



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 12/19/2011

1. OGCC Operator Number: 66571
2. Name of Operator: OXY USA WTP LP
3. Address: 760 Horizon Drive, Suite 101
City: Grand Junction State: CO Zip: 81506
4. Contact Name: Daniel I. Padilla
Phone: 970.263.3637 Fax: 970.263.3694
5. API Number 05- 045-14298 OGCC Facility ID Number 335889
6. Well/Facility Name: 697-09-61D Res. Pit (Lined) 7. Well/Facility Number 697-09-61D
8. Location (Qtr/Tr, Sec, Twp, Rng, Meridian): SWSE, Sec. 9, T6S, R97W, 6th PM
9. County: Garfield 10. Field Name: Grand Valley
11. Federal, Indian or State Lease Number:
Survey Plat
Directional Survey
Surface Eqpmt Diagram
Technical Info Page
Other Lab Data & Map

General Notice

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:
Change of Surface Footage to Exterior Section Lines:
Change of Bottomhole Footage from Exterior Section Lines:
Change of Bottomhole Footage to Exterior Section Lines:
Bottomhole location Qtr/Tr, 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
CHANGE SPACING UNIT
Formation Formation Code Spacing order number Unit Acreage Unit configuration
Remove from surface bond Signed surface use agreement attached
CHANGE OF OPERATOR (prior to drilling):
Effective Date:
Plugging Bond: Blanket Individual
CHANGE WELL NAME
From:
To:
Effective Date:
ABANDONED LOCATION:
Was location ever built? Yes No
Is site ready for inspection? Yes No
Date Ready for inspection:
NOTICE OF CONTINUED SHUT IN STATUS
Date well shut in or temporarily abandoned:
Has Production Equipment been removed from site? Yes No
MIT required if shut in longer than two years. Date of last MIT
SPUD DATE:
REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)
SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK
Method used Cementing tool setting/perf depth Cement volume Cement top Cement bottom Date
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

Notice of Intent Approximate Start Date:
Report of Work Done Date Work Completed:
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)
Intent to Recomplete (submit form 2) Request to Vent or Flare E&P Waste Disposal
Change Drilling Plans Repair Well Beneficial Reuse of E&P Waste
Gross Interval Changed? Rule 502 variance requested Status Update/Change of Remediation Plans
Casing/Cementing Program Change 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: 12/19/11 Email: daniel_padilla@oxy.com
Print Name: Daniel I. Padilla Title: Regulatory Advisor

COGCC Approved: Title: Date:

CONDITIONS OF APPROVAL, IF ANY:

FORM
4
Rev 12/05

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

- | | |
|--|----------------------------------|
| 1. OGCC Operator Number: 66571 | API Number: 05-045-14298 |
| 2. Name of Operator: OXY USA WTP LP | OGCC Facility ID #: 335889 |
| 3. Well/Facility Name: 697-09-61D Reserve Pit (Lined) | Well/Facility Number: 697-09-61D |
| 4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSE, Sec. 9, T6S, R97W, 6th PM | |

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

5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**

OXY USA WTP LP (Oxy) has completed reclamation of the above-mentioned reserve pit. Oxy identified post reclamation levels for Arsenic (As) to be below undisturbed background levels but above COGCC Table 910-1 concentration 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 locations, 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 reclamation sample. 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 10/05/2009).

The reclaimed pit was contoured to be level with active production pad surface, which includes proper stormwater run-on and runoff controls during the operational phase of the production pad. Oxy requests to leave the pit at pad grade until final pad reclamation occurs at the end of the life of the pad.



OXY USA WTP LP

760 Horizon Drive, Suite 101
Grand Junction, CO 81506

697-09-61D Closure Sampling

Updated: December 13, 2011 Garfield County, Colorado

0 0.005 0.01 0.02 0.03 0.04 0.05 Miles



Pond or Pit Location



Pit Samples



Pre-Reclaim Samples



Background Samples



697-09-61D Closure Sampling

Updated: December 13, 2011 Garfield County, Colorado



Pond or Pit Location



Pit Samples



Pre-Reclaim Samples



Background Samples



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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

Tuesday October 13, 2009

Report Number: L425863

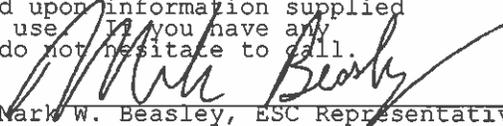
Samples Received: 10/07/09

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

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



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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 13, 2009

Date Received : October 07, 2009
Description : Pit Reclaims CC
Sample ID : 697-09-61D POST REC
Collected By : Brett Kennedy
Collection Date : 10/05/09 10:19

