



12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
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Tax I.D. 62-0814289

Est. 1970

Blair Rollins  
Olsson Associates- Grand Junction, CO  
760 Horizon Drive, Ste 102  
Grand Junction, CO 81506

## Report Summary

Monday August 04, 2014

Report Number: L712135

Samples Received: 07/25/14

Client Project: 013-3182

Description: ILES Dome 11 pipe spill

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:

Daphne Richards , ESC Representative

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NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,  
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,  
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,  
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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# REPORT OF ANALYSIS

Blair Rollins  
Olsson Associates- Grand Junction,  
760 Horizon Drive, Ste 102  
Grand Junction, CO 81506

August 04, 2014

Date Received : July 25, 2014  
Description : ILES Dome 11 pipe spill

ESC Sample # : L712135-01

Sample ID : NORTH WALL

Site ID :

Collected By : Blair Rollins  
Collection Date : 07/23/14 14:30

Project # : 013-3182

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	07/28/14	1
Chromium, Trivalent	22.	2.0	mg/kg	Calc.	07/30/14	1
ORP	220		mV	2580 B-2011	07/30/14	1
pH	5.2		su	9045D	07/30/14	1
Sodium Adsorption Ratio	9.4			Calc.	08/01/14	1
Specific Conductance	500		umhos/cm	9050AMod	07/30/14	1
Mercury	BDL	0.020	mg/kg	7471	07/30/14	1
Arsenic	7.5	2.0	mg/kg	6010B	07/30/14	1
Barium	160	0.50	mg/kg	6010B	07/30/14	1
Cadmium	BDL	0.50	mg/kg	6010B	07/30/14	1
Chromium	22.	1.0	mg/kg	6010B	07/30/14	1
Copper	19.	2.0	mg/kg	6010B	07/30/14	1
Lead	15.	0.50	mg/kg	6010B	07/30/14	1
Nickel	18.	2.0	mg/kg	6010B	07/30/14	1
Selenium	BDL	2.0	mg/kg	6010B	07/30/14	1
Silver	BDL	1.0	mg/kg	6010B	07/30/14	1
Zinc	72.	5.0	mg/kg	6010B	07/30/14	1
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	07/29/14	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	94.7		% Rec.	8015D/GRO	07/29/14	5
Benzene	BDL	0.0050	mg/kg	8260B	07/29/14	5
Toluene	BDL	0.025	mg/kg	8260B	07/29/14	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	07/29/14	5
Total Xylenes	BDL	0.015	mg/kg	8260B	07/29/14	5
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	07/29/14	5
Dibromofluoromethane	98.5		% Rec.	8260B	07/29/14	5
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	07/29/14	5
4-Bromofluorobenzene	101.		% Rec.	8260B	07/29/14	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	07/31/14	1
Surrogate recovery(%) o-Terphenyl	71.1		% Rec.	3546/DRO	07/31/14	1

## Polynuclear Aromatic Hydrocarbons

BDL - Below Detection Limit  
Det. Limit - Practical Quantitation Limit(PQL)  
L712135-01 (PH) - 5.2@20.6



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Blair Rollins  
Olsson Associates- Grand Junction,  
760 Horizon Drive, Ste 102  
Grand Junction, CO 81506

August 04, 2014

Date Received : July 25, 2014  
Description : ILES Dome 11 pipe spill

ESC Sample # : L712135-01

Sample ID : NORTH WALL

Site ID :

Collected By : Blair Rollins  
Collection Date : 07/23/14 14:30

Project # : 013-3182

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Naphthalene	BDL	0.020	mg/kg	8270C-SIM	07/31/14	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
1-Methylnaphthalene	BDL	0.020	mg/kg	8270C-SIM	07/31/14	1
2-Methylnaphthalene	BDL	0.020	mg/kg	8270C-SIM	07/31/14	1
2-Chloronaphthalene	BDL	0.020	mg/kg	8270C-SIM	07/31/14	1
Surrogate Recovery						
p-Terphenyl-d14	62.1		% Rec.	8270C-SIM	07/31/14	1
Nitrobenzene-d5	81.6		% Rec.	8270C-SIM	07/31/14	1
2-Fluorobiphenyl	80.0		% Rec.	8270C-SIM	07/31/14	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: 08/04/14 11:08 Printed: 08/04/14 12:14  
L712135-01 (PH) - 5.2@20.6



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# REPORT OF ANALYSIS

Blair Rollins  
Olsson Associates- Grand Junction,  
760 Horizon Drive, Ste 102  
Grand Junction, CO 81506

August 04, 2014

Date Received : July 25, 2014  
Description : ILES Dome 11 pipe spill

ESC Sample # : L712135-02

Sample ID : SPILL BOTTOM

Site ID :

Collected By : Blair Rollins  
Collection Date : 07/23/14 14:40

Project # : 013-3182

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	07/28/14	1
Chromium,Trivalent	20.	2.0	mg/kg	Calc.	07/30/14	1
ORP	180		mV	2580 B-2011	07/30/14	1
pH	6.9		su	9045D	07/30/14	1
Sodium Adsorption Ratio	7.4			Calc.	08/01/14	1
Specific Conductance	490		umhos/cm	9050AMod	07/30/14	1
Mercury	BDL	0.020	mg/kg	7471	07/30/14	1
Arsenic	7.4	2.0	mg/kg	6010B	07/30/14	1
Barium	180	0.50	mg/kg	6010B	07/30/14	1
Cadmium	BDL	0.50	mg/kg	6010B	07/30/14	1
Chromium	20.	1.0	mg/kg	6010B	07/30/14	1
Copper	15.	2.0	mg/kg	6010B	07/30/14	1
Lead	14.	0.50	mg/kg	6010B	07/30/14	1
Nickel	17.	2.0	mg/kg	6010B	07/30/14	1
Selenium	BDL	2.0	mg/kg	6010B	07/30/14	1
Silver	BDL	1.0	mg/kg	6010B	07/30/14	1
Zinc	73.	5.0	mg/kg	6010B	07/30/14	1
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	07/29/14	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	94.5		% Rec.	8015D/GRO	07/29/14	5
Benzene	BDL	0.0050	mg/kg	8260B	07/30/14	5
Toluene	BDL	0.025	mg/kg	8260B	07/30/14	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	07/30/14	5
Total Xylenes	BDL	0.015	mg/kg	8260B	07/30/14	5
Surrogate Recovery						
Toluene-d8	96.6		% Rec.	8260B	07/30/14	5
Dibromofluoromethane	94.0		% Rec.	8260B	07/30/14	5
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	07/30/14	5
4-Bromofluorobenzene	101.		% Rec.	8260B	07/30/14	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	07/31/14	1
Surrogate recovery(%) o-Terphenyl	72.1		% Rec.	3546/DRO	07/31/14	1

## Polynuclear Aromatic Hydrocarbons

BDL - Below Detection Limit  
Det. Limit - Practical Quantitation Limit(PQL)  
L712135-02 (PH) - 6.9@20.3c



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# REPORT OF ANALYSIS

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Olsson Associates- Grand Junction,  
760 Horizon Drive, Ste 102  
Grand Junction, CO 81506

August 04, 2014

Date Received : July 25, 2014  
Description : ILES Dome 11 pipe spill

ESC Sample # : L712135-02

Sample ID : SPILL BOTTOM

Site ID :

Collected By : Blair Rollins  
Collection Date : 07/23/14 14:40

Project # : 013-3182

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Naphthalene	BDL	0.020	mg/kg	8270C-SIM	07/31/14	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
1-Methylnaphthalene	BDL	0.020	mg/kg	8270C-SIM	07/31/14	1
2-Methylnaphthalene	BDL	0.020	mg/kg	8270C-SIM	07/31/14	1
2-Chloronaphthalene	BDL	0.020	mg/kg	8270C-SIM	07/31/14	1
Surrogate Recovery						
p-Terphenyl-d14	56.5		% Rec.	8270C-SIM	07/31/14	1
Nitrobenzene-d5	81.6		% Rec.	8270C-SIM	07/31/14	1
2-Fluorobiphenyl	78.5		% Rec.	8270C-SIM	07/31/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L712135-02 (PH) - 6.9@20.3c



