

FORM
4
Rev 12/05

State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109

DOCUMENT
#2224459

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.)

RECEIVED
5/9/2012

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 - 09681	OGCC Facility ID Number 334445(Facility ID)	Survey Plat
6. Well/Facility Name: Griffith 11-2 Reserve Pit	7. Well/Facility Number 11-2	Directional Survey
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): NWNE, Sec 11, T9S, R94W, 6th PM		Surface Eqpm't 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/qtr is substantive and requires a new permit)			
Change of Surface Footage from Exterior Section Lines:	FNL/FSL	FEL/FWL	
Change of Surface Footage to Exterior Section Lines:			
Change of Bottomhole Footage from Exterior Section Lines:			
Change of Bottomhole Footage to Exterior Section Lines:			attach directional survey
Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer			
Latitude	Distance to nearest property line	Distance to nearest bldg, public rd, utility or RR	
Longitude	Distance to nearest lease line	Is location in a High Density Area (rule 603b)? Yes/No	
Ground Elevation	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: 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 Method used Cementing tool setting/perf depth Cement volume Cement top Cement bottom Date *submit cbl and cement job summaries			
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004. Final reclamation will commence on approximately Final reclamation is completed and site is ready for inspection.			

Technical Engineering/Environmental Notice

<input type="checkbox"/> Notice of Intent Approximate Start Date:	<input type="checkbox"/> Report of Work Done 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: 5/9/12 Email: daniel_padilla@oxy.com
Print Name: Daniel I. Padilla Title: Regulatory Advisor

COGCC Approved: Title: Date:

CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number:	66561	API Number:	05-077-09681
2. Name of Operator:	OXY USA Inc.	OGCC Facility ID #	334445
3. Well/Facility Name:	Griffith 11-2 Reserve Pit	Well/Facility Number:	11-2
4. Location (QtrQtr, Sec, Twp, Rng, Meridian):	NWNE, Sec 11, T9S, R94W, 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 Inc. (Oxy) has completed reclamation of the above-mentioned reserve pit. Oxy identified post reclamation levels for Arsenic (As) to be above table 910-1, but below undisturbed background levels. Oxy requests consideration as an alternative to the default value for As in Table 910-1, based on our demonstration of naturally occurring concentrations of As in undisturbed samples taken from native material collected from nearby areas, as per foot note 1 of COGCC Table 910-1. Please refer to attached table, analytical data, and sample location map.

The sampling method Oxy employed was to take a representative random grab sample for each background sample location, and post reclaim sample. The analytical concentrations table identifies the COGCC Table 910-1 concentration levels, Oxy's undisturbed background concentrations (08/25/2010,12/08/2011,04/19/2012), and Oxy's post reclamation concentrations (post reclaim 08/25/2010). The post reclaim concentrations of As are below those found in background samples.

To address elevated concentrations of SAR, Oxy will cap the pit below at least three feet of native material to ensure a sufficient agronomic zone. Oxy backfilled and graded the pit to be level with the working surface of the pad. Therefore final pit capping and pad reclamation will occur at the end of the life of the pad.

Pit Reclams - Colbran	
Pad #:	Griffin 11-2
Sample Date:	8/25/2010
Clearance Achieved Date:	

Organics in Soil	Sample Type	Sample Identifications (mg/kg)														
		Post Remed	Background	Background	Background	Background	Background	Background	Background	Background	Background	Background	Background	Background	Background	Background
TPH (BRO and BRO)	Lab Backup	L4718/17	L4718/17	L4718/17	L4718/17	L4718/17	L4718/17	L4718/17	L4718/17	L4718/17	L4718/17	L4718/17	L4718/17	L4718/17	L4718/17	L4718/17
	Onie Sample	B25/2010	B25/2010	B25/2010	B25/2010	B25/2010	B25/2010	B25/2010	B25/2010	B25/2010	B25/2010	B25/2010	B25/2010	B25/2010	B25/2010	B25/2010
	Sample Name	Post Remed	Background - N	Background - E	Background - S	Background - W	Griffin 11-2 BG - CS	Griffin 11-2 BG-SE	Median 11/1/17 1st	Median 11/1/17 1st	Median 11/1/17 1st	Median 11/1/17 1st	Median 11/1/17 1st	Median 11/1/17 1st	Median 11/1/17 1st	Median 11/1/17 1st
	MC1 (mg/kg)	500	-	-	-	-	U	0.95	-	-	-	-	-	-	-	-
	Benzene	0.17	-	-	-	-	U	U	-	-	-	-	-	-	-	-
Elutriates	Toluene	85	-	-	-	-	U	U	-	-	-	-	-	-	-	-
	Ethylbenzene	100	-	-	-	-	U	U	-	-	-	-	-	-	-	-
	Xylenes	175	-	-	-	-	U	U	-	-	-	-	-	-	-	-
Organics in Soil (PAH's)																
Organics in Soil (PAH's)	Acenaphthene	1009	-	-	-	-	U	U	-	-	-	-	-	-	-	-
	Acenaphthylene	1009	-	-	-	-	U	U	-	-	-	-	-	-	-	-
	Benzo(a)fluoranthene	0.22	-	-	-	-	U	U	-	-	-	-	-	-	-	-
	Benzo(b)fluoranthene	0.22	-	-	-	-	U	U	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	2.2	-	-	-	-	U	U	-	-	-	-	-	-	-	-
	Benzo(a)pyrene	0.0074	-	-	-	-	U	U	-	-	-	-	-	-	-	-
	Chrysene	22	-	-	-	-	U	U	-	-	-	-	-	-	-	-
	Dibenz(a,h)anthracene	0.022	-	-	-	-	U	U	-	-	-	-	-	-	-	-
	Fluoranthene	1000	-	-	-	-	U	U	-	-	-	-	-	-	-	-
	Fluorene	1000	-	-	-	-	U	U	-	-	-	-	-	-	-	-
Organics in Soil (PAH's)	Indeno(1,2,3-cd)pyrene	0.013	-	-	-	-	U	U	-	-	-	-	-	-	-	-
	Pyrene	0.22	-	-	-	-	U	U	-	-	-	-	-	-	-	-
	Benzo(a)pyrene	23	-	-	-	-	U	U	-	-	-	-	-	-	-	-
Organics in Soil (PAH's)																
EC	EC	1.60	0.790	0.790	0.790	0.790	0.790	0.790	0.790	0.790	0.790	0.790	0.790	0.790	0.790	0.790
	SAE	<12	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
pH	pH	8.8	7.0	7.2	6.7	6.3	8.9	6.5	7.9	7.8	7.9	7.9	7.8	7.9	7.8	7.9
	Moist in Soil	6-8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Organics in Soil (PAH's)	Arsenic	0.39	8.5	3.9	6.4	4.9	5.0	1.7	4.2	9.5	8.6	U	7.1	5.0	1.4	NA
	Arsenic (2)	0.39	NA	NA	NA	NA	NA	NA	NA	8.0	8.7	U	4.3	6.1	1.7	NA
	Barium	15000	5200	-	-	-	-	140	150	-	-	-	-	-	-	-
	Barium (Not Applicable)	2 (mg/L)	-	-	-	-	-	NA	NA	-	-	-	-	-	-	-
	Cadmium	78	0.16	-	-	-	-	0.59	0.26	NA	NA	-	-	-	-	-
	Chromium	18.0	-	-	-	-	-	12.0	13.0	-	-	-	-	-	-	-
	Chromium VI	12000	-	-	-	-	-	U	U	-	-	-	-	-	-	-
	Copper	160	-	-	-	-	-	9	12	1.7	7.8	-	-	-	-	-
	Lead	480	14.0	-	-	-	-	8.2	8.2	-	-	-	-	-	-	-
	Mercury	23	0.027	-	-	-	-	0.016	0.066	9.7	-	-	-	-	-	-
Organics in Soil (PAH's)	Nickel	1000	12.0	-	-	-	-	9.4	9.4	-	-	-	-	-	-	-
	Selenium	380	<16	-	-	-	-	U	0.62	-	-	-	-	-	-	-
	Silver	380	<0.16	-	-	-	-	U	1.1	-	-	-	-	-	-	-
Organics in Soil (PAH's)	Zinc	23000	47.0	-	-	-	-	43.0	40.0	-	-	-	-	-	-	-



