



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: 66561	4. Contact Name: Daniel I. Padilla	Complete the Attachment Checklist OP OGCC
2. Name of Operator: OXY USA Inc.	Phone: 970.263.3637	
3. Address: 760 Horizon Drive, Suite 101 City: Grand Junction State: CO Zip: 81506	Fax: 970.263.3694	
5. API Number: 05-077-09116	OGCC Facility ID Number: 334198	Survey Plat
6. Well/Facility Name: McDaniel Reserve Pit	7. Well/Facility Number: 14-3	Directional Survey
8. Location (Qtr/Sec, Twp, Rng, Meridian): NENW, Sec. 14, T9S, R94W		Surface Equip Diagram
9. County: Mesa	10. Field Name: Brush Creek	Technical Info Page
11. Federal, Indian or State Lease Number:		Other Lab Data, Map

General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qr is substantive and requires a new permit)	
Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/> FN/FSL <input type="checkbox"/> FEL/FWL
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/> attach directional survey
Bottomhole location 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	
From:	NUMBER
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: 12/3/11 Email: daniel_padilla@oxy.com
Print Name: Daniel I. Padilla Title: Regulatory Advisor

OGCC 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: 66561 | API Number: 05-077-09116 |
| 2. Name of Operator: OXY USA Inc. | OGCC Facility ID # 334198 |
| 3. Well/Facility Name: McDaniel Reserve Pit | Well/Facility Number: 14-3 |
| 4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NENW, Sec. 14, T9S, R94W | |

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 Inc. (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.

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 03/27/2009). Based on the background sample concentrations, Oxy's sundry notice requests to apply different standards to the COGCC Table 910-1 concentration levels.

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 Inc.

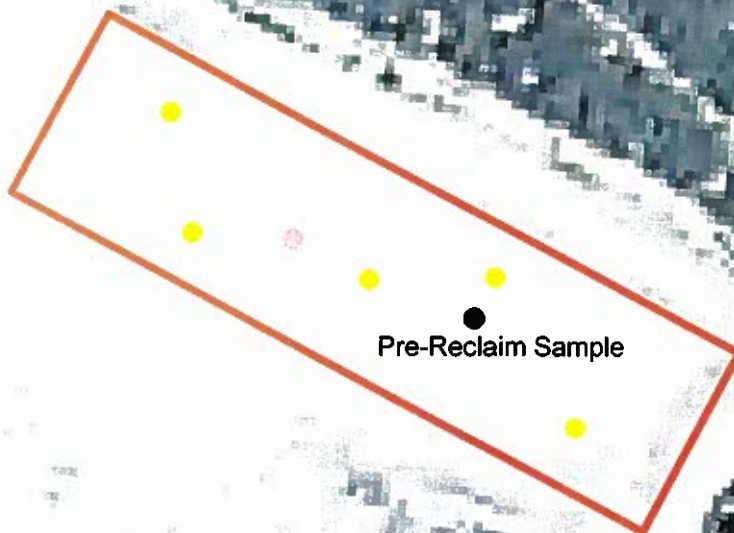
760 Horizon Drive, Suite 101
Grand Junction, CO 81506

McDaniel 14-3

Sampling Map

Mesa County, Colorado

0 0.005 0.01 0.015 0.02 Miles



Pre-Reclaim Sample

Pit



Post Reclaim Sample



Cap Sample



Back Ground Samples



Pit Reclaims - Collbran

Pad #:	McDaniel 14-3
Sample Date:	3/27/2009
Clearance Achieved Date:	4/6/2009

Sample Identifications (mg/kg)

