

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: _____	API Number: _____
2. Name of Operator: _____	OGCC Facility ID # _____
3. Well/Facility Name: _____	Well/Facility Number: _____
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): _____	

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**



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Mt. Juliet, TN 37122
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Karolina Blaney
WPX Energy
1058 County Road 215
Parachute, CO 81635

Report Summary

Thursday June 14, 2012

Report Number: L578929

Samples Received: 06/07/12

Client Project:

Description: TR 41-35-597 #2

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:

T. Alan Harvill , 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

Karolina Blaney
 WPX Energy
 1058 County Road 215
 Parachute, CO 81635

June 14, 2012

Date Received : June 07, 2012
 Description : TR 41-35-597 #2
 Sample ID : TR41-35-597 #2
 Collected By :
 Collection Date : 06/06/12 13:00

ESC Sample # : L578929-01
 Site ID :
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Bromide	74.	1.0	mg/l	300.0	06/07/12	1
Chloride	10000	200	mg/l	300.0	06/08/12	200
Fluoride	BDL	0.50	mg/l	300.0	06/09/12	5
Nitrate	BDL	0.10	mg/l	300.0	06/07/12	1
Nitrite	BDL	0.10	mg/l	300.0	06/07/12	1
Sulfate	BDL	5.0	mg/l	300.0	06/07/12	1
Alkalinity	550	200	mg/l	2320B	06/12/12	10
Hardness, Total (mg/L as CaCO3)	820	300	mg/l	130.1	06/12/12	10
pH	6.8		su	4500H-B	06/11/12	1
Specific Conductance	28000		umhos/cm	120.1	06/11/12	1
Dissolved Solids	18000	10.	mg/l	2540C	06/14/12	1
Mercury,Dissolved	BDL	0.0040	mg/l	245.1	06/13/12	20
Arsenic,Dissolved	BDL	0.020	mg/l	200.7	06/12/12	1
Barium,Dissolved	45.	0.0050	mg/l	200.7	06/12/12	1
Cadmium,Dissolved	BDL	0.0050	mg/l	200.7	06/12/12	1
Chromium,Dissolved	BDL	0.010	mg/l	200.7	06/12/12	1
Lead,Dissolved	BDL	0.0050	mg/l	200.7	06/12/12	1
Selenium,Dissolved	BDL	0.020	mg/l	200.7	06/12/12	1
Silver,Dissolved	BDL	0.010	mg/l	200.7	06/12/12	1
Volatile Organics						
Benzene	3.9	0.50	mg/l	624	06/08/12	500
Bromodichloromethane	BDL	0.50	mg/l	624	06/08/12	500
Bromoform	BDL	0.50	mg/l	624	06/08/12	500
Bromomethane	BDL	2.5	mg/l	624	06/08/12	500
Carbon tetrachloride	BDL	0.50	mg/l	624	06/08/12	500
Chlorobenzene	BDL	0.50	mg/l	624	06/08/12	500
Chlorodibromomethane	BDL	0.50	mg/l	624	06/08/12	500
Chloroethane	BDL	2.5	mg/l	624	06/08/12	500
2-Chloroethyl vinyl ether	BDL	25.	mg/l	624	06/08/12	500
Chloroform	BDL	2.5	mg/l	624	06/08/12	500
Chloromethane	BDL	1.2	mg/l	624	06/08/12	500
1,2-Dichlorobenzene	BDL	0.50	mg/l	624	06/08/12	500
1,3-Dichlorobenzene	BDL	0.50	mg/l	624	06/08/12	500
1,4-Dichlorobenzene	BDL	0.50	mg/l	624	06/08/12	500
Dichlorodifluoromethane	BDL	2.5	mg/l	624	06/08/12	500
1,1-Dichloroethane	BDL	0.50	mg/l	624	06/08/12	500

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L578929-01 (ANIONS BY IC) - diluted due to high Sulfate
 L578929-01 (PH) - 6.8 @ 18.8c



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REPORT OF ANALYSIS

June 14, 2012

Karolina Blaney
 WPX Energy
 1058 County Road 215
 Parachute, CO 81635

Date Received : June 07, 2012
 Description : TR 41-35-597 #2
 Sample ID : TR41-35-597 #2
 Collected By :
 Collection Date : 06/06/12 13:00

ESC Sample # : L578929-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dichloroethane	BDL	0.50	mg/l	624	06/08/12	500
1,1-Dichloroethene	BDL	0.50	mg/l	624	06/08/12	500
trans-1,2-Dichloroethene	BDL	0.50	mg/l	624	06/08/12	500
1,2-Dichloropropane	BDL	0.50	mg/l	624	06/08/12	500
cis-1,3-Dichloropropene	BDL	0.50	mg/l	624	06/08/12	500
trans-1,3-Dichloropropene	BDL	0.50	mg/l	624	06/08/12	500
Ethylbenzene	BDL	0.50	mg/l	624	06/08/12	500
Methylene Chloride	BDL	2.5	mg/l	624	06/08/12	500
Methyl tert-butyl ether	BDL	2.5	mg/l	624	06/08/12	500
Naphthalene	BDL	2.5	mg/l	624	06/08/12	500
1,1,2,2-Tetrachloroethane	BDL	0.50	mg/l	624	06/08/12	500
Tetrachloroethene	BDL	0.50	mg/l	624	06/08/12	500
Toluene	9.5	2.5	mg/l	624	06/08/12	500
1,1,1-Trichloroethane	BDL	0.50	mg/l	624	06/08/12	500
1,1,2-Trichloroethane	BDL	0.50	mg/l	624	06/08/12	500
Trichloroethene	BDL	0.50	mg/l	624	06/08/12	500
Trichlorofluoromethane	BDL	2.5	mg/l	624	06/08/12	500
Vinyl chloride	BDL	0.50	mg/l	624	06/08/12	500
Surrogate Recovery						
Toluene-d8	100.		% Rec.	624	06/08/12	500
Dibromofluoromethane	99.1		% Rec.	624	06/08/12	500
a,a,a-Trifluorotoluene	98.5		% Rec.	624	06/08/12	500
4-Bromofluorobenzene	98.6		% Rec.	624	06/08/12	500
Base/Neutral Extractables						
Acenaphthene	BDL	0.050	mg/l	625	06/11/12	50
Acenaphthylene	BDL	0.050	mg/l	625	06/11/12	50
Anthracene	BDL	0.050	mg/l	625	06/11/12	50
Benzidine	BDL	0.50	mg/l	625	06/11/12	50
Benzo(a)anthracene	BDL	0.050	mg/l	625	06/11/12	50
Benzo(b)fluoranthene	BDL	0.050	mg/l	625	06/11/12	50
Benzo(k)fluoranthene	BDL	0.050	mg/l	625	06/11/12	50
Benzo(g,h,i)perylene	BDL	0.050	mg/l	625	06/11/12	50
Benzo(a)pyrene	BDL	0.050	mg/l	625	06/11/12	50
Bis(2-chlorethoxy)methane	BDL	0.50	mg/l	625	06/11/12	50
Bis(2-chloroethyl)ether	BDL	0.50	mg/l	625	06/11/12	50
Bis(2-chloroisopropyl)ether	BDL	0.50	mg/l	625	06/11/12	50
4-Bromophenyl-phenylether	BDL	0.50	mg/l	625	06/11/12	50
2-Chloronaphthalene	BDL	0.050	mg/l	625	06/11/12	50
4-Chlorophenyl-phenylether	BDL	0.50	mg/l	625	06/11/12	50
Chrysene	BDL	0.050	mg/l	625	06/11/12	50
Dibenz(a,h)anthracene	BDL	0.050	mg/l	625	06/11/12	50
3,3-Dichlorobenzidine	BDL	0.50	mg/l	625	06/11/12	50
2,4-Dinitrotoluene	BDL	0.50	mg/l	625	06/11/12	50

