



DOCUMENT
#2221494

SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b)

1. OGCC Operator Number: 66571		4. Contact Name Daniel I. Padilla		Complete the Attachment Checklist OP OGCC	
2. Name of Operator: OXY USA WTP LP		Phone: 970.263.3637			
3. Address: 760 Horizon Drive, Suite 101		Fax: 970.263.3694			
City: Grand Junction State: CO Zip: 81506					
5. API Number 05-045-16159		OGCC Facility ID Number 335482		Survey Plat	
6. Well/Facility Name: Shell Reserve Pit		7. Well/Facility Number 797-03B		Directional Survey	
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): NWNE Sec 3, T7S, R97W 6th PM				Surface Eqpm Diagram	
9. County: Garfield		10. Field Name: Grand Valley		Technical Info Page x	
11. Federal, Indian or State Lease Number:				Other Lab data, Map x	

General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)	
Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/> FM/FSL <input type="checkbox"/> FEL/FWL
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> attach directional survey
Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer	
Latitude	Distance to nearest property line
Longitude	Distance to nearest bldg, public rd, utility or RR
Ground Elevation	Distance to nearest lease line
	Is location in a High Density Area (rule 603b)? Yes/No
	Distance to nearest well same formation
	Surface owner consultation date:
GPS DATA:	
Date of Measurement	PDOP Reading
	Instrument Operator's Name
<input type="checkbox"/> CHANGE SPACING UNIT	
Formation	Formation Code
Spacing order number	Unit Acreage
	Unit configuration
<input type="checkbox"/> Remove from surface bond	
Signed surface use agreement attached	
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	
Effective Date:	
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	
<input type="checkbox"/> CHANGE WELL NAME NUMBER	
From:	
To:	
Effective Date:	
<input type="checkbox"/> ABANDONED LOCATION:	
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Ready for Inspection:	
<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS	
Date well shut in or temporarily abandoned:	
Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No	
MIT required if shut in longer than two years. Date of last MIT	
<input type="checkbox"/> SPUD DATE:	
<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)	
<input type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK	
*submit cbl and cement job summaries	
Method used	Cementing tool setting/perf depth
Cement volume	Cement top
Cement bottom	Date
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.	
Final reclamation will commence on approximately	
<input type="checkbox"/> Final reclamation is completed and site is ready for inspection.	

Technical Engineering/Environmental Notice

<input type="checkbox"/> Notice of Intent		<input type="checkbox"/> Report of Work Done	
Approximate Start Date:		Date Work Completed:	
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)			
<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal	
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste	
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans	
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: Application of diff. standard for Spills and Releases		

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Daniel I. Padilla Date: 11/2/11 Email: daniel_padilla@oxy.com

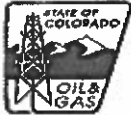
Print Name: Daniel I. Padilla Title: Regulatory Advisor

COGCC Approved: Chris Campfield Title: FOR Date: 12/12/2011

CONDITIONS OF APPROVAL, IF ANY:

Chris Campfield
EPS NW Region

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

- | | | | |
|--|------------------------------|-----------------------|---------------|
| 1. OGCC Operator Number: | 66571 | API Number: | 05-045-16159 |
| 2. Name of Operator: | OXY USA WTP LP | OGCC Facility ID # | 335482 |
| 3. Well/Facility Name: | Shell Reserve Pit | Well/Facility Number: | Shell 797-03B |
| 4. Location (QtrQtr, Sec, Twp, Rng, Meridian): | NWNE Sec 3, T7S, R97W 6th PM | | |

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. DESCRIBE PROPOSED OR COMPLETED OPERATIONS

OXY USA WTP LP (Oxy) has completed reclamation of the above-mentioned reserve pit and requests to apply a different standard (see table on next page) to the COGCC Table 910-1 concentration levels for Arsenic (As). Based on post reclamation levels for As being below undisturbed background levels, Oxy's sundry requests to waive the COGCC Table 910-1 concentration for As. In this particular situation, the below the pit liner and Cap sample show (Post Reclaim 09/10/2011, Cap 11/29/2011) concentration for As is above COGCC Table 910-1 standards, but is below undisturbed background levels (see sampling locations on included location map).

The sampling method Oxy employed was to take a representative random grab sample for each background sample location. The analytical concentrations table identifies the COGCC Table 910-1 concentration levels, Oxy's undisturbed background concentrations, and Oxy's post reclamation concentrations (Post Reclaim 09/10/2011).

To address elevated concentrations of pH, Oxy Buried and capped the pit bottom below at least three feet of native material to ensure a sufficient agronomic zone. The reclaimed pit was contoured to be level with the pad grade to minimize stormwater runoff, during operational phase of the pad. Final pad reclamation will occur at the end of the life of the pad.



OXY USA WTP LP

760 Horizon Drive, Suite 101
Grand Junction, CO 81506

Shell 797-03B Closure Sampling

Updated: December 1, 2011 Garfield County, Colorado

0 0.005 0.01 0.02 0.03 0.04 0.05 Miles



Pond / Pit Location



Post Reclamation Samples



Back Ground Samples



Cap Samples



Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

Report Summary

Friday November 18, 2011

Report Number: L546248

Samples Received: 11/10/11

Client Project: 900546.0005.010

Description: Shell 697-03B 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

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, PA - 68-02979

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.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



L.A.B S.C.I.E.N.C.E.S

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REPORT OF ANALYSIS

November 18, 2011

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

ESC Sample # : L546248-01

Date Received : November 10, 2011
Description : Shell 697-03B Background

Site ID :

Sample ID : SHELL03B-BG-SE 13 IN

Project # : 900546.0005.010

Collected By : CJB
Collection Date : 11/08/11 14:06

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	1.1	0.71	2.0	mg/kg	J	3060A/7	11/17/11	1
Chromium, Trivalent	12.	0.17	2.0	mg/kg		Calc.	11/14/11	1
ORP	150			mV	T8	2580	11/15/11	1
pH	7.7			su	T8	9045D	11/15/11	1
Sodium Adsorption Ratio	0.68					Calc.	11/16/11	1
Specific Conductance	150			umhos/cm		9050AMo	11/16/11	1
Mercury	0.017	0.0015	0.020	mg/kg	J	7471	11/12/11	1
Arsenic	8.4	0.32	1.0	mg/kg		6010B	11/14/11	1
Barium	230	0.050	0.25	mg/kg		6010B	11/14/11	1
Cadmium	U	0.040	0.25	mg/kg		6010B	11/16/11	1
Chromium	14.	0.085	0.50	mg/kg		6010B	11/14/11	1
Copper	20.	1.0	5.0	mg/kg		6010B	11/14/11	5
Lead	17.	0.45	1.3	mg/kg		6010B	11/14/11	5
Nickel	15.	0.26	1.0	mg/kg		6010B	11/14/11	1
Selenium	3.7	0.32	1.0	mg/kg		6010B	11/14/11	1
Silver	U	0.82	2.5	mg/kg	O	6010B	11/14/11	5
Zinc	50.	0.34	1.5	mg/kg		6010B	11/14/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	11/11/11	5
Surrogate Recovery (70-130)								
a,a,a-Trifluorotoluene (FID)	80.0			% Rec.		602/801	11/11/11	5
Benzene	U	0.0017	0.0050	mg/kg		8260B	11/13/11	5
Toluene	U	0.0016	0.025	mg/kg		8260B	11/13/11	5
Ethylbenzene	U	0.0019	0.0050	mg/kg		8260B	11/13/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	11/13/11	5
Surrogate Recovery								
Toluene-d8	109.			% Rec.		8260B	11/13/11	5
Dibromofluoromethane	121.			% Rec.		8260B	11/13/11	5
a,a,a-Trifluorotoluene	101.			% Rec.		8260B	11/13/11	5
4-Bromofluorobenzene	102.			% Rec.		8260B	11/13/11	5
TPH (GC/FID) High Fraction	9.0	0.77	4.0	mg/kg		3546/DR	11/14/11	1
Surrogate recovery(%)								
o-Terphenyl	54.8			% Rec.		3546/DR	11/14/11	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: 11/18/11 13:55 Printed: 11/18/11 13:55
L546248-01 (PH) - 7.72@19.4c



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Est. 1970

REPORT OF ANALYSIS

November 18, 2011

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

ESC Sample # : L546248-01

Date Received : November 10, 2011
Description : Shell 697-03B Background

Site ID :

Sample ID : SHELL03B-BG-SE 13 IN

Project # : 900546.0005.010

Collected By : CJB
Collection Date : 11/08/11 14:06

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	11/12/11	1
Acenaphthene	U	0.00071	0.0060	mg/kg		8270C-S	11/12/11	1
Acenaphthylene	U	0.00057	0.0060	mg/kg		8270C-S	11/12/11	1
Benzo(a)anthracene	U	0.00092	0.0060	mg/kg		8270C-S	11/12/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	11/15/11	1
Benzo(b)fluoranthene	0.0013	0.00082	0.0060	mg/kg	JV3	8270C-S	11/15/11	1
Benzo(g,h,i)perylene	0.0023	0.0012	0.0060	mg/kg	JV3	8270C-S	11/15/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	11/15/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	11/12/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	11/15/11	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	11/12/11	1
Fluorene	U	0.00055	0.0060	mg/kg		8270C-S	11/12/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	11/15/11	1
Naphthalene	U	0.00065	0.0060	mg/kg		8270C-S	11/12/11	1
Phenanthrene	0.00074	0.00074	0.0060	mg/kg	J	8270C-S	11/12/11	1
Pyrene	U	0.00059	0.0060	mg/kg		8270C-S	11/12/11	1
1-Methylnaphthalene	U	0.00079	0.0060	mg/kg		8270C-S	11/12/11	1
2-Methylnaphthalene	U	0.00059	0.0060	mg/kg		8270C-S	11/12/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	11/12/11	1
Surrogate Recovery								
Nitrobenzene-d5	94.8			% Rec.		8270C-S	11/12/11	1
2-Fluorobiphenyl	86.1			% Rec.		8270C-S	11/12/11	1
p-Terphenyl-d14	104.			% Rec.		8270C-S	11/12/11	1