OXY USA Inc.
760 Horizon Drive, Suite 101
Grand Junction, CO 81506

Griffith 11- 2 Closure Sampling Map

Mesa County, Colorado

0 0.01 0.02 0.03 0.04 Miles



Pit Area



Pit Sample



Background Sample

BG-CS-N

Sample Identification



OXY USA Inc.
760 Horizon Drive, Suite 101
Grand Junction, CO 81506

**Griffith 11- 2 Closure Sampling Map
With McDaniel Close-up**

Mesa County, Colorado

0 0.01 0.02 0.03 0.04 Miles

BG - PT 138 ●

● BG - PT 139

BG - PT 140 ●

● BG - PT 141

BG - PT 142 ●

● BG - PT 143



Pit Area



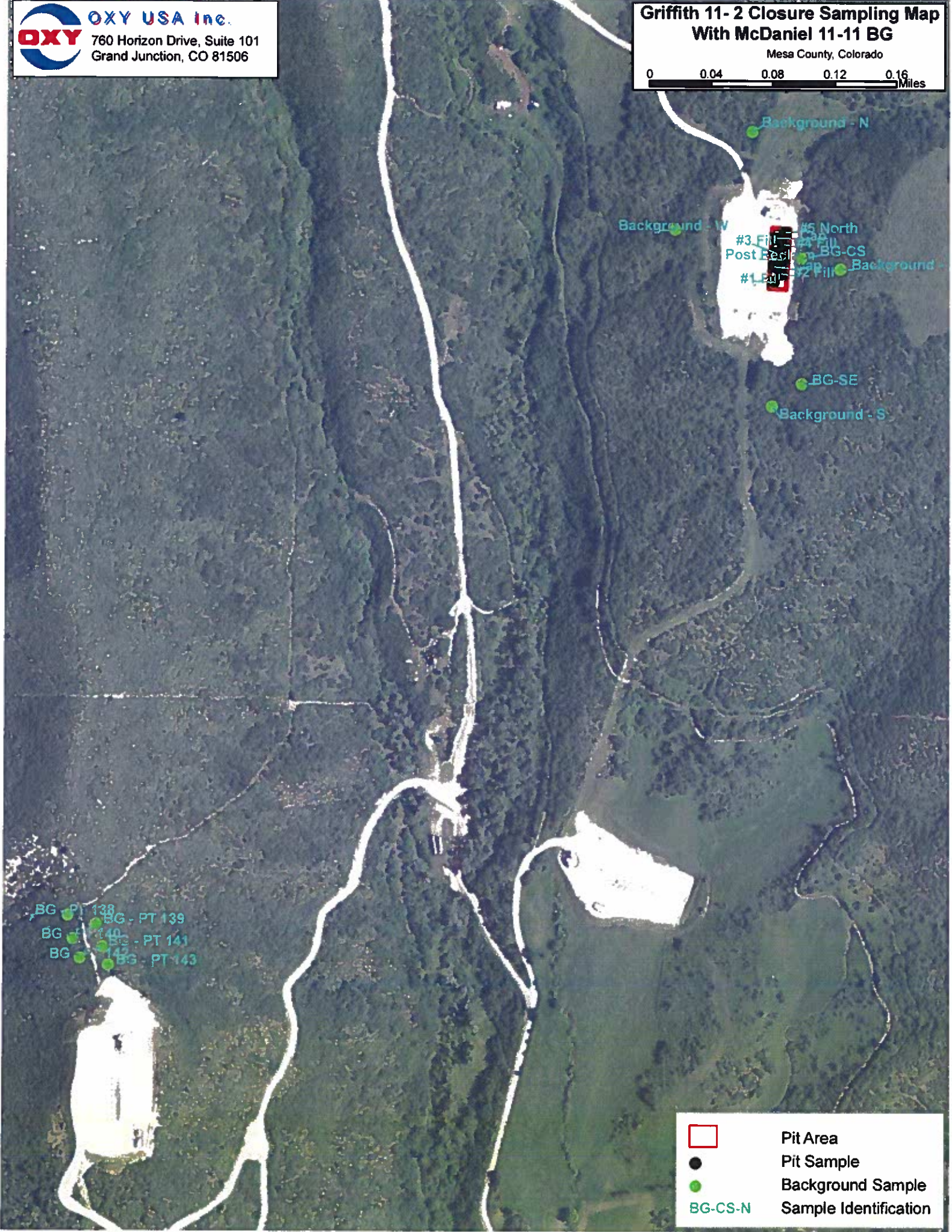
Pit Sample



Background Sample

BG-CS-N

Sample Identification





12065 Lebanon Rd.
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Tax I.D. 62-0814289

Est. 1970

Brett Kennedy
Oxy USA WTP LP - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

Report Summary

Thursday September 02, 2010

Report Number: L475917

Samples Received: 08/27/10

Client Project:

Description: Pit Reclaims

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

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

Brett Kennedy
Oxy USA WTP LP - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