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# REPORT OF ANALYSIS

Blair Rollins  
Olsson Associates- Grand Junction,  
760 Horizon Drive, Ste 102  
Grand Junction, CO 81506

August 04, 2014

Date Received : July 25, 2014  
Description : ILES Dome 11 pipe spill

ESC Sample # : L712135-03

Sample ID : SOUTH WALL

Site ID :

Collected By : Blair Rollins  
Collection Date : 07/23/14 14:50

Project # : 013-3182

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	07/28/14	1
Chromium, Trivalent	21.	2.0	mg/kg	Calc.	07/30/14	1
ORP	190		mV	2580 B-2011	07/30/14	1
pH	7.7		su	9045D	07/30/14	1
Sodium Adsorption Ratio	1.4			Calc.	08/01/14	1
Specific Conductance	430		umhos/cm	9050AMod	07/30/14	1
Mercury	0.022	0.020	mg/kg	7471	07/30/14	1
Arsenic	6.7	2.0	mg/kg	6010B	07/30/14	1
Barium	200	0.50	mg/kg	6010B	07/30/14	1
Cadmium	BDL	0.50	mg/kg	6010B	07/30/14	1
Chromium	21.	1.0	mg/kg	6010B	07/30/14	1
Copper	16.	2.0	mg/kg	6010B	07/30/14	1
Lead	15.	0.50	mg/kg	6010B	07/30/14	1
Nickel	18.	2.0	mg/kg	6010B	07/30/14	1
Selenium	BDL	2.0	mg/kg	6010B	07/30/14	1
Silver	BDL	1.0	mg/kg	6010B	07/30/14	1
Zinc	72.	5.0	mg/kg	6010B	07/30/14	1
TPH (GC/FID) Low Fraction	70.	25.	mg/kg	8015D/GRO	07/29/14	250
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	96.8		% Rec.	8015D/GRO	07/29/14	250
Benzene	BDL	0.025	mg/kg	8260B	08/02/14	25
Toluene	BDL	0.12	mg/kg	8260B	08/02/14	25
Ethylbenzene	BDL	0.025	mg/kg	8260B	08/02/14	25
Total Xylenes	BDL	0.075	mg/kg	8260B	08/02/14	25
Surrogate Recovery						
Toluene-d8	108.		% Rec.	8260B	08/02/14	25
Dibromofluoromethane	87.0		% Rec.	8260B	08/02/14	25
a,a,a-Trifluorotoluene	104.		% Rec.	8260B	08/02/14	25
4-Bromofluorobenzene	134.		% Rec.	8260B	08/02/14	25
TPH (GC/FID) High Fraction	1500	40.	mg/kg	3546/DRO	07/31/14	10
Surrogate recovery(%) o-Terphenyl	130.		% Rec.	3546/DRO	07/31/14	10

## Polynuclear Aromatic Hydrocarbons

BDL - Below Detection Limit  
Det. Limit - Practical Quantitation Limit(PQL)  
L712135-03 (PH) - 7.7@20.6c  
L712135-03 (V8260BTEx) - Non-target compounds too high to run at a lower dilution.



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# REPORT OF ANALYSIS

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Olsson Associates- Grand Junction,  
760 Horizon Drive, Ste 102  
Grand Junction, CO 81506

August 04, 2014

Date Received : July 25, 2014  
Description : ILES Dome 11 pipe spill

ESC Sample # : L712135-03

Sample ID : SOUTH WALL

Site ID :

Collected By : Blair Rollins  
Collection Date : 07/23/14 14:50

Project # : 013-3182

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Anthracene	BDL	0.030	mg/kg	8270C-SIM	07/31/14	5
Acenaphthene	0.052	0.030	mg/kg	8270C-SIM	07/31/14	5
Acenaphthylene	BDL	0.030	mg/kg	8270C-SIM	07/31/14	5
Benzo(a)anthracene	BDL	0.030	mg/kg	8270C-SIM	07/31/14	5
Benzo(a)pyrene	BDL	0.030	mg/kg	8270C-SIM	07/31/14	5
Benzo(b)fluoranthene	BDL	0.030	mg/kg	8270C-SIM	07/31/14	5
Benzo(g,h,i)perylene	BDL	0.030	mg/kg	8270C-SIM	07/31/14	5
Benzo(k)fluoranthene	BDL	0.030	mg/kg	8270C-SIM	07/31/14	5
Chrysene	0.032	0.030	mg/kg	8270C-SIM	07/31/14	5
Dibenz(a,h)anthracene	BDL	0.030	mg/kg	8270C-SIM	07/31/14	5
Fluoranthene	BDL	0.030	mg/kg	8270C-SIM	07/31/14	5
Fluorene	0.051	0.030	mg/kg	8270C-SIM	07/31/14	5
Indeno(1,2,3-cd)pyrene	BDL	0.030	mg/kg	8270C-SIM	07/31/14	5
Naphthalene	BDL	0.10	mg/kg	8270C-SIM	07/31/14	5
Phenanthrene	0.26	0.030	mg/kg	8270C-SIM	07/31/14	5
Pyrene	0.036	0.030	mg/kg	8270C-SIM	07/31/14	5
1-Methylnaphthalene	0.18	0.10	mg/kg	8270C-SIM	07/31/14	5
2-Methylnaphthalene	BDL	0.10	mg/kg	8270C-SIM	07/31/14	5
2-Chloronaphthalene	BDL	0.10	mg/kg	8270C-SIM	07/31/14	5
Surrogate Recovery						
p-Terphenyl-d14	62.2		% Rec.	8270C-SIM	07/31/14	5
Nitrobenzene-d5	49.7		% Rec.	8270C-SIM	07/31/14	5
2-Fluorobiphenyl	93.2		% Rec.	8270C-SIM	07/31/14	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L712135-03 (PH) - 7.7@20.6c

L712135-03 (V8260BTEx) - Non-target compounds too high to run at a lower dilution.



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# REPORT OF ANALYSIS

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Olsson Associates- Grand Junction,  
760 Horizon Drive, Ste 102  
Grand Junction, CO 81506

August 04, 2014

Date Received : July 25, 2014  
Description : ILES Dome 11 pipe spill

ESC Sample # : L712135-04

Sample ID : FILL SPOIL

Site ID :

Collected By : Blair Rollins  
Collection Date : 07/23/14 15:00

Project # : 013-3182

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	07/28/14	1
Chromium,Trivalent	25.	2.0	mg/kg	Calc.	07/30/14	1
ORP	200		mV	2580 B-2011	07/30/14	1
pH	7.5		su	9045D	07/30/14	1
Sodium Adsorption Ratio	1.8			Calc.	08/01/14	1
Specific Conductance	300		umhos/cm	9050AMod	07/30/14	1
Mercury	BDL	0.020	mg/kg	7471	07/30/14	1
Arsenic	7.5	2.0	mg/kg	6010B	07/30/14	1
Barium	220	0.50	mg/kg	6010B	07/30/14	1
Cadmium	BDL	0.50	mg/kg	6010B	07/30/14	1
Chromium	25.	1.0	mg/kg	6010B	07/30/14	1
Copper	15.	2.0	mg/kg	6010B	07/30/14	1
Lead	15.	0.50	mg/kg	6010B	07/30/14	1
Nickel	18.	2.0	mg/kg	6010B	07/30/14	1
Selenium	BDL	2.0	mg/kg	6010B	07/30/14	1
Silver	BDL	1.0	mg/kg	6010B	07/30/14	1
Zinc	71.	5.0	mg/kg	6010B	07/30/14	1
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	07/30/14	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	94.3		% Rec.	8015D/GRO	07/30/14	5
Benzene	BDL	0.0050	mg/kg	8260B	07/30/14	5
Toluene	BDL	0.025	mg/kg	8260B	07/30/14	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	07/30/14	5
Total Xylenes	BDL	0.015	mg/kg	8260B	07/30/14	5
Surrogate Recovery						
Toluene-d8	98.4		% Rec.	8260B	07/30/14	5
Dibromofluoromethane	90.0		% Rec.	8260B	07/30/14	5
a,a,a-Trifluorotoluene	101.		% Rec.	8260B	07/30/14	5
4-Bromofluorobenzene	93.8		% Rec.	8260B	07/30/14	5
TPH (GC/FID) High Fraction	39.	4.0	mg/kg	3546/DRO	08/01/14	1
Surrogate recovery(%) o-Terphenyl	52.6		% Rec.	3546/DRO	08/01/14	1