	Lab Report #		L394974		L394974		L394974		L548467	
	Date Sampled	3/27/2009	Post Reclaim	Pre-Reclaim (pit)	Background	Cap Sample				
Organics in Soil	MCL (mg/kg)									
TPH (GRO and DRO)	500	7	0.96	<0.50	U					
Benzene	0.17	<0.0025	0.040	<0.0025	U					
Toluene	85	<0.025	0.038	<0.025	U					
Ethylbenzene	100	<0.0025	0.0026	<0.0025	U					
Xylenes	175	0.0080	0.025	0.0080	U					
Organics in Soil (PAH's)										
Acenaphthene	1000	<0.033	<0.033	<0.033	0.0027					
Anthracene	1000	<0.033	<0.033	<0.033	0.0025					
Benzo(A)anthracene	0.22	<0.033	<0.033	<0.033	U					
Benzo(B)fluoranthene	0.22	<0.033	<0.033	<0.033	U					
Benzo(K)fluoranthene	2.2	<0.033	<0.033	<0.033	U					
Benzo(A)pyrene	0.022	<0.033	<0.033	<0.033	U					
Chrysene	22	<0.033	<0.033	<0.033	0.0044					
Dibenzo(A,H)anthracene	0.022	<0.033	<0.033	<0.033	U					
Fluoranthene	1000	<0.033	<0.033	<0.033	0.0017					
Indeno(1,2,3,C,D)pyrene	0.22	<0.033	<0.033	<0.033	0.0082					
Napthalene	23	<0.033	0.060	<0.033	0.042					
Pyrene	1000	<0.033	<0.033	<0.033	0.0025					
Inorganics in Soil										
EC	<4 mmhos/cm or 2X background	0.870	1.10	0.510	0.46					
SAR	<12	10.0	31.0	4.7	6.4					
pH	6-9	9.5	11.0	9.1	8.4					
Metals in Soils										
Arsenic	0.39	<1.0	1.4	<1.0	U					
Barium	15000	1900	4700	180	1400					
Boron (Hot Water Soluble)	2 (mg/L)	NA	NA	NA	NA					
Cadmium	70	0.80	0.58	0.86	U					
Chromium III	12000	14.0	11.0	15.0	16					
Chromium VI	23	<2.0	<2.0	<2.0	U					
Copper	3100	19.0	22.0	17.0	22					
Lead	400	9	7.7	9.5	8					
Mercury	23	<0.020	<0.020	<0.020	0.01					
Nickel	1600	14.0	10.0	14.0	14					
Selenium	390	<1.0	<1.0	<1.0	1.5					
Silver	390	<0.50	<0.50	<0.50	U					
Zinc	23000	44.0	33.0	46.0	59					

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

Report Summary

Thursday December 01, 2011

Report Number: L548467

Samples Received: 11/23/11

Client Project: 900546.0005.010

Description: McDaniel 14-3

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.

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YOUR LAB OF CHOICE

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Est. 1970

REPORT OF ANALYSIS

December 01, 2011

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

ESC Sample # : L548467-01

Date Received : November 23, 2011
Description : McDaniel 14-3

Site ID :

Sample ID : MCDANIEL 14-3-CAP SAMPLE 6 IN

Project # : 900546.0005.010

Collected By : LG
Collection Date : 11/22/11 15:30

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.	11/27/11	1
ORP	120			mV	T8	2580	11/30/11	1
pH	8.4			su		9045D	11/28/11	1
Sodium Adsorption Ratio	6.4					Calc.	11/30/11	1
Specific Conductance	460			umhos/cm		9050AMo	11/30/11	1
Mercury	0.010	0.0015	0.020	mg/kg	J	7471	11/28/11	1
Arsenic	U	0.32	1.0	mg/kg		6010B	11/27/11	1
Barium	1400	0.050	0.25	mg/kg		6010B	11/27/11	1
Cadmium	U	0.040	0.25	mg/kg		6010B	11/27/11	1
Chromium	16.	0.085	0.50	mg/kg		6010B	11/27/11	1
Copper	22.	0.21	1.0	mg/kg		6010B	11/27/11	1
Lead	8.0	0.090	0.25	mg/kg		6010B	11/27/11	1
Nickel	14.	0.26	1.0	mg/kg		6010B	11/27/11	1
Selenium	1.5	0.32	1.0	mg/kg		6010B	11/27/11	1
Silver	U	0.16	0.50	mg/kg		6010B	11/27/11	1
Zinc	59.	0.34	1.5	mg/kg		6010B	11/27/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	11/24/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (FID)	97.0			% Rec.		602/801	11/24/11	5
Benzene	U	0.0017	0.0050	mg/kg		8260B	11/24/11	5
Toluene	U	0.0016	0.025	mg/kg		8260B	11/24/11	5
Ethylbenzene	U	0.0019	0.0050	mg/kg		8260B	11/24/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	11/24/11	5
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	11/24/11	5
Dibromofluoromethane	103.			% Rec.		8260B	11/24/11	5
a,a,a-Trifluorotoluene	108.			% Rec.		8260B	11/24/11	5
4-Bromofluorobenzene	102.			% Rec.		8260B	11/24/11	5
TPH (GC/FID) High Fraction	U	0.77	4.0	mg/kg		3546/DR	11/29/11	1
Surrogate recovery(%) o-Terphenyl	71.5			% Rec.		3546/DR	11/29/11	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: 12/01/11 14:01 Printed: 12/01/11 14:17