ESC Sample # : L425863-01

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Q	Method	Date	Dil.
Chromium, Hexavalent	U	0.10	2.0	mg/kg		3060A/7	10/12/09	1
ORP	250			mV		2580	10/08/09	1
pH	8.1			su		9045D	10/12/09	1
Sodium Adsorption Ratio	9.4					Calc.	10/09/09	1
Specific Conductance	900			umhos/cm		9050Amo	10/09/09	1
Mercury	0.028	0.0025	0.020	mg/kg		7471	10/09/09	1
Arsenic	13.	0.32	1.0	mg/kg		6010B	10/10/09	1
Cadmium	0.73	0.040	0.25	mg/kg		6010B	10/10/09	1
Chromium	28.	0.085	0.50	mg/kg		6010B	10/10/09	1
Copper	21.	0.21	1.0	mg/kg		6010B	10/10/09	1
Lead	13.	0.090	0.25	mg/kg		6010B	10/10/09	1
Nickel	18.	0.26	1.0	mg/kg		6010B	10/10/09	1
Selenium	U	0.63	2.0	mg/kg	O	6010B	10/11/09	2
Silver	U	0.16	0.50	mg/kg		6010B	10/10/09	1
Zinc	53.	0.34	1.5	mg/kg		6010B	10/10/09	1
Benzene	0.0067	0.00090	0.0025	mg/kg		8021/80	10/09/09	5
Toluene	0.011	0.0015	0.025	mg/kg	J	8021/80	10/09/09	5
Ethylbenzene	0.0024	0.0013	0.0025	mg/kg	J	8021/80	10/09/09	5
Total Xylene	U	0.0028	0.0075	mg/kg		8021/80	10/09/09	5
TPH (GC/FID) Low Fraction	0.33	0.16	0.50	mg/kg	J	GRO	10/09/09	5
Surrogate Recovery-%								
a, a, a-Trifluorotoluene (FID)	94.4			% Rec.		8021/80	10/09/09	5
a, a, a-Trifluorotoluene (PID)	95.1			% Rec.		8021/80	10/09/09	5
TPH (GC/FID) High Fraction	280	1.3	4.0	mg/kg		3546/DR	10/09/09	1
Surrogate recovery(%)								
o-Terphenyl	54.6			% Rec.		3546/DR	10/09/09	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0093	0.033	mg/kg		8270C	10/11/09	1
Acenaphthene	U	0.011	0.033	mg/kg		8270C	10/11/09	1
Acenaphthylene	U	0.011	0.033	mg/kg		8270C	10/11/09	1
Benzo(a)anthracene	U	0.0077	0.033	mg/kg		8270C	10/11/09	1
Benzo(a)pyrene	U	0.0074	0.033	mg/kg		8270C	10/11/09	1
Benzo(b)fluoranthene	U	0.0078	0.033	mg/kg		8270C	10/11/09	1
Benzo(g,h,i)perylene	U	0.0095	0.033	mg/kg		8270C	10/11/09	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: 10/13/09 08:45 Printed: 10/13/09 08:46

L425863-01 (PH) - 8.1@20.6c



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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

October 13, 2009

Date Received : October 07, 2009
Description : Pit Reclaims CC
Sample ID : 697-09-61D POST REC
Collected By : Brett Kennedy
Collection Date : 10/05/09 10:19

ESC Sample # : L425863-01

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Q	Method	Date	Dil.
Benzo(k)fluoranthene	U	0.012	0.033	mg/kg		8270C	10/11/09	1
Chrysene	U	0.0091	0.033	mg/kg		8270C	10/11/09	1
Dibenz(a,h)anthracene	U	0.011	0.033	mg/kg		8270C	10/11/09	1
Fluoranthene	U	0.0079	0.033	mg/kg		8270C	10/11/09	1
Fluorene	U	0.0095	0.033	mg/kg		8270C	10/11/09	1
Indeno(1,2,3-cd)pyrene	U	0.011	0.033	mg/kg		8270C	10/11/09	1
Naphthalene	0.044	0.016	0.033	mg/kg		8270C	10/11/09	1
Phenanthrene	0.018	0.0073	0.033	mg/kg	J	8270C	10/11/09	1
Pyrene	U	0.0089	0.033	mg/kg		8270C	10/11/09	1
Surrogate Recovery								
Nitrobenzene-d5	63.6			% Rec.		8270C	10/11/09	1
2-Fluorobiphenyl	61.6			% Rec.		8270C	10/11/09	1
p-Terphenyl-d14	72.1			% Rec.		8270C	10/11/09	1

U = ND (Not Detected)

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Reported: 10/13/09 08:45 Printed: 10/13/09 08:46
L425863-01 (PH) - 8.1@20.6c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L425863-01	WG444677	SAMP	Toluene	R940868	J
	WG444677	SAMP	Ethylbenzene	R940868	J
	WG444677	SAMP	TPH (GC/FID) Low Fraction	R940868	J
	WG444694	SAMP	Selenium	R944108	O
	WG444479	SAMP	Phenanthrene	R943148	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.



