DOCUMENT #2224691

FORM 4 Rev 12/05 — Page 1

State of Colorado
Oil and Gas Conservation Commission

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

RECEIVED 5/17/2012

SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form). Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b).

1. OGCC Operator Number: 100185
2. Name of Operator: Encana Oil & Gas (USA) Inc.
3. Address: 370 17th Street Suite 1700
   City: Denver State: CO Zip 80202
4. Contact Name: Julia M. Carter
   Phone: 720 876 5240
   Fax: 720 876 6240
5. API Number 045-06915 OGCC Facility ID Number 323905
6. Well/Facility Name: Standard Shale 7. Well/Facility Number 6401
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): NWNW Sec 9 T7S-R99W, 6th PM
9. County: Garfield 10. Field Name: Wildcat
11. Federal, Indian or State Lease Number:

Complete the Attachment Checklist

	OP	OGCC
Survey Plat		
Directional Survey		
Surface Eqpmt Diagram		
Technical Info Page	X	
Other		

General Notice

☐ **CHANGE OF LOCATION:** Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)

	FNL/FSL		FEL/FWL	
Change of **Surface** Footage from Exterior Section Lines				
Change of **Surface** Footage to Exterior Section Lines				
Change of **Bottomhole** Footage from Exterior Section Lines				
Change of **Bottomhole** Footage to Exterior Section Lines				attach directional survey

Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer:

Latitude: Distance to nearest property line: Distance to nearest bldg, public rd, utility or RR:
Longitude: Distance to nearest lease line: Is location in a High Density Area (rule 603b)? Yes/No NO
Ground Elevation: Distance to nearest well same formation: Surface owner consultation date: NA

GPS DATA:
Date of Measurement: PDOP Reading: Instrument Operator's Name:

☐ **CHANGE SPACING UNIT**

Formation	Formation Code	Spacing order number	Unit Acreage	Unit configuration

☐ **Remove from surface bond** Signed surface use agreement attached

☐ **CHANGE OF OPERATOR (prior to drilling):**
Effective Date:
Plugging Bond: ☐ Blanket ☐ Individual

☐ **CHANGE WELL NAME** NUMBER
From:
To:
Effective Date:

☐ **ABANDONED LOCATION:**
Was location ever built? ☐ Yes ☐ No
Is site ready for inspection? ☐ Yes ☐ No
Date Ready for Inspection:

☐ **NOTICE OF CONTINUED SHUT IN STATUS**
Date well shut in or temporarily abandoned:
Has Production Equipment been removed from site? ☐ Yes ☐ No
MIT required if shut in longer than two years. Date of last MIT:

☐ **SPUD DATE:**

☐ **REQUEST FOR CONFIDENTIAL STATUS** (6 mos from date casing set)

☐ **SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK** *submit cbl and cement job summaries

Method used	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom	Date

☐ **RECLAMATION:** Attach technical page describing final reclamation procedures per Rule 1004.
Final reclamation will commence on approximately:
☐ Final reclamation is completed and site is ready for inspection.

Technical Engineering/Environmental Notice

☐ Notice of Intent Approximate Start Date:
☐ Report of Work Done Date Work Completed:

Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)

☐ Intent to Recomplete (submit form 2)	☐ Request to Vent or Flare	☐ E&P Waste Disposal
☐ Change Drilling Plans	☐ Repair Well	☐ Beneficial Reuse of E&P Waste
☐ Gross Interval Changed?	☐ Rule 502 variance requested	☐ Status Update/Change of Remediation Plans for Spills and Releases
☐ Casing/Cementing Program Change	☒ Other: COA Compliance	

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Julia M Carter Date: 5/17/12 Email: julia.carter@encana.com
Print Name: Julia M. Carter Title: Regulatory Analyst

COGCC Approved: Title Env. Supv Date: 5/18/12
CONDITIONS OF APPROVAL, IF ANY:

FORM 4 Rev 12/05

TECHNICAL INFORMATION PAGE

FOR OGCC USE ONLY

1. OGCC Operator Number: 100185 API Number:
2. Name of Operator: Encana Oil & Gas (USA) Inc. OGCC Facility ID # 323905
3. Well/Facility Name: Standard Shale Well/Facility Number: 6401
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWNW Sec 9 T7S-R99W, 6th PM

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

5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**

Please find the attached water samples for Locations 414396, 424296, 291946 and 41405 to satisfy the COA outlined below.

The following COA was given upon approval of OXY USA and Encana Transfer and Receiving Water Reuse Plans:

Approval of this plan is contingent upon analytical laboratory results for representative samples of OXY USA A WTP LP (Oxy) flowback water from location IDs: 414396, 424296, 291946 and 41405. Results shall be submitted to the COGCC within 45 days of approval of this plan. Analytical laboratory analysis shall include:

Volatile organic compounds	EPA Method 624 (GC/MS)
Semi-volatile organic compounds	EPA Method 625 (GC/MS)
Dissolved metals	EPA Method 200.7 (ICP)
Dissolved inorganics (non-metals)	EPA Method 300.0 (IC)
- Br, CL, F, Nitrate/Nitrite, Sulfate	
General water quality parameters	
- Specific conductance	EPA Method 300.0 (IC)
- Hardness	EPA Method 130.1
- Total dissolved solids	EPA Method 160.1
- pH	EPA Method 150.2
- Alkalinity	EPA Method 310.1
Gross alpha and beta radioactivity	EPA Method 900.1

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

Est. 1970

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

Report Summary

Monday May 07, 2012

Report Number: L571909
Samples Received: 04/26/12
Client Project:

Description: Pond Water Transfer Sampling

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

Entire Report Reviewed By:

Mark W. Beasley , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.
Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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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 07, 2012

ESC Sample # : L571909-01

Date Received : April 26, 2012
Description : Pond Water Transfer Sampling

Site ID : POND 10IV1S-LW28-6

Sample ID : POND 10N

Project # :

Collected By : CJB
Collection Date : 04/25/12 09:43

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Bromide	75.	0.024	1.0	mg/l		300.0	04/26/12	1
Chloride	8200	11.	200	mg/l		300.0	04/26/12	200
Fluoride	U	0.010	0.10	mg/l		300.0	04/26/12	1
Nitrate	U	0.0091	0.10	mg/l		300.0	04/26/12	1
Nitrite	U	0.0033	0.10	mg/l		300.0	04/26/12	1
Sulfate	2.0	0.40	5.0	mg/l	J	300.0	04/26/12	1
Alkalinity	750	9.9	40.	mg/l		2320B	04/28/12	2
Hardness, Total (mg/L as CaCO3)	800	4.9	150	mg/l		130.1	05/01/12	5
pH	7.2			su	T8	4500H-B	04/28/12	1
Specific Conductance	250000			umhos/cm		120.1	04/28/12	1
Dissolved Solids	16000	3.4	10.	mg/l		2540C	05/01/12	1
Mercury,Dissolved	U	0.000015	0.00020	mg/l		245.1	05/01/12	1
Arsenic,Dissolved	U	0.0070	0.020	mg/l		200.7	05/05/12	1
Barium,Dissolved	47.	0.0017	0.0050	mg/l	V	200.7	05/05/12	1
Cadmium,Dissolved	U	0.0015	0.0050	mg/l		200.7	05/05/12	1
Chromium,Dissolved	0.0063	0.0034	0.010	mg/l	JP1	200.7	05/05/12	1
Lead,Dissolved	U	0.0020	0.0050	mg/l		200.7	05/05/12	1
Selenium,Dissolved	U	0.0067	0.020	mg/l		200.7	05/05/12	1
Silver,Dissolved	U	0.0031	0.010	mg/l		200.7	05/05/12	1
Volatile Organics								
Benzene	1.0	0.044	0.25	mg/l		624	04/27/12	250
Bromodichloromethane	U	0.052	0.25	mg/l		624	04/27/12	250
Bromoform	U	0.12	0.25	mg/l		624	04/27/12	250
Bromomethane	U	0.14	1.3	mg/l		624	04/27/12	250
Carbon tetrachloride	U	0.095	0.25	mg/l		624	04/27/12	250
Chlorobenzene	U	0.062	0.25	mg/l		624	04/27/12	250
Chlorodibromomethane	U	0.073	0.25	mg/l		624	04/27/12	250
Chloroethane	U	0.34	1.3	mg/l	J3	624	04/27/12	250
2-Chloroethyl vinyl ether	U	0.66	13.	mg/l		624	04/27/12	250
Chloroform	U	0.054	1.3	mg/l		624	04/27/12	250
Chloromethane	U	0.12	0.63	mg/l	J3	624	04/27/12	250
1,2-Dichlorobenzene	U	0.065	0.25	mg/l		624	04/27/12	250
1,3-Dichlorobenzene	U	0.062	0.25	mg/l		624	04/27/12	250
1,4-Dichlorobenzene	U	0.046	0.25	mg/l		624	04/27/12	250
Dichlorodifluoromethane	U	0.14	1.3	mg/l		624	04/27/12	250

