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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

Wednesday April 04, 2012

Report Number: L567223

Samples Received: 03/28/12

Client Project: WA-000546-0013-10

Description: MCDA Cuttings Managment

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 04, 2012

Date Received : March 28, 2012
 Description : MCDA Cuttings Managment
 Sample ID : MCDA-CMP-N SPRING
 Collected By : CJB
 Collection Date : 03/27/12 12:30

ESC Sample # : L567223-01

Site ID :

Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chloride	5.3	0.053	1.0	mg/l		9056	03/30/12	1
Sulfate	22.	0.40	5.0	mg/l		9056	03/30/12	1
Dissolved Solids	230	3.4	10.	mg/l		2540C	04/04/12	1
Mercury,Dissolved	U	0.000015	0.00020	mg/l		7470A	04/02/12	1
Arsenic,Dissolved	U	0.0066	0.020	mg/l		6010B	04/02/12	1
Barium,Dissolved	0.075	0.0018	0.0050	mg/l		6010B	04/02/12	1
Cadmium,Dissolved	U	0.0014	0.0050	mg/l		6010B	04/02/12	1
Chromium,Dissolved	U	0.0040	0.010	mg/l		6010B	04/02/12	1
Copper,Dissolved	0.0039	0.0016	0.020	mg/l	J	6010B	04/02/12	1
Lead,Dissolved	U	0.0017	0.0050	mg/l		6010B	04/02/12	1
Nickel,Dissolved	U	0.0052	0.020	mg/l		6010B	04/02/12	1
Selenium,Dissolved	U	0.0065	0.020	mg/l		6010B	04/02/12	1
Silver,Dissolved	0.0063	0.0038	0.010	mg/l	J	6010B	04/02/12	1
Zinc,Dissolved	U	0.010	0.030	mg/l		6010B	04/02/12	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		8015D/G	03/29/12	1
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	99.8			% Rec.		8015D/G	03/29/12	1
Benzene	U	0.00018	0.0010	mg/l		8260B	03/29/12	1
Toluene	U	0.00016	0.0050	mg/l		8260B	03/29/12	1
Ethylbenzene	U	0.00027	0.0010	mg/l		8260B	03/29/12	1
Total Xylenes	U	0.00086	0.0030	mg/l		8260B	03/29/12	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	03/29/12	1
Dibromofluoromethane	108.			% Rec.		8260B	03/29/12	1
a,a,a-Trifluorotoluene	97.9			% Rec.		8260B	03/29/12	1
4-Bromofluorobenzene	101.			% Rec.		8260B	03/29/12	1
TPH (GC/FID) High Fraction	0.10	0.025	0.10	mg/l		3511/80	04/03/12	1
Surrogate recovery(%) o-Terphenyl	98.7			% Rec.		3511/80	04/03/12	1

U = ND (Not Detected)
 MDL = Minimum Detection Limit = LOD
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 Note:

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Reported: 04/04/12 10:02 Printed: 04/04/12 10:08

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L567223-01	WG585628	SAMP	Copper,Dissolved	R2101253	J
	WG585628	SAMP	Silver,Dissolved	R2101253	J

Attachment B
Explanation of QC Qualifier Codes

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

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

Report Summary

Tuesday May 22, 2012

Report Number: L574977

Samples Received: 05/12/12

Client Project: WA-000546-0013-10

Description: CMP Water 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

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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

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REPORT OF ANALYSIS

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

May 22, 2012

Date Received : May 12, 2012
 Description : CMP Water Sampling
 Sample ID : 609-14-SP-051112
 Collected By : CJB
 Collection Date : 05/11/12 11:45

