



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

Est. 1970

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

### Report Summary

Monday November 01, 2010

Report Number: L485339

Samples Received: 10/22/10

Client Project:

Description: Pond G

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

Entire Report Reviewed By:

Mark W. Beasley , ESC Representative

#### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140  
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,  
TX - T104704245, OK-9915

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

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REPORT OF ANALYSIS

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

November 01, 2010

Date Received : October 22, 2010  
 Description : Pond G

ESC Sample # : L485339-01

Sample ID : SE BASE OF PIT 0-6 IN

Site ID :

Collected By : Jerry C  
 Collection Date : 10/21/10 09:30

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	8.6			su		9045D	10/27/10	1
Sodium Adsorption Ratio	1.8					Calc.	10/30/10	1
Specific Conductance	75.			umhos/cm		9050AMo	10/28/10	1
Arsenic	12.	0.32	1.0	mg/kg		6010B	10/27/10	1
Benzene	U	0.00090	0.0025	mg/kg		8021/80	10/23/10	5
Toluene	U	0.0015	0.025	mg/kg		8021/80	10/23/10	5
Ethylbenzene	U	0.0013	0.0025	mg/kg		8021/80	10/23/10	5
Total Xylene	U	0.0028	0.0075	mg/kg		8021/80	10/23/10	5
TPH (GC/FID) Low Fraction	U	0.14	0.50	mg/kg		GRO	10/23/10	5
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	97.7			% Rec.		8021/80	10/23/10	5
a,a,a-Trifluorotoluene(PID)	102.			% Rec.		8021/80	10/23/10	5
TPH (GC/FID) High Fraction	U	0.77	4.0	mg/kg		3546/DR	10/25/10	1
Surrogate recovery(%)								
o-Terphenyl	62.2			% Rec.		3546/DR	10/25/10	1

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

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Reported: 11/01/10 12:18 Printed: 11/01/10 12:59  
 L485339-01 (PH) - 8.6@20.8c



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 Grand Junction, CO 81506

November 01, 2010

Date Received : October 22, 2010  
 Description : Pond G

ESC Sample # : L485339-02

Sample ID : SW BASE OF PIT 0-6 IN

Site ID :

Collected By : Jerry C  
 Collection Date : 10/21/10 09:43

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	8.7			su		9045D	10/27/10	1
Sodium Adsorption Ratio	2.2					Calc.	10/30/10	1
Specific Conductance	89.			umhos/cm		9050AMo	10/28/10	1
Arsenic	20.	0.32	1.0	mg/kg		6010B	10/27/10	1
Benzene	U	0.00090	0.0025	mg/kg		8021/80	10/23/10	5
Toluene	U	0.0015	0.025	mg/kg		8021/80	10/23/10	5
Ethylbenzene	U	0.0013	0.0025	mg/kg		8021/80	10/23/10	5
Total Xylene	U	0.0028	0.0075	mg/kg		8021/80	10/23/10	5
TPH (GC/FID) Low Fraction	U	0.14	0.50	mg/kg		GRO	10/23/10	5
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	98.5			% Rec.		8021/80	10/23/10	5
a,a,a-Trifluorotoluene(PID)	103.			% Rec.		8021/80	10/23/10	5
TPH (GC/FID) High Fraction	1.3	0.77	4.0	mg/kg	J	3546/DR	10/27/10	1
Surrogate recovery(%)								
o-Terphenyl	52.3			% Rec.		3546/DR	10/27/10	1

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Reported: 11/01/10 12:18 Printed: 11/01/10 12:59  
 L485339-02 (PH) - 8.7@21.0c



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November 01, 2010

Date Received : October 22, 2010  
 Description : Pond G

ESC Sample # : L485339-03

Sample ID : NE BASE OF PIT 0-6 IN

Site ID :

Collected By : Jerry C  
 Collection Date : 10/21/10 10:20

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	8.6			su		9045D	10/27/10	1
Sodium Adsorption Ratio	1.7					Calc.	10/30/10	1
Specific Conductance	94.			umhos/cm		9050AMo	10/28/10	1
Arsenic	22.	0.32	1.0	mg/kg		6010B	10/27/10	1
Benzene	U	0.00090	0.0025	mg/kg		8021/80	10/23/10	5
Toluene	U	0.0015	0.025	mg/kg		8021/80	10/23/10	5
Ethylbenzene	U	0.0013	0.0025	mg/kg		8021/80	10/23/10	5
Total Xylene	U	0.0028	0.0075	mg/kg		8021/80	10/23/10	5
TPH (GC/FID) Low Fraction	U	0.14	0.50	mg/kg		GRO	10/23/10	5
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	99.9			% Rec.		8021/80	10/23/10	5
a,a,a-Trifluorotoluene(PID)	104.			% Rec.		8021/80	10/23/10	5
TPH (GC/FID) High Fraction	U	0.77	4.0	mg/kg		3546/DR	10/26/10	1
Surrogate recovery(%)								
o-Terphenyl	56.3			% Rec.		3546/DR	10/26/10	1