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD
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Note:
The reported analytical results relate only to the sample submitted.

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Reported: 05/06/12 15:18 Revised: 05/07/12 09:54
L571909-01 (PH) - 7.2@20.1c
L571909-01 (SV625BNA) - Dilution due to matrix

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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 07, 2012

ESC Sample # : L571909-01

Date Received : April 26, 2012
Description : Pond Water Transfer Sampling

Site ID : POND 10IV1S-LW28-6

Sample ID : POND 10N

Project # :

Collected By : CJB
Collection Date : 04/25/12 09:43

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
1,1-Dichloroethane	U	0.073	0.25	mg/l		624	04/27/12	250
1,2-Dichloroethane	U	0.065	0.25	mg/l		624	04/27/12	250
1,1-Dichloroethene	U	0.10	0.25	mg/l		624	04/27/12	250
trans-1,2-Dichloroethene	U	0.072	0.25	mg/l		624	04/27/12	250
1,2-Dichloropropane	U	0.12	0.25	mg/l	J4	624	04/27/12	250
cis-1,3-Dichloropropene	U	0.058	0.25	mg/l		624	04/27/12	250
trans-1,3-Dichloropropene	U	0.096	0.25	mg/l		624	04/27/12	250
Ethylbenzene	0.24	0.068	0.25	mg/l	J	624	04/27/12	250
Methylene Chloride	U	0.20	1.3	mg/l		624	04/27/12	250
Methyl tert-butyl ether	U	0.066	1.3	mg/l		624	04/27/12	250
Naphthalene	0.46	0.17	1.3	mg/l	J	624	04/27/12	250
1,1,2,2-Tetrachloroethane	U	0.072	0.25	mg/l		624	04/27/12	250
Tetrachloroethene	U	0.059	0.25	mg/l		624	04/27/12	250
Toluene	3.3	0.041	1.3	mg/l		624	04/27/12	250
1,1,1-Trichloroethane	U	0.060	0.25	mg/l		624	04/27/12	250
1,1,2-Trichloroethane	U	0.095	0.25	mg/l		624	04/27/12	250
Trichloroethene	U	0.074	0.25	mg/l		624	04/27/12	250
Trichlorofluoromethane	U	0.12	1.3	mg/l		624	04/27/12	250
Vinyl chloride	U	0.070	0.25	mg/l	J3	624	04/27/12	250
Surrogate Recovery								
Toluene-d8	95.5			% Rec.		624	04/27/12	250
Dibromofluoromethane	96.3			% Rec.		624	04/27/12	250
a,a,a-Trifluorotoluene	108.			% Rec.		624	04/27/12	250
4-Bromofluorobenzene	126.			% Rec.	J1	624	04/27/12	250
Base/Neutral Extractables								
Acenaphthene	U	0.0036	0.020	mg/l		625	05/04/12	20
Acenaphthylene	U	0.0041	0.020	mg/l		625	05/04/12	20
Anthracene	U	0.0033	0.020	mg/l		625	05/04/12	20
Benzidine	U	0.042	0.20	mg/l		625	05/04/12	20
Benzo(a)anthracene	U	0.0037	0.020	mg/l		625	05/04/12	20
Benzo(b)fluoranthene	U	0.0076	0.020	mg/l		625	05/04/12	20
Benzo(k)fluoranthene	U	0.0053	0.020	mg/l		625	05/04/12	20
Benzo(g,h,i)perylene	U	0.0074	0.020	mg/l		625	05/04/12	20
Benzo(a)pyrene	U	0.0054	0.020	mg/l		625	05/04/12	20
Bis(2-chlorethoxy)methane	U	0.0043	0.20	mg/l		625	05/04/12	20
Bis(2-chloroethyl)ether	U	0.0043	0.20	mg/l		625	05/04/12	20
Bis(2-chloroisopropyl)ether	U	0.0062	0.20	mg/l		625	05/04/12	20
4-Bromophenyl-phenylether	U	0.0036	0.20	mg/l		625	05/04/12	20
2-Chloronaphthalene	U	0.0041	0.020	mg/l		625	05/04/12	20
4-Chlorophenyl-phenylether	U	0.0034	0.20	mg/l		625	05/04/12	20
Chrysene	U	0.0027	0.020	mg/l		625	05/04/12	20
Dibenz(a,h)anthracene	U	0.0050	0.020	mg/l		625	05/04/12	20

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L571909-01 (SV625BNA) - Dilution due to matrix

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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 07, 2012

ESC Sample # : L571909-01

Date Received : April 26, 2012
Description : Pond Water Transfer Sampling

Site ID : POND 10IV1S-LW28-6

Sample ID : POND 10N

Project # :

