

				Organic Compounds in Soil (mg/kg [ppm])																			Inorganics in Soil			Metals in Soil (mg/kg [ppm])												
Allowable Concentration -->				500			0.17	85	100	175	1000	1000	0.22	0.22	2.2	0.022	22	0.022	1000	1000	0.22	23	1000		(<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
PL28	01/18/12	Cuttings	Composite 1	368.6	8.6	360	0.036	0.052	0.0037	0.03	0.008	0.011	BDL	BDL	BDL	BDL	0.043	BDL	0.0062	0.034	BDL	0.09	BDL	2.7	20	8.3	2.7	8000	0.32	7.6	BDL	10	4.9	0.023	5.7	1.4	BDL	30
PL28	01/18/12	Cuttings	Composite 2				0.0067	BDL	BDL	0.0092	BDL	BDL	BDL	BDL	BDL	BDL	0.027	BDL	0.008	0.022	BDL	0.092	BDL				1.8											
PL28	01/18/12	Cuttings	Composite 3				0.012	0.026	BDL	0.028	BDL	0.0066	0.025	BDL	BDL	BDL	BDL	BDL	0.014	0.027	BDL	0.084	BDL				1.8											



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

Report Summary

Thursday January 26, 2012

Report Number: L556540

Samples Received: 01/19/12

Client Project:

Description: PL28-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

January 26, 2012

Date Received : January 19, 2012
Description : PL28-Cuttings
Sample ID : PL28-CUT1-011812 10-12 IN
Collected By : Brennen Graff
Collection Date : 01/18/12 11:54

ESC Sample # : L556540-01

Site ID : PL28

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	10.	mg/kg	3060A/7196A	01/25/12	5
Chromium, Trivalent	BDL	10.	mg/kg	Calc.	01/21/12	1
ORP	27.		mV	2580	01/20/12	1
pH	8.3		su	9045D	01/23/12	1
Sodium Adsorption Ratio	20.			Calc.	01/23/12	1
Specific Conductance	2700		umhos/cm	9050AMod	01/21/12	1
Mercury	0.023	0.020	mg/kg	7471	01/23/12	1
Arsenic	2.7	1.0	mg/kg	6010B	01/21/12	1
Barium	8000	1.2	mg/kg	6010B	01/22/12	5
Cadmium	0.32	0.25	mg/kg	6010B	01/21/12	1
Chromium	7.6	0.50	mg/kg	6010B	01/21/12	1
Copper	10.	1.0	mg/kg	6010B	01/21/12	1
Lead	4.9	0.25	mg/kg	6010B	01/21/12	1
Nickel	5.7	1.0	mg/kg	6010B	01/21/12	1
Selenium	1.4	1.0	mg/kg	6010B	01/21/12	1
Silver	BDL	0.50	mg/kg	6010B	01/21/12	1
Zinc	30.	1.5	mg/kg	6010B	01/21/12	1
Benzene	0.036	0.0025	mg/kg	8021/8015	01/20/12	5
Toluene	0.052	0.025	mg/kg	8021/8015	01/20/12	5
Ethylbenzene	0.0037	0.0025	mg/kg	8021/8015	01/20/12	5
Total Xylene	0.030	0.0075	mg/kg	8021/8015	01/20/12	5
TPH (GC/FID) Low Fraction	8.6	0.50	mg/kg	GRO	01/20/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	97.4		% Rec.	8021/8015	01/20/12	5
a,a,a-Trifluorotoluene(PID)	95.2		% Rec.	8021/8015	01/20/12	5
TPH (GC/FID) High Fraction	360	4.0	mg/kg	3546/DRO	01/23/12	1
Surrogate recovery(%)						
o-Terphenyl	90.5		% Rec.	3546/DRO	01/23/12	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	0.011	0.0060	mg/kg	8270C-SIM	01/25/12	1
Acenaphthene	0.0081	0.0060	mg/kg	8270C-SIM	01/25/12	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L556540-01 (CR6) - Diluted due to sample color interference.
L556540-01 (PH) - 8.3@20.5c



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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

January 26, 2012

Date Received : January 19, 2012
Description : PL28-Cuttings
Sample ID : PL28-CUT1-011812 10-12 IN
Collected By : Brennen Graff
Collection Date : 01/18/12 11:54

