



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

Est. 1970

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

## Report Summary

Wednesday May 13, 2015

Report Number: L762730

Samples Received: 05/02/15

Client Project: KP 44-20-691

Description: KP 44-20-691

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, IA Lab #364, EPA - TN002

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# REPORT OF ANALYSIS

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

May 13, 2015

Date Received : May 02, 2015  
Description : KP 44-20-691  
Sample ID : KP 44-20-691  
Collected By :  
Collection Date : 05/01/15 10:35

ESC Sample # : L762730-01  
Site ID : KP 44-20-691  
Project # : KP 44-20-691

| Parameter                       | Result | Det. Limit | Units    | Method        | Date     | Dil. |
|---------------------------------|--------|------------|----------|---------------|----------|------|
| Bromide                         | 59.    | 1.0        | mg/l     | 300.0         | 05/02/15 | 1    |
| Chloride                        | 7900   | 100        | mg/l     | 300.0         | 05/12/15 | 100  |
| Fluoride                        | BDL    | 0.10       | mg/l     | 300.0         | 05/13/15 | 1    |
| Nitrate                         | BDL    | 0.10       | mg/l     | 300.0         | 05/02/15 | 1    |
| Nitrite                         | BDL    | 0.10       | mg/l     | 300.0         | 05/02/15 | 1    |
| Sulfate                         | BDL    | 5.0        | mg/l     | 300.0         | 05/02/15 | 1    |
| Alkalinity                      | 1600   | 200        | mg/l     | 2320 B-2011   | 05/11/15 | 10   |
| Hardness, Total (mg/L as CaCO3) | 600    | 150        | mg/l     | 130.1         | 05/08/15 | 5    |
| pH                              | 7.4    |            | su       | 4500H+ B-2011 | 05/05/15 | 1    |
| Specific Conductance            | 25000  |            | umhos/cm | 120.1         | 05/07/15 | 1    |
| Dissolved Solids                | 15000  | 10.        | mg/l     | 2540 C-2011   | 05/09/15 | 1    |
| Mercury,Dissolved               | BDL    | 0.00020    | mg/l     | 245.1         | 05/06/15 | 1    |
| Arsenic,Dissolved               | BDL    | 0.20       | mg/l     | 200.7         | 05/05/15 | 10   |
| Barium,Dissolved                | 7.1    | 0.050      | mg/l     | 200.7         | 05/05/15 | 10   |
| Calcium,Dissolved               | 170    | 10.        | mg/l     | 200.7         | 05/05/15 | 10   |
| Chromium,Dissolved              | BDL    | 0.10       | mg/l     | 200.7         | 05/05/15 | 10   |
| Lead,Dissolved                  | BDL    | 0.050      | mg/l     | 200.7         | 05/05/15 | 10   |
| Selenium,Dissolved              | BDL    | 0.20       | mg/l     | 200.7         | 05/05/15 | 10   |
| Silver,Dissolved                | BDL    | 0.10       | mg/l     | 200.7         | 05/05/15 | 10   |
| Volatile Organics               |        |            |          |               |          |      |
| Benzene                         | 3.2    | 0.10       | mg/l     | 624           | 05/06/15 | 100  |
| Bromodichloromethane            | BDL    | 0.10       | mg/l     | 624           | 05/06/15 | 100  |
| Bromoform                       | BDL    | 0.10       | mg/l     | 624           | 05/06/15 | 100  |
| Bromomethane                    | BDL    | 0.50       | mg/l     | 624           | 05/06/15 | 100  |
| Carbon tetrachloride            | BDL    | 0.10       | mg/l     | 624           | 05/06/15 | 100  |
| Chlorobenzene                   | BDL    | 0.10       | mg/l     | 624           | 05/06/15 | 100  |
| Chlorodibromomethane            | BDL    | 0.10       | mg/l     | 624           | 05/06/15 | 100  |
| Chloroethane                    | BDL    | 0.50       | mg/l     | 624           | 05/06/15 | 100  |
| 2-Chloroethyl vinyl ether       | BDL    | 5.0        | mg/l     | 624           | 05/06/15 | 100  |
| Chloroform                      | BDL    | 0.50       | mg/l     | 624           | 05/06/15 | 100  |
| Chloromethane                   | BDL    | 0.25       | mg/l     | 624           | 05/06/15 | 100  |
| 1,2-Dichlorobenzene             | BDL    | 0.10       | mg/l     | 624           | 05/06/15 | 100  |
| 1,3-Dichlorobenzene             | BDL    | 0.10       | mg/l     | 624           | 05/06/15 | 100  |
| 1,4-Dichlorobenzene             | BDL    | 0.10       | mg/l     | 624           | 05/06/15 | 100  |
| Dichlorodifluoromethane         | BDL    | 0.50       | mg/l     | 624           | 05/06/15 | 100  |
| 1,1-Dichloroethane              | BDL    | 0.10       | mg/l     | 624           | 05/06/15 | 100  |

BDL - Below Detection Limit  
Det. Limit - Practical Quantitation Limit(PQL)  
L762730-01 (PH) - 7.4 at 20.2c



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# REPORT OF ANALYSIS

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

May 13, 2015

Date Received : May 02, 2015  
Description : KP 44-20-691

Sample ID : KP 44-20-691

Collected By :  
Collection Date : 05/01/15 10:35

ESC Sample # : L762730-01

Site ID : KP 44-20-691

Project # : KP 44-20-691

| Parameter                   | Result | Det. Limit | Units  | Method | Date     | Dil. |
|-----------------------------|--------|------------|--------|--------|----------|------|
| 1,2-Dichloroethane          | BDL    | 0.10       | mg/l   | 624    | 05/06/15 | 100  |
| 1,1-Dichloroethene          | BDL    | 0.10       | mg/l   | 624    | 05/06/15 | 100  |
| trans-1,2-Dichloroethene    | BDL    | 0.10       | mg/l   | 624    | 05/06/15 | 100  |
| 1,2-Dichloropropane         | BDL    | 0.10       | mg/l   | 624    | 05/06/15 | 100  |
| cis-1,3-Dichloropropene     | BDL    | 0.10       | mg/l   | 624    | 05/06/15 | 100  |
| trans-1,3-Dichloropropene   | BDL    | 0.10       | mg/l   | 624    | 05/06/15 | 100  |
| Ethylbenzene                | 0.27   | 0.10       | mg/l   | 624    | 05/06/15 | 100  |
| Methylene Chloride          | BDL    | 0.50       | mg/l   | 624    | 05/06/15 | 100  |
| Methyl tert-butyl ether     | BDL    | 0.50       | mg/l   | 624    | 05/06/15 | 100  |
| Naphthalene                 | BDL    | 0.50       | mg/l   | 624    | 05/06/15 | 100  |
| 1,1,2,2-Tetrachloroethane   | BDL    | 0.10       | mg/l   | 624    | 05/06/15 | 100  |
| Tetrachloroethene           | BDL    | 0.10       | mg/l   | 624    | 05/06/15 | 100  |
| Toluene                     | 6.5    | 0.50       | mg/l   | 624    | 05/06/15 | 100  |
| 1,1,1-Trichloroethane       | BDL    | 0.10       | mg/l   | 624    | 05/06/15 | 100  |
| 1,1,2-Trichloroethane       | BDL    | 0.10       | mg/l   | 624    | 05/06/15 | 100  |
| Trichloroethene             | BDL    | 0.10       | mg/l   | 624    | 05/06/15 | 100  |
| Trichlorofluoromethane      | BDL    | 0.50       | mg/l   | 624    | 05/06/15 | 100  |
| Vinyl chloride              | BDL    | 0.10       | mg/l   | 624    | 05/06/15 | 100  |
| Xylenes, Total              | 4.1    | 0.30       | mg/l   | 624    | 05/06/15 | 100  |
| Surrogate Recovery          |        |            |        |        |          |      |
| Toluene-d8                  | 99.5   |            | % Rec. | 624    | 05/06/15 | 1    |
| Dibromofluoromethane        | 96.2   |            | % Rec. | 624    | 05/06/15 | 1    |
| a,a,a-Trifluorotoluene      | 109.   |            | % Rec. | 624    | 05/06/15 | 1    |
| 4-Bromofluorobenzene        | 101.   |            | % Rec. | 624    | 05/06/15 | 1    |
| Base/Neutral Extractables   |        |            |        |        |          |      |
| Acenaphthene                | 0.0012 | 0.0010     | mg/l   | 625    | 05/06/15 | 1    |
| Acenaphthylene              | BDL    | 0.0010     | mg/l   | 625    | 05/06/15 | 1    |
| Anthracene                  | 0.0011 | 0.0010     | mg/l   | 625    | 05/06/15 | 1    |
| Benzidine                   | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| Benzo(a)anthracene          | BDL    | 0.0010     | mg/l   | 625    | 05/06/15 | 1    |
| Benzo(b)fluoranthene        | BDL    | 0.0010     | mg/l   | 625    | 05/06/15 | 1    |
| Benzo(k)fluoranthene        | BDL    | 0.0010     | mg/l   | 625    | 05/06/15 | 1    |
| Benzo(g,h,i)perylene        | BDL    | 0.0010     | mg/l   | 625    | 05/06/15 | 1    |
| Benzo(a)pyrene              | BDL    | 0.0010     | mg/l   | 625    | 05/06/15 | 1    |
| Bis(2-chlorethoxy)methane   | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| Bis(2-chloroethyl)ether     | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| Bis(2-chloroisopropyl)ether | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| 4-Bromophenyl-phenylether   | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| 2-Chloronaphthalene         | BDL    | 0.0010     | mg/l   | 625    | 05/06/15 | 1    |
| 4-Chlorophenyl-phenylether  | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| Chrysene                    | BDL    | 0.0010     | mg/l   | 625    | 05/06/15 | 1    |
| Dibenz(a,h)anthracene       | BDL    | 0.0010     | mg/l   | 625    | 05/06/15 | 1    |
| 3,3-Dichlorobenzidine       | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |

BDL - Below Detection Limit  
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May 13, 2015

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WPX Energy  
1058 County Road 215  
Parachute, CO 81635

Date Received : May 02, 2015  
Description : KP 44-20-691

Sample ID : KP 44-20-691

Collected By :  
Collection Date : 05/01/15 10:35

ESC Sample # : L762730-01

Site ID : KP 44-20-691

Project # : KP 44-20-691

| Parameter                  | Result | Det. Limit | Units  | Method | Date     | Dil. |
|----------------------------|--------|------------|--------|--------|----------|------|
| 2,4-Dinitrotoluene         | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| 2,6-Dinitrotoluene         | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| 1,2-Diphenylhydrazine      | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| Fluoranthene               | BDL    | 0.0010     | mg/l   | 625    | 05/06/15 | 1    |
| Fluorene                   | 0.0046 | 0.0010     | mg/l   | 625    | 05/06/15 | 1    |
| Hexachlorobenzene          | BDL    | 0.0010     | mg/l   | 625    | 05/06/15 | 1    |
| Hexachloro-1,3-butadiene   | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| Hexachlorocyclopentadiene  | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| Hexachloroethane           | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| Indeno(1,2,3-cd)pyrene     | BDL    | 0.0010     | mg/l   | 625    | 05/06/15 | 1    |
| Isophorone                 | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| Naphthalene                | 0.032  | 0.0010     | mg/l   | 625    | 05/06/15 | 1    |
| Nitrobenzene               | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| n-Nitrosodimethylamine     | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| n-Nitrosodiphenylamine     | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| n-Nitrosodi-n-propylamine  | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| Phenanthrene               | 0.0050 | 0.0010     | mg/l   | 625    | 05/06/15 | 1    |
| Benzylbutyl phthalate      | BDL    | 0.0030     | mg/l   | 625    | 05/06/15 | 1    |
| Bis(2-ethylhexyl)phthalate | BDL    | 0.0030     | mg/l   | 625    | 05/06/15 | 1    |
| Di-n-butyl phthalate       | BDL    | 0.0030     | mg/l   | 625    | 05/06/15 | 1    |
| Diethyl phthalate          | BDL    | 0.0030     | mg/l   | 625    | 05/06/15 | 1    |
| Dimethyl phthalate         | BDL    | 0.0030     | mg/l   | 625    | 05/06/15 | 1    |
| Di-n-octyl phthalate       | BDL    | 0.0030     | mg/l   | 625    | 05/06/15 | 1    |
| Pyrene                     | BDL    | 0.0010     | mg/l   | 625    | 05/06/15 | 1    |
| 1,2,4-Trichlorobenzene     | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| Acid Extractables          |        |            |        |        |          |      |
| 4-Chloro-3-methylphenol    | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| 2-Chlorophenol             | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| 2,4-Dichlorophenol         | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| 2,4-Dimethylphenol         | 0.11   | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| 4,6-Dinitro-2-methylphenol | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| 2,4-Dinitrophenol          | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| 2-Nitrophenol              | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| 4-Nitrophenol              | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| Pentachlorophenol          | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| Phenol                     | 0.15   | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| 2,4,6-Trichlorophenol      | BDL    | 0.010      | mg/l   | 625    | 05/06/15 | 1    |
| Surrogate Recovery         |        |            |        |        |          |      |
| Nitrobenzene-d5            | 78.3   |            | % Rec. | 625    | 05/06/15 | 1    |
| 2-Fluorobiphenyl           | 51.3   |            | % Rec. | 625    | 05/06/15 | 1    |
| p-Terphenyl-d14            | 63.3   |            | % Rec. | 625    | 05/06/15 | 1    |
| Phenol-d5                  | 33.0   |            | % Rec. | 625    | 05/06/15 | 1    |
| 2-Fluorophenol             | 39.8   |            | % Rec. | 625    | 05/06/15 | 1    |
| 2,4,6-Tribromophenol       | 49.0   |            | % Rec. | 625    | 05/06/15 | 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: 05/13/15 22:15 Printed: 05/13/15 22:15  
L762730-01 (PH) - 7.4 at 20.2c