Collected By : CJB
Collection Date : 04/25/12 09:43

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
3,3-Dichlorobenzidine	U	0.034	0.20	mg/l		625	05/04/12	20
2,4-Dinitrotoluene	U	0.0044	0.20	mg/l		625	05/04/12	20
2,6-Dinitrotoluene	U	0.029	0.20	mg/l		625	05/04/12	20
1,2-Diphenylhydrazine	U	0.0033	0.20	mg/l		625	05/04/12	20
Fluoranthene	U	0.0068	0.020	mg/l		625	05/04/12	20
Fluorene	0.0040	0.0035	0.020	mg/l	J	625	05/04/12	20
Hexachlorobenzene	U	0.0045	0.020	mg/l		625	05/04/12	20
Hexachloro-1,3-butadiene	U	0.053	0.20	mg/l		625	05/04/12	20
Hexachlorocyclopentadiene	U	0.036	0.20	mg/l		625	05/04/12	20
Hexachloroethane	U	0.063	0.20	mg/l		625	05/04/12	20
Indeno(1,2,3-cd)pyrene	U	0.0067	0.020	mg/l		625	05/04/12	20
Isophorone	U	0.0048	0.20	mg/l		625	05/04/12	20
Naphthalene	0.072	0.0083	0.020	mg/l		625	05/04/12	20
Nitrobenzene	U	0.0040	0.20	mg/l	J4	625	05/04/12	20
n-Nitrosodimethylamine	U	0.051	0.20	mg/l		625	05/04/12	20
n-Nitrosodiphenylamine	U	0.0027	0.20	mg/l		625	05/04/12	20
n-Nitrosodi-n-propylamine	U	0.0062	0.20	mg/l		625	05/04/12	20
Phenanthrene	U	0.0041	0.020	mg/l		625	05/04/12	20
Benzylbutyl phthalate	U	0.0079	0.020	mg/l		625	05/04/12	20
Bis(2-ethylhexyl)phthalate	U	0.0099	0.020	mg/l		625	05/04/12	20
Di-n-butyl phthalate	U	0.0055	0.020	mg/l		625	05/04/12	20
Diethyl phthalate	U	0.0071	0.020	mg/l		625	05/04/12	20
Dimethyl phthalate	U	0.0068	0.020	mg/l		625	05/04/12	20
Di-n-octyl phthalate	U	0.0055	0.020	mg/l		625	05/04/12	20
Pyrene	U	0.0059	0.020	mg/l		625	05/04/12	20
1,2,4-Trichlorobenzene	U	0.0070	0.20	mg/l		625	05/04/12	20
Acid Extractables								
4-Chloro-3-methylphenol	U	0.0046	0.20	mg/l		625	05/04/12	20
2-Chlorophenol	U	0.0038	0.20	mg/l		625	05/04/12	20
2,4-Dichlorophenol	U	0.019	0.20	mg/l		625	05/04/12	20
2,4-Dimethylphenol	0.15	0.027	0.20	mg/l	J	625	05/04/12	20
4,6-Dinitro-2-methylphenol	U	0.052	0.20	mg/l		625	05/04/12	20
2,4-Dinitrophenol	U	0.046	0.20	mg/l		625	05/04/12	20
2-Nitrophenol	U	0.0056	0.20	mg/l		625	05/04/12	20
4-Nitrophenol	U	0.055	0.20	mg/l		625	05/04/12	20
Pentachlorophenol	U	0.0081	0.20	mg/l		625	05/04/12	20
Phenol	0.17	0.023	0.20	mg/l	J	625	05/04/12	20
2,4,6-Trichlorophenol	U	0.0056	0.20	mg/l		625	05/04/12	20
Surrogate Recovery								
Nitrobenzene-d5	109.			% Rec.	J7	625	05/04/12	20
2-Fluorobiphenyl	82.9			% Rec.	J7	625	05/04/12	20
p-Terphenyl-d14	52.2			% Rec.	J7	625	05/04/12	20
Phenol-d5	49.6			% Rec.	J7	625	05/04/12	20

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L571909-01 (SV625BNA) - Dilution due to matrix

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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 07, 2012

ESC Sample # : L571909-01

Date Received : April 26, 2012
Description : Pond Water Transfer Sampling

Site ID : POND 10IV1S-LW28-6

Sample ID : POND 10N

Project # :

Collected By : CJB
Collection Date : 04/25/12 09:43

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Fluorophenol	52.5			% Rec.	J7	625	05/04/12	20
2,4,6-Tribromophenol	124.			% Rec.	J7	625	05/04/12	20

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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 07, 2012

ESC Sample # : L571909-02

Date Received : April 26, 2012
Description : Pond Water Transfer Sampling

Site ID : POND 10IV1S-LW28-6

Sample ID : LW 28-10

Project # :

Collected By : CJB
Collection Date : 04/25/12 10:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Bromide	82.	0.024	1.0	mg/l		300.0	04/26/12	1
Chloride	11000	11.	200	mg/l		300.0	04/26/12	200
Fluoride	U	0.010	0.10	mg/l		300.0	04/26/12	1
Nitrate	U	0.0091	0.10	mg/l		300.0	04/26/12	1
Nitrite	U	0.0033	0.10	mg/l		300.0	04/26/12	1
Sulfate	39.	0.40	5.0	mg/l		300.0	04/26/12	1
Alkalinity	700	25.	100	mg/l		2320B	04/28/12	5
Hardness, Total (mg/L as CaCO3)	760	4.9	150	mg/l		130.1	05/01/12	5
pH	6.4			su	T8	4500H-B	04/28/12	1
Specific Conductance	280000			umhos/cm		120.1	04/28/12	1
Dissolved Solids	18000	3.4	10.	mg/l		2540C	05/03/12	1
Mercury,Dissolved	U	0.000015	0.00020	mg/l		245.1	05/01/12	1
Arsenic,Dissolved	U	0.0070	0.020	mg/l		200.7	05/05/12	1
Barium,Dissolved	36.	0.0017	0.0050	mg/l		200.7	05/05/12	1
Cadmium,Dissolved	U	0.0015	0.0050	mg/l		200.7	05/05/12	1
Chromium,Dissolved	0.017	0.0034	0.010	mg/l		200.7	05/05/12	1
Lead,Dissolved	U	0.0020	0.0050	mg/l		200.7	05/05/12	1
Selenium,Dissolved	U	0.0067	0.020	mg/l		200.7	05/05/12	1
Silver,Dissolved	U	0.0031	0.010	mg/l		200.7	05/05/12	1
Volatile Organics								
Benzene	12.	0.089	0.50	mg/l		624	05/01/12	500
Bromodichloromethane	U	0.10	0.50	mg/l		624	05/01/12	500
Bromoform	U	0.23	0.50	mg/l		624	05/01/12	500
Bromomethane	U	0.28	2.5	mg/l		624	05/01/12	500
Carbon tetrachloride	U	0.19	0.50	mg/l		624	05/01/12	500
Chlorobenzene	U	0.12	0.50	mg/l		624	05/01/12	500
Chlorodibromomethane	U	0.15	0.50	mg/l		624	05/01/12	500
Chloroethane	U	0.68	2.5	mg/l		624	05/01/12	500
2-Chloroethyl vinyl ether	U	1.3	25.	mg/l		624	05/01/12	500
Chloroform	U	0.11	2.5	mg/l		624	05/01/12	500
Chloromethane	U	0.23	1.3	mg/l		624	05/01/12	500
1,2-Dichlorobenzene	U	0.13	0.50	mg/l		624	05/01/12	500
1,3-Dichlorobenzene	U	0.12	0.50	mg/l		624	05/01/12	500
1,4-Dichlorobenzene	U	0.093	0.50	mg/l		624	05/01/12	500
Dichlorodifluoromethane	U	0.29	2.5	mg/l		624	05/01/12	500

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD
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Reported: 05/06/12 15:18 Revised: 05/07/12 09:54
L571909-02 (PH) - 6.4@19.2c
L571909-02 (SV625BNA) - Dilution due to matrix

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Est. 1970

REPORT OF ANALYSIS

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

May 07, 2012

ESC Sample # : L571909-02

Date Received : April 26, 2012
Description : Pond Water Transfer Sampling

Site ID : POND 10IV1S-LW28-6

Sample ID : LW 28-10

Project # :