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

Grand Junction, CO 81506

Report Summary

Wednesday April 01, 2009

Report Number: L394737

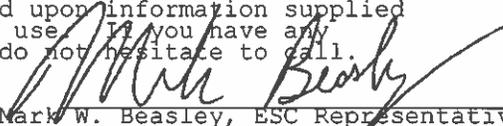
Samples Received: 03/27/09

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

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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

April 01, 2009

Date Received : March 27, 2009
Description : Pit Reclaims
Sample ID : CC 697-09-61D BG
Collected By : Brett Kennedy
Collection Date : 03/25/09 11:10

ESC Sample # : L394737-01

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	230		mV	2580	03/30/09	1
pH	8.4		su	9045D	03/28/09	1
Sodium Adsorption Ratio	27.			Calc.	04/01/09	1
Specific Conductance	680		umhos/cm	9050AMod	03/27/09	1
Mercury	0.024	0.020	mg/kg	7471	03/29/09	1
Arsenic	4.0	1.0	mg/kg	6010B	03/31/09	1
Barium	650	0.25	mg/kg	6010B	03/31/09	1
Cadmium	0.61	0.25	mg/kg	6010B	03/31/09	1
Chromium	21.	0.50	mg/kg	6010B	03/31/09	1
Copper	22.	1.0	mg/kg	6010B	03/31/09	1
Lead	13.	0.25	mg/kg	6010B	03/31/09	1
Nickel	14.	1.0	mg/kg	6010B	03/31/09	1
Selenium	2.0	1.0	mg/kg	6010B	03/31/09	1
Silver	BDL	0.50	mg/kg	6010B	03/31/09	1
Zinc	53.	1.5	mg/kg	6010B	03/31/09	1
Benzene	0.0028	0.0025	mg/kg	8021/8015	03/28/09	5
Toluene	BDL	0.025	mg/kg	8021/8015	03/28/09	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	03/28/09	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	03/28/09	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	03/28/09	5
Surrogate Recovery-%						
a, a, a-Trifluorotoluene (FID)	95.8		% Rec.	8021/8015	03/28/09	5
a, a, a-Trifluorotoluene (PID)	102.		% Rec.	8021/8015	03/28/09	5
TPH (GC/FID) High Fraction	190	20.	mg/kg	3546/DRO	04/01/09	5
Surrogate recovery(%)						
o-Terphenyl	53.3		% Rec.	3546/DRO	04/01/09	5
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)
L394737-01 (PH) - 8.4@20.9c



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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

April 01, 2009

Date Received : March 27, 2009
Description : Pit Reclaims
Sample ID : CC 697-09-61D BG
Collected By : Brett Kennedy
Collection Date : 03/25/09 11:10

ESC Sample # : L394737-01

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	75.5		% Rec.	8270C	03/30/09	1
2-Fluorobiphenyl	80.1		% Rec.	8270C	03/30/09	1
p-Terphenyl-d14	61.8		% Rec.	8270C	03/30/09	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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Reported: 04/01/09 15:26 Printed: 04/01/09 15:26
L394737-01 (PH) - 8.4@20.9c



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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

April 01, 2009

Date Received : March 27, 2009
Description : Pit Reclaims
Sample ID : CC 697-06-61D-PRE-REC
Collected By : Brett Kennedy
Collection Date : 03/25/09 11:00

ESC Sample # : L394737-02

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	160		mV	2580	03/30/09	1
pH	9.0		su	9045D	03/28/09	1
Sodium Adsorption Ratio	51.			Calc.	04/01/09	1
Specific Conductance	2200		umhos/cm	9050AMod	03/27/09	1
Mercury	BDL	0.020	mg/kg	7471	03/29/09	1
Arsenic	BDL	1.0	mg/kg	6010B	03/31/09	1
Barium	2400	0.25	mg/kg	6010B	03/31/09	1
Cadmium	BDL	0.25	mg/kg	6010B	03/31/09	1
Chromium	6.5	0.50	mg/kg	6010B	03/31/09	1
Copper	9.5	1.0	mg/kg	6010B	03/31/09	1
Lead	17.	0.25	mg/kg	6010B	03/31/09	1
Nickel	4.2	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	18.	1.5	mg/kg	6010B	03/31/09	1
Benzene	0.11	0.0025	mg/kg	8021/8015	03/28/09	5
Toluene	0.096	0.025	mg/kg	8021/8015	03/28/09	5
Ethylbenzene	0.022	0.0025	mg/kg	8021/8015	03/28/09	5
Total Xylene	0.13	0.0075	mg/kg	8021/8015	03/28/09	5
TPH (GC/FID) Low Fraction	3.4	0.50	mg/kg	GRO	03/28/09	5
Surrogate Recovery-%						
a, a, a-Trifluorotoluene (FID)	87.4		% Rec.	8021/8015	03/28/09	5
a, a, a-Trifluorotoluene (PID)	94.7		% Rec.	8021/8015	03/28/09	5
TPH (GC/FID) High Fraction	280	20.	mg/kg	3546/DRO	03/30/09	5
Surrogate recovery(%)						
o-Terphenyl	90.9		% Rec.	3546/DRO	03/30/09	5
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)
L394737-02 (PH) - 9.0@21.1c