Attachment A  
List of Analytes with QC Qualifiers

| Sample<br>Number | Work<br>Group | Sample<br>Type | Analyte                   | Run<br>ID | Qualifier |
|------------------|---------------|----------------|---------------------------|-----------|-----------|
| L762730-01       | WG786417      | SAMP           | 2-Chloroethyl vinyl ether | R3035284  | J3        |
|                  | WG786680      | SAMP           | pH                        | R3035141  | T8        |
|                  | WG786936      | SAMP           | Mercury,Dissolved         | R3035413  | J601      |

Attachment B  
Explanation of QC Qualifier Codes

| Qualifier | Meaning   |
|-----------|---|
| J3        | The associated batch QC was outside the established quality control range for precision.  |
| J6        | The sample matrix interfered with the ability to make any accurate determination; spike value is low  |
| O1        | (ESC) The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference. |
| 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.



YOUR LAB OF CHOICE

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Quality Assurance Report  
Level II

L762730

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May 13, 2015

| Analyte                   | Result  | Laboratory Blank |       | Limit    | Batch    | Date Analyzed  |
|---------------------------|---------|------------------|-------|----------|----------|----------------|
|                           |         | Units            | % Rec |          |          |                |
| Bromide                   | < 1     | mg/l             |       |          | WG786303 | 05/02/15 11:11 |
| Nitrate                   | < .1    | mg/l             |       |          | WG786303 | 05/02/15 11:11 |
| Nitrite                   | < .1    | mg/l             |       |          | WG786303 | 05/02/15 11:11 |
| Sulfate                   | < 5     | mg/l             |       |          | WG786303 | 05/02/15 11:11 |
| Arsenic, Dissolved        | < .02   | mg/l             |       |          | WG786716 | 05/05/15 18:01 |
| Calcium, Dissolved        | < 1     | mg/l             |       |          | WG786716 | 05/05/15 18:01 |
| Chromium, Dissolved       | < .01   | mg/l             |       |          | WG786716 | 05/05/15 18:01 |
| Lead, Dissolved           | < .005  | mg/l             |       |          | WG786716 | 05/05/15 18:01 |
| Selenium, Dissolved       | < .02   | mg/l             |       |          | WG786716 | 05/05/15 18:01 |
| Silver, Dissolved         | < .01   | mg/l             |       |          | WG786716 | 05/05/15 18:01 |
| Barium, Dissolved         | < .005  | mg/l             |       |          | WG786716 | 05/05/15 22:48 |
| 1,1,1-Trichloroethane     | < .001  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| 1,1,2,2-Tetrachloroethane | < .001  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| 1,1,2-Trichloroethane     | < .001  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| 1,1-Dichloroethane        | < .001  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| 1,1-Dichloroethene        | < .001  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| 1,2-Dichlorobenzene       | < .001  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| 1,2-Dichloroethane        | < .001  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| 1,2-Dichloropropane       | < .001  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| 1,3-Dichlorobenzene       | < .001  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| 1,4-Dichlorobenzene       | < .001  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| 2-Chloroethyl vinyl ether | < .05   | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| Benzene                   | < .001  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| Bromodichloromethane      | < .001  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| Bromoform                 | < .001  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| Bromomethane              | < .005  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| Carbon tetrachloride      | < .001  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| Chlorobenzene             | < .001  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| Chlorodibromomethane      | < .001  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| Chloroethane              | < .005  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| Chloroform                | < .005  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| Chloromethane             | < .0025 | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| cis-1,3-Dichloropropene   | < .001  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| Dichlorodifluoromethane   | < .005  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| Ethylbenzene              | < .001  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| Methyl tert-butyl ether   | < .001  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| Methylene Chloride        | < .005  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| Naphthalene               | < .005  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| Tetrachloroethene         | < .001  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| Toluene                   | < .005  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| trans-1,2-Dichloroethene  | < .001  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| trans-1,3-Dichloropropene | < .001  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| Trichloroethene           | < .001  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| Trichlorofluoromethane    | < .005  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| Vinyl chloride            | < .001  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| Xylenes, Total            | < .003  | mg/l             |       |          | WG786417 | 05/06/15 01:19 |
| 4-Bromofluorobenzene      |         | % Rec.           | 97.30 | 71-126   | WG786417 | 05/06/15 01:19 |
| Dibromofluoromethane      |         | % Rec.           | 94.00 | 78.3-121 | WG786417 | 05/06/15 01:19 |
| Toluene-d8                |         | % Rec.           | 96.00 | 88.5-111 | WG786417 | 05/06/15 01:19 |
| a,a,a-Trifluorotoluene    |         | % Rec.           | 106.0 | 85-114   | WG786417 | 05/06/15 01:19 |
| Mercury, Dissolved        | < .0002 | mg/l             |       |          | WG786936 | 05/06/15 23:18 |

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Tax I.D. 62-0814289

Est. 1970

May 13, 2015

| Analyte                         | Result | Laboratory Blank |       | Limit | Batch    | Date Analyzed  |
|---------------------------------|--------|------------------|-------|-------|----------|----------------|
|                                 |        | Units            | % Rec |       |          |                |
| Specific Conductance            | 1.05   | umhos/cm         |       |       | WG787279 | 05/07/15 15:24 |
| Hardness, Total (mg/L as CaCO3) | < 30   | mg/l             |       |       | WG787461 | 05/08/15 15:23 |
| Dissolved Solids                | < 10   | mg/l             |       |       | WG787143 | 05/09/15 13:39 |
| Alkalinity                      | < 20   | mg/l             |       |       | WG788008 | 05/11/15 06:53 |
| Chloride                        | < 1    | mg/l             |       |       | WG788312 | 05/12/15 09:22 |
| Fluoride                        | < .1   | mg/l             |       |       | WG788618 | 05/13/15 12:40 |
| 1,2,4-Trichlorobenzene          | < .01  | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| 2,4,6-Trichlorophenol           | < .01  | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| 2,4-Dichlorophenol              | < .01  | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| 2,4-Dimethylphenol              | < .01  | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| 2,4-Dinitrophenol               | < .01  | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| 2,4-Dinitrotoluene              | < .01  | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| 2,6-Dinitrotoluene              | < .01  | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| 2-Chloronaphthalene             | < .001 | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| 2-Chlorophenol                  | < .01  | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| 2-Nitrophenol                   | < .01  | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| 3,3-Dichlorobenzidine           | < .01  | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| 4,6-Dinitro-2-methylphenol      | < .01  | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| 4-Bromophenyl-phenylether       | < .01  | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| 4-Chloro-3-methylphenol         | < .01  | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| 4-Chlorophenyl-phenylether      | < .01  | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| 4-Nitrophenol                   | < .01  | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| Acenaphthene                    | < .001 | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| Acenaphthylene                  | < .001 | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| Anthracene                      | < .001 | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| 1,2-Diphenylhydrazine           | < .01  | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| Benzidine                       | < .01  | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| Benzo(a)anthracene              | < .001 | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| Benzo(a)pyrene                  | < .001 | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| Benzo(b)fluoranthene            | < .001 | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| Benzo(g,h,i)perylene            | < .001 | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| Benzo(k)fluoranthene            | < .001 | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| Benzylbutyl phthalate           | < .003 | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| Bis(2-chlorethoxy)methane       | < .01  | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| Bis(2-chloroethyl)ether         | < .01  | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| Bis(2-chloroisopropyl)ether     | < .01  | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| Bis(2-ethylhexyl)phthalate      | < .003 | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| Chrysene                        | < .001 | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| Di-n-butyl phthalate            | < .003 | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| Di-n-octyl phthalate            | < .003 | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| Dibenz(a,h)anthracene           | < .001 | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| Diethyl phthalate               | < .003 | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| Dimethyl phthalate              | < .003 | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| Fluoranthene                    | < .001 | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| Fluorene                        | < .001 | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| Hexachloro-1,3-butadiene        | < .01  | mg/l             |       |       | WG786843 | 05/06/15 03:32 |
| Hexachlorobenzene               | < .001 | mg/l             |       |       | WG786843 | 05/06/15 03:32 |

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| Analyte                   | Result | Laboratory Blank |       | Limit    | Batch    | Date Analyzed  |
|---------------------------|--------|------------------|-------|----------|----------|----------------|
|                           |        | Units            | % Rec |          |          |                |
| Hexachlorocyclopentadiene | < .01  | mg/l             |       |          | WG786843 | 05/06/15 03:32 |
| Hexachloroethane          | < .01  | mg/l             |       |          | WG786843 | 05/06/15 03:32 |
| Indeno(1,2,3-cd)pyrene    | < .001 | mg/l             |       |          | WG786843 | 05/06/15 03:32 |
| Isophorone                | < .01  | mg/l             |       |          | WG786843 | 05/06/15 03:32 |
| n-Nitrosodi-n-propylamine | < .01  | mg/l             |       |          | WG786843 | 05/06/15 03:32 |
| n-Nitrosodimethylamine    | < .01  | mg/l             |       |          | WG786843 | 05/06/15 03:32 |
| n-Nitrosodiphenylamine    | < .01  | mg/l             |       |          | WG786843 | 05/06/15 03:32 |
| Naphthalene               | < .001 | mg/l             |       |          | WG786843 | 05/06/15 03:32 |
| Nitrobenzene              | < .01  | mg/l             |       |          | WG786843 | 05/06/15 03:32 |
| Pentachlorophenol         | < .001 | mg/l             |       |          | WG786843 | 05/06/15 03:32 |
| Phenanthrene              | < .001 | mg/l             |       |          | WG786843 | 05/06/15 03:32 |
| Phenol                    | < .01  | mg/l             |       |          | WG786843 | 05/06/15 03:32 |
| Pyrene                    | < .001 | mg/l             |       |          | WG786843 | 05/06/15 03:32 |
| 2,4,6-Tribromophenol      | % Rec. |                  | 71.60 | 11.2-130 | WG786843 | 05/06/15 03:32 |
| 2-Fluorobiphenyl          | % Rec. |                  | 63.70 | 29.5-131 | WG786843 | 05/06/15 03:32 |
| 2-Fluorophenol            | % Rec. |                  | 47.20 | 10-77.9  | WG786843 | 05/06/15 03:32 |
| Nitrobenzene-d5           | % Rec. |                  | 65.60 | 21.8-123 | WG786843 | 05/06/15 03:32 |
| Phenol-d5                 | % Rec. |                  | 31.70 | 5-70.1   | WG786843 | 05/06/15 03:32 |
| p-Terphenyl-d14           | % Rec. |                  | 64.00 | 29.3-137 | WG786843 | 05/06/15 03:32 |