Collected By : CJB
Collection Date : 04/25/12 10:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
1,1-Dichloroethane	U	0.15	0.50	mg/l		624	05/01/12	500
1,2-Dichloroethane	U	0.13	0.50	mg/l		624	05/01/12	500
1,1-Dichloroethene	U	0.20	0.50	mg/l		624	05/01/12	500
trans-1,2-Dichloroethene	U	0.14	0.50	mg/l		624	05/01/12	500
1,2-Dichloropropane	U	0.23	0.50	mg/l		624	05/01/12	500
cis-1,3-Dichloropropene	U	0.12	0.50	mg/l		624	05/01/12	500
trans-1,3-Dichloropropene	U	0.19	0.50	mg/l		624	05/01/12	500
Ethylbenzene	0.89	0.14	0.50	mg/l		624	05/01/12	500
Methylene Chloride	U	0.40	2.5	mg/l		624	05/01/12	500
Methyl tert-butyl ether	U	0.13	2.5	mg/l		624	05/01/12	500
Naphthalene	U	0.35	2.5	mg/l		624	05/01/12	500
1,1,2,2-Tetrachloroethane	U	0.14	0.50	mg/l		624	05/01/12	500
Tetrachloroethene	U	0.12	0.50	mg/l		624	05/01/12	500
Toluene	24.	0.082	2.5	mg/l		624	05/01/12	500
1,1,1-Trichloroethane	U	0.12	0.50	mg/l		624	05/01/12	500
1,1,2-Trichloroethane	U	0.19	0.50	mg/l		624	05/01/12	500
Trichloroethene	U	0.15	0.50	mg/l		624	05/01/12	500
Trichlorofluoromethane	U	0.24	2.5	mg/l		624	05/01/12	500
Vinyl chloride	U	0.14	0.50	mg/l		624	05/01/12	500
Surrogate Recovery								
Toluene-d8	104.			% Rec.		624	05/01/12	500
Dibromofluoromethane	109.			% Rec.		624	05/01/12	500
a,a,a-Trifluorotoluene	112.			% Rec.		624	05/01/12	500
4-Bromofluorobenzene	113.			% Rec.		624	05/01/12	500
Base/Neutral Extractables								
Acenaphthene	U	0.0036	0.020	mg/l		625	05/04/12	20
Acenaphthylene	U	0.0041	0.020	mg/l		625	05/04/12	20
Anthracene	U	0.0033	0.020	mg/l		625	05/04/12	20
Benzidine	U	0.042	0.20	mg/l		625	05/04/12	20
Benzo(a)anthracene	U	0.0037	0.020	mg/l		625	05/04/12	20
Benzo(b)fluoranthene	U	0.0076	0.020	mg/l		625	05/04/12	20
Benzo(k)fluoranthene	U	0.0053	0.020	mg/l		625	05/04/12	20
Benzo(g,h,i)perylene	U	0.0074	0.020	mg/l		625	05/04/12	20
Benzo(a)pyrene	U	0.0054	0.020	mg/l		625	05/04/12	20
Bis(2-chlorethoxy)methane	U	0.0043	0.20	mg/l		625	05/04/12	20
Bis(2-chloroethyl)ether	U	0.0043	0.20	mg/l		625	05/04/12	20
Bis(2-chloroisopropyl)ether	U	0.0062	0.20	mg/l		625	05/04/12	20
4-Bromophenyl-phenylether	U	0.0036	0.20	mg/l		625	05/04/12	20
2-Chloronaphthalene	U	0.0041	0.020	mg/l		625	05/04/12	20
4-Chlorophenyl-phenylether	U	0.0034	0.20	mg/l		625	05/04/12	20
Chrysene	U	0.0027	0.020	mg/l		625	05/04/12	20
Dibenz(a,h)anthracene	U	0.0050	0.020	mg/l		625	05/04/12	20

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L571909-02 (SV625BNA) - Dilution due to matrix

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Est. 1970

REPORT OF ANALYSIS

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

May 07, 2012

ESC Sample # : L571909-02

Date Received : April 26, 2012
Description : Pond Water Transfer Sampling

Site ID : POND 10IV1S-LW28-6

Sample ID : LW 28-10

Project # :

Collected By : CJB
Collection Date : 04/25/12 10:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
3,3-Dichlorobenzidine	U	0.034	0.20	mg/l		625	05/04/12	20
2,4-Dinitrotoluene	U	0.0044	0.20	mg/l		625	05/04/12	20
2,6-Dinitrotoluene	U	0.029	0.20	mg/l		625	05/04/12	20
1,2-Diphenylhydrazine	U	0.0033	0.20	mg/l		625	05/04/12	20
Fluoranthene	U	0.0068	0.020	mg/l		625	05/04/12	20
Fluorene	U	0.0035	0.020	mg/l		625	05/04/12	20
Hexachlorobenzene	U	0.0045	0.020	mg/l		625	05/04/12	20
Hexachloro-1,3-butadiene	U	0.053	0.20	mg/l		625	05/04/12	20
Hexachlorocyclopentadiene	U	0.036	0.20	mg/l		625	05/04/12	20
Hexachloroethane	U	0.063	0.20	mg/l		625	05/04/12	20
Indeno(1,2,3-cd)pyrene	U	0.0067	0.020	mg/l		625	05/04/12	20
Isophorone	0.0059	0.0048	0.20	mg/l	J	625	05/04/12	20
Naphthalene	0.12	0.0083	0.020	mg/l		625	05/04/12	20
Nitrobenzene	U	0.0040	0.20	mg/l	J4	625	05/04/12	20
n-Nitrosodimethylamine	U	0.051	0.20	mg/l		625	05/04/12	20
n-Nitrosodiphenylamine	U	0.0027	0.20	mg/l		625	05/04/12	20
n-Nitrosodi-n-propylamine	U	0.0062	0.20	mg/l		625	05/04/12	20
Phenanthrene	U	0.0041	0.020	mg/l		625	05/04/12	20
Benzylbutyl phthalate	U	0.0079	0.020	mg/l		625	05/04/12	20
Bis(2-ethylhexyl)phthalate	U	0.0099	0.020	mg/l		625	05/04/12	20
Di-n-butyl phthalate	U	0.0055	0.020	mg/l		625	05/04/12	20
Diethyl phthalate	U	0.0071	0.020	mg/l		625	05/04/12	20
Dimethyl phthalate	U	0.0068	0.020	mg/l		625	05/04/12	20
Di-n-octyl phthalate	U	0.0055	0.020	mg/l		625	05/04/12	20
Pyrene	U	0.0059	0.020	mg/l		625	05/04/12	20
1,2,4-Trichlorobenzene	U	0.0070	0.20	mg/l		625	05/04/12	20
Acid Extractables								
4-Chloro-3-methylphenol	U	0.0046	0.20	mg/l		625	05/04/12	20
2-Chlorophenol	U	0.0038	0.20	mg/l		625	05/04/12	20
2,4-Dichlorophenol	U	0.019	0.20	mg/l		625	05/04/12	20
2,4-Dimethylphenol	0.26	0.027	0.20	mg/l		625	05/04/12	20
4,6-Dinitro-2-methylphenol	U	0.052	0.20	mg/l		625	05/04/12	20
2,4-Dinitrophenol	U	0.046	0.20	mg/l		625	05/04/12	20
2-Nitrophenol	U	0.0056	0.20	mg/l		625	05/04/12	20
4-Nitrophenol	U	0.055	0.20	mg/l		625	05/04/12	20
Pentachlorophenol	U	0.0081	0.20	mg/l		625	05/04/12	20
Phenol	0.32	0.023	0.20	mg/l		625	05/04/12	20
2,4,6-Trichlorophenol	U	0.0056	0.20	mg/l		625	05/04/12	20
Surrogate Recovery								
Nitrobenzene-d5	26.8			% Rec.	J7	625	05/04/12	20
2-Fluorobiphenyl	106.			% Rec.	J7	625	05/04/12	20
p-Terphenyl-d14	95.4			% Rec.	J7	625	05/04/12	20
Phenol-d5	83.4			% Rec.	J7	625	05/04/12	20

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Reported: 05/06/12 15:18 Revised: 05/07/12 09:54
L571909-02 (PH) - 6.4@19.2c
L571909-02 (SV625BNA) - Dilution due to matrix

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Est. 1970

REPORT OF ANALYSIS

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

May 07, 2012

ESC Sample # : L571909-02

Date Received : April 26, 2012
Description : Pond Water Transfer Sampling

Site ID : POND 10IV1S-LW28-6

Sample ID : LW 28-10

Project # :

