



12065 Lebanon Rd.
Mt. Juliet, TN 37122
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1-800-767-5859
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Tax I.D. 62-0814289

Est. 1970

Chris Hines or Brad Kieding
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Report Summary

Tuesday September 07, 2010

Report Number: L476576

Samples Received: 09/01/10

Client Project: H34 PIT CLOSURE

Description: H34 Pit Closure

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:

Jarred Willis, 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, NV - TN000032008A

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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

September 07, 2010

Chris Hines or Brad Kieding
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Date Received : September 01, 2010
Description : H34 Pit Closure
Sample ID : H34-N PIT BOTTOM-083110
Collected By : Blair Rollins
Collection Date : 08/31/10 12:15

ESC Sample # : L476576-01
Site ID :
Project # : H34 PIT CLOSURE

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	3.6	0.50	mg/kg	8015D/GRO	09/01/10	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	96.8		% Rec.	602/8015	09/01/10	5
TPH (GC/FID) High Fraction	4700	80.	mg/kg	3546/DRO	09/03/10	20
Surrogate recovery(%) o-Terphenyl	0.00		% Rec.	3546/DRO	09/03/10	20

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: 09/07/10 17:03 Printed: 09/07/10 17:18



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September 07, 2010

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

Date Received : September 01, 2010
Description : H34 Pit Closure
Sample ID : H34-N SPOIL-083110
Collected By : Blair Rollins
Collection Date : 08/31/10 12:30

ESC Sample # : L476576-02

Site ID :

Project # : H34 PIT CLOSURE

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include TPH (GC/FID) Low Fraction, Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID), TPH (GC/FID) High Fraction, and Surrogate recovery(%) o-Terphenyl.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 09/07/10 17:03 Printed: 09/07/10 17:18



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REPORT OF ANALYSIS

September 07, 2010

Chris Hines or Brad Kieding
 EnCana Oil & Gas Inc. - CO
 2717 County Road 215, Suite 100
 Parachute, CO 81635

ESC Sample # : L476576-03

Date Received : September 01, 2010
 Description : H34 Pit Closure
 Sample ID : H34-CUTTINGS-083110

Site ID :

Collected By : Blair Rollins
 Collection Date : 08/31/10 12:45

Project # : H34 PIT CLOSURE

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	09/03/10	1
Chromium,Trivalent	16.	2.0	mg/kg	Calc.	09/02/10	1
ORP	71.		mV	2580	09/04/10	1
pH	9.0		su	9045D	09/04/10	1
Sodium Adsorption Ratio	16.			Calc.	09/03/10	5
Specific Conductance	4100		umhos/cm	9050AMod	09/02/10	1
Mercury	0.023	0.020	mg/kg	7471	09/02/10	1
Arsenic	5.2	1.0	mg/kg	6010B	09/02/10	1
Barium	7500	1.2	mg/kg	6010B	09/02/10	5
Cadmium	1.2	0.25	mg/kg	6010B	09/02/10	1
Chromium	16.	0.50	mg/kg	6010B	09/02/10	1
Copper	18.	1.0	mg/kg	6010B	09/02/10	1
Lead	14.	0.25	mg/kg	6010B	09/02/10	1
Nickel	3.4	1.0	mg/kg	6010B	09/02/10	1
Selenium	BDL	1.0	mg/kg	6010B	09/02/10	1
Silver	BDL	0.50	mg/kg	6010B	09/02/10	1
Zinc	50.	1.5	mg/kg	6010B	09/02/10	1
Benzene	BDL	0.0025	mg/kg	8021/8015	09/02/10	5
Toluene	BDL	0.025	mg/kg	8021/8015	09/02/10	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	09/02/10	5
Total Xylene	0.054	0.0075	mg/kg	8021/8015	09/02/10	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	09/02/10	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	99.1		% Rec.	8021/8015	09/02/10	5
a,a,a-Trifluorotoluene(PID)	103.		% Rec.	8021/8015	09/02/10	5
TPH (GC/FID) High Fraction	55.	4.0	mg/kg	3546/DRO	09/07/10	1
Surrogate recovery(%)						
o-Terphenyl	58.4		% Rec.	3546/DRO	09/07/10	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	2.4	mg/kg	8270C-SIM	09/03/10	20
Acenaphthene	BDL	2.4	mg/kg	8270C-SIM	09/03/10	20
Acenaphthylene	BDL	2.4	mg/kg	8270C-SIM	09/03/10	20
Benzo(a)anthracene	BDL	2.4	mg/kg	8270C-SIM	09/03/10	20
Benzo(a)pyrene	BDL	2.4	mg/kg	8270C-SIM	09/03/10	20

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L476576-03 (PH) - 9.0@20.2c



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ESC Sample # : L476576-03

Date Received : September 01, 2010
Description : H34 Pit Closure
Sample ID : H34-CUTTINGS-083110

Site ID :

Collected By : Blair Rollins
Collection Date : 08/31/10 12:45

Project # : H34 PIT CLOSURE

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include various polycyclic aromatic hydrocarbons (PAHs) and surrogate recovery results.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 09/07/10 17:03 Printed: 09/07/10 17:18
L476576-03 (PH) - 9.0@20.2c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L476576-01	WG496592	SAMP	o-Terphenyl	R1362768	J7
L476576-02	WG496592	SAMP	o-Terphenyl	R1362768	J7
L476576-03	WG496510	SAMP	Barium	R1361930	V
	WG496510	SAMP	Nickel	R1361930	P1
	WG496562	SAMP	Anthracene	R1363309	O
	WG496562	SAMP	Acenaphthene	R1363309	O
	WG496562	SAMP	Acenaphthylene	R1363309	O
	WG496562	SAMP	Benzo(a)anthracene	R1363309	O
	WG496562	SAMP	Benzo(a)pyrene	R1363309	O
	WG496562	SAMP	Benzo(b)fluoranthene	R1363309	O
	WG496562	SAMP	Benzo(g,h,i)perylene	R1363309	O
	WG496562	SAMP	Benzo(k)fluoranthene	R1363309	O
	WG496562	SAMP	Chrysene	R1363309	O
	WG496562	SAMP	Dibenz(a,h)anthracene	R1363309	O
	WG496562	SAMP	Fluoranthene	R1363309	O
	WG496562	SAMP	Fluorene	R1363309	O
	WG496562	SAMP	Indeno(1,2,3-cd)pyrene	R1363309	O
	WG496562	SAMP	Naphthalene	R1363309	O
	WG496562	SAMP	Phenanthrene	R1363309	O
	WG496562	SAMP	Pyrene	R1363309	O
	WG496562	SAMP	1-Methylnaphthalene	R1363309	O
	WG496562	SAMP	2-Methylnaphthalene	R1363309	O
	WG496562	SAMP	2-Chloronaphthalene	R1363309	O
	WG496562	SAMP	Nitrobenzene-d5	R1363309	J7
	WG496562	SAMP	2-Fluorobiphenyl	R1363309	J7
	WG496562	SAMP	p-Terphenyl-d14	R1363309	J7

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out
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.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	(ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.