| Analyte                         | Units    | Result | Duplicate |  | RPD   | Limit | Ref Samp   | Batch    |
|---------------------------------|----------|--------|-----------|--|-------|-------|------------|----------|
|                                 |          |        | Duplicate |  |       |       |            |          |
| Bromide                         | mg/l     | 0.0    | 0.0       |  | 0.0   | 20    | L762688-02 | WG786303 |
| Nitrate                         | mg/l     | 2.80   | 2.67      |  | 4.00  | 20    | L762688-02 | WG786303 |
| Nitrite                         | mg/l     | 0.0    | 0.0       |  | 0.0   | 20    | L762688-02 | WG786303 |
| Sulfate                         | mg/l     | 46.0   | 46.5      |  | 0.0   | 20    | L762688-02 | WG786303 |
| Bromide                         | mg/l     | 59.0   | 58.7      |  | 0.0   | 20    | L762730-01 | WG786303 |
| Nitrate                         | mg/l     | 0.0    | 0.0       |  | 0.0   | 20    | L762730-01 | WG786303 |
| Nitrite                         | mg/l     | 0.0    | 0.0       |  | 0.0   | 20    | L762730-01 | WG786303 |
| Sulfate                         | mg/l     | 0.0    | 0.0       |  | 0.0   | 20    | L762730-01 | WG786303 |
| pH                              | su       | 6.40   | 6.50      |  | 0.772 | 1     | L762443-01 | WG786680 |
| pH                              | su       | 7.40   | 7.40      |  | 0.542 | 1     | L762730-01 | WG786680 |
| Specific Conductance            | umhos/cm | 4300   | 4300      |  | 0.466 | 20    | L762258-01 | WG787279 |
| Specific Conductance            | umhos/cm | 770.   | 770.      |  | 0.521 | 20    | L763289-01 | WG787279 |
| Hardness, Total (mg/L as CaCO3) | mg/l     | 60.0   | 58.9      |  | 1.85  | 20    | L762744-01 | WG787461 |
| Hardness, Total (mg/L as CaCO3) | mg/l     | 62.0   | 60.0      |  | 3.28  | 20    | L762913-02 | WG787461 |
| Dissolved Solids                | mg/l     | 15000  | 14800     |  | 1.88  | 5     | L762730-01 | WG787143 |
| Alkalinity                      | mg/l     | 600.   | 560.      |  | 6.90  | 20    | L761991-01 | WG788008 |
| Alkalinity                      | mg/l     | 940.   | 940.      |  | 0.426 | 20    | L761991-02 | WG788008 |
| Chloride                        | mg/l     | 15.0   | 15.2      |  | 0.0   | 20    | L764341-08 | WG788312 |

| Analyte | Units | Laboratory Control Sample |        | % Rec | Limit  | Batch    |
|---------|-------|---------------------------|--------|-------|--------|----------|
|         |       | Known Val                 | Result |       |        |          |
| Bromide | mg/l  | 40                        | 39.9   | 100.  | 90-110 | WG786303 |
| Nitrate | mg/l  | 8                         | 8.24   | 103.  | 90-110 | WG786303 |

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| Analyte                   | Units | Laboratory Control Sample |        | % Rec | Limit      | Batch    |
|---------------------------|-------|---------------------------|--------|-------|------------|----------|
|                           |       | Known Val                 | Result |       |            |          |
| Nitrite                   | mg/l  | 8                         | 7.94   | 99.0  | 90-110     | WG786303 |
| Sulfate                   | mg/l  | 40                        | 40.1   | 100.  | 90-110     | WG786303 |
| pH                        | su    | 7.84                      | 7.76   | 99.0  | 98.3-101.7 | WG786680 |
| Arsenic, Dissolved        | mg/l  | 1                         | 1.08   | 108.  | 85-115     | WG786716 |
| Calcium, Dissolved        | mg/l  | 10                        | 9.49   | 95.0  | 85-115     | WG786716 |
| Chromium, Dissolved       | mg/l  | 1                         | 0.982  | 98.0  | 85-115     | WG786716 |
| Lead, Dissolved           | mg/l  | 1                         | 0.983  | 98.0  | 85-115     | WG786716 |
| Selenium, Dissolved       | mg/l  | 1                         | 1.11   | 111.  | 85-115     | WG786716 |
| Silver, Dissolved         | mg/l  | 1                         | 1.02   | 102.  | 85-115     | WG786716 |
| Barium, Dissolved         | mg/l  | 1                         | 0.965  | 97.0  | 85-115     | WG786716 |
| 1,1,1-Trichloroethane     | mg/l  | .025                      | 0.0258 | 103.  | 73.2-123   | WG786417 |
| 1,1,2,2-Tetrachloroethane | mg/l  | .025                      | 0.0234 | 93.6  | 70.7-122   | WG786417 |
| 1,1,2-Trichloroethane     | mg/l  | .025                      | 0.0246 | 98.2  | 77.7-118   | WG786417 |
| 1,1-Dichloroethane        | mg/l  | .025                      | 0.0217 | 86.8  | 70.7-126   | WG786417 |
| 1,1-Dichloroethene        | mg/l  | .025                      | 0.0216 | 86.4  | 67.8-129   | WG786417 |
| 1,2-Dichlorobenzene       | mg/l  | .025                      | 0.0245 | 97.8  | 78.4-117   | WG786417 |
| 1,2-Dichloroethane        | mg/l  | .025                      | 0.0266 | 106.  | 68.8-124   | WG786417 |
| 1,2-Dichloropropane       | mg/l  | .025                      | 0.0224 | 89.5  | 76.5-119   | WG786417 |
| 1,3-Dichlorobenzene       | mg/l  | .025                      | 0.0250 | 99.8  | 70.8-128   | WG786417 |
| 1,4-Dichlorobenzene       | mg/l  | .025                      | 0.0243 | 97.1  | 78.8-115   | WG786417 |
| 2-Chloroethyl vinyl ether | mg/l  | .125                      | 0.118  | 94.3  | 43.8-150   | WG786417 |
| Benzene                   | mg/l  | .025                      | 0.0204 | 81.5  | 74.8-121   | WG786417 |
| Bromodichloromethane      | mg/l  | .025                      | 0.0266 | 107.  | 75.1-116   | WG786417 |
| Bromoform                 | mg/l  | .025                      | 0.0300 | 120.  | 67.5-130   | WG786417 |
| Bromomethane              | mg/l  | .025                      | 0.0207 | 82.8  | 49.9-162   | WG786417 |
| Carbon tetrachloride      | mg/l  | .025                      | 0.0269 | 107.  | 70.2-123   | WG786417 |
| Chlorobenzene             | mg/l  | .025                      | 0.0240 | 96.0  | 78.1-119   | WG786417 |
| Chlorodibromomethane      | mg/l  | .025                      | 0.0285 | 114.  | 74-121     | WG786417 |
| Chloroethane              | mg/l  | .025                      | 0.0186 | 74.3  | 61.7-135   | WG786417 |
| Chloroform                | mg/l  | .025                      | 0.0227 | 90.9  | 76-121     | WG786417 |
| Chloromethane             | mg/l  | .025                      | 0.0187 | 74.7  | 61.5-129   | WG786417 |
| cis-1,3-Dichloropropene   | mg/l  | .025                      | 0.0243 | 97.0  | 78.2-120   | WG786417 |
| Dichlorodifluoromethane   | mg/l  | .025                      | 0.0236 | 94.2  | 54.8-135   | WG786417 |
| Ethylbenzene              | mg/l  | .025                      | 0.0239 | 95.7  | 78.8-122   | WG786417 |
| Methyl tert-butyl ether   | mg/l  | .025                      | 0.0208 | 83.2  | 71.2-126   | WG786417 |
| Methylene Chloride        | mg/l  | .025                      | 0.0196 | 78.5  | 70.3-120   | WG786417 |
| Naphthalene               | mg/l  | .025                      | 0.0221 | 88.2  | 68.4-128   | WG786417 |
| Tetrachloroethene         | mg/l  | .025                      | 0.0268 | 107.  | 72.6-126   | WG786417 |
| Toluene                   | mg/l  | .025                      | 0.0220 | 88.1  | 79.7-116   | WG786417 |
| trans-1,2-Dichloroethene  | mg/l  | .025                      | 0.0209 | 83.7  | 72.6-121   | WG786417 |
| trans-1,3-Dichloropropene | mg/l  | .025                      | 0.0232 | 92.9  | 74.3-123   | WG786417 |
| Trichloroethene           | mg/l  | .025                      | 0.0241 | 96.2  | 77.7-118   | WG786417 |
| Trichlorofluoromethane    | mg/l  | .025                      | 0.0240 | 96.1  | 63.5-135   | WG786417 |
| Vinyl chloride            | mg/l  | .025                      | 0.0191 | 76.3  | 65.9-128   | WG786417 |
| Xylenes, Total            | mg/l  | .075                      | 0.0711 | 94.8  | 78.7-121   | WG786417 |
| 4-Bromofluorobenzene      |       |                           |        | 96.10 | 71-126     | WG786417 |
| Dibromofluoromethane      |       |                           |        | 100.0 | 78.3-121   | WG786417 |
| Toluene-d8                |       |                           |        | 99.40 | 88.5-111   | WG786417 |
| a,a,a-Trifluorotoluene    |       |                           |        | 107.0 | 85-114     | WG786417 |
| 1,2,4-Trichlorobenzene    | mg/l  | .05                       | 0.0288 | 57.7  | 22.9-96.1  | WG786843 |
| 2,4,6-Trichlorophenol     | mg/l  | .05                       | 0.0417 | 83.3  | 29.8-107   | WG786843 |

