

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
								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	Napthalene	Pyrene	EC (<4 mmhos/cm or 2x background)	SAR (calculation)	pH	Arsenic	Barium - EPA Total Barium	Cadmium	Chromium (II)	Chromium (VI)	Copper	Lead (inorganic)	Mercury	Nicke(soluble salts)	Selenium	Silver	Zinc
E09	11/10/10	Cuttings		21.68	0.68	21	BDL	BDL	BDL	BDL	BDL	BDL	0.02	BDL	BDL	BDL	0.05	BDL	BDL	BDL	BDL	0.034	BDL	2.5	24	8.1	1	140	BDL	10	BDL	10	5.3	0.02	13	2.5	BDL	32	



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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

Tuesday November 23, 2010

Report Number: L488481

Samples Received: 11/11/10

Client Project: E09

Description: E09

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 - 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

November 23, 2010

Date Received : November 11, 2010
Description : E09

Sample ID : E09-C-111010

Collected By : Jake Harris
Collection Date : 11/10/10 14:15

ESC Sample # : L488481-01

Site ID :

Project # : E09

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	11/17/10	1
Chromium, Trivalent	10.	0.50	mg/kg	Calc.	11/22/10	1
ORP	-68.		mV	2580	11/15/10	1
pH	8.1		su	9045D	11/16/10	1
Sodium Adsorption Ratio	24.			Calc.	11/14/10	1
Specific Conductance	2500		umhos/cm	9050AMod	11/16/10	1
Mercury	BDL	0.020	mg/kg	7471	11/12/10	1
Arsenic	1.0	1.0	mg/kg	6010B	11/22/10	1
Barium	140	0.25	mg/kg	6010B	11/22/10	1
Cadmium	BDL	0.25	mg/kg	6010B	11/22/10	1
Chromium	10.	0.50	mg/kg	6010B	11/22/10	1
Copper	10.	1.0	mg/kg	6010B	11/22/10	1
Lead	5.3	0.25	mg/kg	6010B	11/22/10	1
Nickel	13.	1.0	mg/kg	6010B	11/22/10	1
Selenium	2.5	1.0	mg/kg	6010B	11/22/10	1
Silver	BDL	0.50	mg/kg	6010B	11/22/10	1
Zinc	32.	1.5	mg/kg	6010B	11/22/10	1
Benzene	BDL	0.0025	mg/kg	8021/8015	11/16/10	5
Toluene	BDL	0.025	mg/kg	8021/8015	11/16/10	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	11/16/10	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	11/16/10	5
TPH (GC/FID) Low Fraction	0.68	0.50	mg/kg	GRO	11/16/10	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	97.3		% Rec.	8021/8015	11/16/10	5
a,a,a-Trifluorotoluene(PID)	100.		% Rec.	8021/8015	11/16/10	5
TPH (GC/FID) High Fraction	21.	4.0	mg/kg	3546/DRO	11/22/10	1
Surrogate recovery(%)						
o-Terphenyl	68.9		% Rec.	3546/DRO	11/22/10	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	11/16/10	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	11/16/10	1
Acenaphthylene	0.0070	0.0060	mg/kg	8270C-SIM	11/16/10	1
Benzo(a)anthracene	0.020	0.0060	mg/kg	8270C-SIM	11/16/10	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	11/16/10	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L488481-01 (PH) - 8.1@18.4C



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

November 23, 2010

Date Received : November 11, 2010
Description : EO9

Sample ID : EO9-C-111010

Collected By : Jake Harris
Collection Date : 11/10/10 14:15

ESC Sample # : L488481-01

Site ID :

Project # : EO9

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	11/16/10	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	11/16/10	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	11/16/10	1
Chrysene	0.050	0.0060	mg/kg	8270C-SIM	11/16/10	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	11/16/10	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	11/16/10	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	11/16/10	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	11/16/10	1
Naphthalene	0.034	0.0060	mg/kg	8270C-SIM	11/16/10	1
Phenanthrene	0.012	0.0060	mg/kg	8270C-SIM	11/16/10	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	11/16/10	1
1-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	11/16/10	1
2-Methylnaphthalene	0.012	0.0060	mg/kg	8270C-SIM	11/16/10	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	11/16/10	1
Surrogate Recovery						
Nitrobenzene-d5	117.		% Rec.	8270C-SIM	11/16/10	1
2-Fluorobiphenyl	76.1		% Rec.	8270C-SIM	11/16/10	1
p-Terphenyl-d14	97.7		% Rec.	8270C-SIM	11/16/10	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: 11/23/10 15:56 Printed: 11/23/10 16:07
L488481-01 (PH) - 8.1@18.4C

