



May 6, 2020

Ms. Sharon Svitek
Environmental Program Manager
Department of Environmental Protection
Southwest Regional Office
400 Waterfront Drive
Pittsburgh, Pennsylvania 15222

Dear Ms. Svitek:

Subject: Transmittal
Permit Renewal for General Permit No. WMGR123SW025
Dogbone Centralized Water Facility
Chevron Appalachia, LLC
Luzerne Township, Fayette County, Pennsylvania
CEC Project 302-210.0001

On behalf of Chevron Appalachia, LLC (Chevron), Civil & Environmental Consultants, Inc. (CEC) submits one original and one copy of the enclosed permit renewal application for the Dogbone Centralized Water Facility, located in Luzerne Township, Fayette County, Pennsylvania. This application requests a renewal of General Permit No. WMGR123SW025 to store and process flowback, produced water, brine, and freshwater at the Dogbone Centralized Water Facility. The water will be beneficially re-used for drilling operations. No permit modifications are proposed as part of this renewal application. A check for \$300 is also enclosed to satisfy the renewal fee.

CEC notes that the permit terms require a renewal application to be submitted a minimum of 180 days prior to the expiration date of October 4, 2020. Based on information provided by the Marcellus Shale Coalition (MSC), Chevron understands that the Pennsylvania Department of Environmental Protection (DEP) has agreed to reduce the timeframe for submittal to 150 days before the permit expiration date, or May 7, 2020. Therefore, Chevron is submitting this application prior to the extended submittal deadline.

We trust this submittal is sufficient for the DEP to begin review of the application for administrative completeness. If you have any questions or require additional information, please contact Mr. Branden Weimer of Chevron at (412) 865-3140 or CEC at (724) 327-5200.

Very truly yours,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

Jill R. Hamill, P.E.
Project Manager

Ellis M. Boury, P.E.
Senior Project Manager

JRH:EMB/jg
Enclosures

cc: Branden Weimer

L-302210.0001.May6/P

WMGR123 PERMIT RENEWAL APPLICATION

**CHEVRON APPALACHIA, LLC
DOGBONE CENTRALIZED WATER FACILITY
STORAGE TANKS AND SECONDARY CONTAINMENT**

LUZERNE TOWNSHIP, FAYETTE COUNTY, PENNSYLVANIA

Prepared For:



**CHEVRON APPALACHIA, LLC
700 Cherrington Parkway
Coraopolis, PA 15108**

Prepared By:



**CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
4350 Northern Pike, Suite 141
Monroeville, PA 15146
(724) 327-5200**

CEC Project 302-210.0001

May 2020

WMGR123 PERMIT RENEWAL APPLICATION

CHEVRON APPALACHIA, LLC DOGBONE CENTRALIZED WATER FACILITY LUZERNE TOWNSHIP, FAYETTE COUNTY, PENNSYLVANIA

APPLICATION NARRATIVE

Chevron Appalachia, LLC (Chevron) submits this permit renewal application to the Pennsylvania Department of Environmental Protection (DEP) to request renewal of General Permit Number WMGR123SW025 for the Dogbone Centralized Water Facility, located in Luzerne Township, Fayette County, Pennsylvania. The permit allows Chevron to store and process (mix and settle) flowback, produced water, brine, and fresh water (collectively referred to in this application as “water”) in five (5) 1.0 million gallon capacity tanks with secondary containment.

Sources for these waters include Chevron projects as well as other generators engaged in similar processes and activities (both unconventional wells and conventional wells). Water will be transmitted to and from the tanks using tanker trucks and/or piping originating from off-site areas. No permit modifications are proposed as part of this renewal application.

This application includes the following:

- Renewal Fee;
- Checklist - Renewal of a Municipal or Residual Waste General Permit;
- General Information Form;
- Form B, Professional Certification;
- Form HW-C, Compliance History;
- Form E-GP, Contractual Consent of Landowner for a General Permit;
- Form 20, Application for a Municipal or Residual Waste General Permit:
 - Proof of Notification to Host Municipality and County;
 - Updated Chemical Analyses; and
- Form 27R, Acceptance of General Permit Conditions.

