5	23-160	13.2	22	L575759-03	WG594076
Fluorene	mg/kg	0.0246	0.0256	74.5	44-143	3.91	23	L575759-03	WG594076
Indeno(1,2,3-cd)pyrene	mg/kg	0.0216	0.0259	65.6	10-157	17.7	40	L575759-03	WG594076
Naphthalene	mg/kg	0.0229	0.0226	69.2	22-156	1.09	27	L575759-03	WG594076
Phenanthrene	mg/kg	0.0241	0.0240	73.2	23-164	0.665	25	L575759-03	WG594076
Pyrene	mg/kg	0.0226	0.0239	68.4	12-170	5.62	24	L575759-03	WG594076
2-Fluorobiphenyl				78.52	34-129				WG594076
Nitrobenzene-d5				71.77	14-141				WG594076
p-Terphenyl-d14				83.03	25-139				WG594076
Chromium,Hexavalent	mg/kg	4.76	5.20	23.8*	50-150	8.84	20	L576279-01	WG593917

Batch number /Run number / Sample number cross reference

WG593670: R2177034: L576198-01 02 03

* Performance of this Analyte is outside of established criteria.

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



YOUR LAB OF CHOICE

EnCana Oil & Gas Inc. - CO
Chris Hines / Matt Kasten
2717 County Road 215, Suite 100

Parachute, CO 81635

Quality Assurance Report
Level II

L576198

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

May 24, 2012

WG593724: R2178934: L576198-01
WG593723: R2178973: L576198-01
WG593752: R2180073: L576198-01
WG593852: R2180215: L576198-01 02
WG593921: R2180233: L576198-03
WG593871: R2180934: L576198-01
WG593900: R2181173: L576198-01 02 03
WG593838: R2181373: L576198-01
WG594076: R2183354: L576198-01 02 03
WG593917: R2183713: L576198-01

* * Calculations are performed prior to rounding of reported values.

* Performance of this Analyte is outside of established criteria.

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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.