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L578929-01 (ANIONS BY IC) - diluted due to high Sulfate
 L578929-01 (PH) - 6.8 @ 18.8c



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REPORT OF ANALYSIS

June 14, 2012

Karolina Blaney
WPX Energy
1058 County Road 215
Parachute, CO 81635

ESC Sample # : L578929-01

Date Received : June 07, 2012
Description : TR 41-35-597 #2

Site ID :

Sample ID : TR41-35-597 #2

Project # :

Collected By :
Collection Date : 06/06/12 13:00

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Lists various chemical compounds and their detection results.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 06/14/12 11:44 Printed: 06/14/12 11:45
L578929-01 (ANIONS BY IC) - diluted due to high Sulfate
L578929-01 (PH) - 6.8 @ 18.8c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L578929-01	WG596741	SAMP	Nitrobenzene-d5	R2205353	J7
	WG596741	SAMP	2-Fluorobiphenyl	R2205353	J7
	WG596741	SAMP	p-Terphenyl-d14	R2205353	J7
	WG596741	SAMP	Phenol-d5	R2205353	J7
	WG596741	SAMP	2-Fluorophenol	R2205353	J7
	WG596741	SAMP	2,4,6-Tribromophenol	R2205353	J7
	WG596976	SAMP	pH	R2205614	T8
	WG596951	SAMP	Mercury,Dissolved	R2208753	OJ3
	WG597030	SAMP	Fluoride	R2206753	O

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
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.
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.

Summary of Remarks For Samples Printed
06/14/12 at 11:45:07

TSR Signing Reports: 364
R5 - Desired TAT

for 910-1 List log BTEXGRO, DRO and PAHSIM to separate dash number. \$100 min invoice removed
per Rodney Mann 9/19/11 TAH, no energy surcharge per Rodney Mann 10/26/11 TAH

Sample: L578929-01 Account: WILPCO Received: 06/07/12 09:00 Due Date: 06/14/12 00:00 RPT Date: 06/14/12 11:44
Refer to L578933



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WPX Energy
 Karolina Blaney
 1058 County Road 215
 Parachute, CO 81635

Quality Assurance Report
 Level II

L578929

12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
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June 14, 2012

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Bromide	< 1	mg/l			WG596660	06/07/12 07:40
Nitrate	< .1	mg/l			WG596660	06/07/12 07:40
Nitrite	< .1	mg/l			WG596660	06/07/12 07:40
Sulfate	< 5	mg/l			WG596660	06/07/12 07:40
Chloride	< 1	mg/l			WG596867	06/08/12 07:02
1,1,1-Trichloroethane	< .001	mg/l			WG596879	06/08/12 13:17
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG596879	06/08/12 13:17
1,1,2-Trichloroethane	< .001	mg/l			WG596879	06/08/12 13:17
1,1-Dichloroethane	< .001	mg/l			WG596879	06/08/12 13:17
1,1-Dichloroethene	< .001	mg/l			WG596879	06/08/12 13:17
1,2-Dichlorobenzene	< .001	mg/l			WG596879	06/08/12 13:17
1,2-Dichloroethane	< .001	mg/l			WG596879	06/08/12 13:17
1,2-Dichloropropane	< .001	mg/l			WG596879	06/08/12 13:17
1,3-Dichlorobenzene	< .001	mg/l			WG596879	06/08/12 13:17
1,4-Dichlorobenzene	< .001	mg/l			WG596879	06/08/12 13:17
2-Chloroethyl vinyl ether	< .05	mg/l			WG596879	06/08/12 13:17
Benzene	< .001	mg/l			WG596879	06/08/12 13:17
Bromodichloromethane	< .001	mg/l			WG596879	06/08/12 13:17
Bromoform	< .001	mg/l			WG596879	06/08/12 13:17
Bromomethane	< .005	mg/l			WG596879	06/08/12 13:17
Carbon tetrachloride	< .001	mg/l			WG596879	06/08/12 13:17
Chlorobenzene	< .001	mg/l			WG596879	06/08/12 13:17
Chlorodibromomethane	< .001	mg/l			WG596879	06/08/12 13:17
Chloroethane	< .005	mg/l			WG596879	06/08/12 13:17
Chloroform	< .005	mg/l			WG596879	06/08/12 13:17
Chloromethane	< .0025	mg/l			WG596879	06/08/12 13:17
cis-1,3-Dichloropropene	< .001	mg/l			WG596879	06/08/12 13:17
Dichlorodifluoromethane	< .005	mg/l			WG596879	06/08/12 13:17
Ethylbenzene	< .001	mg/l			WG596879	06/08/12 13:17
Methyl tert-butyl ether	< .001	mg/l			WG596879	06/08/12 13:17
Methylene Chloride	< .005	mg/l			WG596879	06/08/12 13:17
Naphthalene	< .005	mg/l			WG596879	06/08/12 13:17
Tetrachloroethene	< .001	mg/l			WG596879	06/08/12 13:17
Toluene	< .005	mg/l			WG596879	06/08/12 13:17
trans-1,2-Dichloroethene	< .001	mg/l			WG596879	06/08/12 13:17
trans-1,3-Dichloropropene	< .001	mg/l			WG596879	06/08/12 13:17
Trichloroethene	< .001	mg/l			WG596879	06/08/12 13:17
Trichlorofluoromethane	< .005	mg/l			WG596879	06/08/12 13:17
Vinyl chloride	< .001	mg/l			WG596879	06/08/12 13:17
4-Bromofluorobenzene		% Rec.	103.4	82-120	WG596879	06/08/12 13:17
Dibromofluoromethane		% Rec.	99.32	82-126	WG596879	06/08/12 13:17
Toluene-d8		% Rec.	102.6	92-112	WG596879	06/08/12 13:17
a,a,a-Trifluorotoluene		% Rec.	101.1	90-116	WG596879	06/08/12 13:17
1,2,4-Trichlorobenzene	< .01	mg/l			WG596741	06/09/12 14:09
2,4,6-Trichlorophenol	< .01	mg/l			WG596741	06/09/12 14:09
2,4-Dichlorophenol	< .01	mg/l			WG596741	06/09/12 14:09
2,4-Dimethylphenol	< .01	mg/l			WG596741	06/09/12 14:09
2,4-Dinitrophenol	< .01	mg/l			WG596741	06/09/12 14:09
2,4-Dinitrotoluene	< .01	mg/l			WG596741	06/09/12 14:09
2,6-Dinitrotoluene	< .01	mg/l			WG596741	06/09/12 14:09
2-Chloronaphthalene	< .001	mg/l			WG596741	06/09/12 14:09
2-Chlorophenol	< .01	mg/l			WG596741	06/09/12 14:09
2-Nitrophenol	< .01	mg/l			WG596741	06/09/12 14:09