Collected By : CJB
Collection Date : 04/25/12 10:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Fluorophenol	21.3			% Rec.	J7	625	05/04/12	20
2,4,6-Tribromophenol	143.			% Rec.	J7	625	05/04/12	20

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L571909-02 (PH) - 6.4@19.2c
L571909-02 (SV625BNA) - Dilution due to matrix

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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 07, 2012

ESC Sample # : L571909-03

Date Received : April 26, 2012
Description : Pond Water Transfer Sampling

Site ID : POND 10IV1S-LW28-6

Sample ID : POND 10S

Project # :

Collected By : CJB
Collection Date : 04/25/12 11:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Bromide	78.	0.024	1.0	mg/l		300.0	04/26/12	1
Chloride	10000	11.	200	mg/l		300.0	04/26/12	200
Fluoride	U	0.010	0.10	mg/l		300.0	04/26/12	1
Nitrate	U	0.0091	0.10	mg/l		300.0	04/26/12	1
Nitrite	U	0.0033	0.10	mg/l		300.0	04/26/12	1
Sulfate	20.	0.40	5.0	mg/l		300.0	04/26/12	1
Alkalinity	840	50.	200	mg/l		2320B	04/28/12	10
Hardness, Total (mg/L as CaCO3)	920	4.9	150	mg/l		130.1	05/01/12	5
pH	7.5			su	T8	4500H-B	04/28/12	1
Specific Conductance	28000			umhos/cm		120.1	05/01/12	1
Dissolved Solids	17000	3.4	10.	mg/l		2540C	05/03/12	1
Mercury,Dissolved	U	0.000015	0.00020	mg/l		245.1	05/01/12	1
Arsenic,Dissolved	U	0.0070	0.020	mg/l		200.7	05/05/12	1
Barium,Dissolved	34.	0.0017	0.0050	mg/l		200.7	05/05/12	1
Cadmium,Dissolved	U	0.0015	0.0050	mg/l		200.7	05/05/12	1
Chromium,Dissolved	0.0069	0.0034	0.010	mg/l	J	200.7	05/05/12	1
Lead,Dissolved	U	0.0020	0.0050	mg/l		200.7	05/05/12	1
Selenium,Dissolved	U	0.0067	0.020	mg/l		200.7	05/05/12	1
Silver,Dissolved	U	0.0031	0.010	mg/l		200.7	05/05/12	1
Volatile Organics								
Benzene	0.67	0.018	0.10	mg/l		624	04/27/12	100
Bromodichloromethane	U	0.021	0.10	mg/l		624	04/27/12	100
Bromoform	U	0.046	0.10	mg/l		624	04/27/12	100
Bromomethane	U	0.057	0.50	mg/l		624	04/27/12	100
Carbon tetrachloride	U	0.038	0.10	mg/l		624	04/27/12	100
Chlorobenzene	U	0.025	0.10	mg/l		624	04/27/12	100
Chlorodibromomethane	U	0.029	0.10	mg/l		624	04/27/12	100
Chloroethane	U	0.14	0.50	mg/l	J3	624	04/27/12	100
2-Chloroethyl vinyl ether	U	0.27	5.0	mg/l		624	04/27/12	100
Chloroform	U	0.022	0.50	mg/l		624	04/27/12	100
Chloromethane	U	0.046	0.25	mg/l	J3	624	04/27/12	100
1,2-Dichlorobenzene	U	0.026	0.10	mg/l		624	04/27/12	100
1,3-Dichlorobenzene	U	0.025	0.10	mg/l		624	04/27/12	100
1,4-Dichlorobenzene	U	0.019	0.10	mg/l		624	04/27/12	100
Dichlorodifluoromethane	U	0.057	0.50	mg/l		624	04/27/12	100

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L571909-03 (PH) - 7.5@20.8c
L571909-03 (SV625BNA) - Dilution due to matrix

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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 07, 2012

ESC Sample # : L571909-03

Date Received : April 26, 2012
Description : Pond Water Transfer Sampling

Site ID : POND 10IV1S-LW28-6

Sample ID : POND 10S

Project # :

Collected By : CJB
Collection Date : 04/25/12 11:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
1,1-Dichloroethane	U	0.029	0.10	mg/l		624	04/27/12	100
1,2-Dichloroethane	U	0.026	0.10	mg/l		624	04/27/12	100
1,1-Dichloroethene	U	0.040	0.10	mg/l		624	04/27/12	100
trans-1,2-Dichloroethene	U	0.029	0.10	mg/l		624	04/27/12	100
1,2-Dichloropropane	U	0.047	0.10	mg/l	J4	624	04/27/12	100
cis-1,3-Dichloropropene	U	0.023	0.10	mg/l		624	04/27/12	100
trans-1,3-Dichloropropene	U	0.039	0.10	mg/l		624	04/27/12	100
Ethylbenzene	0.11	0.027	0.10	mg/l		624	04/27/12	100
Methylene Chloride	U	0.079	0.50	mg/l		624	04/27/12	100
Methyl tert-butyl ether	U	0.027	0.50	mg/l		624	04/27/12	100
Naphthalene	U	0.069	0.50	mg/l		624	04/27/12	100
1,1,2,2-Tetrachloroethane	U	0.029	0.10	mg/l		624	04/27/12	100
Tetrachloroethene	U	0.024	0.10	mg/l		624	04/27/12	100
Toluene	2.0	0.016	0.50	mg/l		624	04/27/12	100
1,1,1-Trichloroethane	U	0.024	0.10	mg/l		624	04/27/12	100
1,1,2-Trichloroethane	U	0.038	0.10	mg/l		624	04/27/12	100
Trichloroethene	U	0.029	0.10	mg/l		624	04/27/12	100
Trichlorofluoromethane	U	0.049	0.50	mg/l		624	04/27/12	100
Vinyl chloride	U	0.028	0.10	mg/l	J3	624	04/27/12	100
Surrogate Recovery								
Toluene-d8	93.0			% Rec.		624	04/27/12	100
Dibromofluoromethane	96.2			% Rec.		624	04/27/12	100
a,a,a-Trifluorotoluene	106.			% Rec.		624	04/27/12	100
4-Bromofluorobenzene	117.			% Rec.		624	04/27/12	100
Base/Neutral Extractables								
Acenaphthene	U	0.0018	0.010	mg/l		625	05/04/12	10
Acenaphthylene	U	0.0021	0.010	mg/l		625	05/04/12	10
Anthracene	U	0.0017	0.010	mg/l		625	05/04/12	10
Benzidine	U	0.021	0.10	mg/l		625	05/04/12	10
Benzo(a)anthracene	U	0.0019	0.010	mg/l		625	05/04/12	10
Benzo(b)fluoranthene	U	0.0038	0.010	mg/l		625	05/04/12	10
Benzo(k)fluoranthene	U	0.0026	0.010	mg/l		625	05/04/12	10
Benzo(g,h,i)perylene	U	0.0037	0.010	mg/l		625	05/04/12	10
Benzo(a)pyrene	U	0.0027	0.010	mg/l		625	05/04/12	10
Bis(2-chlorethoxy)methane	U	0.0021	0.10	mg/l		625	05/04/12	10
Bis(2-chloroethyl)ether	U	0.0021	0.10	mg/l		625	05/04/12	10
Bis(2-chloroisopropyl)ether	U	0.0031	0.10	mg/l		625	05/04/12	10
4-Bromophenyl-phenylether	U	0.0018	0.10	mg/l		625	05/04/12	10
2-Chloronaphthalene	U	0.0020	0.010	mg/l		625	05/04/12	10
4-Chlorophenyl-phenylether	U	0.0017	0.10	mg/l		625	05/04/12	10
Chrysene	U	0.0013	0.010	mg/l		625	05/04/12	10
Dibenz(a,h)anthracene	U	0.0025	0.010	mg/l		625	05/04/12	10

