



Date: 03-23-2018

Attention: Homeowner

Subject: *Pre-Condition Survey / Water Well and Spring Analysis*

Contractors: *Doyle Land Services and Mountain State Reclamation, Inc. ("MSR"),
Authorized Representatives*

Reference: *Atlantic Coast Pipeline Project*

This letter is to provide requested Pre-Condition Survey and/or Water Well/Spring analysis from ACP Well Testing Project. Requested documents were conducted from October 1st, 2016 to December 31st, 2016 as fall phase 1AQ of project. Any questions or concerns please contact the call center at **1-888-895-8716**, Monday-Sunday 8:00 am until 5:00 pm and someone will return your call.

Thank you in advance for your time and cooperation.

Dominion

A handwritten signature in blue ink, appearing to be "J. A. ...", written over a horizontal line.

03-23-2018

Date

MSR
488 Zetko Lane
Danville, WV 25053
(304) 784-9714
(304) 310-7011 (Fax)

Well Water Survey Form

Site Description
tan doublewide with red shutters and dirt driveway.
well located in back yard about 30 yards from house.

Parcel #: 09-033.2
Structure No. / (1st Sample)
Name: Well / (1st Sample)
Latitude: 37 35 7.2
Longitude: -78 39 10.4
Pre Construction Requested: Yes
Best Time Call First

User Information
Name: Ms WAG ROSE Phone: NA
Address: 7632 South Lakeshore Drive Buckingham VA 23921
Do You Own Rent
Owner's Name: same
Owner Address/Phone: same

Resident Well Information
Use Domestic Other
Type Drilled Hand Dug
Location of well head: back yard
Shared Well? Yes No
If yes, whom: _____
Date Installed _____ Year 1995 Depth of Casing _____
Well Diameter _____ Inches 24
Well Casing _____ Steel _____ Plastic _____ Other
Well Depth _____ 180 _____ Feet
Static Water Level _____ unkl _____ Feet
Water Treatment _____ Yes No Type _____

Water Quality
Gallons of water used by household each day? _____ 0-50 _____ 50-100 _____ 100-200 _____ 200-500 _____ Other _____ Amount
Has well ever gone dry? _____ Yes No Date _____
Has well capacity ever been measured? _____ Yes No
List Data _____
Recharge Rate/recharge - refusal _____

Surveyed Well Information
Well Casing: 24 _____ Steel _____ Plastic _____ concrete _____ Other _____
Well Diameter: _____ UNkl _____ Inches _____
Static Water Level: _____ 180 _____ feet _____
Well Depth: _____ 1 _____ feet _____
Casting Height above ground: _____ 1 _____ feet _____

Residents Comments (Quality, Quantity, Other): _____

Well Pump Information
Make of pump: _____ unkl _____
Horsepower of pump: unkl _____ Submersible _____ Direct _____
Type of pump: _____
Date pump installed: 1995 _____
Power to pump: _____ 110 volts _____ 220 volts _____
Size of pressure tank: unkl _____
Size of pump hose: 1 inch _____

Water Quality
Does water stain surfaces/clothes? _____ Yes No
Which surfaces? _____ Color? _____
Does water have an odor? _____ Yes No
Any particulates (solids) in the water? _____ Yes No

Sampling Information
May water be collected to determine quality? _____ Yes No
If so, is sampling before/after treatment? _____ Yes No
Can recharge characteristics be determined? _____ Yes No
Can well be unsealed to measure depth? _____ Yes No
Location of sampling point? hydrant in back yard

Contact Information
Date of 1st Attempt: 11/30/16 Time: 1:00 Initials: da
Date of 2nd Attempt: _____ Time: _____ Initials: _____
Date of 3rd Attempt: _____ Time: _____ Initials: _____

Recharge Characteristics
Flow from pump: 5 _____ gpm
Static Water Level: _____ ft Time: _____
Static Water Level after 10 gallons has been removed: _____ ft Time: _____
Ending Depth: _____ Time: _____
Total time to recharge: _____

Signatures
Residents: refusal Date: 11/30/16
Surveyor: D Adkins Date: 11/30/16

Chain of Custody Record



21977-21984

Compliance Monitoring Laboratories, Inc.
 50 Caney Branch Rd., Suite 1 • Chapmanville, WV 25508
 Phone: (304) 855-0140 Fax: (304) 855-0141
 www.cmlinc.net

Turnaround Time
 Normal 2-Day 1-Day
 *Rush work needs prior lab approval and will incur additional charges.