* 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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June 14, 2012

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
3,3-Dichlorobenzidine	< .01	mg/l			WG596741	06/09/12 14:09
4,6-Dinitro-2-methylphenol	< .01	mg/l			WG596741	06/09/12 14:09
4-Bromophenyl-phenylether	< .01	mg/l			WG596741	06/09/12 14:09
4-Chloro-3-methylphenol	< .01	mg/l			WG596741	06/09/12 14:09
4-Chlorophenyl-phenylether	< .01	mg/l			WG596741	06/09/12 14:09
4-Nitrophenol	< .01	mg/l			WG596741	06/09/12 14:09
Acenaphthene	< .001	mg/l			WG596741	06/09/12 14:09
Acenaphthylene	< .001	mg/l			WG596741	06/09/12 14:09
Anthracene	< .001	mg/l			WG596741	06/09/12 14:09
1,2-Diphenylhydrazine	< .01	mg/l			WG596741	06/09/12 14:09
Benzidine	< .01	mg/l			WG596741	06/09/12 14:09
Benzo(a)anthracene	< .001	mg/l			WG596741	06/09/12 14:09
Benzo(a)pyrene	< .001	mg/l			WG596741	06/09/12 14:09
Benzo(b)fluoranthene	< .001	mg/l			WG596741	06/09/12 14:09
Benzo(g,h,i)perylene	< .001	mg/l			WG596741	06/09/12 14:09
Benzo(k)fluoranthene	< .001	mg/l			WG596741	06/09/12 14:09
Benzylbutyl phthalate	< .001	mg/l			WG596741	06/09/12 14:09
Bis(2-chlorethoxy)methane	< .01	mg/l			WG596741	06/09/12 14:09
Bis(2-chloroethyl)ether	< .01	mg/l			WG596741	06/09/12 14:09
Bis(2-chloroisopropyl)ether	< .01	mg/l			WG596741	06/09/12 14:09
Bis(2-ethylhexyl)phthalate	< .001	mg/l			WG596741	06/09/12 14:09
Chrysene	< .001	mg/l			WG596741	06/09/12 14:09
Di-n-butyl phthalate	< .001	mg/l			WG596741	06/09/12 14:09
Di-n-octyl phthalate	< .001	mg/l			WG596741	06/09/12 14:09
Dibenz(a,h)anthracene	< .001	mg/l			WG596741	06/09/12 14:09
Diethyl phthalate	< .001	mg/l			WG596741	06/09/12 14:09
Dimethyl phthalate	< .001	mg/l			WG596741	06/09/12 14:09
Fluoranthene	< .001	mg/l			WG596741	06/09/12 14:09
Fluorene	< .001	mg/l			WG596741	06/09/12 14:09
Hexachloro-1,3-butadiene	< .01	mg/l			WG596741	06/09/12 14:09
Hexachlorobenzene	< .001	mg/l			WG596741	06/09/12 14:09
Hexachlorocyclopentadiene	< .01	mg/l			WG596741	06/09/12 14:09
Hexachloroethane	< .01	mg/l			WG596741	06/09/12 14:09
Indeno(1,2,3-cd)pyrene	< .001	mg/l			WG596741	06/09/12 14:09
Isophorone	< .01	mg/l			WG596741	06/09/12 14:09
n-Nitrosodi-n-propylamine	< .01	mg/l			WG596741	06/09/12 14:09
n-Nitrosodimethylamine	< .01	mg/l			WG596741	06/09/12 14:09
n-Nitrosodiphenylamine	< .01	mg/l			WG596741	06/09/12 14:09
Naphthalene	< .001	mg/l			WG596741	06/09/12 14:09
Nitrobenzene	< .01	mg/l			WG596741	06/09/12 14:09
Pentachlorophenol	< .001	mg/l			WG596741	06/09/12 14:09
Phenanthrene	< .001	mg/l			WG596741	06/09/12 14:09
Phenol	< .01	mg/l			WG596741	06/09/12 14:09
Pyrene	< .001	mg/l			WG596741	06/09/12 14:09
2,4,6-Tribromophenol		% Rec.	82.44	16-147	WG596741	06/09/12 14:09
2-Fluorobiphenyl		% Rec.	94.25	29-127	WG596741	06/09/12 14:09
2-Fluorophenol		% Rec.	38.79	10-75	WG596741	06/09/12 14:09
Nitrobenzene-d5		% Rec.	79.60	17-119	WG596741	06/09/12 14:09
Phenol-d5		% Rec.	24.99	10-63	WG596741	06/09/12 14:09
p-Terphenyl-d14		% Rec.	78.04	40-174	WG596741	06/09/12 14:09
pH	6.83	su			WG596976	06/11/12 10:45
Specific Conductance	1.91	umhos/cm			WG596918	06/11/12 17:02
Hardness, Total (mg/L as CaCO3)	< 30	mg/l			WG597312	06/12/12 09:51

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 Karolina Blaney
 1058 County Road 215
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Quality Assurance Report
 Level II

L578929

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Tax I.D. 62-0814289

Est. 1970

June 14, 2012

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Fluoride	< .1	mg/l			WG597030	06/09/12 08:25
Alkalinity	< 20	mg/l			WG597223	06/12/12 14:54
Arsenic, Dissolved	< .02	mg/l			WG597194	06/12/12 15:42
Barium, Dissolved	< .005	mg/l			WG597194	06/12/12 15:42
Cadmium, Dissolved	< .005	mg/l			WG597194	06/12/12 15:42
Chromium, Dissolved	< .01	mg/l			WG597194	06/12/12 15:42
Lead, Dissolved	< .005	mg/l			WG597194	06/12/12 15:42
Selenium, Dissolved	< .02	mg/l			WG597194	06/12/12 15:42
Silver, Dissolved	< .01	mg/l			WG597194	06/12/12 15:42
Mercury, Dissolved	< .0002	mg/l			WG596951	06/13/12 08:41
Dissolved Solids	< 10	mg/l			WG597190	06/14/12 09:41

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Nitrate	mg/l	28.0	28.0	0.712	20	L578936-08	WG596660
Nitrate	mg/l	18.0	18.0	1.10	20	L578936-07	WG596660
Chloride	mg/l	38.0	38.0	0.528	20	L578638-01	WG596867
Chloride	mg/l	62.0	62.0	0	20	L578703-01	WG596867
pH	su	6.80	6.80	0.147	1	L578929-01	WG596976
pH	su	8.10	8.00	0.995	1	L579340-01	WG596976
Specific Conductance	umhos/cm	520.	530.	0.948	20	L578915-01	WG596918
Specific Conductance	umhos/cm	560.	560.	0.897	20	L579246-04	WG596918
Hardness, Total (mg/L as CaCO3)	mg/l	680.	680.	0.738	20	L579311-05	WG597312
Hardness, Total (mg/L as CaCO3)	mg/l	110.	110.	0	20	L578910-01	WG597312
Fluoride	mg/l	0	0	0	20	L579309-16	WG597030
Alkalinity	mg/l	120.	110.	6.17	20	L578866-01	WG597223
Alkalinity	mg/l	300.	330.	9.52	20	L578920-01	WG597223
Arsenic, Dissolved	mg/l	0	0	0	20	L578946-01	WG597194
Barium, Dissolved	mg/l	78.0	77.0	0.905	20	L578946-01	WG597194
Cadmium, Dissolved	mg/l	0	0	0	20	L578946-01	WG597194
Chromium, Dissolved	mg/l	0	0	0	20	L578946-01	WG597194
Lead, Dissolved	mg/l	0	0	0	20	L578946-01	WG597194
Silver, Dissolved	mg/l	0	0	0	20	L578946-01	WG597194
Selenium, Dissolved	mg/l	0	0	0	20	L578946-01	WG597194