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: 05/06/12 15:18 Revised: 05/07/12 09:54
L571909-03 (PH) - 7.5@20.8c
L571909-03 (SV625BNA) - Dilution due to matrix

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Est. 1970

REPORT OF ANALYSIS

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

May 07, 2012

ESC Sample # : L571909-03

Date Received : April 26, 2012
Description : Pond Water Transfer Sampling

Site ID : POND 10IV1S-LW28-6

Sample ID : POND 10S

Project # :

Collected By : CJB
Collection Date : 04/25/12 11:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
3,3-Dichlorobenzidine	U	0.017	0.10	mg/l		625	05/04/12	10
2,4-Dinitrotoluene	U	0.0022	0.10	mg/l		625	05/04/12	10
2,6-Dinitrotoluene	U	0.014	0.10	mg/l		625	05/04/12	10
1,2-Diphenylhydrazine	0.0016	0.0016	0.10	mg/l	J	625	05/04/12	10
Fluoranthene	U	0.0034	0.010	mg/l		625	05/04/12	10
Fluorene	U	0.0018	0.010	mg/l		625	05/04/12	10
Hexachlorobenzene	U	0.0023	0.010	mg/l		625	05/04/12	10
Hexachloro-1,3-butadiene	U	0.026	0.10	mg/l		625	05/04/12	10
Hexachlorocyclopentadiene	U	0.018	0.10	mg/l		625	05/04/12	10
Hexachloroethane	U	0.031	0.10	mg/l		625	05/04/12	10
Indeno(1,2,3-cd)pyrene	U	0.0033	0.010	mg/l		625	05/04/12	10
Isophorone	U	0.0024	0.10	mg/l		625	05/04/12	10
Naphthalene	U	0.0041	0.010	mg/l		625	05/04/12	10
Nitrobenzene	U	0.0020	0.10	mg/l	J4	625	05/04/12	10
n-Nitrosodimethylamine	U	0.026	0.10	mg/l		625	05/04/12	10
n-Nitrosodiphenylamine	U	0.0014	0.10	mg/l		625	05/04/12	10
n-Nitrosodi-n-propylamine	U	0.0031	0.10	mg/l		625	05/04/12	10
Phenanthrene	U	0.0021	0.010	mg/l		625	05/04/12	10
Benzylbutyl phthalate	U	0.0040	0.010	mg/l		625	05/04/12	10
Bis(2-ethylhexyl)phthalate	U	0.0050	0.010	mg/l		625	05/04/12	10
Di-n-butyl phthalate	U	0.0028	0.010	mg/l		625	05/04/12	10
Diethyl phthalate	U	0.0036	0.010	mg/l		625	05/04/12	10
Dimethyl phthalate	U	0.0034	0.010	mg/l		625	05/04/12	10
Di-n-octyl phthalate	U	0.0028	0.010	mg/l		625	05/04/12	10
Pyrene	U	0.0030	0.010	mg/l		625	05/04/12	10
1,2,4-Trichlorobenzene	U	0.0035	0.10	mg/l		625	05/04/12	10
Acid Extractables								
4-Chloro-3-methylphenol	U	0.0023	0.10	mg/l		625	05/04/12	10
2-Chlorophenol	U	0.0019	0.10	mg/l		625	05/04/12	10
2,4-Dichlorophenol	U	0.0097	0.10	mg/l		625	05/04/12	10
2,4-Dimethylphenol	0.18	0.013	0.10	mg/l		625	05/04/12	10
4,6-Dinitro-2-methylphenol	U	0.026	0.10	mg/l		625	05/04/12	10
2,4-Dinitrophenol	U	0.023	0.10	mg/l		625	05/04/12	10
2-Nitrophenol	U	0.0028	0.10	mg/l		625	05/04/12	10
4-Nitrophenol	U	0.027	0.10	mg/l		625	05/04/12	10
Pentachlorophenol	U	0.0041	0.10	mg/l		625	05/04/12	10
Phenol	0.25	0.011	0.10	mg/l		625	05/04/12	10
2,4,6-Trichlorophenol	U	0.0028	0.10	mg/l		625	05/04/12	10
Surrogate Recovery								
Nitrobenzene-d5	69.5			% Rec.		625	05/04/12	10
2-Fluorobiphenyl	103.			% Rec.		625	05/04/12	10
p-Terphenyl-d14	62.3			% Rec.		625	05/04/12	10
Phenol-d5	25.3			% Rec.		625	05/04/12	10

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: 05/06/12 15:18 Revised: 05/07/12 09:54
L571909-03 (PH) - 7.5@20.8c
L571909-03 (SV625BNA) - Dilution due to matrix

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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 07, 2012

ESC Sample # : L571909-03

Date Received : April 26, 2012
Description : Pond Water Transfer Sampling

Site ID : POND 10IV1S-LW28-6

Sample ID : POND 10S

Project # :

Collected By : CJB
Collection Date : 04/25/12 11:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Fluorophenol	29.8			% Rec.		625	05/04/12	10
2,4,6-Tribromophenol	69.2			% Rec.		625	05/04/12	10

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD
RDL = Reported Detection Limit = LOQ = PQL = EQL
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Reported: 05/06/12 15:18 Revised: 05/07/12 09:54
L571909-03 (PH) - 7.5@20.8c
L571909-03 (SV625BNA) - Dilution due to matrix

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L571909-01	WG589790	SAMP	pH	R2148834	T8
	WG590475	SAMP	Barium,Dissolved	R2157637	V
	WG590475	SAMP	Chromium,Dissolved	R2157637	JP1
	WG589722	SAMP	Sulfate	R2145413	J
	WG589865	SAMP	Chloroethane	R2149693	J3
	WG589865	SAMP	Chloromethane	R2149693	J3
	WG589865	SAMP	1,2-Dichloropropane	R2149693	J4
	WG589865	SAMP	Ethylbenzene	R2149693	J
	WG589865	SAMP	Naphthalene	R2149693	J
	WG589865	SAMP	Vinyl chloride	R2149693	J3
	WG589865	SAMP	4-Bromofluorobenzene	R2149693	J1
	WG590026	SAMP	Fluorene	R2149713	J
	WG590026	SAMP	Nitrobenzene	R2149713	J4
	WG590026	SAMP	2,4-Dimethylphenol	R2149713	J
	WG590026	SAMP	Phenol	R2149713	J
	WG590026	SAMP	Nitrobenzene-d5	R2149713	J7
	WG590026	SAMP	2-Fluorobiphenyl	R2149713	J7
	WG590026	SAMP	p-Terphenyl-d14	R2149713	J7
	WG590026	SAMP	Phenol-d5	R2149713	J7
	WG590026	SAMP	2-Fluorophenol	R2149713	J7
	WG590026	SAMP	2,4,6-Tribromophenol	R2149713	J7
L571909-02	WG589790	SAMP	pH	R2148834	T8
	WG590026	SAMP	Isophorone	R2149713	J
	WG590026	SAMP	Nitrobenzene	R2149713	J4
	WG590026	SAMP	Nitrobenzene-d5	R2149713	J7
	WG590026	SAMP	2-Fluorobiphenyl	R2149713	J7
	WG590026	SAMP	p-Terphenyl-d14	R2149713	J7
	WG590026	SAMP	Phenol-d5	R2149713	J7
	WG590026	SAMP	2-Fluorophenol	R2149713	J7
	WG590026	SAMP	2,4,6-Tribromophenol	R2149713	J7
L571909-03	WG589790	SAMP	pH	R2148834	T8
	WG590475	SAMP	Chromium,Dissolved	R2157637	J
	WG589865	SAMP	Chloroethane	R2149693	J3
	WG589865	SAMP	Chloromethane	R2149693	J3
	WG589865	SAMP	1,2-Dichloropropane	R2149693	J4
	WG589865	SAMP	Vinyl chloride	R2149693	J3
	WG590026	SAMP	1,2-Diphenylhydrazine	R2149713	J
	WG590026	SAMP	Nitrobenzene	R2149713	J4

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.
J4	The associated batch QC was outside the established quality control range for accuracy.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.
V	(ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.