## Polynuclear Aromatic Hydrocarbons

BDL - Below Detection Limit  
Det. Limit - Practical Quantitation Limit(PQL)  
L712135-04 (PH) - 7.5@20.5c





12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

# REPORT OF ANALYSIS

Blair Rollins  
Olsson Associates- Grand Junction,  
760 Horizon Drive, Ste 102  
Grand Junction, CO 81506

August 04, 2014

Date Received : July 25, 2014  
Description : ILES Dome 11 pipe spill

ESC Sample # : L712135-04

Sample ID : FILL SPOIL

Site ID :

Collected By : Blair Rollins  
Collection Date : 07/23/14 15:00

Project # : 013-3182

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Naphthalene	BDL	0.020	mg/kg	8270C-SIM	07/31/14	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
1-Methylnaphthalene	BDL	0.020	mg/kg	8270C-SIM	07/31/14	1
2-Methylnaphthalene	BDL	0.020	mg/kg	8270C-SIM	07/31/14	1
2-Chloronaphthalene	BDL	0.020	mg/kg	8270C-SIM	07/31/14	1
Surrogate Recovery						
p-Terphenyl-d14	63.5		% Rec.	8270C-SIM	07/31/14	1
Nitrobenzene-d5	84.7		% Rec.	8270C-SIM	07/31/14	1
2-Fluorobiphenyl	83.6		% Rec.	8270C-SIM	07/31/14	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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L712135-04 (PH) - 7.5@20.5c



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Est. 1970

REPORT OF ANALYSIS

Blair Rollins  
Olsson Associates- Grand Junction,  
760 Horizon Drive, Ste 102  
Grand Junction, CO 81506

August 04, 2014

Date Received : July 25, 2014  
Description : ILES Dome 11 pipe spill  
Sample ID : BACKGROUND  
Collected By : Blair Rollins  
Collection Date : 07/23/14 15:10

ESC Sample # : L712135-05  
  
Site ID :  
Project # : 013-3182

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	7.8	2.0	mg/kg	6010B	07/30/14	1

BDL - Below Detection Limit  
Det. Limit - Practical Quantitation Limit(PQL)  
Note:  
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# REPORT OF ANALYSIS

Blair Rollins  
Olsson Associates- Grand Junction,  
760 Horizon Drive, Ste 102  
Grand Junction, CO 81506

August 04, 2014

Date Received : July 25, 2014  
Description : ILES Dome 11 pipe spill

ESC Sample # : L712135-06

Sample ID : SPILL SPOIL

Site ID :

Collected By : Blair Rollins  
Collection Date : 07/23/14 15:20

Project # : 013-3182

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	07/28/14	1
Chromium, Trivalent	25.	2.0	mg/kg	Calc.	07/30/14	1
ORP	200		mV	2580 B-2011	07/30/14	1
pH	7.7		su	9045D	07/30/14	1
Sodium Adsorption Ratio	1.9			Calc.	08/01/14	1
Specific Conductance	330		umhos/cm	9050AMod	07/30/14	1
Mercury	0.023	0.020	mg/kg	7471	07/30/14	1
Arsenic	8.6	2.0	mg/kg	6010B	07/30/14	1
Barium	300	0.50	mg/kg	6010B	07/30/14	1
Cadmium	BDL	0.50	mg/kg	6010B	07/30/14	1
Chromium	25.	1.0	mg/kg	6010B	07/30/14	1
Copper	15.	2.0	mg/kg	6010B	07/30/14	1
Lead	16.	0.50	mg/kg	6010B	07/30/14	1
Nickel	19.	2.0	mg/kg	6010B	07/30/14	1
Selenium	BDL	2.0	mg/kg	6010B	07/30/14	1
Silver	BDL	1.0	mg/kg	6010B	07/30/14	1
Zinc	77.	5.0	mg/kg	6010B	07/30/14	1
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	07/30/14	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	94.3		% Rec.	8015D/GRO	07/30/14	5
Benzene	BDL	0.0050	mg/kg	8260B	07/30/14	5
Toluene	BDL	0.025	mg/kg	8260B	07/30/14	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	07/30/14	5
Total Xylenes	BDL	0.015	mg/kg	8260B	07/30/14	5
Surrogate Recovery						
Toluene-d8	99.8		% Rec.	8260B	07/30/14	5
Dibromofluoromethane	99.5		% Rec.	8260B	07/30/14	5
a,a,a-Trifluorotoluene	98.9		% Rec.	8260B	07/30/14	5
4-Bromofluorobenzene	96.3		% Rec.	8260B	07/30/14	5
TPH (GC/FID) High Fraction	14.	4.0	mg/kg	3546/DRO	08/01/14	1
Surrogate recovery(%) o-Terphenyl	57.5		% Rec.	3546/DRO	08/01/14	1

## Polynuclear Aromatic Hydrocarbons

BDL - Below Detection Limit  
Det. Limit - Practical Quantitation Limit(PQL)  
L712135-06 (PH) - 7.7@20.5c



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# REPORT OF ANALYSIS

Blair Rollins  
Olsson Associates- Grand Junction,  
760 Horizon Drive, Ste 102  
Grand Junction, CO 81506

August 04, 2014

Date Received : July 25, 2014  
Description : ILES Dome 11 pipe spill

ESC Sample # : L712135-06

Sample ID : SPILL SPOIL

Site ID :

Collected By : Blair Rollins  
Collection Date : 07/23/14 15:20

Project # : 013-3182

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Naphthalene	BDL	0.020	mg/kg	8270C-SIM	07/31/14	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	07/31/14	1
1-Methylnaphthalene	BDL	0.020	mg/kg	8270C-SIM	07/31/14	1
2-Methylnaphthalene	BDL	0.020	mg/kg	8270C-SIM	07/31/14	1
2-Chloronaphthalene	BDL	0.020	mg/kg	8270C-SIM	07/31/14	1
Surrogate Recovery						
p-Terphenyl-d14	64.6		% Rec.	8270C-SIM	07/31/14	1
Nitrobenzene-d5	82.5		% Rec.	8270C-SIM	07/31/14	1
2-Fluorobiphenyl	81.1		% Rec.	8270C-SIM	07/31/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L712135-06 (PH) - 7.7@20.5c

Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L712135-02	WG734168	SAMP	Lead	R2969972	O1
L712135-03	WG735091	SAMP	4-Bromofluorobenzene	R2971205	J1
L712135-04	WG733993	SAMP	Chromium,Hexavalent	R2969169	T9

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits
O1	(ESC) The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
T9	(ESC) - Additional method/sample information: The sample result represents blank correction

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.