L548467-01 (PH) - 8.35@18.5c

REPORT OF ANALYSIS

December 01, 2011

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

ESC Sample # : L548467-01

Date Received : November 23, 2011
Description : McDaniel 14-3

Site ID :

Sample ID : MCDANIEL 14-3-CAP SAMPLE 6 IN

Project # : 900546.0005.010

Collected By : LG
Collection Date : 11/22/11 15:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.0025	0.00076	0.0060	mg/kg	J	8270C-S	11/28/11	1
Acenaphthene	0.0027	0.00071	0.0060	mg/kg	J	8270C-S	11/28/11	1
Acenaphthylene	U	0.00057	0.0060	mg/kg		8270C-S	11/28/11	1
Benzo(a)anthracene	U	0.00092	0.0060	mg/kg		8270C-S	11/28/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	11/28/11	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	11/28/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	11/28/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	11/28/11	1
Chrysene	0.0044	0.0011	0.0060	mg/kg	J	8270C-S	11/28/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	11/28/11	1
Fluoranthene	0.0017	0.0010	0.0060	mg/kg	J	8270C-S	11/28/11	1
Fluorene	0.0082	0.00055	0.0060	mg/kg		8270C-S	11/28/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	11/28/11	1
Naphthalene	0.042	0.00065	0.0060	mg/kg		8270C-S	11/28/11	1
Phenanthrene	0.022	0.00074	0.0060	mg/kg		8270C-S	11/28/11	1
Pyrene	0.0025	0.00059	0.0060	mg/kg	J	8270C-S	11/28/11	1
1-Methylnaphthalene	0.045	0.00079	0.0060	mg/kg		8270C-S	11/28/11	1
2-Methylnaphthalene	0.14	0.00059	0.0060	mg/kg		8270C-S	11/28/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	11/28/11	1
Surrogate Recovery								
Nitrobenzene-d5	86.1			% Rec.		8270C-S	11/28/11	1
2-Fluorobiphenyl	77.8			% Rec.		8270C-S	11/28/11	1
p-Terphenyl-d14	88.3			% Rec.		8270C-S	11/28/11	1

U = ND (Not Detected)

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RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Reported: 12/01/11 14:01 Printed: 12/01/11 14:17
L548467-01 (PH) - 8.35@18.5c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L548467-01	WG567255	SAMP	Mercury	R1948074	J
	WG567393	SAMP	Anthracene	R1948172	J
	WG567393	SAMP	Acenaphthene	R1948172	J
	WG567393	SAMP	Chrysene	R1948172	J
	WG567393	SAMP	Fluoranthene	R1948172	J
	WG567393	SAMP	Pyrene	R1948172	J
	WG567573	SAMP	ORP	R1950672	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
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.



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Est. 1970

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

Grand Junction, CO 81506

Report Summary

Wednesday April 01, 2009

Report Number: L394974

Samples Received: 03/28/09

Client Project:

Description: Pit Reclaims-Coll Bran

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, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

3 Samples Reported: 04/01/09 15:26 Printed: 04/01/09 15:26

Page 1 of 18



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REPORT OF ANALYSIS

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

April 01, 2009

Date Received : March 28, 2009
Description : Pit Reclaims-Coll Bran
Sample ID : MCDANIEL 14-3-BG 0-6FT
Collected By : Brett Kennedy
Collection Date : 03/27/09 15:00