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REPORT OF ANALYSIS

November 18, 2011

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

Date Received : November 10, 2011
Description : Shell 697-03B Background
Sample ID : SHELL03B-BG-E 8 IN
Collected By : CJB
Collection Date : 11/08/11 14:17

ESC Sample # : L546248-02

Site ID :

Project # : 900546.0005.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	1.1	0.71	2.0	mg/kg	J	3060A/7	11/17/11	1
Chromium, Trivalent	13.	0.17	2.0	mg/kg		Calc.	11/14/11	1
ORP	160			mV	T8	2580	11/15/11	1
pH	7.8			su	T8	9045D	11/15/11	1
Sodium Adsorption Ratio	1.1					Calc.	11/16/11	1
Specific Conductance	130			umhos/cm		9050AMo	11/16/11	1
Mercury	0.019	0.0015	0.020	mg/kg	J	7471	11/12/11	1
Arsenic	9.9	0.32	1.0	mg/kg		6010B	11/14/11	1
Barium	220	0.050	0.25	mg/kg		6010B	11/14/11	1
Cadmium	U	0.040	0.25	mg/kg		6010B	11/16/11	1
Chromium	14.	0.085	0.50	mg/kg		6010B	11/14/11	1
Copper	19.	1.0	5.0	mg/kg		6010B	11/14/11	5
Lead	18.	0.45	1.3	mg/kg		6010B	11/14/11	5
Nickel	16.	0.26	1.0	mg/kg		6010B	11/14/11	1
Selenium	4.4	0.32	1.0	mg/kg		6010B	11/14/11	1
Silver	U	0.82	2.5	mg/kg	O	6010B	11/14/11	5
Zinc	52.	0.34	1.5	mg/kg		6010B	11/14/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	11/11/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (FID)	97.9			% Rec.		602/801	11/11/11	5
Benzene	U	0.0017	0.0050	mg/kg		8260B	11/12/11	5
Toluene	U	0.0016	0.025	mg/kg		8260B	11/12/11	5
Ethylbenzene	U	0.0019	0.0050	mg/kg		8260B	11/12/11	5
Total Xylenes	0.0024	0.0023	0.015	mg/kg	J	8260B	11/12/11	5
Surrogate Recovery								
Toluene-d8	106.			% Rec.		8260B	11/12/11	5
Dibromofluoromethane	118.			% Rec.		8260B	11/12/11	5
a,a,a-Trifluorotoluene	92.9			% Rec.		8260B	11/12/11	5
4-Bromofluorobenzene	98.0			% Rec.		8260B	11/12/11	5
TPH (GC/FID) High Fraction	3.9	0.77	4.0	mg/kg	J	3546/DR	11/14/11	1
Surrogate recovery(%) o-Terphenyl	54.3			% Rec.		3546/DR	11/14/11	1

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REPORT OF ANALYSIS

November 18, 2011

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

Date Received : November 10, 2011
Description : Shell 697-03B Background
Sample ID : SHELL03B-BG-E 8 IN
Collected By : CJB
Collection Date : 11/08/11 14:17

ESC Sample # : L546248-02

Site ID :

Project # : 900546.0005.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	11/12/11	1
Acenaphthene	U	0.00071	0.0060	mg/kg		8270C-S	11/12/11	1
Acenaphthylene	U	0.00057	0.0060	mg/kg		8270C-S	11/12/11	1
Benzo(a)anthracene	U	0.00092	0.0060	mg/kg		8270C-S	11/12/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	11/12/11	1
Benzo(b)fluoranthene	0.00098	0.00082	0.0060	mg/kg	J	8270C-S	11/12/11	1
Benzo(g,h,i)perylene	0.0021	0.0012	0.0060	mg/kg	J	8270C-S	11/12/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	11/12/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	11/12/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	11/12/11	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	11/12/11	1
Fluorene	U	0.00055	0.0060	mg/kg		8270C-S	11/12/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	11/12/11	1
Naphthalene	U	0.00065	0.0060	mg/kg		8270C-S	11/12/11	1
Phenanthrene	0.00089	0.00074	0.0060	mg/kg	J	8270C-S	11/12/11	1
Pyrene	U	0.00059	0.0060	mg/kg		8270C-S	11/12/11	1
1-Methylnaphthalene	U	0.00079	0.0060	mg/kg		8270C-S	11/12/11	1
2-Methylnaphthalene	0.00079	0.00059	0.0060	mg/kg	J	8270C-S	11/12/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	11/12/11	1
Surrogate Recovery								
Nitrobenzene-d5	89.5			% Rec.		8270C-S	11/12/11	1
2-Fluorobiphenyl	77.3			% Rec.		8270C-S	11/12/11	1
p-Terphenyl-d14	113.			% Rec.		8270C-S	11/12/11	1

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L546248-02 (PH) - 7.76@19.7c



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REPORT OF ANALYSIS

November 18, 2011

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

ESC Sample # : L546248-03

Site ID :

Project # : 900546.0005.010

Date Received : November 10, 2011
Description : Shell 697-03B Background
Sample ID : SHELL03B-BG-W 10 IN
Collected By : CJB
Collection Date : 11/08/11 14:36

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	1.0	0.71	2.0	mg/kg	J	3060A/7	11/17/11	1
Chromium, Trivalent	20.	0.17	2.0	mg/kg		Calc.	11/14/11	1
ORP	100			mV	T8	2580	11/16/11	1
pH	7.8			su	T8	9045D	11/15/11	1
Sodium Adsorption Ratio	0.59					Calc.	11/16/11	1
Specific Conductance	92.			umhos/cm		9050AMo	11/16/11	1
Mercury	0.018	0.0015	0.020	mg/kg	J	7471	11/12/11	1
Arsenic	17.	0.32	1.0	mg/kg		6010B	11/14/11	1
Barium	290	0.050	0.25	mg/kg		6010B	11/14/11	1
Cadmium	U	0.040	0.25	mg/kg		6010B	11/16/11	1
Chromium	21.	0.085	0.50	mg/kg		6010B	11/14/11	1
Copper	28.	1.0	5.0	mg/kg		6010B	11/14/11	5
Lead	24.	0.45	1.3	mg/kg		6010B	11/14/11	5
Nickel	16.	0.26	1.0	mg/kg		6010B	11/14/11	1
Selenium	4.8	0.32	1.0	mg/kg		6010B	11/14/11	1
Silver	U	0.82	2.5	mg/kg	O	6010B	11/14/11	5
Zinc	54.	0.34	1.5	mg/kg		6010B	11/14/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	11/11/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (FID)	97.6			% Rec.		602/801	11/11/11	5
Benzene	U	0.0017	0.0050	mg/kg		8260B	11/12/11	5
Toluene	U	0.0016	0.025	mg/kg		8260B	11/12/11	5
Ethylbenzene	U	0.0019	0.0050	mg/kg		8260B	11/12/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	11/12/11	5
Surrogate Recovery								
Toluene-d8	106.			% Rec.		8260B	11/12/11	5
Dibromofluoromethane	121.			% Rec.		8260B	11/12/11	5
a,a,a-Trifluorotoluene	95.6			% Rec.		8260B	11/12/11	5
4-Bromofluorobenzene	102.			% Rec.		8260B	11/12/11	5
TPH (GC/FID) High Fraction	22.	3.8	20.	mg/kg		3546/DR	11/14/11	5
Surrogate recovery(%) o-Terphenyl	50.3			% Rec.		3546/DR	11/14/11	5

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RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Reported: 11/18/11 13:55 Printed: 11/18/11 13:55
L546248-03 (PH) - 7.82@19.6c



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

November 18, 2011

Date Received : November 10, 2011
Description : Shell 697-03B Background
Sample ID : SHELL03B-BG-W 10 IN
Collected By : CJB
Collection Date : 11/08/11 14:36

ESC Sample # : L546248-03

Site ID :

Project # : 900546.0005.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	11/12/11	1
Acenaphthene	U	0.00071	0.0060	mg/kg		8270C-S	11/12/11	1
Acenaphthylene	U	0.00057	0.0060	mg/kg		8270C-S	11/12/11	1
Benzo(a)anthracene	U	0.00092	0.0060	mg/kg		8270C-S	11/12/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	11/12/11	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	11/12/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	11/12/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	11/12/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	11/12/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	11/12/11	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	11/12/11	1
Fluorene	U	0.00055	0.0060	mg/kg		8270C-S	11/12/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	11/12/11	1
Naphthalene	U	0.00065	0.0060	mg/kg		8270C-S	11/12/11	1
Phenanthrene	0.0010	0.00074	0.0060	mg/kg	J	8270C-S	11/12/11	1
Pyrene	0.00076	0.00059	0.0060	mg/kg	J	8270C-S	11/12/11	1
1-Methylnaphthalene	U	0.00079	0.0060	mg/kg		8270C-S	11/12/11	1
2-Methylnaphthalene	U	0.00059	0.0060	mg/kg		8270C-S	11/12/11	1
2-Chloronaphthalene	0.00067	0.00060	0.0060	mg/kg	J	8270C-S	11/12/11	1
Surrogate Recovery								
Nitrobenzene-d5	82.8			% Rec.		8270C-S	11/12/11	1
2-Fluorobiphenyl	72.0			% Rec.		8270C-S	11/12/11	1
p-Terphenyl-d14	99.7			% Rec.		8270C-S	11/12/11	1