ESC Sample # : L556540-01

Site ID : PL28

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Chrysene	0.043	0.0060	mg/kg	8270C-SIM	01/25/12	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Fluoranthene	0.0062	0.0060	mg/kg	8270C-SIM	01/25/12	1
Fluorene	0.034	0.0060	mg/kg	8270C-SIM	01/25/12	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Naphthalene	0.090	0.0060	mg/kg	8270C-SIM	01/25/12	1
Phenanthrene	0.064	0.0060	mg/kg	8270C-SIM	01/25/12	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
1-Methylnaphthalene	0.059	0.0060	mg/kg	8270C-SIM	01/25/12	1
2-Methylnaphthalene	0.22	0.0060	mg/kg	8270C-SIM	01/25/12	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Surrogate Recovery						
Nitrobenzene-d5	100.		% Rec.	8270C-SIM	01/25/12	1
2-Fluorobiphenyl	46.7		% Rec.	8270C-SIM	01/25/12	1
p-Terphenyl-d14	98.4		% Rec.	8270C-SIM	01/25/12	1

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: 01/26/12 15:10 Printed: 01/26/12 15:11

L556540-01 (CR6) - Diluted due to sample color interference.

L556540-01 (PH) - 8.3@20.5c

REPORT OF ANALYSIS

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

January 26, 2012

Date Received : January 19, 2012
Description : PL28-Cuttings
Sample ID : PL28-CUT2-011812 10-12 IN
Collected By : Brennen Graff
Collection Date : 01/18/12 12:47

ESC Sample # : L556540-02

Site ID : PL28

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	1.8	1.0	mg/kg	6010B	01/20/12	1
Benzene	0.0067	0.0025	mg/kg	8021B	01/20/12	5
Toluene	BDL	0.025	mg/kg	8021B	01/20/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021B	01/20/12	5
Total Xylene	0.0092	0.0075	mg/kg	8021B	01/20/12	5
Surrogate Recovery(%) a,a,a-Trifluorotoluene(PID)	75.9		% Rec.	8021B	01/20/12	5
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Chrysene	0.027	0.0060	mg/kg	8270C-SIM	01/25/12	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Fluoranthene	0.0080	0.0060	mg/kg	8270C-SIM	01/25/12	1
Fluorene	0.022	0.0060	mg/kg	8270C-SIM	01/25/12	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Naphthalene	0.092	0.0060	mg/kg	8270C-SIM	01/25/12	1
Phenanthrene	0.043	0.0060	mg/kg	8270C-SIM	01/25/12	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
1-Methylnaphthalene	0.057	0.0060	mg/kg	8270C-SIM	01/25/12	1
2-Methylnaphthalene	0.21	0.0060	mg/kg	8270C-SIM	01/25/12	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Surrogate Recovery						
Nitrobenzene-d5	152.		% Rec.	8270C-SIM	01/25/12	1
2-Fluorobiphenyl	50.0		% Rec.	8270C-SIM	01/25/12	1
p-Terphenyl-d14	154.		% Rec.	8270C-SIM	01/25/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

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EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

January 26, 2012

Date Received : January 19, 2012
Description : PL28-Cuttings
Sample ID : PL28-CUT3-011812 10-12 IN
Collected By : Brennen Graff
Collection Date : 01/18/12 13:15

ESC Sample # : L556540-03

Site ID : PL28

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	1.8	1.0	mg/kg	6010B	01/20/12	1
Benzene	0.012	0.0025	mg/kg	8021B	01/20/12	5
Toluene	0.026	0.025	mg/kg	8021B	01/20/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021B	01/20/12	5
Total Xylene	0.028	0.0075	mg/kg	8021B	01/20/12	5
Surrogate Recovery(%) a,a,a-Trifluorotoluene(PID)	82.4		% Rec.	8021B	01/20/12	5
Polynuclear Aromatic Hydrocarbons						
Anthracene	0.0066	0.0060	mg/kg	8270C-SIM	01/25/12	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Benzo(a)anthracene	0.025	0.0060	mg/kg	8270C-SIM	01/25/12	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Fluoranthene	0.014	0.0060	mg/kg	8270C-SIM	01/25/12	1
Fluorene	0.027	0.0060	mg/kg	8270C-SIM	01/25/12	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Naphthalene	0.084	0.0060	mg/kg	8270C-SIM	01/25/12	1
Phenanthrene	0.057	0.0060	mg/kg	8270C-SIM	01/25/12	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
1-Methylnaphthalene	0.056	0.0060	mg/kg	8270C-SIM	01/25/12	1
2-Methylnaphthalene	0.19	0.0060	mg/kg	8270C-SIM	01/25/12	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/25/12	1
Surrogate Recovery						
Nitrobenzene-d5	125.		% Rec.	8270C-SIM	01/25/12	1
2-Fluorobiphenyl	49.3		% Rec.	8270C-SIM	01/25/12	1
p-Terphenyl-d14	174.		% Rec.	8270C-SIM	01/25/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 01/26/12 15:10 Printed: 01/26/12 15:11

