

Analytes (BDL = Below Detection Limit; ND = Non Detect)

Allowable Concentration -->				Organic Compounds in Soil (mg/kg [ppm])																	Inorganics in Soil			Metals in Soil (mg/kg [ppm])															
Location	Sample Date:	Sample Matrix	Matrix Notes	500	TPH (total volatile and extractable petroleum hydrocarbons)	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C36) High Fraction	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
O1EB	12/01/10	Cuttings		272		22	250	0.064	0.25	0.075	0.54	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.06	BDL	0.26	BDL	3.2	25	11	2.7	8000	BDL	13	BDL	14	6.5	0.027	9.8	5.7	BDL	39



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Est. 1970

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

Report Summary

Thursday December 16, 2010

Report Number: L492116

Samples Received: 12/04/10

Client Project:

Description: 01EB

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:

T. Alan Harvill , 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

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

December 16, 2010

Date Received : December 04, 2010
Description : 01EB

Sample ID : 01EB-C-12110

Collected By : Jake Harris
Collection Date : 12/01/10 13:30

ESC Sample # : L492116-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	12/09/10	1
Chromium, Trivalent	13.	0.50	mg/kg	Calc.	12/15/10	1
ORP	9.0		mV	2580	12/06/10	1
pH	11.		su	9045D	12/08/10	1
Sodium Adsorption Ratio	25.			Calc.	12/10/10	1
Specific Conductance	3200		umhos/cm	9050AMod	12/08/10	1
Mercury	0.027	0.020	mg/kg	7471	12/09/10	1
Arsenic	2.7	1.0	mg/kg	6010B	12/15/10	1
Barium	8000	1.2	mg/kg	6010B	12/15/10	5
Cadmium	BDL	0.25	mg/kg	6010B	12/15/10	1
Chromium	13.	0.50	mg/kg	6010B	12/15/10	1
Copper	14.	1.0	mg/kg	6010B	12/15/10	1
Lead	6.5	0.25	mg/kg	6010B	12/15/10	1
Nickel	9.8	1.0	mg/kg	6010B	12/15/10	1
Selenium	5.7	1.0	mg/kg	6010B	12/15/10	1
Silver	BDL	0.50	mg/kg	6010B	12/15/10	1
Zinc	39.	1.5	mg/kg	6010B	12/15/10	1
Benzene	0.064	0.025	mg/kg	8021/8015	12/06/10	50
Toluene	0.25	0.25	mg/kg	8021/8015	12/06/10	50
Ethylbenzene	0.075	0.025	mg/kg	8021/8015	12/06/10	50
Total Xylene	0.54	0.075	mg/kg	8021/8015	12/06/10	50
TPH (GC/FID) Low Fraction	22.	5.0	mg/kg	GRO	12/06/10	50
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	95.6		% Rec.	8021/8015	12/06/10	50
a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021/8015	12/06/10	50
TPH (GC/FID) High Fraction	250	20.	mg/kg	3546/DRO	12/09/10	5
Surrogate recovery(%)						
o-Terphenyl	73.3		% Rec.	3546/DRO	12/09/10	5
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.060	mg/kg	8270C-SIM	12/07/10	10
Acenaphthene	BDL	0.060	mg/kg	8270C-SIM	12/07/10	10
Acenaphthylene	BDL	0.060	mg/kg	8270C-SIM	12/07/10	10
Benzo(a)anthracene	BDL	0.060	mg/kg	8270C-SIM	12/07/10	10
Benzo(a)pyrene	BDL	0.060	mg/kg	8270C-SIM	12/07/10	10

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L492116-01 (PH) - 11@18.4c



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Date Received : December 04, 2010
Description : 01EB