Qualifier Report Information

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

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography 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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Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

Report Summary

Monday May 07, 2012

Report Number: L571681
Samples Received: 04/25/12
Client Project:

Description: Pond Water Transfer Sampling

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

Entire Report Reviewed By:

Mark W. Beasley , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.
Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

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

May 07, 2012

ESC Sample # : L571681-01

Date Received : April 25, 2012
Description : Pond Water Transfer Sampling

Site ID :

Sample ID : POND 12

Project # :

Collected By : CJB
Collection Date : 04/24/12 13:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Bromide	77.	0.024	1.0	mg/l		300.0	04/25/12	1
Chloride	10000	11.	200	mg/l		300.0	04/26/12	200
Fluoride	U	0.010	0.10	mg/l		300.0	04/25/12	1
Nitrate	U	0.0091	0.10	mg/l		300.0	04/25/12	1
Nitrite	U	0.0033	0.10	mg/l		300.0	04/25/12	1
Sulfate	2.7	0.40	5.0	mg/l	J	300.0	04/25/12	1
Alkalinity	750	25.	100	mg/l		2320B	04/27/12	5
Hardness, Total (mg/L as CaCO3)	760	4.9	150	mg/l		130.1	05/01/12	5
pH	7.3			su	T8	4500H-B	04/27/12	1
Specific Conductance	260000			umhos/cm		120.1	04/28/12	1
Dissolved Solids	17000	3.4	10.	mg/l		2540C	04/30/12	1
Mercury,Dissolved	U	0.000015	0.00020	mg/l		245.1	05/02/12	1
Arsenic,Dissolved	U	0.0070	0.020	mg/l		200.7	05/01/12	1
Barium,Dissolved	47.	0.0017	0.0050	mg/l		200.7	05/01/12	1
Cadmium,Dissolved	0.0024	0.0015	0.0050	mg/l	J	200.7	05/01/12	1
Chromium,Dissolved	0.0045	0.0034	0.010	mg/l	J	200.7	05/01/12	1
Lead,Dissolved	U	0.0020	0.0050	mg/l		200.7	05/01/12	1
Selenium,Dissolved	U	0.0067	0.020	mg/l		200.7	05/01/12	1
Silver,Dissolved	U	0.0031	0.010	mg/l		200.7	05/01/12	1
Volatile Organics								
Benzene	0.80	0.0036	0.020	mg/l		624	04/27/12	20
Bromodichloromethane	U	0.0042	0.020	mg/l		624	04/27/12	20
Bromoform	U	0.0093	0.020	mg/l		624	04/27/12	20
Bromomethane	U	0.011	0.10	mg/l		624	04/27/12	20
Carbon tetrachloride	U	0.0076	0.020	mg/l		624	04/27/12	20
Chlorobenzene	U	0.0049	0.020	mg/l		624	04/27/12	20
Chlorodibromomethane	U	0.0059	0.020	mg/l		624	04/27/12	20
Chloroethane	U	0.027	0.10	mg/l		624	04/27/12	20
2-Chloroethyl vinyl ether	U	0.053	1.0	mg/l		624	04/27/12	20
Chloroform	U	0.0043	0.10	mg/l		624	04/27/12	20
Chloromethane	U	0.0093	0.050	mg/l		624	04/27/12	20
1,2-Dichlorobenzene	U	0.0052	0.020	mg/l		624	04/27/12	20
1,3-Dichlorobenzene	U	0.0050	0.020	mg/l		624	04/27/12	20
1,4-Dichlorobenzene	U	0.0037	0.020	mg/l		624	04/27/12	20
Dichlorodifluoromethane	U	0.011	0.10	mg/l		624	04/27/12	20

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD
RDL = Reported Detection Limit = LOQ = PQL = EQL
Note:
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Reported: 05/06/12 15:06 Revised: 05/07/12 09:53
L571681-01 (SV625BNA) - Dilution due to matrix
L571681-01 (PH) - 7.3@19.4c

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REPORT OF ANALYSIS

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

May 07, 2012

ESC Sample # : L571681-01

Date Received : April 25, 2012
Description : Pond Water Transfer Sampling

Site ID :

Sample ID : POND 12

Project # :

Collected By : CJB
Collection Date : 04/24/12 13:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
1,1-Dichloroethane	U	0.0059	0.020	mg/l		624	04/27/12	20
1,2-Dichloroethane	U	0.0052	0.020	mg/l		624	04/27/12	20
1,1-Dichloroethene	U	0.0080	0.020	mg/l		624	04/27/12	20
trans-1,2-Dichloroethene	U	0.0057	0.020	mg/l		624	04/27/12	20
1,2-Dichloropropane	U	0.0093	0.020	mg/l		624	04/27/12	20
cis-1,3-Dichloropropene	U	0.0047	0.020	mg/l		624	04/27/12	20
trans-1,3-Dichloropropene	U	0.0077	0.020	mg/l		624	04/27/12	20
Ethylbenzene	0.10	0.0055	0.020	mg/l		624	04/27/12	20
Methylene Chloride	U	0.016	0.10	mg/l		624	04/27/12	20
Methyl tert-butyl ether	U	0.0053	0.10	mg/l		624	04/27/12	20
Naphthalene	0.071	0.014	0.10	mg/l	J	624	04/27/12	20
1,1,2,2-Tetrachloroethane	U	0.0058	0.020	mg/l		624	04/27/12	20
Tetrachloroethene	U	0.0047	0.020	mg/l		624	04/27/12	20
Toluene	2.2	0.0033	0.10	mg/l		624	04/27/12	20
1,1,1-Trichloroethane	U	0.0048	0.020	mg/l		624	04/27/12	20
1,1,2-Trichloroethane	U	0.0076	0.020	mg/l		624	04/27/12	20
Trichloroethene	U	0.0059	0.020	mg/l		624	04/27/12	20
Trichlorofluoromethane	U	0.0098	0.10	mg/l		624	04/27/12	20
Vinyl chloride	U	0.0056	0.020	mg/l		624	04/27/12	20
Surrogate Recovery								
Toluene-d8	104.			% Rec.		624	04/27/12	20
Dibromofluoromethane	99.3			% Rec.		624	04/27/12	20
a,a,a-Trifluorotoluene	108.			% Rec.		624	04/27/12	20
4-Bromofluorobenzene	100.			% Rec.		624	04/27/12	20
Base/Neutral Extractables								
Acenaphthene	U	0.0036	0.020	mg/l		625	05/04/12	20
Acenaphthylene	U	0.0041	0.020	mg/l		625	05/04/12	20
Anthracene	U	0.0033	0.020	mg/l		625	05/04/12	20
Benzidine	U	0.042	0.20	mg/l		625	05/04/12	20
Benzo(a)anthracene	U	0.0037	0.020	mg/l		625	05/04/12	20
Benzo(b)fluoranthene	U	0.0076	0.020	mg/l		625	05/04/12	20
Benzo(k)fluoranthene	U	0.0053	0.020	mg/l		625	05/04/12	20
Benzo(g,h,i)perylene	U	0.0074	0.020	mg/l		625	05/04/12	20
Benzo(a)pyrene	U	0.0054	0.020	mg/l		625	05/04/12	20
Bis(2-chlorethoxy)methane	U	0.0043	0.20	mg/l		625	05/04/12	20
Bis(2-chloroethyl)ether	U	0.0043	0.20	mg/l		625	05/04/12	20
Bis(2-chloroisopropyl)ether	U	0.0062	0.20	mg/l		625	05/04/12	20
4-Bromophenyl-phenylether	U	0.0036	0.20	mg/l		625	05/04/12	20
2-Chloronaphthalene	U	0.0041	0.020	mg/l		625	05/04/12	20
4-Chlorophenyl-phenylether	U	0.0034	0.20	mg/l		625	05/04/12	20
Chrysene	U	0.0027	0.020	mg/l		625	05/04/12	20
Dibenz(a,h)anthracene	U	0.0050	0.020	mg/l		625	05/04/12	20