September 02, 2010

Date Received : August 27, 2010
Description : Pit Reclaims - Collbran
Sample ID : GRIFFITH 11-2 POST REC 6-8 IN
Collected By : Brett Kennedy
Collection Date : 08/25/10 10:15

ESC Sample # : L475917-01

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	0.31	2.0	mg/kg		3060A/7	08/28/10	1
ORP	42.			mV		2580	08/31/10	1
pH	8.8			su		9045D	09/01/10	1
Sodium Adsorption Ratio	25.					Calc.	08/29/10	1
Specific Conductance	1600			umhos/cm		9050AMo	08/28/10	1
Arsenic	8.6	1.6	5.0	mg/kg		6010B	08/31/10	5
Barium	5200	0.050	0.25	mg/kg		6010B	08/30/10	1
Cadmium	0.16	0.040	0.25	mg/kg	J	6010B	08/30/10	1
Calcium	U	5.4	25.	mg/kg		6010B	08/30/10	1
Chromium	18.	0.085	0.50	mg/kg		6010B	08/30/10	1
Copper	16.	0.21	1.0	mg/kg		6010B	08/30/10	1
Lead	14.	0.45	1.3	mg/kg		6010B	08/31/10	5
Nickel	12.	0.26	1.0	mg/kg		6010B	08/30/10	1
Selenium	U	1.6	5.0	mg/kg	O	6010B	08/31/10	5
Silver	U	0.16	0.50	mg/kg		6010B	08/30/10	1
Zinc	47.	1.7	7.5	mg/kg		6010B	08/31/10	5
Benzene	U	0.00090	0.0025	mg/kg		8021/80	08/29/10	5
Toluene	U	0.0015	0.025	mg/kg		8021/80	08/29/10	5
Ethylbenzene	0.0026	0.0013	0.0025	mg/kg		8021/80	08/29/10	5
Total Xylene	0.0034	0.0028	0.0075	mg/kg	J	8021/80	08/29/10	5
TPH (GC/FID) Low Fraction	U	0.14	0.50	mg/kg		GRO	08/29/10	5
Surrogate Recovery-%								
a,a,a-Trifluorotoluene (FID)	97.5			% Rec.		8021/80	08/29/10	5
a,a,a-Trifluorotoluene (PID)	103.			% Rec.		8021/80	08/29/10	5
TPH (GC/FID) High Fraction	50.	0.77	4.0	mg/kg		3546/DR	09/01/10	1
Surrogate recovery(%)								
o-Terphenyl	52.5			% Rec.		3546/DR	09/01/10	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0093	0.033	mg/kg		8270C	08/29/10	1
Acenaphthene	U	0.011	0.033	mg/kg		8270C	08/29/10	1
Acenaphthylene	U	0.011	0.033	mg/kg		8270C	08/29/10	1
Benzo(a)anthracene	U	0.0077	0.033	mg/kg		8270C	08/29/10	1
Benzo(a)pyrene	U	0.0074	0.033	mg/kg		8270C	08/29/10	1
Benzo(b)fluoranthene	U	0.0078	0.033	mg/kg		8270C	08/29/10	1
Benzo(g,h,i)perylene	U	0.0095	0.033	mg/kg		8270C	08/29/10	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: 09/02/10 14:14 Printed: 09/02/10 14:14
L475917-01 (PH) - 8.8@21.8c



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Est. 1970

REPORT OF ANALYSIS

Brett Kennedy
Oxy USA WTP LP - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

September 02, 2010

Date Received : August 27, 2010
Description : Pit Reclaims - Collbran
Sample ID : GRIFFITH 11-2 POST REC 6-8 IN
Collected By : Brett Kennedy
Collection Date : 08/25/10 10:15

ESC Sample # : L475917-01

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzo(k)fluoranthene	U	0.012	0.033	mg/kg		8270C	08/29/10	1
Chrysene	U	0.0091	0.033	mg/kg		8270C	08/29/10	1
Dibenz(a,h)anthracene	U	0.011	0.033	mg/kg		8270C	08/29/10	1
Fluoranthene	U	0.0079	0.033	mg/kg		8270C	08/29/10	1
Fluorene	0.013	0.0095	0.033	mg/kg	J	8270C	08/29/10	1
Indeno(1,2,3-cd)pyrene	U	0.011	0.033	mg/kg		8270C	08/29/10	1
Naphthalene	0.064	0.016	0.033	mg/kg		8270C	08/29/10	1
Phenanthrene	0.026	0.0073	0.033	mg/kg	J	8270C	08/29/10	1
Pyrene	U	0.0089	0.033	mg/kg		8270C	08/29/10	1
Surrogate Recovery								
Nitrobenzene-d5	87.2			% Rec.		8270C	08/29/10	1
2-Fluorobiphenyl	89.9			% Rec.		8270C	08/29/10	1
p-Terphenyl-d14	86.5			% Rec.		8270C	08/29/10	1

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REPORT OF ANALYSIS

Brett Kennedy
Oxy USA WTP LP - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

September 02, 2010

Date Received : August 27, 2010
Description : Pit Reclaims - Collbran
Sample ID : GRIFFITH 11-2 BG-N 0-6 IN
Collected By : Brett Kennedy
Collection Date : 08/25/10 10:40

ESC Sample # : L475917-02

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	7.0			su		9045D	09/01/10	1
Sodium Adsorption Ratio	0.50					Calc.	08/29/10	1
Specific Conductance	290			umhos/cm		9050AMo	08/28/10	1
Arsenic	3.9	0.32	1.0	mg/kg		6010B	09/01/10	1

U = ND (Not Detected)

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L475917-02 (PH) - 7.0@21.8c



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REPORT OF ANALYSIS

September 02, 2010

Brett Kennedy
Oxy USA WTP LP - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

Date Received : August 27, 2010
Description : Pit Reclaims - Collbran
Sample ID : GRIFFITH 11-2 BG-E 0-6 IN
Collected By : Brett Kennedy
Collection Date : 08/25/10 10:45

ESC Sample # : L475917-03

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	7.2			su		9045D	09/01/10	1
Sodium Adsorption Ratio	0.60					Calc.	08/29/10	1
Specific Conductance	280			umhos/cm		9050AMo	08/28/10	1
Arsenic	6.4	0.32	1.0	mg/kg		6010B	09/01/10	1

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L475917-03 (PH) - 7.2@21.5c



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REPORT OF ANALYSIS

Brett Kennedy
Oxy USA WTP LP - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

September 02, 2010

Date Received : August 27, 2010
Description : Pit Reclaims - Collbran
Sample ID : GRIFFITH 11-2 BG-S 0-6 IN
Collected By : Brett Kennedy
Collection Date : 08/25/10 10:54