Sample ID : 01EB-C-12110

Collected By : Jake Harris
Collection Date : 12/01/10 13:30

ESC Sample # : L492116-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.060	mg/kg	8270C-SIM	12/07/10	10
Benzo(g,h,i)perylene	BDL	0.060	mg/kg	8270C-SIM	12/07/10	10
Benzo(k)fluoranthene	BDL	0.060	mg/kg	8270C-SIM	12/07/10	10
Chrysene	BDL	0.060	mg/kg	8270C-SIM	12/07/10	10
Dibenz(a,h)anthracene	BDL	0.060	mg/kg	8270C-SIM	12/07/10	10
Fluoranthene	BDL	0.060	mg/kg	8270C-SIM	12/07/10	10
Fluorene	0.060	0.060	mg/kg	8270C-SIM	12/07/10	10
Indeno(1,2,3-cd)pyrene	BDL	0.060	mg/kg	8270C-SIM	12/07/10	10
Naphthalene	0.26	0.12	mg/kg	8270C-SIM	12/08/10	20
Phenanthrene	0.096	0.060	mg/kg	8270C-SIM	12/07/10	10
Pyrene	BDL	0.060	mg/kg	8270C-SIM	12/07/10	10
1-Methylnaphthalene	0.37	0.12	mg/kg	8270C-SIM	12/08/10	20
2-Methylnaphthalene	0.74	0.12	mg/kg	8270C-SIM	12/08/10	20
2-Chloronaphthalene	BDL	0.060	mg/kg	8270C-SIM	12/07/10	10
Surrogate Recovery						
Nitrobenzene-d5	0.00		% Rec.	8270C-SIM	12/08/10	20
2-Fluorobiphenyl	71.0		% Rec.	8270C-SIM	12/07/10	10
p-Terphenyl-d14	104.		% Rec.	8270C-SIM	12/07/10	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: 12/16/10 09:46 Printed: 12/16/10 09:46
L492116-01 (PH) - 11@18.4c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L492116-01	WG511609	SAMP	Nitrobenzene-d5	R1500431	J7

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out

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
12/16/10 at 09:46:49

TSR Signing Reports: 358
R5 - Desired TAT

Log all samples beginning with different sample numbers to separate reports. Ex.- M34 N PIT and M34 S PIT go on one L#, but M34 S PIT and E34 S PIT go on separate L #s. Log project # as project name.

Sample: L492116-01 Account: ENCANACO Received: 12/04/10 09:00 Due Date: 12/10/10 00:00 RPT Date: 12/16/10 09:46



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Quality Assurance Report
Level II

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Est. 1970

December 16, 2010

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/kg			WG511652	12/05/10 20:18
Ethylbenzene	< .0005	mg/kg			WG511652	12/05/10 20:18
Toluene	< .005	mg/kg			WG511652	12/05/10 20:18
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG511652	12/05/10 20:18
Total Xylene	< .0015	mg/kg			WG511652	12/05/10 20:18
a,a,a-Trifluorotoluene(FID)		% Rec.	96.59	59-128	WG511652	12/05/10 20:18
a,a,a-Trifluorotoluene(PID)		% Rec.	104.7	54-144	WG511652	12/05/10 20:18
1-Methylnaphthalene	< .006	mg/kg			WG511609	12/07/10 12:22
2-Chloronaphthalene	< .006	mg/kg			WG511609	12/07/10 12:22
2-Methylnaphthalene	< .006	mg/kg			WG511609	12/07/10 12:22
Acenaphthene	< .006	mg/kg			WG511609	12/07/10 12:22
Acenaphthylene	< .006	mg/kg			WG511609	12/07/10 12:22
Anthracene	< .006	mg/kg			WG511609	12/07/10 12:22
Benzo(a)anthracene	< .006	mg/kg			WG511609	12/07/10 12:22
Benzo(a)pyrene	< .006	mg/kg			WG511609	12/07/10 12:22
Benzo(b)fluoranthene	< .006	mg/kg			WG511609	12/07/10 12:22
Benzo(g,h,i)perylene	< .006	mg/kg			WG511609	12/07/10 12:22
Benzo(k)fluoranthene	< .006	mg/kg			WG511609	12/07/10 12:22
Chrysene	< .006	mg/kg			WG511609	12/07/10 12:22
Dibenz(a,h)anthracene	< .006	mg/kg			WG511609	12/07/10 12:22
Fluoranthene	< .006	mg/kg			WG511609	12/07/10 12:22
Fluorene	< .006	mg/kg			WG511609	12/07/10 12:22
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG511609	12/07/10 12:22
Naphthalene	< .006	mg/kg			WG511609	12/07/10 12:22
Phenanthrene	< .006	mg/kg			WG511609	12/07/10 12:22
Pyrene	< .006	mg/kg			WG511609	12/07/10 12:22
2-Fluorobiphenyl		% Rec.	97.15	21-120	WG511609	12/07/10 12:22
Nitrobenzene-d5		% Rec.	87.10	33-114	WG511609	12/07/10 12:22
p-Terphenyl-d14		% Rec.	100.6	18-142	WG511609	12/07/10 12:22
pH	4.30	su			WG512076	12/08/10 11:53
Specific Conductance	0.870	umhos/cm			WG512282	12/08/10 17:57
Chromium,Hexavalent	< 2	mg/kg			WG511936	12/09/10 08:54
TPH (GC/FID) High Fraction	< 4	ppm			WG512199	12/09/10 08:45
o-Terphenyl		% Rec.	100.4	50-150	WG512199	12/09/10 08:45
Mercury	< .02	mg/kg			WG512081	12/09/10 10:13
Arsenic	< 1	mg/kg			WG511903	12/15/10 10:23
Barium	< .25	mg/kg			WG511903	12/15/10 10:23
Cadmium	< .25	mg/kg			WG511903	12/15/10 10:23
Chromium	< .5	mg/kg			WG511903	12/15/10 10:23
Copper	< 1	mg/kg			WG511903	12/15/10 10:23
Lead	< .25	mg/kg			WG511903	12/15/10 10:23
Nickel	< 1	mg/kg			WG511903	12/15/10 10:23
Selenium	< 1	mg/kg			WG511903	12/15/10 10:23
Silver	< .5	mg/kg			WG511903	12/15/10 10:23
Zinc	< 1.5	mg/kg			WG511903	12/15/10 13:27