ESC Sample # : L574977-01

Site ID : 609-14/MCDA1697-15-01

Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chloride	56.	0.053	1.0	mg/l		9056	05/16/12	1
Sulfate	100	0.81	10.	mg/l		9056	05/16/12	2
Dissolved Solids	540	3.4	10.	mg/l		2540C	05/18/12	1
Mercury,Dissolved	U	0.000015	0.00020	mg/l		7470A	05/16/12	1
Arsenic,Dissolved	U	0.0066	0.020	mg/l		6010B	05/17/12	1
Barium,Dissolved	0.10	0.0018	0.0050	mg/l		6010B	05/17/12	1
Cadmium,Dissolved	U	0.0014	0.0050	mg/l		6010B	05/17/12	1
Chromium,Dissolved	U	0.0040	0.010	mg/l		6010B	05/17/12	1
Copper,Dissolved	0.0020	0.0016	0.020	mg/l	J	6010B	05/17/12	1
Lead,Dissolved	0.0066	0.0017	0.0050	mg/l		6010B	05/17/12	1
Nickel,Dissolved	U	0.0052	0.020	mg/l		6010B	05/17/12	1
Selenium,Dissolved	0.033	0.0065	0.020	mg/l		6010B	05/17/12	1
Silver,Dissolved	0.0041	0.0038	0.010	mg/l	J	6010B	05/17/12	1
Zinc,Dissolved	0.010	0.010	0.030	mg/l	J	6010B	05/17/12	1
TPH (GC/FID) Low Fraction	0.070	0.040	0.10	mg/l	J	8015D/G	05/14/12	1
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	109.			% Rec.		8015D/G	05/14/12	1
Benzene	U	0.00018	0.0010	mg/l		8260B	05/14/12	1
Toluene	U	0.00016	0.0050	mg/l		8260B	05/14/12	1
Ethylbenzene	U	0.00027	0.0010	mg/l		8260B	05/14/12	1
Total Xylenes	U	0.00086	0.0030	mg/l		8260B	05/14/12	1
Surrogate Recovery								
Toluene-d8	97.7			% Rec.		8260B	05/14/12	1
Dibromofluoromethane	99.8			% Rec.		8260B	05/14/12	1
a,a,a-Trifluorotoluene	104.			% Rec.		8260B	05/14/12	1
4-Bromofluorobenzene	115.			% Rec.		8260B	05/14/12	1
TPH (GC/FID) High Fraction	U	0.025	0.10	mg/l		3511/80	05/18/12	1
Surrogate recovery(%) o-Terphenyl	87.3			% Rec.		3511/80	05/18/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

Note:

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Reported: 05/22/12 09:27 Printed: 05/22/12 09:27



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REPORT OF ANALYSIS

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

May 22, 2012

Date Received : May 12, 2012
 Description : CMP Water Sampling
 Sample ID : MCDA-SPRING-051112
 Collected By : CJB
 Collection Date : 05/11/12 11:00

ESC Sample # : L574977-02
 Site ID : 609-14/MCDA1697-15-01
 Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chloride	2.9	0.053	1.0	mg/l		9056	05/16/12	1
Sulfate	50.	0.40	5.0	mg/l		9056	05/16/12	1
Dissolved Solids	330	3.4	10.	mg/l		2540C	05/18/12	1
Mercury,Dissolved	U	0.000015	0.00020	mg/l		7470A	05/16/12	1
Arsenic,Dissolved	0.017	0.0066	0.020	mg/l	J	6010B	05/17/12	1
Barium,Dissolved	0.071	0.0018	0.0050	mg/l		6010B	05/17/12	1
Cadmium,Dissolved	U	0.0014	0.0050	mg/l		6010B	05/17/12	1
Chromium,Dissolved	U	0.0040	0.010	mg/l		6010B	05/17/12	1
Copper,Dissolved	U	0.0016	0.020	mg/l		6010B	05/17/12	1
Lead,Dissolved	U	0.0017	0.0050	mg/l		6010B	05/17/12	1
Nickel,Dissolved	U	0.0052	0.020	mg/l		6010B	05/17/12	1
Selenium,Dissolved	U	0.0065	0.020	mg/l		6010B	05/17/12	1
Silver,Dissolved	U	0.0038	0.010	mg/l		6010B	05/17/12	1
Zinc,Dissolved	U	0.010	0.030	mg/l		6010B	05/17/12	1
TPH (GC/FID) Low Fraction	0.27	0.040	0.10	mg/l		8015D/G	05/14/12	1
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	107.			% Rec.		8015D/G	05/14/12	1
Benzene	0.00075	0.00018	0.0010	mg/l	J	8260B	05/14/12	1
Toluene	U	0.00016	0.0050	mg/l		8260B	05/14/12	1
Ethylbenzene	0.0022	0.00027	0.0010	mg/l		8260B	05/14/12	1
Total Xylenes	0.016	0.00086	0.0030	mg/l		8260B	05/14/12	1
Surrogate Recovery Toluene-d8	98.9			% Rec.		8260B	05/14/12	1
Dibromofluoromethane	101.			% Rec.		8260B	05/14/12	1
a,a,a-Trifluorotoluene	106.			% Rec.		8260B	05/14/12	1
4-Bromofluorobenzene	115.			% Rec.		8260B	05/14/12	1
TPH (GC/FID) High Fraction	U	0.025	0.10	mg/l		3511/80	05/18/12	1
Surrogate recovery(%) o-Terphenyl	85.5			% Rec.		3511/80	05/18/12	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