ESC Sample # : L475917-04

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	6.7			su		9045D	09/01/10	1
Sodium Adsorption Ratio	0.90					Calc.	08/29/10	1
Specific Conductance	240			umhos/cm		9050AMo	08/28/10	1
Arsenic	4.9	0.32	1.0	mg/kg		6010B	09/01/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Reported: 09/02/10 14:14 Printed: 09/02/10 14:14
L475917-04 (PH) - 6.7@21.6c



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REPORT OF ANALYSIS

Brett Kennedy
Oxy USA WTP LP - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

September 02, 2010

Date Received : August 27, 2010
Description : Pit Reclaims - Collbran
Sample ID : GRIFFITH 11-2 BG-W 0-6 IN
Collected By : Brett Kennedy
Collection Date : 08/25/10 11:02

ESC Sample # : L475917-05

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	6.3			su		9045D	08/31/10	1
Sodium Adsorption Ratio	0.30					Calc.	08/29/10	1
Specific Conductance	230			umhos/cm		9050AMo	08/28/10	1
Arsenic	5.0	0.32	1.0	mg/kg		6010B	09/01/10	1

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Reported: 09/02/10 14:14 Printed: 09/02/10 14:14
L475917-05 (PH) - 6.3@22.7c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L475917-01	WG495797	SAMP	Total Xylene	R1352048	J
	WG495996	SAMP	Cadmium	R1355249	J
	WG495996	SAMP	Selenium	R1355249	O
	WG495714	SAMP	Fluorene	R1351228	J
	WG495714	SAMP	Phenanthrene	R1351228	J

Attachment B
Explanation of QC Qualifier Codes

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

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
09/02/10 at 14:14:56

TSR Signing Reports: 134
R5 - Desired TAT

Sample: L475917-01 Account: OXYWTPGJCO Received: 08/27/10 09:00 Due Date: 09/02/10 00:00 RPT Date: 09/02/10 14:14
Sample: L475917-02 Account: OXYWTPGJCO Received: 08/27/10 09:00 Due Date: 09/01/10 00:00 RPT Date: 09/02/10 14:14
Sample: L475917-03 Account: OXYWTPGJCO Received: 08/27/10 09:00 Due Date: 09/01/10 00:00 RPT Date: 09/02/10 14:14
Sample: L475917-04 Account: OXYWTPGJCO Received: 08/27/10 09:00 Due Date: 09/01/10 00:00 RPT Date: 09/02/10 14:14
Sample: L475917-05 Account: OXYWTPGJCO Received: 08/27/10 09:00 Due Date: 09/01/10 00:00 RPT Date: 09/02/10 14:14

Company Name/Address: Oxy USA WTP LP - Grand Junction, CO 760 Horizon Dr., Ste. 101 Grand Junction, CO 81506		Alternate billing information: Email to: <u>Brett Kennedy oxy.com</u> City/State Collected: _____ ESC Key: _____ P.O.#: _____		Analysis/Container/Preservative BTEX/6 RO/DRO PAH ECISAR/PH As Cd, Ba, Cd, Cr, Cu, Pb, Ni, Se, Ag, Zn Cr VI	
Report to: <u>Brett Kennedy</u> Project Description: <u>Pit Reclaims - 1011621</u> Phone: (970) 263-3601 FAX: (970) 201-2305		Client Project #: _____ Site/Facility ID#: _____ Collected by: <u>Brett Kennedy</u> Collected by (signature): <u>Brett Kennedy</u> Immediately Packed on loc N <u>Y</u> <u>✓</u>		Date Results Needed: Email? <u>No</u> <u>✓</u> Yes FAX? <u>✓</u> No <u>Yes</u> (Rush?) (Lab MUST Be Notified) Same Day..... 200% Next Day..... 100% Two Day..... 50% Three Day..... 25%	
Sample ID Griffith 11-2 Post Rec Comp Griffith 11-2 BG-N Griffith 11-2 BG-E Griffith 11-2 BG-S Griffith 11-2 BG-W		Comp/Grab SS 6" - 8" 0-6" ↓ ↓		Depth 1015 1040 1045 1054 1102	
Sample # (lab only) 147597-01 012 03 04 05		Remarks/Contaminant CoCode: OXYWTPGJ (lab use only) Template/Prelogin Shipped Via:		Remarks:	

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

pH _____ Temp _____
 Flow _____ Other _____

Relinquished by (Signature): <u>Brett Kennedy</u> Relinquished by (Signature): <u>Brett Kennedy</u> Relinquished by (Signature): <u>Brett Kennedy</u>		Date: 8/26/10 Date: 8/26/10 Date: 8/26/10	Time: 1210 Time: 1210 Time: 1210	Received by: (Signature) Received by: (Signature) Received for lab by: (Signature) <u>Blair Hilde</u>	Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier Condition: 0/c CoC Seals Intact: Y <u>✓</u> N <u>✓</u>	Temp: 34 Date: 8/27/10 Time: 0900	Bottles Received: 6 (83) pH Checked: NCF:
--	--	--	---	--	--	--	--



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

Report Summary

Friday December 16, 2011

Report Number: L551143

Samples Received: 12/13/11

Client Project: 900546.0005.010

Description: Griffith 11-2 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

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REPORT OF ANALYSIS

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

December 16, 2011

Date Received : December 13, 2011
Description : Griffith 11-2 Background
Sample ID : GRIFFITH 11-2 B6-CS
Collected By :
Collection Date : 12/12/11 09:20

ESC Sample # : L551143-01
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	12/16/11	1
Chromium, Trivalent	12.	0.17	2.0	mg/kg		Calc.	12/14/11	1
ORP	-29.			mV	T8	2580	12/14/11	1
pH	8.9			su	T8	9045D	12/16/11	1
Sodium Adsorption Ratio	1.5					Calc.	12/15/11	1
Specific Conductance	210			umhos/cm		9050AMo	12/14/11	1
Mercury	0.016	0.0015	0.020	mg/kg	J	7471	12/14/11	1
Arsenic	1.7	0.32	1.0	mg/kg		6010B	12/14/11	1
Barium	140	0.050	0.25	mg/kg		6010B	12/14/11	1
Cadmium	0.59	0.040	0.25	mg/kg		6010B	12/14/11	1
Chromium	12.	0.085	0.50	mg/kg		6010B	12/14/11	1
Copper	9.8	1.0	5.0	mg/kg		6010B	12/14/11	5
Lead	7.6	0.090	0.25	mg/kg		6010B	12/15/11	1
Nickel	9.7	0.26	1.0	mg/kg		6010B	12/14/11	1
Selenium	U	0.32	1.0	mg/kg		6010B	12/14/11	1
Silver	U	0.82	2.5	mg/kg	O	6010B	12/14/11	5
Zinc	43.	0.34	1.5	mg/kg		6010B	12/14/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	12/14/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (FID)	92.6			% Rec.		602/801	12/14/11	5
Benzene	U	0.0017	0.0050	mg/kg		8260B	12/14/11	5
Toluene	U	0.0016	0.025	mg/kg		8260B	12/14/11	5
Ethylbenzene	U	0.0019	0.0050	mg/kg		8260B	12/14/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	12/14/11	5
Surrogate Recovery								
Toluene-d8	97.8			% Rec.		8260B	12/14/11	5
Dibromofluoromethane	95.3			% Rec.		8260B	12/14/11	5
a,a,a-Trifluorotoluene	101.			% Rec.		8260B	12/14/11	5
4-Bromofluorobenzene	105.			% Rec.		8260B	12/14/11	5
TPH (GC/FID) High Fraction	U	0.77	4.0	mg/kg		3546/DR	12/13/11	1
Surrogate recovery(%) o-Terphenyl	78.9			% Rec.		3546/DR	12/13/11	1