* 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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L492116

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Est. 1970

December 16, 2010

Analyte	Units	Result	Duplicate		RPD	Limit	Ref Samp	Batch
			Duplicate					
ORP	mV	14.0	21.0		40.0*	20	L492056-04	WG511786
ORP	mV	5.00	8.00		46.2*	20	L492124-03	WG511786
pH	su	8.50	8.40		1.18*	1	L492052-02	WG512076
pH	su	9.70	9.60		1.04*	1	L492329-03	WG512076
Specific Conductance	umhos/cm	11000	11000		2.30	20	L491699-01	WG512282
Specific Conductance	umhos/cm	1100	1300		14.9	20	L492329-03	WG512282
Chromium,Hexavalent	mg/kg	0	0		0	20	L492056-06	WG511936
Chromium,Hexavalent	mg/kg	0	0		0	20	L492198-02	WG511936
Mercury	mg/kg	0	0.0110		NA	20	L492079-16	WG512081
Arsenic	mg/kg	16.0	23.0		33.5*	20	L492079-22	WG511903
Barium	mg/kg	51.0	56.0		9.35	20	L492079-22	WG511903
Cadmium	mg/kg	0	0		0	20	L492079-22	WG511903
Chromium	mg/kg	27.0	31.0		15.3	20	L492079-22	WG511903
Nickel	mg/kg	29.0	34.3		17.1	20	L492079-22	WG511903
Selenium	mg/kg	1.80	0.800		76.0*	20	L492079-22	WG511903
Silver	mg/kg	0	0		0	20	L492079-22	WG511903
Zinc	mg/kg	110.	130.		18.5	20	L492079-22	WG511903
Copper	mg/kg	10.0	13.1		23.9*	20	L492079-22	WG511903
Lead	mg/kg	19.0	27.0		35.3*	20	L492079-22	WG511903

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/kg	.05	0.0523	105.	76-113	WG511652
Ethylbenzene	mg/kg	.05	0.0568	114.	78-115	WG511652
Toluene	mg/kg	.05	0.0515	103.	76-114	WG511652
Total Xylene	mg/kg	.15	0.160	107.	81-118	WG511652
a,a,a-Trifluorotoluene(FID)				97.20	59-128	WG511652
a,a,a-Trifluorotoluene(PID)				104.2	54-144	WG511652
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.76	123.	67-135	WG511652
a,a,a-Trifluorotoluene(FID)				105.3	59-128	WG511652
a,a,a-Trifluorotoluene(PID)				114.7	54-144	WG511652
ORP	mV	229	220.	96.1	95.6-104.37	WG511786
1-Methylnaphthalene	mg/kg	.033	0.0297	89.9	41-110	WG511609
2-Chloronaphthalene	mg/kg	.033	0.0317	96.2	43-109	WG511609
2-Methylnaphthalene	mg/kg	.033	0.0317	96.1	38-104	WG511609
Acenaphthene	mg/kg	.033	0.0317	96.1	48-103	WG511609
Acenaphthylene	mg/kg	.033	0.0292	88.3	43-106	WG511609
Anthracene	mg/kg	.033	0.0316	95.7	51-110	WG511609
Benzo(a)anthracene	mg/kg	.033	0.0277	84.0	38-126	WG511609
Benzo(a)pyrene	mg/kg	.033	0.0298	90.3	47-118	WG511609
Benzo(b)fluoranthene	mg/kg	.033	0.0296	89.8	47-118	WG511609
Benzo(g,h,i)perylene	mg/kg	.033	0.0251	76.0	40-125	WG511609
Benzo(k)fluoranthene	mg/kg	.033	0.0326	98.7	45-121	WG511609
Chrysene	mg/kg	.033	0.0313	95.0	35-135	WG511609