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD
RDL = Reported Detection Limit = LOQ = PQL = EQL
Note:
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Reported: 05/06/12 15:06 Revised: 05/07/12 09:53
L571681-01 (SV625BNA) - Dilution due to matrix
L571681-01 (PH) - 7.3@19.4c

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REPORT OF ANALYSIS

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

May 07, 2012

ESC Sample # : L571681-01

Date Received : April 25, 2012
Description : Pond Water Transfer Sampling

Site ID :

Sample ID : POND 12

Project # :

Collected By : CJB
Collection Date : 04/24/12 13:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
3,3-Dichlorobenzidine	U	0.034	0.20	mg/l		625	05/04/12	20
2,4-Dinitrotoluene	U	0.0044	0.20	mg/l		625	05/04/12	20
2,6-Dinitrotoluene	U	0.029	0.20	mg/l		625	05/04/12	20
1,2-Diphenylhydrazine	U	0.0033	0.20	mg/l		625	05/04/12	20
Fluoranthene	U	0.0068	0.020	mg/l		625	05/04/12	20
Fluorene	U	0.0035	0.020	mg/l		625	05/04/12	20
Hexachlorobenzene	U	0.0045	0.020	mg/l		625	05/04/12	20
Hexachloro-1,3-butadiene	U	0.053	0.20	mg/l		625	05/04/12	20
Hexachlorocyclopentadiene	U	0.036	0.20	mg/l		625	05/04/12	20
Hexachloroethane	U	0.063	0.20	mg/l		625	05/04/12	20
Indeno(1,2,3-cd)pyrene	U	0.0067	0.020	mg/l		625	05/04/12	20
Isophorone	U	0.0048	0.20	mg/l		625	05/04/12	20
Naphthalene	0.074	0.0083	0.020	mg/l		625	05/04/12	20
Nitrobenzene	U	0.0040	0.20	mg/l	J4	625	05/04/12	20
n-Nitrosodimethylamine	U	0.051	0.20	mg/l		625	05/04/12	20
n-Nitrosodiphenylamine	U	0.0027	0.20	mg/l		625	05/04/12	20
n-Nitrosodi-n-propylamine	U	0.0062	0.20	mg/l		625	05/04/12	20
Phenanthrene	U	0.0041	0.020	mg/l		625	05/04/12	20
Benzylbutyl phthalate	U	0.0079	0.020	mg/l		625	05/04/12	20
Bis(2-ethylhexyl)phthalate	U	0.0099	0.020	mg/l		625	05/04/12	20
Di-n-butyl phthalate	U	0.0055	0.020	mg/l		625	05/04/12	20
Diethyl phthalate	U	0.0071	0.020	mg/l		625	05/04/12	20
Dimethyl phthalate	U	0.0068	0.020	mg/l		625	05/04/12	20
Di-n-octyl phthalate	U	0.0055	0.020	mg/l		625	05/04/12	20
Pyrene	U	0.0059	0.020	mg/l		625	05/04/12	20
1,2,4-Trichlorobenzene	U	0.0070	0.20	mg/l		625	05/04/12	20
Acid Extractables								
4-Chloro-3-methylphenol	U	0.0046	0.20	mg/l		625	05/04/12	20
2-Chlorophenol	U	0.0038	0.20	mg/l		625	05/04/12	20
2,4-Dichlorophenol	U	0.019	0.20	mg/l		625	05/04/12	20
2,4-Dimethylphenol	0.13	0.027	0.20	mg/l	J	625	05/04/12	20
4,6-Dinitro-2-methylphenol	U	0.052	0.20	mg/l		625	05/04/12	20
2,4-Dinitrophenol	U	0.046	0.20	mg/l		625	05/04/12	20
2-Nitrophenol	U	0.0056	0.20	mg/l		625	05/04/12	20
4-Nitrophenol	U	0.055	0.20	mg/l		625	05/04/12	20
Pentachlorophenol	U	0.0081	0.20	mg/l		625	05/04/12	20
Phenol	0.15	0.023	0.20	mg/l	J	625	05/04/12	20
2,4,6-Trichlorophenol	U	0.0056	0.20	mg/l		625	05/04/12	20
Surrogate Recovery								
Nitrobenzene-d5	15.8			% Rec.	J7	625	05/04/12	20
2-Fluorobiphenyl	99.0			% Rec.	J7	625	05/04/12	20
p-Terphenyl-d14	49.4			% Rec.	J7	625	05/04/12	20
Phenol-d5	35.5			% Rec.	J7	625	05/04/12	20

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: 05/06/12 15:06 Revised: 05/07/12 09:53
L571681-01 (SV625BNA) - Dilution due to matrix
L571681-01 (PH) - 7.3@19.4c

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REPORT OF ANALYSIS

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

May 07, 2012

ESC Sample # : L571681-01

Date Received : April 25, 2012
Description : Pond Water Transfer Sampling

Site ID :

Sample ID : POND 12

Project # :

Collected By : CJB
Collection Date : 04/24/12 13:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Fluorophenol	29.6			% Rec.	J7	625	05/04/12	20
2,4,6-Tribromophenol	69.5			% Rec.	J7	625	05/04/12	20

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.

.
Reported: 05/06/12 15:06 Revised: 05/07/12 09:53
L571681-01 (SV625BNA) - Dilution due to matrix
L571681-01 (PH) - 7.3@19.4c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L571681-01	WG589787	SAMP	pH	R2147113	T8
	WG590233	SAMP	Cadmium,Dissolved	R2152235	J
	WG590233	SAMP	Chromium,Dissolved	R2152235	J
	WG589476	SAMP	Sulfate	R2143233	J
	WG589869	SAMP	Naphthalene	R2147793	J
	WG590026	SAMP	Nitrobenzene	R2149713	J4
	WG590026	SAMP	2,4-Dimethylphenol	R2149713	J
	WG590026	SAMP	Phenol	R2149713	J
	WG590026	SAMP	Nitrobenzene-d5	R2149713	J7
	WG590026	SAMP	2-Fluorobiphenyl	R2149713	J7
	WG590026	SAMP	p-Terphenyl-d14	R2149713	J7
	WG590026	SAMP	Phenol-d5	R2149713	J7
	WG590026	SAMP	2-Fluorophenol	R2149713	J7
	WG590026	SAMP	2,4,6-Tribromophenol	R2149713	J7

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J4	The associated batch QC was outside the established quality control range for accuracy.
J7	Surrogate recovery cannot be used for control limit evaluation due to 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 Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography 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.