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L488481-01	WG508513	SAMP	2-Methylnaphthalene	R1475311	J4
	WG508513	SAMP	2-Chloronaphthalene	R1475311	J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.

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
11/23/10 at 16:07:03

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: L488481-01 Account: ENCANACO Received: 11/11/10 09:00 Due Date: 11/19/10 00:00 RPT Date: 11/23/10 15:56



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Quality Assurance Report
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November 23, 2010

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Mercury	< .02	mg/kg			WG508103	11/12/10 13:19
pH	4.30	su			WG508424	11/16/10 11:35
Specific Conductance	1.30	umhos/cm			WG508646	11/16/10 14:00
1-Methylnaphthalene	< .006	mg/kg			WG508513	11/15/10 15:23
2-Chloronaphthalene	< .006	mg/kg			WG508513	11/15/10 15:23
2-Methylnaphthalene	< .006	mg/kg			WG508513	11/15/10 15:23
Acenaphthene	< .006	mg/kg			WG508513	11/15/10 15:23
Acenaphthylene	< .006	mg/kg			WG508513	11/15/10 15:23
Anthracene	< .006	mg/kg			WG508513	11/15/10 15:23
Benzo(a)anthracene	< .006	mg/kg			WG508513	11/15/10 15:23
Benzo(a)pyrene	< .006	mg/kg			WG508513	11/15/10 15:23
Benzo(b)fluoranthene	< .006	mg/kg			WG508513	11/15/10 15:23
Benzo(g,h,i)perylene	< .006	mg/kg			WG508513	11/15/10 15:23
Benzo(k)fluoranthene	< .006	mg/kg			WG508513	11/15/10 15:23
Chrysene	< .006	mg/kg			WG508513	11/15/10 15:23
Dibenz(a,h)anthracene	< .006	mg/kg			WG508513	11/15/10 15:23
Fluoranthene	< .006	mg/kg			WG508513	11/15/10 15:23
Fluorene	< .006	mg/kg			WG508513	11/15/10 15:23
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG508513	11/15/10 15:23
Naphthalene	< .006	mg/kg			WG508513	11/15/10 15:23
Phenanthrene	< .006	mg/kg			WG508513	11/15/10 15:23
Pyrene	< .006	mg/kg			WG508513	11/15/10 15:23
2-Fluorobiphenyl		% Rec.	101.6	21-120	WG508513	11/15/10 15:23
Nitrobenzene-d5		% Rec.	86.10	33-114	WG508513	11/15/10 15:23
p-Terphenyl-d14		% Rec.	97.60	18-142	WG508513	11/15/10 15:23
Benzene	< .0005	mg/kg			WG508682	11/16/10 15:21
Ethylbenzene	< .0005	mg/kg			WG508682	11/16/10 15:21
Toluene	< .005	mg/kg			WG508682	11/16/10 15:21
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG508682	11/16/10 15:21
Total Xylene	< .0015	mg/kg			WG508682	11/16/10 15:21
a,a,a-Trifluorotoluene(FID)		% Rec.	99.10	59-128	WG508682	11/16/10 15:21
a,a,a-Trifluorotoluene(PID)		% Rec.	101.9	54-144	WG508682	11/16/10 15:21
Chromium,Hexavalent	< 2	mg/kg			WG508316	11/17/10 08:30
TPH (GC/FID) High Fraction	< 4	ppm			WG509610	11/22/10 09:33
o-Terphenyl		% Rec.	80.93	50-150	WG509610	11/22/10 09:33
Arsenic	< 1	mg/kg			WG508479	11/21/10 20:08
Barium	< .25	mg/kg			WG508479	11/21/10 20:08
Cadmium	< .25	mg/kg			WG508479	11/21/10 20:08
Chromium	< .5	mg/kg			WG508479	11/21/10 20:08
Copper	< 1	mg/kg			WG508479	11/21/10 20:08
Lead	< .25	mg/kg			WG508479	11/21/10 20:08
Nickel	< 1	mg/kg			WG508479	11/21/10 20:08
Selenium	< 1	mg/kg			WG508479	11/21/10 20:08
Silver	< .5	mg/kg			WG508479	11/21/10 20:08
Zinc	< 1.5	mg/kg			WG508479	11/21/10 20:08