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
09/07/10 at 17:18:48

TSR Signing Reports: 358
R4 - Rush: Three Day

Sample: L476576-01 Account: ENCANACO Received: 09/01/10 09:00 Due Date: 09/07/10 00:00 RPT Date: 09/07/10 17:03

Sample: L476576-02 Account: ENCANACO Received: 09/01/10 09:00 Due Date: 09/07/10 00:00 RPT Date: 09/07/10 17:03

Sample: L476576-03 Account: ENCANACO Received: 09/01/10 09:00 Due Date: 09/07/10 00:00 RPT Date: 09/07/10 17:03



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Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG496395	09/01/10 11:07
a,a,a-Trifluorotoluene(FID)		% Rec.	96.88	59-128	WG496395	09/01/10 11:07
Benzene	< .0005	mg/kg			WG496403	09/01/10 16:38
Ethylbenzene	< .0005	mg/kg			WG496403	09/01/10 16:38
Toluene	< .005	mg/kg			WG496403	09/01/10 16:38
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG496403	09/01/10 16:38
Total Xylene	< .0015	mg/kg			WG496403	09/01/10 16:38
a,a,a-Trifluorotoluene(FID)		% Rec.	97.20	59-128	WG496403	09/01/10 16:38
a,a,a-Trifluorotoluene(PID)		% Rec.	101.8	54-144	WG496403	09/01/10 16:38
Mercury	< .02	mg/kg			WG496358	09/02/10 10:01
Specific Conductance	1.20	umhos/cm			WG496556	09/02/10 09:05
Arsenic	< 1	mg/kg			WG496510	09/03/10 08:31
Barium	< .25	mg/kg			WG496510	09/03/10 08:31
Cadmium	< .25	mg/kg			WG496510	09/03/10 08:31
Chromium	< .5	mg/kg			WG496510	09/03/10 08:31
Copper	< 1	mg/kg			WG496510	09/03/10 08:31
Lead	< .25	mg/kg			WG496510	09/03/10 08:31
Nickel	< 1	mg/kg			WG496510	09/03/10 08:31
Selenium	< 1	mg/kg			WG496510	09/03/10 08:31
Silver	< .5	mg/kg			WG496510	09/03/10 08:31
Zinc	< 1.5	mg/kg			WG496510	09/03/10 08:31
Chromium,Hexavalent	< 2	mg/kg			WG496496	09/03/10 12:54
TPH (GC/FID) High Fraction	< 4	ppm			WG496592	09/03/10 11:01
o-Terphenyl		% Rec.	105.8	50-150	WG496592	09/03/10 11:01
1-Methylnaphthalene	< .006	mg/kg			WG496562	09/03/10 06:45
2-Chloronaphthalene	< .006	mg/kg			WG496562	09/03/10 06:45
2-Methylnaphthalene	< .006	mg/kg			WG496562	09/03/10 06:45
Acenaphthene	< .006	mg/kg			WG496562	09/03/10 06:45
Acenaphthylene	< .006	mg/kg			WG496562	09/03/10 06:45
Anthracene	< .006	mg/kg			WG496562	09/03/10 06:45
Benzo(a)anthracene	< .006	mg/kg			WG496562	09/03/10 06:45
Benzo(a)pyrene	< .006	mg/kg			WG496562	09/03/10 06:45
Benzo(b)fluoranthene	< .006	mg/kg			WG496562	09/03/10 06:45
Benzo(g,h,i)perylene	< .006	mg/kg			WG496562	09/03/10 06:45
Benzo(k)fluoranthene	< .006	mg/kg			WG496562	09/03/10 06:45
Chrysene	< .006	mg/kg			WG496562	09/03/10 06:45
Dibenz(a,h)anthracene	< .006	mg/kg			WG496562	09/03/10 06:45
Fluoranthene	< .006	mg/kg			WG496562	09/03/10 06:45
Fluorene	< .006	mg/kg			WG496562	09/03/10 06:45
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG496562	09/03/10 06:45
Naphthalene	< .006	mg/kg			WG496562	09/03/10 06:45
Phenanthrene	< .006	mg/kg			WG496562	09/03/10 06:45
Pyrene	< .006	mg/kg			WG496562	09/03/10 06:45
2-Fluorobiphenyl		% Rec.	76.65	21-120	WG496562	09/03/10 06:45
Nitrobenzene-d5		% Rec.	68.81	33-114	WG496562	09/03/10 06:45

* 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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Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
p-Terphenyl-d14		% Rec.	94.48	18-142		09/03/10 06:45
pH	6.00	su			WG496907	09/04/10 14:07

Analyte	Units	Duplicate			Limit	Ref Samp	Batch
		Result	Duplicate	RPD			
Mercury	mg/kg	0.130	0.121	4.05	20	L475888-11	WG496358
Specific Conductance	umhos/cm	2700	2600	5.06	20	L476142-01	WG496556
Specific Conductance	umhos/cm	95.0	110.	14.5	20	L476696-01	WG496556
Arsenic	mg/kg	5.00	5.20	3.32	20	L476576-03	WG496510
Cadmium	mg/kg	1.20	1.20	4.26	20	L476576-03	WG496510
Chromium	mg/kg	16.0	16.0	2.53	20	L476576-03	WG496510
Copper	mg/kg	17.0	18.0	3.97	20	L476576-03	WG496510
Lead	mg/kg	12.0	14.0	12.9	20	L476576-03	WG496510
Nickel	mg/kg	0	3.40	NA	20	L476576-03	WG496510
Selenium	mg/kg	0	0	0	20	L476576-03	WG496510
Silver	mg/kg	0	0	0	20	L476576-03	WG496510
Zinc	mg/kg	48.0	50.0	5.13	20	L476576-03	WG496510
Chromium,Hexavalent	mg/kg	0	0	0	20	L476582-01	WG496496
Chromium,Hexavalent	mg/kg	0	0	0	20	L476195-04	WG496496
Barium	mg/kg	6800	7500	9.21	20	L476576-03	WG496510
ORP	mV	0	0	0	20	L476695-01	WG496849
pH	su	8.70	8.80	1.14*	1	L477063-08	WG496907

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.45	99.1	67-135	WG496395
a,a,a-Trifluorotoluene(FID)				102.5	59-128	WG496395
Benzene	mg/kg	.05	0.0515	103.	76-113	WG496403
Ethylbenzene	mg/kg	.05	0.0519	104.	78-115	WG496403
Toluene	mg/kg	.05	0.0498	99.6	76-114	WG496403
Total Xylene	mg/kg	.15	0.150	100.	81-118	WG496403
a,a,a-Trifluorotoluene(PID)				102.5	54-144	WG496403
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.64	102.	67-135	WG496403
a,a,a-Trifluorotoluene(FID)				104.4	59-128	WG496403
Mercury	mg/kg	8.77	10.6	121.	71.6-127.7	WG496358
Specific Conductance	umhos/cm	406	420.	103.	85-115	WG496556
Arsenic	mg/kg	192	170.	88.5	78.6-120.8	WG496510