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Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Mercury, Dissolved	mg/l	0	0	0	20	L578929-01	WG596951
Dissolved Solids	mg/l	400.	396.	0	5	L578957-01	WG597190

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Bromide	mg/l	40	39.2	98.0	90-110	WG596660
Nitrate	mg/l	8	8.02	100.	90-110	WG596660
Nitrite	mg/l	8	7.81	97.6	90-110	WG596660
Sulfate	mg/l	40	38.4	96.0	90-110	WG596660
Chloride	mg/l	40	39.1	97.8	90-110	WG596867
1,1,1-Trichloroethane	mg/l	.025	0.0249	99.6	71-126	WG596879
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0261	105.	78-130	WG596879
1,1,2-Trichloroethane	mg/l	.025	0.0247	99.0	81-121	WG596879
1,1-Dichloroethane	mg/l	.025	0.0248	99.1	73-123	WG596879
1,1-Dichloroethene	mg/l	.025	0.0231	92.6	54-134	WG596879
1,2-Dichlorobenzene	mg/l	.025	0.0242	96.8	82-121	WG596879
1,2-Dichloroethane	mg/l	.025	0.0272	109.	69-128	WG596879
1,2-Dichloropropane	mg/l	.025	0.0250	100.	77-121	WG596879
1,3-Dichlorobenzene	mg/l	.025	0.0240	96.1	77-127	WG596879
1,4-Dichlorobenzene	mg/l	.025	0.0234	93.8	79-117	WG596879
2-Chloroethyl vinyl ether	mg/l	.125	0.128	103.	26-172	WG596879
Benzene	mg/l	.025	0.0248	99.1	72-119	WG596879
Bromodichloromethane	mg/l	.025	0.0258	103.	75-127	WG596879
Bromoform	mg/l	.025	0.0264	106.	61-136	WG596879
Bromomethane	mg/l	.025	0.0329	132.	42-172	WG596879
Carbon tetrachloride	mg/l	.025	0.0245	98.0	63-129	WG596879
Chlorobenzene	mg/l	.025	0.0242	97.0	78-123	WG596879
Chlorodibromomethane	mg/l	.025	0.0260	104.	73-128	WG596879
Chloroethane	mg/l	.025	0.0269	108.	52-164	WG596879
Chloroform	mg/l	.025	0.0258	103.	76-122	WG596879
Chloromethane	mg/l	.025	0.0215	85.8	50-141	WG596879
cis-1,3-Dichloropropene	mg/l	.025	0.0260	104.	74-124	WG596879
Dichlorodifluoromethane	mg/l	.025	0.0299	120.	33-173	WG596879
Ethylbenzene	mg/l	.025	0.0248	99.2	77-124	WG596879
Methyl tert-butyl ether	mg/l	.025	0.0255	102.	67-127	WG596879
Methylene Chloride	mg/l	.025	0.0220	88.1	67-122	WG596879
Naphthalene	mg/l	.025	0.0287	115.	70-134	WG596879
Tetrachloroethane	mg/l	.025	0.0241	96.2	69-131	WG596879
Toluene	mg/l	.025	0.0246	98.2	75-114	WG596879
trans-1,2-Dichloroethene	mg/l	.025	0.0255	102.	63-127	WG596879
trans-1,3-Dichloropropene	mg/l	.025	0.0258	103.	69-124	WG596879
Trichloroethene	mg/l	.025	0.0254	102.	69-131	WG596879
Trichlorofluoromethane	mg/l	.025	0.0272	109.	53-161	WG596879
Vinyl chloride	mg/l	.025	0.0268	107.	55-142	WG596879
4-Bromofluorobenzene				98.33	82-120	WG596879
Dibromofluoromethane				101.9	82-126	WG596879
Toluene-d8				100.6	92-112	WG596879
a,a,a-Trifluorotoluene				100.8	90-116	WG596879
1,2,4-Trichlorobenzene	mg/l	.01	0.00758	75.8	34-97	WG596741
2,4,6-Trichlorophenol	mg/l	.01	0.00905	90.5	38-113	WG596741