* 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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November 23, 2010

Analyte	Units	Result	Duplicate		RPD	Limit	Ref Samp	Batch
			Duplicate					
Mercury	mg/kg	0.0340	0.0300		11.6	20	L488524-09	WG508103
ORP	mV	58.0	61.0		5.04	20	L488192-04	WG508348
ORP	mV	0	0		0	20	L488487-05	WG508348
pH	su	6.60	6.60		0	1	L488169-02	WG508424
pH	su	7.90	8.00		1.26*	1	L488813-01	WG508424
Specific Conductance	umhos/cm	2500	2500		1.57	20	L488481-01	WG508646
Chromium, Hexavalent	mg/kg	0	0		0	20	L488208-24	WG508316
Arsenic	mg/kg	3.40	2.80		20.8*	20	L488531-11	WG508479
Barium	mg/kg	41.0	40.0		3.44	20	L488531-11	WG508479
Cadmium	mg/kg	0	0		0	20	L488531-11	WG508479
Chromium	mg/kg	8.40	8.90		5.31	20	L488531-11	WG508479
Copper	mg/kg	7.10	6.53		8.36	20	L488531-11	WG508479
Lead	mg/kg	10.0	14.0		28.6*	20	L488531-11	WG508479
Nickel	mg/kg	17.0	17.0		0.587	20	L488531-11	WG508479
Selenium	mg/kg	5.80	4.60		23.9*	20	L488531-11	WG508479
Silver	mg/kg	0	0		0	20	L488531-11	WG508479
Zinc	mg/kg	42.0	42.0		0.948	20	L488531-11	WG508479

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Mercury	mg/kg	8.77	11.0	125.	71.6-127.7	WG508103
ORP	mV	229	220.	96.1	95.6-104.37	WG508348
pH	su	6.92	7.00	101.	97.98-102.02	WG508424
1-Methylnaphthalene	mg/kg	.033	0.0314	95.3	41-110	WG508513
2-Chloronaphthalene	mg/kg	.033	0.0327	99.2	43-109	WG508513
2-Methylnaphthalene	mg/kg	.033	0.0346	105.*	38-104	WG508513
Acenaphthene	mg/kg	.033	0.0302	91.6	48-103	WG508513
Acenaphthylene	mg/kg	.033	0.0316	95.8	43-106	WG508513
Anthracene	mg/kg	.033	0.0312	94.5	51-110	WG508513
Benzo(a)anthracene	mg/kg	.033	0.0313	95.0	38-126	WG508513
Benzo(a)pyrene	mg/kg	.033	0.0331	100.	47-118	WG508513
Benzo(b)fluoranthene	mg/kg	.033	0.0347	105.	47-118	WG508513
Benzo(g,h,i)perylene	mg/kg	.033	0.0310	93.9	40-125	WG508513
Benzo(k)fluoranthene	mg/kg	.033	0.0322	97.5	45-121	WG508513
Chrysene	mg/kg	.033	0.0328	99.4	35-135	WG508513
Dibenz(a,h)anthracene	mg/kg	.033	0.0322	97.6	41-124	WG508513
Fluoranthene	mg/kg	.033	0.0328	99.5	50-114	WG508513
Fluorene	mg/kg	.033	0.0306	92.8	49-109	WG508513
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0316	95.9	40-126	WG508513
Naphthalene	mg/kg	.033	0.0278	84.2	36-100	WG508513
Phenanthrene	mg/kg	.033	0.0344	104.	46-108	WG508513
Pyrene	mg/kg	.033	0.0338	102.	30-136	WG508513

* Performance of this Analyte is outside of established criteria.