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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

April 01, 2009

Date Received : March 27, 2009
Description : Pit Reclaims
Sample ID : CC 697-06-61D-PRE-REC
Collected By : Brett Kennedy
Collection Date : 03/25/09 11:00

ESC Sample # : L394737-02

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	0.043	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	0.25	0.033	mg/kg	8270C	03/30/09	1
Phenanthrene	0.099	0.033	mg/kg	8270C	03/30/09	1
Pyrene	BDL	0.033	mg/kg	8270C	03/30/09	1
Surrogate Recovery						
Nitrobenzene-d5	96.3		% Rec.	8270C	03/30/09	1
2-Fluorobiphenyl	74.4		% Rec.	8270C	03/30/09	1
p-Terphenyl-d14	52.8		% Rec.	8270C	03/30/09	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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Reported: 04/01/09 15:26 Printed: 04/01/09 15:26
L394737-02 (PH) - 9.0@21.1c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L394737-01	WG414044	SAMP	TPH (GC/FID) Low Fraction	R688407	J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.

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

Grand Junction, CO 81506

Report Summary

Friday October 09, 2009

Report Number: L425258

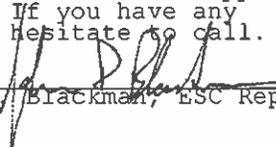
Samples Received: 10/02/09

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:


John D. Blackman, 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
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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

October 09, 2009

Date Received : October 02, 2009
Description : Pit Reclaims CC
Sample ID : 698-09-61D BG
Collected By : Brett Kennedy
Collection Date : 10/01/09 14:10

ESC Sample # : L425258-01

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Q	Method	Date	Dil.
pH	7.1			su		9045D	10/08/09	1
Sodium Adsorption Ratio	2.2					Calc.	10/09/09	1
Specific Conductance	200			umhos/cm		9050AMo	10/07/09	1
Arsenic	3.5	0.32	1.0	mg/kg		6010B	10/08/09	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Reported: 10/09/09 15:05 Printed: 10/09/09 15:05

L425258-01 (PH) - 7.1@21.4c

Prepared by:

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G179

CoCode: OXYWTPGJ (lab use only)
Template: Prelogin
Shipped Via:

Remarks/Contaminant

Sample # (lab only)
1425258-0

Analysis/Container/Preservative

Alternate billing information:

**Oxy USA WTP LP - Grand
Junction, CO**

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

Report to: Brett Kennedy
Email to: b.k.kennedy@oxy.com

Project Description: Pit Reclaims - CC

Phone: (970) 263-3601
FAX: (970) 201-2305

Collected by: Brett Kennedy
City/State Collected: _____

Client Project #: _____
Site/Facility ID#: _____
ESC Key: _____
P.O.#: _____

Collected by (signature): *Brett Kennedy*
Date Results Needed:
Same Day: _____
Next Day: _____
Two Day: _____
Three Day: _____

Sample ID: 697-09-610 B6
Comp/Grab: Comp SS
Matrix*: SS
Depth: 8"

Date: 10/10/09
Time: 1410

No. of Cntrs: 1

Analysis/Container/Preservative: SAR, PH, PH

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

Relinquished by (Signature): *Brett Kennedy*

Relinquished by (Signature): _____

Relinquished by (Signature): _____

Date: 10/10/09
Time: 1705

Date: _____
Time: _____

Date: _____
Time: _____

Received by (Signature): _____

Received by (Signature): _____

Received by (Signature): _____

Date: 10/12/09
Time: 0900

Date: _____
Time: _____

Date: _____
Time: _____

Temp: 3.10C

Bottles Received: 202

Condition: (lab use only)

pH _____
Flow _____
Temp _____
Other _____

Samples returned via: UPS
 FedEx Courier

CoC Seals Intact: Y N NA

Checked: YES

963262593725

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

Report Summary

Monday June 13, 2011

Report Number: L519132

Samples Received: 06/03/11

Client Project: 900546.0007.010

Description: 609-14-Annex

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:



Mark W. Beasley , ESC Representative

Laboratory Certification Numbers

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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

June 13, 2011

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

Date Received : June 03, 2011
Description : 609-14-Annex
Sample ID : BACKGROUND-2
Collected By : CJB
Collection Date : 06/02/11 12:14

ESC Sample # : L519132-01

Site ID :