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Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
2,4-Dichlorophenol	mg/l	.01	0.00857	85.7	46-105	WG596741
2,4-Dimethylphenol	mg/l	.01	0.00831	83.1	47-108	WG596741
2,4-Dinitrophenol	mg/l	.01	0.00704	70.4	10-121	WG596741
2,4-Dinitrotoluene	mg/l	.01	0.00937	93.7	59-117	WG596741
2,6-Dinitrotoluene	mg/l	.01	0.00974	97.4	57-110	WG596741
2-Chloronaphthalene	mg/l	.01	0.00852	85.2	47-106	WG596741
2-Chlorophenol	mg/l	.01	0.00690	69.0	37-90	WG596741
2-Nitrophenol	mg/l	.01	0.00899	89.9	40-112	WG596741
3,3-Dichlorobenzidine	mg/l	.01	0.00876	87.6	58-116	WG596741
4,6-Dinitro-2-methylphenol	mg/l	.01	0.00868	86.8	21-119	WG596741
4-Bromophenyl-phenylether	mg/l	.01	0.00885	88.5	63-120	WG596741
4-Chloro-3-methylphenol	mg/l	.01	0.00805	80.5	50-105	WG596741
4-Chlorophenyl-phenylether	mg/l	.01	0.00893	89.3	58-115	WG596741
4-Nitrophenol	mg/l	.01	0.00221	22.1	10-53	WG596741
Acenaphthene	mg/l	.01	0.00919	91.9	52-107	WG596741
Acenaphthylene	mg/l	.01	0.00953	95.3	55-119	WG596741
Anthracene	mg/l	.01	0.00948	94.8	65-114	WG596741
1,2-Diphenylhydrazine	mg/l	.01	0.00920	92.0	52-113	WG596741
Benzidine	mg/l	.01	0.00317	31.8	10-55	WG596741
Benzo(a)anthracene	mg/l	.01	0.00955	95.5	68-113	WG596741
Benzo(a)pyrene	mg/l	.01	0.00961	96.1	68-115	WG596741
Benzo(b)fluoranthene	mg/l	.01	0.00972	97.2	67-114	WG596741
Benzo(g,h,i)perylene	mg/l	.01	0.00795	79.5	52-132	WG596741
Benzo(k)fluoranthene	mg/l	.01	0.00940	94.0	62-116	WG596741
Benzylbutyl phthalate	mg/l	.01	0.00698	69.8	12-166	WG596741
Bis(2-chloroethoxy)methane	mg/l	.01	0.00911	91.1	56-116	WG596741
Bis(2-chloroethyl)ether	mg/l	.01	0.00837	83.7	39-109	WG596741
Bis(2-chloroisopropyl)ether	mg/l	.01	0.00815	81.5	43-108	WG596741
Bis(2-ethylhexyl)phthalate	mg/l	.01	0.00901	90.1	61-147	WG596741
Chrysene	mg/l	.01	0.00959	95.9	65-114	WG596741
Di-n-butyl phthalate	mg/l	.01	0.00906	90.6	56-133	WG596741
Di-n-octyl phthalate	mg/l	.01	0.00943	94.3	59-143	WG596741
Dibenz(a,h)anthracene	mg/l	.01	0.00830	83.0	54-130	WG596741
Diethyl phthalate	mg/l	.01	0.00843	84.3	33-136	WG596741
Dimethyl phthalate	mg/l	.01	0.00609	60.9	10-152	WG596741
Fluoranthene	mg/l	.01	0.00955	95.5	66-120	WG596741
Fluorene	mg/l	.01	0.00914	91.4	58-110	WG596741
Hexachloro-1,3-butadiene	mg/l	.01	0.00788	78.8	34-115	WG596741
Hexachlorobenzene	mg/l	.01	0.00809	80.9	55-117	WG596741
Hexachlorocyclopentadiene	mg/l	.01	0.00671	67.1	20-121	WG596741
Hexachloroethane	mg/l	.01	0.00763	76.3	24-93	WG596741
Indeno(1,2,3-cd)pyrene	mg/l	.01	0.00819	81.9	56-129	WG596741
Isophorone	mg/l	.01	0.00739	73.9	55-108	WG596741
n-Nitrosodi-n-propylamine	mg/l	.01	0.00944	94.4	50-115	WG596741
n-Nitrosodimethylamine	mg/l	.01	0.00433	43.3	12-68	WG596741
n-Nitrosodiphenylamine	mg/l	.01	0.00911	91.1	55-98	WG596741
Naphthalene	mg/l	.01	0.00833	83.3	42-103	WG596741
Nitrobenzene	mg/l	.01	0.00855	85.5	39-102	WG596741
Pentachlorophenol	mg/l	.01	0.00710	71.0	10-101	WG596741
Phenanthrene	mg/l	.01	0.00919	92.0	61-110	WG596741
Phenol	mg/l	.01	0.00246	24.6	10-53	WG596741
Pyrene	mg/l	.01	0.00811	81.1	65-116	WG596741
2,4,6-Tribromophenol				89.31	16-147	WG596741
2-Fluorobiphenyl				90.47	29-127	WG596741
2-Fluorophenol				37.99	10-75	WG596741
Nitrobenzene-d5				87.71	17-119	WG596741
Phenol-d5				24.74	10-63	WG596741
p-Terphenyl-d14				74.89	40-174	WG596741

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Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
pH	su	5.7	5.72	100.	98-101	WG596976
Specific Conductance	umhos/cm	495	494.	99.8	85-115	WG596918
Hardness, Total (mg/L as CaCO3)	mg/l	200	209.	105.	85-115	WG597312
Fluoride	mg/l	8	7.85	98.1	90-110	WG597030
Alkalinity	mg/l	100	90.4	90.4	85-115	WG597223
Arsenic, Dissolved	mg/l	1	0.994	99.4	85-115	WG597194
Barium, Dissolved	mg/l	1	1.03	103.	85-115	WG597194
Cadmium, Dissolved	mg/l	1	1.03	103.	85-115	WG597194
Chromium, Dissolved	mg/l	1	1.04	104.	85-115	WG597194
Lead, Dissolved	mg/l	1	1.05	105.	85-115	WG597194
Selenium, Dissolved	mg/l	1	0.971	97.1	85-115	WG597194
Silver, Dissolved	mg/l	1	0.998	99.8	85-115	WG597194
Mercury, Dissolved	mg/l	.003	0.00301	100.	85-115	WG596951
Dissolved Solids	mg/l	8800	8720	99.1	85-115	WG597190

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Bromide	mg/l	39.5	39.2	99.0	90-110	0.762	20	WG596660
Nitrate	mg/l	8.06	8.02	101.	90-110	0.498	20	WG596660
Nitrite	mg/l	7.87	7.81	98.0	90-110	0.765	20	WG596660
Sulfate	mg/l	38.6	38.4	96.0	90-110	0.519	20	WG596660
Chloride	mg/l	39.1	39.1	98.0	90-110	0	20	WG596867
1,1,1-Trichloroethane	mg/l	0.0230	0.0249	92.0	71-126	7.76	20	WG596879
1,1,2,2-Tetrachloroethane	mg/l	0.0234	0.0261	94.0	78-130	11.1	20	WG596879
1,1,2-Trichloroethane	mg/l	0.0221	0.0247	88.0	81-121	11.2	20	WG596879
1,1-Dichloroethane	mg/l	0.0228	0.0248	91.0	73-123	8.25	20	WG596879
1,1-Dichloroethene	mg/l	0.0214	0.0231	86.0	54-134	7.83	20	WG596879
1,2-Dichlorobenzene	mg/l	0.0226	0.0242	90.0	82-121	7.05	20	WG596879
1,2-Dichloroethane	mg/l	0.0249	0.0272	100.	69-128	8.67	20	WG596879
1,2-Dichloropropane	mg/l	0.0231	0.0250	92.0	77-121	8.25	20	WG596879
1,3-Dichlorobenzene	mg/l	0.0216	0.0240	86.0	77-127	10.8	20	WG596879
1,4-Dichlorobenzene	mg/l	0.0221	0.0234	88.0	79-117	5.96	20	WG596879
2-Chloroethyl vinyl ether	mg/l	0.122	0.128	97.0	26-172	5.39	22	WG596879
Benzene	mg/l	0.0224	0.0248	90.0	72-119	10.2	20	WG596879
Bromodichloromethane	mg/l	0.0243	0.0258	97.0	75-127	5.97	20	WG596879
Bromoform	mg/l	0.0229	0.0264	92.0	61-136	14.1	20	WG596879
Bromomethane	mg/l	0.0278	0.0329	111.	42-172	16.8	20	WG596879
Carbon tetrachloride	mg/l	0.0227	0.0245	91.0	63-129	7.53	20	WG596879
Chlorobenzene	mg/l	0.0215	0.0242	86.0	78-123	11.8	20	WG596879