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 L485339-03 (PH) - 8.6@20.6c



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

November 01, 2010

Date Received : October 22, 2010  
 Description : Pond G  
 Sample ID : NW SLOPE OF PIT  
 Collected By : Jerry C  
 Collection Date : 10/21/10 10:05

ESC Sample # : L485339-04  
 Site ID :  
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	8.0			su		9045D	10/27/10	1
Sodium Adsorption Ratio	0.96					Calc.	10/30/10	1
Specific Conductance	84.			umhos/cm		9050AMo	10/28/10	1
Arsenic	14.	0.32	1.0	mg/kg		6010B	10/27/10	1
Benzene	U	0.00090	0.0025	mg/kg		8021/80	10/23/10	5
Toluene	U	0.0015	0.025	mg/kg		8021/80	10/23/10	5
Ethylbenzene	U	0.0013	0.0025	mg/kg		8021/80	10/23/10	5
Total Xylene	U	0.0028	0.0075	mg/kg		8021/80	10/23/10	5
TPH (GC/FID) Low Fraction	U	0.14	0.50	mg/kg		GRO	10/23/10	5
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	98.3			% Rec.		8021/80	10/23/10	5
a,a,a-Trifluorotoluene(PID)	103.			% Rec.		8021/80	10/23/10	5
TPH (GC/FID) High Fraction	3.9	0.77	4.0	mg/kg	J	3546/DR	10/27/10	1
Surrogate recovery(%)								
o-Terphenyl	58.8			% Rec.		3546/DR	10/27/10	1

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Reported: 11/01/10 12:18 Printed: 11/01/10 12:59  
 L485339-04 (PH) - 8.0@20.6c

Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L485339-02	WG505096	SAMP	TPH (GC/FID) High Fraction	R1443829	J
L485339-04	WG505096	SAMP	TPH (GC/FID) High Fraction	R1443829	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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Quality Assurance Report  
 Level II

L485339

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Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/kg			WG504826	10/23/10 07:54
Ethylbenzene	< .0005	mg/kg			WG504826	10/23/10 07:54
Toluene	< .005	mg/kg			WG504826	10/23/10 07:54
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG504826	10/23/10 07:54
Total Xylene	< .0015	mg/kg			WG504826	10/23/10 07:54
a,a,a-Trifluorotoluene(FID)		% Rec.	99.63	59-128	WG504826	10/23/10 07:54
a,a,a-Trifluorotoluene(PID)		% Rec.	104.0	54-144	WG504826	10/23/10 07:54
TPH (GC/FID) High Fraction	< 4	ppm			WG504885	10/25/10 13:46
o-Terphenyl		% Rec.	65.78	50-150	WG504885	10/25/10 13:46
TPH (GC/FID) High Fraction	< 4	ppm			WG505096	10/26/10 14:11
o-Terphenyl		% Rec.	79.57	50-150	WG505096	10/26/10 14:11
pH	4.80	su			WG505439	10/27/10 18:03
Arsenic	< 1	mg/kg			WG505274	10/27/10 14:17
Specific Conductance	1.90	umhos/cm			WG505456	10/28/10 15:34

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
pH	su	6.60	6.70	1.50*	1	L485244-01	WG505439
pH	su	7.80	7.80	0	1	L485422-02	WG505439
Arsenic	mg/kg	9.10	9.80	7.30	20	L485290-04	WG505274
Specific Conductance	umhos/cm	4800	4800	0.830	20	L485076-01	WG505456

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/kg	.05	0.0484	96.9	76-113	WG504826
Ethylbenzene	mg/kg	.05	0.0509	102.	78-115	WG504826
Toluene	mg/kg	.05	0.0505	101.	76-114	WG504826
Total Xylene	mg/kg	.15	0.160	106.	81-118	WG504826
a,a,a-Trifluorotoluene(FID)				98.90	59-128	WG504826
a,a,a-Trifluorotoluene(PID)				103.0	54-144	WG504826
TPH (GC/FID) Low Fraction	mg/kg	5.5	4.88	88.8	67-135	WG504826
a,a,a-Trifluorotoluene(FID)				91.97	59-128	WG504826
a,a,a-Trifluorotoluene(PID)				107.5	54-144	WG504826
TPH (GC/FID) High Fraction	ppm	60	46.2	76.9	50-150	WG504885
o-Terphenyl				78.37	50-150	WG504885
TPH (GC/FID) High Fraction	ppm	60	51.1	85.2	50-150	WG505096
o-Terphenyl				97.66	50-150	WG505096

\* Performance of this Analyte is outside of established criteria.  
 For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
pH	su	6.92	6.90	99.7	97.98-102.02	WG505439
Arsenic	mg/kg	192	169.	88.0	78.6-120.8	WG505274
Specific Conductance	umhos/cm	406	420.	103.	85-115	WG505456