CHECKLIST - RENEWAL OF A MUNICIPAL OR RESIDUAL WASTE GENERAL PERMIT

This checklist is to assist the Department and the Applicant in assuring that all the forms, notices, documentation and fees required for renewal of a municipal or residual waste general permit have been addressed. This checklist should be signed by the Applicant and submitted to the Department as part of the application package. Failure to do so may cause the application to be administratively incomplete and ineligible for Permit Decision Guarantee (PDG).¹

This checklist will be utilized by the Department and Applicant during the pre-application meeting to indicate the forms and other information which must be included in the application and public notifications that are needed. The Department will check the appropriate box in the first two columns to indicate the forms and information required ("Req") or not applicable ("N/A"). The Applicant will then ensure the required forms and information are included in the application by checking the corresponding box in the third column.

In cases where no pre-application meeting is held, the Applicant will indicate what forms are included in the application by checking the appropriate boxes in the third column.

The most current version of the forms found on the Department's online eLibrary should be utilized.

Name of Applicant or Permittee Chevron Appalachia, LLC Permit No. (if applicable) WMGR123SW025

Links to the Department Website for All GP Application Forms:

Municipal Waste	http://www.portal.state.pa.us/portal/server.pt?open=514&objID=589661&mode=2
Residual Waste	http://www.portal.state.pa.us/portal/server.pt?open=514&objID=589686&mode=2

Standard Permit Forms

Req.	N/A	√	Name	Form No. (Municipal)	Form No. (Residual)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	General Information Form (GIF)	2540-PM-BWM0515 Or 1300-PM-BIT0001	2540-PM-BWM0515 Or 1300-PM-BIT0001
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form 20 - Application For a Municipal or Residual Waste General Permit	2540-PM-BWM0397	2540-PM-BWM0397
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form B - Professional Certification	2540-PM-BWM0358	2540-PM-BWM0358
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form E-GP - Contractual Consent of Landowner	2540-FM-BWM0217	2540-FM-BWM0217

¹DISCLAIMER: The process and procedures outlined in this Checklist are intended to supplement existing requirements. Nothing in the Checklist shall affect regulatory requirements.

The process, procedures and interpretations herein are not an adjudication or a regulation. There is no intent on the part of DEP to give the rules in this Checklist that weight or deference. This document establishes the framework within which DEP will exercise its administrative discretion in the future. DEP reserves the discretion to deviate from this policy statement if circumstances warrant.

DEP reserves the right to supplement the list of forms and information included on this Checklist at any time during the permit review process. This Checklist should not be construed as an exhaustive list of forms and information to be submitted by the Applicant.

Standard Permit Forms (cont.)

Req.	N/A	√	Name	Form No. (Municipal)	Form No. (Residual)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form HW-C - Compliance History	2540-FM-BWM0058	2540-FM-BWM0058
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form L - Contingency Plan	2540-PM-BWM0384	2540-PM-BWM0384
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form R1 - Waste Analysis and Classification	2540-PM-BWM0001	2540-PM-BWM0001
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form 20IC – Application for an Infectious/Chemotherapeutic Waste Processing Permit (WMGI005, WMGI007, WMGI010, and WMGI014 ONLY)	2540-PM-BWM0124	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form 20RF - Application for a Regulated Fill General Permit (WMGR096 ONLY)		2540-PM-BWM0403
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form 27M - Acceptance of General Permit Conditions	2540-PM-BWM0146	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form 27R - Acceptance of General Permit Conditions		2540-PM-BWM0145

Additional Permit Forms (if required)

Req.	N/A	√	Name	Form No. (Municipal)	Form No. (Residual)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form 5 - Map Requirements	2540-PM-BWM0154	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form 5R - Map Requirements		2540-PM-BWM0363

Bonding Worksheets

Req.	N/A	√	Name	Form No. (Municipal)	Form No. (Residual)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Bonding Worksheet Instructions	2540-PM-BWM0580	2540-PM-BWM0580
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Processing Facilities	2540-PM-BWM0586	2540-PM-BWM0586

Confidential Information under 25 Pa. Code Chapters 271.5 and 287.5, and the Bureau of Waste Management's "Procedures for Handling Confidential Information Requests" document.

Req.	N/A	√	Description
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If proposed by the applicant, a demonstration that application information satisfies the regulatory requirements for confidentiality.

