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Tax I.D. 62-0814289

Est. 1970

Daniel Padilla
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

Report Summary

Tuesday April 17, 2012

Report Number: L568883

Samples Received: 04/06/12

Client Project: WA-000546-0013-10

Description: Shell 797-03A Pit Background

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:

Mark W. Beasley , ESC Representative

Laboratory Certification Numbers

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SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
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REPORT OF ANALYSIS

Daniel Padilla
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

April 17, 2012

Date Received : April 06, 2012
Description : Shell 797-03A Pit Background
Sample ID : PB-E 17-20FT
Collected By : CJB
Collection Date : 04/05/12 11:10

ESC Sample # : L568883-01

Site ID :

Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	0.71	2.0	mg/kg		3060A/7	04/13/12	1
Chromium, Trivalent	18.	0.17	2.0	mg/kg		Calc.	04/10/12	1
ORP	200			mV		2580	04/09/12	1
pH	7.9			su	T8	9045D	04/09/12	1
Sodium Adsorption Ratio	2.7					Calc.	04/11/12	1
Specific Conductance	1300			umhos/cm		9050AMo	04/10/12	1
Mercury	0.028	0.00080	0.020	mg/kg		7471	04/10/12	1
Arsenic	9.4	0.32	1.0	mg/kg		6010B	04/10/12	1
Barium	230	0.050	0.25	mg/kg		6010B	04/10/12	1
Cadmium	0.30	0.040	0.25	mg/kg		6010B	04/10/12	1
Chromium	18.	0.085	0.50	mg/kg		6010B	04/10/12	1
Copper	18.	0.21	1.0	mg/kg		6010B	04/10/12	1
Lead	9.0	0.090	0.25	mg/kg		6010B	04/10/12	1
Nickel	15.	0.53	2.0	mg/kg		6010B	04/10/12	2
Selenium	U	0.32	1.0	mg/kg		6010B	04/10/12	1
Silver	U	0.16	0.50	mg/kg		6010B	04/10/12	1
Zinc	79.	0.68	3.0	mg/kg		6010B	04/10/12	2
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	04/08/12	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (FID)	88.5			% Rec.		602/801	04/08/12	5
Benzene	U	0.0017	0.0050	mg/kg		8260B	04/07/12	5
Toluene	U	0.0016	0.025	mg/kg		8260B	04/07/12	5
Ethylbenzene	U	0.0019	0.0050	mg/kg		8260B	04/07/12	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	04/07/12	5
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	04/07/12	5
Dibromofluoromethane	92.8			% Rec.		8260B	04/07/12	5
a,a,a-Trifluorotoluene	110.			% Rec.		8260B	04/07/12	5
4-Bromofluorobenzene	105.			% Rec.		8260B	04/07/12	5
TPH (GC/FID) High Fraction	21.	0.77	4.0	mg/kg		3546/DR	04/12/12	1
Surrogate recovery(%) o-Terphenyl	61.0			% Rec.		3546/DR	04/12/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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L568883-01 (PH) - 7.9@18.8c



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REPORT OF ANALYSIS

Daniel Padilla
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

April 17, 2012

Date Received : April 06, 2012
Description : Shell 797-03A Pit Background

Sample ID : PB-E 17-20FT

Collected By : CJB
Collection Date : 04/05/12 11:10

ESC Sample # : L568883-01

Site ID :

Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	04/12/12	1
Acenaphthene	U	0.00071	0.0060	mg/kg		8270C-S	04/12/12	1
Acenaphthylene	U	0.00057	0.0060	mg/kg		8270C-S	04/12/12	1
Benzo(a)anthracene	0.00092	0.00092	0.0060	mg/kg	J	8270C-S	04/12/12	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	04/12/12	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	04/12/12	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	04/12/12	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	04/12/12	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	04/12/12	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	04/12/12	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	04/12/12	1
Fluorene	U	0.00055	0.0060	mg/kg		8270C-S	04/12/12	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	04/12/12	1
Naphthalene	0.0015	0.00065	0.0060	mg/kg	J	8270C-S	04/12/12	1
Phenanthrene	0.00099	0.00074	0.0060	mg/kg	J	8270C-S	04/12/12	1
Pyrene	U	0.00059	0.0060	mg/kg		8270C-S	04/12/12	1
1-Methylnaphthalene	U	0.00079	0.0060	mg/kg		8270C-S	04/12/12	1
2-Methylnaphthalene	0.0012	0.00059	0.0060	mg/kg	J	8270C-S	04/12/12	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	04/12/12	1
Surrogate Recovery								
Nitrobenzene-d5	64.1			% Rec.		8270C-S	04/12/12	1
2-Fluorobiphenyl	73.3			% Rec.		8270C-S	04/12/12	1
p-Terphenyl-d14	89.8			% Rec.		8270C-S	04/12/12	1

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Grand Junction, CO 81506

April 17, 2012

Date Received : April 06, 2012
Description : Shell 797-03A Pit Background
Sample ID : PB-W 17-20FT
Collected By : CJB
Collection Date : 04/05/12 11:15

ESC Sample # : L568883-02

Site ID :

Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	0.71	2.0	mg/kg		3060A/7	04/13/12	1
Chromium, Trivalent	22.	0.17	2.0	mg/kg		Calc.	04/10/12	1
ORP	190			mV		2580	04/09/12	1
pH	7.8			su	T8	9045D	04/09/12	1
Sodium Adsorption Ratio	3.0					Calc.	04/11/12	1
Specific Conductance	1400			umhos/cm		9050AMo	04/10/12	1
Mercury	0.022	0.00080	0.020	mg/kg		7471	04/10/12	1
Arsenic	19.	0.32	1.0	mg/kg		6010B	04/10/12	1
Barium	390	0.050	0.25	mg/kg		6010B	04/10/12	1
Cadmium	0.39	0.040	0.25	mg/kg		6010B	04/10/12	1
Chromium	22.	0.085	0.50	mg/kg		6010B	04/10/12	1
Copper	22.	0.21	1.0	mg/kg		6010B	04/10/12	1
Lead	13.	0.090	0.25	mg/kg		6010B	04/10/12	1
Nickel	18.	0.53	2.0	mg/kg		6010B	04/10/12	2
Selenium	U	0.32	1.0	mg/kg		6010B	04/10/12	1
Silver	U	0.16	0.50	mg/kg		6010B	04/10/12	1
Zinc	76.	0.68	3.0	mg/kg		6010B	04/10/12	2
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	04/08/12	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (FID)	101.			% Rec.		602/801	04/08/12	5
Benzene	U	0.0017	0.0050	mg/kg		8260B	04/07/12	5
Toluene	U	0.0016	0.025	mg/kg		8260B	04/07/12	5
Ethylbenzene	U	0.0019	0.0050	mg/kg		8260B	04/07/12	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	04/07/12	5
Surrogate Recovery								
Toluene-d8	104.			% Rec.		8260B	04/07/12	5
Dibromofluoromethane	92.2			% Rec.		8260B	04/07/12	5
a,a,a-Trifluorotoluene	111.			% Rec.		8260B	04/07/12	5
4-Bromofluorobenzene	107.			% Rec.		8260B	04/07/12	5
TPH (GC/FID) High Fraction	24.	0.77	4.0	mg/kg		3546/DR	04/12/12	1
Surrogate recovery (%) o-Terphenyl	58.3			% Rec.		3546/DR	04/12/12	1

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L568883-02 (PH) - 7.8@18.6c



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Daniel Padilla
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760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

April 17, 2012

Date Received : April 06, 2012
Description : Shell 797-03A Pit Background

Sample ID : PB-W 17-20FT

Collected By : CJB
Collection Date : 04/05/12 11:15

ESC Sample # : L568883-02

Site ID :

Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	04/12/12	1
Acenaphthene	U	0.00071	0.0060	mg/kg		8270C-S	04/12/12	1
Acenaphthylene	U	0.00057	0.0060	mg/kg		8270C-S	04/12/12	1
Benzo(a)anthracene	U	0.00092	0.0060	mg/kg		8270C-S	04/12/12	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	04/12/12	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	04/12/12	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	04/12/12	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	04/12/12	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	04/12/12	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	04/12/12	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	04/12/12	1
Fluorene	0.0010	0.00055	0.0060	mg/kg	J	8270C-S	04/12/12	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	04/12/12	1
Naphthalene	U	0.00065	0.0060	mg/kg		8270C-S	04/12/12	1
Phenanthrene	U	0.00074	0.0060	mg/kg		8270C-S	04/12/12	1
Pyrene	U	0.00059	0.0060	mg/kg		8270C-S	04/12/12	1
1-Methylnaphthalene	U	0.00079	0.0060	mg/kg		8270C-S	04/12/12	1
2-Methylnaphthalene	U	0.00059	0.0060	mg/kg		8270C-S	04/12/12	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	04/12/12	1
Surrogate Recovery								
Nitrobenzene-d5	52.9			% Rec.		8270C-S	04/12/12	1
2-Fluorobiphenyl	63.8			% Rec.		8270C-S	04/12/12	1
p-Terphenyl-d14	80.1			% Rec.		8270C-S	04/12/12	1

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Grand Junction, CO 81506

April 17, 2012

Date Received : April 06, 2012
Description : Shell 797-03A Pit Background
Sample ID : PB-N 17-20FT
Collected By : CJB
Collection Date : 04/05/12 11:05

ESC Sample # : L568883-03

Site ID :

Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	0.71	2.0	mg/kg		3060A/7	04/13/12	1
Chromium, Trivalent	20.	0.17	2.0	mg/kg		Calc.	04/10/12	1
ORP	190			mV		2580	04/09/12	1
pH	8.0			su	T8	9045D	04/09/12	1
Sodium Adsorption Ratio	2.9					Calc.	04/11/12	1
Specific Conductance	1200			umhos/cm		9050AMo	04/10/12	1
Mercury	0.026	0.00080	0.020	mg/kg		7471	04/12/12	1
Arsenic	12.	0.32	1.0	mg/kg		6010B	04/10/12	1
Barium	300	0.050	0.25	mg/kg		6010B	04/10/12	1
Cadmium	0.36	0.040	0.25	mg/kg		6010B	04/10/12	1
Chromium	20.	0.085	0.50	mg/kg		6010B	04/10/12	1
Copper	21.	0.21	1.0	mg/kg		6010B	04/10/12	1
Lead	13.	0.090	0.25	mg/kg		6010B	04/10/12	1
Nickel	17.	0.53	2.0	mg/kg		6010B	04/10/12	2
Selenium	U	0.32	1.0	mg/kg		6010B	04/10/12	1
Silver	U	0.16	0.50	mg/kg		6010B	04/10/12	1
Zinc	78.	0.68	3.0	mg/kg		6010B	04/10/12	2
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	04/08/12	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (FID)	105.			% Rec.		602/801	04/08/12	5
Benzene	U	0.0017	0.0050	mg/kg		8260B	04/07/12	5
Toluene	U	0.0016	0.025	mg/kg		8260B	04/07/12	5
Ethylbenzene	U	0.0019	0.0050	mg/kg		8260B	04/07/12	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	04/07/12	5
Surrogate Recovery								
Toluene-d8	104.			% Rec.		8260B	04/07/12	5
Dibromofluoromethane	92.8			% Rec.		8260B	04/07/12	5
a,a,a-Trifluorotoluene	111.			% Rec.		8260B	04/07/12	5
4-Bromofluorobenzene	106.			% Rec.		8260B	04/07/12	5
TPH (GC/FID) High Fraction	30.	0.77	4.0	mg/kg		3546/DR	04/12/12	1
Surrogate recovery (%) o-Terphenyl	61.5			% Rec.		3546/DR	04/12/12	1