* 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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L492116

December 16, 2010

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch		
		Known Val	Result					
Dibenz(a,h)anthracene	mg/kg	.033	0.0259	78.6	41-124	WG511609		
Fluoranthene	mg/kg	.033	0.0332	101.	50-114	WG511609		
Fluorene	mg/kg	.033	0.0292	88.3	49-109	WG511609		
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0255	77.3	40-126	WG511609		
Naphthalene	mg/kg	.033	0.0288	87.2	36-100	WG511609		
Phenanthrene	mg/kg	.033	0.0295	89.4	46-108	WG511609		
Pyrene	mg/kg	.033	0.0317	96.1	30-136	WG511609		
2-Fluorobiphenyl				91.89	33-114	WG511609		
Nitrobenzene-d5				84.38	21-120	WG511609		
p-Terphenyl-d14				97.49	18-142	WG511609		
pH	su	6.92	7.00	101.	97.98-102.02	WG512076		
Specific Conductance	umhos/cm	406	390.	96.1	85-115	WG512282		
Chromium,Hexavalent	mg/kg	100	93.9	93.9	50-143	WG511936		
TPH (GC/FID) High Fraction	ppm	60	49.8	83.0	50-150	WG512199		
o-Terphenyl				83.40	50-150	WG512199		
Mercury	mg/kg	8.77	6.36	72.5	71.6-127.7	WG512081		
Arsenic	mg/kg	192	170.	88.5	78.6-120.8	WG511903		
Barium	mg/kg	420	384.	91.4	78.8-121.4	WG511903		
Cadmium	mg/kg	70.1	61.4	87.6	78.5-121.5	WG511903		
Chromium	mg/kg	168	158.	94.0	80.4-120.2	WG511903		
Copper	mg/kg	122	122.	100.	81.6-119.7	WG511903		
Lead	mg/kg	113	96.6	85.5	77.3-122.1	WG511903		
Nickel	mg/kg	74.1	67.0	90.4	78.8-121.2	WG511903		
Selenium	mg/kg	176	163.	92.6	75.6-125.0	WG511903		
Silver	mg/kg	115	103.	89.6	66-133.9	WG511903		
Zinc	mg/kg	437	405.	92.7	78.5-121.7	WG511903		
Analyte	Units	Laboratory Control Sample Duplicate		%Rec	Limit	RPD	Limit	Batch
		Result	Ref					
TPH (GC/FID) Low Fraction	mg/kg	6.69	6.76	122.	67-135	0.940	20	WG511652
a,a,a-Trifluorotoluene(FID)				105.0	59-128			WG511652
a,a,a-Trifluorotoluene(PID)				115.3	54-144			WG511652
Benzene	mg/kg	0.0509	0.0523	102.	76-113	2.57	20	WG511652
Ethylbenzene	mg/kg	0.0549	0.0568	110.	78-115	3.43	20	WG511652
Toluene	mg/kg	0.0508	0.0515	102.	76-114	1.31	20	WG511652
Total Xylene	mg/kg	0.155	0.160	103.	81-118	3.23	20	WG511652
a,a,a-Trifluorotoluene(FID)				97.27	59-128			WG511652
a,a,a-Trifluorotoluene(PID)				104.1	54-144			WG511652
ORP	mV	220.	220.	96.0	95.6-104.37	0	20	WG511786
1-Methylnaphthalene	mg/kg	0.0310	0.0297	94.0	41-110	4.42	24	WG511609
2-Chloronaphthalene	mg/kg	0.0322	0.0317	98.0	43-109	1.53	21	WG511609
2-Methylnapthalene	mg/kg	0.0314	0.0317	95.0	38-104	1.04	24	WG511609

* Performance of this Analyte is outside of established criteria.