Registration with Pennsylvania Department of State

Req.	√	Name	Form No.
<input type="checkbox"/>	<input type="checkbox"/>	Pennsylvania Enterprise Registration	PA-100

Application Fee

Required	√	Authorization Type	Amount
	<input checked="" type="checkbox"/>		Renewal

Additional Application Copies

Req.	N/A	√	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	One original and <u>1</u> additional copies of the application

Notes/Additional Comments

Signature of Applicant or Authorized Representative: Jill R Hamill Date: 5/5/20

Printed Name: Jill R. Hamill Title: Project Manager

GENERAL INFORMATION FORM



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

GENERAL INFORMATION FORM – AUTHORIZATION APPLICATION

Before completing this General Information Form (GIF), read the step-by-step instructions provided in this application package. This version of the General Information Form (GIF) must be completed and returned with any program-specific application being submitted to the Department.

Client ID# <u>279986</u>		Related ID#s (If Known)		DEP USE ONLY Date Received & General Notes	
Site ID# <u>822441</u>		APS ID# _____			
Facility ID# _____		Auth ID# _____			

CLIENT INFORMATION

DEP Client ID# 279986		Client Type / Code LLC			
Organization Name or Registered Fictitious Name Chevron Appalachia, LLC			Employer ID# (EIN) 208243540	Dun & Bradstreet ID#	
Individual Last Name	First Name	MI	Suffix	SSN	
Additional Individual Last Name	First Name	MI	Suffix	SSN	
Mailing Address Line 1 700 Cherrington Parkway			Mailing Address Line 2		
Address Last Line – City Coraopolis		State PA	ZIP+4 15108	Country U.S.	
Client Contact Last Name Weimer	First Name Branden	MI	Suffix		
Client Contact Title Senior Permitting Advisor			Phone (412) 865-3140	Ext	
Email Address bweimer@chevron.com			FAX		

SITE INFORMATION

DEP Site ID# 822441	Site Name Chevron Appalachia, LLC – Dogbone Centralized Water Facility				
EPA ID# N/A	Estimated Number of Employees to be Present at Site				10

Description of Site
The application requests renewal for coverage under the WMGR123 General Permit to utilize storage tanks and secondary containment at the Dogbone Centralized Water Facility site to store, process (mix and settle), and beneficially reuse flowback, produced water, brine, and freshwater. Sources for these waters will include Chevron Appalachia, LLC (Chevron) projects as well as other generators engaged in similar processes and activities (both unconventional wells and conventional wells). Water will be transmitted to and from the tanks using both tanker trucks and piping.

County Name Fayette	Municipality Luzerne	City <input type="checkbox"/>	Boro <input type="checkbox"/>	Twp <input checked="" type="checkbox"/>	State PA
County Name	Municipality	City <input type="checkbox"/>	Boro <input type="checkbox"/>	Twp <input type="checkbox"/>	State
Site Location Line 1 Rush Run Road			Site Location Line 2		
Site Location Last Line – City Millsboro		State PA	ZIP+4 15433		

Detailed Written Directions to Site
Head south on PA-51/Sawmill Run Boulevard to the PA-43 South ramp. Take the exit ramp and continue onto PA-43 South. After approximately 26 miles, take Exit 26 toward Brownsville Republic. At the end of the exit ramp, turn right onto T601/Telegraph Road, then make the first right to stay on T601/Telegraph Road. After 1.6 miles, continue onto Rush Run Road. The site entrance will be approximately 1.0 mile ahead on the right.

Site Contact Last Name Weimer		First Name Branden		MI	Suffix
Site Contact Title Senior Permitting Advisor			Site Contact Firm Chevron Appalachia, LLC		
Mailing Address Line 1 700 Cherrington Parkway			Mailing Address Line 2		
Mailing Address Last Line – City Coraopolis			State PA	ZIP+4 15108	
Phone (412) 865-3140	Ext	FAX	Email Address bweimer@chevron.com		
NAICS Codes (Two- & Three-Digit Codes – List All That Apply) 211				6-Digit Code (Optional)	

Client to Site Relationship
LESOP

FACILITY INFORMATION

Modification of Existing Facility	Yes	No
1. Will this project modify an existing facility, system, or activity?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Will this project involve an addition to an existing facility, system, or activity?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

If "Yes", check all relevant facility types and provide DEP facility identification numbers below.