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Est. 1970

August 04, 2014

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Chromium, Hexavalent	< 2	mg/kg			WG733993	07/28/14 14:25
Benzene	< .001	mg/kg			WG733943	07/29/14 13:21
Ethylbenzene	< .001	mg/kg			WG733943	07/29/14 13:21
Toluene	< .005	mg/kg			WG733943	07/29/14 13:21
Total Xylenes	< .003	mg/kg			WG733943	07/29/14 13:21
4-Bromofluorobenzene		% Rec.	106.0	71-126	WG733943	07/29/14 13:21
Dibromofluoromethane		% Rec.	96.00	78.3-121	WG733943	07/29/14 13:21
Toluene-d8		% Rec.	105.0	88.5-111	WG733943	07/29/14 13:21
a,a,a-Trifluorotoluene		% Rec.	104.0	85-114	WG733943	07/29/14 13:21
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG734006	07/29/14 17:32
a,a,a-Trifluorotoluene(FID)		% Rec.	95.60	59-128	WG734006	07/29/14 17:32
Mercury	< .02	mg/kg			WG733875	07/30/14 08:33
Arsenic	< 1	mg/kg			WG734168	07/30/14 10:10
Barium	< .25	mg/kg			WG734168	07/30/14 10:10
Cadmium	< .25	mg/kg			WG734168	07/30/14 10:10
Chromium	< .5	mg/kg			WG734168	07/30/14 10:10
Copper	< 1	mg/kg			WG734168	07/30/14 10:10
Lead	< .25	mg/kg			WG734168	07/30/14 10:10
Nickel	< 1	mg/kg			WG734168	07/30/14 10:10
Selenium	< 1	mg/kg			WG734168	07/30/14 10:10
Silver	< .5	mg/kg			WG734168	07/30/14 10:10
Zinc	< 5	mg/kg			WG734168	07/30/14 10:10
Specific Conductance	1.80	umhos/cm			WG734319	07/30/14 15:45
TPH (GC/FID) High Fraction	< 4	mg/kg			WG734577	07/31/14 00:08
o-Terphenyl		% Rec.	83.40	50-150	WG734577	07/31/14 00:08
TPH (GC/FID) High Fraction	< 4	mg/kg			WG734369	07/31/14 06:28
o-Terphenyl		% Rec.	76.30	50-150	WG734369	07/31/14 06:28
1-Methylnaphthalene	< .02	mg/kg			WG734377	07/31/14 01:16
2-Chloronaphthalene	< .02	mg/kg			WG734377	07/31/14 01:16
2-Methylnaphthalene	< .02	mg/kg			WG734377	07/31/14 01:16
Acenaphthene	< .006	mg/kg			WG734377	07/31/14 01:16
Acenaphthylene	< .006	mg/kg			WG734377	07/31/14 01:16
Anthracene	< .006	mg/kg			WG734377	07/31/14 01:16
Benzo(a)anthracene	< .006	mg/kg			WG734377	07/31/14 01:16
Benzo(a)pyrene	< .006	mg/kg			WG734377	07/31/14 01:16
Benzo(b)fluoranthene	< .006	mg/kg			WG734377	07/31/14 01:16
Benzo(g,h,i)perylene	< .006	mg/kg			WG734377	07/31/14 01:16
Benzo(k)fluoranthene	< .006	mg/kg			WG734377	07/31/14 01:16
Chrysene	< .006	mg/kg			WG734377	07/31/14 01:16
Dibenz(a,h)anthracene	< .006	mg/kg			WG734377	07/31/14 01:16
Fluoranthene	< .006	mg/kg			WG734377	07/31/14 01:16
Fluorene	< .006	mg/kg			WG734377	07/31/14 01:16
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG734377	07/31/14 01:16

\* 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

August 04, 2014

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Naphthalene	< .02	mg/kg			WG734377	07/31/14 01:16
Phenanthrene	< .006	mg/kg			WG734377	07/31/14 01:16
Pyrene	< .006	mg/kg			WG734377	07/31/14 01:16
2-Fluorobiphenyl		% Rec.	86.10	38.2-135	WG734377	07/31/14 01:16
Nitrobenzene-d5		% Rec.	85.70	28.4-151	WG734377	07/31/14 01:16
p-Terphenyl-d14		% Rec.	68.70	34.2-141	WG734377	07/31/14 01:16
1-Methylnaphthalene	< .02	mg/kg			WG734455	07/31/14 12:01
2-Chloronaphthalene	< .02	mg/kg			WG734455	07/31/14 12:01
2-Methylnaphthalene	< .02	mg/kg			WG734455	07/31/14 12:01
Acenaphthene	< .006	mg/kg			WG734455	07/31/14 12:01
Acenaphthylene	< .006	mg/kg			WG734455	07/31/14 12:01
Anthracene	< .006	mg/kg			WG734455	07/31/14 12:01
Benzo(a)anthracene	< .006	mg/kg			WG734455	07/31/14 12:01
Benzo(a)pyrene	< .006	mg/kg			WG734455	07/31/14 12:01
Benzo(b)fluoranthene	< .006	mg/kg			WG734455	07/31/14 12:01
Benzo(g,h,i)perylene	< .006	mg/kg			WG734455	07/31/14 12:01
Benzo(k)fluoranthene	< .006	mg/kg			WG734455	07/31/14 12:01
Chrysene	< .006	mg/kg			WG734455	07/31/14 12:01
Dibenz(a,h)anthracene	< .006	mg/kg			WG734455	07/31/14 12:01
Fluoranthene	< .006	mg/kg			WG734455	07/31/14 12:01
Fluorene	< .006	mg/kg			WG734455	07/31/14 12:01
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG734455	07/31/14 12:01
Naphthalene	< .02	mg/kg			WG734455	07/31/14 12:01
Phenanthrene	< .006	mg/kg			WG734455	07/31/14 12:01
Pyrene	< .006	mg/kg			WG734455	07/31/14 12:01
2-Fluorobiphenyl		% Rec.	81.40	38.2-135	WG734455	07/31/14 12:01
Nitrobenzene-d5		% Rec.	79.40	28.4-151	WG734455	07/31/14 12:01
p-Terphenyl-d14		% Rec.	67.20	34.2-141	WG734455	07/31/14 12:01
TPH (GC/FID) High Fraction	< 4	mg/kg			WG734446	07/31/14 12:49
o-Terphenyl		% Rec.	73.30	50-150	WG734446	07/31/14 12:49
Benzene	< .001	mg/kg			WG734436	07/29/14 23:46
Ethylbenzene	< .001	mg/kg			WG734436	07/29/14 23:46
Toluene	< .005	mg/kg			WG734436	07/29/14 23:46
Total Xylenes	< .003	mg/kg			WG734436	07/29/14 23:46
4-Bromofluorobenzene		% Rec.	94.90	71-126	WG734436	07/29/14 23:46
Dibromofluoromethane		% Rec.	86.90	78.3-121	WG734436	07/29/14 23:46
Toluene-d8		% Rec.	97.70	88.5-111	WG734436	07/29/14 23:46
a,a,a-Trifluorotoluene		% Rec.	102.0	85-114	WG734436	07/29/14 23:46
Benzene	< .001	mg/kg			WG735091	08/02/14 00:24
Ethylbenzene	< .001	mg/kg			WG735091	08/02/14 00:24
Toluene	< .005	mg/kg			WG735091	08/02/14 00:24
Total Xylenes	< .003	mg/kg			WG735091	08/02/14 00:24
4-Bromofluorobenzene		% Rec.	97.70	71-126	WG735091	08/02/14 00:24
Dibromofluoromethane		% Rec.	99.70	78.3-121	WG735091	08/02/14 00:24
Toluene-d8		% Rec.	100.0	88.5-111	WG735091	08/02/14 00:24
a,a,a-Trifluorotoluene		% Rec.	99.40	85-114	WG735091	08/02/14 00:24

Analyte	Units	Result	Duplicate		RPD	Limit	Ref Samp	Batch
			Duplicate					
Chromium,Hexavalent	mg/kg	2.70	2.70		0.0	20	L711776-03	WG733993

\* 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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Tax I.D. 62-0814289

Est. 1970

August 04, 2014

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Chromium,Hexavalent	mg/kg	0.0	0.0	0.0	20	L712338-27	WG733993
Mercury	mg/kg	0.0240	0.0229	4.00	20	L712135-06	WG733875
pH	su	9.90	9.90	0.101	1	L711726-06	WG734328
pH	su	7.90	7.90	0.127	1	L712480-01	WG734328
ORP	mV	38.0	37.0	2.67	20	L711726-06	WG734318
ORP	mV	200.	200.	0.499	20	L712216-01	WG734318
Specific Conductance	umhos/cm	7.10	7.20	0.837	20	L711660-01	WG734319
Specific Conductance	umhos/cm	200.	190.	3.62	20	L712480-01	WG734319