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Analyte	Units	Laboratory Control		Sample Duplicate	Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Chlorodibromomethane	mg/l	0.0230	0.0260	92.0	73-128	12.4	20	WG596879
Chloroethane	mg/l	0.0236	0.0269	94.0	52-164	13.1	20	WG596879
Chloroform	mg/l	0.0234	0.0258	94.0	76-122	9.63	20	WG596879
Chloromethane	mg/l	0.0191	0.0215	76.0	50-141	11.9	20	WG596879
cis-1,3-Dichloropropene	mg/l	0.0237	0.0260	95.0	74-124	9.21	20	WG596879
Dichlorodifluoromethane	mg/l	0.0265	0.0299	106.	33-173	12.2	20	WG596879
Ethylbenzene	mg/l	0.0216	0.0248	86.0	77-124	14.0	20	WG596879
Methyl tert-butyl ether	mg/l	0.0235	0.0255	94.0	67-127	7.86	20	WG596879
Methylene Chloride	mg/l	0.0190	0.0220	76.0	67-122	14.9	20	WG596879
Naphthalene	mg/l	0.0277	0.0287	111.	70-134	3.42	20	WG596879
Tetrachloroethene	mg/l	0.0213	0.0241	85.0	69-131	12.2	20	WG596879
Toluene	mg/l	0.0228	0.0246	91.0	75-114	7.59	20	WG596879
trans-1,2-Dichloroethene	mg/l	0.0226	0.0255	90.0	63-127	11.7	20	WG596879
trans-1,3-Dichloropropene	mg/l	0.0243	0.0258	97.0	69-124	5.88	20	WG596879
Trichloroethene	mg/l	0.0229	0.0254	91.0	69-131	10.6	20	WG596879
Trichlorofluoromethane	mg/l	0.0243	0.0272	97.0	53-161	11.1	20	WG596879
Vinyl chloride	mg/l	0.0233	0.0268	93.0	55-142	14.0	20	WG596879
4-Bromofluorobenzene				94.50	82-120			WG596879
Dibromofluoromethane				101.3	82-126			WG596879
Toluene-d8				101.4	92-112			WG596879
a,a,a-Trifluorotoluene				99.33	90-116			WG596879
1,2,4-Trichlorobenzene	mg/l	0.00798	0.00758	80.0	34-97	5.14	21	WG596741
2,4,6-Trichlorophenol	mg/l	0.00883	0.00905	88.0	38-113	2.41	29	WG596741
2,4-Dichlorophenol	mg/l	0.00855	0.00857	85.0	46-105	0.212	20	WG596741
2,4-Dimethylphenol	mg/l	0.00818	0.00831	82.0	47-108	1.52	20	WG596741
2,4-Dinitrophenol	mg/l	0.00639	0.00704	64.0	10-121	9.62	40	WG596741
2,4-Dinitrotoluene	mg/l	0.00948	0.00937	95.0	59-117	1.14	20	WG596741
2,6-Dinitrotoluene	mg/l	0.00943	0.00974	94.0	57-110	3.27	20	WG596741
2-Chloronaphthalene	mg/l	0.00895	0.00852	90.0	47-106	5.02	20	WG596741
2-Chlorophenol	mg/l	0.00708	0.00690	71.0	37-90	2.51	21	WG596741
2-Nitrophenol	mg/l	0.00901	0.00899	90.0	40-112	0.281	22	WG596741
3,3-Dichlorobenzidine	mg/l	0.00873	0.00876	87.0	58-116	0.369	20	WG596741
4,6-Dinitro-2-methylphenol	mg/l	0.00843	0.00868	84.0	21-119	2.96	40	WG596741
4-Bromophenyl-phenylether	mg/l	0.00899	0.00885	90.0	63-120	1.56	20	WG596741
4-Chloro-3-methylphenol	mg/l	0.00785	0.00805	78.0	50-105	2.46	20	WG596741
4-Chlorophenyl-phenylether	mg/l	0.00873	0.00893	87.0	58-115	2.25	20	WG596741
4-Nitrophenol	mg/l	0.00202	0.00221	20.0	10-53	8.85	40	WG596741
Acenaphthene	mg/l	0.00928	0.00919	93.0	52-107	0.954	20	WG596741
Acenaphthylene	mg/l	0.00940	0.00953	94.0	55-119	1.36	20	WG596741
Anthracene	mg/l	0.00954	0.00948	95.0	65-114	0.654	20	WG596741
1,2-Diphenylhydrazine	mg/l	0.00910	0.00920	91.0	52-113	1.11	20	WG596741
Benzidine	mg/l	0.00315	0.00317	32.0	10-55	0.747	40	WG596741
Benzo(a)anthracene	mg/l	0.00941	0.00955	94.0	68-113	1.52	20	WG596741
Benzo(a)pyrene	mg/l	0.00960	0.00961	96.0	68-115	0.137	20	WG596741
Benzo(b)fluoranthene	mg/l	0.00971	0.00972	97.0	67-114	0.133	20	WG596741
Benzo(g,h,i)perylene	mg/l	0.00794	0.00795	79.0	52-132	0.120	20	WG596741
Benzo(k)fluoranthene	mg/l	0.00933	0.00940	93.0	62-116	0.736	20	WG596741
Benzylbutyl phthalate	mg/l	0.00653	0.00698	65.0	12-166	6.62	20	WG596741
Bis(2-chloroethoxy)methane	mg/l	0.00891	0.00911	89.0	56-116	2.21	20	WG596741
Bis(2-chloroethyl)ether	mg/l	0.00895	0.00837	89.0	39-109	6.66	23	WG596741
Bis(2-chloroisopropyl)ether	mg/l	0.00866	0.00815	87.0	43-108	6.11	20	WG596741
Bis(2-ethylhexyl)phthalate	mg/l	0.00913	0.00901	91.0	61-147	1.37	20	WG596741
Chrysene	mg/l	0.00958	0.00959	96.0	65-114	0.157	20	WG596741
Di-n-butyl phthalate	mg/l	0.00943	0.00906	94.0	56-133	3.98	20	WG596741
Di-n-octyl phthalate	mg/l	0.00942	0.00943	94.0	59-143	0.190	20	WG596741
Dibenz(a,h)anthracene	mg/l	0.00843	0.00830	84.0	54-130	1.60	20	WG596741
Diethyl phthalate	mg/l	0.00823	0.00843	82.0	33-136	2.36	20	WG596741

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Quality Assurance Report
 Level II

L578929

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 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

June 14, 2012

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Dimethyl phthalate	mg/l	0.00562	0.00609	56.0	10-152	8.10	22	WG596741
Fluoranthene	mg/l	0.00987	0.00955	99.0	66-120	3.28	20	WG596741
Fluorene	mg/l	0.00920	0.00914	92.0	58-110	0.704	20	WG596741
Hexachloro-1,3-butadiene	mg/l	0.00820	0.00788	82.0	34-115	3.93	22	WG596741
Hexachlorobenzene	mg/l	0.00816	0.00809	82.0	55-117	0.951	20	WG596741
Hexachlorocyclopentadiene	mg/l	0.00671	0.00671	67.0	20-121	0.0959	27	WG596741
Hexachloroethane	mg/l	0.00792	0.00763	79.0	24-93	3.69	25	WG596741
Indeno(1,2,3-cd)pyrene	mg/l	0.00838	0.00819	84.0	56-129	2.40	20	WG596741
Isophorone	mg/l	0.00736	0.00739	74.0	55-108	0.330	20	WG596741
n-Nitrosodi-n-propylamine	mg/l	0.00927	0.00944	93.0	50-115	1.84	20	WG596741
n-Nitrosodimethylamine	mg/l	0.00437	0.00433	44.0	12-68	1.03	31	WG596741
n-Nitrosodiphenylamine	mg/l	0.00908	0.00911	91.0	55-98	0.337	20	WG596741
Naphthalene	mg/l	0.00840	0.00833	84.0	42-103	0.903	20	WG596741
Nitrobenzene	mg/l	0.00871	0.00855	87.0	39-102	1.91	20	WG596741
Pentachlorophenol	mg/l	0.00678	0.00710	68.0	10-101	4.57	40	WG596741
Phenanthrene	mg/l	0.00952	0.00919	95.0	61-110	3.43	20	WG596741
Phenol	mg/l	0.00246	0.00246	25.0	10-53	0.0293	20	WG596741
Pyrene	mg/l	0.00850	0.00811	85.0	65-116	4.72	20	WG596741
2,4,6-Tribromophenol				91.49	16-147			WG596741
2-Fluorobiphenyl				92.65	29-127			WG596741
2-Fluorophenol				38.85	10-75			WG596741
Nitrobenzene-d5				89.38	17-119			WG596741
Phenol-d5				23.96	10-63			WG596741
p-Terphenyl-d14				76.95	40-174			WG596741
pH	su	5.70	5.72	100.	98-101	0.350	20	WG596976
Specific Conductance	umhos/	493.	494.	100.	85-115	0.203	20	WG596918
Hardness, Total (mg/L as CaCO3)	mg/l	209.	209.	104.	85-115	0	20	WG597312
Fluoride	mg/l	7.87	7.85	98.0	90-110	0.254	20	WG597030
Alkalinity	mg/l	87.4	90.4	87.0	85-115	3.37	20	WG597223
Dissolved Solids	mg/l	8700	8720	99.0	85-115	0.230	20	WG597190