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Reported: 11/18/11 13:55 Printed: 11/18/11 13:55
L546248-03 (PH) - 7.82@19.6c



L.A.B S.C.I.E.N.C.E.S

YOUR LAB OF CHOICE

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Est. 1970

REPORT OF ANALYSIS

November 18, 2011

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

ESC Sample # : L546248-04

Date Received : November 10, 2011
Description : Shell 697-03B Background

Site ID :

Sample ID : SHELL03B-BG-SW 16 IN

Project # : 900546.0005.010

Collected By : CJB
Collection Date : 11/08/11 14:45

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	0.71	2.0	mg/kg		3060A/7	11/17/11	1
Chromium, Trivalent	30.	0.17	2.0	mg/kg		Calc.	11/13/11	1
ORP	110			mV	T8	2580	11/16/11	1
pH	8.0			su	T8	9045D	11/15/11	1
Sodium Adsorption Ratio	0.77					Calc.	11/16/11	1
Specific Conductance	150			umhos/cm		9050AMo	11/16/11	1
Mercury	0.018	0.0015	0.020	mg/kg	J	7471	11/12/11	1
Arsenic	18.	0.32	1.0	mg/kg		6010B	11/13/11	1
Barium	310	0.050	0.25	mg/kg	V	6010B	11/13/11	1
Cadmium	U	0.040	0.25	mg/kg		6010B	11/16/11	1
Chromium	30.	0.085	0.50	mg/kg		6010B	11/13/11	1
Copper	24.	1.0	5.0	mg/kg		6010B	11/13/11	5
Lead	23.	0.45	1.3	mg/kg		6010B	11/13/11	5
Nickel	18.	0.26	1.0	mg/kg	J3	6010B	11/13/11	1
Selenium	3.9	0.32	1.0	mg/kg		6010B	11/13/11	1
Silver	1.1	0.82	2.5	mg/kg	JP1	6010B	11/13/11	5
Zinc	56.	0.34	1.5	mg/kg		6010B	11/13/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	11/11/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (FID)	94.5			% Rec.		602/801	11/11/11	5
Benzene	U	0.0017	0.0050	mg/kg		8260B	11/12/11	5
Toluene	U	0.0016	0.025	mg/kg		8260B	11/12/11	5
Ethylbenzene	U	0.0019	0.0050	mg/kg		8260B	11/12/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	11/12/11	5
Surrogate Recovery								
Toluene-d8	105.			% Rec.		8260B	11/12/11	5
Dibromofluoromethane	121.			% Rec.		8260B	11/12/11	5
a,a,a-Trifluorotoluene	93.8			% Rec.		8260B	11/12/11	5
4-Bromofluorobenzene	101.			% Rec.		8260B	11/12/11	5
TPH (GC/FID) High Fraction	20.	3.8	20.	mg/kg	J	3546/DR	11/14/11	5
Surrogate recovery(%) o-Terphenyl	56.4			% Rec.		3546/DR	11/14/11	5

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Reported: 11/18/11 13:55 Printed: 11/18/11 13:55

L546248-04 (PH) - 7.98@19.0c

L546248-04 (SV8270PAHSIM) - low IS confirmed by MS/D



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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

November 18, 2011

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

ESC Sample # : L546248-04

Date Received : November 10, 2011
Description : Shell 697-03B Background

Site ID :

Sample ID : SHELL03B-BG-SW 16 IN

Project # : 900546.0005.010

Collected By : CJB
Collection Date : 11/08/11 14:45

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	11/12/11	1
Acenaphthene	U	0.00071	0.0060	mg/kg		8270C-S	11/12/11	1
Acenaphthylene	U	0.00057	0.0060	mg/kg	J3	8270C-S	11/12/11	1
Benzo(a)anthracene	U	0.00092	0.0060	mg/kg		8270C-S	11/12/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	11/12/11	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	11/12/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	11/12/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg	J3	8270C-S	11/12/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	11/12/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	11/12/11	1
Fluoranthene	U	0.0010	0.0060	mg/kg	J3	8270C-S	11/12/11	1
Fluorene	U	0.00055	0.0060	mg/kg		8270C-S	11/12/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	11/12/11	1
Naphthalene	U	0.00065	0.0060	mg/kg	J3	8270C-S	11/12/11	1
Phenanthrene	U	0.00074	0.0060	mg/kg		8270C-S	11/12/11	1
Pyrene	U	0.00059	0.0060	mg/kg		8270C-S	11/12/11	1
1-Methylnaphthalene	U	0.00079	0.0060	mg/kg		8270C-S	11/12/11	1
2-Methylnaphthalene	U	0.00059	0.0060	mg/kg		8270C-S	11/12/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg	J3	8270C-S	11/12/11	1
Surrogate Recovery								
Nitrobenzene-d5	67.5			% Rec.		8270C-S	11/12/11	1
2-Fluorobiphenyl	60.2			% Rec.		8270C-S	11/12/11	1
p-Terphenyl-d14	70.2			% Rec.		8270C-S	11/12/11	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: 11/18/11 13:55 Printed: 11/18/11 13:55

L546248-04 (PH) - 7.98@19.0c

L546248-04 (SV8270PAHSIM) - low IS confirmed by MS/D

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L546248-01	WG565134	SAMP	Silver	R1935293	O
	WG565775	SAMP	Chromium, Hexavalent	R1935553	J
	WG565259	SAMP	Mercury	R1930273	J
	WG565580	SAMP	pH	R1932292	T8
	WG565106	SAMP	Benzo(b) fluoranthene	R1930692	JV3
	WG565106	SAMP	Benzo(g,h,i) perylene	R1930692	JV3
	WG565106	SAMP	Phenanthrene	R1930692	J
	WG565448	SAMP	ORP	R1932960	T8
L546248-02	WG565134	SAMP	Silver	R1935293	O
	WG565225	SAMP	TPH (GC/FID) High Fraction	R1930118	J
	WG565775	SAMP	Chromium, Hexavalent	R1935553	J
	WG565259	SAMP	Mercury	R1930273	J
	WG565285	SAMP	Total Xylenes	R1931812	J
	WG565580	SAMP	pH	R1932292	T8
	WG565106	SAMP	Benzo(b) fluoranthene	R1930692	J
	WG565106	SAMP	Benzo(g,h,i) perylene	R1930692	J
	WG565106	SAMP	Phenanthrene	R1930692	J
	WG565106	SAMP	2-Methylnaphthalene	R1930692	J
	WG565448	SAMP	ORP	R1932960	T8
	WG565134	SAMP	Silver	R1935293	O
L546248-03	WG565775	SAMP	Chromium, Hexavalent	R1935553	J
	WG565259	SAMP	Mercury	R1930273	J
	WG565580	SAMP	pH	R1932292	T8
	WG565106	SAMP	Phenanthrene	R1930692	J
	WG565106	SAMP	Pyrene	R1930692	J
	WG565106	SAMP	2-Chloronaphthalene	R1930692	J
	WG565578	SAMP	ORP	R1933894	T8
	WG565134	SAMP	Barium	R1935293	V
L546248-04	WG565134	SAMP	Nickel	R1935293	J3
	WG565134	SAMP	Silver	R1935293	JP1
	WG565225	SAMP	TPH (GC/FID) High Fraction	R1930118	J
	WG565259	SAMP	Mercury	R1930273	J
	WG565675	SAMP	pH	R1932493	T8
	WG565246	SAMP	Acenaphthylene	R1929453	J3
	WG565246	SAMP	Benzo(k) fluoranthene	R1929453	J3
	WG565246	SAMP	Fluoranthene	R1929453	J3
	WG565246	SAMP	Naphthalene	R1929453	J3
	WG565246	SAMP	2-Chloronaphthalene	R1929453	J3
	WG565578	SAMP	ORP	R1933894	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J3	The associated batch QC was outside the established quality control range for precision.
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.
V	(ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.
V3	(ESC) - Additional QC Info: The internal standard exhibited poor recovery due to sample matrix interference. The analytical results will be biased high. BDL results will be unaffected.

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
11/18/11 at 13:55:54

TSR Signing Reports: 134
R5 - Desired TAT

Sample: L546248-01 Account: OXYGJCO Received: 11/10/11 09:00 Due Date: 11/17/11 00:00 RPT Date: 11/18/11 13:55
Sample: L546248-02 Account: OXYGJCO Received: 11/10/11 09:00 Due Date: 11/17/11 00:00 RPT Date: 11/18/11 13:55
Sample: L546248-03 Account: OXYGJCO Received: 11/10/11 09:00 Due Date: 11/17/11 00:00 RPT Date: 11/18/11 13:55
Sample: L546248-04 Account: OXYGJCO Received: 11/10/11 09:00 Due Date: 11/17/11 00:00 RPT Date: 11/18/11 13:55

B058

Page 1 of 1

Alternate billing information:

CO Table 910

OXY USA WTP LP. -

Grand Junction, CO

760 Horizon Dr., Ste 101

Grand Junction, CO 81506

Project

Description:

Shell 697-03B Backgnd

Phone: (970) 263-3601

FAX:

Client Project #:

900546 0005.010

Collected by: GJB

Site/Facility ID#:

P.O.#:

Collected by (signature):

Rush?