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L556540-01	WG574945	SAMP	Barium	R2008333	B
	WG574897	SAMP	ORP	R2007754	T8
	WG574945	SAMP	Chromium, Trivalent	R2008333	O
	WG575114	SAMP	Chromium, Hexavalent	R2011892	O
L556540-02	WG575481	SAMP	Nitrobenzene-d5	R2012412	J1
	WG575481	SAMP	p-Terphenyl-d14	R2012412	J1
L556540-03	WG575481	SAMP	p-Terphenyl-d14	R2012412	J1

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
B	(EPA) - The indicated compound was found in the associated method blank as well as the laboratory sample.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.
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
01/26/12 at 15:11:18

TSR Signing Reports: 358
R5 - Desired TAT

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

Sample: L556540-01 Account: ENCANACO Received: 01/19/12 09:00 Due Date: 01/26/12 00:00 RPT Date: 01/26/12 15:10

Sample: L556540-02 Account: ENCANACO Received: 01/19/12 09:00 Due Date: 01/26/12 00:00 RPT Date: 01/26/12 15:10

Sample: L556540-03 Account: ENCANACO Received: 01/19/12 09:00 Due Date: 01/26/12 00:00 RPT Date: 01/26/12 15:10



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EnCana Oil & Gas Inc. - CO
Chris Hines / Matt Kasten
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Quality Assurance Report
Level II

L556540

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Tax I.D. 62-0814289

Est. 1970

January 26, 2012

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Arsenic	< 1	mg/kg			WG574948	01/20/12 22:47
Arsenic	< 1	mg/kg			WG574945	01/21/12 11:24
Barium	< .25	mg/kg			WG574945	01/21/12 11:24
Cadmium	< .25	mg/kg			WG574945	01/21/12 11:24
Chromium	< .5	mg/kg			WG574945	01/21/12 11:24
Copper	< 1	mg/kg			WG574945	01/21/12 11:24
Lead	< .25	mg/kg			WG574945	01/21/12 11:24
Nickel	< 1	mg/kg			WG574945	01/21/12 11:24
Selenium	< 1	mg/kg			WG574945	01/21/12 11:24
Silver	< .5	mg/kg			WG574945	01/21/12 11:24
Zinc	< 1.5	mg/kg			WG574945	01/21/12 11:24
Specific Conductance	1.29	umhos/cm			WG575044	01/21/12 12:18
TPH (GC/FID) High Fraction	< 4	ppm			WG574931	01/23/12 12:25
o-Terphenyl		% Rec.	75.71	50-150	WG574931	01/23/12 12:25
pH	4.76	su			WG575118	01/23/12 13:37
Benzene	< .0005	mg/kg			WG574941	01/20/12 06:46
Ethylbenzene	< .0005	mg/kg			WG574941	01/20/12 06:46
Toluene	< .005	mg/kg			WG574941	01/20/12 06:46
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG574941	01/20/12 06:46
Total Xylene	< .0015	mg/kg			WG574941	01/20/12 06:46
a,a,a-Trifluorotoluene(FID)		% Rec.	95.20	59-128	WG574941	01/20/12 06:46
a,a,a-Trifluorotoluene(PID)		% Rec.	94.99	54-144	WG574941	01/20/12 06:46
Mercury	< .02	mg/kg			WG575054	01/24/12 08:42
Benzene	< .0005	mg/kg			WG574928	01/20/12 00:17
Ethylbenzene	< .0005	mg/kg			WG574928	01/20/12 00:17
Toluene	< .005	mg/kg			WG574928	01/20/12 00:17
Total Xylene	< .0015	mg/kg			WG574928	01/20/12 00:17
a,a,a-Trifluorotoluene(PID)		% Rec.	104.2	54-144	WG574928	01/20/12 00:17
Chromium,Hexavalent	< 2	mg/kg			WG575114	01/25/12 09:58
1-Methylnaphthalene	< .006	mg/kg			WG575481	01/25/12 12:58
2-Chloronaphthalene	< .006	mg/kg			WG575481	01/25/12 12:58
2-Methylnaphthalene	< .006	mg/kg			WG575481	01/25/12 12:58
Acenaphthene	< .006	mg/kg			WG575481	01/25/12 12:58
Acenaphthylene	< .006	mg/kg			WG575481	01/25/12 12:58
Anthracene	< .006	mg/kg			WG575481	01/25/12 12:58
Benzo(a)anthracene	< .006	mg/kg			WG575481	01/25/12 12:58
Benzo(a)pyrene	< .006	mg/kg			WG575481	01/25/12 12:58
Benzo(b)fluoranthene	< .006	mg/kg			WG575481	01/25/12 12:58
Benzo(g,h,i)perylene	< .006	mg/kg			WG575481	01/25/12 12:58
Benzo(k)fluoranthene	< .006	mg/kg			WG575481	01/25/12 12:58
Chrysene	< .006	mg/kg			WG575481	01/25/12 12:58