Project # : 900546.0007.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	0.71	2.0	mg/kg		3060A/7	06/08/11	1
Chromium, Trivalent	52.	0.17	2.0	mg/kg		Calc.	06/07/11	1
ORP	110			mV		2580	06/07/11	1
pH	8.8			su		9045D	06/07/11	1
Sodium Adsorption Ratio	2.5					Calc.	06/08/11	1
Specific Conductance	120			umhos/cm		9050AMo	06/08/11	1
Mercury	0.029	0.0015	0.020	mg/kg		7471	06/08/11	1
Arsenic	20.	0.32	1.0	mg/kg	J3	6010B	06/07/11	1
Barium	310	0.050	0.25	mg/kg	V	6010B	06/07/11	1
Cadmium	0.24	0.040	0.25	mg/kg	J	6010B	06/07/11	1
Chromium	52.	0.085	0.50	mg/kg		6010B	06/07/11	1
Copper	19.	0.21	1.0	mg/kg		6010B	06/07/11	1
Lead	17.	0.090	0.25	mg/kg		6010B	06/07/11	1
Nickel	25.	0.26	1.0	mg/kg		6010B	06/07/11	1
Selenium	1.3	0.32	1.0	mg/kg		6010B	06/07/11	1
Silver	0.58	0.16	0.50	mg/kg	P1	6010B	06/07/11	1
Zinc	52.	0.34	1.5	mg/kg		6010B	06/07/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	06/07/11	5
Surrogate Recovery (70-130) a, a, a-Trifluorotoluene (FID)	99.9			% Rec.		602/801	06/07/11	5
Benzene	U	0.0021	0.0050	mg/kg		8260B	06/05/11	5
Toluene	U	0.0017	0.025	mg/kg		8260B	06/05/11	5
Ethylbenzene	U	0.0016	0.0050	mg/kg		8260B	06/05/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	06/05/11	5
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	06/05/11	5
Dibromofluoromethane	96.7			% Rec.		8260B	06/05/11	5
a, a, a-Trifluorotoluene	93.5			% Rec.		8260B	06/05/11	5
4-Bromofluorobenzene	95.4			% Rec.		8260B	06/05/11	5
TPH (GC/FID) High Fraction	10.	0.77	4.0	mg/kg		3546/DR	06/12/11	1
Surrogate recovery (%) o-Terphenyl	131.			% Rec.		3546/DR	06/12/11	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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L519132-01 (PH) - 8.8@21.1c



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REPORT OF ANALYSIS

June 13, 2011

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

Date Received : June 03, 2011
Description : 609-14-Annex
Sample ID : BACKGROUND-2
Collected By : CJB
Collection Date : 06/02/11 12:14

ESC Sample # : L519132-01

Site ID :

Project # : 900546.0007.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	06/07/11	1
Acenaphthene	U	0.00071	0.0060	mg/kg		8270C-S	06/07/11	1
Acenaphthylene	U	0.00057	0.0060	mg/kg		8270C-S	06/07/11	1
Benzo(a)anthracene	0.0010	0.00092	0.0060	mg/kg	J	8270C-S	06/07/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	06/07/11	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	06/07/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	06/07/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	06/07/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	06/07/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	06/07/11	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	06/07/11	1
Fluorene	0.0015	0.00055	0.0060	mg/kg	J	8270C-S	06/07/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	06/07/11	1
Naphthalene	0.0078	0.00065	0.0060	mg/kg		8270C-S	06/07/11	1
Phenanthrene	0.0035	0.00074	0.0060	mg/kg	J	8270C-S	06/07/11	1
Pyrene	U	0.00059	0.0060	mg/kg		8270C-S	06/07/11	1
1-Methylnaphthalene	0.0033	0.00079	0.0060	mg/kg	J	8270C-S	06/07/11	1
2-Methylnaphthalene	0.011	0.00059	0.0060	mg/kg		8270C-S	06/07/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	06/07/11	1
Surrogate Recovery								
Nitrobenzene-d5	69.7			% Rec.		8270C-S	06/07/11	1
2-Fluorobiphenyl	74.8			% Rec.		8270C-S	06/07/11	1
p-Terphenyl-d14	73.7			% Rec.		8270C-S	06/07/11	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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REPORT OF ANALYSIS

June 13, 2011

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

Date Received : June 03, 2011
Description : 609-14-Annex
Sample ID : BACKGROUND-1
Collected By : CJB
Collection Date : 06/02/11 12:38