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Chromium,Hexavalent	mg/kg	187	194.	104.	80-120	WG733993
Benzene	mg/kg	.025	0.0256	103.	77.1-121	WG733943
Ethylbenzene	mg/kg	.025	0.0239	95.6	79.7-122	WG733943
Toluene	mg/kg	.025	0.0244	97.6	79.7-118	WG733943
Total Xylenes	mg/kg	.075	0.0726	96.8	78.8-121	WG733943
4-Bromofluorobenzene				102.0	71-126	WG733943
Dibromofluoromethane				97.70	78.3-121	WG733943
Toluene-d8				104.0	88.5-111	WG733943
a,a,a-Trifluorotoluene				102.0	85-114	WG733943
TPH (GC/FID) Low Fraction	mg/kg	5.5	4.62	84.0	63.5-137	WG734006
a,a,a-Trifluorotoluene(FID)				96.80	59-128	WG734006
Mercury	mg/kg	12.4	12.5	101.	71.6-128	WG733875
Arsenic	mg/kg	237	253.	107.	83.1-117	WG734168
Barium	mg/kg	252	262.	104.	84.1-116	WG734168
Cadmium	mg/kg	191	196.	103.	83.2-117	WG734168
Chromium	mg/kg	128	132.	103.	81.3-118	WG734168
Copper	mg/kg	123	130.	106.	83.7-116	WG734168
Lead	mg/kg	103	107.	104.	83.1-117	WG734168
Nickel	mg/kg	118	116.	98.0	82-118	WG734168
Selenium	mg/kg	110	115.	105.	78.7-122	WG734168
Silver	mg/kg	47.3	48.5	103.	66.2-134	WG734168
Zinc	mg/kg	183	189.	104.	82-118	WG734168
pH	su	6.33	6.30	99.5	98.3-101.7	WG734328
ORP	mV	100	95.0	95.0	90-110	WG734318
Specific Conductance	umhos/cm	1040	1000	96.2	85-115	WG734319

\* Performance of this Analyte is outside of established criteria.

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Quality Assurance Report  
Level II

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Tax I.D. 62-0814289

Est. 1970

August 04, 2014

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
TPH (GC/FID) High Fraction	mg/kg	60	52.1	86.8	50-150	WG734577
o-Terphenyl				88.20	50-150	WG734577
TPH (GC/FID) High Fraction	mg/kg	60	49.8	83.0	50-150	WG734369
o-Terphenyl				81.90	50-150	WG734369
1-Methylnaphthalene	mg/kg	.08	0.0593	74.1	48.9-127	WG734377
2-Chloronaphthalene	mg/kg	.08	0.0766	95.8	48.8-125	WG734377
2-Methylnaphthalene	mg/kg	.08	0.0587	73.4	45.7-131	WG734377
Acenaphthene	mg/kg	.08	0.0687	85.9	48.7-127	WG734377
Acenaphthylene	mg/kg	.08	0.0658	82.3	47.9-128	WG734377
Anthracene	mg/kg	.08	0.0766	95.7	51.3-136	WG734377
Benzo(a)anthracene	mg/kg	.08	0.0620	77.5	55-126	WG734377
Benzo(a)pyrene	mg/kg	.08	0.0549	68.6	51.9-127	WG734377
Benzo(b)fluoranthene	mg/kg	.08	0.0528	66.0	54-125	WG734377
Benzo(g,h,i)perylene	mg/kg	.08	0.0565	70.6	53.8-136	WG734377
Benzo(k)fluoranthene	mg/kg	.08	0.0608	76.0	53.9-132	WG734377
Chrysene	mg/kg	.08	0.0682	85.2	55.7-133	WG734377
Dibenz(a,h)anthracene	mg/kg	.08	0.0595	74.4	52.6-137	WG734377
Fluoranthene	mg/kg	.08	0.0708	88.5	54-132	WG734377
Fluorene	mg/kg	.08	0.0682	85.2	48.7-127	WG734377
Indeno(1,2,3-cd)pyrene	mg/kg	.08	0.0605	75.7	53.8-138	WG734377
Naphthalene	mg/kg	.08	0.0549	68.7	42-127	WG734377
Phenanthrene	mg/kg	.08	0.0631	78.9	49.6-126	WG734377
Pyrene	mg/kg	.08	0.0560	69.9	54-129	WG734377
2-Fluorobiphenyl				86.10	38.2-135	WG734377
Nitrobenzene-d5				92.00	28.4-151	WG734377
p-Terphenyl-d14				70.10	34.2-141	WG734377
1-Methylnaphthalene	mg/kg	.08	0.0551	68.9	48.9-127	WG734455
2-Chloronaphthalene	mg/kg	.08	0.0704	88.0	48.8-125	WG734455
2-Methylnaphthalene	mg/kg	.08	0.0547	68.3	45.7-131	WG734455
Acenaphthene	mg/kg	.08	0.0633	79.1	48.7-127	WG734455
Acenaphthylene	mg/kg	.08	0.0600	75.0	47.9-128	WG734455
Anthracene	mg/kg	.08	0.0727	90.8	51.3-136	WG734455
Benzo(a)anthracene	mg/kg	.08	0.0585	73.1	55-126	WG734455
Benzo(a)pyrene	mg/kg	.08	0.0511	63.9	51.9-127	WG734455
Benzo(b)fluoranthene	mg/kg	.08	0.0502	62.7	54-125	WG734455
Benzo(g,h,i)perylene	mg/kg	.08	0.0532	66.5	53.8-136	WG734455
Benzo(k)fluoranthene	mg/kg	.08	0.0559	69.8	53.9-132	WG734455
Chrysene	mg/kg	.08	0.0646	80.8	55.7-133	WG734455
Dibenz(a,h)anthracene	mg/kg	.08	0.0560	70.0	52.6-137	WG734455
Fluoranthene	mg/kg	.08	0.0664	83.0	54-132	WG734455
Fluorene	mg/kg	.08	0.0632	79.0	48.7-127	WG734455
Indeno(1,2,3-cd)pyrene	mg/kg	.08	0.0571	71.4	53.8-138	WG734455
Naphthalene	mg/kg	.08	0.0506	63.2	42-127	WG734455
Phenanthrene	mg/kg	.08	0.0579	72.3	49.6-126	WG734455
Pyrene	mg/kg	.08	0.0563	70.4	54-129	WG734455
2-Fluorobiphenyl				73.90	38.2-135	WG734455
Nitrobenzene-d5				75.00	28.4-151	WG734455
p-Terphenyl-d14				65.30	34.2-141	WG734455
TPH (GC/FID) High Fraction	mg/kg	60	43.4	72.4	50-150	WG734446
o-Terphenyl				68.70	50-150	WG734446

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Est. 1970

August 04, 2014

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/kg	.025	0.0229	91.6	77.1-121	WG734436
Ethylbenzene	mg/kg	.025	0.0262	105.	79.7-122	WG734436
Toluene	mg/kg	.025	0.0241	96.2	79.7-118	WG734436
Total Xylenes	mg/kg	.075	0.0805	107.	78.8-121	WG734436
4-Bromofluorobenzene				83.70	71-126	WG734436
Dibromofluoromethane				94.30	78.3-121	WG734436
Toluene-d8				95.40	88.5-111	WG734436
a,a,a-Trifluorotoluene				105.0	85-114	WG734436
Benzene	mg/kg	.025	0.0252	101.	77.1-121	WG735091
Ethylbenzene	mg/kg	.025	0.0274	110.	79.7-122	WG735091
Toluene	mg/kg	.025	0.0250	99.9	79.7-118	WG735091
Total Xylenes	mg/kg	.075	0.0833	111.	78.8-121	WG735091
4-Bromofluorobenzene				102.0	71-126	WG735091
Dibromofluoromethane				90.40	78.3-121	WG735091
Toluene-d8				101.0	88.5-111	WG735091
a,a,a-Trifluorotoluene				100.0	85-114	WG735091