* 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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Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Barium	mg/kg	420	404.	96.2	78.8-121.4	WG496510
Cadmium	mg/kg	70.1	64.2	91.6	78.5-121.5	WG496510
Chromium	mg/kg	168	167.	99.4	80.4-120.2	WG496510
Copper	mg/kg	122	122.	100.	81.6-119.7	WG496510
Lead	mg/kg	113	102.	90.3	77.3-122.1	WG496510
Nickel	mg/kg	74.1	89.8	121.	78.8-121.2	WG496510
Selenium	mg/kg	176	156.	88.6	75.6-125.0	WG496510
Silver	mg/kg	115	110.	95.7	66-133.9	WG496510
Zinc	mg/kg	437	416.	95.2	78.5-121.7	WG496510
Chromium, Hexavalent	mg/kg	100	60.4	60.4	50-143	WG496496
TPH (GC/FID) High Fraction	ppm	60	56.2	93.6	50-150	WG496592
o-Terphenyl				109.4	50-150	WG496592
1-Methylnaphthalene	mg/kg	.033	0.0279	84.6	41-110	WG496562
2-Chloronaphthalene	mg/kg	.033	0.0290	87.8	43-109	WG496562
2-Methylnaphthalene	mg/kg	.033	0.0278	84.2	38-104	WG496562
Acenaphthene	mg/kg	.033	0.0272	82.5	48-103	WG496562
Acenaphthylene	mg/kg	.033	0.0260	78.9	43-106	WG496562
Anthracene	mg/kg	.033	0.0293	88.7	51-110	WG496562
Benzo(a)anthracene	mg/kg	.033	0.0272	82.4	38-126	WG496562
Benzo(a)pyrene	mg/kg	.033	0.0280	84.8	47-118	WG496562
Benzo(b)fluoranthene	mg/kg	.033	0.0302	91.4	47-118	WG496562
Benzo(g,h,i)perylene	mg/kg	.033	0.0256	77.6	40-125	WG496562
Benzo(k)fluoranthene	mg/kg	.033	0.0286	86.8	45-121	WG496562
Chrysene	mg/kg	.033	0.0283	85.7	35-135	WG496562
Dibenz(a,h)anthracene	mg/kg	.033	0.0263	79.6	41-124	WG496562
Fluoranthene	mg/kg	.033	0.0283	85.8	50-114	WG496562
Fluorene	mg/kg	.033	0.0270	81.7	49-109	WG496562
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0261	79.0	40-126	WG496562
Naphthalene	mg/kg	.033	0.0240	72.8	36-100	WG496562
Phenanthrene	mg/kg	.033	0.0275	83.5	46-108	WG496562
Pyrene	mg/kg	.033	0.0297	89.9	30-136	WG496562
2-Fluorobiphenyl				82.83	21-120	WG496562
Nitrobenzene-d5				75.32	33-114	WG496562
p-Terphenyl-d14				100.9	18-142	WG496562
ORP	mV	229	220.	96.1	95.6-104.37	WG496849
pH	su	9.36	9.30	99.4	98.9-102.0	WG496907

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
TPH (GC/FID) Low Fraction	mg/kg	5.57	5.45	101.	67-135	2.11	20	WG496395
a,a,a-Trifluorotoluene(FID)				102.2	59-128			WG496395
Benzene	mg/kg	0.0511	0.0515	102.	76-113	0.720	20	WG496403
Ethylbenzene	mg/kg	0.0502	0.0519	100.	78-115	3.42	20	WG496403
Toluene	mg/kg	0.0494	0.0498	99.0	76-114	0.870	20	WG496403
Total Xylene	mg/kg	0.144	0.150	96.0	81-118	4.09	20	WG496403
a,a,a-Trifluorotoluene(PID)				103.5	54-144			WG496403

* Performance of this Analyte is outside of established criteria.
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September 07, 2010

L476576

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
TPH (GC/FID) Low Fraction	mg/kg	5.82	5.64	106.	67-135	3.14	20	WG496403
a,a,a-Trifluorotoluene(FID)				103.8	59-128			WG496403
Specific Conductance	umhos/	420.	420.	103.	85-115	0	20	WG496556
Chromium,Hexavalent	mg/kg	58.2	60.4	58.0	50-143	3.71	20	WG496496
TPH (GC/FID) High Fraction	ppm	50.7	56.2	84.0	50-150	10.2	25	WG496592
o-Terphenyl				97.62	50-150			WG496592
1-Methylnaphthalene	mg/kg	0.0250	0.0279	76.0	41-110	11.1	24	WG496562
2-Chloronaphthalene	mg/kg	0.0281	0.0290	85.0	43-109	3.18	21	WG496562
2-Methylnaphthalene	mg/kg	0.0250	0.0278	76.0	38-104	10.6	24	WG496562
Acenaphthene	mg/kg	0.0275	0.0272	83.0	48-103	1.03	20	WG496562
Acenaphthylene	mg/kg	0.0252	0.0260	76.0	43-106	3.10	20	WG496562
Anthracene	mg/kg	0.0270	0.0293	82.0	51-110	8.13	22	WG496562
Benzo(a)anthracene	mg/kg	0.0272	0.0272	82.0	38-126	0.0197	20	WG496562
Benzo(a)pyrene	mg/kg	0.0270	0.0280	82.0	47-118	3.59	20	WG496562
Benzo(b)fluoranthene	mg/kg	0.0292	0.0302	88.0	47-118	3.37	29	WG496562
Benzo(g,h,i)perylene	mg/kg	0.0255	0.0256	77.0	40-125	0.278	20	WG496562
Benzo(k)fluoranthene	mg/kg	0.0280	0.0286	85.0	45-121	2.28	31	WG496562
Chrysene	mg/kg	0.0282	0.0283	85.0	35-135	0.464	20	WG496562
Dibenz(a,h)anthracene	mg/kg	0.0264	0.0263	80.0	41-124	0.675	20	WG496562
Fluoranthene	mg/kg	0.0300	0.0283	91.0	50-114	5.69	20	WG496562
Fluorene	mg/kg	0.0275	0.0270	83.0	49-109	2.14	19	WG496562
Indeno(1,2,3-cd)pyrene	mg/kg	0.0254	0.0261	77.0	40-126	2.48	20	WG496562
Naphthalene	mg/kg	0.0229	0.0240	70.0	36-100	4.64	24	WG496562
Phenanthrene	mg/kg	0.0247	0.0275	75.0	46-108	10.9	21	WG496562
Pyrene	mg/kg	0.0277	0.0297	84.0	30-136	6.70	20	WG496562
2-Fluorobiphenyl				84.37	21-120			WG496562
Nitrobenzene-d5				72.25	33-114			WG496562
p-Terphenyl-d14				96.71	18-142			WG496562
ORP	mV	220.	220.	96.0	95.6-104.37	0	20	WG496849
pH	su	9.30	9.30	99.0	98.9-102.0	0	20	WG496907