May 22, 2012

Date Received : May 12, 2012
 Description : CMP Water Sampling
 Sample ID : 697-15-01-SPRING-051112
 Collected By : CJB
 Collection Date : 05/11/12 12:25

ESC Sample # : L574977-03

Site ID : 609-14/MCDA1697-15-01

Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chloride	10.	0.053	1.0	mg/l		9056	05/16/12	1
Sulfate	25.	0.40	5.0	mg/l		9056	05/16/12	1
Dissolved Solids	350	3.4	10.	mg/l		2540C	05/18/12	1
Mercury,Dissolved	U	0.000015	0.00020	mg/l		7470A	05/16/12	1
Arsenic,Dissolved	0.016	0.0066	0.020	mg/l	J	6010B	05/21/12	1
Barium,Dissolved	0.074	0.0018	0.0050	mg/l		6010B	05/21/12	1
Cadmium,Dissolved	0.0021	0.0014	0.0050	mg/l	J	6010B	05/21/12	1
Chromium,Dissolved	U	0.0040	0.010	mg/l		6010B	05/21/12	1
Copper,Dissolved	0.0031	0.0016	0.020	mg/l	J	6010B	05/21/12	1
Lead,Dissolved	0.0073	0.0017	0.0050	mg/l		6010B	05/21/12	1
Nickel,Dissolved	U	0.0052	0.020	mg/l		6010B	05/21/12	1
Selenium,Dissolved	0.0079	0.0065	0.020	mg/l	J	6010B	05/21/12	1
Silver,Dissolved	U	0.0038	0.010	mg/l		6010B	05/21/12	1
Zinc,Dissolved	U	0.010	0.030	mg/l		6010B	05/21/12	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		8015D/G	05/14/12	1
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	109.			% Rec.		8015D/G	05/14/12	1
Benzene	U	0.00018	0.0010	mg/l		8260B	05/14/12	1
Toluene	U	0.00016	0.0050	mg/l		8260B	05/14/12	1
Ethylbenzene	U	0.00027	0.0010	mg/l		8260B	05/14/12	1
Total Xylenes	U	0.00086	0.0030	mg/l		8260B	05/14/12	1
Surrogate Recovery								
Toluene-d8	99.2			% Rec.		8260B	05/14/12	1
Dibromofluoromethane	100.			% Rec.		8260B	05/14/12	1
a,a,a-Trifluorotoluene	106.			% Rec.		8260B	05/14/12	1
4-Bromofluorobenzene	120.			% Rec.		8260B	05/14/12	1
TPH (GC/FID) High Fraction	U	0.025	0.10	mg/l		3511/80	05/18/12	1
Surrogate recovery(%) o-Terphenyl	87.5			% Rec.		3511/80	05/18/12	1

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L574977-01	WG593163	SAMP	Copper, Dissolved	R2174853	J
	WG593163	SAMP	Silver, Dissolved	R2174853	J
	WG593163	SAMP	Zinc, Dissolved	R2174853	J
	WG592500	SAMP	TPH (GC/FID) Low Fraction	R2168713	J
L574977-02	WG593163	SAMP	Arsenic, Dissolved	R2174853	J
	WG592491	SAMP	Benzene	R2170873	J
L574977-03	WG593229	SAMP	Arsenic, Dissolved	R2179459	J
	WG593229	SAMP	Cadmium, Dissolved	R2179459	J
	WG593229	SAMP	Copper, Dissolved	R2179459	J
	WG593229	SAMP	Selenium, Dissolved	R2179459	J

Attachment B
Explanation of QC Qualifier Codes

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

Qualifier Report Information

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- 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
05/22/12 at 09:27:33

TSR Signing Reports: 134
R5 - Desired TAT

Log BTEX by 8260 unless otherwise noted

Sample: L574977-01 Account: OXYGJCO Received: 05/12/12 09:00 Due Date: 05/18/12 00:00 RPT Date: 05/22/12 09:27