ESC Sample # : L519132-02
Site ID :
Project # : 900546.0007.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	0.71	2.0	mg/kg		3060A/7	06/08/11	1
Chromium, Trivalent	49.	0.17	2.0	mg/kg		Calc.	06/07/11	1
ORP	120			mV		2580	06/07/11	1
pH	8.5			su		9045D	06/07/11	1
Sodium Adsorption Ratio	2.5					Calc.	06/08/11	1
Specific Conductance	140			umhos/cm		9050AMo	06/08/11	1
Mercury	0.015	0.0015	0.020	mg/kg	J	7471	06/08/11	1
Arsenic	5.1	0.32	1.0	mg/kg		6010B	06/07/11	1
Barium	340	0.050	0.25	mg/kg		6010B	06/07/11	1
Cadmium	0.55	0.040	0.25	mg/kg		6010B	06/07/11	1
Chromium	49.	0.085	0.50	mg/kg		6010B	06/07/11	1
Copper	21.	0.21	1.0	mg/kg		6010B	06/07/11	1
Lead	15.	0.090	0.25	mg/kg		6010B	06/07/11	1
Nickel	28.	0.26	1.0	mg/kg		6010B	06/07/11	1
Selenium	0.68	0.32	1.0	mg/kg	J	6010B	06/07/11	1
Silver	0.45	0.16	0.50	mg/kg	J	6010B	06/07/11	1
Zinc	58.	0.34	1.5	mg/kg		6010B	06/07/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	06/07/11	5
Surrogate Recovery (70-130) a, a, a-Trifluorotoluene (FID)	101.			% Rec.		602/801	06/07/11	5
Benzene	U	0.0021	0.0050	mg/kg		8260B	06/05/11	5
Toluene	U	0.0017	0.025	mg/kg		8260B	06/05/11	5
Ethylbenzene	U	0.0016	0.0050	mg/kg		8260B	06/05/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	06/05/11	5
Surrogate Recovery								
Toluene-d8	99.8			% Rec.		8260B	06/05/11	5
Dibromofluoromethane	95.2			% Rec.		8260B	06/05/11	5
a, a, a-Trifluorotoluene	94.3			% Rec.		8260B	06/05/11	5
4-Bromofluorobenzene	97.6			% Rec.		8260B	06/05/11	5
TPH (GC/FID) High Fraction	5.1	0.77	4.0	mg/kg		3546/DR	06/08/11	1
Surrogate recovery(%) o-Terphenyl	123.			% Rec.		3546/DR	06/08/11	1

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MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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L519132-02 (PH) - 8.5@21.0c



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Tax I.D. 62-0814289
 Est. 1970

REPORT OF ANALYSIS

June 13, 2011

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

Date Received : June 03, 2011
 Description : 609-14-Annex
 Sample ID : BACKGROUND-1
 Collected By : CJB
 Collection Date : 06/02/11 12:38

ESC Sample # : L519132-02

Site ID :

Project # : 900546.0007.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	06/07/11	1
Acenaphthene	U	0.00071	0.0060	mg/kg		8270C-S	06/07/11	1
Acenaphthylene	U	0.00057	0.0060	mg/kg		8270C-S	06/07/11	1
Benzo(a)anthracene	U	0.00092	0.0060	mg/kg		8270C-S	06/07/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	06/07/11	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	06/07/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	06/07/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	06/07/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	06/07/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	06/07/11	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	06/07/11	1
Fluorene	U	0.00055	0.0060	mg/kg		8270C-S	06/07/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	06/07/11	1
Naphthalene	U	0.00065	0.0060	mg/kg		8270C-S	06/07/11	1
Phenanthrene	U	0.00074	0.0060	mg/kg		8270C-S	06/07/11	1
Pyrene	U	0.00059	0.0060	mg/kg		8270C-S	06/07/11	1
1-Methylnaphthalene	U	0.00079	0.0060	mg/kg		8270C-S	06/07/11	1
2-Methylnaphthalene	0.0025	0.00059	0.0060	mg/kg	J	8270C-S	06/07/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	06/07/11	1
Surrogate Recovery								
Nitrobenzene-d5	47.6			% Rec.		8270C-S	06/07/11	1
2-Fluorobiphenyl	66.4			% Rec.		8270C-S	06/07/11	1
p-Terphenyl-d14	68.9			% Rec.		8270C-S	06/07/11	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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L519132-02 (PH) - 8.5@21.0c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L519132-01	WG539029	SAMP	Arsenic	R1715309	J3
	WG539029	SAMP	Barium	R1715309	V
	WG539029	SAMP	Cadmium	R1715309	J
	WG539029	SAMP	Silver	R1715309	P1
	WG539137	SAMP	Benzo(a)anthracene	R1714511	J
	WG539137	SAMP	Fluorene	R1714511	J
	WG539137	SAMP	Phenanthrene	R1714511	J
	WG539137	SAMP	1-Methylnaphthalene	R1714511	J
	WG539029	SAMP	Selenium	R1715309	J
L519132-02	WG539029	SAMP	Silver	R1715309	J
	WG538995	SAMP	Mercury	R1715830	J
	WG539137	SAMP	2-Methylnaphthalene	R1714511	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J3	The associated batch QC was outside the established quality control range for precision.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	(ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.

Qualifier Report Information

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

Definitions

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

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

Report Summary

Monday June 20, 2011

Report Number: L519772

Samples Received: 06/08/11

Client Project:

Description: Oxy 6971628 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
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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

June 20, 2011

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

Date Received : June 08, 2011
Description : Oxy 6971628 Background
Sample ID : BACKGROUND-1
Collected By : CJB
Collection Date : 06/03/11 11:00