(Lab MUST Be Notified)

Same Day.....200%

Next Day.....100%

Two Day50%

Packed on Ice N

Date Results Needed:

Email? No Yes

FAX? No Yes

No.

of

Cnts

Sample ID

Comp/Grab

Matrix*

Depth

Date

Time

V8260BTEX, GRO

DRO, SV8270PAHSIM

SAR, SPCON, pH

MRCRA8 + Cu, Ni, Zn

CR3, CR6SS

CoCode OXYGJCO (lab use only)

Template/Prelogin

Shipped Via:

Remarks/Contaminant

Sample # (lab only)

LSY624801

02

03

04

*Matrix SS - Soil/Solid GW - Groundwater WW - Waste/Water DW - Drinking Water OT - Other

pH Temp

Remarks:

Flow Other

Relinquished by: (Signature)

Date: 11/19/11

Time: 5:00

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Date:

Time:

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

Report Summary

Monday December 05, 2011

Report Number: L548735

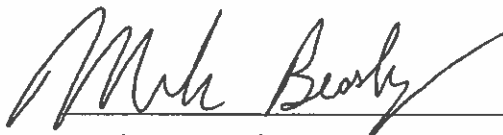
Samples Received: 11/29/11

Client Project:

Description: Shell 797 03B Cap

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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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, PA - 68-02979

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REPORT OF ANALYSIS

December 05, 2011

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

ESC Sample # : L548735-01

Date Received : November 29, 2011
Description : Shell 797 03B Cap
Sample ID : SHELL 79703BRPCAP 4-6FT
Collected By : Brennen Graff
Collection Date : 11/28/11 13:58

Site ID : SHELL 79703B

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	0.71	2.0	mg/kg		3060A/7	12/01/11	1
Chromium, Trivalent	16.	0.17	2.0	mg/kg		Calc.	11/30/11	1
ORP	220			mV	T8	2580	12/02/11	1
pH	8.3			su		9045D	11/30/11	1
Sodium Adsorption Ratio	6.7					Calc.	12/01/11	1
Specific Conductance	1000			umhos/cm		9050AMo	12/01/11	1
Mercury	0.014	0.0015	0.020	mg/kg	J	7471	11/30/11	1
Arsenic	14.	1.6	5.0	mg/kg		6010B	11/30/11	5
Barium	490	0.050	0.25	mg/kg		6010B	11/30/11	1
Cadmium	0.43	0.040	0.25	mg/kg		6010B	11/30/11	1
Chromium	16.	0.085	0.50	mg/kg		6010B	11/30/11	1
Copper	18.	0.21	1.0	mg/kg		6010B	11/30/11	1
Lead	8.5	0.45	1.3	mg/kg	B	6010B	11/30/11	5
Nickel	18.	1.3	5.0	mg/kg		6010B	11/30/11	5
Selenium	U	1.6	5.0	mg/kg	O	6010B	11/30/11	5
Silver	U	0.16	0.50	mg/kg		6010B	11/30/11	1
Zinc	58.	0.34	1.5	mg/kg		6010B	11/30/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	11/30/11	5
Surrogate Recovery (70-130)								
a,a,a-Trifluorotoluene (FID)	93.6			% Rec.		602/801	11/30/11	5
Benzene	U	0.0017	0.0050	mg/kg	J3	8260B	11/29/11	5
Toluene	U	0.0016	0.025	mg/kg	J3	8260B	11/29/11	5
Ethylbenzene	U	0.0019	0.0050	mg/kg	J3	8260B	11/29/11	5
Total Xylenes	U	0.0023	0.015	mg/kg	J3	8260B	11/29/11	5
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	11/29/11	5
Dibromofluoromethane	105.			% Rec.		8260B	11/29/11	5
a,a,a-Trifluorotoluene	102.			% Rec.		8260B	11/29/11	5
4-Bromofluorobenzene	100.			% Rec.		8260B	11/29/11	5
TPH (GC/FID) High Fraction	4.4	0.77	4.0	mg/kg		3546/DR	12/01/11	1
Surrogate recovery(%)								
o-Terphenyl	74.9			% Rec.		3546/DR	12/01/11	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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REPORT OF ANALYSIS

December 05, 2011

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

ESC Sample # : L548735-01

Date Received : November 29, 2011
Description : Shell 797 03B Cap

Site ID : SHELL 79703B

Sample ID : SHELL 79703BRPCAP 4-6FT

Project # :

Collected By : Brennen Graff
Collection Date : 11/28/11 13:58

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	11/30/11	1
Acenaphthene	U	0.00071	0.0060	mg/kg		8270C-S	11/30/11	1
Acenaphthylene	U	0.00057	0.0060	mg/kg		8270C-S	11/30/11	1
Benzo(a)anthracene	U	0.00092	0.0060	mg/kg		8270C-S	11/30/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	11/30/11	1
Benzo(b)fluoranthene	0.0013	0.00082	0.0060	mg/kg	J	8270C-S	11/30/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	11/30/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	11/30/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	11/30/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	11/30/11	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	11/30/11	1
Fluorene	0.0016	0.00055	0.0060	mg/kg	J	8270C-S	11/30/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	11/30/11	1
Naphthalene	0.0065	0.00065	0.0060	mg/kg		8270C-S	11/30/11	1
Phenanthrene	0.0038	0.00074	0.0060	mg/kg	J	8270C-S	11/30/11	1
Pyrene	0.0015	0.00059	0.0060	mg/kg	J	8270C-S	11/30/11	1
1-Methylnaphthalene	0.0048	0.00079	0.0060	mg/kg	J	8270C-S	11/30/11	1
2-Methylnaphthalene	0.013	0.00059	0.0060	mg/kg		8270C-S	11/30/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	11/30/11	1
Surrogate Recovery								
Nitrobenzene-d5	75.0			% Rec.		8270C-S	11/30/11	1
2-Fluorobiphenyl	67.8			% Rec.		8270C-S	11/30/11	1
p-Terphenyl-d14	61.6			% Rec.		8270C-S	11/30/11	1

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L548735-01	WG567697	SAMP	Lead	R1950192	B
	WG567697	SAMP	Selenium	R1950192	O
	WG567674	SAMP	Mercury	R1950572	J
	WG567672	SAMP	Benzene	R1949714	J3
	WG567672	SAMP	Toluene	R1949714	J3
	WG567672	SAMP	Ethylbenzene	R1949714	J3
	WG567672	SAMP	Total Xylenes	R1949714	J3
	WG567700	SAMP	Benzo(b)fluoranthene	R1949913	J
	WG567700	SAMP	Fluorene	R1949913	J
	WG567700	SAMP	Phenanthrene	R1949913	J
	WG567700	SAMP	Pyrene	R1949913	J
	WG567700	SAMP	1-Methylnaphthalene	R1949913	J
	WG568127	SAMP	ORP	R1952914	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
B	(EPA) - The indicated compound was found in the associated method blank as well as the laboratory sample.
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J3	The associated batch QC was outside the established quality control range for precision.
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.
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.

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

Report Summary

Thursday September 15, 2011

Report Number: L535339

Samples Received: 09/10/11

Client Project: 900546.0005.010

Description: 797-03B

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

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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in laboratory standard operating procedures: 060302, 060303, and 060304.

REPORT OF ANALYSIS

September 15, 2011

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

ESC Sample # : L535339-01

Date Received : September 10, 2011
Description : 797-03B

Site ID :

Sample ID : 797-03B-NE 2 FT

Project # : 900546.0005.010

Collected By : CJB
Collection Date : 09/09/11 08:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	0.71	2.0	mg/kg		3060A/7	09/14/11	1
Chromium, Trivalent	15.	0.17	2.0	mg/kg		Calc.	09/12/11	1
ORP	150			mV		2580	09/14/11	1
pH	8.6			su		9045D	09/13/11	1
Sodium Adsorption Ratio	8.2					Calc.	09/13/11	1
Specific Conductance	730			umhos/cm		9050AMo	09/11/11	1
Mercury	0.018	0.0015	0.020	mg/kg	J	7471	09/11/11	1
Arsenic	11.	0.32	1.0	mg/kg		6010B	09/12/11	1
Barium	1300	0.050	0.25	mg/kg		6010B	09/12/11	1
Cadmium	0.27	0.040	0.25	mg/kg		6010B	09/12/11	1
Chromium	15.	0.085	0.50	mg/kg		6010B	09/12/11	1
Copper	24.	1.0	5.0	mg/kg		6010B	09/12/11	5
Lead	15.	0.45	1.3	mg/kg		6010B	09/12/11	5
Nickel	17.	0.26	1.0	mg/kg		6010B	09/12/11	1
Selenium	4.2	0.32	1.0	mg/kg		6010B	09/12/11	1
Silver	0.94	0.82	2.5	mg/kg	J	6010B	09/12/11	5
Zinc	60.	0.34	1.5	mg/kg		6010B	09/12/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg	J3	8015D/G	09/10/11	5
Surrogate Recovery (70-130) a, a, a-Trifluorotoluene (FID)	101.			% Rec.		602/801	09/10/11	5
Benzene	U	0.0017	0.0050	mg/kg	J3	8260B	09/11/11	5
Toluene	U	0.0016	0.025	mg/kg	J3	8260B	09/11/11	5
Ethylbenzene	U	0.0019	0.0050	mg/kg	J3	8260B	09/11/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	09/11/11	5
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	09/11/11	5
Dibromofluoromethane	103.			% Rec.		8260B	09/11/11	5
a, a, a-Trifluorotoluene	108.			% Rec.		8260B	09/11/11	5
4-Bromofluorobenzene	105.			% Rec.		8260B	09/11/11	5
TPH (GC/FID) High Fraction	49.	0.77	4.0	mg/kg		3546/DR	09/14/11	1
Surrogate recovery(%) o-Terphenyl	83.4			% Rec.		3546/DR	09/14/11	1

U = ND (Not Detected)

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Note:

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REPORT OF ANALYSIS

September 15, 2011

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

Date Received : September 10, 2011
Description : 797-03B

Sample ID : 797-03B-NE 2 FT

Collected By : CJB
Collection Date : 09/09/11 08:50

ESC Sample # : L535339-01

Site ID :