Sample: L574977-02 Account: OXYGJCO Received: 05/12/12 09:00 Due Date: 05/18/12 00:00 RPT Date: 05/22/12 09:27

Sample: L574977-03 Account: OXYGJCO Received: 05/12/12 09:00 Due Date: 05/18/12 00:00 RPT Date: 05/22/12 09:27



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

Report Summary

Wednesday August 15, 2012

Report Number: L588968

Samples Received: 08/08/12

Client Project: WA-000346-0013-10

Description: CDA Quarterly Water Sampling

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Entire Report Reviewed By:

Mark W. Beasley , ESC Representative

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REPORT OF ANALYSIS

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

August 15, 2012

Date Received : August 08, 2012
 Description : CDA Quarterly Water Sampling
 Sample ID : 609-14-STOCKPOND
 Collected By : CJB
 Collection Date : 08/07/12 09:56

ESC Sample # : L588968-01

Site ID : CMA

Project # : WA-000346-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chloride	50.	0.053	1.0	mg/l		9056	08/09/12	1
Sulfate	92.	0.40	5.0	mg/l		9056	08/09/12	1
Dissolved Solids	600	3.4	10.	mg/l		2540C	08/15/12	1
Mercury,Dissolved	U	0.000015	0.00020	mg/l		7470A	08/13/12	1
Arsenic,Dissolved	U	0.0066	0.020	mg/l		6010B	08/12/12	1
Barium,Dissolved	0.13	0.0018	0.0050	mg/l		6010B	08/12/12	1
Cadmium,Dissolved	U	0.0014	0.0050	mg/l		6010B	08/12/12	1
Chromium,Dissolved	U	0.0040	0.010	mg/l		6010B	08/12/12	1
Copper,Dissolved	U	0.0016	0.020	mg/l		6010B	08/12/12	1
Lead,Dissolved	U	0.0017	0.0050	mg/l		6010B	08/12/12	1
Nickel,Dissolved	U	0.0052	0.020	mg/l		6010B	08/12/12	1
Selenium,Dissolved	0.020	0.0065	0.020	mg/l	J	6010B	08/12/12	1
Silver,Dissolved	U	0.0038	0.010	mg/l		6010B	08/12/12	1
Zinc,Dissolved	U	0.010	0.030	mg/l		6010B	08/12/12	1
TPH (GC/FID) Low Fraction	U	0.031	0.10	mg/l		8015D/G	08/10/12	1
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	109.			% Rec.		8015D/G	08/10/12	1
Benzene	U	0.00033	0.0010	mg/l		8260B	08/09/12	1
Toluene	U	0.00078	0.0050	mg/l		8260B	08/09/12	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	08/09/12	1
Total Xylenes	U	0.0011	0.0030	mg/l		8260B	08/09/12	1
Surrogate Recovery Toluene-d8	99.0			% Rec.		8260B	08/09/12	1
Dibromofluoromethane	102.			% Rec.		8260B	08/09/12	1
a,a,a-Trifluorotoluene	106.			% Rec.		8260B	08/09/12	1
4-Bromofluorobenzene	101.			% Rec.		8260B	08/09/12	1
TPH (GC/FID) High Fraction	0.22	0.025	0.10	mg/l		3511/80	08/09/12	1
Surrogate recovery(%) o-Terphenyl	94.1			% Rec.		3511/80	08/09/12	1

U = ND (Not Detected)
 MDL = Minimum Detection Limit = LOD = TRRP SDL
 RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
 Note:

The reported analytical results relate only to the sample submitted.
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Reported: 08/15/12 10:16 Printed: 08/15/12 10:16



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REPORT OF ANALYSIS

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

August 15, 2012

Date Received : August 08, 2012
 Description : CDA Quarterly Water Sampling
 Sample ID : MCDA-CREEK
 Collected By : CJB
 Collection Date : 08/07/12 11:12