* 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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Chris Hines / Matt Kasten
2717 County Road 215, Suite 100

Parachute, CO 81635

Quality Assurance Report
Level II

L556540

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

January 26, 2012

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Dibenz(a,h)anthracene	< .006	mg/kg			WG575481	01/25/12 12:58
Fluoranthene	< .006	mg/kg			WG575481	01/25/12 12:58
Fluorene	< .006	mg/kg			WG575481	01/25/12 12:58
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG575481	01/25/12 12:58
Naphthalene	< .006	mg/kg			WG575481	01/25/12 12:58
Phenanthrene	< .006	mg/kg			WG575481	01/25/12 12:58
Pyrene	< .006	mg/kg			WG575481	01/25/12 12:58
2-Fluorobiphenyl		% Rec.	85.21	34-129	WG575481	01/25/12 12:58
Nitrobenzene-d5		% Rec.	88.29	14-141	WG575481	01/25/12 12:58
p-Terphenyl-d14		% Rec.	84.53	25-139	WG575481	01/25/12 12:58

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
ORP	mV	0	0	0	20	L556270-01	WG574897
ORP	mV	110.	110.	2.69	20	L556390-04	WG574897
Arsenic	mg/kg	8.50	9.06	5.91	20	L556542-14	WG574948
Arsenic	mg/kg	1.70	1.86	10.2	20	L556349-06	WG574945
Barium	mg/kg	49.0	50.4	3.02	20	L556349-06	WG574945
Cadmium	mg/kg	0	0.316	NA	20	L556349-06	WG574945
Chromium	mg/kg	13.0	13.2	1.53	20	L556349-06	WG574945
Copper	mg/kg	12.0	12.6	8.26	20	L556349-06	WG574945
Lead	mg/kg	4.10	4.00	1.73	20	L556349-06	WG574945
Nickel	mg/kg	11.0	11.8	7.93	20	L556349-06	WG574945
Selenium	mg/kg	0	0.187	NA	20	L556349-06	WG574945
Silver	mg/kg	0	0	0	20	L556349-06	WG574945
Zinc	mg/kg	31.0	31.1	1.29	20	L556349-06	WG574945
Specific Conductance	umhos/cm	2000	2200	10.0	20	L556263-01	WG575044
Specific Conductance	umhos/cm	3500	4000	13.3	20	L556759-02	WG575044
pH	su	7.40	7.40	0.678	1	L556201-01	WG575118
pH	su	12.0	12.0	3.28*	1	L556659-01	WG575118
Mercury	mg/kg	0.00510	0.00580	12.8	20	L556656-04	WG575054
Chromium,Hexavalent	mg/kg	0	0	0	20	L556390-07	WG575114
Chromium,Hexavalent	mg/kg	0	0	0	20	L556263-01	WG575114

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
ORP	mV	229	235.	103.	95.6-104.37	WG574897
Arsenic	mg/kg	92.6	89.8	97.0	82.9-117	WG574948
Arsenic	mg/kg	92.6	97.7	106.	82.9-117	WG574945
Barium	mg/kg	169	184.	109.	82.8-117	WG574945
Cadmium	mg/kg	61.8	61.5	99.5	83.3-117	WG574945