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Chromium, Hexavalent	mg/kg	192.	194.	102.	80-120	1.14	20	WG733993
Benzene	mg/kg	0.0250	0.0256	100.	77.1-121	2.68	20	WG733943
Ethylbenzene	mg/kg	0.0232	0.0239	93.0	79.7-122	3.12	20	WG733943
Toluene	mg/kg	0.0241	0.0244	96.0	79.7-118	1.34	20	WG733943
Total Xylenes	mg/kg	0.0709	0.0726	94.0	78.8-121	2.34	20	WG733943
4-Bromofluorobenzene				101.0	71-126			WG733943
Dibromofluoromethane				96.60	78.3-121			WG733943
Toluene-d8				105.0	88.5-111			WG733943
a,a,a-Trifluorotoluene				103.0	85-114			WG733943
TPH (GC/FID) Low Fraction	mg/kg	5.13	4.62	93.0	63.5-137	10.5	20	WG734006
a,a,a-Trifluorotoluene(FID)				97.00	59-128			WG734006
Arsenic	mg/kg	246.	253.	104.	83.1-117	2.00	20	WG734168
Barium	mg/kg	255.	262.	101.	84.1-116	3.00	20	WG734168
Cadmium	mg/kg	194.	196.	102.	83.2-117	1.00	20	WG734168
Chromium	mg/kg	130.	132.	101.	81.3-118	2.00	20	WG734168
Copper	mg/kg	128.	130.	104.	83.7-116	1.00	20	WG734168
Lead	mg/kg	103.	107.	100.	83.1-117	4.00	20	WG734168
Nickel	mg/kg	114.	116.	97.0	82-118	1.00	20	WG734168
Selenium	mg/kg	112.	115.	102.	78.7-122	3.00	20	WG734168
Silver	mg/kg	48.1	48.5	102.	66.2-134	1.00	20	WG734168
Zinc	mg/kg	187.	189.	102.	82-118	1.00	20	WG734168
pH	su	6.30	6.30	100.	98.3-101.7	0.0	20	WG734328
ORP	mV	96.0	95.0	96.0	90-110	1.05	20	WG734318
Specific Conductance	umhos/ 1000	1000		96.0	85-115	0.0	20	WG734319

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Tax I.D. 62-0814289

Est. 1970

August 04, 2014

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
TPH (GC/FID) High Fraction	mg/kg	53.8	52.1	90.0	50-150	3.18	20	WG734577
o-Terphenyl				88.80	50-150			WG734577
TPH (GC/FID) High Fraction	mg/kg	50.4	49.8	84.0	50-150	1.18	20	WG734369
o-Terphenyl				83.00	50-150			WG734369
1-Methylnaphthalene	mg/kg	0.0597	0.0593	75.0	48.9-127	0.780	20	WG734377
2-Chloronaphthalene	mg/kg	0.0754	0.0766	94.0	48.8-125	1.54	20	WG734377
2-Methylnaphthalene	mg/kg	0.0590	0.0587	74.0	45.7-131	0.430	20	WG734377
Acenaphthene	mg/kg	0.0678	0.0687	85.0	48.7-127	1.28	20	WG734377
Acenaphthylene	mg/kg	0.0649	0.0658	81.0	47.9-128	1.42	20	WG734377
Anthracene	mg/kg	0.0759	0.0766	95.0	51.3-136	0.870	20	WG734377
Benzo(a)anthracene	mg/kg	0.0614	0.0620	77.0	55-126	0.970	20	WG734377
Benzo(a)pyrene	mg/kg	0.0493	0.0549	62.0	51.9-127	10.7	20	WG734377
Benzo(b)fluoranthene	mg/kg	0.0541	0.0528	68.0	54-125	2.37	20	WG734377
Benzo(g,h,i)perylene	mg/kg	0.0541	0.0565	68.0	53.8-136	4.39	20	WG734377
Benzo(k)fluoranthene	mg/kg	0.0596	0.0608	74.0	53.9-132	2.01	20	WG734377
Chrysene	mg/kg	0.0669	0.0682	84.0	55.7-133	1.84	20	WG734377
Dibenz(a,h)anthracene	mg/kg	0.0578	0.0595	72.0	52.6-137	2.93	20	WG734377
Fluoranthene	mg/kg	0.0695	0.0708	87.0	54-132	1.77	20	WG734377
Fluorene	mg/kg	0.0674	0.0682	84.0	48.7-127	1.16	20	WG734377
Indeno(1,2,3-cd)pyrene	mg/kg	0.0589	0.0605	74.0	53.8-138	2.79	20	WG734377
Naphthalene	mg/kg	0.0542	0.0549	68.0	42-127	1.32	20	WG734377
Phenanthrene	mg/kg	0.0624	0.0631	78.0	49.6-126	1.14	20	WG734377
Pyrene	mg/kg	0.0535	0.0560	67.0	54-129	4.53	20	WG734377
2-Fluorobiphenyl				84.80	38.2-135			WG734377
Nitrobenzene-d5				85.60	28.4-151			WG734377
p-Terphenyl-d14				67.90	34.2-141			WG734377
1-Methylnaphthalene	mg/kg	0.0569	0.0551	71.0	48.9-127	3.22	20	WG734455
2-Chloronaphthalene	mg/kg	0.0731	0.0704	91.0	48.8-125	3.81	20	WG734455
2-Methylnaphthalene	mg/kg	0.0564	0.0547	70.0	45.7-131	3.07	20	WG734455
Acenaphthene	mg/kg	0.0654	0.0633	82.0	48.7-127	3.28	20	WG734455
Acenaphthylene	mg/kg	0.0622	0.0600	78.0	47.9-128	3.61	20	WG734455
Anthracene	mg/kg	0.0757	0.0727	94.0	51.3-136	4.05	20	WG734455
Benzo(a)anthracene	mg/kg	0.0609	0.0585	76.0	55-126	4.11	20	WG734455
Benzo(a)pyrene	mg/kg	0.0529	0.0511	66.0	51.9-127	3.36	20	WG734455
Benzo(b)fluoranthene	mg/kg	0.0535	0.0502	67.0	54-125	6.40	20	WG734455
Benzo(g,h,i)perylene	mg/kg	0.0555	0.0532	69.0	53.8-136	4.27	20	WG734455
Benzo(k)fluoranthene	mg/kg	0.0559	0.0559	70.0	53.9-132	0.160	20	WG734455
Chrysene	mg/kg	0.0661	0.0646	83.0	55.7-133	2.23	20	WG734455
Dibenz(a,h)anthracene	mg/kg	0.0582	0.0560	73.0	52.6-137	3.77	20	WG734455
Fluoranthene	mg/kg	0.0694	0.0664	87.0	54-132	4.36	20	WG734455
Fluorene	mg/kg	0.0651	0.0632	81.0	48.7-127	2.90	20	WG734455
Indeno(1,2,3-cd)pyrene	mg/kg	0.0591	0.0571	74.0	53.8-138	3.51	20	WG734455
Naphthalene	mg/kg	0.0516	0.0506	64.0	42-127	1.95	20	WG734455
Phenanthrene	mg/kg	0.0598	0.0579	75.0	49.6-126	3.28	20	WG734455
Pyrene	mg/kg	0.0558	0.0563	70.0	54-129	1.00	20	WG734455
2-Fluorobiphenyl				84.00	38.2-135			WG734455
Nitrobenzene-d5				84.30	28.4-151			WG734455
p-Terphenyl-d14				71.80	34.2-141			WG734455
TPH (GC/FID) High Fraction	mg/kg	45.2	43.4	75.0	50-150	3.91	20	WG734446
o-Terphenyl				69.20	50-150			WG734446