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| Analyte                     | Units | Laboratory Control Sample |        | % Rec | Limit     | Batch    |
|-----------------------------|-------|---------------------------|--------|-------|-----------|----------|
|                             |       | Known Val                 | Result |       |           |          |
| 2,4-Dichlorophenol          | mg/l  | .05                       | 0.0383 | 76.6  | 31.4-103  | WG786843 |
| 2,4-Dimethylphenol          | mg/l  | .05                       | 0.0388 | 77.7  | 31.9-107  | WG786843 |
| 2,4-Dinitrophenol           | mg/l  | .05                       | 0.0352 | 70.3  | 24.2-128  | WG786843 |
| 2,4-Dinitrotoluene          | mg/l  | .05                       | 0.0436 | 87.2  | 31.2-105  | WG786843 |
| 2,6-Dinitrotoluene          | mg/l  | .05                       | 0.0427 | 85.3  | 30.6-106  | WG786843 |
| 2-Chloronaphthalene         | mg/l  | .05                       | 0.0356 | 71.2  | 33.6-105  | WG786843 |
| 2-Chlorophenol              | mg/l  | .05                       | 0.0325 | 65.1  | 26.2-91.5 | WG786843 |
| 2-Nitrophenol               | mg/l  | .05                       | 0.0387 | 77.3  | 25.9-106  | WG786843 |
| 3,3-Dichlorobenzidine       | mg/l  | .05                       | 0.0395 | 78.9  | 27.2-142  | WG786843 |
| 4,6-Dinitro-2-methylphenol  | mg/l  | .05                       | 0.0430 | 86.1  | 18.4-148  | WG786843 |
| 4-Bromophenyl-phenylether   | mg/l  | .05                       | 0.0411 | 82.1  | 40.7-116  | WG786843 |
| 4-Chloro-3-methylphenol     | mg/l  | .05                       | 0.0403 | 80.6  | 35.7-100  | WG786843 |
| 4-Chlorophenyl-phenylether  | mg/l  | .05                       | 0.0405 | 80.9  | 39-113    | WG786843 |
| 4-Nitrophenol               | mg/l  | .05                       | 0.0215 | 42.9  | 10-52.7   | WG786843 |
| Acenaphthene                | mg/l  | .05                       | 0.0373 | 74.5  | 38.7-109  | WG786843 |
| Acenaphthylene              | mg/l  | .05                       | 0.0375 | 75.1  | 36-106    | WG786843 |
| Anthracene                  | mg/l  | .05                       | 0.0397 | 79.5  | 43.6-113  | WG786843 |
| 1,2-Diphenylhydrazine       | mg/l  | .05                       | 0.0387 | 77.4  | 37.6-111  | WG786843 |
| Benidine                    | mg/l  | .05                       | 0.0232 | 46.4  | 10-165.2  | WG786843 |
| Benzo(a)anthracene          | mg/l  | .05                       | 0.0379 | 75.9  | 51.2-112  | WG786843 |
| Benzo(a)pyrene              | mg/l  | .05                       | 0.0393 | 78.5  | 45.6-106  | WG786843 |
| Benzo(b)fluoranthene        | mg/l  | .05                       | 0.0384 | 76.9  | 47.6-111  | WG786843 |
| Benzo(g,h,i)perylene        | mg/l  | .05                       | 0.0423 | 84.6  | 45.2-117  | WG786843 |
| Benzo(k)fluoranthene        | mg/l  | .05                       | 0.0395 | 79.0  | 49.4-114  | WG786843 |
| Benzylbutyl phthalate       | mg/l  | .05                       | 0.0405 | 81.0  | 31.8-123  | WG786843 |
| Bis(2-chlorethoxy)methane   | mg/l  | .05                       | 0.0331 | 66.2  | 37.2-111  | WG786843 |
| Bis(2-chloroethyl)ether     | mg/l  | .05                       | 0.0280 | 56.0  | 22.6-108  | WG786843 |
| Bis(2-chloroisopropyl)ether | mg/l  | .05                       | 0.0326 | 65.2  | 32.9-100  | WG786843 |
| Bis(2-ethylhexyl)phthalate  | mg/l  | .05                       | 0.0428 | 85.7  | 36.9-134  | WG786843 |
| Chrysene                    | mg/l  | .05                       | 0.0378 | 75.5  | 54.6-120  | WG786843 |
| Di-n-butyl phthalate        | mg/l  | .05                       | 0.0422 | 84.4  | 41.8-120  | WG786843 |
| Di-n-octyl phthalate        | mg/l  | .05                       | 0.0422 | 84.3  | 39.7-112  | WG786843 |
| Dibenz(a,h)anthracene       | mg/l  | .05                       | 0.0420 | 84.0  | 42.8-118  | WG786843 |
| Diethyl phthalate           | mg/l  | .05                       | 0.0432 | 86.4  | 36.5-129  | WG786843 |
| Dimethyl phthalate          | mg/l  | .05                       | 0.0427 | 85.4  | 35.3-128  | WG786843 |
| Fluoranthene                | mg/l  | .05                       | 0.0399 | 79.9  | 45.9-115  | WG786843 |
| Fluorene                    | mg/l  | .05                       | 0.0400 | 79.9  | 41-112    | WG786843 |
| Hexachloro-1,3-butadiene    | mg/l  | .05                       | 0.0302 | 60.5  | 16.1-104  | WG786843 |
| Hexachlorobenzene           | mg/l  | .05                       | 0.0424 | 84.9  | 38.5-116  | WG786843 |
| Hexachlorocyclopentadiene   | mg/l  | .05                       | 0.0243 | 48.5  | 10-121    | WG786843 |
| Hexachloroethane            | mg/l  | .05                       | 0.0246 | 49.2  | 16.5-89.8 | WG786843 |
| Indeno(1,2,3-cd)pyrene      | mg/l  | .05                       | 0.0426 | 85.1  | 45-116    | WG786843 |
| Isophorone                  | mg/l  | .05                       | 0.0381 | 76.2  | 35.4-112  | WG786843 |
| n-Nitrosodi-n-propylamine   | mg/l  | .05                       | 0.0342 | 68.4  | 33.2-106  | WG786843 |
| n-Nitrosodimethylamine      | mg/l  | .05                       | 0.0158 | 31.5  | 10-80.1   | WG786843 |
| n-Nitrosodiphenylamine      | mg/l  | .05                       | 0.0395 | 79.1  | 44.4-113  | WG786843 |
| Naphthalene                 | mg/l  | .05                       | 0.0296 | 59.2  | 32.2-101  | WG786843 |
| Nitrobenzene                | mg/l  | .05                       | 0.0332 | 66.5  | 31.4-106  | WG786843 |
| Pentachlorophenol           | mg/l  | .05                       | 0.0400 | 80.0  | 10-97.4   | WG786843 |
| Phenanthrene                | mg/l  | .05                       | 0.0369 | 73.7  | 46.4-113  | WG786843 |
| Phenol                      | mg/l  | .05                       | 0.0167 | 33.4  | 10-57.9   | WG786843 |
| Pyrene                      | mg/l  | .05                       | 0.0390 | 78.0  | 46.3-117  | WG786843 |
| 2,4,6-Tribromophenol        |       |                           |        | 96.40 | 11.2-130  | WG786843 |
| 2-Fluorobiphenyl            |       |                           |        | 75.40 | 29.5-131  | WG786843 |
| 2-Fluorophenol              |       |                           |        | 47.50 | 10-77.9   | WG786843 |
| Nitrobenzene-d5             |       |                           |        | 68.90 | 21.8-123  | WG786843 |
| Phenol-d5                   |       |                           |        | 33.70 | 5-70.1    | WG786843 |
| p-Terphenyl-d14             |       |                           |        | 69.30 | 29.3-137  | WG786843 |

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Quality Assurance Report  
Level II

L762730

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(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

May 13, 2015

| Analyte                         | Units    | Laboratory Control Sample |         | % Rec | Limit  | Batch    |
|---------------------------------|----------|---------------------------|---------|-------|--------|----------|
|                                 |          | Known Val                 | Result  |       |        |          |
| Mercury, Dissolved              | mg/l     | .003                      | 0.00298 | 99.0  | 85-115 | WG786936 |
| Specific Conductance            | umhos/cm | 534                       | 550.    | 103.  | 85-115 | WG787279 |
| Hardness, Total (mg/L as CaCO3) | mg/l     | 200                       | 204.    | 102.  | 85-115 | WG787461 |
| Dissolved Solids                | mg/l     | 8800                      | 8720    | 99.1  | 85-115 | WG787143 |
| Alkalinity                      | mg/l     | 100                       | 101.    | 101.  | 85-115 | WG788008 |
| Chloride                        | mg/l     | 40                        | 38.9    | 97.0  | 90-110 | WG788312 |
| Fluoride                        | mg/l     | 8                         | 7.94    | 99.0  | 90-110 | WG788618 |

| Analyte                   | Units | Laboratory Control Sample Duplicate |        |      | Limit      | RPD   | Limit | Batch    |
|---------------------------|-------|-------------------------------------|--------|------|------------|-------|-------|----------|
|                           |       | Result                              | Ref    | %Rec |            |       |       |          |
| Bromide                   | mg/l  | 40.1                                | 39.9   | 100. | 90-110     | 0.0   | 20    | WG786303 |
| Nitrate                   | mg/l  | 8.28                                | 8.24   | 103. | 90-110     | 0.0   | 20    | WG786303 |
| Nitrite                   | mg/l  | 8.17                                | 7.94   | 102. | 90-110     | 3.00  | 20    | WG786303 |
| Sulfate                   | mg/l  | 40.4                                | 40.1   | 101. | 90-110     | 1.00  | 20    | WG786303 |
| pH                        | su    | 7.77                                | 7.76   | 99.0 | 98.3-101.7 | 0.129 | 20    | WG786680 |
| Arsenic, Dissolved        | mg/l  | 1.07                                | 1.08   | 107. | 85-115     | 0.0   | 20    | WG786716 |
| Calcium, Dissolved        | mg/l  | 9.43                                | 9.49   | 94.0 | 85-115     | 1.00  | 20    | WG786716 |
| Chromium, Dissolved       | mg/l  | 0.985                               | 0.982  | 98.0 | 85-115     | 0.0   | 20    | WG786716 |
| Lead, Dissolved           | mg/l  | 0.975                               | 0.983  | 98.0 | 85-115     | 1.00  | 20    | WG786716 |
| Selenium, Dissolved       | mg/l  | 1.10                                | 1.11   | 110. | 85-115     | 0.0   | 20    | WG786716 |
| Silver, Dissolved         | mg/l  | 1.02                                | 1.02   | 102. | 85-115     | 0.0   | 20    | WG786716 |
| Barium, Dissolved         | mg/l  | 0.962                               | 0.965  | 96.0 | 85-115     | 0.0   | 20    | WG786716 |
| 1,1,1-Trichloroethane     | mg/l  | 0.0262                              | 0.0258 | 105. | 73.2-123   | 1.66  | 20    | WG786417 |
| 1,1,2,2-Tetrachloroethane | mg/l  | 0.0236                              | 0.0234 | 94.0 | 70.7-122   | 0.620 | 20    | WG786417 |
| 1,1,2-Trichloroethane     | mg/l  | 0.0238                              | 0.0246 | 95.0 | 77.7-118   | 2.98  | 20    | WG786417 |
| 1,1-Dichloroethane        | mg/l  | 0.0212                              | 0.0217 | 85.0 | 70.7-126   | 2.40  | 20    | WG786417 |
| 1,1-Dichloroethene        | mg/l  | 0.0224                              | 0.0216 | 90.0 | 67.8-129   | 3.81  | 20    | WG786417 |
| 1,2-Dichlorobenzene       | mg/l  | 0.0249                              | 0.0245 | 100. | 78.4-117   | 1.79  | 20    | WG786417 |
| 1,2-Dichloroethane        | mg/l  | 0.0249                              | 0.0266 | 100. | 68.8-124   | 6.42  | 20    | WG786417 |
| 1,2-Dichloropropane       | mg/l  | 0.0210                              | 0.0224 | 84.0 | 76.5-119   | 6.51  | 20    | WG786417 |
| 1,3-Dichlorobenzene       | mg/l  | 0.0267                              | 0.0250 | 107. | 70.8-128   | 6.72  | 20    | WG786417 |
| 1,4-Dichlorobenzene       | mg/l  | 0.0241                              | 0.0243 | 96.0 | 78.8-115   | 0.820 | 20    | WG786417 |
| 2-Chloroethyl vinyl ether | mg/l  | 0.0850                              | 0.118  | 68.0 | 43.8-150   | 32.4* | 20    | WG786417 |
| Benzene                   | mg/l  | 0.0199                              | 0.0204 | 80.0 | 74.8-121   | 2.22  | 20    | WG786417 |
| Bromodichloromethane      | mg/l  | 0.0245                              | 0.0266 | 98.0 | 75.1-116   | 8.20  | 20    | WG786417 |
| Bromoform                 | mg/l  | 0.0303                              | 0.0300 | 121. | 67.5-130   | 1.02  | 20    | WG786417 |
| Bromomethane              | mg/l  | 0.0218                              | 0.0207 | 87.0 | 49.9-162   | 5.16  | 20    | WG786417 |
| Carbon tetrachloride      | mg/l  | 0.0260                              | 0.0269 | 104. | 70.2-123   | 3.24  | 20    | WG786417 |
| Chlorobenzene             | mg/l  | 0.0256                              | 0.0240 | 102. | 78.1-119   | 6.43  | 20    | WG786417 |