Client: MSR
 Contact Person: _____ Phone: _____
 Fax: _____ Email: _____
 Address: _____ State: _____ Zip: _____
 Billing Address (if different): _____
 City: _____ State: _____ Zip: _____
 Project ID: ACP Sampler: DAKOTA ADKINS

| Sample ID | Sample Date | Sample Time | Flow | Field PH | Field Cond. | Field Temp. | Analysis Requested | 16oz. Large Bottle | 50ml. white lid bottle | 50ml. blue lid bottle | 50ml. Selenium lid bottle | Other | Preservation Codes | Bottles Preserved |
|-----------------------------------|-------------|-------------|-----------|----------|-------------|-------------|--------------------|--------------------|------------------------|-----------------------|---------------------------|-------|--------------------|-------------------|
| 17 07-DD1-AD19 WELL | 11-28-16 | 1:00 | sealed | 7.11 | | 14.9 | ACP | 8/16, 1/2 | 1/2 | | 1/2 | DtG 4 | Arab | ✓ |
| 18 08-DD1-AD04 WELL | 11-28-16 | 2:30 | sealed | 7.07 | | 15.2 | | | | | | | | ✓ |
| 19 01-015-SPEC516 WELL | 11-29-16 | 2:20 | 18.58 gpm | 6.31 | | 15.3 | | | | | | | | ✓ |
| 20 07-001-AD12 WELL | 11-29-16 | 5:00 | 0.18 gpm | 7.24 | | 16.0 | | | | | | | | ✓ |
| 21 09-033-2WELL | 11-30-16 | 1:00 | sealed | 6.89 | | 16.1 | | | | | | | | ✓ |
| 22 07-001-AD30.1 07-058-AD03.5 | 12-1-16 | 10:00 | sealed | 7.08 | | 16.6 | | | | | | | | ✓ |
| 23 07-010-SPE516 WELL | 12-1-16 | 3:00 | ported | 6.55 | | 15.0 | | | | | | | | ✓ |
| 24 07-DD1-AD16 WELL | 12-2-16 | 10:00 | 0.41 gpm | 6.79 | | 14.8 | | | | | | | | ✓ |

1 Relinquished By: Robert Adkins Date/Time: 12-2-16 15:45
 Received By: Melvin Adkins Date/Time: 12-2-16 16:00

2 Relinquished By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

Temp. at Arrival: 33.5°C Iced: Y N

Comments: * = New Email Results

Compliance Monitoring Laboratories, Inc.
50 Caney Branch Road, Suite #1
Chapmanville, West Virginia 25508
Phone: (304) 855-0140
Fax: (304) 855-0141

Client: MSR Date/Time Sampled: 11/30/2016 / 1300
 Special Proj. ID: ATLANTIC COAST PIPELINE Date Received: 12/2/2016
 Site ID: 09-033.2 WELL Sampled By: DA
 Laboratory ID: Z1981 Rainfall (12/48/72 previous hours):