ESC Sample # : L519772-01

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium,Hexavalent	U	0.71	2.0	mg/kg		3060A/7	06/14/11	1
Chromium,Trivalent	32.	0.17	2.0	mg/kg		Calc.	06/10/11	1
ORP	73.			mV		2580	06/15/11	1
pH	8.7			su		9045D	06/10/11	1
Sodium Adsorption Ratio	1.0					Calc.	06/10/11	1
Specific Conductance	120			umhos/cm		9050AMo	06/09/11	1
Mercury	0.031	0.0015	0.020	mg/kg		7471	06/10/11	1
Arsenic	4.7	0.32	1.0	mg/kg		6010B	06/10/11	1
Barium	280	0.050	0.25	mg/kg		6010B	06/10/11	1
Cadmium	1.6	0.040	0.25	mg/kg		6010B	06/10/11	1
Chromium	32.	0.085	0.50	mg/kg		6010B	06/10/11	1
Copper	21.	0.21	1.0	mg/kg		6010B	06/10/11	1
Lead	16.	0.090	0.25	mg/kg		6010B	06/10/11	1
Nickel	27.	0.26	1.0	mg/kg		6010B	06/10/11	1
Selenium	12.	0.32	1.0	mg/kg		6010B	06/10/11	1
Silver	U	0.16	0.50	mg/kg		6010B	06/10/11	1
Zinc	57.	0.34	1.5	mg/kg		6010B	06/10/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	06/09/11	5
Surrogate Recovery (70-130) a, a, a-Trifluorotoluene (FID)	103.			% Rec.		602/801	06/09/11	5
Benzene	U	0.0021	0.0050	mg/kg		8260B	06/09/11	5
Toluene	U	0.0017	0.025	mg/kg		8260B	06/09/11	5
Ethylbenzene	U	0.0016	0.0050	mg/kg		8260B	06/09/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	06/09/11	5
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	06/09/11	5
Dibromofluoromethane	107.			% Rec.		8260B	06/09/11	5
a, a, a-Trifluorotoluene	102.			% Rec.		8260B	06/09/11	5
4-Bromofluorobenzene	102.			% Rec.		8260B	06/09/11	5
TPH (GC/FID) High Fraction	1.1	0.77	4.0	mg/kg	J	3546/DR	06/12/11	1
Surrogate recovery(%) o-Terphenyl	66.3			% Rec.		3546/DR	06/12/11	1

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RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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L519772-01 (PH) - 8.7@20.6c



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REPORT OF ANALYSIS

June 20, 2011

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

ESC Sample # : L519772-01

Date Received : June 08, 2011
 Description : Oxy 6971628 Background

Site ID :

Sample ID : BACKGROUND-1

Project # :

Collected By : CJB
 Collection Date : 06/03/11 11:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	06/13/11	1
Acenaphthene	0.0037	0.00071	0.0060	mg/kg	J	8270C-S	06/13/11	1
Acenaphthylene	0.00082	0.00057	0.0060	mg/kg	J	8270C-S	06/13/11	1
Benzo(a)anthracene	0.0022	0.00092	0.0060	mg/kg	J	8270C-S	06/13/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	06/13/11	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	06/13/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	06/13/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	06/13/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	06/13/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	06/13/11	1
Fluoranthene	0.0018	0.0010	0.0060	mg/kg	J	8270C-S	06/13/11	1
Fluorene	0.0072	0.00055	0.0060	mg/kg		8270C-S	06/13/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	06/13/11	1
Naphthalene	0.020	0.00065	0.0060	mg/kg		8270C-S	06/13/11	1
Phenanthrene	0.019	0.00074	0.0060	mg/kg		8270C-S	06/13/11	1
Pyrene	0.0079	0.00059	0.0060	mg/kg		8270C-S	06/13/11	1
1-Methylnaphthalene	0.020	0.00079	0.0060	mg/kg		8270C-S	06/13/11	1
2-Methylnaphthalene	0.039	0.00059	0.0060	mg/kg		8270C-S	06/13/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	06/13/11	1
Surrogate Recovery								
Nitrobenzene-d5	49.5			% Rec.		8270C-S	06/13/11	1
2-Fluorobiphenyl	50.8			% Rec.		8270C-S	06/13/11	1
p-Terphenyl-d14	54.6			% Rec.		8270C-S	06/13/11	1

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REPORT OF ANALYSIS

June 20, 2011

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

ESC Sample # : L519772-02

Date Received : June 08, 2011
Description : Oxy 6971628 Background

Site ID :

Sample ID : BACKGROUND-2

Project # :