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Tax I.D. 62-0814289

Est. 1970

May 13, 2015

| Analyte                     | Units | Laboratory Control Sample Duplicate |        |       | Limit     | RPD   | Limit | Batch    |
|-----------------------------|-------|-------------------------------------|--------|-------|-----------|-------|-------|----------|
|                             |       | Result                              | Ref    | %Rec  |           |       |       |          |
| Chlorodibromomethane        | mg/l  | 0.0275                              | 0.0285 | 110.  | 74-121    | 3.40  | 20    | WG786417 |
| Chloroethane                | mg/l  | 0.0197                              | 0.0186 | 79.0  | 61.7-135  | 5.74  | 20    | WG786417 |
| Chloroform                  | mg/l  | 0.0220                              | 0.0227 | 88.0  | 76-121    | 3.34  | 20    | WG786417 |
| Chloromethane               | mg/l  | 0.0188                              | 0.0187 | 75.0  | 61.5-129  | 0.580 | 20    | WG786417 |
| cis-1,3-Dichloropropene     | mg/l  | 0.0228                              | 0.0243 | 91.0  | 78.2-120  | 5.99  | 20    | WG786417 |
| Dichlorodifluoromethane     | mg/l  | 0.0241                              | 0.0236 | 96.0  | 54.8-135  | 2.34  | 20    | WG786417 |
| Ethylbenzene                | mg/l  | 0.0248                              | 0.0239 | 99.0  | 78.8-122  | 3.45  | 20    | WG786417 |
| Methyl tert-butyl ether     | mg/l  | 0.0197                              | 0.0208 | 79.0  | 71.2-126  | 5.32  | 20    | WG786417 |
| Methylene Chloride          | mg/l  | 0.0203                              | 0.0196 | 81.0  | 70.3-120  | 3.46  | 20    | WG786417 |
| Naphthalene                 | mg/l  | 0.0212                              | 0.0221 | 85.0  | 68.4-128  | 4.01  | 20    | WG786417 |
| Tetrachloroethene           | mg/l  | 0.0280                              | 0.0268 | 112.  | 72.6-126  | 4.33  | 20    | WG786417 |
| Toluene                     | mg/l  | 0.0213                              | 0.0220 | 85.0  | 79.7-116  | 3.46  | 20    | WG786417 |
| trans-1,2-Dichloroethene    | mg/l  | 0.0205                              | 0.0209 | 82.0  | 72.6-121  | 2.16  | 20    | WG786417 |
| trans-1,3-Dichloropropene   | mg/l  | 0.0221                              | 0.0232 | 88.0  | 74.3-123  | 4.78  | 20    | WG786417 |
| Trichloroethene             | mg/l  | 0.0231                              | 0.0241 | 92.0  | 77.7-118  | 4.14  | 20    | WG786417 |
| Trichlorofluoromethane      | mg/l  | 0.0240                              | 0.0240 | 96.0  | 63.5-135  | 0.290 | 20    | WG786417 |
| Vinyl chloride              | mg/l  | 0.0195                              | 0.0191 | 78.0  | 65.9-128  | 2.20  | 20    | WG786417 |
| Xylenes, Total              | mg/l  | 0.0736                              | 0.0711 | 98.0  | 78.7-121  | 3.40  | 20    | WG786417 |
| 4-Bromofluorobenzene        |       |                                     |        | 100.0 | 71-126    |       |       | WG786417 |
| Dibromofluoromethane        |       |                                     |        | 99.40 | 78.3-121  |       |       | WG786417 |
| Toluene-d8                  |       |                                     |        | 95.90 | 88.5-111  |       |       | WG786417 |
| a,a,a-Trifluorotoluene      |       |                                     |        | 107.0 | 85-114    |       |       | WG786417 |
|                             |       |                                     |        |       |           |       |       |          |
| 1,2,4-Trichlorobenzene      | mg/l  | 0.0280                              | 0.0288 | 56.0  | 22.9-96.1 | 2.84  | 27.5  | WG786843 |
| 2,4,6-Trichlorophenol       | mg/l  | 0.0395                              | 0.0417 | 79.0  | 29.8-107  | 5.25  | 24.1  | WG786843 |
| 2,4-Dichlorophenol          | mg/l  | 0.0359                              | 0.0383 | 72.0  | 31.4-103  | 6.48  | 24.9  | WG786843 |
| 2,4-Dimethylphenol          | mg/l  | 0.0362                              | 0.0388 | 72.0  | 31.9-107  | 7.15  | 25.7  | WG786843 |
| 2,4-Dinitrophenol           | mg/l  | 0.0308                              | 0.0352 | 62.0  | 24.2-128  | 13.4  | 20.5  | WG786843 |
| 2,4-Dinitrotoluene          | mg/l  | 0.0391                              | 0.0436 | 78.0  | 31.2-105  | 10.8  | 22    | WG786843 |
| 2,6-Dinitrotoluene          | mg/l  | 0.0386                              | 0.0427 | 77.0  | 30.6-106  | 10.1  | 23.1  | WG786843 |
| 2-Chloronaphthalene         | mg/l  | 0.0334                              | 0.0356 | 67.0  | 33.6-105  | 6.25  | 23    | WG786843 |
| 2-Chlorophenol              | mg/l  | 0.0315                              | 0.0325 | 63.0  | 26.2-91.5 | 3.33  | 26.5  | WG786843 |
| 2-Nitrophenol               | mg/l  | 0.0375                              | 0.0387 | 75.0  | 25.9-106  | 3.08  | 26.9  | WG786843 |
| 3,3-Dichlorobenzidine       | mg/l  | 0.0386                              | 0.0395 | 77.0  | 27.2-142  | 2.29  | 22.3  | WG786843 |
| 4,6-Dinitro-2-methylphenol  | mg/l  | 0.0412                              | 0.0430 | 82.0  | 18.4-148  | 4.43  | 24.4  | WG786843 |
| 4-Bromophenyl-phenylether   | mg/l  | 0.0382                              | 0.0411 | 76.0  | 40.7-116  | 7.19  | 21    | WG786843 |
| 4-Chloro-3-methylphenol     | mg/l  | 0.0366                              | 0.0403 | 73.0  | 35.7-100  | 9.61  | 22.9  | WG786843 |
| 4-Chlorophenyl-phenylether  | mg/l  | 0.0358                              | 0.0405 | 72.0  | 39-113    | 12.3  | 20.9  | WG786843 |
| 4-Nitrophenol               | mg/l  | 0.0202                              | 0.0215 | 40.0  | 10-52.7   | 5.97  | 40    | WG786843 |
| Acenaphthene                | mg/l  | 0.0332                              | 0.0373 | 66.0  | 38.7-109  | 11.6  | 21.5  | WG786843 |
| Acenaphthylene              | mg/l  | 0.0333                              | 0.0375 | 67.0  | 36-106    | 11.9  | 21    | WG786843 |
| Anthracene                  | mg/l  | 0.0373                              | 0.0397 | 74.0  | 43.6-113  | 6.43  | 18.8  | WG786843 |
| 1,2-Diphenylhydrazine       | mg/l  | 0.0346                              | 0.0387 | 69.0  | 37.6-111  | 11.2  | 21.1  | WG786843 |
| Benzidine                   | mg/l  | 0.0259                              | 0.0232 | 52.0  | 10-165.2  | 11.2  | 40    | WG786843 |
| Benzo(a)anthracene          | mg/l  | 0.0355                              | 0.0379 | 71.0  | 51.2-112  | 6.68  | 20    | WG786843 |
| Benzo(a)pyrene              | mg/l  | 0.0372                              | 0.0393 | 74.0  | 45.6-106  | 5.47  | 20    | WG786843 |
| Benzo(b)fluoranthene        | mg/l  | 0.0367                              | 0.0384 | 73.0  | 47.6-111  | 4.72  | 20    | WG786843 |
| Benzo(g,h,i)perylene        | mg/l  | 0.0385                              | 0.0423 | 77.0  | 45.2-117  | 9.32  | 20    | WG786843 |
| Benzo(k)fluoranthene        | mg/l  | 0.0356                              | 0.0395 | 71.0  | 49.4-114  | 10.3  | 20    | WG786843 |
| Benzylbutyl phthalate       | mg/l  | 0.0379                              | 0.0405 | 76.0  | 31.8-123  | 6.68  | 20.7  | WG786843 |
| Bis(2-chlorethoxy)methane   | mg/l  | 0.0309                              | 0.0331 | 62.0  | 37.2-111  | 6.84  | 24.1  | WG786843 |
| Bis(2-chloroethyl)ether     | mg/l  | 0.0259                              | 0.0280 | 52.0  | 22.6-108  | 7.72  | 27.9  | WG786843 |
| Bis(2-chloroisopropyl)ether | mg/l  | 0.0303                              | 0.0326 | 61.0  | 32.9-100  | 7.16  | 25.1  | WG786843 |
| Bis(2-ethylhexyl)phthalate  | mg/l  | 0.0387                              | 0.0428 | 77.0  | 36.9-134  | 10.2  | 23.6  | WG786843 |
| Chrysene                    | mg/l  | 0.0351                              | 0.0378 | 70.0  | 54.6-120  | 7.38  | 20    | WG786843 |
| Di-n-butyl phthalate        | mg/l  | 0.0397                              | 0.0422 | 79.0  | 41.8-120  | 6.09  | 20.2  | WG786843 |
| Di-n-octyl phthalate        | mg/l  | 0.0393                              | 0.0422 | 79.0  | 39.7-112  | 6.94  | 21.1  | WG786843 |
| Dibenz(a,h)anthracene       | mg/l  | 0.0388                              | 0.0420 | 78.0  | 42.8-118  | 7.80  | 20    | WG786843 |

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Est. 1970

May 13, 2015

| Analyte                         | Units  | Laboratory Control Sample Duplicate |         |       | Limit     | RPD   | Limit | Batch    |
|---------------------------------|--------|-------------------------------------|---------|-------|-----------|-------|-------|----------|
|                                 |        | Result                              | Ref     | %Rec  |           |       |       |          |
| Diethyl phthalate               | mg/l   | 0.0394                              | 0.0432  | 79.0  | 36.5-129  | 9.06  | 20    | WG786843 |
| Dimethyl phthalate              | mg/l   | 0.0397                              | 0.0427  | 79.0  | 35.3-128  | 7.32  | 20.8  | WG786843 |
| Fluoranthene                    | mg/l   | 0.0378                              | 0.0399  | 76.0  | 45.9-115  | 5.47  | 20    | WG786843 |
| Fluorene                        | mg/l   | 0.0354                              | 0.0400  | 71.0  | 41-112    | 12.2  | 20.2  | WG786843 |
| Hexachloro-1,3-butadiene        | mg/l   | 0.0286                              | 0.0302  | 57.0  | 16.1-104  | 5.49  | 31.2  | WG786843 |
| Hexachlorobenzene               | mg/l   | 0.0402                              | 0.0424  | 80.0  | 38.5-116  | 5.32  | 20.1  | WG786843 |
| Hexachlorocyclopentadiene       | mg/l   | 0.0225                              | 0.0243  | 45.0  | 10-121    | 7.59  | 27.9  | WG786843 |
| Hexachloroethane                | mg/l   | 0.0253                              | 0.0246  | 51.0  | 16.5-89.8 | 2.84  | 30.7  | WG786843 |
| Indeno(1,2,3-cd)pyrene          | mg/l   | 0.0388                              | 0.0426  | 78.0  | 45-116    | 9.26  | 20    | WG786843 |
| Isophorone                      | mg/l   | 0.0364                              | 0.0381  | 73.0  | 35.4-112  | 4.52  | 21.5  | WG786843 |
| n-Nitrosodi-n-propylamine       | mg/l   | 0.0315                              | 0.0342  | 63.0  | 33.2-106  | 8.13  | 23.7  | WG786843 |
| n-Nitrosodimethylamine          | mg/l   | 0.0155                              | 0.0158  | 31.0  | 10-80.1   | 1.37  | 37.5  | WG786843 |
| n-Nitrosodiphenylamine          | mg/l   | 0.0372                              | 0.0395  | 74.0  | 44.4-113  | 6.18  | 20    | WG786843 |
| Naphthalene                     | mg/l   | 0.0288                              | 0.0296  | 58.0  | 32.2-101  | 2.61  | 23.8  | WG786843 |
| Nitrobenzene                    | mg/l   | 0.0322                              | 0.0332  | 64.0  | 31.4-106  | 3.27  | 25.7  | WG786843 |
| Pentachlorophenol               | mg/l   | 0.0374                              | 0.0400  | 75.0  | 10-97.4   | 6.79  | 35.1  | WG786843 |
| Phenanthrene                    | mg/l   | 0.0348                              | 0.0369  | 70.0  | 46.4-113  | 5.77  | 20    | WG786843 |
| Phenol                          | mg/l   | 0.0163                              | 0.0167  | 32.0  | 10-57.9   | 2.71  | 35    | WG786843 |
| Pyrene                          | mg/l   | 0.0371                              | 0.0390  | 74.0  | 46.3-117  | 4.88  | 20    | WG786843 |
| 2,4,6-Tribromophenol            |        |                                     |         | 89.90 | 11.2-130  |       |       | WG786843 |
| 2-Fluorobiphenyl                |        |                                     |         | 66.10 | 29.5-131  |       |       | WG786843 |
| 2-Fluorophenol                  |        |                                     |         | 45.00 | 10-77.9   |       |       | WG786843 |
| Nitrobenzene-d5                 |        |                                     |         | 63.70 | 21.8-123  |       |       | WG786843 |
| Phenol-d5                       |        |                                     |         | 31.20 | 5-70.1    |       |       | WG786843 |
| p-Terphenyl-d14                 |        |                                     |         | 60.60 | 29.3-137  |       |       | WG786843 |
| Mercury,Dissolved               | mg/l   | 0.00324                             | 0.00298 | 108.  | 85-115    | 8.00  | 20    | WG786936 |
| Specific Conductance            | umhos/ | 546.                                | 550.    | 102.  | 85-115    | 0.730 | 20    | WG787279 |
| Hardness, Total (mg/L as CaCO3) | mg/l   | 204.                                | 204.    | 102.  | 85-115    | 0.0   | 20    | WG787461 |
| Dissolved Solids                | mg/l   | 8740                                | 8720    | 99.0  | 85-115    | 0.229 | 5     | WG787143 |
| Alkalinity                      | mg/l   | 101.                                | 101.    | 101.  | 85-115    | 0.0   | 20    | WG788008 |
| Chloride                        | mg/l   | 39.6                                | 38.9    | 99.0  | 90-110    | 2.00  | 20    | WG788312 |
| Fluoride                        | mg/l   | 7.94                                | 7.94    | 99.0  | 90-110    | 0.0   | 20    | WG788618 |

| Analyte            | Units | Matrix Spike |           |    | % Rec | Limit  | Ref Samp   | Batch    |
|--------------------|-------|--------------|-----------|----|-------|--------|------------|----------|
|                    |       | MS Res       | Ref Res   | TV |       |        |            |          |
| Bromide            | mg/l  | 46.9         | 0.0       | 50 | 94.0  | 80-120 | L762688-03 | WG786303 |
| Nitrate            | mg/l  | 5.43         | 0.522     | 5  | 98.0  | 80-120 | L762688-03 | WG786303 |
| Nitrite            | mg/l  | 4.73         | 0.0       | 5  | 95.0  | 80-120 | L762688-03 | WG786303 |
| Sulfate            | mg/l  | 64.7         | 15.5      | 50 | 98.0  | 80-120 | L762688-03 | WG786303 |
| Arsenic,Dissolved  | mg/l  | 1.08         | -0.000914 | 1  | 110.  | 75-125 | L762345-01 | WG786716 |
| Calcium,Dissolved  | mg/l  | 38.2         | 29.7      | 10 | 85.0  | 75-125 | L762345-01 | WG786716 |
| Chromium,Dissolved | mg/l  | 0.959        | 0.000543  | 1  | 96.0  | 75-125 | L762345-01 | WG786716 |