* Performance of this Analyte is outside of established criteria.
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Analyte	Units	Laboratory Control	Sample	% Rec	Limit	Batch
		Known Val	Result			
Chromium	mg/kg	71.3	80.0	112.	81.8-118	WG574945
Copper	mg/kg	81.2	87.4	108.	83.9-116	WG574945
Lead	mg/kg	92.4	92.9	101.	83.3-117	WG574945
Nickel	mg/kg	59.1	61.6	104.	83.8-116	WG574945
Selenium	mg/kg	89.5	91.3	102.	79-121	WG574945
Silver	mg/kg	34.4	35.8	104.	66.3-134	WG574945
Zinc	mg/kg	141	145.	103.	80.9-119	WG574945
Specific Conductance	umhos/cm	350	349.	99.7	85-115	WG575044
TPH (GC/FID) High Fraction	ppm	60	55.8	93.0	50-150	WG574931
o-Terphenyl				89.42	50-150	WG574931
pH	su	7.98	8.04	101.	98-101	WG575118
Benzene	mg/kg	.05	0.0459	91.8	76-113	WG574941
Ethylbenzene	mg/kg	.05	0.0457	91.3	78-115	WG574941
Toluene	mg/kg	.05	0.0496	99.2	76-114	WG574941
Total Xylene	mg/kg	.15	0.131	87.4	81-118	WG574941
a,a,a-Trifluorotoluene(PID)				94.25	54-144	WG574941
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.71	104.	67-135	WG574941
a,a,a-Trifluorotoluene(FID)				100.7	59-128	WG574941
Mercury	mg/kg	3.77	3.92	104.	71.6-128	WG575054
Benzene	mg/kg	.05	0.0514	103.	76-113	WG574928
Ethylbenzene	mg/kg	.05	0.0550	110.	78-115	WG574928
Toluene	mg/kg	.05	0.0517	103.	76-114	WG574928
Total Xylene	mg/kg	.15	0.159	106.	81-118	WG574928
a,a,a-Trifluorotoluene(PID)				84.35	54-144	WG574928
Chromium, Hexavalent	mg/kg	203	150.	73.9	50-150	WG575114
1-Methylnaphthalene	mg/kg	.033	0.0238	72.0	48-113	WG575481
2-Chloronaphthalene	mg/kg	.033	0.0245	74.2	51-114	WG575481
2-Methylnaphthalene	mg/kg	.033	0.0244	74.0	44-109	WG575481
Acenaphthene	mg/kg	.033	0.0219	66.4	52-108	WG575481
Acenaphthylene	mg/kg	.033	0.0228	69.1	51-110	WG575481
Anthracene	mg/kg	.033	0.0263	79.6	58-120	WG575481
Benzo(a)anthracene	mg/kg	.033	0.0260	78.8	54-110	WG575481
Benzo(a)pyrene	mg/kg	.033	0.0259	78.6	56-118	WG575481
Benzo(b)fluoranthene	mg/kg	.033	0.0278	84.4	55-114	WG575481
Benzo(g,h,i)perylene	mg/kg	.033	0.0311	94.2	48-130	WG575481
Benzo(k)fluoranthene	mg/kg	.033	0.0256	77.6	55-122	WG575481
Chrysene	mg/kg	.033	0.0280	84.8	57-118	WG575481
Dibenz(a,h)anthracene	mg/kg	.033	0.0298	90.3	53-122	WG575481
Fluoranthene	mg/kg	.033	0.0264	80.0	58-118	WG575481
Fluorene	mg/kg	.033	0.0237	71.8	54-109	WG575481
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0295	89.3	51-125	WG575481
Naphthalene	mg/kg	.033	0.0225	68.2	45-105	WG575481
Phenanthrene	mg/kg	.033	0.0244	74.1	53-114	WG575481

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Analyte	Units	Laboratory Control	Sample	% Rec	Limit	Batch
		Known Val	Result			
Pyrene	mg/kg	.033	0.0255	77.4	53-121	WG575481
2-Fluorobiphenyl				68.31	34-129	WG575481
Nitrobenzene-d5				70.71	14-141	WG575481
p-Terphenyl-d14				78.78	25-139	WG575481