ESC Sample # : L588968-02

Site ID : CMA

Project # : WA-000346-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chloride	8.9	0.053	1.0	mg/l		9056	08/09/12	1
Sulfate	17.	0.40	5.0	mg/l		9056	08/09/12	1
Dissolved Solids	370	3.4	10.	mg/l		2540C	08/15/12	1
Mercury,Dissolved	U	0.000015	0.00020	mg/l		7470A	08/13/12	1
Arsenic,Dissolved	U	0.0066	0.020	mg/l		6010B	08/12/12	1
Barium,Dissolved	0.097	0.0018	0.0050	mg/l		6010B	08/12/12	1
Cadmium,Dissolved	U	0.0014	0.0050	mg/l		6010B	08/12/12	1
Chromium,Dissolved	U	0.0040	0.010	mg/l		6010B	08/12/12	1
Copper,Dissolved	U	0.0016	0.020	mg/l		6010B	08/12/12	1
Lead,Dissolved	U	0.0017	0.0050	mg/l		6010B	08/12/12	1
Nickel,Dissolved	U	0.0052	0.020	mg/l		6010B	08/12/12	1
Selenium,Dissolved	0.013	0.0065	0.020	mg/l	J	6010B	08/12/12	1
Silver,Dissolved	U	0.0038	0.010	mg/l		6010B	08/12/12	1
Zinc,Dissolved	U	0.010	0.030	mg/l		6010B	08/12/12	1
TPH (GC/FID) Low Fraction	U	0.031	0.10	mg/l		8015D/G	08/10/12	1
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	109.			% Rec.		8015D/G	08/10/12	1
Benzene	U	0.00033	0.0010	mg/l		8260B	08/09/12	1
Toluene	0.0010	0.00078	0.0050	mg/l	J	8260B	08/09/12	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	08/09/12	1
Total Xylenes	U	0.0011	0.0030	mg/l		8260B	08/09/12	1
Surrogate Recovery Toluene-d8	100.			% Rec.		8260B	08/09/12	1
Dibromofluoromethane	100.			% Rec.		8260B	08/09/12	1
a,a,a-Trifluorotoluene	105.			% Rec.		8260B	08/09/12	1
4-Bromofluorobenzene	101.			% Rec.		8260B	08/09/12	1
TPH (GC/FID) High Fraction	U	0.025	0.10	mg/l		3511/80	08/09/12	1
Surrogate recovery(%) o-Terphenyl	89.9			% Rec.		3511/80	08/09/12	1

U = ND (Not Detected)
 MDL = Minimum Detection Limit = LOD = TRRP SDL
 RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

Note:
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Reported: 08/15/12 10:16 Printed: 08/15/12 10:16

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L588968-01	WG607386	SAMP	Selenium,Dissolved	R2299533	J
L588968-02	WG607386	SAMP	Selenium,Dissolved	R2299533	J
	WG606888	SAMP	Toluene	R2297413	J

Attachment B
Explanation of QC Qualifier Codes

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

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
08/15/12 at 10:16:50

TSR Signing Reports: 134
R5 - Desired TAT

Log BTEX by 8260 unless otherwise noted

Sample: L588968-01 Account: OXYGJCO Received: 08/08/12 09:00 Due Date: 08/15/12 00:00 RPT Date: 08/15/12 10:16

Sample: L588968-02 Account: OXYGJCO Received: 08/08/12 09:00 Due Date: 08/15/12 00:00 RPT Date: 08/15/12 10:16



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

Report Summary

Thursday October 18, 2012

Report Number: L600348

Samples Received: 10/11/12

Client Project:

Description: CMA Water 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, IA Lab #364

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REPORT OF ANALYSIS

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

October 18, 2012

Date Received : October 11, 2012
 Description : CMA Water Sampling
 Sample ID : MCDA-101012
 Collected By : CJB
 Collection Date : 10/10/12 11:30

