



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

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

July 11, 2011

Date Received : July 01, 2011
Description : Hawkins 10-9
Sample ID : BG-NB-EAST 1FT
Collected By : Travis Brophy
Collection Date : 06/30/11 07:45

ESC Sample # : L524086-10
Site ID :
Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	07/08/11	1
Acenaphthene	U	0.00071	0.0060	mg/kg		8270C-S	07/08/11	1
Acenaphthylene	U	0.00057	0.0060	mg/kg		8270C-S	07/08/11	1
Benzo(a)anthracene	U	0.00092	0.0060	mg/kg		8270C-S	07/08/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	07/08/11	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	07/08/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	07/08/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	07/08/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	07/08/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	07/08/11	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	07/08/11	1
Fluorene	U	0.00055	0.0060	mg/kg		8270C-S	07/08/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	07/08/11	1
Naphthalene	U	0.00065	0.0060	mg/kg		8270C-S	07/08/11	1
Phenanthrene	U	0.00074	0.0060	mg/kg		8270C-S	07/08/11	1
Pyrene	U	0.00059	0.0060	mg/kg		8270C-S	07/08/11	1
1-Methylnaphthalene	U	0.00079	0.0060	mg/kg		8270C-S	07/08/11	1
2-Methylnaphthalene	U	0.00059	0.0060	mg/kg		8270C-S	07/08/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	07/08/11	1
Surrogate Recovery								
Nitrobenzene-d5	75.3			% Rec.		8270C-S	07/08/11	1
2-Fluorobiphenyl	67.9			% Rec.		8270C-S	07/08/11	1
p-Terphenyl-d14	116.			% Rec.		8270C-S	07/08/11	1

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

The reported analytical results relate only to the sample submitted.
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Reported: 07/11/11 14:44 Printed: 07/11/11 14:44
L524086-10 (PH) - 7.3@20.8c



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REPORT OF ANALYSIS

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

July 11, 2011

Date Received : July 01, 2011
 Description : Hawkins 10-9
 Sample ID : BG-NE 1FT
 Collected By : Travis Brophy
 Collection Date : 06/30/11 07:55

ESC Sample # : L524086-11
 Site ID :
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	15.	7.1	20.	mg/kg	J	3060A/7	07/08/11	10
Chromium, Trivalent	U	0.17	0.50	mg/kg		Calc.	07/05/11	1
ORP	170			mV		2580	07/06/11	1
pH	6.9			su		9045D	07/08/11	1
Sodium Adsorption Ratio	0.88					Calc.	07/03/11	1
Specific Conductance	66.			umhos/cm		9050AMo	07/06/11	1
Mercury	0.012	0.0015	0.020	mg/kg	J	7471	07/05/11	1
Arsenic	1.5	0.32	1.0	mg/kg		6010B	07/05/11	1
Barium	140	0.050	0.25	mg/kg		6010B	07/05/11	1
Cadmium	0.10	0.040	0.25	mg/kg	J	6010B	07/05/11	1
Chromium	13.	0.085	0.50	mg/kg		6010B	07/05/11	1
Copper	12.	0.21	1.0	mg/kg		6010B	07/05/11	1
Lead	9.9	0.090	0.25	mg/kg		6010B	07/05/11	1
Nickel	14.	0.26	1.0	mg/kg		6010B	07/05/11	1
Selenium	U	0.32	1.0	mg/kg		6010B	07/05/11	1
Silver	U	0.16	0.50	mg/kg		6010B	07/05/11	1
Zinc	44.	0.34	1.5	mg/kg		6010B	07/05/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	07/02/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (FID)	92.7			% Rec.		602/801	07/02/11	5
Benzene	U	0.0021	0.0050	mg/kg		8260B	07/05/11	5
Toluene	U	0.0017	0.025	mg/kg		8260B	07/05/11	5
Ethylbenzene	U	0.0016	0.0050	mg/kg		8260B	07/05/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	07/05/11	5
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	07/05/11	5
Dibromofluoromethane	110.			% Rec.		8260B	07/05/11	5
a,a,a-Trifluorotoluene	100.			% Rec.		8260B	07/05/11	5
4-Bromofluorobenzene	90.6			% Rec.		8260B	07/05/11	5
TPH (GC/FID) High Fraction	3.3	0.77	4.0	mg/kg	J	3546/DR	07/08/11	1
Surrogate recovery(%) o-Terphenyl	79.0			% Rec.		3546/DR	07/08/11	1

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 L524086-11 (PH) - 6.9@21.1c



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

July 11, 2011

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ESC Sample # : L524086-11
 Site ID :
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Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	07/08/11	1
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Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	07/08/11	1
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Naphthalene	U	0.00065	0.0060	mg/kg		8270C-S	07/08/11	1
Phenanthrene	0.0015	0.00074	0.0060	mg/kg	J	8270C-S	07/08/11	1
Pyrene	U	0.00059	0.0060	mg/kg		8270C-S	07/08/11	1
1-Methylnaphthalene	U	0.00079	0.0060	mg/kg		8270C-S	07/08/11	1
2-Methylnaphthalene	U	0.00059	0.0060	mg/kg		8270C-S	07/08/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	07/08/11	1
Surrogate Recovery								
Nitrobenzene-d5	78.4			% Rec.		8270C-S	07/08/11	1
2-Fluorobiphenyl	74.5			% Rec.		8270C-S	07/08/11	1
p-Terphenyl-d14	116.			% Rec.		8270C-S	07/08/11	1