Facility Type	DEP Fac ID#	Facility Type	DEP Fac ID#
<input type="checkbox"/> Air Emission Plant	_____	<input type="checkbox"/> Industrial Minerals Mining Operation	_____
<input type="checkbox"/> Beneficial Use (water)	_____	<input type="checkbox"/> Laboratory Location	_____
<input type="checkbox"/> Blasting Operation	_____	<input type="checkbox"/> Land Recycling Cleanup Location	_____
<input type="checkbox"/> Captive Hazardous Waste Operation	_____	<input type="checkbox"/> Mine DrainageTrmt/LandRecyProjLocation	_____
<input type="checkbox"/> Coal Ash Beneficial Use Operation	_____	<input type="checkbox"/> Municipal Waste Operation	_____
<input type="checkbox"/> Coal Mining Operation	_____	<input type="checkbox"/> Oil & Gas Encroachment Location	_____
<input type="checkbox"/> Coal Pillar Location	_____	<input type="checkbox"/> Oil & Gas Location	_____
<input type="checkbox"/> Commercial Hazardous Waste Operation	_____	<input type="checkbox"/> Oil & Gas Water Poll Control Facility	_____
<input type="checkbox"/> Dam Location	_____	<input type="checkbox"/> Oil & Gas Wastewater Storage Impoundment	_____
<input type="checkbox"/> Deep Mine Safety Operation -Anthracite	_____	<input type="checkbox"/> Public Water Supply System	_____
<input type="checkbox"/> Deep Mine Safety Operation -Bituminous	_____	<input type="checkbox"/> Radiation Facility	_____
<input type="checkbox"/> Deep Mine Safety Operation -Ind Minerals	_____	<input type="checkbox"/> Residual Waste Operation	_____
<input type="checkbox"/> Encroachment Location (water, wetland)	_____	<input type="checkbox"/> Storage Tank Location	_____
<input type="checkbox"/> Erosion & Sediment Control Facility	_____	<input type="checkbox"/> Water Pollution Control Facility	_____
<input type="checkbox"/> Explosive Storage Location	_____	<input type="checkbox"/> Water Resource	_____
		<input type="checkbox"/> Other:	_____

Latitude/Longitude Point of Origin	Latitude			Longitude		
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
Tank Pad Location	39	58	21	79	56	49
Horizontal Accuracy Measure	Feet			--or-- Meters		
Horizontal Reference Datum Code	<input type="checkbox"/> North American Datum of 1927 <input checked="" type="checkbox"/> North American Datum of 1983 <input type="checkbox"/> World Geodetic System of 1984					
Horizontal Collection Method Code	EMAP					
Reference Point Code	CNTER					
Altitude	Feet			--or-- Meters		
Altitude Datum Name	<input type="checkbox"/> The National Geodetic Vertical Datum of 1929 <input checked="" type="checkbox"/> The North American Vertical Datum of 1988 (NAVD88)					
Altitude (Vertical) Location Datum Collection Method Code	TOPO					
Geometric Type Code	POINT					
Data Collection Date						
Source Map Scale Number	1	Inch(es)	=	200	Feet	
	--or--	Centimeter(s)	=	Meters		

PROJECT INFORMATION

Project Name
Chevron Appalachia, LLC – Dogbone Centralized Water Facility, WMGR123 Renewal

Project Description
Permit renewal for five above-ground tanks and secondary containment for storage/processing of flowback water for beneficial reuse at subsequent well sites.

Project Consultant Last Name Hamill	First Name Jill	MI R	Suffix
Project Consultant Title Project Manager		Consulting Firm Civil & Environmental Consultants, Inc.	
Mailing Address Line 1 4350 Northern Pike, Suite 141		Mailing Address Line 2	
Address Last Line – City Monroeville		State PA	ZIP+4 15146
Phone (724) 327-5200	Ext	FAX (724) 327-5280	Email Address jhamill@cecinc.com

Time Schedules	Project Milestone (Optional)

1. **Have you informed the surrounding community and addressed any concerns prior to submitting the application to the Department?** Yes No

2. **Is your project funded by state or federal grants?** Yes No
Note: If “Yes”, specify what aspect of the project is related to the grant and provide the grant source, contact person and grant expiration date.
 Aspect of Project Related to Grant _____
 Grant Source: _____
 Grant Contact Person: _____
 Grant Expiration Date: _____

3. **Is this application for an authorization on Appendix A of the Land Use Policy? (For referenced list, see Appendix A of the Land Use Policy attached to GIF instructions)** Yes No
Note: If “No” to Question 3, the application is not subject to the Land Use Policy.
 If “Yes” to Question 3, the application is subject to this policy and the Applicant should answer the additional questions in the **Land Use Information** section.

LAND USE INFORMATION

Note: Applicants are encouraged to submit copies of local land use approvals or other evidence of compliance with local comprehensive plans and zoning ordinances.