| Parameter Name | Results | Units | Analytical | | | MDL | Method |
|----------------|---------|------------|------------|------------|------|-------|-----------------------|
| | | | Tech | Date | Time | | |
| PH | 6.89 | STD. UNITS | DA | 11/30/2016 | 1300 | N/A | SM4500-H B-11 |
| TEMPERATURE | 16.1 | °C | DA | 11/30/2016 | 1300 | N/A | SM2550 B-00 |
| CONDUCTIVITY | 187 | UMHOS | VM | 12/7/2016 | 0825 | N/A | SM2510 B-11 |
| IRON | 0.66 | MG/L | MC | 12/6/2016 | 0731 | 0.04 | SM3111 B-11 |
| MANGANESE | 0.111 | MG/L | MC | 12/6/2016 | 0731 | 0.001 | SM3111 B-11 |
| TSS | < 7 | MG/L | WA | 12/5/2016 | 0818 | 7 | USGS I-3765-85 |
| ALKALINITY | 82 | MG/L | AL | 12/7/2016 | 1316 | 7 | SM2320 B-11 |
| ACIDITY | < 0 | MG/L | AL | 12/7/2016 | 1316 | 0.38 | SM2310 B-11 |
| SULFATES | 16 | MG/L | VM | 12/7/2016 | 1032 | 2.5 | SM4500-SO4 E-11 |
| DS | 134 | MG/L | WA | 12/5/2016 | 1016 | 5 | USGS I-1750-85 |
| ALUMINUM | < 0.020 | MG/L | MC | 12/6/2016 | 0731 | 0.020 | SM3111 D-11 |
| SELENIUM | < 0.49 | UG/L | CG | 12/7/2016 | 1052 | 0.49 | SM3113 B-11 |
| ANTIMONY | < 1.10 | UG/L | CG | 1/3/2017 | 0855 | 1.10 | SM3113 B-11 |
| ARSENIC | < 0.51 | UG/L | CG | 12/29/2016 | 0855 | 0.51 | SM3113 B-11 |
| BERYLLIUM | < 0.020 | MG/L | AL | 12/14/2016 | 0837 | 0.020 | EPA200.7 REV 4.4-1994 |
| CADMIUM | 0.012 | MG/L | AL | 12/14/2016 | 0837 | 0.004 | EPA200.7 REV 4.4-1994 |
| CALCIUM | 20.583 | MG/L | CG | 12/7/2016 | 1320 | 0.010 | EPA200.7 REV 4.4-1994 |
| CHLORIDES | < 3.95 | MG/L | AL | 12/5/2016 | 1150 | 3.95 | SM4500-CI C-11 |

*Analysis provided by EnviroCompliance Laboratories, Inc.

Approved: Hampton Bay

Compliance Monitoring Laboratories, Inc.
50 Caney Branch Road, Suite #1
Chapmanville, West Virginia 25508
Phone: (304) 855-0140
Fax: (304) 855-0141

Client: MSR Date/Time Sampled: 11/30/2016 / 1300
 Special Proj. ID: ATLANTIC COAST PIPELINE Date Received: 12/2/2016
 Site ID: 09-033.2 WELL Sampled By: DA
 Laboratory ID: Z1981 Rainfall (12/48/72 previous hours):

| Parameter Name | Results | Units | Analytical | | | MDL | Method |
|--------------------|---------|------------|------------|------------|------|-------|------------------------|
| | | | Tech | Date | Time | | |
| CHROMIUM | < 0.01 | MG/L | AL | 12/14/2016 | 1312 | 0.01 | EPA200.7 REV 4.4-1994 |
| COPPER | < 0.003 | MG/L | AL | 12/14/2016 | 0955 | 0.003 | EPA200.7 REV 4.4-1994 |
| CYANIDE | < .236 | MG/L | SB | 12/9/2016 | 1300 | 0.236 | SM4500CN F-11 |
| FECAL | < 1.8 | MPN/100 mL | *EC | 12/2/2016 | 1500 | 1.8 | 9221E+C06 |
| HARDNESS | 65.68 | MG/L | CG | 12/7/2016 | 1502 | 0.07 | SM2340 B-11 |
| LEAD | < 0.15 | MG/L | AL | 12/14/2016 | 1219 | 0.15 | EPA200.7 REV 4.4-1994 |
| MAGNESIUM | 3.471 | MG/L | CG | 12/7/2016 | 1320 | 0.012 | EPA200.7 REV 4.4-1994 |
| MERCURY | < 0.572 | UG/L | CG | 12/8/2016 | 1111 | 0.572 | EPA 245.1 Rev 3.0-1994 |
| NICKEL | < 0.005 | MG/L | AL | 12/14/2016 | 0955 | 0.005 | EPA200.7 REV 4.4-1994 |
| OIL & GREASE | 15.2 | MG/L | SB | 12/19/2016 | 1630 | 12.36 | EPA 1664 A |
| PHENOLS | < .1 | MG/L | SB | 12/13/2016 | 1500 | 0.1 | EPA 420.1 Rev 1978 |
| SILVER | 0.05 | MG/L | AL | 12/14/2016 | 0837 | 0.04 | EPA200.7 REV 4.4-1994 |
| STATIC WATER LEVEL | SEALE | FEET | DA | 11/30/2016 | 1300 | N/A | MEASURED |
| THALLIUM | < 0.18 | MG/L | AL | 12/14/2016 | 1101 | 0.18 | EPA200.7 REV 4.4-1994 |
| ZINC | 0.089 | MG/L | AL | 12/14/2016 | 0955 | 0.013 | EPA200.7 REV 4.4-1994 |