U = ND (Not Detected)
 MDL = Minimum Detection Limit = LOD
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 L524086-11 (PH) - 6.9@21.1c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L524086-01	WG544176	SAMP	TPH (GC/FID) High Fraction	R1751991	J
	WG544374	SAMP	Chromium,Hexavalent	R1753009	J
	WG543849	SAMP	Mercury	R1750024	J
L524086-02	WG543769	SAMP	TPH (GC/FID) Low Fraction	R1748629	J5J3
	WG543936	SAMP	Cadmium	R1749731	J
	WG543936	SAMP	Selenium	R1749731	J
	WG544176	SAMP	TPH (GC/FID) High Fraction	R1751991	J
	WG544374	SAMP	Chromium,Hexavalent	R1753009	J
L524086-03	WG543850	SAMP	Mercury	R1750025	J
	WG544176	SAMP	TPH (GC/FID) High Fraction	R1751991	J
	WG544374	SAMP	Chromium,Hexavalent	R1753009	J
	WG543850	SAMP	Mercury	R1750025	J
	WG544239	SAMP	Benzo(a)anthracene	R1752849	J
	WG544239	SAMP	Benzo(a)pyrene	R1752849	JV3
	WG544239	SAMP	Benzo(b)fluoranthene	R1752849	JV3
L524086-04	WG544239	SAMP	Phenanthrene	R1752849	J
	WG544176	SAMP	TPH (GC/FID) High Fraction	R1751991	J
	WG544374	SAMP	Chromium,Hexavalent	R1753009	J
	WG543850	SAMP	Mercury	R1750025	J
	WG544239	SAMP	Phenanthrene	R1752849	J
	WG544239	SAMP	Pyrene	R1752849	J
	WG544239	SAMP	p-Terphenyl-d14	R1752849	J1
L524086-05	WG543936	SAMP	Cadmium	R1749731	J
	WG543936	SAMP	Selenium	R1749731	J
	WG544374	SAMP	Chromium,Hexavalent	R1753009	J
	WG543850	SAMP	Mercury	R1750025	J
	WG544239	SAMP	Benzo(a)anthracene	R1752849	J
	WG544239	SAMP	Phenanthrene	R1752849	J
	WG544239	SAMP	p-Terphenyl-d14	R1752849	J1
	WG543936	SAMP	Barium	R1749731	J6
L524086-06	WG543936	SAMP	Cadmium	R1749731	JP1
	WG543936	SAMP	Selenium	R1749731	JP1
	WG544374	SAMP	Chromium,Hexavalent	R1753009	J
	WG543850	SAMP	Mercury	R1750025	J
	WG544239	SAMP	Benzo(a)anthracene	R1752849	J
	WG543935	SAMP	Selenium	R1749575	O
	WG544374	SAMP	Chromium,Hexavalent	R1753009	J
L524086-07	WG543850	SAMP	Mercury	R1750025	J
	WG543935	SAMP	Selenium	R1749575	J
	WG544374	SAMP	Chromium,Hexavalent	R1753009	J
L524086-08	WG543850	SAMP	Mercury	R1750025	J
	WG543935	SAMP	Selenium	R1749575	J
	WG543850	SAMP	Mercury	R1750025	J
L524086-09	WG544063	SAMP	Cadmium	R1750871	J
	WG543850	SAMP	Mercury	R1750025	J
	WG544030	SAMP	Benzene	R1750620	J3
	WG544030	SAMP	Toluene	R1750620	J3
	WG544030	SAMP	Ethylbenzene	R1750620	J3
	WG544030	SAMP	Total Xylenes	R1750620	J3
	WG544239	SAMP	Fluoranthene	R1752849	J
	WG544239	SAMP	Phenanthrene	R1752849	J
L524086-10	WG544063	SAMP	Cadmium	R1750870	J
	WG544374	SAMP	Chromium,Hexavalent	R1753009	J
	WG543850	SAMP	Mercury	R1750025	J
L524086-11	WG544063	SAMP	Cadmium	R1750871	J
	WG544238	SAMP	TPH (GC/FID) High Fraction	R1752751	J
	WG544374	SAMP	Chromium,Hexavalent	R1753009	J
	WG543850	SAMP	Mercury	R1750025	J
	WG544239	SAMP	Phenanthrene	R1752849	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
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V3	(ESC) - Additional QC Info: The internal standard exhibited poor recovery due to sample matrix interference. The analytical results will be biased high. BDL results will be unaffected.

Qualifier Report Information

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

Definitions

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

Summary of Remarks For Samples Printed
07/11/11 at 14:45:01

TSR Signing Reports: 134
R5 - Desired TAT

Sample: L524086-01 Account: OXYGJCO Received: 07/01/11 09:00 Due Date: 07/11/11 00:00 RPT Date: 07/11/11 14:44
Sample: L524086-02 Account: OXYGJCO Received: 07/01/11 09:00 Due Date: 07/11/11 00:00 RPT Date: 07/11/11 14:44
Sample: L524086-03 Account: OXYGJCO Received: 07/01/11 09:00 Due Date: 07/11/11 00:00 RPT Date: 07/11/11 14:44
Sample: L524086-04 Account: OXYGJCO Received: 07/01/11 09:00 Due Date: 07/11/11 00:00 RPT Date: 07/11/11 14:44
Sample: L524086-05 Account: OXYGJCO Received: 07/01/11 09:00 Due Date: 07/11/11 00:00 RPT Date: 07/11/11 14:44
Sample: L524086-06 Account: OXYGJCO Received: 07/01/11 09:00 Due Date: 07/11/11 00:00 RPT Date: 07/11/11 14:44
Sample: L524086-07 Account: OXYGJCO Received: 07/01/11 09:00 Due Date: 07/11/11 00:00 RPT Date: 07/11/11 14:44
Sample: L524086-08 Account: OXYGJCO Received: 07/01/11 09:00 Due Date: 07/11/11 00:00 RPT Date: 07/11/11 14:44
Sample: L524086-09 Account: OXYGJCO Received: 07/01/11 09:00 Due Date: 07/11/11 00:00 RPT Date: 07/11/11 14:44
Sample: L524086-10 Account: OXYGJCO Received: 07/01/11 09:00 Due Date: 07/11/11 00:00 RPT Date: 07/11/11 14:44
Sample: L524086-11 Account: OXYGJCO Received: 07/01/11 09:00 Due Date: 07/11/11 00:00 RPT Date: 07/11/11 14:44