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L551143-01 (PH) - 8.90@17.7c



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REPORT OF ANALYSIS

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

December 16, 2011

Date Received : December 13, 2011
Description : Griffith 11-2 Background
Sample ID : GRIFFITH 11-2 B6-CS
Collected By :
Collection Date : 12/12/11 09:20

ESC Sample # : L551143-01

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	12/14/11	1
Acenaphthene	U	0.00071	0.0060	mg/kg		8270C-S	12/14/11	1
Acenaphthylene	U	0.00057	0.0060	mg/kg		8270C-S	12/14/11	1
Benzo(a)anthracene	U	0.00092	0.0060	mg/kg		8270C-S	12/14/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	12/14/11	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	12/14/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	12/14/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	12/14/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	12/14/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	12/14/11	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	12/14/11	1
Fluorene	U	0.00055	0.0060	mg/kg		8270C-S	12/14/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	12/14/11	1
Naphthalene	U	0.00065	0.0060	mg/kg		8270C-S	12/14/11	1
Phenanthrene	0.00081	0.00074	0.0060	mg/kg	J	8270C-S	12/14/11	1
Pyrene	U	0.00059	0.0060	mg/kg		8270C-S	12/14/11	1
1-Methylnaphthalene	U	0.00079	0.0060	mg/kg		8270C-S	12/14/11	1
2-Methylnaphthalene	U	0.00059	0.0060	mg/kg		8270C-S	12/14/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	12/14/11	1
Surrogate Recovery								
Nitrobenzene-d5	54.8			% Rec.		8270C-S	12/14/11	1
2-Fluorobiphenyl	65.0			% Rec.		8270C-S	12/14/11	1
p-Terphenyl-d14	73.8			% Rec.		8270C-S	12/14/11	1

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L551143-01 (PH) - 8.90@17.7c



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REPORT OF ANALYSIS

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

December 16, 2011

Date Received : December 13, 2011
Description : Griffith 11-2 Background
Sample ID : GRIFFITH 11-2 BG-SE
Collected By :
Collection Date : 12/12/11 09:32

ESC Sample # : L551143-02

Site ID :

Project # : 900546.0005.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	7.1	20.	mg/kg	O	3060A/7	12/16/11	10
Chromium, Trivalent	13.	0.17	20.	mg/kg	J	Calc.	12/14/11	1
ORP	20.			mV	T8	2580	12/14/11	1
pH	6.5			su	T8	9045D	12/16/11	1
Sodium Adsorption Ratio	0.60					Calc.	12/15/11	1
Specific Conductance	51.			umhos/cm		9050AMo	12/14/11	1
Mercury	0.0091	0.0015	0.020	mg/kg	J	7471	12/14/11	1
Arsenic	4.2	0.32	1.0	mg/kg		6010B	12/14/11	1
Barium	150	0.050	0.25	mg/kg		6010B	12/14/11	1
Cadmium	0.28	0.040	0.25	mg/kg		6010B	12/14/11	1
Chromium	13.	0.085	0.50	mg/kg		6010B	12/14/11	1
Copper	12.	0.21	1.0	mg/kg		6010B	12/14/11	1
Lead	8.2	0.090	0.25	mg/kg		6010B	12/15/11	1
Nickel	9.4	0.26	1.0	mg/kg		6010B	12/14/11	1
Selenium	0.62	0.32	1.0	mg/kg	J	6010B	12/14/11	1
Silver	1.1	0.16	0.50	mg/kg		6010B	12/14/11	1
Zinc	40.	0.34	1.5	mg/kg		6010B	12/14/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	12/14/11	5
Surrogate Recovery (70-130)								
a,a,a-Trifluorotoluene (FID)	92.6			% Rec.		602/801	12/14/11	5
Benzene	U	0.0017	0.0050	mg/kg		8260B	12/14/11	5
Toluene	U	0.0016	0.025	mg/kg		8260B	12/14/11	5
Ethylbenzene	U	0.0019	0.0050	mg/kg		8260B	12/14/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	12/14/11	5
Surrogate Recovery								
Toluene-d8	97.5			% Rec.		8260B	12/14/11	5
Dibromofluoromethane	94.8			% Rec.		8260B	12/14/11	5
a,a,a-Trifluorotoluene	101.			% Rec.		8260B	12/14/11	5
4-Bromofluorobenzene	99.1			% Rec.		8260B	12/14/11	5
TPH (GC/FID) High Fraction	0.95	0.77	4.0	mg/kg	J	3546/DR	12/13/11	1
Surrogate recovery(%)								
o-Terphenyl	71.0			% Rec.		3546/DR	12/13/11	1

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L551143-02 (PH) - 6.52@19.1c

L551143-02 (CR6) - Diluted due to sample color interference.



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REPORT OF ANALYSIS

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

December 16, 2011

Date Received : December 13, 2011
Description : Griffith 11-2 Background
Sample ID : GRIFFITH 11-2 BG-SE
Collected By :
Collection Date : 12/12/11 09:32

ESC Sample # : L551143-02

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	12/14/11	1
Acenaphthene	U	0.00071	0.0060	mg/kg		8270C-S	12/14/11	1
Acenaphthylene	U	0.00057	0.0060	mg/kg		8270C-S	12/14/11	1
Benzo(a)anthracene	U	0.00092	0.0060	mg/kg		8270C-S	12/14/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	12/14/11	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	12/14/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	12/14/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	12/14/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	12/14/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	12/14/11	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	12/14/11	1
Fluorene	U	0.00055	0.0060	mg/kg		8270C-S	12/14/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	12/14/11	1
Naphthalene	U	0.00065	0.0060	mg/kg		8270C-S	12/14/11	1
Phenanthrene	U	0.00074	0.0060	mg/kg		8270C-S	12/14/11	1
Pyrene	U	0.00059	0.0060	mg/kg		8270C-S	12/14/11	1
1-Methylnaphthalene	U	0.00079	0.0060	mg/kg		8270C-S	12/14/11	1
2-Methylnaphthalene	U	0.00059	0.0060	mg/kg		8270C-S	12/14/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	12/14/11	1
Surrogate Recovery								
Nitrobenzene-d5	72.9			% Rec.		8270C-S	12/14/11	1
2-Fluorobiphenyl	66.1			% Rec.		8270C-S	12/14/11	1
p-Terphenyl-d14	146.			% Rec.	J1	8270C-S	12/14/11	1

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Note:

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Reported: 12/16/11 16:24 Printed: 12/16/11 16:24

L551143-02 (PH) - 6.52@19.1c

L551143-02 (CR6) - Diluted due to sample color interference.