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
TPH (GC/FID) Low Fraction	mg/kg	17.4	0	5.5	63.3	55-109	L476361-03	WG496395
a,a,a-Trifluorotoluene(FID)					97.19	59-128		WG496395
Benzene	mg/kg	0.0491	0	.05	98.1	32-137	L476108-33	WG496403
Ethylbenzene	mg/kg	0.0481	0	.05	96.2	10-150	L476108-33	WG496403
Toluene	mg/kg	0.0476	0	.05	95.3	20-142	L476108-33	WG496403
Total Xylene	mg/kg	0.140	0	.15	93.1	16-141	L476108-33	WG496403
a,a,a-Trifluorotoluene(PID)					103.7	54-144		WG496403
TPH (GC/FID) Low Fraction	mg/kg	4.92	0	5.5	89.5	55-109	L476108-33	WG496403
a,a,a-Trifluorotoluene(FID)					102.0	59-128		WG496403

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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Mercury	mg/kg	0.402	0.121	.25	112.	70-130	L475888-11	WG496358
Arsenic	mg/kg	51.1	5.20	50	91.8	75-125	L476576-03	WG496510
Cadmium	mg/kg	44.0	1.20	50	85.6	75-125	L476576-03	WG496510
Chromium	mg/kg	61.9	16.0	50	91.8	75-125	L476576-03	WG496510
Copper	mg/kg	68.6	18.0	50	101.	75-125	L476576-03	WG496510
Lead	mg/kg	57.6	14.0	50	87.2	75-125	L476576-03	WG496510
Nickel	mg/kg	48.3	3.40	50	89.8	75-125	L476576-03	WG496510
Selenium	mg/kg	44.0	0	50	88.0	75-125	L476576-03	WG496510
Silver	mg/kg	47.6	0	50	95.2	75-125	L476576-03	WG496510
Zinc	mg/kg	97.0	50.0	50	94.0	75-125	L476576-03	WG496510
Chromium,Hexavalent	mg/kg	1.02	0	20	5.10*	50-150	L476195-05	WG496496
Barium	mg/kg	7020	7500	10	0*	75-125	L476576-03	WG496510
TPH (GC/FID) High Fraction o-Terphenyl	ppm	334.	320.	60	23.9* 68.60	50-150 50-150	L476678-01	WG496592 WG496592

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg/kg	23.4	17.4	85.1 101.2	55-109 59-128	29.4*	20	L476361-03	WG496395 WG496395
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg/kg	4.83	4.92	87.9 101.7	55-109 59-128	1.80	20	L476108-33	WG496403 WG496403
Benzene	mg/kg	0.0422	0.0491	84.4	32-137	15.0	39	L476108-33	WG496403
Ethylbenzene	mg/kg	0.0396	0.0481	79.2	10-150	19.3	44	L476108-33	WG496403
Toluene	mg/kg	0.0405	0.0476	81.0	20-142	16.2	42	L476108-33	WG496403
Total Xylene a,a,a-Trifluorotoluene(PID)	mg/kg	0.115	0.140	76.5 102.8	16-141 54-144	19.6	46	L476108-33	WG496403 WG496403
Mercury	mg/kg	0.416	0.402	118.	70-130	3.42	20	L475888-11	WG496358
Arsenic	mg/kg	51.2	51.1	92.0	75-125	0.196	20	L476576-03	WG496510
Cadmium	mg/kg	44.4	44.0	86.4	75-125	0.905	20	L476576-03	WG496510
Chromium	mg/kg	62.9	61.9	93.8	75-125	1.60	20	L476576-03	WG496510
Copper	mg/kg	68.8	68.6	102.	75-125	0.291	20	L476576-03	WG496510
Lead	mg/kg	57.7	57.6	87.4	75-125	0.173	20	L476576-03	WG496510
Nickel	mg/kg	48.3	48.3	89.8	75-125	0	20	L476576-03	WG496510
Selenium	mg/kg	44.8	44.0	89.6	75-125	1.80	20	L476576-03	WG496510
Silver	mg/kg	47.9	47.6	95.8	75-125	0.628	20	L476576-03	WG496510
Zinc	mg/kg	99.8	97.0	99.6	75-125	2.85	20	L476576-03	WG496510
Chromium,Hexavalent	mg/kg	1.63	1.02	8.15*	50-150	46.0*	20	L476195-05	WG496496
Barium	mg/kg	6390	7020	0*	75-125	9.40	20	L476576-03	WG496510

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Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
TPH (GC/FID) High Fraction	ppm	303.	334.	0*	50-150	9.86	25	L476678-01	WG496592
o-Terphenyl				58.98	50-150				WG496592

Batch number /Run number / Sample number cross reference

WG496395: R1357808: L476576-01 02
 WG496403: R1359089: L476576-03
 WG496358: R1360268: L476576-03
 WG496556: R1360528: L476576-03
 WG496510: R1361930: L476576-03
 WG496496: R1362589: L476576-03
 WG496592: R1362768: L476576-01 02 03
 WG496511: R1362788: L476576-03
 WG496562: R1363309: L476576-03
 WG496849: R1365175: L476576-03
 WG496907: R1365208: L476576-03

* * 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.



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Report Summary

Wednesday June 29, 2011

Report Number: L523059

Samples Received: 06/25/11

Client Project:

Description: M23

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:

Jared Willis , 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, NV - TN000032008A,
TX - T104704245, OK-9915

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REPORT OF ANALYSIS

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

June 29, 2011

Date Received : June 25, 2011
 Description : M23
 Sample ID : M23-CUT-062211 12-14IN
 Collected By : Brennen Graff
 Collection Date : 06/22/11 14:47