ESC Sample # : L600348-01

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chloride	14.	0.053	1.0	mg/l		9056	10/12/12	1
Sulfate	18.	0.40	5.0	mg/l		9056	10/12/12	1
Dissolved Solids	430	3.4	10.	mg/l		2540C	10/17/12	1
Mercury, Dissolved	U	0.000015	0.00020	mg/l		7470A	10/17/12	1
Arsenic, Dissolved	U	0.0066	0.020	mg/l		6010B	10/17/12	1
Barium, Dissolved	0.13	0.0018	0.0050	mg/l		6010B	10/17/12	1
Cadmium, Dissolved	U	0.0014	0.0050	mg/l		6010B	10/17/12	1
Chromium, Dissolved	U	0.0040	0.010	mg/l		6010B	10/17/12	1
Copper, Dissolved	0.0057	0.0016	0.020	mg/l	J	6010B	10/17/12	1
Lead, Dissolved	U	0.0017	0.0050	mg/l		6010B	10/17/12	1
Nickel, Dissolved	U	0.0052	0.020	mg/l		6010B	10/17/12	1
Selenium, Dissolved	U	0.0065	0.020	mg/l		6010B	10/17/12	1
Silver, Dissolved	U	0.0038	0.010	mg/l		6010B	10/17/12	1
Zinc, Dissolved	U	0.010	0.030	mg/l		6010B	10/17/12	1
TPH (GC/FID) Low Fraction	U	0.031	0.10	mg/l		8015D/G	10/14/12	1
Surrogate Recovery-% a, a, a-Trifluorotoluene (FID)	99.6			% Rec.		8015D/G	10/14/12	1
Benzene	U	0.00033	0.0010	mg/l		8260B	10/15/12	1
Toluene	U	0.00078	0.0050	mg/l		8260B	10/15/12	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	10/15/12	1
Total Xylenes	U	0.0011	0.0030	mg/l		8260B	10/15/12	1
Surrogate Recovery Toluene-d8	103.			% Rec.		8260B	10/15/12	1
Dibromofluoromethane	102.			% Rec.		8260B	10/15/12	1
a, a, a-Trifluorotoluene	102.			% Rec.		8260B	10/15/12	1
4-Bromofluorobenzene	99.6			% Rec.		8260B	10/15/12	1
TPH (GC/FID) High Fraction	0.34	0.025	0.10	mg/l		3511/80	10/15/12	1
Surrogate recovery(%) o-Terphenyl	99.4			% Rec.		3511/80	10/15/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 10/18/12 10:30 Printed: 10/18/12 10:30

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L600348-01	WG618325	SAMP	Copper, Dissolved	R2396318	J

Attachment B
Explanation of QC Qualifier Codes

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

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
10/18/12 at 10:30:47

TSR Signing Reports: 134
R5 - Desired TAT

Log BTEX by 8260 unless otherwise noted

Sample: L600348-01 Account: OXYGJCO Received: 10/11/12 09:00 Due Date: 10/18/12 00:00 RPT Date: 10/18/12 10:30



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

Report Summary

Friday March 29, 2013

Report Number: L626256

Samples Received: 03/21/13

Client Project: WA-000546-0013-10TTO

Description: CMA Water

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, IA Lab #364

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REPORT OF ANALYSIS

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

March 29, 2013

Date Received : March 21, 2013
 Description : CMA Water
 Sample ID : MCDA-CREEK
 Collected By : CJB
 Collection Date : 03/20/13 10:45

ESC Sample # : L626256-01
 Site ID : MCDA
 Project # : WA-000546-0013-10TTO

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	9.1	1.0	mg/l	9056	03/27/13	1
Sulfate	33.	5.0	mg/l	9056	03/28/13	1
Dissolved Solids	300	10.	mg/l	2540 C-2011	03/28/13	1
Mercury, Dissolved	BDL	0.00020	mg/l	7470A	03/27/13	1
Arsenic, Dissolved	BDL	0.020	mg/l	6010B	03/29/13	1
Barium, Dissolved	0.061	0.0050	mg/l	6010B	03/29/13	1
Cadmium, Dissolved	BDL	0.0050	mg/l	6010B	03/29/13	1
Chromium, Dissolved	BDL	0.010	mg/l	6010B	03/29/13	1
Copper, Dissolved	BDL	0.020	mg/l	6010B	03/29/13	1
Lead, Dissolved	BDL	0.0050	mg/l	6010B	03/29/13	1
Nickel, Dissolved	BDL	0.020	mg/l	6010B	03/29/13	1
Selenium, Dissolved	BDL	0.020	mg/l	6010B	03/29/13	1
Silver, Dissolved	BDL	0.010	mg/l	6010B	03/29/13	1
Zinc, Dissolved	BDL	0.030	mg/l	6010B	03/29/13	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	8015D/GRO	03/24/13	1
Surrogate Recovery-% a, a, a-Trifluorotoluene (FID)	103.		% Rec.	8015D/GRO	03/24/13	1
Benzene	BDL	0.0010	mg/l	8260B	03/26/13	1
Toluene	BDL	0.0050	mg/l	8260B	03/26/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	03/26/13	1
Total Xylenes	BDL	0.0030	mg/l	8260B	03/26/13	1
Surrogate Recovery						
Toluene-d8	98.9		% Rec.	8260B	03/26/13	1
Dibromofluoromethane	97.0		% Rec.	8260B	03/26/13	1
a, a, a-Trifluorotoluene	100.		% Rec.	8260B	03/26/13	1
4-Bromofluorobenzene	99.2		% Rec.	8260B	03/26/13	1
TPH (GC/FID) High Fraction	BDL	0.10	mg/l	3511/8015	03/25/13	1
Surrogate recovery(%) o-Terphenyl	108.		% Rec.	3511/8015	03/25/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)
 Note:

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Reported: 03/29/13 11:37 Printed: 03/29/13 11:37

Summary of Remarks For Samples Printed
03/29/13 at 11:37:53

TSR Signing Reports: 134
R5 - Desired TAT

Log BTEX by 8260 unless otherwise noted

Sample: L626256-01 Account: OXYGJCO Received: 03/21/13 09:00 Due Date: 03/28/13 00:00 RPT Date: 03/29/13 11:37



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Tax I.D. 62-0814289

Est. 1970

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

Report Summary

Tuesday August 20, 2013

Report Number: L651788

Samples Received: 08/14/13

Client Project: WA-000546-0013-10

Description: MCDA

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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, IA Lab #364

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REPORT OF ANALYSIS

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

August 20, 2013

Date Received : August 14, 2013
 Description : CDA Quarterly Water Sampling
 Sample ID : MCDA
 Collected By : C. Bak
 Collection Date : 08/13/13 12:10

ESC Sample # : L651788-01
 Site ID : CDA'S
 Project # : WA-000546-0013-10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	13.	1.0	mg/l	9056	08/16/13	1
Sulfate	34.	5.0	mg/l	9056	08/16/13	1
Dissolved Solids	390	10.	mg/l	2540 C-2011	08/19/13	1
Mercury,Dissolved	BDL	0.00020	mg/l	7470A	08/20/13	1
Arsenic,Dissolved	BDL	0.020	mg/l	6010B	08/19/13	1
Barium,Dissolved	0.14	0.0050	mg/l	6010B	08/19/13	1
Cadmium,Dissolved	BDL	0.0050	mg/l	6010B	08/19/13	1
Chromium,Dissolved	BDL	0.010	mg/l	6010B	08/19/13	1
Copper,Dissolved	BDL	0.020	mg/l	6010B	08/19/13	1
Lead,Dissolved	BDL	0.0050	mg/l	6010B	08/19/13	1
Nickel,Dissolved	BDL	0.020	mg/l	6010B	08/19/13	1
Selenium,Dissolved	BDL	0.020	mg/l	6010B	08/19/13	1
Silver,Dissolved	BDL	0.010	mg/l	6010B	08/19/13	1
Zinc,Dissolved	BDL	0.030	mg/l	6010B	08/19/13	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	8015D/GRO	08/16/13	1
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	102.		% Rec.	8015D/GRO	08/16/13	1
Benzene	BDL	0.0010	mg/l	8260B	08/15/13	1
Toluene	BDL	0.0050	mg/l	8260B	08/15/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	08/15/13	1
Total Xylenes	BDL	0.0030	mg/l	8260B	08/15/13	1
Surrogate Recovery Toluene-d8	103.		% Rec.	8260B	08/15/13	1
Dibromofluoromethane	97.6		% Rec.	8260B	08/15/13	1
a,a,a-Trifluorotoluene	101.		% Rec.	8260B	08/15/13	1
4-Bromofluorobenzene	100.		% Rec.	8260B	08/15/13	1
TPH (GC/FID) High Fraction	0.26	0.10	mg/l	3511/8015	08/16/13	1
Surrogate recovery(%) o-Terphenyl	88.0		% Rec.	3511/8015	08/16/13	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: 08/20/13 14:46 Printed: 08/20/13 14:46

Summary of Remarks For Samples Printed
08/20/13 at 14:46:22

TSR Signing Reports: 134
R5 - Desired TAT

Log BTEX by 8260 unless otherwise noted

Sample: L651788-01 Account: OXYGJCO Received: 08/14/13 09:30 Due Date: 08/21/13 00:00 RPT Date: 08/20/13 14:46