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L551143-01	WG569766	SAMP	Silver	R1967074	O
	WG569738	SAMP	Mercury	R1965915	J
	WG570065	SAMP	pH	R1969016	T8
	WG569801	SAMP	Phenanthrene	R1966173	J
	WG569795	SAMP	ORP	R1966193	T8
L551143-02	WG569766	SAMP	Selenium	R1967074	J
	WG569759	SAMP	TPH (GC/FID) High Fraction	R1965575	J
	WG569826	SAMP	Chromium, Hexavalent	R1969413	O
	WG569738	SAMP	Mercury	R1965915	J
	WG570065	SAMP	pH	R1969016	T8
	WG569801	SAMP	p-Terphenyl-d14	R1966173	J1
	WG569795	SAMP	ORP	R1966193	T8
	WG569766	SAMP	Chromium, Trivalent	R1967074	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits
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.

Summary of Remarks For Samples Printed
12/16/11 at 16:24:42

TSR Signing Reports: 134
R4 - Rush: Three Day

Sample: L551143-01 Account: OXYGJCO Received: 12/13/11 09:46 Due Date: 12/16/11 00:00 RPT Date: 12/16/11 16:24

Sample: L551143-02 Account: OXYGJCO Received: 12/13/11 09:46 Due Date: 12/16/11 00:00 RPT Date: 12/16/11 16:24

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

Project Description: **GRAFFITH 11-2 BACKGROUND**

Phone: (970) 263-3601
FAX:

Client Project #: **900346.0005.010**
Site/Facility ID#:

Collected by: *[Signature]*

Collected by (signature): *[Signature]*

Packed on Ice N *[Signature]*

Rush? (Lab MUST Be Notified)
Same Day.....200%
Next Day.....100%
Two-Day.....50%
[Signature] **THREE DAY**

Date Results Needed:
Email? No Yes
FAX? No Yes

No. of Cntrs

Alternate billing information:

CO Table 910

Report to: **BLAIR-MOLLINS@OXY.COM**

Email to: **DANIEL - PAPILLIA@OXY.COM**

City/State Collected: **COLLbran**

ESC Key:

P.O.#:

Analysis/Container/Preservative

Prepared by: **ENVIRONMENTAL SCIENCE CORP.**
12065 Lebanon Road
Mt Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

Page 1 of 1

CoCode: OXYGJCO (lab use only)
Template/Prelogin
Shipped Via:
Remarks/Contaminant
Sample # (lab use only)

1551143
-01
-02

CR3, CR6SS
MRCRA8 + Cu, Ni, Zn
SAR, SPCON, PH
DRO, SV8270PAHSIM
V8260BTEX, GRO

pH Temp

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

Remarks: **THREE DAY**

4963 452 4911 Flow

Condition: (lab use only) **OK**

Samples returned via: ☒ UPS ☐ FedEx ☐ Courier

Temp: 3.4 C Bottles Received: 6

Date: 11/12/11 Time: 09:00

pH Checked: NCF:

Received by: (Signature) *[Signature]*

Received by: (Signature) *[Signature]*

Received for lab by: (Signature) *[Signature]*

Date: 12/12/11 Time: 5:00 PM

Date: 12/12/11 Time: 5:00 PM

Date: 12/12/11 Time: 5:00 PM



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Tax I.D. 62-0814289

Est. 1970

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

Report Summary

Monday April 30, 2012

Report Number: L571147

Samples Received: 04/20/12

Client Project:

Description: McDaniel 11-11 BG Sampling

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 - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

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

April 30, 2012

Date Received : April 20, 2012
Description : McDaniel 11-11 BG Sampling
Sample ID : BG-NE-PT 140 6 FT
Collected By : Lilly Griffin
Collection Date : 04/19/12 13:42

ESC Sample # : L571147-01

Site ID : MCD 11-11

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	7.9			su	T8	9045D	04/24/12	1
Specific Conductance	130			umhos/cm		9050AMo	04/23/12	1
Arsenic	9.5	1.6	5.0	mg/kg		6010B	04/29/12	5

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Reported: 04/30/12 08:18 Printed: 04/30/12 08:19
L571147-01 (PH) - 7.9@21.1c



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REPORT OF ANALYSIS

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

April 30, 2012

Date Received : April 20, 2012
Description : McDaniel 11-11 BG Sampling
Sample ID : BG-NE-PT 140 6 FT
Collected By : Lilly Griffin
Collection Date : 04/19/12 13:42

ESC Sample # : L571147-02

Site ID : MCD 11-11

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	6.0	1.6	5.0	mg/kg		6010B	04/29/12	5

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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Reported: 04/30/12 08:18 Printed: 04/30/12 08:19



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REPORT OF ANALYSIS

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

April 30, 2012

Date Received : April 20, 2012
Description : McDaniel 11-11 BG Sampling
Sample ID : BG-W.CENTRAL PT 150 8 FT
Collected By : Lilly Griffin
Collection Date : 04/19/12 13:50

ESC Sample # : L571147-03

Site ID : MCD 11-11

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	7.8			su	T8	9045D	04/24/12	1
Specific Conductance	150			umhos/cm		9050AMo	04/23/12	1
Arsenic	8.6	1.6	5.0	mg/kg		6010B	04/29/12	5

U = ND (Not Detected)

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L571147-03 (PH) - 7.8@21.1c



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REPORT OF ANALYSIS

April 30, 2012

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

Date Received : April 20, 2012
Description : McDaniel 11-11 BG Sampling
Sample ID : BG-W.CENTRAL PT 150 8 FT
Collected By : Lilly Griffin
Collection Date : 04/19/12 13:50

ESC Sample # : L571147-04

Site ID : MCD 11-11

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	8.7	1.6	5.0	mg/kg		6010B	04/29/12	5