1. **Is there an adopted county or multi-county comprehensive plan?** Yes No

2. **Is there an adopted municipal or multi-municipal comprehensive plan?** Yes No

3. **Is there an adopted county-wide zoning ordinance, municipal zoning ordinance or joint municipal zoning ordinance?** Yes No
Note: If the Applicant answers “No” to either Questions 1, 2 or 3, the provisions of the PA MPC are not applicable and the Applicant does not need to respond to questions 4 and 5 below.
 If the Applicant answers “Yes” to questions 1, 2 and 3, the Applicant should respond to questions 4 and 5 below.

4. **Does the proposed project meet the provisions of the zoning ordinance or does the proposed project have zoning approval?** Yes No
 If zoning approval has been received, attach documentation.

5. **Have you attached Municipal and County Land Use Letters for the project?** Yes No

COORDINATION INFORMATION

Note: The PA Historical and Museum Commission must be notified of proposed projects in accordance with DEP Technical Guidance Document 012-0700-001 and the accompanying Cultural Resource Notice Form.

If the activity will be a mining project (i.e., mining of coal or industrial minerals, coal refuse disposal and/or the operation of a coal or industrial minerals preparation/processing facility), respond to questions 1.0 through 2.5 below.

If the activity will not be a mining project, skip questions 1.0 through 2.5 and begin with question 3.0.

1.0	Is this a coal mining project? If "Yes", respond to 1.1-1.6. If "No", skip to Question 2.0.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
1.1	Will this coal mining project involve coal preparation/ processing activities in which the total amount of coal prepared/processed will be equal to or greater than 200 tons/day?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
1.2	Will this coal mining project involve coal preparation/ processing activities in which the total amount of coal prepared/processed will be greater than 50,000 tons/year?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
1.3	Will this coal mining project involve coal preparation/ processing activities in which thermal coal dryers or pneumatic coal cleaners will be used?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
1.4	For this coal mining project, will sewage treatment facilities be constructed and treated waste water discharged to surface waters?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
1.5	Will this coal mining project involve the construction of a permanent impoundment meeting one or more of the following criteria: (1) a contributory drainage area exceeding 100 acres; (2) a depth of water measured by the upstream toe of the dam at maximum storage elevation exceeding 15 feet; (3) an impounding capacity at maximum storage elevation exceeding 50 acre-feet?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
1.6	Will this coal mining project involve underground coal mining to be conducted within 500 feet of an oil or gas well?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
2.0	Is this a non-coal (industrial minerals) mining project? If "Yes", respond to 2.1-2.6. If "No", skip to Question 3.0.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
2.1	Will this non-coal (industrial minerals) mining project involve the crushing and screening of non-coal minerals other than sand and gravel?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
2.2	Will this non-coal (industrial minerals) mining project involve the crushing and/or screening of sand and gravel with the exception of wet sand and gravel operations (screening only) and dry sand and gravel operations with a capacity of less than 150 tons/hour of unconsolidated materials?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
2.3	Will this non-coal (industrial minerals) mining project involve the construction, operation and/or modification of a portable non-metallic (i.e., non-coal) minerals processing plant under the authority of the General Permit for Portable Non-metallic Mineral Processing Plants (i.e., BAQ-PGPA/GP-3)?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
2.4	For this non-coal (industrial minerals) mining project, will sewage treatment facilities be constructed and treated waste water discharged to surface waters?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
2.5	Will this non-coal (industrial minerals) mining project involve the construction of a permanent impoundment meeting one or more of the following criteria: (1) a contributory drainage area exceeding 100 acres; (2) a depth of water measured by the upstream toe of the dam at maximum storage elevation exceeding 15 feet; (3) an impounding capacity at maximum storage elevation exceeding 50 acre-feet?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No