Analyte	Units	Laboratory Control	Sample Duplicate	Limit	RPD	Limit	Batch
		Result	Ref %Rec				
ORP	mV	235.	235.	103.	95.6-104.37	0	WG574897
Specific Conductance	umhos/	349.	349.	100.	85-115	0	WG575044
TPH (GC/FID) High Fraction	ppm	60.0	55.8	100.	50-150	7.21	WG574931
o-Terphenyl				92.26	50-150		WG574931
pH	su	8.04	8.04	101.	98-101	0	WG575118
Benzene	mg/kg	0.0486	0.0459	97.0	76-113	5.66	WG574941
Ethylbenzene	mg/kg	0.0484	0.0457	97.0	78-115	5.78	WG574941
Toluene	mg/kg	0.0525	0.0496	105.	76-114	5.71	WG574941
Total Xylene	mg/kg	0.138	0.131	92.0	81-118	5.51	WG574941
a,a,a-Trifluorotoluene(PID)				94.95	54-144		WG574941
TPH (GC/FID) Low Fraction	mg/kg	5.96	5.71	108.	67-135	4.28	WG574941
a,a,a-Trifluorotoluene(FID)				101.3	59-128		WG574941
Benzene	mg/kg	0.0510	0.0514	102.	76-113	0.810	WG574928
Ethylbenzene	mg/kg	0.0531	0.0550	106.	78-115	3.57	WG574928
Toluene	mg/kg	0.0501	0.0517	100.	76-114	3.19	WG574928
Total Xylene	mg/kg	0.154	0.159	102.	81-118	3.50	WG574928
a,a,a-Trifluorotoluene(PID)				80.77	54-144		WG574928
Chromium, Hexavalent	mg/kg	158.	150.	78.0	50-150	5.19	WG575114
1-Methylnaphthalene	mg/kg	0.0256	0.0238	77.0	48-113	7.36	WG575481
2-Chloronaphthalene	mg/kg	0.0257	0.0245	78.0	51-114	4.98	WG575481
2-Methylnaphthalene	mg/kg	0.0259	0.0244	78.0	44-109	5.73	WG575481
Acenaphthene	mg/kg	0.0245	0.0219	74.0	52-108	11.1	WG575481
Acenaphthylene	mg/kg	0.0238	0.0228	72.0	51-110	4.35	WG575481
Anthracene	mg/kg	0.0246	0.0263	75.0	58-120	6.47	WG575481
Benzo(a)anthracene	mg/kg	0.0276	0.0260	83.0	54-110	5.77	WG575481
Benzo(a)pyrene	mg/kg	0.0253	0.0259	76.0	56-118	2.59	WG575481
Benzo(b)fluoranthene	mg/kg	0.0268	0.0278	81.0	55-114	3.91	WG575481
Benzo(g,h,i)perylene	mg/kg	0.0285	0.0311	86.0	48-130	8.58	WG575481
Benzo(k)fluoranthene	mg/kg	0.0255	0.0256	77.0	55-122	0.579	WG575481
Chrysene	mg/kg	0.0289	0.0280	88.0	57-118	3.24	WG575481
Dibenz(a,h)anthracene	mg/kg	0.0278	0.0298	84.0	53-122	6.73	WG575481
Fluoranthene	mg/kg	0.0262	0.0264	79.0	58-118	0.812	WG575481
Fluorene	mg/kg	0.0260	0.0237	79.0	54-109	9.46	WG575481
Indeno(1,2,3-cd)pyrene	mg/kg	0.0288	0.0295	87.0	51-125	2.37	WG575481
Naphthalene	mg/kg	0.0243	0.0225	74.0	45-105	7.88	WG575481
Phenanthrene	mg/kg	0.0253	0.0244	77.0	53-114	3.62	WG575481
Pyrene	mg/kg	0.0255	0.0255	77.0	53-121	0.0662	WG575481

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Analyte	Units	MS Res	Matrix Spike		TV	% Rec	Limit	Ref Samp	Batch
			Ref Res	TV					
2-Fluorobiphenyl				75.59		34-129			
Nitrobenzene-d5				71.12		14-141			
p-Terphenyl-d14				77.24		25-139			

Analyte	Units	MS Res	Matrix Spike		TV	% Rec	Limit	Ref Samp	Batch
			Ref Res	TV					
Arsenic	mg/kg	53.5	9.06	50	88.9	75-125	L556542-14	WG574948	
Arsenic	mg/kg	51.8	1.86	50	99.9	75-125	L556349-06	WG574945	
Barium	mg/kg	106.	50.4	50	111.	75-125	L556349-06	WG574945	
Cadmium	mg/kg	48.9	0.316	50	97.2	75-125	L556349-06	WG574945	
Chromium	mg/kg	67.6	13.2	50	109.	75-125	L556349-06	WG574945	
Copper	mg/kg	65.6	12.6	50	106.	75-125	L556349-06	WG574945	
Lead	mg/kg	52.0	4.00	50	96.0	75-125	L556349-06	WG574945	
Nickel	mg/kg	60.4	11.8	50	97.2	75-125	L556349-06	WG574945	
Selenium	mg/kg	48.6	0.187	50	96.8	75-125	L556349-06	WG574945	
Silver	mg/kg	51.7	0	50	103.	75-125	L556349-06	WG574945	
Zinc	mg/kg	82.3	31.1	50	102.	75-125	L556349-06	WG574945	
Benzene	mg/kg	0.226	0	.05	90.5	32-137	L556567-12	WG574941	
Ethylbenzene	mg/kg	0.216	0	.05	86.2	10-150	L556567-12	WG574941	
Toluene	mg/kg	0.243	0	.05	97.2	20-142	L556567-12	WG574941	
Total Xylene	mg/kg	0.628	0	.15	83.7	16-141	L556567-12	WG574941	
a,a,a-Trifluorotoluene(PID)					94.03	54-144		WG574941	
TPH (GC/FID) Low Fraction	mg/kg	22.3	0	5.5	80.9	55-109	L556567-12	WG574941	
a,a,a-Trifluorotoluene(FID)					98.32	59-128		WG574941	
TPH (GC/FID) High Fraction	ppm	53.3	0	60	88.9	50-150	L556567-04	WG574931	
o-Terphenyl					96.38	50-150		WG574931	
Mercury	mg/kg	0.244	0.00580	.25	95.3	70-130	L556656-04	WG575054	
Benzene	mg/kg	0.218	0.00270	.05	86.0	32-137	L556500-01	WG574928	
Ethylbenzene	mg/kg	0.214	0	.05	85.4	10-150	L556500-01	WG574928	
Toluene	mg/kg	0.207	0	.05	82.9	20-142	L556500-01	WG574928	
Total Xylene	mg/kg	0.614	0.00210	.15	81.6	16-141	L556500-01	WG574928	
a,a,a-Trifluorotoluene(PID)					69.83	54-144		WG574928	
Chromium,Hexavalent	mg/kg	13.8	0	20	69.0	50-150	L556327-01	WG575114	
1-Methylnaphthalene	mg/kg	0.0300	0.00725	.033	68.9	25-155	L556855-01	WG575481	
2-Chloronaphthalene	mg/kg	0.0295	0	.033	89.4	31-153	L556855-01	WG575481	
2-Methylnaphthalene	mg/kg	0.0361	0.00813	.033	84.6	22-172	L556855-01	WG575481	
Acenaphthene	mg/kg	0.0249	0	.033	75.5	43-133	L556855-01	WG575481	
Acenaphthylene	mg/kg	0.0287	0	.033	87.0	42-146	L556855-01	WG575481	
Anthracene	mg/kg	0.0283	0	.033	85.8	38-153	L556855-01	WG575481	
Benzo(a)anthracene	mg/kg	0.0262	0	.033	79.4	31-142	L556855-01	WG575481	
Benzo(a)pyrene	mg/kg	0.0257	0	.033	77.9	26-152	L556855-01	WG575481	
Benzo(b)fluoranthene	mg/kg	0.0265	0	.033	80.4	10-188	L556855-01	WG575481	
Benzo(g,h,i)perylene	mg/kg	0.0234	0	.033	70.8	10-176	L556855-01	WG575481	
Benzo(k)fluoranthene	mg/kg	0.0264	0	.033	79.9	22-163	L556855-01	WG575481	