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

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REPORT OF ANALYSIS

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

April 30, 2012

Date Received : April 20, 2012
Description : McDaniel 11-11 BG Sampling
Sample ID : BG-NW-PT 139 6 FT
Collected By : Lilly Griffin
Collection Date : 04/19/12 13:36

ESC Sample # : L571147-05

Site ID : MCD 11-11

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	7.8			su	T8	9045D	04/24/12	1
Specific Conductance	130			umhos/cm		9050AMo	04/23/12	1
Arsenic	U	0.32	1.0	mg/kg		6010B	04/29/12	1

U = ND (Not Detected)

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Note:

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Reported: 04/30/12 08:18 Printed: 04/30/12 08:19
L571147-05 (PH) - 7.8@20.9c



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REPORT OF ANALYSIS

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

April 30, 2012

Date Received : April 20, 2012
Description : McDaniel 11-11 BG Sampling
Sample ID : BG-NW-PT 139 6 FT
Collected By : Lilly Griffin
Collection Date : 04/19/12 13:36

ESC Sample # : L571147-06
Site ID : MCD 11-11
Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	2.0	0.32	1.0	mg/kg		6010B	04/28/12	1

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REPORT OF ANALYSIS

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

April 30, 2012

Date Received : April 20, 2012
Description : McDaniel 11-11 BG Sampling
Sample ID : BG-SE-PT 142 8 FT
Collected By : Lilly Griffin
Collection Date : 04/19/12 13:55

ESC Sample # : L571147-07

Site ID : MCD 11-11

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	7.9			su	T8	9045D	04/24/12	1
Specific Conductance	110			umhos/cm		9050AMo	04/23/12	1
Arsenic	7.1	1.6	5.0	mg/kg		6010B	04/29/12	5

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RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Reported: 04/30/12 08:18 Printed: 04/30/12 08:19
L571147-07 (PH) - 7.9@20.6c



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REPORT OF ANALYSIS

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

April 30, 2012

Date Received : April 20, 2012
Description : McDaniel 11-11 BG Sampling
Sample ID : BG-SE-PT 142 8 FT
Collected By : Lilly Griffin
Collection Date : 04/19/12 13:55

ESC Sample # : L571147-08

Site ID : MCD 11-11

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	4.3	1.6	5.0	mg/kg	J	6010B	04/29/12	5

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REPORT OF ANALYSIS

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

April 30, 2012

Date Received : April 20, 2012
Description : McDaniel 11-11 BG Sampling
Sample ID : BG-S.MOST-PT 143 6 FT
Collected By : Lilly Griffin
Collection Date : 04/19/12 14:02

ESC Sample # : L571147-09

Site ID : MCD 11-11

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	7.9			su	T8	9045D	04/24/12	1
Specific Conductance	99.			umhos/cm		9050AMo	04/23/12	1
Arsenic	5.0	0.32	1.0	mg/kg		6010B	04/28/12	1

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Reported: 04/30/12 08:18 Printed: 04/30/12 08:19
L571147-09 (PH) - 7.9@21.1c



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REPORT OF ANALYSIS

April 30, 2012

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

Date Received : April 20, 2012
Description : McDaniel 11-11 BG Sampling
Sample ID : BG-S.MOST-PT 143 6 FT
Collected By : Lilly Griffin
Collection Date : 04/19/12 14:02

ESC Sample # : L571147-10

Site ID : MCD 11-11

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	6.1	0.32	1.0	mg/kg		6010B	04/28/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Reported: 04/30/12 08:18 Printed: 04/30/12 08:19



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REPORT OF ANALYSIS

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

April 30, 2012

Date Received : April 20, 2012
Description : McDaniel 11-11 BG Sampling
Sample ID : BG-N.MOST-PT 138 6 FT
Collected By : Lilly Griffin
Collection Date : 04/19/12 13:31

ESC Sample # : L571147-11

Site ID : MCD 11-11

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	7.8			su	T8	9045D	04/24/12	1
Specific Conductance	100			umhos/cm		9050AMo	04/23/12	1
Arsenic	1.4	0.32	1.0	mg/kg		6010B	04/28/12	1

U = ND (Not Detected)

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Note:

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Reported: 04/30/12 08:18 Printed: 04/30/12 08:19
L571147-11 (PH) - 7.8@21.1c



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REPORT OF ANALYSIS

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

April 30, 2012

Date Received : April 20, 2012
Description : McDaniel 11-11 BG Sampling
Sample ID : BG-N.MOST-PT 138 6 FT
Collected By : Lilly Griffin
Collection Date : 04/19/12 13:31

ESC Sample # : L571147-12

Site ID : MCD 11-11

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	1.7	0.32	1.0	mg/kg		6010B	04/28/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

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Note:

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Reported: 04/30/12 08:18 Printed: 04/30/12 08:19

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L571147-01	WG589208	SAMP	pH	R2139213	T8
L571147-03	WG589208	SAMP	pH	R2139213	T8
L571147-05	WG589208	SAMP	pH	R2139213	T8
L571147-07	WG589208	SAMP	pH	R2139213	T8
L571147-08	WG589050	SAMP	Arsenic	R2147774	J
L571147-09	WG589208	SAMP	pH	R2139213	T8
L571147-11	WG589208	SAMP	pH	R2139213	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.

Summary of Remarks For Samples Printed
04/30/12 at 08:19:05

TSR Signing Reports: 134
R5 - Desired TAT

Sample: L571147-01 Account: OXYGJCO Received: 04/20/12 09:00 Due Date: 04/27/12 00:00 RPT Date: 04/30/12 08:18
Sample: L571147-02 Account: OXYGJCO Received: 04/20/12 09:00 Due Date: 04/27/12 00:00 RPT Date: 04/30/12 08:18
Sample: L571147-03 Account: OXYGJCO Received: 04/20/12 09:00 Due Date: 04/27/12 00:00 RPT Date: 04/30/12 08:18
Sample: L571147-04 Account: OXYGJCO Received: 04/20/12 09:00 Due Date: 04/27/12 00:00 RPT Date: 04/30/12 08:18
Sample: L571147-05 Account: OXYGJCO Received: 04/20/12 09:00 Due Date: 04/27/12 00:00 RPT Date: 04/30/12 08:18
Sample: L571147-06 Account: OXYGJCO Received: 04/20/12 09:00 Due Date: 04/27/12 00:00 RPT Date: 04/30/12 08:18
Sample: L571147-07 Account: OXYGJCO Received: 04/20/12 09:00 Due Date: 04/27/12 00:00 RPT Date: 04/30/12 08:18
Sample: L571147-08 Account: OXYGJCO Received: 04/20/12 09:00 Due Date: 04/27/12 00:00 RPT Date: 04/30/12 08:18
Sample: L571147-09 Account: OXYGJCO Received: 04/20/12 09:00 Due Date: 04/27/12 00:00 RPT Date: 04/30/12 08:18
Sample: L571147-10 Account: OXYGJCO Received: 04/20/12 09:00 Due Date: 04/27/12 00:00 RPT Date: 04/30/12 08:18
Sample: L571147-11 Account: OXYGJCO Received: 04/20/12 09:00 Due Date: 04/27/12 00:00 RPT Date: 04/30/12 08:18
Sample: L571147-12 Account: OXYGJCO Received: 04/20/12 09:00 Due Date: 04/27/12 00:00 RPT Date: 04/30/12 08:18