ESC Sample # : L394974-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	04/01/09	1
ORP	180		mV	2580	03/30/09	1
pH	9.1		su	9045D	03/31/09	1
Sodium Adsorption Ratio	4.7			Calc.	04/01/09	1
Specific Conductance	510		umhos/cm	9050AMod	03/30/09	1
Mercury	BDL	0.020	mg/kg	7471	03/30/09	1
Arsenic	BDL	1.0	mg/kg	6010B	03/31/09	1
Barium	180	0.25	mg/kg	6010B	03/31/09	1
Cadmium	0.86	0.25	mg/kg	6010B	03/31/09	1
Chromium	15.	0.50	mg/kg	6010B	03/31/09	1
Copper	17.	1.0	mg/kg	6010B	03/31/09	1
Lead	9.5	0.25	mg/kg	6010B	03/31/09	1
Nickel	14.	1.0	mg/kg	6010B	03/31/09	1
Selenium	BDL	1.0	mg/kg	6010B	03/31/09	1
Silver	BDL	0.50	mg/kg	6010B	03/31/09	1
Zinc	46.	1.5	mg/kg	6010B	03/31/09	1
Benzene	BDL	0.0025	mg/kg	8021/8015	03/31/09	5
Toluene	BDL	0.025	mg/kg	8021/8015	03/31/09	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	03/31/09	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	03/31/09	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	03/31/09	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	100.		% Rec.	8021/8015	03/31/09	5
a,a,a-Trifluorotoluene (PID)	107.		% Rec.	8021/8015	03/31/09	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	04/01/09	1
Surrogate recovery(%)						
o-Terphenyl	73.8		% Rec.	3546/DRO	04/01/09	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.033	mg/kg	8270C	03/30/09	1
Acenaphthene	BDL	0.033	mg/kg	8270C	03/30/09	1
Acenaphthylene	BDL	0.033	mg/kg	8270C	03/30/09	1
Benzo(a)anthracene	BDL	0.033	mg/kg	8270C	03/30/09	1
Benzo(a)pyrene	BDL	0.033	mg/kg	8270C	03/30/09	1
Benzo(b)fluoranthene	BDL	0.033	mg/kg	8270C	03/30/09	1
Benzo(g,h,i)perylene	BDL	0.033	mg/kg	8270C	03/30/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)
L394974-01 (PH) - 9.1@19.4c



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Est. 1970

REPORT OF ANALYSIS

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

April 01, 2009

Date Received : March 28, 2009
Description : Pit Reclaims-Coll Bran
Sample ID : MCDANIEL 14-3-BG 0-6FT
Collected By : Brett Kennedy
Collection Date : 03/27/09 15:00

ESC Sample # : L394974-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(k)fluoranthene	BDL	0.033	mg/kg	8270C	03/30/09	1
Chrysene	BDL	0.033	mg/kg	8270C	03/30/09	1
Dibenz(a,h)anthracene	BDL	0.033	mg/kg	8270C	03/30/09	1
Fluoranthene	BDL	0.033	mg/kg	8270C	03/30/09	1
Fluorene	BDL	0.033	mg/kg	8270C	03/30/09	1
Indeno(1,2,3-cd)pyrene	BDL	0.033	mg/kg	8270C	03/30/09	1
Naphthalene	BDL	0.033	mg/kg	8270C	03/30/09	1
Phenanthrene	BDL	0.033	mg/kg	8270C	03/30/09	1
Pyrene	BDL	0.033	mg/kg	8270C	03/30/09	1
Surrogate Recovery						
Nitrobenzene-d5	75.1		% Rec.	8270C	03/30/09	1
2-Fluorobiphenyl	66.8		% Rec.	8270C	03/30/09	1
p-Terphenyl-d14	67.1		% Rec.	8270C	03/30/09	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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L394974-01 (PH) - 9.1@19.4c



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REPORT OF ANALYSIS

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

April 01, 2009

Date Received : March 28, 2009
Description : Pit Reclaims-Coll Bran
Sample ID : MCDANIEL 14-3-PRE-REC 0-6FT
Collected By : Brett Kennedy
Collection Date : 03/27/09 15:15