Project # : 900546.0005.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	09/12/11	1
Acenaphthene	0.0042	0.00071	0.0060	mg/kg	J	8270C-S	09/12/11	1
Acenaphthylene	0.0011	0.00057	0.0060	mg/kg	J	8270C-S	09/12/11	1
Benzo(a)anthracene	0.0015	0.00092	0.0060	mg/kg	J	8270C-S	09/12/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	09/12/11	1
Benzo(b)fluoranthene	0.0012	0.00082	0.0060	mg/kg	J	8270C-S	09/12/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	09/12/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	09/12/11	1
Chrysene	0.0016	0.0011	0.0060	mg/kg	J	8270C-S	09/12/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	09/12/11	1
Fluoranthene	0.0014	0.0010	0.0060	mg/kg	J	8270C-S	09/12/11	1
Fluorene	0.0093	0.00055	0.0060	mg/kg		8270C-S	09/12/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	09/12/11	1
Naphthalene	0.025	0.00065	0.0060	mg/kg		8270C-S	09/12/11	1
Phenanthrene	0.015	0.00074	0.0060	mg/kg		8270C-S	09/12/11	1
Pyrene	0.0035	0.00059	0.0060	mg/kg	J	8270C-S	09/12/11	1
1-Methylnaphthalene	0.027	0.00079	0.0060	mg/kg		8270C-S	09/12/11	1
2-Methylnaphthalene	0.054	0.00059	0.0060	mg/kg		8270C-S	09/12/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	09/12/11	1
Surrogate Recovery								
Nitrobenzene-d5	131.			% Rec.		8270C-S	09/12/11	1
2-Fluorobiphenyl	78.0			% Rec.		8270C-S	09/12/11	1
p-Terphenyl-d14	99.3			% Rec.		8270C-S	09/12/11	1

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MDL = Minimum Detection Limit = LOD

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Note:

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REPORT OF ANALYSIS

September 15, 2011

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

ESC Sample # : L535339-02

Date Received : September 10, 2011
Description : 797-03B

Site ID :

Sample ID : 797-03B-SE 1.5 FT

Project # : 900546.0005.010

Collected By : CJB
Collection Date : 09/09/11 08:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	0.71	2.0	mg/kg		3060A/7	09/14/11	1
Chromium, Trivalent	9.8	0.17	0.50	mg/kg		Calc.	09/12/11	1
ORP	150			mV		2580	09/14/11	1
pH	8.6			su		9045D	09/13/11	1
Sodium Adsorption Ratio	2.9					Calc.	09/13/11	1
Specific Conductance	190			umhos/cm		9050AMo	09/11/11	1
Mercury	0.018	0.0015	0.020	mg/kg	J	7471	09/11/11	1
Arsenic	3.4	0.32	1.0	mg/kg	P1	6010B	09/12/11	1
Barium	150	0.050	0.25	mg/kg	J5	6010B	09/12/11	1
Cadmium	0.39	0.040	0.25	mg/kg		6010B	09/12/11	1
Chromium	9.8	0.085	0.50	mg/kg	J3	6010B	09/12/11	1
Copper	10.	1.0	5.0	mg/kg	J3	6010B	09/12/11	5
Lead	8.1	0.45	1.3	mg/kg	J3	6010B	09/12/11	5
Nickel	10.	0.26	1.0	mg/kg	J3	6010B	09/12/11	1
Selenium	5.1	0.32	1.0	mg/kg		6010B	09/12/11	1
Silver	U	0.82	2.5	mg/kg	O	6010B	09/12/11	5
Zinc	43.	0.34	1.5	mg/kg		6010B	09/12/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	09/10/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (FID)	103.			% Rec.		602/801	09/10/11	5
Benzene	U	0.0017	0.0050	mg/kg		8260B	09/11/11	5
Toluene	U	0.0016	0.025	mg/kg		8260B	09/11/11	5
Ethylbenzene	U	0.0019	0.0050	mg/kg		8260B	09/11/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	09/11/11	5
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	09/11/11	5
Dibromofluoromethane	104.			% Rec.		8260B	09/11/11	5
a,a,a-Trifluorotoluene	109.			% Rec.		8260B	09/11/11	5
4-Bromofluorobenzene	125.			% Rec.		8260B	09/11/11	5
TPH (GC/FID) High Fraction	3.0	0.77	4.0	mg/kg	J	3546/DR	09/13/11	1
Surrogate recovery(%) o-Terphenyl	67.9			% Rec.		3546/DR	09/13/11	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

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L535339-02 (PH) - 8.61@20.7c



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

September 15, 2011

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

Date Received : September 10, 2011
Description : 797-03B

ESC Sample # : L535339-02

Sample ID : 797-03B-SE 1.5 FT

Site ID :

Collected By : CJB
Collection Date : 09/09/11 08:50

Project # : 900546.0005.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	09/12/11	1
Acenaphthene	U	0.00071	0.0060	mg/kg		8270C-S	09/12/11	1
Acenaphthylene	U	0.00057	0.0060	mg/kg		8270C-S	09/12/11	1
Benzo(a)anthracene	U	0.00092	0.0060	mg/kg		8270C-S	09/12/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	09/12/11	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	09/12/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	09/12/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	09/12/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	09/12/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	09/12/11	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	09/12/11	1
Fluorene	U	0.00055	0.0060	mg/kg		8270C-S	09/12/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	09/12/11	1
Naphthalene	U	0.00065	0.0060	mg/kg		8270C-S	09/12/11	1
Phenanthrene	0.0019	0.00074	0.0060	mg/kg	J	8270C-S	09/12/11	1
Pyrene	U	0.00059	0.0060	mg/kg		8270C-S	09/12/11	1
1-Methylnaphthalene	0.0011	0.00079	0.0060	mg/kg	J	8270C-S	09/12/11	1
2-Methylnaphthalene	0.0023	0.00059	0.0060	mg/kg	J	8270C-S	09/12/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	09/12/11	1
Surrogate Recovery								
Nitrobenzene-d5	82.4			% Rec.		8270C-S	09/12/11	1
2-Fluorobiphenyl	88.3			% Rec.		8270C-S	09/12/11	1
p-Terphenyl-d14	108.			% Rec.		8270C-S	09/12/11	1

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MDL = Minimum Detection Limit = LOD

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REPORT OF ANALYSIS

September 15, 2011

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

Date Received : September 10, 2011
Description : 797-03B

Sample ID : 797-03B-NW 6 IN

Collected By : CJB
Collection Date : 09/09/11 08:50

ESC Sample # : L535339-03

Site ID :

Project # : 900546.0005.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	0.71	2.0	mg/kg		3060A/7	09/14/11	1
Chromium, Trivalent	14.	0.17	2.0	mg/kg		Calc.	09/12/11	1
ORP	130			mV		2580	09/14/11	1
pH	8.9			su		9045D	09/13/11	1
Sodium Adsorption Ratio	4.5					Calc.	09/13/11	1
Specific Conductance	320			umhos/cm		9050AMo	09/11/11	1
Mercury	0.022	0.0015	0.020	mg/kg		7471	09/11/11	1
Arsenic	5.6	0.32	1.0	mg/kg		6010B	09/12/11	1
Barium	760	0.050	0.25	mg/kg		6010B	09/12/11	1
Cadmium	0.34	0.040	0.25	mg/kg		6010B	09/12/11	1
Chromium	14.	0.085	0.50	mg/kg		6010B	09/12/11	1
Copper	16.	1.0	5.0	mg/kg		6010B	09/12/11	5
Lead	12.	0.45	1.3	mg/kg		6010B	09/12/11	5
Nickel	13.	0.26	1.0	mg/kg		6010B	09/12/11	1
Selenium	4.0	0.32	1.0	mg/kg		6010B	09/12/11	1
Silver	U	0.82	2.5	mg/kg	O	6010B	09/12/11	5
Zinc	57.	0.34	1.5	mg/kg		6010B	09/12/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	09/10/11	5
Surrogate Recovery (70-130)								
a, a, a-Trifluorotoluene (FID)	101.			% Rec.		602/801	09/10/11	5
Benzene	U	0.0017	0.0050	mg/kg		8260B	09/11/11	5
Toluene	U	0.0016	0.025	mg/kg		8260B	09/11/11	5
Ethylbenzene	U	0.0019	0.0050	mg/kg		8260B	09/11/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	09/11/11	5
Surrogate Recovery								
Toluene-d8	99.9			% Rec.		8260B	09/11/11	5
Dibromofluoromethane	99.4			% Rec.		8260B	09/11/11	5
a, a, a-Trifluorotoluene	109.			% Rec.		8260B	09/11/11	5
4-Bromofluorobenzene	109.			% Rec.		8260B	09/11/11	5
TPH (GC/FID) High Fraction	90.	0.77	4.0	mg/kg		3546/DR	09/14/11	1
Surrogate recovery(%)								
o-Terphenyl	59.0			% Rec.		3546/DR	09/14/11	1

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REPORT OF ANALYSIS

September 15, 2011

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

ESC Sample # : L535339-03

Site ID :