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Nitrate	mg/l	6.52	1.40	5	102.	80-120	L578911-01	WG596660
Chloride	mg/l	50.5	0	50	101.	80-120	L578805-01	WG596867
1,1,1-Trichloroethane	mg/l	0.0229	0	.025	91.6	58-137	L578523-02	WG596879
1,1,2,2-Tetrachloroethane	mg/l	0.0264	0.000793	.025	102.	64-149	L578523-02	WG596879
1,1,2-Trichloroethane	mg/l	0.0240	0.00294	.025	84.4	73-128	L578523-02	WG596879
1,1-Dichloroethane	mg/l	0.0230	0	.025	92.1	58-133	L578523-02	WG596879
1,1-Dichloroethene	mg/l	0.0195	0	.025	78.2	32-152	L578523-02	WG596879
1,2-Dichlorobenzene	mg/l	0.0232	0	.025	92.9	75-125	L578523-02	WG596879
1,2-Dichloroethane	mg/l	0.0257	0.000392	.025	101.	59-135	L578523-02	WG596879

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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
1,2-Dichloropropane	mg/l	0.0235	0.00151	.025	87.8	68-126	L578523-02	WG596879
1,3-Dichlorobenzene	mg/l	0.0219	0	.025	87.6	69-131	L578523-02	WG596879
1,4-Dichlorobenzene	mg/l	0.0223	0	.025	89.2	70-123	L578523-02	WG596879
2-Chloroethyl vinyl ether	mg/l	0.127	0	.125	101.	10-161	L578523-02	WG596879
Benzene	mg/l	0.0249	0.00250	.025	89.4	51-134	L578523-02	WG596879
Bromodichloromethane	mg/l	0.0253	0.00246	.025	91.5	67-132	L578523-02	WG596879
Bromoform	mg/l	0.0239	0	.025	95.5	59-137	L578523-02	WG596879
Bromomethane	mg/l	0.0250	0	.025	99.9	23-177	L578523-02	WG596879
Carbon tetrachloride	mg/l	0.0225	0	.025	90.2	49-140	L578523-02	WG596879
Chlorobenzene	mg/l	0.0220	0.00105	.025	84.0	69-126	L578523-02	WG596879
Chlorodibromomethane	mg/l	0.0239	0.000828	.025	92.1	68-130	L578523-02	WG596879
Chloroethane	mg/l	0.0221	0	.025	88.2	32-177	L578523-02	WG596879
Chloroform	mg/l	0.0247	0.00163	.025	92.1	64-130	L578523-02	WG596879
Chloromethane	mg/l	0.0178	0	.025	71.2	27-155	L578523-02	WG596879
cis-1,3-Dichloropropene	mg/l	0.0238	0	.025	95.3	63-127	L578523-02	WG596879
Dichlorodifluoromethane	mg/l	0.0257	0	.025	103.	16-188	L578523-02	WG596879
Ethylbenzene	mg/l	0.0664	0.0490	.025	69.8	64-135	L578523-02	WG596879
Methyl tert-butyl ether	mg/l	0.0306	0.00610	.025	98.0	55-136	L578523-02	WG596879
Methylene Chloride	mg/l	0.0196	0	.025	78.4	52-130	L578523-02	WG596879
Naphthalene	mg/l	0.0495	0.0190	.025	122.	65-140	L578523-02	WG596879
Tetrachloroethene	mg/l	0.0207	0	.025	82.6	56-139	L578523-02	WG596879
Toluene	mg/l	0.0227	0	.025	90.6	61-126	L578523-02	WG596879
trans-1,2-Dichloroethene	mg/l	0.0228	0	.025	91.2	45-137	L578523-02	WG596879
trans-1,3-Dichloropropene	mg/l	0.0245	0.000575	.025	95.6	59-130	L578523-02	WG596879
Trichloroethene	mg/l	0.0223	0	.025	89.2	40-155	L578523-02	WG596879
Trichlorofluoromethane	mg/l	0.0238	0	.025	95.3	35-177	L578523-02	WG596879
Vinyl chloride	mg/l	0.0218	0	.025	87.3	32-159	L578523-02	WG596879
4-Bromofluorobenzene					93.96	82-120		WG596879
Dibromofluoromethane					104.8	82-126		WG596879
Toluene-d8					101.7	92-112		WG596879
a,a,a-Trifluorotoluene					99.48	90-116		WG596879
Hardness, Total (mg/L as CaCO3)	mg/l	213.	70.0	150	95.3	80-120	L578910-02	WG597312
Alkalinity	mg/l	120.	36.0	100	84.0	80-120	L578882-01	WG597223
Arsenic, Dissolved	mg/l	0.976	0	1	97.6	75-125	L578946-01	WG597194
Barium, Dissolved	mg/l	76.6	77.0	1	0*	75-125	L578946-01	WG597194
Cadmium, Dissolved	mg/l	0.885	0	1	88.5	75-125	L578946-01	WG597194
Chromium, Dissolved	mg/l	0.933	0	1	93.3	75-125	L578946-01	WG597194
Lead, Dissolved	mg/l	0.895	0	1	89.5	75-125	L578946-01	WG597194
Silver, Dissolved	mg/l	1.10	0	1	110.	75-125	L578946-01	WG597194
Selenium, Dissolved	mg/l	0.948	0	.5	94.8	75-125	L578946-01	WG597194
Mercury, Dissolved	mg/l	0.00225	0	.00015	75.0	70-130	L578929-01	WG596951

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Nitrate	mg/l	6.39	6.52	99.8	80-120	2.01	20	L578911-01	WG596660
Chloride	mg/l	50.2	50.5	100.	80-120	0.596	20	L578805-01	WG596867