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

Alternate billing information:
CO Table 910

Report to: Daniel Padilla
Email to: danielpadilla@oxy.com + ebrophy@walshenv.com
City/State Collected: Colorado

Analysis/Container/Preservative

Chain of Custody Page 1 of 2

Prepared by: **D161**

ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Road
Mt. Juliet, TN 37122

Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

Project Description: Hawkins 10-9

Phone: (970) 263-3601
FAX:

Client Project #:

ESC Key:

Collected by: Travis Brophy

Site/Facility ID#:

P.O.#:

Collected by (signature):

[Signature]

Rush? (Lab MUST Be Notified)

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

Date Results Needed:

Email? No Yes

FAX? No Yes

No. of Cntrs

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

CoCode OXYGJCO (lab use only)

Template/Prelogin

Shipped Via:

Packed on Ice N Y

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	V8260BTEX, GRO	DRO, SV8270PAHSIM	SAR, SPCON, pH	MRCRA8 + Cu, Ni, Zn	CR3, CR6SS	Remarks/Contaminant	Sample # (lab only)
BG-SB-west	grab	SS	1'	6-30-11	0600	3	X	X	X	X	X	L524086	L523 -01
BG-SB-center	grab	SS	1'	}	0618	3	X	X	X	X	X		-02
BG-SB-east	grab	SS	1'		0630	3	X	X	X	X	X		-03
BG-EB-north	grab	SS	1'		0655	3	X	X	X	X	X		-04
BG-EB-south	grab	SS	1'		0645	3	X	X	X	X	X		-05
Spoil-west	grab	SS	3-6"		0710	3	X	X	X	X	X		-06
Spoil-east	grab	SS	3-6"		0720	3	X	X	X	X	X		-07
BG-NB-west	grab	SS	1'		0730	3	X	X	X	X	X		-08
BG-NB-center	grab	SS	1'		0740	3	X	X	X	X	X		-09

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

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature) <u>[Signature]</u>	Date: <u>6-30-11</u>	Time: <u>1540</u>	Received by: (Signature) <u>[Signature]</u>	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: (lab use only) <u>[Initials]</u>
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: <u>2.4-c</u>	Bottles Received: <u>33-82</u>
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <u>[Signature]</u>	Date: <u>0701-11</u>	Time: <u>0900</u>
				pH Checked:	NCF:

4341 9822 5515

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

Alternate billing information:
CO Table 910
Report to:
Email to: @oxy.com

Analysis/Container/Preservative

Chain of Custody Page 2 of 2

Prepared by:

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

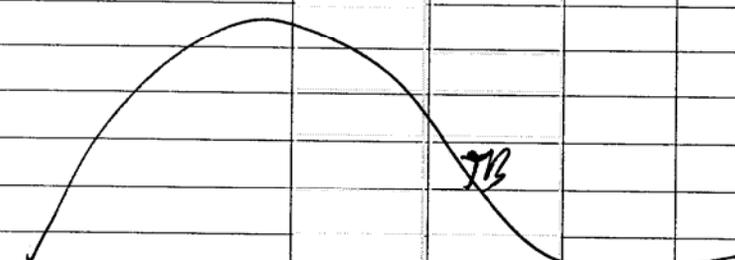
Project Description: **Hawkins 10-9** City/State Collected:
Phone: (970) 263-3601 Client Project #: ESC Key:
FAX: Collected by: Site/Facility ID#: P.O.#:

Collected by (signature): **Rush?** (Lab MUST Be Notified)
Date Results Needed:
Packed on Ice N Y
Same Day.....200%
Next Day.....100%
Two Day.....50%
Email? ___No___Yes
FAX? ___No___Yes

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	V8260BTEX, GRO	DRO, SV8270PAHSIM	SAR, SPCON, pH	MRCRA8 + Cu, Ni, Zn	CR3, CR6SS
BG-NB-east†	grab	SS	1'	6-30-4	0745	3	X	X	X	X	X
BG-NE	grab	SS	1'	6-30-4	6755	3	X	X	X	X	X

CoCode OXYGJCO (lab use only)
Template/Prelogin
Shipped Via:

Remarks/Contaminant Sample # (lab only)
L524066 -10
-11



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

Relinquished by: (Signature) <i>[Signature]</i>	Date: 6-30-4 Time: 1540	Received by: (Signature) <i>[Signature]</i>	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/>	Condition: (lab use only) OK
Relinquished by: (Signature)	Date:	Received by: (Signature)	Temp: 2.4°C Bottles Received:	
Relinquished by: (Signature)	Date:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 07-01-11 Time: 0900	pH Checked: NCF:



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

Report Summary

Wednesday June 13, 2012

Report Number: L579427

Samples Received: 06/08/12

Client Project:

Description: Hawkins 10-9 BC

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

June 13, 2012

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

Date Received : June 08, 2012
Description : Hawkins 10-9 BC
Sample ID : S1-1-2.5-BG
Collected By :
Collection Date : 06/07/12 09:46

ESC Sample # : L579427-01

Site ID : HAWKINS 10-9BG

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.0		su	9045D	06/11/12	1
Specific Conductance	220		umhos/cm	9050AMod	06/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L579427-01 (PH) - 8.0 @ 20.3c



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REPORT OF ANALYSIS

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

June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S1-1-2.5-BG
 Collected By :
 Collection Date : 06/07/12 09:46

ESC Sample # : L579427-02
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	5.6	0.32	1.0	mg/kg		6010B	06/13/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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REPORT OF ANALYSIS

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

June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S1-1-2.5-BG
 Collected By :
 Collection Date : 06/07/12 09:46

ESC Sample # : L579427-03
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	5.3	0.32	1.0	mg/kg		6010B	06/13/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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REPORT OF ANALYSIS