Project # : 900546.0005.010

Date Received : September 10, 2011
Description : 797-03B
Sample ID : 797-03B-NW 6 IN
Collected By : CJB
Collection Date : 09/09/11 08:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	09/11/11	1
Acenaphthene	0.0024	0.00071	0.0060	mg/kg	J	8270C-S	09/11/11	1
Acenaphthylene	0.00080	0.00057	0.0060	mg/kg	J	8270C-S	09/11/11	1
Benzo(a)anthracene	U	0.00092	0.0060	mg/kg		8270C-S	09/11/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	09/11/11	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	09/11/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	09/11/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	09/11/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	09/11/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	09/11/11	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	09/11/11	1
Fluorene	0.0056	0.00055	0.0060	mg/kg	J	8270C-S	09/11/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	09/11/11	1
Naphthalene	0.013	0.00065	0.0060	mg/kg		8270C-S	09/11/11	1
Phenanthrene	0.0090	0.00074	0.0060	mg/kg		8270C-S	09/11/11	1
Pyrene	0.0023	0.00059	0.0060	mg/kg	J	8270C-S	09/11/11	1
1-Methylnaphthalene	0.016	0.00079	0.0060	mg/kg		8270C-S	09/11/11	1
2-Methylnaphthalene	0.030	0.00059	0.0060	mg/kg		8270C-S	09/11/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	09/11/11	1
Surrogate Recovery								
Nitrobenzene-d5	120.			% Rec.		8270C-S	09/11/11	1
2-Fluorobiphenyl	85.6			% Rec.		8270C-S	09/11/11	1
p-Terphenyl-d14	99.7			% Rec.		8270C-S	09/11/11	1

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REPORT OF ANALYSIS

September 15, 2011

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

ESC Sample # : L535339-04

Date Received : September 10, 2011
Description : 797-03B

Site ID :

Sample ID : 797-03B-5 3 FT

Project # : 900546.0005.010

Collected By : CJB
Collection Date : 09/09/11 08:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	0.71	2.0	mg/kg		3060A/7	09/14/11	1
Chromium, Trivalent	14.	0.17	2.0	mg/kg		Calc.	09/12/11	1
ORP	180			mV		2580	09/14/11	1
pH	8.1			su		9045D	09/13/11	1
Sodium Adsorption Ratio	5.4					Calc.	09/13/11	1
Specific Conductance	570			umhos/cm		9050AMo	09/11/11	1
Mercury	0.040	0.0015	0.020	mg/kg		7471	09/11/11	1
Arsenic	14.	0.32	1.0	mg/kg		6010B	09/12/11	1
Barium	750	0.050	0.25	mg/kg		6010B	09/12/11	1
Cadmium	0.36	0.040	0.25	mg/kg		6010B	09/12/11	1
Chromium	14.	0.085	0.50	mg/kg		6010B	09/12/11	1
Copper	29.	1.0	5.0	mg/kg		6010B	09/12/11	5
Lead	11.	0.45	1.3	mg/kg		6010B	09/12/11	5
Nickel	18.	0.26	1.0	mg/kg		6010B	09/12/11	1
Selenium	5.5	0.32	1.0	mg/kg		6010B	09/12/11	1
Silver	U	0.82	2.5	mg/kg	O	6010B	09/12/11	5
Zinc	56.	0.34	1.5	mg/kg		6010B	09/12/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	09/10/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (FID)	102.			% Rec.		602/801	09/10/11	5
Benzene	U	0.0017	0.0050	mg/kg		8260B	09/11/11	5
Toluene	U	0.0016	0.025	mg/kg		8260B	09/11/11	5
Ethylbenzene	U	0.0019	0.0050	mg/kg		8260B	09/11/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	09/11/11	5
Surrogate Recovery								
Toluene-d8	100.			% Rec.		8260B	09/11/11	5
Dibromofluoromethane	103.			% Rec.		8260B	09/11/11	5
a,a,a-Trifluorotoluene	107.			% Rec.		8260B	09/11/11	5
4-Bromofluorobenzene	106.			% Rec.		8260B	09/11/11	5
TPH (GC/FID) High Fraction	26.	0.77	4.0	mg/kg		3546/DR	09/14/11	1
Surrogate recovery(%) o-Terphenyl	49.6			% Rec.		3546/DR	09/14/11	1

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REPORT OF ANALYSIS

September 15, 2011

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

ESC Sample # : L535339-04

Site ID :

Project # : 900546.0005.010

Date Received : September 10, 2011
Description : 797-03B

Sample ID : 797-03B-5 3 FT

Collected By : CJB
Collection Date : 09/09/11 08:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	09/11/11	1
Acenaphthene	U	0.00071	0.0060	mg/kg		8270C-S	09/11/11	1
Acenaphthylene	U	0.00057	0.0060	mg/kg		8270C-S	09/11/11	1
Benzo(a)anthracene	U	0.00092	0.0060	mg/kg		8270C-S	09/11/11	1
Benzo(a)pyrene	0.00096	0.00062	0.0060	mg/kg	J	8270C-S	09/11/11	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	09/11/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	09/11/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	09/11/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	09/11/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	09/11/11	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	09/11/11	1
Fluorene	U	0.00055	0.0060	mg/kg		8270C-S	09/11/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	09/11/11	1
Naphthalene	0.00085	0.00065	0.0060	mg/kg	J	8270C-S	09/11/11	1
Phenanthrene	U	0.00074	0.0060	mg/kg		8270C-S	09/11/11	1
Pyrene	U	0.00059	0.0060	mg/kg		8270C-S	09/11/11	1
1-Methylnaphthalene	U	0.00079	0.0060	mg/kg		8270C-S	09/11/11	1
2-Methylnaphthalene	0.0012	0.00059	0.0060	mg/kg	J	8270C-S	09/11/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	09/11/11	1
Surrogate Recovery								
Nitrobenzene-d5	83.4			% Rec.		8270C-S	09/11/11	1
2-Fluorobiphenyl	83.3			% Rec.		8270C-S	09/11/11	1
p-Terphenyl-d14	101.			% Rec.		8270C-S	09/11/11	1

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RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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REPORT OF ANALYSIS

September 15, 2011

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

Date Received : September 10, 2011
Description : 797-03B

ESC Sample # : L535339-05

Sample ID : 797-03B-CENTRAL 1 FT

Site ID :

Collected By : CJB
Collection Date : 09/09/11 08:50

Project # : 900546.0005.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	0.71	2.0	mg/kg		3060A/7	09/14/11	1
Chromium, Trivalent	14.	0.17	2.0	mg/kg		Calc.	09/12/11	1
ORP	140			mV		2580	09/14/11	1
pH	9.3			su		9045D	09/13/11	1
Sodium Adsorption Ratio	3.9					Calc.	09/13/11	1
Specific Conductance	1000			umhos/cm		9050AMo	09/11/11	1
Mercury	0.022	0.0015	0.020	mg/kg		7471	09/11/11	1
Arsenic	14.	0.32	1.0	mg/kg		6010B	09/12/11	1
Barium	260	0.050	0.25	mg/kg		6010B	09/12/11	1
Cadmium	0.21	0.040	0.25	mg/kg	J	6010B	09/12/11	1
Chromium	14.	0.085	0.50	mg/kg		6010B	09/12/11	1
Copper	24.	1.0	5.0	mg/kg		6010B	09/12/11	5
Lead	18.	0.45	1.3	mg/kg		6010B	09/12/11	5
Nickel	16.	0.26	1.0	mg/kg		6010B	09/12/11	1
Selenium	5.6	0.32	1.0	mg/kg		6010B	09/12/11	1
Silver	U	0.82	2.5	mg/kg	O	6010B	09/12/11	5
Zinc	70.	0.34	1.5	mg/kg		6010B	09/12/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	09/10/11	5
Surrogate Recovery (70-130)								
a, a, a-Trifluorotoluene (FID)	101.			% Rec.		602/801	09/10/11	5
Benzene	U	0.0017	0.0050	mg/kg		8260B	09/11/11	5
Toluene	0.0016	0.0016	0.025	mg/kg	J	8260B	09/11/11	5
Ethylbenzene	U	0.0019	0.0050	mg/kg		8260B	09/11/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	09/11/11	5
Surrogate Recovery								
Toluene-d8	99.7			% Rec.		8260B	09/11/11	5
Dibromofluoromethane	103.			% Rec.		8260B	09/11/11	5
a, a, a-Trifluorotoluene	106.			% Rec.		8260B	09/11/11	5
4-Bromofluorobenzene	108.			% Rec.		8260B	09/11/11	5
TPH (GC/FID) High Fraction	6.6	0.77	4.0	mg/kg		3546/DR	09/14/11	1
Surrogate recovery(%)								
o-Terphenyl	85.6			% Rec.		3546/DR	09/14/11	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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REPORT OF ANALYSIS

September 15, 2011

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

Date Received : September 10, 2011
Description : 797-03B

Sample ID : 797-03B-CENTRAL 1 FT

Collected By : CJB
Collection Date : 09/09/11 08:50

ESC Sample # : L535339-05

Site ID :

Project # : 900546.0005.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	09/11/11	1
Acenaphthene	0.0011	0.00071	0.0060	mg/kg	J	8270C-S	09/11/11	1
Acenaphthylene	U	0.00057	0.0060	mg/kg		8270C-S	09/11/11	1
Benzo(a)anthracene	U	0.00092	0.0060	mg/kg		8270C-S	09/11/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	09/11/11	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	09/11/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	09/11/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	09/11/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	09/11/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	09/11/11	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	09/11/11	1
Fluorene	0.0020	0.00055	0.0060	mg/kg	J	8270C-S	09/11/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	09/11/11	1
Naphthalene	0.0044	0.00065	0.0060	mg/kg	J	8270C-S	09/11/11	1
Phenanthrene	0.0034	0.00074	0.0060	mg/kg	J	8270C-S	09/11/11	1
Pyrene	U	0.00059	0.0060	mg/kg		8270C-S	09/11/11	1
1-Methylnaphthalene	0.0048	0.00079	0.0060	mg/kg	J	8270C-S	09/11/11	1
2-Methylnaphthalene	0.010	0.00059	0.0060	mg/kg		8270C-S	09/11/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	09/11/11	1
Surrogate Recovery								
Nitrobenzene-d5	91.2			% Rec.		8270C-S	09/11/11	1
2-Fluorobiphenyl	88.8			% Rec.		8270C-S	09/11/11	1
p-Terphenyl-d14	105.			% Rec.		8270C-S	09/11/11	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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L535339-05 (PH) - 9.33@21.0c