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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Chrysene	mg/kg	0.0269	0	.033	81.4	26-146	L556855-01	WG575481
Dibenz(a,h)anthracene	mg/kg	0.0236	0	.033	71.4	10-160	L556855-01	WG575481
Fluoranthene	mg/kg	0.0333	0	.033	101.	23-160	L556855-01	WG575481
Fluorene	mg/kg	0.0296	0	.033	89.6	44-143	L556855-01	WG575481
Indeno(1,2,3-cd)pyrene	mg/kg	0.0241	0	.033	73.1	10-157	L556855-01	WG575481
Naphthalene	mg/kg	0.0757	0.0380	.033	114.	22-156	L556855-01	WG575481
Phenanthrene	mg/kg	0.0324	0.00680	.033	77.4	23-164	L556855-01	WG575481
Pyrene	mg/kg	0.0233	0	.033	70.6	12-170	L556855-01	WG575481
2-Fluorobiphenyl					76.96	34-129		WG575481
Nitrobenzene-d5					312.1*	14-141		WG575481
p-Terphenyl-d14					72.29	25-139		WG575481

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Arsenic	mg/kg	52.1	53.5	86.1	75-125	2.65	20	L556542-14	WG574948
Arsenic	mg/kg	48.1	51.8	92.5	75-125	7.41	20	L556349-06	WG574945
Barium	mg/kg	99.8	106.	98.8	75-125	6.03	20	L556349-06	WG574945
Cadmium	mg/kg	44.6	48.9	88.6	75-125	9.20	20	L556349-06	WG574945
Chromium	mg/kg	64.1	67.6	102.	75-125	5.32	20	L556349-06	WG574945
Copper	mg/kg	61.1	65.6	97.0	75-125	7.10	20	L556349-06	WG574945
Lead	mg/kg	49.2	52.0	90.4	75-125	5.53	20	L556349-06	WG574945
Nickel	mg/kg	57.5	60.4	91.4	75-125	4.92	20	L556349-06	WG574945
Selenium	mg/kg	45.3	48.6	90.2	75-125	7.03	20	L556349-06	WG574945
Silver	mg/kg	47.8	51.7	95.6	75-125	7.84	20	L556349-06	WG574945
Zinc	mg/kg	77.7	82.3	93.2	75-125	5.75	20	L556349-06	WG574945
Benzene	mg/kg	0.225	0.226	90.0	32-137	0.550	39	L556567-12	WG574941
Ethylbenzene	mg/kg	0.212	0.216	84.6	10-150	1.86	44	L556567-12	WG574941
Toluene	mg/kg	0.239	0.243	95.7	20-142	1.62	42	L556567-12	WG574941
Total Xylene	mg/kg	0.608	0.628	81.1	16-141	3.11	46	L556567-12	WG574941
a,a,a-Trifluorotoluene(PID)				94.14	54-144				WG574941
TPH (GC/FID) Low Fraction	mg/kg	22.9	22.3	83.3	55-109	2.91	20	L556567-12	WG574941
a,a,a-Trifluorotoluene(FID)				98.36	59-128				WG574941
TPH (GC/FID) High Fraction	ppm	52.3	53.3	87.2	50-150	1.91	25	L556567-04	WG574931
o-Terphenyl				94.49	50-150				WG574931
Mercury	mg/kg	0.222	0.244	86.5	70-130	9.44	20	L556656-04	WG575054
Benzene	mg/kg	0.202	0.218	79.6	32-137	7.67	39	L556500-01	WG574928
Ethylbenzene	mg/kg	0.198	0.214	79.2	10-150	7.61	44	L556500-01	WG574928
Toluene	mg/kg	0.191	0.207	76.5	20-142	7.92	42	L556500-01	WG574928
Total Xylene	mg/kg	0.569	0.614	75.6	16-141	7.58	46	L556500-01	WG574928
a,a,a-Trifluorotoluene(PID)				79.12	54-144				WG574928
Chromium, Hexavalent	mg/kg	14.9	13.8	74.5	50-150	7.67	20	L556327-01	WG575114
1-Methylnaphthalene	mg/kg	0.0363	0.0300	88.1	25-155	19.1	27	L556855-01	WG575481
2-Chloronaphthalene	mg/kg	0.0244	0.0295	74.1	31-153	18.8	22	L556855-01	WG575481
2-Methylnaphthalene	mg/kg	0.0458	0.0361	114.	22-172	23.8	29	L556855-01	WG575481