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/kg	0.0477	0.0484	95.0	76-113	1.51	20	WG504826
Ethylbenzene	mg/kg	0.0504	0.0509	101.	78-115	1.00	20	WG504826
Toluene	mg/kg	0.0494	0.0505	99.0	76-114	2.16	20	WG504826
Total Xylene	mg/kg	0.157	0.160	105.	81-118	1.55	20	WG504826
a,a,a-Trifluorotoluene(FID)				98.44	59-128			WG504826
a,a,a-Trifluorotoluene(PID)				102.0	54-144			WG504826
TPH (GC/FID) Low Fraction	mg/kg	4.82	4.88	88.0	67-135	1.24	20	WG504826
a,a,a-Trifluorotoluene(FID)				91.44	59-128			WG504826
a,a,a-Trifluorotoluene(PID)				107.5	54-144			WG504826
TPH (GC/FID) High Fraction	ppm	47.6	46.2	79.0	50-150	3.05	20	WG504885
o-Terphenyl				81.12	50-150			WG504885
TPH (GC/FID) High Fraction	ppm	46.7	51.1	78.0	50-150	9.10	25	WG505096
o-Terphenyl				89.75	50-150			WG505096
pH	su	6.90	6.90	100.	97.98-102.02	0	20	WG505439
Specific Conductance	umhos/	420.	420.	103.	85-115	0	20	WG505456

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
Benzene	mg/kg	0.238	0	.05	95.2	32-137	L485339-01	WG504826
Ethylbenzene	mg/kg	0.242	0	.05	96.9	10-150	L485339-01	WG504826
Toluene	mg/kg	0.245	0	.05	98.1	20-142	L485339-01	WG504826
Total Xylene	mg/kg	0.761	0	.15	101.	16-141	L485339-01	WG504826
a,a,a-Trifluorotoluene(FID)					98.38	59-128		WG504826
a,a,a-Trifluorotoluene(PID)					101.9	54-144		WG504826
TPH (GC/FID) Low Fraction	mg/kg	18.3	0	5.5	66.5	55-109	L485339-01	WG504826
a,a,a-Trifluorotoluene(FID)					91.83	59-128		WG504826
a,a,a-Trifluorotoluene(PID)					105.0	54-144		WG504826
TPH (GC/FID) High Fraction	ppm	46.0	0.521	60	75.8	50-150	L485446-05	WG504885
o-Terphenyl					83.98	50-150		WG504885
TPH (GC/FID) High Fraction	ppm	187.	0	60	311.*	50-150	L485347-05	WG505096
o-Terphenyl					82.23	50-150		WG505096
Arsenic	mg/kg	51.0	9.80	50	82.4	75-125	L485290-04	WG505274

\* Performance of this Analyte is outside of established criteria.  
 For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Benzene	mg/kg	0.238	0.238	95.3	32-137	0.0400	39	L485339-01	WG504826
Ethylbenzene	mg/kg	0.229	0.242	91.7	10-150	5.53	44	L485339-01	WG504826
Toluene	mg/kg	0.236	0.245	94.6	20-142	3.65	42	L485339-01	WG504826
Total Xylene	mg/kg	0.709	0.761	94.6	16-141	7.05	46	L485339-01	WG504826
a,a,a-Trifluorotoluene(FID)				98.80	59-128				WG504826
a,a,a-Trifluorotoluene(PID)				101.6	54-144				WG504826
TPH (GC/FID) Low Fraction	mg/kg	18.3	18.3	66.5	55-109	0.120	20	L485339-01	WG504826
a,a,a-Trifluorotoluene(FID)				93.48	59-128				WG504826
a,a,a-Trifluorotoluene(PID)				105.6	54-144				WG504826
TPH (GC/FID) High Fraction	ppm	47.8	46.0	78.8	50-150	3.88	20	L485446-05	WG504885
o-Terphenyl				81.54	50-150				WG504885
TPH (GC/FID) High Fraction	ppm	177.	187.	294.*	50-150	5.48	25	L485347-05	WG505096
o-Terphenyl				97.03	50-150				WG505096
Arsenic	mg/kg	52.0	51.0	84.4	75-125	1.94	20	L485290-04	WG505274

Batch number /Run number / Sample number cross reference

WG504826: R1441329: L485339-01 02 03 04  
 WG504885: R1443596: L485339-01  
 WG505096: R1443829: L485339-02 03 04  
 WG505439: R1446189: L485339-01 02 03 04  
 WG505274: R1446313: L485339-01 02 03 04  
 WG505456: R1447150: L485339-01 02 03 04  
 WG505406: R1450349: L485339-01 02 03 04

\* \* Calculations are performed prior to rounding of reported values .  
 \* Performance of this Analyte is outside of established criteria.  
 For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.