*Analysis provided by EnviroCompliance Laboratories, Inc.

Approved: Kampton Ball

CHAIN OF CUSTODY
 EnviroCompliance Laboratories, Inc.



| Date | Time | Sample ID | Sample Description | ACQUISITION | | ANALYSIS | | MSR | ADDRESS | CITY | STATE | ZIP | PHONE |
|----------|------|-----------|--------------------|-------------|---|----------|---|-----|---------|------|-------|-----|-------|
| | | | | 1 | 2 | 1 | 2 | | | | | | |
| 11-30-16 | 1:00 | 1 | 09-033.2 well | | | | | | | | | | |
| | 2:30 | 2 | 07-001-A212 well | | | | | | | | | | |
| | | 3 | | | | | | | | | | | |
| | | 4 | | | | | | | | | | | |
| | | 5 | | | | | | | | | | | |
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| | | 14 | | | | | | | | | | | |
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| | | 16 | | | | | | | | | | | |
| | | 17 | | | | | | | | | | | |
| | | 18 | | | | | | | | | | | |
| | | 19 | | | | | | | | | | | |
| | | 20 | | | | | | | | | | | |

ACQUISITION
 V-24 Patrick

MSR

MSR

MSR Rec: 11-30 09:41:12/06 V6812230

MSR Rec: 11-30 09:41:12/06 V6812230

MSR Rec: 11-30 09:41:12/06 V6812230



Analytical Results

V6B12280

Enviro Compliance Laboratories, Inc.
Post Office Box 919
Verona, Virginia 24482
(540) 248-1311
Fax: (540) 248-4604
www.envirocompliance.com
eclverona@envirocompliance.com

Mountain State Rec. Inc
Attn: Joshua Justice
488 Zatto Lane
Danville, WV 25053

Project Name : ACP
Date Received: November 30, 2016
Date Sampled : November 30, 2016
Time Sampled : 13:00
Date Issued : December 05, 2016

Lab # V6B12280 - 1(A)/Sample ID : 09-033.2 well Z1981

| Parameter | Result | Units | QL | Date/Time Prepared | Date/Time Analyzed | Method | Analyst |
|----------------|--------|-----------|-----|--------------------|--------------------|-----------|---------|
| Fecal Coliform | < 1.8 | MPN/100ml | 1.8 | 11-30/1600 | 12-02/1500 | 9221E+C06 | NFG |

Lab # V6B12280 - 2(A)/Sample ID : 07-001-A212 well Z1980

| Parameter | Result | Units | QL | Date/Time Prepared | Date/Time Analyzed | Method | Analyst |
|----------------|--------|-----------|-----|--------------------|--------------------|-----------|---------|
| Fecal Coliform | < 1.8 | MPN/100ml | 1.8 | 11-30/1600 | 12-02/1500 | 9221E+C06 | NFG |

Entered
12/16/16

V6B12280

V6B12280

BQL = Below Quantitation Level
All data meets NELAP requirements unless otherwise noted.

Tamara Hostetter

Tamara G. Hostetter
Laboratory Manager

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