* 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

L556540

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

January 26, 2012

Analyte	Units	MSD	Matrix Spike	Duplicate	Limit	RPD	Limit	Ref	Samp	Batch
			Ref	%Rec						
Acenaphthene	mg/kg	0.0229	0.0249	69.5	43-133	8.25	26	L556855-01		WG575481
Acenaphthylene	mg/kg	0.0267	0.0287	81.0	42-146	7.17	22	L556855-01		WG575481
Anthracene	mg/kg	0.0288	0.0283	87.4	38-153	1.89	27	L556855-01		WG575481
Benzo(a)anthracene	mg/kg	0.0247	0.0262	74.7	31-142	6.08	31	L556855-01		WG575481
Benzo(a)pyrene	mg/kg	0.0274	0.0257	82.9	26-152	6.19	32	L556855-01		WG575481
Benzo(b)fluoranthene	mg/kg	0.0282	0.0265	85.5	10-188	6.18	33	L556855-01		WG575481
Benzo(g,h,i)perylene	mg/kg	0.0174	0.0234	52.7	10-176	29.4	30	L556855-01		WG575481
Benzo(k)fluoranthene	mg/kg	0.0234	0.0264	70.8	22-163	12.1	29	L556855-01		WG575481
Chrysene	mg/kg	0.0266	0.0269	80.7	26-146	0.812	30	L556855-01		WG575481
Dibenz(a,h)anthracene	mg/kg	0.0173	0.0236	52.3	10-160	30.9	39	L556855-01		WG575481
Fluoranthene	mg/kg	0.0289	0.0333	87.5	23-160	14.3	22	L556855-01		WG575481
Fluorene	mg/kg	0.0346	0.0296	105.	44-143	15.7	23	L556855-01		WG575481
Indeno(1,2,3-cd)pyrene	mg/kg	0.0169	0.0241	51.2	10-157	35.2	40	L556855-01		WG575481
Naphthalene	mg/kg	0.144	0.0757	322.*	22-156	62.4*	27	L556855-01		WG575481
Phenanthrene	mg/kg	0.0352	0.0324	86.2	23-164	8.55	25	L556855-01		WG575481
Pyrene	mg/kg	0.0238	0.0233	72.1	12-170	2.20	24	L556855-01		WG575481
2-Fluorobiphenyl				69.20	34-129					WG575481
Nitrobenzene-d5				941.0*	14-141					WG575481
p-Terphenyl-d14				77.73	25-139					WG575481

Batch number /Run number / Sample number cross reference

WG574897: R2007754: L556540-01
WG574948: R2008132: L556540-02 03
WG574945: R2008333: L556540-01
WG575044: R2008853: L556540-01
WG574931: R2009394: L556540-01
WG575118: R2009695: L556540-01
WG575181: R2009712: L556540-01
WG574941: R2010013: L556540-01
WG575054: R2010473: L556540-01
WG574928: R2010774: L556540-02 03
WG575114: R2011892: L556540-01
WG575481: R2012412: L556540-01 02 03

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

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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.