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Parachute, CO 81635

Quality Assurance Report
Level II

L492116

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1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

December 16, 2010

Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec					
Acenaphthene	mg/kg	0.0315	0.0317	95.0		48-103	0.656	20	WG511609
Acenaphthylene	mg/kg	0.0309	0.0292	94.0		43-106	5.76	20	WG511609
Anthracene	mg/kg	0.0311	0.0316	94.0		51-110	1.63	22	WG511609
Benzo(a)anthracene	mg/kg	0.0279	0.0277	84.0		38-126	0.452	20	WG511609
Benzo(a)pyrene	mg/kg	0.0309	0.0298	94.0		47-118	3.52	20	WG511609
Benzo(b)fluoranthene	mg/kg	0.0301	0.0296	91.0		47-118	1.47	29	WG511609
Benzo(g,h,i)perylene	mg/kg	0.0261	0.0251	79.0		40-125	4.11	20	WG511609
Benzo(k)fluoranthene	mg/kg	0.0318	0.0326	96.0		45-121	2.23	31	WG511609
Chrysene	mg/kg	0.0320	0.0313	97.0		35-135	1.93	20	WG511609
Dibenz(a,h)anthracene	mg/kg	0.0283	0.0259	86.0		41-124	8.66	20	WG511609
Fluoranthene	mg/kg	0.0315	0.0332	95.0		50-114	5.36	20	WG511609
Fluorene	mg/kg	0.0301	0.0292	91.0		49-109	3.23	19	WG511609
Indeno(1,2,3-cd)pyrene	mg/kg	0.0268	0.0255	81.0		40-126	4.97	20	WG511609
Naphthalene	mg/kg	0.0305	0.0288	92.0		36-100	5.84	24	WG511609
Phenanthrene	mg/kg	0.0297	0.0295	90.0		46-108	0.810	21	WG511609
Pyrene	mg/kg	0.0322	0.0317	98.0		30-136	1.47	20	WG511609
2-Fluorobiphenyl				95.72		33-114			WG511609
Nitrobenzene-d5				90.69		21-120			WG511609
p-Terphenyl-d14				98.09		18-142			WG511609
pH	su	7.00	7.00	101.		97.98-102.02	0	20	WG512076
Specific Conductance	umhos/	390.	390.	96.0		85-115	0	20	WG512282
Chromium, Hexavalent	mg/kg	88.7	93.9	89.0		50-143	5.70	20	WG511936
TPH (GC/FID) High Fraction	ppm	49.0	49.8	82.0		50-150	1.69	25	WG512199
o-Terphenyl				79.19		50-150			WG512199

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
Benzene	mg/kg	0.217	0.00660	.05	84.2	32-137	L492056-02	WG511652
Ethylbenzene	mg/kg	0.195	0.00320	.05	76.8	10-150	L492056-02	WG511652
Toluene	mg/kg	0.202	0	.05	81.0	20-142	L492056-02	WG511652
Total Xylene	mg/kg	0.541	0.0240	.15	68.9	16-141	L492056-02	WG511652
a,a,a-Trifluorotoluene(FID)					94.44	59-128		WG511652
a,a,a-Trifluorotoluene(PID)					99.99	54-144		WG511652
TPH (GC/FID) Low Fraction	mg/kg	15.4	0	5.5	55.9	55-109	L492056-02	WG511652
a,a,a-Trifluorotoluene(FID)					96.70	59-128		WG511652
a,a,a-Trifluorotoluene(PID)					105.1	54-144		WG511652
1-Methylnaphthalene	mg/kg	0.0343	0.00237	.033	96.6	19-131	L492132-01	WG511609
2-Chloronaphthalene	mg/kg	0.0353	0	.033	107.	38-117	L492132-01	WG511609
2-Methylnaphthalene	mg/kg	0.0404	0.00423	.033	110.	18-125	L492132-01	WG511609
Acenaphthene	mg/kg	0.0329	0	.033	99.8	31-120	L492132-01	WG511609
Acenaphthylene	mg/kg	0.0331	0	.033	100.	34-116	L492132-01	WG511609
Anthracene	mg/kg	0.0363	0	.033	110.	32-131	L492132-01	WG511609
Benzo(a)anthracene	mg/kg	0.0306	0	.033	92.6	32-131	L492132-01	WG511609
Benzo(a)pyrene	mg/kg	0.0334	0	.033	101.	28-130	L492132-01	WG511609
Benzo(b)fluoranthene	mg/kg	0.0326	0	.033	98.8	37-130	L492132-01	WG511609
Benzo(g,h,i)perylene	mg/kg	0.0271	0	.033	82.1	10-134	L492132-01	WG511609
Benzo(k)fluoranthene	mg/kg	0.0316	0	.033	95.6	31-129	L492132-01	WG511609
Chrysene	mg/kg	0.0319	0	.033	96.6	25-137	L492132-01	WG511609