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

June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S1-1-2.5-BG
 Collected By :
 Collection Date : 06/07/12 09:46

ESC Sample # : L579427-04
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	4.8	0.32	1.0	mg/kg		6010B	06/13/12	1

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

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REPORT OF ANALYSIS

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 Grand Junction, CO 81506

June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S1-1-2.5-BG
 Collected By :
 Collection Date : 06/07/12 09:46

ESC Sample # : L579427-05
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	6.0	0.32	1.0	mg/kg		6010B	06/13/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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REPORT OF ANALYSIS

June 13, 2012

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

Date Received : June 08, 2012
Description : Hawkins 10-9 BC
Sample ID : S1-2-5.0-BG
Collected By :
Collection Date : 06/07/12 09:57

ESC Sample # : L579427-06

Site ID : HAWKINS 10-9BG

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.3		su	9045D	06/11/12	1
Specific Conductance	210		umhos/cm	9050AMod	06/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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L579427-06 (PH) - 8.3 @ 20.2c



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June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S1-2-5.0-BG
 Collected By :
 Collection Date : 06/07/12 09:57

ESC Sample # : L579427-07
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	5.7	0.32	1.0	mg/kg		6010B	06/13/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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REPORT OF ANALYSIS

Daniel Padilla
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June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S1-2-5.0-BG
 Collected By :
 Collection Date : 06/07/12 09:57

ESC Sample # : L579427-08
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	6.2	0.32	1.0	mg/kg		6010B	06/13/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S1-2-5.0-BG
 Collected By :
 Collection Date : 06/07/12 09:57

ESC Sample # : L579427-09
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	5.8	0.32	1.0	mg/kg		6010B	06/13/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S1-2-5.0-BG
 Collected By :
 Collection Date : 06/07/12 09:57

ESC Sample # : L579427-10
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	6.0	0.32	1.0	mg/kg		6010B	06/13/12	1

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

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REPORT OF ANALYSIS

June 13, 2012

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

Date Received : June 08, 2012
Description : Hawkins 10-9 BC
Sample ID : S2-1-2.5-BG
Collected By :
Collection Date : 06/07/12 10:47

ESC Sample # : L579427-11

Site ID : HAWKINS 10-9BG

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	7.7		su	9045D	06/11/12	1
Specific Conductance	180		umhos/cm	9050AMod	06/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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L579427-11 (PH) - 7.7 @ 20.2c



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REPORT OF ANALYSIS

Daniel Padilla
 OXY USA Inc - Grand Junction, CO
 760 Horizon Dr., Ste. 101
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June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S2-1-2.5-BG
 Collected By :
 Collection Date : 06/07/12 10:47

ESC Sample # : L579427-12
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	1.7	0.32	1.0	mg/kg		6010B	06/13/12	1

U = ND (Not Detected)

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

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June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S2-1-2.5-BG
 Collected By :
 Collection Date : 06/07/12 10:47

ESC Sample # : L579427-13
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	1.3	0.32	1.0	mg/kg		6010B	06/13/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S2-1-2.5-BG
 Collected By :
 Collection Date : 06/07/12 10:47

ESC Sample # : L579427-14
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	2.0	0.32	1.0	mg/kg		6010B	06/13/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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 Grand Junction, CO 81506

June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S2-1-2.5-BG
 Collected By :
 Collection Date : 06/07/12 10:47

ESC Sample # : L579427-15
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	2.5	0.32	1.0	mg/kg		6010B	06/13/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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REPORT OF ANALYSIS

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Grand Junction, CO 81506

Date Received : June 08, 2012
Description : Hawkins 10-9 BC
Sample ID : S2-2-5.0-BG
Collected By :
Collection Date : 06/07/12 10:58

ESC Sample # : L579427-16

Site ID : HAWKINS 10-9BG

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	7.8		su	9045D	06/11/12	1
Specific Conductance	77.		umhos/cm	9050AMod	06/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 06/13/12 14:08 Printed: 06/13/12 14:09
L579427-16 (PH) - 7.8 @ 19.7c



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REPORT OF ANALYSIS

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 Grand Junction, CO 81506

June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S2-2-5.0-BG
 Collected By :
 Collection Date : 06/07/12 10:58

ESC Sample # : L579427-17
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	2.7	0.32	1.0	mg/kg		6010B	06/13/12	1

U = ND (Not Detected)

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 Grand Junction, CO 81506

June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S2-2-5.0-BG
 Collected By :
 Collection Date : 06/07/12 10:58

ESC Sample # : L579427-18
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	1.0	0.32	1.0	mg/kg		6010B	06/12/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S2-2-5.0-BG
 Collected By :
 Collection Date : 06/07/12 10:58

ESC Sample # : L579427-19
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	1.2	0.32	1.0	mg/kg		6010B	06/12/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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 Grand Junction, CO 81506

June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S2-2-5.0-BG
 Collected By :
 Collection Date : 06/07/12 10:58

ESC Sample # : L579427-20
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	1.1	0.32	1.0	mg/kg		6010B	06/12/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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June 13, 2012

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

Date Received : June 08, 2012
Description : Hawkins 10-9 BC
Sample ID : S3-1-2.5-BG
Collected By :
Collection Date : 06/07/12 11:35

ESC Sample # : L579427-21
Site ID : HAWKINS 10-9BG
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	6.7		su	9045D	06/11/12	1
Specific Conductance	47.		umhos/cm	9050AMod	06/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L579427-21 (PH) - 6.7 @ 20.0c



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REPORT OF ANALYSIS

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

June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S3-1-2.5-BG
 Collected By :
 Collection Date : 06/07/12 11:35

ESC Sample # : L579427-22
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	2.4	0.32	1.0	mg/kg		6010B	06/12/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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

June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S3-1-2.5-BG
 Collected By :
 Collection Date : 06/07/12 11:35

ESC Sample # : L579427-23
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	2.2	0.32	1.0	mg/kg		6010B	06/12/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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