ESC Sample # : L523059-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	06/28/11	1
Chromium,Trivalent	19.	2.0	mg/kg	Calc.	06/26/11	1
ORP	110		mV	2580	06/27/11	1
pH	12.		su	9045D	06/29/11	1
Sodium Adsorption Ratio	18.			Calc.	06/28/11	1
Specific Conductance	3000		umhos/cm	9050AMod	06/27/11	1
Mercury	0.040	0.020	mg/kg	7471	06/26/11	1
Arsenic	6.0	5.0	mg/kg	6010B	06/26/11	5
Barium	3200	0.25	mg/kg	6010B	06/26/11	1
Cadmium	1.3	0.25	mg/kg	6010B	06/26/11	1
Chromium	19.	0.50	mg/kg	6010B	06/26/11	1
Copper	17.	1.0	mg/kg	6010B	06/26/11	1
Lead	18.	0.25	mg/kg	6010B	06/26/11	1
Nickel	14.	5.0	mg/kg	6010B	06/26/11	5
Selenium	7.6	1.0	mg/kg	6010B	06/26/11	1
Silver	BDL	0.50	mg/kg	6010B	06/26/11	1
Zinc	48.	1.5	mg/kg	6010B	06/26/11	1
Benzene	0.0026	0.0025	mg/kg	8021/8015	06/25/11	5
Toluene	BDL	0.025	mg/kg	8021/8015	06/25/11	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	06/25/11	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	06/25/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	06/25/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	101.		% Rec.	8021/8015	06/25/11	5
a,a,a-Trifluorotoluene(PID)	104.		% Rec.	8021/8015	06/25/11	5
TPH (GC/FID) High Fraction	120	4.0	mg/kg	3546/DRO	06/27/11	1
Surrogate recovery(%)						
o-Terphenyl	74.2		% Rec.	3546/DRO	06/27/11	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.060	mg/kg	8270C-SIM	06/28/11	10
Acenaphthene	BDL	0.060	mg/kg	8270C-SIM	06/28/11	10
Acenaphthylene	BDL	0.060	mg/kg	8270C-SIM	06/28/11	10
Benzo(a)anthracene	BDL	0.060	mg/kg	8270C-SIM	06/28/11	10
Benzo(a)pyrene	BDL	0.060	mg/kg	8270C-SIM	06/28/11	10

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L523059-01 (PH) - 12@19.7c



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June 29, 2011

Date Received : June 25, 2011
 Description : M23
 Sample ID : M23-CUT-062211 12-14IN
 Collected By : Brennen Graff
 Collection Date : 06/22/11 14:47

ESC Sample # : L523059-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.060	mg/kg	8270C-SIM	06/28/11	10
Benzo(g,h,i)perylene	BDL	0.060	mg/kg	8270C-SIM	06/28/11	10
Benzo(k)fluoranthene	BDL	0.060	mg/kg	8270C-SIM	06/28/11	10
Chrysene	BDL	0.060	mg/kg	8270C-SIM	06/28/11	10
Dibenz(a,h)anthracene	BDL	0.060	mg/kg	8270C-SIM	06/28/11	10
Fluoranthene	BDL	0.060	mg/kg	8270C-SIM	06/28/11	10
Fluorene	BDL	0.060	mg/kg	8270C-SIM	06/28/11	10
Indeno(1,2,3-cd)pyrene	BDL	0.060	mg/kg	8270C-SIM	06/28/11	10
Naphthalene	0.11	0.060	mg/kg	8270C-SIM	06/28/11	10
Phenanthrene	0.072	0.060	mg/kg	8270C-SIM	06/28/11	10
Pyrene	BDL	0.060	mg/kg	8270C-SIM	06/28/11	10
1-Methylnaphthalene	0.16	0.060	mg/kg	8270C-SIM	06/28/11	10
2-Methylnaphthalene	0.24	0.060	mg/kg	8270C-SIM	06/28/11	10
2-Chloronaphthalene	BDL	0.060	mg/kg	8270C-SIM	06/28/11	10
Surrogate Recovery						
Nitrobenzene-d5	28.4		% Rec.	8270C-SIM	06/28/11	10
2-Fluorobiphenyl	53.0		% Rec.	8270C-SIM	06/28/11	10
p-Terphenyl-d14	56.6		% Rec.	8270C-SIM	06/28/11	10

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: 06/29/11 12:52 Printed: 06/29/11 13:08
 L523059-01 (PH) - 12@19.7c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L523059-01	WG542704	SAMP	Arsenic	R1742771	P1
	WG542704	SAMP	Barium	R1742771	V
	WG542704	SAMP	Nickel	R1742771	P1
	WG542704	SAMP	Selenium	R1742771	P1
	WG542646	SAMP	TPH (GC/FID) High Fraction	R1740970	J6

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	(ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.

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
06/29/11 at 13:08:17

TSR Signing Reports: 358
R3 - Rush: Two Day

Sample: L523059-01 Account: ENCANACO Received: 06/25/11 09:00 Due Date: 06/29/11 00:00 RPT Date: 06/29/11 12:52



YOUR LAB OF CHOICE

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

Quality Assurance Report
 Level II

L523059

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

June 29, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/kg			WG542709	06/25/11 22:19
Ethylbenzene	< .0005	mg/kg			WG542709	06/25/11 22:19
Toluene	< .005	mg/kg			WG542709	06/25/11 22:19
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG542709	06/25/11 22:19
Total Xylene	< .0015	mg/kg			WG542709	06/25/11 22:19
a,a,a-Trifluorotoluene(FID)		% Rec.	103.2	59-128	WG542709	06/25/11 22:19
a,a,a-Trifluorotoluene(PID)		% Rec.	107.6	54-144	WG542709	06/25/11 22:19
Mercury	< .02	mg/kg			WG542665	06/26/11 10:12
TPH (GC/FID) High Fraction	< 4	ppm			WG542646	06/27/11 08:14
o-Terphenyl		% Rec.	68.12	50-150	WG542646	06/27/11 08:14
1-Methylnaphthalene	< .006	mg/kg			WG542654	06/28/11 10:05
2-Chloronaphthalene	< .006	mg/kg			WG542654	06/28/11 10:05
2-Methylnaphthalene	< .006	mg/kg			WG542654	06/28/11 10:05
Acenaphthene	< .006	mg/kg			WG542654	06/28/11 10:05
Acenaphthylene	< .006	mg/kg			WG542654	06/28/11 10:05
Anthracene	< .006	mg/kg			WG542654	06/28/11 10:05
Benzo(a)anthracene	< .006	mg/kg			WG542654	06/28/11 10:05
Benzo(a)pyrene	< .006	mg/kg			WG542654	06/28/11 10:05
Benzo(b)fluoranthene	< .006	mg/kg			WG542654	06/28/11 10:05
Benzo(g,h,i)perylene	< .006	mg/kg			WG542654	06/28/11 10:05
Benzo(k)fluoranthene	< .006	mg/kg			WG542654	06/28/11 10:05
Chrysene	< .006	mg/kg			WG542654	06/28/11 10:05
Dibenz(a,h)anthracene	< .006	mg/kg			WG542654	06/28/11 10:05
Fluoranthene	< .006	mg/kg			WG542654	06/28/11 10:05
Fluorene	< .006	mg/kg			WG542654	06/28/11 10:05
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG542654	06/28/11 10:05
Naphthalene	< .006	mg/kg			WG542654	06/28/11 10:05
Phenanthrene	< .006	mg/kg			WG542654	06/28/11 10:05
Pyrene	< .006	mg/kg			WG542654	06/28/11 10:05
2-Fluorobiphenyl		% Rec.	90.43	21-120	WG542654	06/28/11 10:05
Nitrobenzene-d5		% Rec.	73.35	33-114	WG542654	06/28/11 10:05
p-Terphenyl-d14		% Rec.	88.84	18-142	WG542654	06/28/11 10:05
Arsenic	< 1	mg/kg			WG542704	06/27/11 19:06
Barium	< .25	mg/kg			WG542704	06/27/11 19:06
Cadmium	< .25	mg/kg			WG542704	06/27/11 19:06
Chromium	< .5	mg/kg			WG542704	06/27/11 19:06
Copper	< 1	mg/kg			WG542704	06/27/11 19:06
Lead	< .25	mg/kg			WG542704	06/27/11 19:06
Nickel	< 1	mg/kg			WG542704	06/27/11 19:06
Selenium	< 1	mg/kg			WG542704	06/27/11 19:06
Silver	< .5	mg/kg			WG542704	06/27/11 19:06
Zinc	< 1.5	mg/kg			WG542704	06/27/11 19:06
Specific Conductance	0.990	umhos/cm			WG542673	06/27/11 16:32
Chromium,Hexavalent	< 2	mg/kg			WG542576	06/28/11 15:01
pH	6.00	su			WG543151	06/29/11 10:40