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Tax I.D. 62-0814289

Est. 1970

May 13, 2015

| Analyte                         | Units | MS Res   | Matrix Spike |      | % Rec | Limit    | Ref Samp   | Batch    |
|---------------------------------|-------|----------|--------------|------|-------|----------|------------|----------|
|                                 |       |          | Ref Res      | TV   |       |          |            |          |
| Lead, Dissolved                 | mg/l  | 0.979    | 0.00203      | 1    | 98.0  | 75-125   | L762345-01 | WG786716 |
| Selenium, Dissolved             | mg/l  | 1.13     | -0.000351    | 1    | 110.  | 75-125   | L762345-01 | WG786716 |
| Silver, Dissolved               | mg/l  | 1.02     | 0.000964     | 1    | 100.  | 75-125   | L762345-01 | WG786716 |
| Arsenic, Dissolved              | mg/l  | 1.09     | -0.00307     | 1    | 110.  | 75-125   | L762345-02 | WG786716 |
| Barium, Dissolved               | mg/l  | 1.09     | 0.0122       | 1    | 110.  | 75-125   | L762345-02 | WG786716 |
| Calcium, Dissolved              | mg/l  | 50.3     | 41.7         | 10   | 86.0  | 75-125   | L762345-02 | WG786716 |
| Chromium, Dissolved             | mg/l  | 0.969    | 0.000648     | 1    | 97.0  | 75-125   | L762345-02 | WG786716 |
| Lead, Dissolved                 | mg/l  | 0.971    | 0.00125      | 1    | 97.0  | 75-125   | L762345-02 | WG786716 |
| Selenium, Dissolved             | mg/l  | 1.14     | 0.00177      | 1    | 110.  | 75-125   | L762345-02 | WG786716 |
| Silver, Dissolved               | mg/l  | 1.03     | 0.000788     | 1    | 100.  | 75-125   | L762345-02 | WG786716 |
| Barium, Dissolved               | mg/l  | 0.961    | 0.00909      | 1    | 95.0  | 75-125   | L762345-01 | WG786716 |
| 1,1,1-Trichloroethane           | mg/l  | 0.0238   | 0.0          | .025 | 95.0  | 58.7-134 | L762837-01 | WG786417 |
| 1,1,2,2-Tetrachloroethane       | mg/l  | 0.0231   | 0.0          | .025 | 92.0  | 56-132   | L762837-01 | WG786417 |
| 1,1,2-Trichloroethane           | mg/l  | 0.0233   | 0.0          | .025 | 93.0  | 66.3-125 | L762837-01 | WG786417 |
| 1,1-Dichloroethane              | mg/l  | 0.0198   | 0.0          | .025 | 79.0  | 58.5-132 | L762837-01 | WG786417 |
| 1,1-Dichloroethene              | mg/l  | 0.0187   | 0.0          | .025 | 75.0  | 51.1-140 | L762837-01 | WG786417 |
| 1,2-Dichlorobenzene             | mg/l  | 0.0237   | 0.0          | .025 | 95.0  | 68.2-123 | L762837-01 | WG786417 |
| 1,2-Dichloroethane              | mg/l  | 0.0244   | 0.0          | .025 | 98.0  | 60-126   | L762837-01 | WG786417 |
| 1,2-Dichloropropane             | mg/l  | 0.0197   | 0.0          | .025 | 79.0  | 64.2-123 | L762837-01 | WG786417 |
| 1,3-Dichlorobenzene             | mg/l  | 0.0250   | 0.0          | .025 | 100.  | 63.1-131 | L762837-01 | WG786417 |
| 1,4-Dichlorobenzene             | mg/l  | 0.0220   | 0.0          | .025 | 88.0  | 68.6-123 | L762837-01 | WG786417 |
| 2-Chloroethyl vinyl ether       | mg/l  | 0.0955   | 0.0          | .125 | 76.0  | 10-155   | L762837-01 | WG786417 |
| Benzene                         | mg/l  | 0.0181   | 0.0          | .025 | 72.0  | 54.3-133 | L762837-01 | WG786417 |
| Bromodichloromethane            | mg/l  | 0.0243   | 0.0          | .025 | 97.0  | 63.9-121 | L762837-01 | WG786417 |
| Bromoform                       | mg/l  | 0.0286   | 0.0          | .025 | 110.  | 59.5-134 | L762837-01 | WG786417 |
| Bromomethane                    | mg/l  | 0.0168   | 0.0          | .025 | 67.0  | 41.7-155 | L762837-01 | WG786417 |
| Carbon tetrachloride            | mg/l  | 0.0233   | 0.0          | .025 | 93.0  | 55.7-134 | L762837-01 | WG786417 |
| Chlorobenzene                   | mg/l  | 0.0231   | 0.0          | .025 | 92.0  | 67-125   | L762837-01 | WG786417 |
| Chlorodibromomethane            | mg/l  | 0.0266   | 0.0          | .025 | 110.  | 64.3-125 | L762837-01 | WG786417 |
| Chloroethane                    | mg/l  | 0.0151   | 0.0          | .025 | 60.0  | 51.5-136 | L762837-01 | WG786417 |
| Chloroform                      | mg/l  | 0.0211   | 0.0          | .025 | 85.0  | 63-129   | L762837-01 | WG786417 |
| Chloromethane                   | mg/l  | 0.0134   | 0.0          | .025 | 54.0  | 42.4-135 | L762837-01 | WG786417 |
| cis-1,3-Dichloropropene         | mg/l  | 0.0219   | 0.0          | .025 | 88.0  | 66.4-125 | L762837-01 | WG786417 |
| Dichlorodifluoromethane         | mg/l  | 0.0197   | 0.0          | .025 | 79.0  | 40.6-144 | L762837-01 | WG786417 |
| Ethylbenzene                    | mg/l  | 0.0228   | 0.0          | .025 | 91.0  | 61.4-133 | L762837-01 | WG786417 |
| Methyl tert-butyl ether         | mg/l  | 0.0190   | 0.0          | .025 | 76.0  | 57.7-134 | L762837-01 | WG786417 |
| Methylene Chloride              | mg/l  | 0.0183   | 0.0          | .025 | 73.0  | 58.1-122 | L762837-01 | WG786417 |
| Naphthalene                     | mg/l  | 0.0202   | 0.0          | .025 | 81.0  | 58-135   | L762837-01 | WG786417 |
| Tetrachloroethene               | mg/l  | 0.0253   | 0.0          | .025 | 100.  | 53-139   | L762837-01 | WG786417 |
| Toluene                         | mg/l  | 0.0197   | 0.0          | .025 | 79.0  | 61.4-130 | L762837-01 | WG786417 |
| trans-1,2-Dichloroethene        | mg/l  | 0.0187   | 0.00104      | .025 | 70.0  | 56.5-129 | L762837-01 | WG786417 |
| trans-1,3-Dichloropropene       | mg/l  | 0.0215   | 0.0          | .025 | 86.0  | 64.1-128 | L762837-01 | WG786417 |
| Trichloroethene                 | mg/l  | 0.0220   | 0.000443     | .025 | 86.0  | 44.1-149 | L762837-01 | WG786417 |
| Trichlorofluoromethane          | mg/l  | 0.0203   | 0.0          | .025 | 81.0  | 49.6-145 | L762837-01 | WG786417 |
| Vinyl chloride                  | mg/l  | 0.0154   | 0.000467     | .025 | 60.0  | 47.8-137 | L762837-01 | WG786417 |
| Xylenes, Total                  | mg/l  | 0.0674   | 0.0          | .075 | 90.0  | 63.3-131 | L762837-01 | WG786417 |
| 4-Bromofluorobenzene            |       |          |              |      | 101.0 | 71-126   |            | WG786417 |
| Dibromofluoromethane            |       |          |              |      | 100.0 | 78.3-121 |            | WG786417 |
| Toluene-d8                      |       |          |              |      | 98.20 | 88.5-111 |            | WG786417 |
| a,a,a-Trifluorotoluene          |       |          |              |      | 106.0 | 85-114   |            | WG786417 |
| Mercury, Dissolved              | mg/l  | 0.000111 | -0.000005    | .003 | 4.00* | 70-130   | L762730-01 | WG786936 |
| Hardness, Total (mg/L as CaCO3) | mg/l  | 205.     | 60.4         | 150  | 96.0  | 80-120   | L762982-06 | WG787461 |