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



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Est. 1970

November 23, 2010

Analyte	Units	Laboratory Control		Sample	% Rec	Limit	Batch
		Known	Val	Result			
2-Fluorobiphenyl					96.01	21-120	
Nitrobenzene-d5					93.11	33-114	
p-Terphenyl-d14					94.42	18-142	
Specific Conductance	umhos/cm	406		400.	98.5	85-115	WG508646
Benzene	mg/kg	.05		0.0537	107.	76-113	WG508682
Ethylbenzene	mg/kg	.05		0.0549	110.	78-115	WG508682
Toluene	mg/kg	.05		0.0559	112.	76-114	WG508682
Total Xylene	mg/kg	.15		0.161	107.	81-118	WG508682
a,a,a-Trifluorotoluene(FID)					97.74	59-128	WG508682
a,a,a-Trifluorotoluene(PID)					101.2	54-144	WG508682
TPH (GC/FID) Low Fraction	mg/kg	5.5		7.05	128.	67-135	WG508682
a,a,a-Trifluorotoluene(FID)					104.2	59-128	WG508682
a,a,a-Trifluorotoluene(PID)					101.1	54-144	WG508682
Chromium,Hexavalent	mg/kg	100		81.0	81.0	50-143	WG508316
TPH (GC/FID) High Fraction	ppm	60		57.7	96.2	50-150	WG509610
o-Terphenyl					71.81	50-150	WG509610
Arsenic	mg/kg	192		183.	95.3	78.6-120.8	WG508479
Barium	mg/kg	420		436.	104.	78.8-121.4	WG508479
Cadmium	mg/kg	70.1		70.9	101.	78.5-121.5	WG508479
Chromium	mg/kg	168		177.	105.	80.4-120.2	WG508479
Copper	mg/kg	122		131.	107.	81.6-119.7	WG508479
Lead	mg/kg	113		108.	95.6	77.3-122.1	WG508479
Nickel	mg/kg	74.1		85.0	115.	78.8-121.2	WG508479
Selenium	mg/kg	176		183.	104.	75.6-125.0	WG508479
Silver	mg/kg	115		114.	99.1	66-133.9	WG508479
Zinc	mg/kg	437		438.	100.	78.5-121.7	WG508479

Analyte	Units	Laboratory Control		Sample Duplicate	Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
ORP	mV	220.	220.	96.0	95.6-104.37	0	20	WG508348
pH	su	7.00	7.00	101.	97.98-102.02	0	20	WG508424
1-Methylnaphthalene	mg/kg	0.0261	0.0314	79.0	41-110	18.7	24	WG508513
2-Chloronaphthalene	mg/kg	0.0262	0.0327	79.0	43-109	22.2*	21	WG508513
2-Methylnaphthalene	mg/kg	0.0308	0.0346	93.0	38-104	11.5	24	WG508513
Acenaphthene	mg/kg	0.0319	0.0302	97.0	48-103	5.30	20	WG508513
Acenaphthylene	mg/kg	0.0317	0.0316	96.0	43-106	0.424	20	WG508513
Anthracene	mg/kg	0.0317	0.0312	96.0	51-110	1.55	22	WG508513
Benzo(a)anthracene	mg/kg	0.0320	0.0313	97.0	38-126	1.97	20	WG508513
Benzo(a)pyrene	mg/kg	0.0336	0.0331	102.	47-118	1.38	20	WG508513
Benzo(b)fluoranthene	mg/kg	0.0320	0.0347	97.0	47-118	8.19	29	WG508513
Benzo(g,h,i)perylene	mg/kg	0.0310	0.0310	94.0	40-125	0.166	20	WG508513
Benzo(k)fluoranthene	mg/kg	0.0342	0.0322	104.	45-121	6.20	31	WG508513
Chrysene	mg/kg	0.0333	0.0328	101.	35-135	1.48	20	WG508513
Dibenz(a,h)anthracene	mg/kg	0.0322	0.0322	98.0	41-124	0.00907	20	WG508513
Fluoranthene	mg/kg	0.0331	0.0328	100.	50-114	0.888	20	WG508513
Fluorene	mg/kg	0.0327	0.0306	99.0	49-109	6.53	19	WG508513