ESC Sample # : L394974-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	04/01/09	1
ORP	120		mV	2580	03/30/09	1
pH	11.		su	9045D	03/31/09	1
Sodium Adsorption Ratio	31.			Calc.	04/01/09	1
Specific Conductance	1100		umhos/cm	9050AMod	03/30/09	1
Mercury	BDL	0.020	mg/kg	7471	03/30/09	1
Arsenic	1.4	1.0	mg/kg	6010B	03/31/09	1
Barium	4700	1.2	mg/kg	6010B	03/31/09	5
Cadmium	0.58	0.25	mg/kg	6010B	03/31/09	1
Chromium	11.	0.50	mg/kg	6010B	03/31/09	1
Copper	22.	1.0	mg/kg	6010B	03/31/09	1
Lead	7.7	0.25	mg/kg	6010B	03/31/09	1
Nickel	10.	1.0	mg/kg	6010B	03/31/09	1
Selenium	BDL	1.0	mg/kg	6010B	03/31/09	1
Silver	BDL	0.50	mg/kg	6010B	03/31/09	1
Zinc	33.	1.5	mg/kg	6010B	03/31/09	1
Benzene	0.040	0.0025	mg/kg	8021/8015	03/31/09	5
Toluene	0.038	0.025	mg/kg	8021/8015	03/31/09	5
Ethylbenzene	0.0026	0.0025	mg/kg	8021/8015	03/31/09	5
Total Xylene	0.025	0.0075	mg/kg	8021/8015	03/31/09	5
TPH (GC/FID) Low Fraction	0.96	0.50	mg/kg	GRO	03/31/09	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	99.1		% Rec.	8021/8015	03/31/09	5
a,a,a-Trifluorotoluene (PID)	106.		% Rec.	8021/8015	03/31/09	5
TPH (GC/FID) High Fraction	9.2	4.0	mg/kg	3546/DRO	03/30/09	1
Surrogate recovery(%)						
o-Terphenyl	71.1		% Rec.	3546/DRO	03/30/09	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.033	mg/kg	8270C	03/30/09	1
Acenaphthene	BDL	0.033	mg/kg	8270C	03/30/09	1
Acenaphthylene	BDL	0.033	mg/kg	8270C	03/30/09	1
Benzo(a)anthracene	BDL	0.033	mg/kg	8270C	03/30/09	1
Benzo(a)pyrene	BDL	0.033	mg/kg	8270C	03/30/09	1
Benzo(b)fluoranthene	BDL	0.033	mg/kg	8270C	03/30/09	1
Benzo(g,h,i)perylene	BDL	0.033	mg/kg	8270C	03/30/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)
L394974-02 (PH) - 11.1@19.6c



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REPORT OF ANALYSIS

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

April 01, 2009

Date Received : March 28, 2009
Description : Pit Reclaims-Coll Bran
Sample ID : MCDANIEL 14-3-PRE-REC 0-6FT
Collected By : Brett Kennedy
Collection Date : 03/27/09 15:15

ESC Sample # : L394974-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(k)fluoranthene	BDL	0.033	mg/kg	8270C	03/30/09	1
Chrysene	BDL	0.033	mg/kg	8270C	03/30/09	1
Dibenz(a,h)anthracene	BDL	0.033	mg/kg	8270C	03/30/09	1
Fluoranthene	BDL	0.033	mg/kg	8270C	03/30/09	1
Fluorene	BDL	0.033	mg/kg	8270C	03/30/09	1
Indeno(1,2,3-cd)pyrene	BDL	0.033	mg/kg	8270C	03/30/09	1
Naphthalene	0.060	0.033	mg/kg	8270C	03/30/09	1
Phenanthrene	BDL	0.033	mg/kg	8270C	03/30/09	1
Pyrene	BDL	0.033	mg/kg	8270C	03/30/09	1
Surrogate Recovery						
Nitrobenzene-d5	66.4		% Rec.	8270C	03/30/09	1
2-Fluorobiphenyl	70.7		% Rec.	8270C	03/30/09	1
p-Terphenyl-d14	66.5		% Rec.	8270C	03/30/09	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

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

April 01, 2009

Date Received : March 28, 2009
Description : Pit Reclaims-Coll Bran
Sample ID : MCDANIEL 14-3-POST-REC 0-6FT
Collected By : Brett Kennedy
Collection Date : 03/27/09 15:30