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Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit Ref	Samp	Batch
			Ref	%Rec					
1,1,1-Trichloroethane	mg/l	0.0240	0.0229	96.0	58-137	4.72	20	L578523-02	WG596879
1,1,2,2-Tetrachloroethane	mg/l	0.0277	0.0264	108.	64-149	4.94	20	L578523-02	WG596879
1,1,2-Trichloroethane	mg/l	0.0259	0.0240	92.0	73-128	7.61	20	L578523-02	WG596879
1,1-Dichloroethane	mg/l	0.0236	0.0230	94.4	58-133	2.43	20	L578523-02	WG596879
1,1-Dichloroethene	mg/l	0.0205	0.0195	81.8	32-152	4.54	20	L578523-02	WG596879
1,2-Dichlorobenzene	mg/l	0.0239	0.0232	95.6	75-125	2.82	20	L578523-02	WG596879
1,2-Dichloroethane	mg/l	0.0273	0.0257	108.	59-135	6.14	20	L578523-02	WG596879
1,2-Dichloropropane	mg/l	0.0245	0.0235	92.0	68-126	4.40	20	L578523-02	WG596879
1,3-Dichlorobenzene	mg/l	0.0237	0.0219	94.7	69-131	7.71	20	L578523-02	WG596879
1,4-Dichlorobenzene	mg/l	0.0229	0.0223	91.6	70-123	2.67	20	L578523-02	WG596879
2-Chloroethyl vinyl ether	mg/l	0.133	0.127	106.	10-161	4.90	40	L578523-02	WG596879
Benzene	mg/l	0.0253	0.0249	91.0	51-134	1.59	20	L578523-02	WG596879
Bromodichloromethane	mg/l	0.0256	0.0253	92.4	67-132	0.920	20	L578523-02	WG596879
Bromoform	mg/l	0.0257	0.0239	103.	59-137	7.30	20	L578523-02	WG596879
Bromomethane	mg/l	0.0263	0.0250	105.	23-177	5.10	21	L578523-02	WG596879
Carbon tetrachloride	mg/l	0.0233	0.0225	93.1	49-140	3.20	20	L578523-02	WG596879
Chlorobenzene	mg/l	0.0227	0.0220	86.5	69-126	2.78	20	L578523-02	WG596879
Chlorodibromomethane	mg/l	0.0249	0.0239	96.3	68-130	4.33	20	L578523-02	WG596879
Chloroethane	mg/l	0.0220	0.0221	87.9	32-177	0.370	21	L578523-02	WG596879
Chloroform	mg/l	0.0262	0.0247	98.4	64-130	6.16	20	L578523-02	WG596879
Chloromethane	mg/l	0.0183	0.0178	73.3	27-155	2.86	20	L578523-02	WG596879
cis-1,3-Dichloropropene	mg/l	0.0244	0.0238	97.4	63-127	2.20	20	L578523-02	WG596879
Dichlorodifluoromethane	mg/l	0.0262	0.0257	105.	16-188	1.78	22	L578523-02	WG596879
Ethylbenzene	mg/l	0.0688	0.0664	79.2	64-135	3.49	20	L578523-02	WG596879
Methyl tert-butyl ether	mg/l	0.0321	0.0306	104.	55-136	4.75	20	L578523-02	WG596879
Methylene Chloride	mg/l	0.0203	0.0196	81.2	52-130	3.60	20	L578523-02	WG596879
Naphthalene	mg/l	0.0522	0.0495	133.	65-140	5.27	20	L578523-02	WG596879
Tetrachloroethene	mg/l	0.0220	0.0207	88.0	56-139	6.33	20	L578523-02	WG596879
Toluene	mg/l	0.0233	0.0227	93.2	61-126	2.78	20	L578523-02	WG596879
trans-1,2-Dichloroethene	mg/l	0.0230	0.0228	92.2	45-137	1.12	20	L578523-02	WG596879
trans-1,3-Dichloropropene	mg/l	0.0258	0.0245	101.	59-130	5.05	20	L578523-02	WG596879
Trichloroethene	mg/l	0.0227	0.0223	90.8	40-155	1.88	20	L578523-02	WG596879
Trichlorofluoromethane	mg/l	0.0243	0.0238	97.2	35-177	1.99	23	L578523-02	WG596879
Vinyl chloride	mg/l	0.0220	0.0218	87.8	32-159	0.640	21	L578523-02	WG596879
4-Bromofluorobenzene				98.80	82-120				WG596879
Dibromofluoromethane				102.9	82-126				WG596879
Toluene-d8				101.5	92-112				WG596879
a,a,a-Trifluorotoluene				101.1	90-116				WG596879
Hardness, Total (mg/L as CaCO3)	mg/l	210.	213.	93.3	80-120	1.42	20	L578910-02	WG597312
Alkalinity	mg/l	116.	120.	80.0	80-120	3.39	20	L578882-01	WG597223
Arsenic, Dissolved	mg/l	1.02	0.976	102.	75-125	4.41	20	L578946-01	WG597194
Barium, Dissolved	mg/l	79.4	76.6	240.*	75-125	3.59	20	L578946-01	WG597194
Cadmium, Dissolved	mg/l	0.897	0.885	89.7	75-125	1.35	20	L578946-01	WG597194
Chromium, Dissolved	mg/l	0.970	0.933	97.0	75-125	3.89	20	L578946-01	WG597194
Lead, Dissolved	mg/l	0.931	0.895	93.1	75-125	3.94	20	L578946-01	WG597194
Silver, Dissolved	mg/l	1.10	1.10	110.	75-125	0	20	L578946-01	WG597194
Selenium, Dissolved	mg/l	0.931	0.948	93.1	75-125	1.81	20	L578946-01	WG597194
Mercury, Dissolved	mg/l	0.00304	0.00225	101.	70-130	29.9	30	L578929-01	WG596951

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

June 14, 2012

Batch number /Run number / Sample number cross reference

WG596660: R2202957: L578929-01
WG596867: R2203573: L578929-01
WG596879: R2205002: L578929-01
WG596741: R2205353: L578929-01
WG596976: R2205614: L578929-01
WG596918: R2206013: L578929-01
WG597312: R2206393: L578929-01
WG597030: R2206753: L578929-01
WG597223: R2207875: L578929-01
WG597194: R2208173: L578929-01
WG596951: R2208753: L578929-01
WG597190: R2209696: L578929-01

* * 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.'



YOUR LAB OF CHOICE

WPX Energy
Karolina Blaney
1058 County Road 215

Parachute, CO 81635

Quality Assurance Report
Level II

L578929

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
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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.



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Karolina Blaney
WPX Energy
1058 County Road 215
Parachute, CO 81635

Report Summary

Tuesday July 03, 2012

Report Number: L578933

Samples Received: 06/07/12

Client Project:

Description: TR41-35-597 #2

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:

T. Alan Harvill , 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

July 03, 2012

Karolina Blaney
WPX Energy
1058 County Road 215
Parachute, CO 81635

Date Received : June 07, 2012
Description : TR41-35-597 #2
Sample ID : TR41-35-597 # 2
Collected By :
Collection Date : 06/06/12 13:00

ESC Sample # : L578933-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Gross Alpha	BDL	55.	pCi/l	900.0	06/26/12	1
Gross Beta	BDL	59.	pCi/l	900.0	06/26/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 07/03/12 11:38 Printed: 07/03/12 14:23

L578933-01 (GROSS BETA) - subcontracted to Radiation Safety Engr Inc

L578933-01 (GROSS ALPHA) - subcontracted to Radiation Safety Engr Inc



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July 03, 2012

Batch number /Run number / Sample number cross reference

WG596709: R2237834: L578933-01

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* Performance of this Analyte is outside of established criteria.
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