* Performance of this Analyte is outside of established criteria.
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Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Mercury	mg/kg	0	0	0	20	L522913-11	WG542665
ORP	mV	170.	170.	1.17	20	L522662-04	WG542685
ORP	mV	160.	160.	2.53	20	L522791-02	WG542685
Barium	mg/kg	3600	3200	13.1	20	L523059-01	WG542704
Cadmium	mg/kg	1.10	1.30	15.8	20	L523059-01	WG542704
Chromium	mg/kg	17.0	19.0	9.37	20	L523059-01	WG542704
Copper	mg/kg	14.0	17.0	17.3	20	L523059-01	WG542704
Lead	mg/kg	21.0	18.0	13.5	20	L523059-01	WG542704
Selenium	mg/kg	4.90	7.60	43.2*	20	L523059-01	WG542704
Silver	mg/kg	0	0	0	20	L523059-01	WG542704
Zinc	mg/kg	49.0	48.0	1.24	20	L523059-01	WG542704
Specific Conductance	umhos/cm	1100	920.	17.8	20	L522685-01	WG542673
Specific Conductance	umhos/cm	1300	1600	20.7*	20	L522687-57	WG542673
Arsenic	mg/kg	0	6.00	NA	20	L523059-01	WG542704
Nickel	mg/kg	10.0	14.0	28.6*	20	L523059-01	WG542704
Chromium,Hexavalent	mg/kg	0	0	0	20	L522662-04	WG542576
Chromium,Hexavalent	mg/kg	0	0	0	20	L523059-01	WG542576
pH	su	7.90	7.70	2.56*	1	L522687-51	WG543151
pH	su	9.30	9.30	0	1	L523243-01	WG543151

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/kg	.05	0.0519	104.	76-113	WG542709
Ethylbenzene	mg/kg	.05	0.0516	103.	78-115	WG542709
Toluene	mg/kg	.05	0.0510	102.	76-114	WG542709
Total Xylene	mg/kg	.15	0.158	105.	81-118	WG542709
a,a,a-Trifluorotoluene(PID)				103.4	54-144	WG542709
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.08	92.4	67-135	WG542709
a,a,a-Trifluorotoluene(FID)				103.4	59-128	WG542709
Mercury	mg/kg	8.77	9.88	113.	71.6-127.7	WG542665
TPH (GC/FID) High Fraction	ppm	60	41.9	69.9	50-150	WG542646
o-Terphenyl				69.72	50-150	WG542646
ORP	mV	229	220.	96.1	95.6-104.37	WG542685
1-Methylnaphthalene	mg/kg	.033	0.0282	85.3	41-110	WG542654
2-Chloronaphthalene	mg/kg	.033	0.0281	85.3	43-109	WG542654
2-Methylnaphthalene	mg/kg	.033	0.0252	76.5	38-104	WG542654
Acenaphthene	mg/kg	.033	0.0273	82.7	48-103	WG542654
Acenaphthylene	mg/kg	.033	0.0269	81.4	43-106	WG542654

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Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Anthracene	mg/kg	.033	0.0298	90.4	51-110	WG542654
Benzo(a)anthracene	mg/kg	.033	0.0239	72.4	38-126	WG542654
Benzo(a)pyrene	mg/kg	.033	0.0321	97.4	47-118	WG542654
Benzo(b)fluoranthene	mg/kg	.033	0.0309	93.7	47-118	WG542654
Benzo(g,h,i)perylene	mg/kg	.033	0.0285	86.5	40-125	WG542654
Benzo(k)fluoranthene	mg/kg	.033	0.0295	89.5	45-121	WG542654
Chrysene	mg/kg	.033	0.0321	97.1	35-135	WG542654
Dibenz(a,h)anthracene	mg/kg	.033	0.0276	83.8	41-124	WG542654
Fluoranthene	mg/kg	.033	0.0303	91.7	50-114	WG542654
Fluorene	mg/kg	.033	0.0283	85.8	49-109	WG542654
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0287	87.1	40-126	WG542654
Naphthalene	mg/kg	.033	0.0243	73.5	36-100	WG542654
Phenanthrene	mg/kg	.033	0.0258	78.2	46-108	WG542654
Pyrene	mg/kg	.033	0.0305	92.5	30-136	WG542654
2-Fluorobiphenyl				79.19	33-114	WG542654
Nitrobenzene-d5				66.51	21-120	WG542654
p-Terphenyl-d14				80.88	18-142	WG542654
Arsenic	mg/kg	192	182.	94.8	78.6-120.8	WG542704
Barium	mg/kg	420	398.	94.8	78.8-121.4	WG542704
Cadmium	mg/kg	70.1	65.2	93.0	78.5-121.5	WG542704
Chromium	mg/kg	168	167.	99.4	80.4-120.2	WG542704
Copper	mg/kg	122	121.	99.2	81.6-119.7	WG542704
Lead	mg/kg	113	112.	99.1	77.3-122.1	WG542704
Nickel	mg/kg	74.1	75.6	102.	78.8-121.2	WG542704
Selenium	mg/kg	176	186.	106.	75.6-125.0	WG542704
Silver	mg/kg	115	112.	97.4	66-133.9	WG542704
Zinc	mg/kg	437	406.	92.9	78.5-121.7	WG542704
Specific Conductance	umhos/cm	445	440.	98.9	85-115	WG542673
Chromium,Hexavalent	mg/kg	132	104.	78.8	50-150	WG542576
pH	su	6.3	6.30	100.	97.98-102.02	WG543151