June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S3-1-2.5-BG
 Collected By :
 Collection Date : 06/07/12 11:35

ESC Sample # : L579427-24
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	2.9	0.32	1.0	mg/kg		6010B	06/12/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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

June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S3-1-2.5-BG
 Collected By :
 Collection Date : 06/07/12 11:35

ESC Sample # : L579427-25
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	2.2	0.32	1.0	mg/kg		6010B	06/12/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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

Date Received : June 08, 2012
Description : Hawkins 10-9 BC
Sample ID : S3-2-4.0-BG
Collected By :
Collection Date : 06/07/12 12:00

ESC Sample # : L579427-26

Site ID : HAWKINS 10-9BG

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	6.7		su	9045D	06/11/12	1
Specific Conductance	61.		umhos/cm	9050AMod	06/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L579427-26 (PH) - 6.7 @ 20.0c



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 Grand Junction, CO 81506

June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S3-2-4.0-BG
 Collected By :
 Collection Date : 06/07/12 12:00

ESC Sample # : L579427-27
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	3.1	0.32	1.0	mg/kg		6010B	06/12/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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 Grand Junction, CO 81506

June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S3-2-4.0-BG
 Collected By :
 Collection Date : 06/07/12 12:00

ESC Sample # : L579427-28
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	2.8	0.32	1.0	mg/kg		6010B	06/12/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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 Grand Junction, CO 81506

June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S3-2-4.0-BG
 Collected By :
 Collection Date : 06/07/12 12:00

ESC Sample # : L579427-29
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	3.5	0.32	1.0	mg/kg		6010B	06/12/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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 Grand Junction, CO 81506

June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S3-2-4.0-BG
 Collected By :
 Collection Date : 06/07/12 12:00

ESC Sample # : L579427-30
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	3.0	0.32	1.0	mg/kg		6010B	06/12/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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

Date Received : June 08, 2012
Description : Hawkins 10-9 BC
Sample ID : S4-1-2.5-BG
Collected By :
Collection Date : 06/07/12 12:32

ESC Sample # : L579427-31

Site ID : HAWKINS 10-9BG

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	7.5		su	9045D	06/11/12	1
Specific Conductance	130		umhos/cm	9050AMod	06/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L579427-31 (PH) - 7.5 @ 19.7c



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 Grand Junction, CO 81506

June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S4-1-2.5-BG
 Collected By :
 Collection Date : 06/07/12 12:32

ESC Sample # : L579427-32
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	2.4	0.32	1.0	mg/kg		6010B	06/12/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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 Grand Junction, CO 81506

June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S4-1-2.5-BG
 Collected By :
 Collection Date : 06/07/12 12:32

ESC Sample # : L579427-33
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	5.1	0.32	1.0	mg/kg		6010B	06/12/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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 Grand Junction, CO 81506

June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S4-1-2.5-BG
 Collected By :
 Collection Date : 06/07/12 12:32

ESC Sample # : L579427-34
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	3.0	0.32	1.0	mg/kg		6010B	06/12/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S4-1-2.5-BG
 Collected By :
 Collection Date : 06/07/12 12:32

ESC Sample # : L579427-35
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	U	1.6	5.0	mg/kg	0	6010B	06/12/12	5

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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Date Received : June 08, 2012
Description : Hawkins 10-9 BC
Sample ID : S4-2-5.0-BG
Collected By :
Collection Date : 06/07/12 12:56

ESC Sample # : L579427-36

Site ID : HAWKINS 10-9BG

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	7.4		su	9045D	06/11/12	1
Specific Conductance	130		umhos/cm	9050AMod	06/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L579427-36 (PH) - 7.4 @ 19.9c



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 Grand Junction, CO 81506

June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S4-2-5.0-BG
 Collected By :
 Collection Date : 06/07/12 12:56

ESC Sample # : L579427-37
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	2.7	0.32	1.0	mg/kg		6010B	06/12/12	1

U = ND (Not Detected)

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 Grand Junction, CO 81506

June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S4-2-5.0-BG
 Collected By :
 Collection Date : 06/07/12 12:56

ESC Sample # : L579427-38
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	2.6	0.32	1.0	mg/kg		6010B	06/12/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S4-2-5.0-BG
 Collected By :
 Collection Date : 06/07/12 12:56

ESC Sample # : L579427-39
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	U	0.32	1.0	mg/kg		6010B	06/12/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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 Grand Junction, CO 81506

June 13, 2012

Date Received : June 08, 2012
 Description : Hawkins 10-9 BC
 Sample ID : S4-2-5.0-BG
 Collected By :
 Collection Date : 06/07/12 12:56

ESC Sample # : L579427-40
 Site ID : HAWKINS 10-9BG
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	U	1.6	5.0	mg/kg	0	6010B	06/12/12	5

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L579427-01	WG597091	SAMP	pH	R2205573	T8
L579427-06	WG597091	SAMP	pH	R2205573	T8
L579427-11	WG597091	SAMP	pH	R2205573	T8
L579427-16	WG597091	SAMP	pH	R2205573	T8
L579427-21	WG597091	SAMP	pH	R2205573	T8
L579427-26	WG597091	SAMP	pH	R2205573	T8
L579427-31	WG597091	SAMP	pH	R2205573	T8
L579427-35	WG597235	SAMP	Arsenic	R2206257	O
L579427-36	WG597091	SAMP	pH	R2205573	T8
L579427-40	WG597235	SAMP	Arsenic	R2206257	O

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
0	(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.