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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Dibenz(a,h)anthracene	mg/kg	0.0259	0	.033	78.3	20-134	L492132-01	WG511609
Fluoranthene	mg/kg	0.0374	0	.033	113.	27-138	L492132-01	WG511609
Fluorene	mg/kg	0.0362	0	.033	110.	26-136	L492132-01	WG511609
Indeno(1,2,3-cd)pyrene	mg/kg	0.0273	0	.033	82.8	16-135	L492132-01	WG511609
Naphthalene	mg/kg	0.0332	0	.033	100.	22-121	L492132-01	WG511609
Phenanthrene	mg/kg	0.0399	0	.033	121.	27-133	L492132-01	WG511609
Pyrene	mg/kg	0.0342	0	.033	104.	22-133	L492132-01	WG511609
2-Fluorobiphenyl					100.9	33-114		WG511609
Nitrobenzene-d5					100.9	21-120		WG511609
p-Terphenyl-d14					102.7	18-142		WG511609
Chromium, Hexavalent	mg/kg	2.38	0	20	11.9*	50-150	L492056-02	WG511936
Mercury	mg/kg	0.244	0.0110	.25	93.2	70-130	L492079-16	WG512081
Arsenic	mg/kg	77.5	23.0	50	109.	75-125	L492079-22	WG511903
Barium	mg/kg	92.0	56.0	50	72.0*	75-125	L492079-22	WG511903
Cadmium	mg/kg	54.6	0	50	109.	75-125	L492079-22	WG511903
Chromium	mg/kg	75.0	31.0	50	88.0	75-125	L492079-22	WG511903
Nickel	mg/kg	73.7	34.3	50	78.8	75-125	L492079-22	WG511903
Selenium	mg/kg	58.8	0.800	50	116.	75-125	L492079-22	WG511903
Silver	mg/kg	50.4	0	50	101.	75-125	L492079-22	WG511903
Zinc	mg/kg	155.	130.	50	50.0*	75-125	L492079-22	WG511903
Copper	mg/kg	61.8	13.1	10	97.4	75-125	L492079-22	WG511903
Lead	mg/kg	66.9	27.0	10	79.8	75-125	L492079-22	WG511903