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

September 15, 2011

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

ESC Sample # : L535339-06

Date Received : September 10, 2011
Description : 797-03B

Site ID :

Sample ID : 797-03B-SW 2.5 FT

Project # : 900546.0005.010

Collected By : CJB
Collection Date : 09/09/11 08:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	0.71	2.0	mg/kg		3060A/7	09/14/11	1
Chromium, Trivalent	7.6	0.17	2.0	mg/kg		Calc.	09/12/11	1
ORP	110			mV		2580	09/14/11	1
pH	10.			su		9045D	09/13/11	1
Sodium Adsorption Ratio	12.					Calc.	09/13/11	1
Specific Conductance	600			umhos/cm		9050AMo	09/11/11	1
Mercury	0.020	0.0015	0.020	mg/kg	J	7471	09/11/11	1
Arsenic	7.7	0.32	1.0	mg/kg		6010B	09/12/11	1
Barium	210	0.050	0.25	mg/kg		6010B	09/12/11	1
Cadmium	0.31	0.040	0.25	mg/kg		6010B	09/12/11	1
Chromium	7.6	0.085	0.50	mg/kg		6010B	09/12/11	1
Copper	5.0	1.0	5.0	mg/kg	J	6010B	09/12/11	5
Lead	7.1	0.45	1.3	mg/kg		6010B	09/12/11	5
Nickel	9.1	0.26	1.0	mg/kg		6010B	09/12/11	1
Selenium	5.2	0.32	1.0	mg/kg		6010B	09/12/11	1
Silver	U	0.82	2.5	mg/kg	O	6010B	09/12/11	5
Zinc	43.	0.34	1.5	mg/kg		6010B	09/12/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	09/11/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (FID)	102.			% Rec.		602/801	09/11/11	5
Benzene	0.0058	0.0017	0.0050	mg/kg		8260B	09/11/11	5
Toluene	0.0044	0.0016	0.025	mg/kg	J	8260B	09/11/11	5
Ethylbenzene	U	0.0019	0.0050	mg/kg		8260B	09/11/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	09/11/11	5
Surrogate Recovery								
Toluene-d8	100.			% Rec.		8260B	09/11/11	5
Dibromofluoromethane	97.6			% Rec.		8260B	09/11/11	5
a,a,a-Trifluorotoluene	108.			% Rec.		8260B	09/11/11	5
4-Bromofluorobenzene	113.			% Rec.		8260B	09/11/11	5
TPH (GC/FID) High Fraction	32.	0.77	4.0	mg/kg		3546/DR	09/14/11	1
Surrogate recovery(%) o-Terphenyl	83.5			% Rec.		3546/DR	09/14/11	1

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REPORT OF ANALYSIS

September 15, 2011

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

ESC Sample # : L535339-06

Date Received : September 10, 2011
Description : 797-03B

Site ID :

Sample ID : 797-03B-SW 2.5 FT

Project # : 900546.0005.010

Collected By : CJB
Collection Date : 09/09/11 08:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	09/12/11	1
Acenaphthene	0.0093	0.00071	0.0060	mg/kg		8270C-S	09/12/11	1
Acenaphthylene	0.0018	0.00057	0.0060	mg/kg	J	8270C-S	09/12/11	1
Benzo(a)anthracene	0.0014	0.00092	0.0060	mg/kg	J	8270C-S	09/12/11	1
Benzo(a)pyrene	0.0014	0.00062	0.0060	mg/kg	J	8270C-S	09/12/11	1
Benzo(b)fluoranthene	0.0025	0.00082	0.0060	mg/kg	J	8270C-S	09/12/11	1
Benzo(g,h,i)perylene	0.0018	0.0012	0.0060	mg/kg	J	8270C-S	09/12/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	09/12/11	1
Chrysene	0.0076	0.0011	0.0060	mg/kg		8270C-S	09/12/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	09/12/11	1
Fluoranthene	0.0029	0.0010	0.0060	mg/kg	J	8270C-S	09/12/11	1
Fluorene	0.022	0.00055	0.0060	mg/kg		8270C-S	09/12/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	09/12/11	1
Naphthalene	0.072	0.00065	0.0060	mg/kg		8270C-S	09/12/11	1
Phenanthrene	0.040	0.00074	0.0060	mg/kg		8270C-S	09/12/11	1
Pyrene	0.0067	0.00059	0.0060	mg/kg		8270C-S	09/12/11	1
1-Methylnaphthalene	0.075	0.00079	0.0060	mg/kg		8270C-S	09/12/11	1
2-Methylnaphthalene	0.17	0.00059	0.0060	mg/kg		8270C-S	09/12/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	09/12/11	1
Surrogate Recovery								
Nitrobenzene-d5	119.			% Rec.		8270C-S	09/12/11	1
2-Fluorobiphenyl	80.9			% Rec.		8270C-S	09/12/11	1
p-Terphenyl-d14	93.1			% Rec.		8270C-S	09/12/11	1

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REPORT OF ANALYSIS

September 15, 2011

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

Date Received : September 10, 2011
Description : 797-03B

Sample ID : 797-03B-W 6 IN

Collected By : CJB
Collection Date : 09/09/11 08:50

ESC Sample # : L535339-07

Site ID :

Project # : 900546.0005.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	0.71	2.0	mg/kg		3060A/7	09/14/11	1
Chromium, Trivalent	13.	0.17	2.0	mg/kg		Calc.	09/12/11	1
ORP	140			mV		2580	09/14/11	1
pH	8.7			su		9045D	09/13/11	1
Sodium Adsorption Ratio	2.4					Calc.	09/13/11	1
Specific Conductance	160			umhos/cm		9050AMo	09/11/11	1
Mercury	0.0061	0.0015	0.020	mg/kg	J	7471	09/12/11	1
Arsenic	11.	0.32	1.0	mg/kg		6010B	09/12/11	1
Barium	2100	0.050	0.25	mg/kg		6010B	09/12/11	1
Cadmium	0.22	0.040	0.25	mg/kg	J	6010B	09/12/11	1
Chromium	13.	0.085	0.50	mg/kg		6010B	09/12/11	1
Copper	22.	1.0	5.0	mg/kg		6010B	09/12/11	5
Lead	15.	0.45	1.3	mg/kg		6010B	09/12/11	5
Nickel	11.	0.26	1.0	mg/kg		6010B	09/12/11	1
Selenium	3.8	0.32	1.0	mg/kg		6010B	09/12/11	1
Silver	U	0.82	2.5	mg/kg	O	6010B	09/12/11	5
Zinc	56.	0.34	1.5	mg/kg		6010B	09/12/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	09/11/11	5
Surrogate Recovery (70-130)								
a, a, a-Trifluorotoluene (FID)	101.			% Rec.		602/801	09/11/11	5
Benzene	U	0.0017	0.0050	mg/kg		8260B	09/11/11	5
Toluene	U	0.0016	0.025	mg/kg		8260B	09/11/11	5
Ethylbenzene	U	0.0019	0.0050	mg/kg		8260B	09/11/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	09/11/11	5
Surrogate Recovery								
Toluene-d8	100.			% Rec.		8260B	09/11/11	5
Dibromofluoromethane	102.			% Rec.		8260B	09/11/11	5
a, a, a-Trifluorotoluene	107.			% Rec.		8260B	09/11/11	5
4-Bromofluorobenzene	107.			% Rec.		8260B	09/11/11	5
TPH (GC/FID) High Fraction	40.	0.77	4.0	mg/kg		3546/DR	09/14/11	1
Surrogate recovery(%)								
o-Terphenyl	64.3			% Rec.		3546/DR	09/14/11	1

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REPORT OF ANALYSIS

September 15, 2011

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

ESC Sample # : L535339-07

Site ID :

Project # : 900546.0005.010

Date Received : September 10, 2011
Description : 797-03B
Sample ID : 797-03B-W 6 IN
Collected By : CJB
Collection Date : 09/09/11 08:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0038	0.030	mg/kg		8270C-S	09/12/11	5
Acenaphthene	U	0.0035	0.030	mg/kg		8270C-S	09/12/11	5
Acenaphthylene	U	0.0029	0.030	mg/kg		8270C-S	09/12/11	5
Benzo(a)anthracene	U	0.0046	0.030	mg/kg		8270C-S	09/12/11	5
Benzo(a)pyrene	0.0044	0.0031	0.030	mg/kg	J	8270C-S	09/12/11	5
Benzo(b)fluoranthene	U	0.0041	0.030	mg/kg		8270C-S	09/12/11	5
Benzo(g,h,i)perylene	U	0.0062	0.030	mg/kg		8270C-S	09/12/11	5
Benzo(k)fluoranthene	U	0.0067	0.030	mg/kg		8270C-S	09/12/11	5
Chrysene	U	0.0055	0.030	mg/kg		8270C-S	09/12/11	5
Dibenz(a,h)anthracene	U	0.0056	0.030	mg/kg		8270C-S	09/12/11	5
Fluoranthene	U	0.0052	0.030	mg/kg		8270C-S	09/12/11	5
Fluorene	0.0044	0.0028	0.030	mg/kg	J	8270C-S	09/12/11	5
Indeno(1,2,3-cd)pyrene	U	0.0058	0.030	mg/kg		8270C-S	09/12/11	5
Naphthalene	U	0.0032	0.030	mg/kg		8270C-S	09/12/11	5
Phenanthrene	U	0.0037	0.030	mg/kg		8270C-S	09/12/11	5
Pyrene	U	0.0030	0.030	mg/kg		8270C-S	09/12/11	5
1-Methylnaphthalene	U	0.0039	0.030	mg/kg		8270C-S	09/12/11	5
2-Methylnaphthalene	U	0.0029	0.030	mg/kg		8270C-S	09/12/11	5
2-Chloronaphthalene	U	0.0030	0.030	mg/kg		8270C-S	09/12/11	5
Surrogate Recovery								
Nitrobenzene-d5	67.9			% Rec.		8270C-S	09/12/11	5
2-Fluorobiphenyl	84.1			% Rec.		8270C-S	09/12/11	5
p-Terphenyl-d14	98.3			% Rec.		8270C-S	09/12/11	5