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Est. 1970

August 04, 2014

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/kg	0.0238	0.0229	95.0	77.1-121	3.68	20	WG734436
Ethylbenzene	mg/kg	0.0264	0.0262	106.	79.7-122	0.870	20	WG734436
Toluene	mg/kg	0.0243	0.0241	97.0	79.7-118	0.970	20	WG734436
Total Xylenes	mg/kg	0.0809	0.0805	108.	78.8-121	0.530	20	WG734436
4-Bromofluorobenzene				85.30	71-126			WG734436
Dibromofluoromethane				98.20	78.3-121			WG734436
Toluene-d8				98.00	88.5-111			WG734436
a,a,a-Trifluorotoluene				107.0	85-114			WG734436
Benzene	mg/kg	0.0251	0.0252	100.	77.1-121	0.430	20	WG735091
Ethylbenzene	mg/kg	0.0271	0.0274	108.	79.7-122	1.17	20	WG735091
Toluene	mg/kg	0.0253	0.0250	101.	79.7-118	1.37	20	WG735091
Total Xylenes	mg/kg	0.0809	0.0833	108.	78.8-121	2.98	20	WG735091
4-Bromofluorobenzene				99.80	71-126			WG735091
Dibromofluoromethane				91.00	78.3-121			WG735091
Toluene-d8				102.0	88.5-111			WG735091
a,a,a-Trifluorotoluene				100.0	85-114			WG735091

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
Benzene	mg/kg	0.114	0.0	.025	91.0	54.3-133	L712135-01	WG733943
Ethylbenzene	mg/kg	0.100	0.0	.025	80.0	61.4-133	L712135-01	WG733943
Toluene	mg/kg	0.104	0.000421	.025	82.0	61.4-130	L712135-01	WG733943
Total Xylenes	mg/kg	0.301	0.0	.075	80.0	63.3-131	L712135-01	WG733943
4-Bromofluorobenzene					102.0	71-126		WG733943
Dibromofluoromethane					97.00	78.3-121		WG733943
Toluene-d8					103.0	88.5-111		WG733943
a,a,a-Trifluorotoluene					102.0	85-114		WG733943
TPH (GC/FID) Low Fraction	mg/kg	24.3	0.0710	5.5	88.0	28.5-138	L712135-01	WG734006
a,a,a-Trifluorotoluene(FID)					96.40	59-128		WG734006
Mercury	mg/kg	0.549	0.0229	.5	100.	80-120	L712135-06	WG733875
Arsenic	mg/kg	56.9	7.41	50	99.0	75-125	L712135-02	WG734168
Barium	mg/kg	224.	181.	50	85.0	75-125	L712135-02	WG734168
Cadmium	mg/kg	47.4	0.0488	50	95.0	75-125	L712135-02	WG734168
Chromium	mg/kg	69.6	20.1	50	99.0	75-125	L712135-02	WG734168
Copper	mg/kg	65.6	14.8	50	100.	75-125	L712135-02	WG734168
Lead	mg/kg	62.8	14.5	50	96.0	75-125	L712135-02	WG734168
Nickel	mg/kg	64.6	17.5	50	94.0	75-125	L712135-02	WG734168
Selenium	mg/kg	48.1	-2.99	50	96.0	75-125	L712135-02	WG734168
Silver	mg/kg	52.3	0.599	50	100.	75-125	L712135-02	WG734168
Zinc	mg/kg	121.	72.7	50	97.0	75-125	L712135-02	WG734168
TPH (GC/FID) High Fraction	mg/kg	99.8	69.8	6	50.0	50-150	L712582-03	WG734577
o-Terphenyl					81.40	50-150		WG734577
TPH (GC/FID) High Fraction	mg/kg	51.8	0.0	60	86.0	50-150	L711911-01	WG734369
o-Terphenyl					75.00	50-150		WG734369

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Level II

L712135

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Tax I.D. 62-0814289

Est. 1970

August 04, 2014

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
1-Methylnaphthalene	mg/kg	0.303	0.547	.016	0.00*	41.8-133	L712192-04	WG734455
2-Chloronaphthalene	mg/kg	0.0646	0.00114	.016	79.4	42.4-129	L712192-04	WG734455
2-Methylnaphthalene	mg/kg	0.327	0.637	.016	0.00*	37.5-137	L712192-04	WG734455
Acenaphthene	mg/kg	0.630	2.28	.016	0.00*	39.4-132	L712192-04	WG734455
Acenaphthylene	mg/kg	0.108	0.0597	.016	60.3	41.3-132	L712192-04	WG734455
Anthracene	mg/kg	1.77	4.64	.016	0.00*	36.7-144	L712192-04	WG734455
Benzo(a)anthracene	mg/kg	4.84	8.71	.016	0.00*	28-144	L712192-04	WG734455
Benzo(a)pyrene	mg/kg	4.11	7.51	.016	0.00*	23.8-147	L712192-04	WG734455
Benzo(b)fluoranthene	mg/kg	4.50	8.50	.016	0.00*	18.2-147	L712192-04	WG734455
Benzo(g,h,i)perylene	mg/kg	2.37	4.42	.016	0.00*	9.2-155	L712192-04	WG734455
Benzo(k)fluoranthene	mg/kg	1.84	3.39	.016	0.00*	26.5-143	L712192-04	WG734455
Chrysene	mg/kg	4.32	8.07	.016	0.00*	27.4-150	L712192-04	WG734455
Dibenz(a,h)anthracene	mg/kg	0.809	1.37	.016	0.00*	13.8-150	L712192-04	WG734455
Fluoranthene	mg/kg	10.9	26.4	.016	0.00*	23.2-158	L712192-04	WG734455
Fluorene	mg/kg	0.574	1.84	.016	0.00*	30.8-139	L712192-04	WG734455
Indeno(1,2,3-cd)pyrene	mg/kg	2.23	4.09	.016	0.00*	10.7-155	L712192-04	WG734455
Naphthalene	mg/kg	0.389	0.954	.016	0.00*	34.9-133	L712192-04	WG734455
Phenanthrene	mg/kg	7.35	24.6	.016	0.00*	20.2-150	L712192-04	WG734455
Pyrene	mg/kg	8.00	17.2	.016	0.00*	22.6-151	L712192-04	WG734455
2-Fluorobiphenyl					77.40	38.2-135		WG734455
Nitrobenzene-d5					76.70	28.4-151		WG734455
p-Terphenyl-d14					68.40	34.2-141		WG734455
TPH (GC/FID) High Fraction	mg/kg	45.2	0.229	60	75.0	50-150	L712395-01	WG734446
o-Terphenyl					71.50	50-150		WG734446
Benzene	mg/kg	0.127	0.0	.025	100.	54.3-133	L711934-03	WG734436
Ethylbenzene	mg/kg	0.136	0.0	.025	110.	61.4-133	L711934-03	WG734436
Toluene	mg/kg	0.125	0.0	.025	100.	61.4-130	L711934-03	WG734436
Total Xylenes	mg/kg	0.409	0.0	.075	110.	63.3-131	L711934-03	WG734436
4-Bromofluorobenzene					84.30	71-126		WG734436
Dibromofluoromethane					99.80	78.3-121		WG734436
Toluene-d8					96.20	88.5-111		WG734436
a,a,a-Trifluorotoluene					104.0	85-114		WG734436
Benzene	mg/kg	0.105	0.0	.025	84.0	54.3-133	L713193-03	WG735091
Ethylbenzene	mg/kg	0.105	0.0	.025	84.0	61.4-133	L713193-03	WG735091
Toluene	mg/kg	0.103	0.0	.025	83.0	61.4-130	L713193-03	WG735091
Total Xylenes	mg/kg	0.327	0.0	.075	87.0	63.3-131	L713193-03	WG735091
4-Bromofluorobenzene					97.40	71-126		WG735091
Dibromofluoromethane					95.80	78.3-121		WG735091
Toluene-d8					98.10	88.5-111		WG735091
a,a,a-Trifluorotoluene					98.20	85-114		WG735091