3.0	Will your project, activity, or authorization have anything to do with a well related to oil or gas production, have construction within 200 feet of, affect an oil or gas well, involve the waste from such a well, or string power lines above an oil or gas well? If "Yes", respond to 3.1-3.3. If "No", skip to Question 4.0.	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
3.1	Does the oil- or gas-related project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a watercourse, floodway or body of water (including wetlands)?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
3.2	Will the oil- or gas-related project involve discharge of industrial wastewater or stormwater to a dry swale, surface water, ground water or an existing sanitary sewer system or storm water system? If "Yes", discuss in <i>Project Description</i> .	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
3.3	Will the oil- or gas-related project involve the construction and operation of industrial waste treatment facilities?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
4.0	Will the project involve a construction activity that results in earth disturbance? If "Yes", specify the total disturbed acreage. 4.0.1	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
5.0	Does the project involve any of the following? If "Yes", respond to 5.1-5.3. If "No", skip to Question 6.0.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
5.1	Water Obstruction and Encroachment Projects – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a watercourse, floodway or body of water?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
5.2	Wetland Impacts – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a wetland?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
5.3	Floodplain Projects by the commonwealth, a Political Subdivision of the commonwealth or a Public Utility – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a floodplain?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
6.0	Will the project involve discharge of stormwater or wastewater from an industrial activity to a dry swale, surface water, ground water or an existing sanitary sewer system or separate storm water system?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
7.0	Will the project involve the construction and operation of industrial waste treatment facilities?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
8.0	Will the project involve construction of sewage treatment facilities, sanitary sewers, or sewage pumping stations? If "Yes", indicate estimated proposed flow (gal/day). Also, discuss the sanitary sewer pipe sizes and the number of pumping stations/treatment facilities/name of downstream sewage facilities in the <i>Project Description</i> , where applicable. 8.0.1 Estimated Proposed Flow (gal/day)	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
9.0	Will the project involve the subdivision of land, or the generation of 800 gpd or more of sewage on an existing parcel of land or the generation of an additional 400 gpd of sewage on an already-developed parcel, or the generation of 800 gpd or more of industrial wastewater that would be discharged to an existing sanitary sewer system?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
9.0.1	Was Act 537 sewage facilities planning submitted and approved by DEP? If "Yes" attach the approval letter. Approval required prior to 105/NPDES approval.	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
10.0	Is this project for the beneficial use of biosolids for land application within Pennsylvania? If "Yes" indicate how much (i.e. gallons or dry tons per year).	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
10.0.1	Gallons Per Year (residential septage) _____				
10.0.2	Dry Tons Per Year (biosolids) _____				

11.0	Does the project involve construction, modification or removal of a dam? If "Yes", identify the dam.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
11.0.1	Dam Name _____				
12.0	Will the project interfere with the flow from, or otherwise impact, a dam? If "Yes", identify the dam.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
12.0.1	Dam Name _____				
13.0	Will the project involve operations (excluding during the construction period) that produce air emissions (i.e., NOX, VOC, etc.)? If "Yes", identify each type of emission followed by the amount of that emission.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
13.0.1	Enter all types & amounts of emissions; separate each set with semicolons. _____				
14.0	Does the project include the construction or modification of a drinking water supply to serve 15 or more connections or 25 or more people, at least 60 days out of the year? If "Yes", check all proposed sub-facilities.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
14.0.1	Number of Persons Served _____				
14.0.2	Number of Employee/Guests _____				
14.0.3	Number of Connections _____				
14.0.4	Sub-Fac: Distribution System	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.5	Sub-Fac: Water Treatment Plant	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.6	Sub-Fac: Source	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.7	Sub-Fac: Pump Station	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.8	Sub Fac: Transmission Main	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.9	Sub-Fac: Storage Facility	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
15.0	Will your project include infiltration of storm water or waste water to ground water within one-half mile of a public water supply well, spring or infiltration gallery?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
16.0	Is your project to be served by an existing public water supply? If "Yes", indicate name of supplier and attach letter from supplier stating that it will serve the project.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
16.0.1	Supplier's Name _____				
16.0.2	Letter of Approval from Supplier is Attached	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
17.0	Will this project involve a new or increased drinking water withdrawal from a stream or other water body? If "Yes", should reference both Water Supply and Watershed Management.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
17.0.1	Stream Name _____				
18.0	Will the construction or operation of this project involve treatment, storage, reuse, or disposal of waste? If "Yes", indicate what type (i.e., hazardous, municipal (including infectious & chemotherapeutic), residual) and the amount to be treated, stored, re-used or disposed.	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
18.0.1	Type & Amount Storage of flowback, produced water, brine and freshwater, 1,000,000 gallons maximum per tank, total of 5,000,000 gallons in five tanks at any one time.				
19.0	Will your project involve the removal of coal, minerals, etc. as part of any earth disturbance activities?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
20.0	Does your project involve installation of a field constructed underground storage tank? If "Yes", list each Substance & its Capacity. Note: Applicant may need a Storage Tank Site Specific Installation Permit.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
20.0.1	Enter all substances & capacity of each; separate each set with semicolons. _____				