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

Alternate billing information:

Report to: Daniel Padilla / Blair Rollins
Email to: daniel_padilla@oxy.com, blai

Analysis/Container/Preservative

Chain of Custody
Page 1 of 2

Prepared by: E152

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Road
Mt. Juliet, TN 37122

Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

Project Description: HAWKINS 10-9 BG City/State Collected

Phone: (970) 263-3601 Client Project #: ESC Key:

Collected by: [Signature] Site/Facility ID#: HAWKINS 10-9 BG P.O.#:

Collected by (signature): [Signature] **Rush?** (Lab MUST Be Notified)
 ___ Same Day.....200%
 ___ Next Day.....100%
 ___ Two Day.....50%
 Date Results Needed:
 Email? ___No XYes
 FAX? ___No ___Yes

CoCode OXYGJCO (lab use only)
Template/Prelogin T74772
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs To	EC	PH	ARSENIC	ARSENIC	ARSENIC	ARSENIC	Remarks/Contaminant	Sample # (lab only)
S1-1-2.5-B6			2.5ft.	6/7/12	09:46	1	X	X	X	X	X			1579427-01/02/03/04/05
S1-1-2.5-B6			2.5ft.	6/7/12	09:46	1	X	X	X	X	X			
S1-2-5.0-B6			5.0ft.	6/7/12	09:57	1	X	X	X	X	X			06/07/08/09/10
S1-2-5.0-B6			5.0ft.	6/7/12	09:57	1	X	X	X	X	X			
S2-1-2.5-B6			2.5ft.	6/7/12	10:47	1	X	X	X	X	X			11/12/13/14/15
S2-1-2.5-B6			2.5ft.	6/7/12	10:47	1	X	X	X	X	X			
S2-2-5.0-B6			5.0ft.	6/7/12	10:58	1	X	X	X	X	X			16/17/18/19/20
S2-2-5.0-B6			5.0ft.	6/7/12	10:58	1	X	X	X	X	X			
S3-1-2.5-B6			2.5ft.	6/7/12	11:35	1	X	X	X	X	X			21/22/23/24/25

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other 5040 0624 6233 pH _____ Temp _____

Remarks: PLEASE ANALYZE FOR ARSENIC 4 TIMES EACH SAMPLE Flow _____ Other _____

Relinquished by: (Signature) <u>[Signature]</u>	Date: <u>6/07/12</u>	Time: <u>3:51</u>	Received by: (Signature) <u>[Signature]</u>	Samples returned via: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: (lab use only) <u>TO</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date:	Time:	Received by: (Signature) <u>[Signature]</u>	Temp: <u>3.1°</u>	Bottles Received: <u>15-802</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date:	Time:	Received for lab by: (Signature) <u>[Signature]</u>	Date: <u>6-8-12</u>	Time: <u>0900</u>
				pH Checked:	NCF: <u>YES</u>

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

Alternate billing information:
 Report to: Daniel Padilla / Blair Rollins
 Email to: daniel_padilla@oxy.com, blai

Analysis/Container/Preservative

Chain of Custody
 Page 2 of 2

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
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 Mt. Juliet, TN 37122
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Project Description: **HAWKINS 10-9 BG** City/State Collected:
 Phone: (970) 263-3601 Client Project #: ESC Key:
 FAX: Collected by: *[Signature]* Site/Facility ID#: **HAWKINS 10-9 BG** P.O.#:
 Collected by (signature): *[Signature]* **Rush?** (Lab MUST Be Notified)
 Same Day.....200%
 Next Day.....100%
 Two Day.....50%
 Date Results Needed:
 Email? No Yes
 FAX? No Yes
 Packed on Ice N Y

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs TD	Analysis/Container/Preservative					
							EC	pH	ARSENIC	ARSENIC		
S3-2-4.0-B6			4.0 ft.	6/7/12	12:00	1	X	X	X	X		
S3-1-2.5-B6			2.5 ft.	6/7/12	11:35	1	X	X	X	X		
S4-1-2.5-B6			2.5 ft.	6/7/12	12:32	1	X	X	X	X		
S4-1-2.5-B6			2.5 ft.	6/7/12	12:32	1	X	X	X	X		
S4-2-5.0-B6			5.0 ft.	6/7/12	12:56	1	X	X	X	X		
S4-2-5.0-B6			5.0 ft.	6/7/12	12:56	1	X	X	X	X		

CoCode OXYGJCO (lab use only)
 Template/Prelogin T74772
 Shipped Via:

Remarks/Contaminant	Sample # (lab only)
	26/27/28/29/30
	31/32/33/34/35
	36/37/38/39/40

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

pH _____ Temp _____
 Flow _____ Other _____

Remarks: **PLEASE ANALYZE FOR ARSENIC 4 TIMES EACH SAMPLE**

Relinquished by: (Signature) <i>[Signature]</i>	Date: 06/07/12	Time: 3:51	Received by: (Signature) <i>[Signature]</i>	Samples returned via: <input checked="" type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/>	Condition: <i>[Signature]</i> (lab use only) TD
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received by: (Signature) <i>[Signature]</i>	Temp: 3.1°C	Bottles Received: 15-802
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 6-8-12	Time: 0900
				pH Checked:	NCF: <i>[Signature]</i>



L·A·B S·C·I·E·N·C·E·S

NON-CONFORMANCE FORM

Login No.: L579Y27
Date: 6-8-12
Evaluated by: Foy Cely
Client: OXYGEN CO

Non-Conformance (check applicable items)

- Parameter(s) past holding time
- Login Clarification Needed
- Improper temperature
- Chain of custody is incomplete
- Improper container type
- Chain of Custody is missing (see below)
- Improper preservation
- Broken container(s) (See below)
- Container lid not intact
- Broken container: sufficient sample volume remains for analysis requested (See below)

If no COC: Received by _____ Date: _____ Time: _____
Temp: _____ Cont. Rec. _____ pH: _____
 Fedex UPS SWA Other _____
Tracking # _____
 Insufficient packing material around container
 Insufficient packing material inside cooler
 Improper handling by carrier (FedEx / UPS / Courier)
 Sample was frozen

Comments: Client listed all IDs twice on the COC. Except for S3-2-4.0-BF at 1200. Are the IDs that are the same, the same sample? Please clarify.