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Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Indeno(1,2,3-cd)pyrene	mg/kg	0.0319	0.0316	97.0	40-126	0.834	20	WG508513
Naphthalene	mg/kg	0.0281	0.0278	85.0	36-100	1.03	24	WG508513
Phenanthrene	mg/kg	0.0348	0.0344	106.	46-108	1.28	21	WG508513
Pyrene	mg/kg	0.0342	0.0338	104.	30-136	1.08	20	WG508513
2-Fluorobiphenyl				95.17	21-120			WG508513
Nitrobenzene-d5				78.43	33-114			WG508513
p-Terphenyl-d14				97.56	18-142			WG508513
Specific Conductance	umhos/	400.	400.	98.0	85-115	0	20	WG508646
Benzene	mg/kg	0.0538	0.0537	108.	76-113	0.130	20	WG508682
Ethylbenzene	mg/kg	0.0552	0.0549	110.	78-115	0.490	20	WG508682
Toluene	mg/kg	0.0563	0.0559	113.	76-114	0.720	20	WG508682
Total Xylene	mg/kg	0.161	0.161	107.	81-118	0.0300	20	WG508682
a,a,a-Trifluorotoluene(FID)				99.32	59-128			WG508682
a,a,a-Trifluorotoluene(PID)				102.6	54-144			WG508682
TPH (GC/FID) Low Fraction	mg/kg	6.72	7.05	122.	67-135	4.84	20	WG508682
a,a,a-Trifluorotoluene(FID)				103.8	59-128			WG508682
a,a,a-Trifluorotoluene(PID)				101.3	54-144			WG508682
Chromium,Hexavalent	mg/kg	91.6	81.0	92.0	50-143	12.3	20	WG508316
TPH (GC/FID) High Fraction	ppm	58.1	57.7	97.0	50-150	0.665	20	WG509610
o-Terphenyl				86.04	50-150			WG509610

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
Mercury	mg/kg	0.317	0.0300	.25	115.	70-130	L488524-09	WG508103
Benzene	mg/kg	0.0396	0.000910	.05	77.3	32-137	L488813-09	WG508682
Ethylbenzene	mg/kg	0.0394	0.00180	.05	75.1	10-150	L488813-09	WG508682
Toluene	mg/kg	0.0413	0	.05	82.6	20-142	L488813-09	WG508682
Total Xylene	mg/kg	0.114	0	.15	75.8	16-141	L488813-09	WG508682
a,a,a-Trifluorotoluene(FID)					97.18	59-128		WG508682
a,a,a-Trifluorotoluene(PID)					100.3	54-144		WG508682
TPH (GC/FID) Low Fraction	mg/kg	5.52	1.30	5.5	76.8	55-109	L488996-04	WG508682
a,a,a-Trifluorotoluene(FID)					102.0	59-128		WG508682
a,a,a-Trifluorotoluene(PID)					100.8	54-144		WG508682
Chromium,Hexavalent	mg/kg	-0.592	0	20	0*	50-150	L488824-02	WG508316
1-Methylnaphthalene	mg/kg	0.0312	0	.033	47.2	19-131	L488385-26	WG508513
2-Chloronaphthalene	mg/kg	0.0325	0	.033	49.2	38-117	L488385-26	WG508513
2-Methylnaphthalene	mg/kg	0.0321	0	.033	48.6	18-125	L488385-26	WG508513
Acenaphthene	mg/kg	0.0303	0	.033	46.0	31-120	L488385-26	WG508513
Acenaphthylene	mg/kg	0.0322	0	.033	48.8	34-116	L488385-26	WG508513
Anthracene	mg/kg	0.0310	0	.033	47.0	32-131	L488385-26	WG508513
Benzo(a)anthracene	mg/kg	0.0306	0	.033	46.4	32-131	L488385-26	WG508513
Benzo(a)pyrene	mg/kg	0.0337	0	.033	51.0	28-130	L488385-26	WG508513
Benzo(b)fluoranthene	mg/kg	0.0363	0	.033	54.9	37-130	L488385-26	WG508513
Benzo(g,h,i)perylene	mg/kg	0.0395	0	.033	59.8	10-134	L488385-26	WG508513