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April 17, 2012

Date Received : April 06, 2012
Description : Shell 797-03A Pit Background

Sample ID : PB-N 17-20FT

Collected By : CJB
Collection Date : 04/05/12 11:05

ESC Sample # : L568883-03

Site ID :

Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	04/17/12	1
Acenaphthene	0.00076	0.00071	0.0060	mg/kg	J	8270C-S	04/17/12	1
Acenaphthylene	0.0010	0.00057	0.0060	mg/kg	J	8270C-S	04/17/12	1
Benzo(a)anthracene	U	0.00092	0.0060	mg/kg		8270C-S	04/17/12	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	04/17/12	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	04/17/12	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	04/17/12	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	04/17/12	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	04/17/12	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	04/17/12	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	04/17/12	1
Fluorene	0.0019	0.00055	0.0060	mg/kg	J	8270C-S	04/17/12	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	04/17/12	1
Naphthalene	0.020	0.00065	0.0060	mg/kg	J6	8270C-S	04/17/12	1
Phenanthrene	0.0011	0.00074	0.0060	mg/kg	J	8270C-S	04/17/12	1
Pyrene	0.0013	0.00059	0.0060	mg/kg	J	8270C-S	04/17/12	1
1-Methylnaphthalene	0.0028	0.00079	0.0060	mg/kg	J	8270C-S	04/17/12	1
2-Methylnaphthalene	0.012	0.00059	0.0060	mg/kg		8270C-S	04/17/12	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	04/17/12	1
Surrogate Recovery								
Nitrobenzene-d5	56.3			% Rec.		8270C-S	04/17/12	1
2-Fluorobiphenyl	80.4			% Rec.		8270C-S	04/17/12	1
p-Terphenyl-d14	107.			% Rec.		8270C-S	04/17/12	1

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Date Received : April 06, 2012
Description : Shell 797-03A Pit Background
Sample ID : PB-S-LOW 17-20FT
Collected By : CJB
Collection Date : 04/05/12 11:20

ESC Sample # : L568883-04

Site ID :

Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	0.71	2.0	mg/kg		3060A/7	04/13/12	1
Chromium, Trivalent	24.	0.17	2.0	mg/kg		Calc.	04/10/12	1
ORP	210			mV		2580	04/09/12	1
pH	7.7			su	T8	9045D	04/09/12	1
Sodium Adsorption Ratio	2.9					Calc.	04/11/12	1
Specific Conductance	1600			umhos/cm		9050AMo	04/10/12	1
Mercury	0.026	0.00080	0.020	mg/kg		7471	04/12/12	1
Arsenic	18.	0.32	1.0	mg/kg		6010B	04/10/12	1
Barium	270	0.050	0.25	mg/kg		6010B	04/10/12	1
Cadmium	0.44	0.040	0.25	mg/kg		6010B	04/10/12	1
Chromium	24.	0.085	0.50	mg/kg		6010B	04/10/12	1
Copper	26.	0.21	1.0	mg/kg		6010B	04/10/12	1
Lead	15.	0.090	0.25	mg/kg		6010B	04/10/12	1
Nickel	23.	0.53	2.0	mg/kg		6010B	04/10/12	2
Selenium	U	0.32	1.0	mg/kg		6010B	04/10/12	1
Silver	U	0.16	0.50	mg/kg		6010B	04/10/12	1
Zinc	85.	0.68	3.0	mg/kg		6010B	04/10/12	2
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	04/08/12	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (FID)	101.			% Rec.		602/801	04/08/12	5
Benzene	U	0.0017	0.0050	mg/kg		8260B	04/07/12	5
Toluene	U	0.0016	0.025	mg/kg		8260B	04/07/12	5
Ethylbenzene	U	0.0019	0.0050	mg/kg		8260B	04/07/12	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	04/07/12	5
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	04/07/12	5
Dibromofluoromethane	93.6			% Rec.		8260B	04/07/12	5
a,a,a-Trifluorotoluene	111.			% Rec.		8260B	04/07/12	5
4-Bromofluorobenzene	106.			% Rec.		8260B	04/07/12	5
TPH (GC/FID) High Fraction	15.	0.77	4.0	mg/kg		3546/DR	04/12/12	1
Surrogate recovery (%) o-Terphenyl	59.0			% Rec.		3546/DR	04/12/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 04/17/12 16:38 Printed: 04/17/12 16:38
L568883-04 (PH) - 7.7@18.9c