Login Instructions:

TSR Initials: MB

Client informed by call / email / fax / voice mail date: 6/8/12 time: 1610

Client contact:

- Log by sample IDs -> Log ASPer as 4 duph numbers



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Est. 1970

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

Report Summary

Wednesday August 22, 2012

Report Number: L590753

Samples Received: 08/17/12

Client Project: WA-000546-0013-10

Description: Hawkins Ranch 10-9 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 - 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

August 22, 2012

Date Received : August 17, 2012
 Description : Hawkins Ranch 10-9 Background
 Sample ID : HAWKINS 10-9 2FT
 Collected By : Chris Bak
 Collection Date : 08/16/12 09:35

ESC Sample # : L590753-01

Site ID : HR 10-9

Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	U	0.32	1.0	mg/kg		6010B	08/21/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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Reported: 08/21/12 14:01 Revised: 08/22/12 14:35



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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 22, 2012

Date Received : August 17, 2012
 Description : Hawkins Ranch 10-9 Background
 Sample ID : HAWKINS 10-9 2FT
 Collected By : Chris Bak
 Collection Date : 08/16/12 09:35

ESC Sample # : L590753-02

Site ID : HR 10-9

Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	U	0.32	1.0	mg/kg		6010B	08/21/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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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 22, 2012

Date Received : August 17, 2012
 Description : Hawkins Ranch 10-9 Background
 Sample ID : HAWKINS 10-9 4FT
 Collected By : Chris Bak
 Collection Date : 08/16/12 09:40

ESC Sample # : L590753-03

Site ID : HR 10-9

Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	U	0.32	1.0	mg/kg		6010B	08/21/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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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 22, 2012

Date Received : August 17, 2012
 Description : Hawkins Ranch 10-9 Background
 Sample ID : HAWKINS 10-9 4FT
 Collected By : Chris Bak
 Collection Date : 08/16/12 09:40

ESC Sample # : L590753-04

Site ID : HR 10-9

Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	U	0.32	1.0	mg/kg		6010B	08/21/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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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 22, 2012

Date Received : August 17, 2012
 Description : Hawkins Ranch 10-9 Background
 Sample ID : HAWKINS 10-9 6FT
 Collected By : Chris Bak
 Collection Date : 08/16/12 09:48

ESC Sample # : L590753-05

Site ID : HR 10-9

Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	U	0.32	1.0	mg/kg		6010B	08/21/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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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 22, 2012

Date Received : August 17, 2012
 Description : Hawkins Ranch 10-9 Background
 Sample ID : HAWKINS 10-9 6FT
 Collected By : Chris Bak
 Collection Date : 08/16/12 09:48

ESC Sample # : L590753-06

Site ID : HR 10-9

Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	U	0.32	1.0	mg/kg		6010B	08/21/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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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 22, 2012

Date Received : August 17, 2012
 Description : Hawkins Ranch 10-9 Background
 Sample ID : HAWKINS 10-9 8FT
 Collected By : Chris Bak
 Collection Date : 08/16/12 09:54

ESC Sample # : L590753-07

Site ID : HR 10-9

Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	1.7	0.32	1.0	mg/kg		6010B	08/21/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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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 22, 2012

Date Received : August 17, 2012
 Description : Hawkins Ranch 10-9 Background
 Sample ID : HAWKINS 10-9 8FT
 Collected By : Chris Bak
 Collection Date : 08/16/12 09:54

ESC Sample # : L590753-08

Site ID : HR 10-9

Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	1.1	0.32	1.0	mg/kg		6010B	08/21/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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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 22, 2012

Date Received : August 17, 2012
 Description : Hawkins Ranch 10-9 Background
 Sample ID : HAWKINS 10-9 10FT
 Collected By : Chris Bak
 Collection Date : 08/16/12 10:03

ESC Sample # : L590753-09

Site ID : HR 10-9

Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	9.1	0.32	1.0	mg/kg		6010B	08/22/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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REPORT OF ANALYSIS

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

August 22, 2012

Date Received : August 17, 2012
 Description : Hawkins Ranch 10-9 Background
 Sample ID : HAWKINS 10-9 10FT
 Collected By : Chris Bak
 Collection Date : 08/16/12 10:03

ESC Sample # : L590753-10

Site ID : HR 10-9

Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	7.9	0.32	1.0	mg/kg		6010B	08/22/12	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

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

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

August 22, 2012

Date Received : August 17, 2012
 Description : Hawkins Ranch 10-9 Background
 Sample ID : HAWKINS 10-9 12FT
 Collected By : Chris Bak
 Collection Date : 08/16/12 10:19

ESC Sample # : L590753-11

Site ID : HR 10-9

Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	16.	0.32	1.0	mg/kg		6010B	08/22/12	1

U = ND (Not Detected)

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

Note:

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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 22, 2012

Date Received : August 17, 2012
 Description : Hawkins Ranch 10-9 Background
 Sample ID : HAWKINS 10-9 12FT
 Collected By : Chris Bak
 Collection Date : 08/16/12 10:19

ESC Sample # : L590753-12

Site ID : HR 10-9

Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	28.	0.32	1.0	mg/kg		6010B	08/22/12	1

U = ND (Not Detected)

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

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

August 22, 2012

Date Received : August 17, 2012
 Description : Hawkins Ranch 10-9 Background
 Sample ID : HAWKINS 10-9 14FT
 Collected By : Chris Bak
 Collection Date : 08/16/12 10:30

ESC Sample # : L590753-13

Site ID : HR 10-9

Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	8.9	0.32	1.0	mg/kg		6010B	08/21/12	1

U = ND (Not Detected)

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

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Reported: 08/21/12 14:01 Revised: 08/22/12 14:35



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REPORT OF ANALYSIS

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

August 22, 2012

Date Received : August 17, 2012
 Description : Hawkins Ranch 10-9 Background
 Sample ID : HAWKINS 10-9 14FT
 Collected By : Chris Bak
 Collection Date : 08/16/12 10:30

ESC Sample # : L590753-14

Site ID : HR 10-9

Project # : WA-000546-0013-10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	9.4	0.32	1.0	mg/kg	J3	6010B	08/21/12	1

U = ND (Not Detected)

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L590753-14	WG608571	SAMP	Arsenic	R2310274	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.