Collected By : CJB
Collection Date : 06/03/11 11:15

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	0.71	2.0	mg/kg		3060A/7	06/14/11	1
Chromium, Trivalent	31.	0.17	2.0	mg/kg		Calc.	06/10/11	1
ORP	100			mV		2580	06/20/11	1
pH	9.0			su		9045D	06/10/11	1
Sodium Adsorption Ratio	0.70					Calc.	06/10/11	1
Specific Conductance	230			umhos/cm		9050AMo	06/09/11	1
Mercury	0.023	0.0015	0.020	mg/kg		7471	06/10/11	1
Arsenic	20.	0.65	2.0	mg/kg		6010B	06/10/11	2
Barium	440	0.050	0.25	mg/kg		6010B	06/10/11	1
Cadmium	1.2	0.040	0.25	mg/kg		6010B	06/10/11	1
Chromium	31.	0.085	0.50	mg/kg		6010B	06/10/11	1
Copper	22.	0.21	1.0	mg/kg		6010B	06/10/11	1
Lead	19.	0.090	0.25	mg/kg		6010B	06/10/11	1
Nickel	29.	0.53	2.0	mg/kg		6010B	06/10/11	2
Selenium	13.	0.32	1.0	mg/kg		6010B	06/10/11	1
Silver	U	0.16	0.50	mg/kg		6010B	06/10/11	1
Zinc	56.	0.34	1.5	mg/kg		6010B	06/10/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	06/09/11	5
Surrogate Recovery (70-130) a, a, a-Trifluorotoluene (FID)	103.			% Rec.		602/801	06/09/11	5
Benzene	U	0.0021	0.0050	mg/kg		8260B	06/09/11	5
Toluene	U	0.0017	0.025	mg/kg		8260B	06/09/11	5
Ethylbenzene	U	0.0016	0.0050	mg/kg		8260B	06/09/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	06/09/11	5
Surrogate Recovery								
Toluene-d8	96.8			% Rec.		8260B	06/09/11	5
Dibromofluoromethane	111.			% Rec.		8260B	06/09/11	5
a, a, a-Trifluorotoluene	99.9			% Rec.		8260B	06/09/11	5
4-Bromofluorobenzene	105.			% Rec.		8260B	06/09/11	5
TPH (GC/FID) High Fraction	2.0	0.77	4.0	mg/kg	J	3546/DR	06/12/11	1
Surrogate recovery(%) o-Terphenyl	56.6			% Rec.		3546/DR	06/12/11	1

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REPORT OF ANALYSIS

June 20, 2011

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

Date Received : June 08, 2011
 Description : Oxy 6971628 Background
 Sample ID : BACKGROUND-2
 Collected By : CJB
 Collection Date : 06/03/11 11:15

ESC Sample # : L519772-02

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0076	0.060	mg/kg		8270C-S	06/14/11	10
Acenaphthene	0.034	0.0071	0.060	mg/kg	J	8270C-S	06/14/11	10
Acenaphthylene	U	0.0057	0.060	mg/kg		8270C-S	06/14/11	10
Benzo(a)anthracene	U	0.0092	0.060	mg/kg		8270C-S	06/14/11	10
Benzo(a)pyrene	U	0.0062	0.060	mg/kg		8270C-S	06/14/11	10
Benzo(b)fluoranthene	U	0.0082	0.060	mg/kg		8270C-S	06/14/11	10
Benzo(g,h,i)perylene	U	0.012	0.060	mg/kg		8270C-S	06/14/11	10
Benzo(k)fluoranthene	U	0.013	0.060	mg/kg		8270C-S	06/14/11	10
Chrysene	U	0.011	0.060	mg/kg		8270C-S	06/14/11	10
Dibenz(a,h)anthracene	U	0.011	0.060	mg/kg		8270C-S	06/14/11	10
Fluoranthene	0.015	0.010	0.060	mg/kg	J	8270C-S	06/14/11	10
Fluorene	0.072	0.0055	0.060	mg/kg		8270C-S	06/14/11	10
Indeno(1,2,3-cd)pyrene	U	0.012	0.060	mg/kg		8270C-S	06/14/11	10
Naphthalene	0.11	0.0065	0.060	mg/kg		8270C-S	06/14/11	10
Phenanthrene	0.18	0.0074	0.060	mg/kg		8270C-S	06/14/11	10
Pyrene	0.053	0.0059	0.060	mg/kg	J	8270C-S	06/14/11	10
1-Methylnaphthalene	0.14	0.0079	0.060	mg/kg		8270C-S	06/14/11	10
2-Methylnaphthalene	0.25	0.0059	0.060	mg/kg		8270C-S	06/14/11	10
2-Chloronaphthalene	U	0.0060	0.060	mg/kg		8270C-S	06/14/11	10
Surrogate Recovery								
Nitrobenzene-d5	50.0			% Rec.		8270C-S	06/14/11	10
2-Fluorobiphenyl	57.1			% Rec.		8270C-S	06/14/11	10
p-Terphenyl-d14	54.0			% Rec.		8270C-S	06/14/11	10

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L519772-02 (PH) - 9.0@20.9c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L519772-01	WG539462	SAMP	TPH (GC/FID) High Fraction	R1719949	J
	WG539568	SAMP	Acenaphthene	R1719432	J
	WG539568	SAMP	Acenaphthylene	R1719432	J
	WG539568	SAMP	Benzo(a)anthracene	R1719432	J
	WG539568	SAMP	Fluoranthene	R1719432	J
L519772-02	WG539462	SAMP	TPH (GC/FID) High Fraction	R1719949	J
	WG539568	SAMP	Acenaphthene	R1719432	J
	WG539568	SAMP	Fluoranthene	R1719432	J
	WG539568	SAMP	Pyrene	R1719432	J