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/kg	0.0544	0.0519	109.	76-113	4.67	20	WG542709
Ethylbenzene	mg/kg	0.0540	0.0516	108.	78-115	4.61	20	WG542709
Toluene	mg/kg	0.0532	0.0510	106.	76-114	4.15	20	WG542709
Total Xylene	mg/kg	0.165	0.158	110.	81-118	4.28	20	WG542709
a,a,a-Trifluorotoluene(PID)				105.4	54-144			WG542709
TPH (GC/FID) Low Fraction	mg/kg	5.17	5.08	94.0	67-135	1.84	20	WG542709
a,a,a-Trifluorotoluene(FID)				104.4	59-128			WG542709
TPH (GC/FID) High Fraction	ppm	43.7	41.9	73.0	50-150	4.02	20	WG542646
o-Terphenyl				69.38	50-150			WG542646
ORP	mV	220.	220.	96.0	95.6-104.37	0	20	WG542685
1-Methylnaphthalene	mg/kg	0.0284	0.0282	86.0	41-110	1.01	24	WG542654

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Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec					
2-Chloronaphthalene	mg/kg	0.0283	0.0281	86.0		43-109	0.502	21	WG542654
2-Methylnaphthalene	mg/kg	0.0252	0.0252	76.0		38-104	0.191	24	WG542654
Acenaphthene	mg/kg	0.0282	0.0273	85.0		48-103	3.09	20	WG542654
Acenaphthylene	mg/kg	0.0275	0.0269	83.0		43-106	2.32	20	WG542654
Anthracene	mg/kg	0.0308	0.0298	93.0		51-110	3.23	22	WG542654
Benzo(a)anthracene	mg/kg	0.0241	0.0239	73.0		38-126	0.762	20	WG542654
Benzo(a)pyrene	mg/kg	0.0284	0.0321	86.0		47-118	12.5	20	WG542654
Benzo(b)fluoranthene	mg/kg	0.0320	0.0309	97.0		47-118	3.27	29	WG542654
Benzo(g,h,i)perylene	mg/kg	0.0298	0.0285	90.0		40-125	4.39	20	WG542654
Benzo(k)fluoranthene	mg/kg	0.0326	0.0295	99.0		45-121	9.97	31	WG542654
Chrysene	mg/kg	0.0342	0.0321	104.		35-135	6.60	20	WG542654
Dibenz(a,h)anthracene	mg/kg	0.0292	0.0276	88.0		41-124	5.62	20	WG542654
Fluoranthene	mg/kg	0.0302	0.0303	91.0		50-114	0.373	20	WG542654
Fluorene	mg/kg	0.0280	0.0283	85.0		49-109	1.28	19	WG542654
Indeno(1,2,3-cd)pyrene	mg/kg	0.0295	0.0287	89.0		40-126	2.50	20	WG542654
Naphthalene	mg/kg	0.0248	0.0243	75.0		36-100	2.31	24	WG542654
Phenanthrene	mg/kg	0.0254	0.0258	77.0		46-108	1.41	21	WG542654
Pyrene	mg/kg	0.0305	0.0305	92.0		30-136	0.180	20	WG542654
2-Fluorobiphenyl				84.60		33-114			WG542654
Nitrobenzene-d5				70.20		21-120			WG542654
p-Terphenyl-d14				85.02		18-142			WG542654
Specific Conductance	umhos/	440.	440.	99.0		85-115	0	20	WG542673
Chromium,Hexavalent	mg/kg	108.	104.	82.0		50-150	3.77	20	WG542576
pH	su	6.30	6.30	100.		97.98-102.02	0	20	WG543151

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Benzene	mg/kg	0.228	0.00260	.05	90.2	32-137	L523059-01	WG542709
Ethylbenzene	mg/kg	0.211	0	.05	84.6	10-150	L523059-01	WG542709
Toluene	mg/kg	0.221	0	.05	88.6	20-142	L523059-01	WG542709
Total Xylene	mg/kg	0.654	0	.15	87.2	16-141	L523059-01	WG542709
a,a,a-Trifluorotoluene(PID)					102.6	54-144		WG542709
TPH (GC/FID) Low Fraction	mg/kg	20.4	0	5.5	74.1	55-109	L523059-01	WG542709
a,a,a-Trifluorotoluene(FID)					98.04	59-128		WG542709
Mercury	mg/kg	0.276	0	.25	110.	70-130	L522913-11	WG542665
TPH (GC/FID) High Fraction					36.8*	50-150	L523059-01	WG542646
o-Terphenyl	ppm	142.	120.	60	63.29	50-150		WG542646
Barium	mg/kg	3850	3200	50	1300*	75-125	L523059-01	WG542704
Cadmium	mg/kg	43.7	1.30	50	84.8	75-125	L523059-01	WG542704
Chromium	mg/kg	60.9	19.0	50	83.8	75-125	L523059-01	WG542704
Copper	mg/kg	65.0	17.0	50	96.0	75-125	L523059-01	WG542704
Lead	mg/kg	61.9	18.0	50	87.8	75-125	L523059-01	WG542704
Selenium	mg/kg	50.8	7.60	50	86.4	75-125	L523059-01	WG542704
Silver	mg/kg	47.9	0	50	95.8	75-125	L523059-01	WG542704
Zinc	mg/kg	95.2	48.0	50	94.4	75-125	L523059-01	WG542704
Arsenic	mg/kg	51.6	6.00	10	91.2	75-125	L523059-01	WG542704

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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Nickel	mg/kg	56.7	14.0	10	85.4	75-125	L523059-01	WG542704
1-Methylnaphthalene	mg/kg	0.0260	0	.033	78.9	19-131	L522275-03	WG542654
2-Chloronaphthalene	mg/kg	0.0259	0	.033	78.6	38-117	L522275-03	WG542654
2-Methylnaphthalene	mg/kg	0.0245	0	.033	74.4	18-125	L522275-03	WG542654
Acenaphthene	mg/kg	0.0280	0	.033	85.0	31-120	L522275-03	WG542654
Acenaphthylene	mg/kg	0.0271	0	.033	82.2	34-116	L522275-03	WG542654
Anthracene	mg/kg	0.0277	0	.033	83.9	32-131	L522275-03	WG542654
Benzo(a)anthracene	mg/kg	0.0243	0	.033	73.6	32-131	L522275-03	WG542654
Benzo(a)pyrene	mg/kg	0.0351	0	.033	106.	28-130	L522275-03	WG542654
Benzo(b)fluoranthene	mg/kg	0.0348	0	.033	105.	37-130	L522275-03	WG542654
Benzo(g,h,i)perylene	mg/kg	0.0117	0	.033	35.5	10-134	L522275-03	WG542654
Benzo(k)fluoranthene	mg/kg	0.0496	0	.033	150.*	31-129	L522275-03	WG542654
Chrysene	mg/kg	0.0326	0	.033	98.7	25-137	L522275-03	WG542654
Dibenz(a,h)anthracene	mg/kg	0.0149	0	.033	45.3	20-134	L522275-03	WG542654
Fluoranthene	mg/kg	0.0307	0	.033	93.1	27-138	L522275-03	WG542654
Fluorene	mg/kg	0.0295	0	.033	89.4	26-136	L522275-03	WG542654
Indeno(1,2,3-cd)pyrene	mg/kg	0.0138	0	.033	41.8	16-135	L522275-03	WG542654
Naphthalene	mg/kg	0.0235	0	.033	71.2	22-121	L522275-03	WG542654
Phenanthrene	mg/kg	0.0273	0	.033	82.8	27-133	L522275-03	WG542654
Pyrene	mg/kg	0.0429	0	.033	130.	22-133	L522275-03	WG542654
2-Fluorobiphenyl					77.68	33-114		WG542654
Nitrobenzene-d5					63.62	21-120		WG542654
p-Terphenyl-d14					115.4	18-142		WG542654
Chromium,Hexavalent	mg/kg	7.08	0	20	35.4*	50-150	L522655-01	WG542576