Summary of Remarks For Samples Printed
08/22/12 at 14:35:41

TSR Signing Reports: 134
R4 - Rush: Three Day

Log BTEX by 8260 unless otherwise noted

Sample: L590753-01 Account: OXYGJCO Received: 08/17/12 09:00 Due Date: 08/23/12 00:00 RPT Date: 08/21/12 14:01
Changed to rush - MB 8/20/12
Sample: L590753-02 Account: OXYGJCO Received: 08/17/12 09:00 Due Date: 08/23/12 00:00 RPT Date: 08/21/12 14:01
Run sample from container -01
Sample: L590753-03 Account: OXYGJCO Received: 08/17/12 09:00 Due Date: 08/23/12 00:00 RPT Date: 08/21/12 14:01

Sample: L590753-04 Account: OXYGJCO Received: 08/17/12 09:00 Due Date: 08/23/12 00:00 RPT Date: 08/21/12 14:01
Run sample from container -03
Sample: L590753-05 Account: OXYGJCO Received: 08/17/12 09:00 Due Date: 08/23/12 00:00 RPT Date: 08/21/12 14:01

Sample: L590753-06 Account: OXYGJCO Received: 08/17/12 09:00 Due Date: 08/23/12 00:00 RPT Date: 08/21/12 14:01
Run sample from container -05
Sample: L590753-07 Account: OXYGJCO Received: 08/17/12 09:00 Due Date: 08/23/12 00:00 RPT Date: 08/21/12 14:01

Sample: L590753-08 Account: OXYGJCO Received: 08/17/12 09:00 Due Date: 08/23/12 00:00 RPT Date: 08/21/12 14:01
Run sample from container -07
Sample: L590753-09 Account: OXYGJCO Received: 08/17/12 09:00 Due Date: 08/23/12 00:00 RPT Date: 08/21/12 14:01

Sample: L590753-10 Account: OXYGJCO Received: 08/17/12 09:00 Due Date: 08/23/12 00:00 RPT Date: 08/21/12 14:01
Run sample from container -09
Sample: L590753-11 Account: OXYGJCO Received: 08/17/12 09:00 Due Date: 08/23/12 00:00 RPT Date: 08/21/12 14:01

Sample: L590753-12 Account: OXYGJCO Received: 08/17/12 09:00 Due Date: 08/23/12 00:00 RPT Date: 08/21/12 14:01
Run sample from container -11
Sample: L590753-13 Account: OXYGJCO Received: 08/17/12 09:00 Due Date: 08/23/12 00:00 RPT Date: 08/21/12 14:01

Sample: L590753-14 Account: OXYGJCO Received: 08/17/12 09:00 Due Date: 08/23/12 00:00 RPT Date: 08/21/12 14:01
Run sample from container -13

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

Alternate billing information:
CO Table 910
Report to: Daniel Padilla / Blair Rollins
Email to: ~~Blair.Rollins@oxy.com~~
daniel_padilla@oxy.com

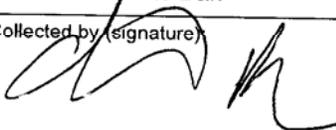
Analysis/Container/Preservative

I131

Chain of Custody
age 1 of 1

Prepared by:

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Mt. Juliet, TN 37122
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Project Description: Hawkins Ranch 10-9 Background
City/State Collected: Colbran, CO
Phone: (970) 263-3601
FAX: (970) 263-3601
Client Project #: WA-000546-0013-10
ESC Key:
Collected by: Chris Bak
Site/Facility ID#: HR 10-9
P.O.#:
Collected by (signature): 
Rush? (Lab MUST Be Notified)
Same Day.....200%
Next Day.....100%
Two Day.....50%
Date Results Needed:
Email? No Yes
FAX? No Yes
Packed on Ice N Y

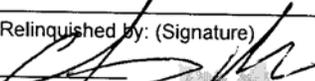
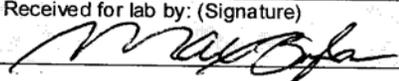
CoCode (lab use only)
Template/Prelogin T74772
Shipped Via:
Remarks/Contaminant
Sample # (lab only)

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Analysis/Container/Preservative					Remarks/Contaminant	Sample # (lab only)
							Arsenic	Arsenic	Arsenic	Arsenic	Arsenic		
Hawkins 10-9	Grab	SS	2'	8/16/12	0935	1	X	X					L590753-01-02
Hawkins 10-9	Grab	SS	4'	8/16/12	0940	1	X	X					-03/04
Hawkins 10-9	Grab	SS	6'	8/16/12	0948	1	X	X					-05/06
Hawkins 10-9	Grab	SS	8'	8/16/12	0954	1	X	X					-07/08
Hawkins 10-9	Grab	SS	10'	8/16/12	1003	1	X	X					-09/10
Hawkins 10-9	Grab	SS	12'	8/16/12	1019	1	X	X					-11/12
Hawkins 10-9	Grab	SS	14'	8/16/12	1030	1	X	X					-13/14

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

Remarks: _____ Flow _____ Other _____

52748795-1009

Relinquished by: (Signature) 	Date: 8/16/12	Time: 5:00	Received by: (Signature) _____	Samples returned via: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/>	Condition: (lab use only) OK
Relinquished by: (Signature) _____	Date: _____	Time: _____	Received by: (Signature) _____	Temp: Amb	Bottles Received: 7-8oz Jars
Relinquished by: (Signature) _____	Date: _____	Time: _____	Received for lab by: (Signature) 	Date: 8-17-12	Time: 0900
				pH Checked: _____	NCF: _____