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REPORT OF ANALYSIS

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

September 15, 2011

Date Received : September 10, 2011
Description : 797-03B
Sample ID : 797-03B LINER COMPOSITE
Collected By : CJB
Collection Date : 09/09/11 11:10

ESC Sample # : L535339-08

Site ID :

Project : 900546.0005.010

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP ZHE Extraction	-				1311	09/13/11 0727	LJN	1
TCLP Volatiles								
Benzene	BDL	0.050	mg/l	0.50	8260B	09/13/11 2006	JAH	1
Toluene	BDL	0.050	mg/l		8260B	09/13/11 2006	JAH	1
Ethylbenzene	BDL	0.050	mg/l		8260B	09/13/11 2006	JAH	1
Total Xylenes	BDL	0.15	mg/l		8260B	09/13/11 2006	JAH	1
Surrogate Recovery								
Toluene-d8	105.		% Rec.	114.	8260B	09/13/11 2006	JAH	1
Dibromofluoromethane	100.		% Rec.	125.	8260B	09/13/11 2006	JAH	1
a,a,a-Trifluorotoluene	109.		% Rec.	114.	8260B	09/13/11 2006	JAH	1
4-Bromofluorobenzene	106.		% Rec.	128.	8260B	09/13/11 2006	JAH	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Limit - Maximum Contaminant Level as established by the US EPA

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L535339-01	WG554492	SAMP	Silver	R1855296	J
	WG554484	SAMP	Mercury	R1853013	J
	WG554544	SAMP	TPH (GC/FID) Low Fraction	R1854096	J3
	WG554546	SAMP	Benzene	R1853952	J3
	WG554546	SAMP	Toluene	R1853952	J3
	WG554546	SAMP	Ethylbenzene	R1853952	J3
	WG554477	SAMP	Acenaphthene	R1852932	J
	WG554477	SAMP	Acenaphthylene	R1852932	J
	WG554477	SAMP	Benzo(a)anthracene	R1852932	J
	WG554477	SAMP	Benzo(b)fluoranthene	R1852932	J
	WG554477	SAMP	Chrysene	R1852932	J
	WG554477	SAMP	Fluoranthene	R1852932	J
	WG554477	SAMP	Pyrene	R1852932	J
	WG554492	SAMP	Arsenic	R1855296	P1
	WG554492	SAMP	Barium	R1855296	J5
L535339-02	WG554492	SAMP	Chromium	R1855296	J3
	WG554492	SAMP	Copper	R1855296	J3
	WG554492	SAMP	Lead	R1855296	J3
	WG554492	SAMP	Nickel	R1855296	J3
	WG554492	SAMP	Silver	R1855296	O
	WG554586	SAMP	TPH (GC/FID) High Fraction	R1855334	J
	WG554484	SAMP	Mercury	R1853013	J
	WG554477	SAMP	Phenanthrene	R1852932	J
	WG554477	SAMP	1-Methylnaphthalene	R1852932	J
	WG554477	SAMP	2-Methylnaphthalene	R1852932	J
	WG554492	SAMP	Silver	R1855296	O
	WG554477	SAMP	Acenaphthene	R1852932	J
	WG554477	SAMP	Acenaphthylene	R1852932	J
	WG554477	SAMP	Fluorene	R1852932	J
	WG554477	SAMP	Pyrene	R1852932	J
L535339-03	WG554492	SAMP	Silver	R1855296	O
	WG554477	SAMP	Acenaphthene	R1852932	J
	WG554477	SAMP	Acenaphthylene	R1852932	J
	WG554477	SAMP	Fluorene	R1852932	J
	WG554477	SAMP	Pyrene	R1852932	J
L535339-04	WG554492	SAMP	Silver	R1855296	O
	WG554477	SAMP	Benzo(a)pyrene	R1852932	J
	WG554477	SAMP	Naphthalene	R1852932	J
	WG554477	SAMP	2-Methylnaphthalene	R1852932	J
L535339-05	WG554492	SAMP	Cadmium	R1855296	J
	WG554492	SAMP	Silver	R1855296	O
	WG554546	SAMP	Toluene	R1853952	J
	WG554477	SAMP	Acenaphthene	R1852932	J
	WG554477	SAMP	Fluorene	R1852932	J
	WG554477	SAMP	Naphthalene	R1852932	J
	WG554477	SAMP	Phenanthrene	R1852932	J
	WG554477	SAMP	1-Methylnaphthalene	R1852932	J
	WG554492	SAMP	Copper	R1855296	J
L535339-06	WG554492	SAMP	Silver	R1855296	O
	WG554484	SAMP	Mercury	R1853013	J
	WG554546	SAMP	Toluene	R1853952	J
	WG554477	SAMP	Acenaphthylene	R1852932	J
	WG554477	SAMP	Benzo(a)anthracene	R1852932	J
	WG554477	SAMP	Benzo(a)pyrene	R1852932	J
	WG554477	SAMP	Benzo(b)fluoranthene	R1852932	J
	WG554477	SAMP	Benzo(g,h,i)perylene	R1852932	J
	WG554477	SAMP	Fluoranthene	R1852932	J
	WG554492	SAMP	Cadmium	R1855296	J
	WG554492	SAMP	Silver	R1855296	O
	WG554484	SAMP	Mercury	R1853013	J
	WG554477	SAMP	Benzo(a)pyrene	R1852932	J
	WG554477	SAMP	Fluorene	R1852932	J
	WG554492	SAMP	Cadmium	R1855296	J
L535339-07	WG554492	SAMP	Silver	R1855296	O
	WG554484	SAMP	Mercury	R1853013	J
	WG554477	SAMP	Benzo(a)pyrene	R1852932	J
	WG554477	SAMP	Fluorene	R1852932	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Qualifier Report Information

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

Definitions

- Accuracy** - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision** - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate** - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC** - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
09/15/11 at 09:49:07

TSR Signing Reports: 134
R4 - Rush: Three Day

Sample: L535339-01 Account: OXYGJCO Received: 09/10/11 09:00 Due Date: 09/14/11 00:00 RPT Date: 09/15/11 09:48
Sample: L535339-02 Account: OXYGJCO Received: 09/10/11 09:00 Due Date: 09/14/11 00:00 RPT Date: 09/15/11 09:48
Sample: L535339-03 Account: OXYGJCO Received: 09/10/11 09:00 Due Date: 09/14/11 00:00 RPT Date: 09/15/11 09:48
Sample: L535339-04 Account: OXYGJCO Received: 09/10/11 09:00 Due Date: 09/14/11 00:00 RPT Date: 09/15/11 09:48
Sample: L535339-05 Account: OXYGJCO Received: 09/10/11 09:00 Due Date: 09/14/11 00:00 RPT Date: 09/15/11 09:48
Sample: L535339-06 Account: OXYGJCO Received: 09/10/11 09:00 Due Date: 09/14/11 00:00 RPT Date: 09/15/11 09:48
Sample: L535339-07 Account: OXYGJCO Received: 09/10/11 09:00 Due Date: 09/14/11 00:00 RPT Date: 09/15/11 09:48
Sample: L535339-08 Account: OXYGJCO Received: 09/10/11 09:00 Due Date: 09/14/11 00:00 RPT Date: 09/15/11 09:48

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

Alternate billing information:

CO Table 910

Report to:

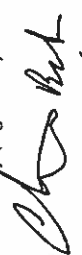
blair-bottins
Email to: blair-bottins@oxy.com

Project Description 797-03B

Phone: (970) 263-3601

FAX:

Collected by: CJB

Collected by (signature): 

Packed on Ice N

City/State

Collected

for archive

Client Project #:

92546-0006-010

Site/Facility ID#:

P.O.#:

[Rush?] (Lab MUST Be Notified)

Same Day 200%
Next Day 100%
Two Day 50%

Date Results Needed:

Email? No YesFAX? X No Yes

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Sample ID

Comp/Grab

Matrix

Depth

No. of Cnts

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Analysis/Container/Preservative

V8260BTEX, GRO

DRO, SV8270PAHSIM

SAR, SPCON, PH

MRCRA8 + Cu, Ni, Zn

CR3, CR6SS

Benzene, TCEP

CoCode OXYGJCO (lab use only)

Template/Prelogin

Shipped Via:

Remarks/Contaminant

Sample # (lab only)

L 55539.01

02

03

04

05

06

07

08

5 pint of liner

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other Solid Liner

Remarks: * 3 Day Turn-Around for All Samples

pH Temp

Flow

4875 557 9229

Samples returned via: ☒ UPS ☐ FedEx ☐ Courier

Temp: 3.5°C

Bottles Received: 22

Date: 7/10/11

Time: 09:00

Condition:

(lab use only)

Received by: (Signature)

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Received for lab by: (Signature)

Received for lab by: (Signature)

Received for lab by: (Signature)

Received for lab by: (Signature)

Received for lab by: (Signature)

Received for lab by: (Signature)

Received for lab by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

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pH Temp

Flow

4875 557 9229

Samples returned via: ☒ UPS ☐ FedEx ☐ Courier

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Date: 7/10/11

Time: 09:00

Condition:

(lab use only)

Condition:

(lab use only)