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Benzene	mg/kg	0.245	0.228	96.9	32-137	7.04	39	L523059-01	WG542709
Ethylbenzene	mg/kg	0.218	0.211	87.4	10-150	3.23	44	L523059-01	WG542709
Toluene	mg/kg	0.231	0.221	92.2	20-142	4.02	42	L523059-01	WG542709
Total Xylene	mg/kg	0.669	0.654	89.2	16-141	2.25	46	L523059-01	WG542709
a,a,a-Trifluorotoluene(PID)				103.4	54-144				WG542709
TPH (GC/FID) Low Fraction	mg/kg	17.3	20.4	62.9	55-109	16.4	20	L523059-01	WG542709
a,a,a-Trifluorotoluene(FID)				98.27	59-128				WG542709
Mercury	mg/kg	0.259	0.276	104.	70-130	6.36	20	L522913-11	WG542665
TPH (GC/FID) High Fraction	ppm	131.	142.	17.8*	50-150	8.35	20	L523059-01	WG542646
o-Terphenyl				64.31	50-150				WG542646
Barium	mg/kg	4460	3850	2520*	75-125	14.7	20	L523059-01	WG542704
Cadmium	mg/kg	44.7	43.7	86.8	75-125	2.26	20	L523059-01	WG542704
Chromium	mg/kg	65.0	60.9	92.0	75-125	6.51	20	L523059-01	WG542704
Copper	mg/kg	69.3	65.0	105.	75-125	6.40	20	L523059-01	WG542704
Lead	mg/kg	64.6	61.9	93.2	75-125	4.27	20	L523059-01	WG542704
Selenium	mg/kg	52.8	50.8	90.4	75-125	3.86	20	L523059-01	WG542704
Silver	mg/kg	50.2	47.9	100.	75-125	4.69	20	L523059-01	WG542704
Zinc	mg/kg	100.	95.2	104.	75-125	4.92	20	L523059-01	WG542704
Arsenic	mg/kg	56.5	51.6	101.	75-125	9.07	20	L523059-01	WG542704
Nickel	mg/kg	61.1	56.7	94.2	75-125	7.47	20	L523059-01	WG542704

* 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

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Quality Assurance Report
 Level II

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 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

June 29, 2011

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref	Samp	Batch
			Ref	%Rec						
1-Methylnaphthalene	mg/kg	0.0271	0.0260	82.2	19-131	4.07	30	L522275-03	WG542654	
2-Chloronaphthalene	mg/kg	0.0272	0.0259	82.5	38-117	4.78	26	L522275-03	WG542654	
2-Methylnaphthalene	mg/kg	0.0251	0.0245	75.9	18-125	2.13	29	L522275-03	WG542654	
Acenaphthene	mg/kg	0.0289	0.0280	87.5	31-120	2.93	30	L522275-03	WG542654	
Acenaphthylene	mg/kg	0.0283	0.0271	85.6	34-116	4.06	29	L522275-03	WG542654	
Anthracene	mg/kg	0.0294	0.0277	89.1	32-131	6.03	26	L522275-03	WG542654	
Benzo(a)anthracene	mg/kg	0.0260	0.0243	78.9	32-131	6.94	31	L522275-03	WG542654	
Benzo(a)pyrene	mg/kg	0.0366	0.0351	111.	28-130	4.38	28	L522275-03	WG542654	
Benzo(b)fluoranthene	mg/kg	0.0355	0.0348	107.	37-130	1.91	41	L522275-03	WG542654	
Benzo(g,h,i)perylene	mg/kg	0.0154	0.0117	46.5	10-134	26.9*	26	L522275-03	WG542654	
Benzo(k)fluoranthene	mg/kg	0.0573	0.0496	174.*	31-129	14.4	42	L522275-03	WG542654	
Chrysene	mg/kg	0.0323	0.0326	97.9	25-137	0.811	22	L522275-03	WG542654	
Dibenz(a,h)anthracene	mg/kg	0.0185	0.0149	56.1	20-134	21.3	25	L522275-03	WG542654	
Fluoranthene	mg/kg	0.0317	0.0307	96.1	27-138	3.16	35	L522275-03	WG542654	
Fluorene	mg/kg	0.0303	0.0295	91.7	26-136	2.56	30	L522275-03	WG542654	
Indeno(1,2,3-cd)pyrene	mg/kg	0.0173	0.0138	52.4	16-135	22.6	26	L522275-03	WG542654	
Naphthalene	mg/kg	0.0246	0.0235	74.5	22-121	4.62	30	L522275-03	WG542654	
Phenanthrene	mg/kg	0.0287	0.0273	86.9	27-133	4.87	36	L522275-03	WG542654	
Pyrene	mg/kg	0.0543	0.0429	165.*	22-133	23.6	33	L522275-03	WG542654	
2-Fluorobiphenyl				81.57	33-114				WG542654	
Nitrobenzene-d5				70.34	21-120				WG542654	
p-Terphenyl-d14				150.2*	18-142				WG542654	
Chromium,Hexavalent	mg/kg	0.0400	7.08	0.200*	50-150	198.*	20	L522655-01	WG542576	

Batch number /Run number / Sample number cross reference

WG542709: R1739949: L523059-01
 WG542665: R1740409: L523059-01
 WG542646: R1740970: L523059-01
 WG542685: R1741532: L523059-01
 WG542654: R1742729: L523059-01
 WG542704: R1742771: L523059-01
 WG542673: R1742778: L523059-01
 WG542576: R1743452: L523059-01
 WG542807: R1743609: L523059-01
 WG543151: R1744529: L523059-01

* * 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.