4



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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 September 15, 2010

Report Number: L478000

Samples Received: 09/10/10

Client Project:

Description: Pit Reclaims - Collbran

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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Est. 1970

REPORT OF ANALYSIS

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

September 15, 2010

Date Received : September 10, 2010
Description : Pit Reclaims - Collbran
Sample ID : GRIFFITH 11-2 CAP 0-6 IN
Collected By : Brett Kennedy
Collection Date : 09/08/10 16:15

ESC Sample # : L478000-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Sodium Adsorption Ratio	20.			Calc.	09/13/10	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 09/15/10 17:15 Printed: 09/15/10 17:15

Summary of Remarks For Samples Printed
09/15/10 at 17:15:23

TSR Signing Reports: 134
R4 - Rush: Three Day

Sample: L478000-01 Account: OXYGJCO Received: 09/10/10 09:00 Due Date: 09/15/10 00:00 RPT Date: 09/15/10 17:15



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

Report Summary

Wednesday October 06, 2010

Report Number: L481950

Samples Received: 10/02/10

Client Project:

Description: Pit Reclaims - Collbran

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:

Craig Cothron , 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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REPORT OF ANALYSIS

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

October 06, 2010

Date Received : October 02, 2010
Description : Pit Reclaims - Collbran
Sample ID : GRIFFITH 11-2 CAP 0-6 IN
Collected By : Brett Kennedy
Collection Date : 10/01/10 12:00

ESC Sample # : L481950-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Sodium Adsorption Ratio	20.			Calc.	10/05/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 10/06/10 16:48 Printed: 10/06/10 16:49



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REPORT OF ANALYSIS

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

October 06, 2010

Date Received : October 02, 2010
Description : Pit Reclaims - Collbran
Sample ID : SOIL PILE 11-2 0-6 IN
Collected By : Brett Kennedy
Collection Date : 10/01/10 12:12

ESC Sample # : L481950-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Sodium Adsorption Ratio	17.			Calc.	10/05/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 10/06/10 16:48 Printed: 10/06/10 16:49

Summary of Remarks For Samples Printed
10/06/10 at 16:49:08

TSR Signing Reports: 134
R4 - Rush: Three Day

Sample: L481950-01 Account: OXYGJCO Received: 10/02/10 09:00 Due Date: 10/06/10 00:00 RPT Date: 10/06/10 16:48

Sample: L481950-02 Account: OXYGJCO Received: 10/02/10 09:00 Due Date: 10/06/10 00:00 RPT Date: 10/06/10 16:48



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

Report Summary

Wednesday November 10, 2010

Report Number: L486809

Samples Received: 11/02/10

Client Project:

Description: Pit Reclaims - Collbran

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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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REPORT OF ANALYSIS

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

November 10, 2010

Date Received : November 02, 2010
Description : Pit Reclaims - Collbran
Sample ID : GRIFFITH 11-2 1 FILL 0-6 IN
Collected By : Brett Kennedy
Collection Date : 11/01/10 13:30

ESC Sample # : L486809-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Sodium Adsorption Ratio	8.3			Calc.	11/07/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 11/10/10 14:50 Printed: 11/10/10 14:50



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REPORT OF ANALYSIS

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

November 10, 2010

Date Received : November 02, 2010
Description : Pit Reclaims - Collbran
Sample ID : GRIFFITH 11-2 2 FILL 0-6 IN
Collected By : Brett Kennedy
Collection Date : 11/01/10 13:33

ESC Sample # : L486809-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Sodium Adsorption Ratio	9.7			Calc.	11/07/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 11/10/10 14:50 Printed: 11/10/10 14:50



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REPORT OF ANALYSIS

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

November 10, 2010

Date Received : November 02, 2010
Description : Pit Reclaims - Collbran
Sample ID : GRIFFITH 11-2 3 FILL 0-6 IN
Collected By : Brett Kennedy
Collection Date : 11/01/10 13:38

ESC Sample # : L486809-03

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Sodium Adsorption Ratio	4.3			Calc.	11/07/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 11/10/10 14:50 Printed: 11/10/10 14:50



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REPORT OF ANALYSIS

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

November 10, 2010

Date Received : November 02, 2010
Description : Pit Reclaims - Collbran
Sample ID : GRIFFITH 11-2 4 FILL 0-6 IN
Collected By : Brett Kennedy
Collection Date : 11/01/10 13:42

ESC Sample # : L486809-04

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Sodium Adsorption Ratio	5.0			Calc.	11/07/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 11/10/10 14:50 Printed: 11/10/10 14:50



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REPORT OF ANALYSIS

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

November 10, 2010

Date Received : November 02, 2010
Description : Pit Reclaims - Collbran
Sample ID : GRIFFITH 11-2 5N 0-6 IN
Collected By : Brett Kennedy
Collection Date : 11/01/10 13:46

ESC Sample # : L486809-05

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Sodium Adsorption Ratio	5.7			Calc.	11/07/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 11/10/10 14:50 Printed: 11/10/10 14:50

Summary of Remarks For Samples Printed
11/10/10 at 14:50:59

TSR Signing Reports: 134
R5 - Desired TAT

Sample: L486809-01 Account: OXYGJCO Received: 11/02/10 09:30 Due Date: 11/09/10 00:00 RPT Date: 11/10/10 14:50
Sample: L486809-02 Account: OXYGJCO Received: 11/02/10 09:30 Due Date: 11/09/10 00:00 RPT Date: 11/10/10 14:50
Sample: L486809-03 Account: OXYGJCO Received: 11/02/10 09:30 Due Date: 11/09/10 00:00 RPT Date: 11/10/10 14:50
Sample: L486809-04 Account: OXYGJCO Received: 11/02/10 09:30 Due Date: 11/09/10 00:00 RPT Date: 11/10/10 14:50
Sample: L486809-05 Account: OXYGJCO Received: 11/02/10 09:30 Due Date: 11/09/10 00:00 RPT Date: 11/10/10 14:50