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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Benzo(k)fluoranthene	mg/kg	0.0296	0	.033	44.9	31-129	L488385-26	WG508513
Chrysene	mg/kg	0.0325	0	.033	49.2	25-137	L488385-26	WG508513
Dibenz(a,h)anthracene	mg/kg	0.0354	0	.033	53.6	20-134	L488385-26	WG508513
Fluoranthene	mg/kg	0.0305	0	.033	46.2	27-138	L488385-26	WG508513
Fluorene	mg/kg	0.0331	0	.033	50.1	26-136	L488385-26	WG508513
Indeno(1,2,3-cd)pyrene	mg/kg	0.0376	0	.033	57.0	16-135	L488385-26	WG508513
Naphthalene	mg/kg	0.0294	0	.033	44.5	22-121	L488385-26	WG508513
Phenanthrene	mg/kg	0.0306	0	.033	46.4	27-133	L488385-26	WG508513
Pyrene	mg/kg	0.0347	0	.033	52.6	22-133	L488385-26	WG508513
2-Fluorobiphenyl					92.29	21-120		WG508513
Nitrobenzene-d5					85.52	33-114		WG508513
p-Terphenyl-d14					108.8	18-142		WG508513
Arsenic	mg/kg	47.6	2.80	50	89.6	75-125	L488531-11	WG508479
Barium	mg/kg	87.8	40.0	50	95.6	75-125	L488531-11	WG508479
Cadmium	mg/kg	47.1	0	50	94.2	75-125	L488531-11	WG508479
Chromium	mg/kg	58.0	8.90	50	98.2	75-125	L488531-11	WG508479
Copper	mg/kg	56.4	6.53	50	99.7	75-125	L488531-11	WG508479
Lead	mg/kg	54.2	14.0	50	80.4	75-125	L488531-11	WG508479
Nickel	mg/kg	60.1	17.0	50	86.2	75-125	L488531-11	WG508479
Selenium	mg/kg	48.2	4.60	50	87.2	75-125	L488531-11	WG508479
Silver	mg/kg	46.0	0	50	92.0	75-125	L488531-11	WG508479
Zinc	mg/kg	87.4	42.0	50	90.8	75-125	L488531-11	WG508479
TPH (GC/FID) High Fraction	ppm	73.9	51.0	60	38.1*	50-150	L488671-01	WG509610
o-Terphenyl					20.83*	50-150		WG509610

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Mercury	mg/kg	0.297	0.317	107.	70-130	6.51	20	L488524-09	WG508103
TPH (GC/FID) Low Fraction	mg/kg	5.76	5.52	81.1	55-109	4.22	20	L488996-04	WG508682
a,a,a-Trifluorotoluene(FID)				102.1	59-128				WG508682
a,a,a-Trifluorotoluene(PID)				100.9	54-144				WG508682
Benzene	mg/kg	0.0405	0.0396	79.2	32-137	2.27	39	L488813-09	WG508682
Ethylbenzene	mg/kg	0.0406	0.0394	77.5	10-150	2.97	44	L488813-09	WG508682
Toluene	mg/kg	0.0427	0.0413	85.5	20-142	3.38	42	L488813-09	WG508682
Total Xylene	mg/kg	0.119	0.114	79.4	16-141	4.53	46	L488813-09	WG508682
a,a,a-Trifluorotoluene(FID)				97.83	59-128				WG508682
a,a,a-Trifluorotoluene(PID)				99.96	54-144				WG508682
Chromium,Hexavalent	mg/kg	0.252	-0.592	1.26*	50-150	-496.*	20	L488824-02	WG508316
1-Methylnaphthalene	mg/kg	0.0293	0.0312	88.8	19-131	6.18	30	L488385-26	WG508513
2-Chloronaphthalene	mg/kg	0.0297	0.0325	90.0	38-117	8.93	26	L488385-26	WG508513
2-Methylnaphthalene	mg/kg	0.0302	0.0321	91.6	18-125	5.96	29	L488385-26	WG508513
Acenaphthene	mg/kg	0.0297	0.0303	90.0	31-120	2.17	30	L488385-26	WG508513
Acenaphthylene	mg/kg	0.0327	0.0322	99.1	34-116	1.42	29	L488385-26	WG508513
Anthracene	mg/kg	0.0302	0.0310	91.5	32-131	2.59	26	L488385-26	WG508513
Benzo(a)anthracene	mg/kg	0.0302	0.0306	91.4	32-131	1.51	31	L488385-26	WG508513
Benzo(a)pyrene	mg/kg	0.0332	0.0337	101.	28-130	1.27	28	L488385-26	WG508513
Benzo(b)fluoranthene	mg/kg	0.0324	0.0363	98.3	37-130	11.1	41	L488385-26	WG508513
Benzo(g,h,i)perylene	mg/kg	0.0392	0.0395	119.	10-134	0.638	26	L488385-26	WG508513