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Benzene	mg/kg	0.119	0.114	95.6	54.3-133	4.95	20	L712135-01	WG733943
Ethylbenzene	mg/kg	0.106	0.100	84.9	61.4-133	5.62	20	L712135-01	WG733943
Toluene	mg/kg	0.109	0.104	86.8	61.4-130	5.06	20	L712135-01	WG733943
Total Xylenes	mg/kg	0.315	0.301	83.9	63.3-131	4.50	20	L712135-01	WG733943
4-Bromofluorobenzene				101.0	71-126				WG733943
Dibromofluoromethane				97.80	78.3-121				WG733943
Toluene-d8				104.0	88.5-111				WG733943
a,a,a-Trifluorotoluene				101.0	85-114				WG733943

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Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
TPH (GC/FID) Low Fraction	mg/kg	23.8	24.3	86.4	28.5-138	1.81	23.6	L712135-01	WG734006
a,a,a-Trifluorotoluene(FID)				95.90	59-128				WG734006
Mercury	mg/kg	0.540	0.549	103.	80-120	2.00	20	L712135-06	WG733875
Arsenic	mg/kg	57.7	56.9	100.	75-125	1.00	20	L712135-02	WG734168
Barium	mg/kg	226.	224.	89.4	75-125	1.00	20	L712135-02	WG734168
Cadmium	mg/kg	47.6	47.4	95.0	75-125	0.0	20	L712135-02	WG734168
Chromium	mg/kg	70.3	69.6	100.	75-125	1.00	20	L712135-02	WG734168
Copper	mg/kg	66.0	65.6	102.	75-125	1.00	20	L712135-02	WG734168
Lead	mg/kg	63.5	62.8	97.8	75-125	1.00	20	L712135-02	WG734168
Nickel	mg/kg	64.3	64.6	93.6	75-125	0.0	20	L712135-02	WG734168
Selenium	mg/kg	48.7	48.1	103.	75-125	1.00	20	L712135-02	WG734168
Silver	mg/kg	52.6	52.3	104.	75-125	1.00	20	L712135-02	WG734168
Zinc	mg/kg	121.	121.	96.2	75-125	0.0	20	L712135-02	WG734168
TPH (GC/FID) High Fraction	mg/kg	105.	99.8	59.1	50-150	5.35	20	L712582-03	WG734577
o-Terphenyl				88.70	50-150				WG734577
TPH (GC/FID) High Fraction	mg/kg	52.6	51.8	87.6	50-150	1.49	20	L711911-01	WG734369
o-Terphenyl				73.20	50-150				WG734369
1-Methylnaphthalene	mg/kg	1.30	0.303	942.*	41.8-133	124.*	20.9	L712192-04	WG734455
2-Chloronaphthalene	mg/kg	0.0701	0.0646	86.1	42.4-129	8.06	20	L712192-04	WG734455
2-Methylnaphthalene	mg/kg	1.45	0.327	1020*	37.5-137	126.*	20.4	L712192-04	WG734455
Acenaphthene	mg/kg	4.62	0.630	2920*	39.4-132	152.*	20	L712192-04	WG734455
Acenaphthylene	mg/kg	0.167	0.108	135.*	41.3-132	43.2*	20	L712192-04	WG734455
Anthracene	mg/kg	7.59	1.77	3690*	36.7-144	124.*	20.7	L712192-04	WG734455
Benzo(a)anthracene	mg/kg	11.9	4.84	3960*	28-144	84.2*	24.7	L712192-04	WG734455
Benzo(a)pyrene	mg/kg	9.89	4.11	2980*	23.8-147	82.6*	25.3	L712192-04	WG734455
Benzo(b)fluoranthene	mg/kg	11.2	4.50	3380*	18.2-147	85.3*	29.5	L712192-04	WG734455
Benzo(g,h,i)perylene	mg/kg	5.52	2.37	1370*	9.2-155	79.8*	29.2	L712192-04	WG734455
Benzo(k)fluoranthene	mg/kg	4.81	1.84	1780*	26.5-143	89.4*	26.1	L712192-04	WG734455
Chrysene	mg/kg	10.8	4.32	3450*	27.4-150	86.0*	25.7	L712192-04	WG734455
Dibenz(a,h)anthracene	mg/kg	1.89	0.809	650.*	13.8-150	80.1*	25.8	L712192-04	WG734455
Fluoranthene	mg/kg	37.8	10.9	14200*	23.2-158	110.*	26	L712192-04	WG734455
Fluorene	mg/kg	3.56	0.574	2150*	30.8-139	144.*	20	L712192-04	WG734455
Indeno(1,2,3-cd)pyrene	mg/kg	5.30	2.23	1520*	10.7-155	81.5*	26.9	L712192-04	WG734455
Naphthalene	mg/kg	1.86	0.389	1130*	34.9-133	131.*	20.4	L712192-04	WG734455
Phenanthrene	mg/kg	42.9	7.35	22900*	20.2-150	141.*	24.6	L712192-04	WG734455
Pyrene	mg/kg	23.9	8.00	8360*	22.6-151	99.8*	25.1	L712192-04	WG734455
2-Fluorobiphenyl				80.10	38.2-135				WG734455
Nitrobenzene-d5				73.00	28.4-151				WG734455
p-Terphenyl-d14				74.70	34.2-141				WG734455
TPH (GC/FID) High Fraction	mg/kg	45.5	45.2	75.5	50-150	0.630	20	L712395-01	WG734446
o-Terphenyl				71.70	50-150				WG734446
Benzene	mg/kg	0.118	0.127	94.5	54.3-133	7.15	20	L711934-03	WG734436
Ethylbenzene	mg/kg	0.128	0.136	102.	61.4-133	6.17	20	L711934-03	WG734436
Toluene	mg/kg	0.123	0.125	98.4	61.4-130	1.62	20	L711934-03	WG734436
Total Xylenes	mg/kg	0.389	0.409	104.	63.3-131	5.10	20	L711934-03	WG734436

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Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref	Samp	Batch
			Ref	%Rec						
4-Bromofluorobenzene				81.30	71-126					
Dibromofluoromethane				96.30	78.3-121					
Toluene-d8				97.10	88.5-111					
a,a,a-Trifluorotoluene				104.0	85-114					
Benzene	mg/kg	0.106	0.105	84.7	54.3-133	0.620	20	L713193-03		WG735091
Ethylbenzene	mg/kg	0.0974	0.105	77.9	61.4-133	7.93	20	L713193-03		WG735091
Toluene	mg/kg	0.101	0.103	81.1	61.4-130	1.92	20	L713193-03		WG735091
Total Xylenes	mg/kg	0.304	0.327	81.0	63.3-131	7.27	20	L713193-03		WG735091
4-Bromofluorobenzene				96.60	71-126					WG735091
Dibromofluoromethane				98.40	78.3-121					WG735091
Toluene-d8				99.30	88.5-111					WG735091
a,a,a-Trifluorotoluene				97.70	85-114					WG735091
Post Spike										
Serial Dilution										

Batch number /Run number / Sample number cross reference

WG733993: R2969169: L712135-01 02 03 04 06  
WG733943: R2969648: L712135-01  
WG734006: R2969889: L712135-01 02 03 04 06  
WG733875: R2969970: L712135-01 02 03 04 06  
WG734168: R2969972: L712135-01 02 03 04 05 06  
WG734328: R2970008: L712135-01 02 03 04 06  
WG734318: R2970085: L712135-01 02 03 04 06  
WG734319: R2970086: L712135-01 02 03 04 06  
WG734369: R2970491 R2970730: L712135-01  
WG734577: R2970492: L712135-02 03  
WG734377: R2970534: L712135-01 02 03  
WG734455: R2970682 R2971155: L712135-04 06

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WG734446: R2970731 R2970809: L712135-04 06  
WG734436: R2970788: L712135-02 04 06  
WG734399: R2970924: L712135-01 02 03 04 06  
WG735091: R2971205: L712135-03

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

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The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.