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Tax I.D. 62-0814289

Est. 1970

May 13, 2015

| Analyte                   | Units | MS Res | Matrix Spike           |      | % Rec    | Limit  | Ref Samp   | Batch      |          |
|---------------------------|-------|--------|------------------------|------|----------|--------|------------|------------|----------|
|                           |       |        | Ref Res                | TV   |          |        |            |            |          |
| Alkalinity                | mg/l  | 381.   | 320.                   | 100  | 61.0*    | 80-120 | L763788-01 | WG788008   |          |
| Chloride                  | mg/l  | 70.4   | 21.2                   | 50   | 98.0     | 80-120 | L764346-03 | WG788312   |          |
| Analyte                   | Units | MSD    | Matrix Spike Duplicate |      | Limit    | RPD    | Limit      | Ref Samp   | Batch    |
|                           |       |        | Ref                    | %Rec |          |        |            |            |          |
| Bromide                   | mg/l  | 48.3   | 46.9                   | 96.7 | 80-120   | 3.00   | 20         | L762688-03 | WG786303 |
| Nitrate                   | mg/l  | 5.55   | 5.43                   | 100. | 80-120   | 2.00   | 20         | L762688-03 | WG786303 |
| Nitrite                   | mg/l  | 4.87   | 4.73                   | 97.3 | 80-120   | 3.00   | 20         | L762688-03 | WG786303 |
| Sulfate                   | mg/l  | 65.9   | 64.7                   | 101. | 80-120   | 2.00   | 20         | L762688-03 | WG786303 |
| Arsenic,Dissolved         | mg/l  | 1.09   | 1.08                   | 109. | 75-125   | 1.00   | 20         | L762345-01 | WG786716 |
| Calcium,Dissolved         | mg/l  | 38.2   | 38.2                   | 85.2 | 75-125   | 0.0    | 20         | L762345-01 | WG786716 |
| Chromium,Dissolved        | mg/l  | 0.964  | 0.959                  | 96.3 | 75-125   | 0.0    | 20         | L762345-01 | WG786716 |
| Lead,Dissolved            | mg/l  | 0.983  | 0.979                  | 98.1 | 75-125   | 0.0    | 20         | L762345-01 | WG786716 |
| Selenium,Dissolved        | mg/l  | 1.12   | 1.13                   | 112. | 75-125   | 0.0    | 20         | L762345-01 | WG786716 |
| Silver,Dissolved          | mg/l  | 1.03   | 1.02                   | 102. | 75-125   | 0.0    | 20         | L762345-01 | WG786716 |
| Arsenic,Dissolved         | mg/l  | 1.09   | 1.09                   | 109. | 75-125   | 0.0    | 20         | L762345-02 | WG786716 |
| Barium,Dissolved          | mg/l  | 1.09   | 1.09                   | 107. | 75-125   | 0.0    | 20         | L762345-02 | WG786716 |
| Calcium,Dissolved         | mg/l  | 50.1   | 50.3                   | 83.6 | 75-125   | 1.00   | 20         | L762345-02 | WG786716 |
| Chromium,Dissolved        | mg/l  | 0.967  | 0.969                  | 96.6 | 75-125   | 0.0    | 20         | L762345-02 | WG786716 |
| Lead,Dissolved            | mg/l  | 0.971  | 0.971                  | 97.0 | 75-125   | 0.0    | 20         | L762345-02 | WG786716 |
| Selenium,Dissolved        | mg/l  | 1.13   | 1.14                   | 113. | 75-125   | 1.00   | 20         | L762345-02 | WG786716 |
| Silver,Dissolved          | mg/l  | 1.04   | 1.03                   | 104. | 75-125   | 0.0    | 20         | L762345-02 | WG786716 |
| Barium,Dissolved          | mg/l  | 0.959  | 0.961                  | 95.0 | 75-125   | 0.0    | 20         | L762345-01 | WG786716 |
| 1,1,1-Trichloroethane     | mg/l  | 0.0247 | 0.0238                 | 98.8 | 58.7-134 | 3.79   | 20         | L762837-01 | WG786417 |
| 1,1,2,2-Tetrachloroethane | mg/l  | 0.0255 | 0.0231                 | 102. | 56-132   | 9.91   | 22.2       | L762837-01 | WG786417 |
| 1,1,2-Trichloroethane     | mg/l  | 0.0241 | 0.0233                 | 96.6 | 66.3-125 | 3.67   | 20         | L762837-01 | WG786417 |
| 1,1-Dichloroethane        | mg/l  | 0.0201 | 0.0198                 | 80.3 | 58.5-132 | 1.40   | 20         | L762837-01 | WG786417 |
| 1,1-Dichloroethene        | mg/l  | 0.0196 | 0.0187                 | 78.5 | 51.1-140 | 4.67   | 20.2       | L762837-01 | WG786417 |
| 1,2-Dichlorobenzene       | mg/l  | 0.0243 | 0.0237                 | 97.4 | 68.2-123 | 2.73   | 20         | L762837-01 | WG786417 |
| 1,2-Dichloroethane        | mg/l  | 0.0251 | 0.0244                 | 100. | 60-126   | 2.67   | 20         | L762837-01 | WG786417 |
| 1,2-Dichloropropane       | mg/l  | 0.0206 | 0.0197                 | 82.6 | 64.2-123 | 4.67   | 20         | L762837-01 | WG786417 |
| 1,3-Dichlorobenzene       | mg/l  | 0.0261 | 0.0250                 | 104. | 63.1-131 | 4.32   | 20         | L762837-01 | WG786417 |
| 1,4-Dichlorobenzene       | mg/l  | 0.0231 | 0.0220                 | 92.4 | 68.6-123 | 4.71   | 20         | L762837-01 | WG786417 |
| 2-Chloroethyl vinyl ether | mg/l  | 0.106  | 0.0955                 | 85.0 | 10-155   | 10.6   | 20         | L762837-01 | WG786417 |
| Benzene                   | mg/l  | 0.0186 | 0.0181                 | 74.6 | 54.3-133 | 2.76   | 20         | L762837-01 | WG786417 |
| Bromodichloromethane      | mg/l  | 0.0252 | 0.0243                 | 101. | 63.9-121 | 3.56   | 20         | L762837-01 | WG786417 |
| Bromoform                 | mg/l  | 0.0296 | 0.0286                 | 118. | 59.5-134 | 3.37   | 20.5       | L762837-01 | WG786417 |
| Bromomethane              | mg/l  | 0.0172 | 0.0168                 | 68.8 | 41.7-155 | 2.69   | 21.9       | L762837-01 | WG786417 |
| Carbon tetrachloride      | mg/l  | 0.0249 | 0.0233                 | 99.6 | 55.7-134 | 6.60   | 20         | L762837-01 | WG786417 |
| Chlorobenzene             | mg/l  | 0.0237 | 0.0231                 | 94.8 | 67-125   | 2.70   | 20         | L762837-01 | WG786417 |
| Chlorodibromomethane      | mg/l  | 0.0281 | 0.0266                 | 112. | 64.3-125 | 5.47   | 20.8       | L762837-01 | WG786417 |
| Chloroethane              | mg/l  | 0.0166 | 0.0151                 | 66.3 | 51.5-136 | 9.45   | 40         | L762837-01 | WG786417 |
| Chloroform                | mg/l  | 0.0217 | 0.0211                 | 86.7 | 63-129   | 2.50   | 20         | L762837-01 | WG786417 |
| Chloromethane             | mg/l  | 0.0145 | 0.0134                 | 58.0 | 42.4-135 | 7.69   | 20         | L762837-01 | WG786417 |
| cis-1,3-Dichloropropene   | mg/l  | 0.0231 | 0.0219                 | 92.3 | 66.4-125 | 5.30   | 20         | L762837-01 | WG786417 |
| Dichlorodifluoromethane   | mg/l  | 0.0201 | 0.0197                 | 80.6 | 40.6-144 | 2.12   | 20.2       | L762837-01 | WG786417 |
| Ethylbenzene              | mg/l  | 0.0237 | 0.0228                 | 94.9 | 61.4-133 | 4.16   | 20         | L762837-01 | WG786417 |
| Methyl tert-butyl ether   | mg/l  | 0.0207 | 0.0190                 | 82.9 | 57.7-134 | 8.76   | 20         | L762837-01 | WG786417 |
| Methylene Chloride        | mg/l  | 0.0190 | 0.0183                 | 75.8 | 58.1-122 | 3.36   | 20         | L762837-01 | WG786417 |
| Napthalene                | mg/l  | 0.0221 | 0.0202                 | 88.4 | 58-135   | 9.22   | 25.5       | L762837-01 | WG786417 |
| Tetrachloroethene         | mg/l  | 0.0262 | 0.0253                 | 105. | 53-139   | 3.25   | 20         | L762837-01 | WG786417 |

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| Analyte                         | Units | MSD      | Matrix Spike Duplicate |       | Limit    | RPD   | Limit | Ref        | Samp     | Batch |
|---------------------------------|-------|----------|------------------------|-------|----------|-------|-------|------------|----------|-------|
|                                 |       |          | Ref                    | %Rec  |          |       |       |            |          |       |
| Toluene                         | mg/l  | 0.0209   | 0.0197                 | 83.7  | 61.4-130 | 5.90  | 20    | L762837-01 | WG786417 |       |
| trans-1,2-Dichloroethene        | mg/l  | 0.0192   | 0.0187                 | 72.5  | 56.5-129 | 2.59  | 20    | L762837-01 | WG786417 |       |
| trans-1,3-Dichloropropene       | mg/l  | 0.0238   | 0.0215                 | 95.2  | 64.1-128 | 10.0  | 20    | L762837-01 | WG786417 |       |
| Trichloroethene                 | mg/l  | 0.0227   | 0.0220                 | 89.0  | 44.1-149 | 3.28  | 20    | L762837-01 | WG786417 |       |
| Trichlorofluoromethane          | mg/l  | 0.0214   | 0.0203                 | 85.6  | 49.6-145 | 5.56  | 21.2  | L762837-01 | WG786417 |       |
| Vinyl chloride                  | mg/l  | 0.0165   | 0.0154                 | 64.3  | 47.8-137 | 6.97  | 20    | L762837-01 | WG786417 |       |
| Xylenes, Total                  | mg/l  | 0.0700   | 0.0674                 | 93.3  | 63.3-131 | 3.67  | 20    | L762837-01 | WG786417 |       |
| 4-Bromofluorobenzene            |       |          |                        | 103.0 | 71-126   |       |       |            | WG786417 |       |
| Dibromofluoromethane            |       |          |                        | 97.00 | 78.3-121 |       |       |            | WG786417 |       |
| Toluene-d8                      |       |          |                        | 99.20 | 88.5-111 |       |       |            | WG786417 |       |
| a,a,a-Trifluorotoluene          |       |          |                        | 106.0 | 85-114   |       |       |            | WG786417 |       |
| Mercury,Dissolved               | mg/l  | 0.000114 | 0.000111               | 4.01* | 70-130   | 0.0   | 20    | L762730-01 | WG786936 |       |
| Hardness, Total (mg/L as CaCO3) | mg/l  | 206.     | 205.                   | 97.1  | 80-120   | 0.487 | 20    | L762982-06 | WG787461 |       |
| Alkalinity                      | mg/l  | 384.     | 381.                   | 64.0* | 80-120   | 0.784 | 20    | L763788-01 | WG788008 |       |
| Chloride                        | mg/l  | 68.9     | 70.4                   | 95.5  | 80-120   | 2.00  | 20    | L764346-03 | WG788312 |       |

Post Spike

Serial Dilution

Batch number /Run number / Sample number cross reference

WG786303: R3034734: L762730-01

WG786680: R3035141: L762730-01

\* 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  
Ms. Karolina Blaney  
1058 County Road 215

Parachute, CO 81635

Quality Assurance Report  
Level II

L762730

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

Tax I.D. 62-0814289

Est. 1970

May 13, 2015

WG786716: R3035165 R3035168: L762730-01  
WG786417: R3035284: L762730-01  
WG786843: R3035292 R3035826: L762730-01  
WG786936: R3035413: L762730-01  
WG787279: R3035658: L762730-01  
WG787461: R3035862: L762730-01  
WG787143: R3035951: L762730-01  
WG788008: R3036115: L762730-01  
WG788312: R3036507: L762730-01  
WG788618: R3036759: L762730-01

\* \* 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.'



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May 13, 2015

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

## Report Summary

Friday May 22, 2015

Report Number: L762733

Samples Received: 05/02/15

Client Project: KP 44-20-691

Description: KP 44-20-691

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, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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Est. 1970

# REPORT OF ANALYSIS

May 22, 2015

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

Date Received : May 02, 2015  
Description : KP 44-20-691

Sample ID : KP 44-20-691

Collected By :  
Collection Date : 05/01/15 10:35

ESC Sample # : L762733-01

Site ID : KP 44-20-691

Project : KP 44-20-691

| Parameter   | Result       | Det. Limit | Units | Limit | Method  | Date/Time     | By  | Dil |
|-------------|--------------|------------|-------|-------|---------|---------------|-----|-----|
| Gross Alpha | ATTACH TO CO |            | pCi/l | 15.   | 7110 B- | 05/19/15 0000 | ARF | 1   |
| Gross Beta  | ATTACH TO CO |            | pCi/l |       | 900.0   | 05/19/15 0000 | ARF | 1   |

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Limit - Maximum Contaminant Level as established by the US EPA

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 05/22/15 15:47 Printed: 05/22/15 15:47

L762733-01 (GROSS ALPHA) - subcontracted to GEL Labs

L762733-01 (GROSS BETA) - subcontracted to GEL Labs



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

Quality Assurance Report  
Level II  
  
L762733

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Est. 1970

May 22, 2015

---

Batch number /Run number / Sample number cross reference

WG786578: R3038810: L762733-01

\* \* 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  
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May 22, 2015

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- 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)
- o Br,Cl,F,Nitrate/Nitrite, Sulfate
- GENERAL WATER QUALITY PARAMETERS
- o SPECIFIC CONDUCTANCE EPA METHOD 300.0 (IC)
- o HARDNESS EPA METHOD 130.1
- o TOTAL DISSOLVED SOLIDS EPA METHOD 160.1
- o pH EPA METHOD 150.2
- o ALKALINITY EPA METHOD 310.1
- GROSS ALPHA AND BETA RADIOACTIVITY EPA METHOD 900.1



May 22, 2015

Ms. Janice Cozby  
Environmental Science Corporation  
12065 Lebanon Road  
Mount Juliet, Tennessee 37122

Re: Radiochemistry Analysis  
Work Order: 372341

Dear Ms. Cozby:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on May 05, 2015. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson  
Project Manager

Purchase Order: S21879  
Chain of Custody: WG786578  
Enclosures



## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

### Certificate of Analysis Report for

ENVL001 Environmental Science Corporation

Client SDG: 372341 GEL Work Order: 372341

**The Qualifiers in this report are defined as follows:**

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a Tracer compound
- \*\* Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by



# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: May 22, 2015

Company : Environmental Science Corporation  
Address : 12065 Lebanon Road

Mount Juliet, Tennessee 37122

Contact: Ms. Janice Cozby  
Project: Radiochemistry Analysis

Client Sample ID: L762733-01  
Sample ID: 372341001  
Matrix: Drinking Water (Potable)  
Collect Date: 01-MAY-15 10:35  
Receive Date: 05-MAY-15  
Collector: Client

Project: ENVL00307  
Client ID: ENVL001

| Parameter  | Qualifier | Result | Uncertainty | MDC  | RL   | Units | DF | Analyst | Date     | Time | Batch   | Method |
|--|-----------|--------|-------------|------|------|-------|----|---------|----------|------|---------|--------|
| Rad Gas Flow Proportional Counting                         |           |        |             |      |      |       |    |         |          |      |         |        |
| Gross Alpha/Beta in Drinking Water EPA 900.0 "As Received" |           |        |             |      |      |       |    |         |          |      |         |        |
| Alpha  | U         | 2.76   | +/-64.3     | 117  | 3.00 | pCi/L |    | KXB2    | 05/19/15 | 0748 | 1477782 | 1      |
| Beta   | U         | 33.0   | +/-35.8     | 59.8 | 4.00 | pCi/L |    |         |          |      |         |        |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|--------|-------------|------------------|
| 1      | EPA 900.0   |                  |

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Report Date: May 22, 2015

Page 1 of 2

Environmental Science Corporation  
12065 Lebanon Road  
Mount Juliet, Tennessee

Contact: Ms. Janice Cozby

Workorder: 372341

| Parmname            | NOM         | Sample | Qual     | QC       | Units | RPD% | REC% | Range      | Anlst | Date     | Time  |
|---------------------|-------------|--------|----------|----------|-------|------|------|------------|-------|----------|-------|
| <b>Rad Gas Flow</b> |             |        |          |          |       |      |      |            |       |          |       |
| Batch               | 1477782     |        |          |          |       |      |      |            |       |          |       |
| QC1203316062        | LCS         |        |          |          |       |      |      |            |       |          |       |
| Alpha               | 81.1        |        |          | 94.6     | pCi/L |      | 117  | (80%-120%) | KXB2  | 05/18/15 | 18:09 |
|                     | Uncertainty |        |          | +/-8.66  |       |      |      |            |       |          |       |
| Beta                | 314         |        |          | 360      | pCi/L |      | 115  | (80%-120%) |       |          |       |
|                     | Uncertainty |        |          | +/-12.9  |       |      |      |            |       |          |       |
| QC1203316061        | MB          |        |          |          |       |      |      |            |       |          |       |
| Alpha               |             |        | U        | -0.401   | pCi/L |      |      |            |       | 05/19/15 | 07:48 |
|                     | Uncertainty |        |          | +/-0.927 |       |      |      |            |       |          |       |
| Beta                |             |        | U        | -0.696   | pCi/L |      |      |            |       |          |       |
|                     | Uncertainty |        |          | +/-1.35  |       |      |      |            |       |          |       |
| QC1203316065        | 372129008   | MS     |          |          |       |      |      |            |       |          |       |
| Alpha               | 486         | U      | -0.748   | 586      | pCi/L |      | 120  | (70%-130%) |       | 05/18/15 | 18:08 |
|                     | Uncertainty |        | +/-1.40  | +/-59.3  |       |      |      |            |       |          |       |
| Beta                | 1890        |        | 3.41     | 2020     | pCi/L |      | 107  | (70%-130%) |       |          |       |
|                     | Uncertainty |        | +/-0.941 | +/-74.2  |       |      |      |            |       |          |       |
| QC1203316066        | 372129008   | MSD    |          |          |       |      |      |            |       |          |       |
| Alpha               | 486         | U      | -0.748   | 623      | pCi/L | 6.26 | 128  | (0%-20%)   |       | 05/18/15 | 18:09 |
|                     | Uncertainty |        | +/-1.40  | +/-60.0  |       |      |      |            |       |          |       |
| Beta                | 1890        |        | 3.41     | 2180     | pCi/L | 8.06 | 116  | (0%-20%)   |       |          |       |
|                     | Uncertainty |        | +/-0.941 | +/-78.4  |       |      |      |            |       |          |       |

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

- \*\* Analyte is a Tracer compound
- < Result is less than value reported
- > Result is greater than value reported
- BD Results are either below the MDC or tracer recovery is low
- FA Failed analysis.
- H Analytical holding time was exceeded
- J Value is estimated
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M REMP Result > MDC/CL and < RDL
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Workorder: 372341

Page 2 of 2

| Parmname | NOM  | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|----------|--|--------|------|----|-------|------|------|-------|-------|------|------|
| NJ       | Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier                                     |        |      |    |       |      |      |       |       |      |      |
| Q        | One or more quality control criteria have not been met. Refer to the applicable narrative or DER.                              |        |      |    |       |      |      |       |       |      |      |
| R        | Sample results are rejected  |        |      |    |       |      |      |       |       |      |      |
| U        | Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.   |        |      |    |       |      |      |       |       |      |      |
| UI       | Gamma Spectroscopy--Uncertain identification   |        |      |    |       |      |      |       |       |      |      |
| UJ       | Gamma Spectroscopy--Uncertain identification   |        |      |    |       |      |      |       |       |      |      |
| UL       | Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.       |        |      |    |       |      |      |       |       |      |      |
| X        | Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier                                     |        |      |    |       |      |      |       |       |      |      |
| Y        | Other specific qualifiers were required to properly define the results. Consult case narrative.                                |        |      |    |       |      |      |       |       |      |      |
| ^        | RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry. |        |      |    |       |      |      |       |       |      |      |
| h        | Preparation or preservation holding time was exceeded  |        |      |    |       |      |      |       |       |      |      |

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

# **Chain of Custody and Supporting Documentation**

372341



**Sub-Contract Chain of Custody**

**Environmental Science Corp.**  
 12065 Lebanon Road  
 Mt. Juliet, TN 37122  
 (615) 773-9756 (615) 758-5859 fa

Sub-Contract Lab : GELCity / State : Charleston, SCResults Needed by : 06/01/2015ESC Purchase Order # : S21879Send Reports To : Janice Cozby jcozby@esclabsciences.com**WORKGROUP WG786578**

Date Created : 05/04/2015

| <b>SAMPLENO</b><br>Container #            | <b>MATRIX</b> | <b>Date / Time</b><br>Collected | <b>PARAMETER</b>   | <b>Code</b> | <b>METHOD</b> | <b>Comments</b> |
|---|---------------|---------------------------------|--------------------|-------------|---------------|-----------------|
| <b>L762733-01</b><br>18474855<br>18474854 | <b>DW</b>     | 05/01/2015 1035                 | <b>Gross Alpha</b> | GA          | 900.0         | CO Client       |
| <b>L762733-01</b><br>18474855<br>18474854 | <b>DW</b>     | 05/01/2015 1035                 | <b>Gross Beta</b>  | GB          | 900.0         | CO Client       |

Relinquished by  Date: \_\_\_\_\_  
 Received by :  Date: 06/01/15 0850  
 Relinquished by \_\_\_\_\_ Date: \_\_\_\_\_  
 Received by : \_\_\_\_\_ Date: \_\_\_\_\_

Page : 1







## SAMPLE RECEIPT &amp; REVIEW FORM

|  |   |  |  |
|--|---|--|--|
| Client: <u>ENVL</u>  |   | SDG/AR/COC/Work Order: <u>372341</u>   |  |
| Received By: <u>H. Taylor</u>  |   | Date Received: <u>050515</u>   |  |
| Suspected Hazard Information   | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation. |  |
| COC/Samples marked as radioactive?                                       | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Maximum Net Counts Observed* (Observed Counts - Area Background Counts):   |  |
| Classified Radioactive II or III by RSO?                                 | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | If yes, Were swipes taken of sample containers < action levels? <u>exp</u>   |  |
| COC/Samples marked containing PCBs?                                      | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |  |  |
| Package, COC, and/or Samples marked as beryllium or asbestos containing? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.                     |  |
| Shipped as a DOT Hazardous?  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Hazard Class Shipped: UN#:   |  |
| Samples identified as Foreign Soil?                                      | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |  |  |

| Sample Receipt Criteria   | Yes                                 | NA                       | No                       | Comments/Qualifiers (Required for Non-Conforming Items)  |
|---|-------------------------------------|--------------------------|--------------------------|--|
| 1 Shipping containers received intact and sealed?                         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Circle Applicable:<br>Seals broken Damaged container Leaking container Other (describe)                                    |
| 2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Preservation Method: Ice bags Blue ice Dry ice None Other (describe)<br><u>3</u> *all temperatures are recorded in Celsius |
| 2a Daily check performed and passed on IR temperature gun?                | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Temperature Device Serial #: <u>EJ092024949</u><br>Secondary Temperature Device Serial # (If Applicable):                  |
| 3 Chain of custody documents included with shipment?                      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |  |
| 4 Sample containers intact and sealed?                                    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Circle Applicable:<br>Seals broken Damaged container Leaking container Other (describe)                                    |
| 5 Samples requiring chemical preservation at proper pH?                   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Sample ID's, containers affected and observed pH:<br>If Preservation added, Lot#:  |
| 6 Do Low Level Perchlorate samples (EPA 6850) have headspace as required? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Sample ID's and containers affected:   |
| 7 VOA vials free of headspace (defined as < 6mm bubble)?                  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Sample ID's and containers affected:   |
| 8 Are Encore containers present?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | (If yes, immediately deliver to Volatiles laboratory)  |
| 9 Samples received within holding time?                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | ID's and tests affected:   |
| 10 Sample ID's on COC match ID's on bottles?                              | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Sample ID's and containers affected:   |
| 11 Date & time on COC match date & time on bottles?                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Sample ID's affected:  |
| 12 Number of containers received match number indicated on COC?           | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Sample ID's affected:  |
| 13 Are sample containers identifiable as GEL provided?                    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |  |
| 14 COC form is properly signed in relinquished/received sections?         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |  |
| 15 Carrier and tracking number.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Circle Applicable:<br>FedEx Air FedEx Ground UPS Field Services Courier Other<br><u>6381 3036 1635</u><br><u>↓ ↓ 1646</u>  |

Comments (Use Continuation Form if needed):

**There are no "Data Exception Reports" associated with this analytical report.**

**List of current GEL Certifications as of 22 May 2015**

| <b>State</b>             | <b>Certification</b>         |
|--------------------------|------------------------------|
| Alaska                   | UST-110                      |
| Arkansas                 | 88-0651                      |
| CLIA                     | 42D0904046                   |
| California               | 2940 Interim                 |
| Colorado                 | SC00012                      |
| Connecticut              | PH-0169                      |
| Delaware                 | SC000122013-10               |
| DoD ELAP/ ISO17025 A2LA  | 2567.01                      |
| Florida NELAP            | E87156                       |
| Foreign Soils Permit     | P330-12-00283, P330-12-00284 |
| Georgia                  | SC00012                      |
| Georgia SDWA             | 967                          |
| Hawaii                   | SC000122013-10               |
| Idaho Chemistry          | SC00012                      |
| Idaho Radiochemistry     | SC00012                      |
| Illinois NELAP           | 200029                       |
| Indiana                  | C-SC-01                      |
| Kansas NELAP             | E-10332                      |
| Kentucky SDWA            | 90129                        |
| Kentucky Wastewater      | 90129                        |
| Louisiana NELAP          | 03046 (AI33904)              |
| Louisiana SDWA           | LA150001                     |
| Maryland                 | 270                          |
| Massachusetts            | M-SC012                      |
| Michigan                 | 9976                         |
| Mississippi              | SC000122013-10               |
| Nebraska                 | NE-OS-26-13                  |
| Nevada                   | SC000122014-1                |
| New Hampshire NELAP      | 2054                         |
| New Jersey NELAP         | SC002                        |
| New Mexico               | SC00012                      |
| New York NELAP           | 11501                        |
| North Carolina           | 233                          |
| North Carolina SDWA      | 45709                        |
| Oklahoma                 | 9904                         |
| Pennsylvania NELAP       | 68-00485                     |
| Plant Material Permit    | PDEP-12-00260                |
| S.Carolina Radchem       | 10120002                     |
| South Carolina Chemistry | 10120001                     |
| Tennessee                | TN 02934                     |
| Texas NELAP              | T104704235-15-10             |
| Utah NELAP               | SC000122015-17               |
| Vermont                  | VT87156                      |
| Virginia NELAP           | 460202                       |
| Washington               | C780                         |