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Analyte	Units	MSD	Matrix Spike	Duplicate	Limit	RPD	Limit	Ref	Samp	Batch
			Ref	%Rec						
Benzo(k)fluoranthene	mg/kg	0.0318	0.0296	96.3	31-129	7.04	42	L488385-26		WG508513
Chrysene	mg/kg	0.0307	0.0325	93.0	25-137	5.80	22	L488385-26		WG508513
Dibenz(a,h)anthracene	mg/kg	0.0351	0.0354	106.	20-134	0.630	25	L488385-26		WG508513
Fluoranthene	mg/kg	0.0310	0.0305	93.8	27-138	1.57	35	L488385-26		WG508513
Fluorene	mg/kg	0.0314	0.0331	95.2	26-136	5.11	30	L488385-26		WG508513
Indeno(1,2,3-cd)pyrene	mg/kg	0.0377	0.0376	114.	16-135	0.0656	26	L488385-26		WG508513
Naphthalene	mg/kg	0.0268	0.0294	81.2	22-121	9.16	30	L488385-26		WG508513
Phenanthrene	mg/kg	0.0305	0.0306	92.5	27-133	0.248	36	L488385-26		WG508513
Pyrene	mg/kg	0.0300	0.0347	90.8	22-133	14.7	33	L488385-26		WG508513
2-Fluorobiphenyl				88.99	21-120					WG508513
Nitrobenzene-d5				80.90	33-114					WG508513
p-Terphenyl-d14				96.07	18-142					WG508513
Arsenic	mg/kg	50.1	47.6	94.6	75-125	5.12	20	L488531-11		WG508479
Barium	mg/kg	103.	87.8	126.*	75-125	15.9	20	L488531-11		WG508479
Cadmium	mg/kg	48.0	47.1	96.0	75-125	1.89	20	L488531-11		WG508479
Chromium	mg/kg	58.2	58.0	98.6	75-125	0.344	20	L488531-11		WG508479
Copper	mg/kg	58.1	56.4	103.	75-125	2.97	20	L488531-11		WG508479
Lead	mg/kg	54.8	54.2	81.6	75-125	1.10	20	L488531-11		WG508479
Nickel	mg/kg	63.8	60.1	93.6	75-125	5.97	20	L488531-11		WG508479
Selenium	mg/kg	46.3	48.2	83.4	75-125	4.02	20	L488531-11		WG508479
Silver	mg/kg	48.1	46.0	96.2	75-125	4.46	20	L488531-11		WG508479
Zinc	mg/kg	85.3	87.4	86.6	75-125	2.43	20	L488531-11		WG508479
TPH (GC/FID) High Fraction	ppm	53.6	73.9	4.33*	50-150	31.8*	20	L488671-01		WG509610
o-Terphenyl				21.41*	50-150					WG509610

Batch number /Run number / Sample number cross reference

WG508103: R1471051: L488481-01
WG508348: R1473889: L488481-01
WG508297: R1475051: L488481-01
WG508424: R1475269: L488481-01
WG508513: R1475311: L488481-01
WG508646: R1475772: L488481-01
WG508682: R1475989: L488481-01
WG508316: R1476329: L488481-01
WG509610: R1483670: L488481-01
WG508479: R1483852: L488481-01

* * 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.