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Benzene	mg/kg	0.226	0.217	87.9	32-137	4.21	39	L492056-02	WG511652
Ethylbenzene	mg/kg	0.182	0.195	71.5	10-150	7.11	44	L492056-02	WG511652
Toluene	mg/kg	0.202	0.202	80.7	20-142	0.350	42	L492056-02	WG511652
Total Xylene	mg/kg	0.507	0.541	64.3	16-141	6.50	46	L492056-02	WG511652
a,a,a-Trifluorotoluene(FID)				95.86	59-128				WG511652
a,a,a-Trifluorotoluene(PID)				101.7	54-144				WG511652
TPH (GC/FID) Low Fraction	mg/kg	13.7	15.4	49.7*	55-109	11.7	20	L492056-02	WG511652
a,a,a-Trifluorotoluene(FID)				96.69	59-128				WG511652
a,a,a-Trifluorotoluene(PID)				106.0	54-144				WG511652
1-Methylnaphthalene	mg/kg	0.0340	0.0343	95.9	19-131	0.687	30	L492132-01	WG511609
2-Chloronaphthalene	mg/kg	0.0341	0.0353	103.	38-117	3.46	26	L492132-01	WG511609
2-Methylnaphthalene	mg/kg	0.0357	0.0404	95.2	18-125	12.4	29	L492132-01	WG511609
Acenaphthene	mg/kg	0.0316	0.0329	95.7	31-120	4.21	30	L492132-01	WG511609
Acenaphthylene	mg/kg	0.0311	0.0331	94.1	34-116	6.48	29	L492132-01	WG511609
Anthracene	mg/kg	0.0302	0.0363	91.6	32-131	18.3	26	L492132-01	WG511609
Benzo(a)anthracene	mg/kg	0.0291	0.0306	88.1	32-131	4.93	31	L492132-01	WG511609
Benzo(a)pyrene	mg/kg	0.0326	0.0334	98.8	28-130	2.50	28	L492132-01	WG511609
Benzo(b)fluoranthene	mg/kg	0.0323	0.0326	97.8	37-130	0.914	41	L492132-01	WG511609
Benzo(g,h,i)perylene	mg/kg	0.0258	0.0271	78.0	10-134	5.04	26	L492132-01	WG511609
Benzo(k)fluoranthene	mg/kg	0.0302	0.0316	91.5	31-129	4.41	42	L492132-01	WG511609
Chrysene	mg/kg	0.0306	0.0319	92.7	25-137	4.11	22	L492132-01	WG511609
Dibenz(a,h)anthracene	mg/kg	0.0255	0.0259	77.3	20-134	1.35	25	L492132-01	WG511609
Fluoranthene	mg/kg	0.0315	0.0374	95.4	27-138	17.3	35	L492132-01	WG511609
Fluorene	mg/kg	0.0315	0.0362	95.4	26-136	14.1	30	L492132-01	WG511609
Indeno(1,2,3-cd)pyrene	mg/kg	0.0261	0.0273	79.2	16-135	4.46	26	L492132-01	WG511609

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Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Naphthalene	mg/kg	0.0320	0.0332	96.9	22-121	3.61	30	L492132-01	WG511609
Phenanthrene	mg/kg	0.0306	0.0399	92.7	27-133	26.4	36	L492132-01	WG511609
Pyrene	mg/kg	0.0320	0.0342	96.9	22-133	6.62	33	L492132-01	WG511609
2-Fluorobiphenyl				98.02	33-114				WG511609
Nitrobenzene-d5				98.73	21-120				WG511609
p-Terphenyl-d14				100.4	18-142				WG511609
Chromium, Hexavalent	mg/kg	2.87	2.38	14.4*	50-150	18.7	20	L492056-02	WG511936
Mercury	mg/kg	0.250	0.244	95.6	70-130	2.43	20	L492079-16	WG512081
Arsenic	mg/kg	61.2	77.5	76.4	75-125	23.5*	20	L492079-22	WG511903
Barium	mg/kg	83.5	92.0	55.0*	75-125	9.69	20	L492079-22	WG511903
Cadmium	mg/kg	45.4	54.6	90.8	75-125	18.4	20	L492079-22	WG511903
Chromium	mg/kg	66.7	75.0	71.4*	75-125	11.7	20	L492079-22	WG511903
Nickel	mg/kg	70.3	73.7	72.0*	75-125	4.72	20	L492079-22	WG511903
Selenium	mg/kg	49.1	58.8	96.6	75-125	18.0	20	L492079-22	WG511903
Silver	mg/kg	47.4	50.4	94.8	75-125	6.13	20	L492079-22	WG511903
Zinc	mg/kg	118.	155.	0*	75-125	27.1*	20	L492079-22	WG511903
Copper	mg/kg	60.0	61.8	93.8	75-125	2.96	20	L492079-22	WG511903
Lead	mg/kg	66.6	66.9	79.2	75-125	0.449	20	L492079-22	WG511903

Batch number / Run number / Sample number cross reference

WG511652: R1499220: L492116-01
WG511786: R1499402: L492116-01
WG511609: R1500431: L492116-01
WG512076: R1500552: L492116-01
WG512282: R1501101: L492116-01
WG511936: R1501102: L492116-01
WG512199: R1501310: L492116-01
WG512081: R1501459: L492116-01
WG511734: R1502049: L492116-01
WG511903: R1505669: L492116-01

* * 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.