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REPORT OF ANALYSIS

Daniel Padilla
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

April 17, 2012

Date Received : April 06, 2012
Description : Shell 797-03A Pit Background

ESC Sample # : L568883-04

Sample ID : PB-S-LOW 17-20FT

Site ID :

Collected By : CJB
Collection Date : 04/05/12 11:20

Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	04/12/12	1
Acenaphthene	U	0.00071	0.0060	mg/kg		8270C-S	04/12/12	1
Acenaphthylene	U	0.00057	0.0060	mg/kg		8270C-S	04/12/12	1
Benzo(a)anthracene	U	0.00092	0.0060	mg/kg		8270C-S	04/12/12	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	04/12/12	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	04/12/12	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	04/12/12	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	04/12/12	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	04/12/12	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	04/12/12	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	04/12/12	1
Fluorene	U	0.00055	0.0060	mg/kg		8270C-S	04/12/12	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	04/12/12	1
Naphthalene	U	0.00065	0.0060	mg/kg		8270C-S	04/12/12	1
Phenanthrene	U	0.00074	0.0060	mg/kg		8270C-S	04/12/12	1
Pyrene	U	0.00059	0.0060	mg/kg		8270C-S	04/12/12	1
1-Methylnaphthalene	U	0.00079	0.0060	mg/kg		8270C-S	04/12/12	1
2-Methylnaphthalene	U	0.00059	0.0060	mg/kg		8270C-S	04/12/12	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	04/12/12	1
Surrogate Recovery								
Nitrobenzene-d5	55.4			% Rec.		8270C-S	04/12/12	1
2-Fluorobiphenyl	63.8			% Rec.		8270C-S	04/12/12	1
p-Terphenyl-d14	80.3			% Rec.		8270C-S	04/12/12	1

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L568883-04 (PH) - 7.7@18.9c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L568883-01	WG586785	SAMP	pH	R2111773	T8
	WG586961	SAMP	Benzo(a)anthracene	R2121253	J
	WG586961	SAMP	Naphthalene	R2121253	J
	WG586961	SAMP	Phenanthrene	R2121253	J
	WG586961	SAMP	2-Methylnaphthalene	R2121253	J
L568883-02	WG586785	SAMP	pH	R2111773	T8
	WG586961	SAMP	Fluorene	R2121253	J
L568883-03	WG586785	SAMP	pH	R2111773	T8
	WG586961	SAMP	Acenaphthene	R2121253	J
	WG586961	SAMP	Acenaphthylene	R2121253	J
	WG586961	SAMP	Fluorene	R2121253	J
	WG586961	SAMP	Naphthalene	R2121253	J6
	WG586961	SAMP	Phenanthrene	R2121253	J
	WG586961	SAMP	Pyrene	R2121253	J
	WG586961	SAMP	1-Methylnaphthalene	R2121253	J
L568883-04	WG586785	SAMP	pH	R2111773	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
04/17/12 at 16:38:55

TSR Signing Reports: 134
R5 - Desired TAT

Sample: L568883-01 Account: OXYGJCO Received: 04/06/12 09:00 Due Date: 04/13/12 00:00 RPT Date: 04/17/12 16:38
Sample: L568883-02 Account: OXYGJCO Received: 04/06/12 09:00 Due Date: 04/13/12 00:00 RPT Date: 04/17/12 16:38
Sample: L568883-03 Account: OXYGJCO Received: 04/06/12 09:00 Due Date: 04/13/12 00:00 RPT Date: 04/17/12 16:38
Sample: L568883-04 Account: OXYGJCO Received: 04/06/12 09:00 Due Date: 04/13/12 00:00 RPT Date: 04/17/12 16:38