ESC Sample # : L394974-03

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	04/01/09	1
ORP	150		mV	2580	03/30/09	1
pH	9.5		su	9045D	03/31/09	1
Sodium Adsorption Ratio	10.			Calc.	04/01/09	1
Specific Conductance	870		umhos/cm	9050AMod	03/30/09	1
Mercury	BDL	0.020	mg/kg	7471	03/30/09	1
Arsenic	BDL	1.0	mg/kg	6010B	03/31/09	1
Barium	1900	0.25	mg/kg	6010B	03/31/09	1
Cadmium	0.80	0.25	mg/kg	6010B	03/31/09	1
Chromium	14.	0.50	mg/kg	6010B	03/31/09	1
Copper	19.	1.0	mg/kg	6010B	03/31/09	1
Lead	9.0	0.25	mg/kg	6010B	03/31/09	1
Nickel	14.	1.0	mg/kg	6010B	03/31/09	1
Selenium	BDL	1.0	mg/kg	6010B	03/31/09	1
Silver	BDL	0.50	mg/kg	6010B	03/31/09	1
Zinc	44.	1.5	mg/kg	6010B	03/31/09	1
Benzene	BDL	0.0025	mg/kg	8021/8015	03/31/09	5
Toluene	BDL	0.025	mg/kg	8021/8015	03/31/09	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	03/31/09	5
Total Xylene	0.0080	0.0075	mg/kg	8021/8015	03/31/09	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	03/31/09	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	100.		% Rec.	8021/8015	03/31/09	5
a,a,a-Trifluorotoluene (PID)	107.		% Rec.	8021/8015	03/31/09	5
TPH (GC/FID) High Fraction	7.0	4.0	mg/kg	3546/DRO	03/30/09	1
Surrogate recovery(%)						
o-Terphenyl	71.0		% Rec.	3546/DRO	03/30/09	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.033	mg/kg	8270C	03/30/09	1
Acenaphthene	BDL	0.033	mg/kg	8270C	03/30/09	1
Acenaphthylene	BDL	0.033	mg/kg	8270C	03/30/09	1
Benzo(a)anthracene	BDL	0.033	mg/kg	8270C	03/30/09	1
Benzo(a)pyrene	BDL	0.033	mg/kg	8270C	03/30/09	1
Benzo(b)fluoranthene	BDL	0.033	mg/kg	8270C	03/30/09	1
Benzo(g,h,i)perylene	BDL	0.033	mg/kg	8270C	03/30/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)
L394974-03 (PH) - 9.5@18.5c



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REPORT OF ANALYSIS

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

April 01, 2009

Date Received : March 28, 2009
Description : Pit Reclaims-Coll Bran
Sample ID : MCDANIEL 14-3-POST-REC 0-6FT

ESC Sample # : L394974-03

Site ID :

Collected By : Brett Kennedy
Collection Date : 03/27/09 15:30

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(k)fluoranthene	BDL	0.033	mg/kg	8270C	03/30/09	1
Chrysene	BDL	0.033	mg/kg	8270C	03/30/09	1
Dibenz(a,h)anthracene	BDL	0.033	mg/kg	8270C	03/30/09	1
Fluoranthene	BDL	0.033	mg/kg	8270C	03/30/09	1
Fluorene	BDL	0.033	mg/kg	8270C	03/30/09	1
Indeno(1,2,3-cd)pyrene	BDL	0.033	mg/kg	8270C	03/30/09	1
Naphthalene	BDL	0.033	mg/kg	8270C	03/30/09	1
Phenanthrene	BDL	0.033	mg/kg	8270C	03/30/09	1
Pyrene	BDL	0.033	mg/kg	8270C	03/30/09	1
Surrogate Recovery						
Nitrobenzene-d5	80.3		% Rec.	8270C	03/30/09	1
2-Fluorobiphenyl	72.4		% Rec.	8270C	03/30/09	1
p-Terphenyl-d14	72.9		% Rec.	8270C	03/30/09	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L394974-03 (PH) - 9.5@18.5c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L394974-01	WG414272	SAMP	Arsenic	R689031	J6
	WG414272	SAMP	Barium	R689031	J6B
	WG414272	SAMP	Cadmium	R689031	J6
	WG414272	SAMP	Chromium	R689031	J6
	WG414272	SAMP	Selenium	R689031	P1
	WG414272	SAMP	Zinc	R689031	J6
L394974-02	WG414272	SAMP	Barium	R689031	B
L394974-03	WG414272	SAMP	Barium	R689031	B

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.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
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.

[illegible]