- 21.0 Does your project involve installation of an aboveground storage tank greater than 21,000 gallons capacity at an existing facility? If "Yes", list each Substance & its Capacity. **Note:** Applicant may need a Storage Tank Site Specific Installation Permit. Yes No
21.0.1 Enter all substances & capacity of each; separate each set with semicolons.
- 22.0 Does your project involve installation of a tank greater than 1,100 gallons which will contain a highly hazardous substance as defined in DEP's Regulated Substances List, 2570-BK-DEP2724? If "Yes", list each Substance & its Capacity. **Note:** Applicant may need a Storage Tank Site Specific Installation Permit. Yes No
22.0.1 Enter all substances & capacity of each; separate each set with semicolons.
- 23.0 Does your project involve installation of a storage tank at a new facility with a total AST capacity greater than 21,000 gallons? If "Yes", list each Substance & its Capacity. **Note:** Applicant may need a Storage Tank Site Specific Installation Permit. Yes No
23.0.1 Enter all substances & capacity of each; separate each set with semicolons.
- 24.0 Will the intended activity involve the use of a radiation source? Yes No

CERTIFICATION

I certify that I have the authority to submit this application on behalf of the applicant named herein and that the information provided in this application is true and correct to the best of my knowledge and information.

Type or Print Name Jill R. Hamill, P.E.

Jill R Hamill
Signature

Project Manager
Title

5/5/20
Date

FORM B

PROFESSIONAL CERTIFICATION



Date Prepared/Revised May 2020
DEP USE ONLY
Date Received

FORM B PROFESSIONAL CERTIFICATION

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form B, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 271.122, 287.122

SECTION A. SITE IDENTIFIER

Applicant/permittee: **Chevron Appalachia, LLC**

Site Name: **Chevron Appalachia, LLC – Dogbone Centralized Water Facility**

Facility ID (as issued by DEP): **WMGR123SW025**

SECTION B. REGISTERED PROFESSIONAL ENGINEER

I, **Jill R. Hamill, P.E.**

(Engineer's Name – Print or Type)

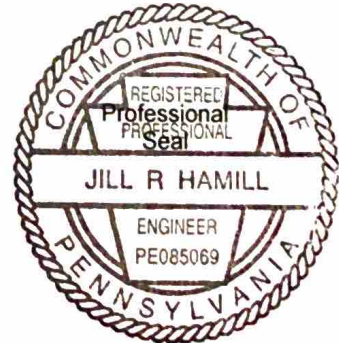
being a Registered Professional Engineer in accordance with the Pennsylvania Professional Engineer's Registration Law, do hereby certify to the best of my knowledge, information, and belief that the information contained in the accompanying application, plans, specifications, and reports has been prepared in accordance with accepted practice of engineering, are true and correct, and are in accordance with the Rules and Regulations of the Department of Environmental Protection. I also certify that those individuals indicated in the following paragraphs prepared this application under my supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

Signature *Jill R Hamill* Date 5/5/20

License Number PE-085069 Expiration Date 9/30/21

Address 4350 Northern Pike, Suite 141
Monroeville, PA 15146

Telephone No. (724) 327-5200



FORM HW-C
COMPLIANCE HISTORY



FORM HW-C COMPLIANCE HISTORY

Fully and accurately provide the following information, as specified. Attach additional sheets as necessary.

Type of Form HW-C Submittal (check all that apply):

Original Filing Amended Filing Date of Last Filing April 2017

Type of Permit or License Submittal:

New Application Renewal Annual Update Other _____
 (specify)

A. General Applicant Information:

1. NAME OF PERMIT OR LICENSE APPLICANT/PERMITTEE/LICENSEE ("applicant")
 (non-corporations attach documentation of legal name):

Chevron Appalachia, LLC

ADDRESS: 700 Cherrington Parkway

Coraopolis, PA 15108

TELEPHONE NUMBER: 412-865-3101

TAXPAYER ID#: 20-8243540

PERMIT, LICENSE OR APPLICATION ID#: WMGR123SW025

2. Identify the form of management under which the applicant conducts its business (check appropriate box) and describe the type(s) of business activities performed:

<input type="checkbox"/> Individual	<input type="checkbox"/> Fictitious Name
<input type="checkbox"/> Municipality	<input type="checkbox"/> Partnership
<input type="checkbox"/> Proprietorship	<input type="checkbox"/> Limited Partnership
<input type="checkbox"/> Public Corporation	<input type="checkbox"/> Government Agency
<input type="checkbox"/> Private Corporation	<input type="checkbox"/> Joint Venture
<input type="checkbox"/> Syndicate	<input type="checkbox"/> Association
<input type="checkbox"/> Municipal Authority	<input checked="" type="checkbox"/> Other Type of Business <u>Limited Liability Company</u>

(specify)

3. Type of permit, license or application (check all that apply):

Hazardous Waste Permit
 Hazardous Waste Transporter License
 Municipal Waste Permit
 Regulated Medical, Chemotherapeutic Waste Transporter License
 Residual Waste Permit
 Other _____
 (specify)

FORM HW-C

B. General Information Regarding "Related Parties"

1. **Applicants which are a corporation or a division of a corporation**, provide the following information:
 - a. The principal shareholders or stockholders who own, hold, or control stock of five percent (5%) or more of a publicly held corporation or ten percent (10%) or more of a privately held corporation.
The Vanguard Group - 8.44%, BlackRock, Inc. - 6.70%, State Street Corporation - 6.05%
 - b. State the names, principal places of business and taxpayer ID numbers of all domestic and foreign parent corporations (including ultimate parent corporations), and all domestic and foreign subsidiary corporations of the applicant, as well as the subsidiary corporations of the ultimate parent corporation. Include unincorporated divisions and private corporations. A diagram of corporate structure may be provided to illustrate corporate relationships.
See Appendix A and Appendix B
 - c. List all principals of the corporation that have also been principals of other corporations which have committed any violation of the Environmental Protection Acts. (See Instructions, Items 2 and 6.)
N/A
2. Provide the names and addresses of all principals, corporate officers, general and limited partners, directors, other persons performing a function similar to a director, and other persons or related parties of the applicant (see Instructions, Items 4 and 5). The relationship to the applicant must be clearly described.
See Appendix A
3. Provide the names and addresses, or IRS tax identification numbers¹ and affiliation of other persons or related parties having or exercising control over any aspect of the proposed facility or activity that is regulated by the Department, including but not limited to, associates, agents, contractors, subcontractors, and property owners.
N/A
4. Provide the names and addresses of all owners of record of surface and subsurface areas within and contiguous to the proposed permit area. (Not applicable to transporter license applicants.)
See Appendix C
5. Provide the names and addresses of all holders of record to a leasehold interest of surface and subsurface areas within and contiguous to the proposed permit area.
See Appendix C
6. If the applicant, or other related party to the applicant, has a beneficial interest in, or otherwise manages or controls any other person, municipality or other related party (as described in Sections A and B) engaged in the business of solid waste collection, transportation, storage, processing, treatment, or disposal, provide the following information:
 - a. The name, address and tax identification number or employer identification number of the corporation, other person, municipality, or other entity, in which the applicant or other related party has a beneficial interest, manages, or controls as described above.

N/A
 - b. The nature of the relationship or participation with the corporation, other person, municipality, or other related party.

N/A

¹ Failure to provide all applicable numbers may delay processing of the application.

FORM HW-C

C. Specific information Regarding the Applicant and Its Related Parties

1. List the name and location of all of the **applicant's** and **related party's places of business and terminals** where municipal, residual and/or hazardous waste activities are conducted. Such activities include, but are not limited to generation, processing, collection, transportation and storage, treatment or disposal of solid waste, except that locations that generate only municipal waste need not be listed.

See Appendix D

2. List all **permits or licenses issued** by the Department or any other state or federal agency under the Environmental Protection Acts to the applicant or any other persons or related parties identified in Sections A or B, that are currently in effect or have been in effect at any time in the ten years previous to the date on which this form is notarized. This list is to include the type of permit or license, permit or license number, location, address, issuance date and expiration date.

See Appendix E

3. List all **permit or license denials** issued by the Department or any other state or federal agency under the Environmental Protection Acts to the applicant or any other person or related party identified in Section A or B, within ten years previous to the date on which this form is notarized. Include the type of permit or license, permit or license number, location, denial date and reason for denial.

N/A

4. List all persons or related parties identified in Sections A or B which have filed for or been discharged from **bankruptcy** within 10 years previous to the date on which this form is notarized. Specify the circumstances of bankruptcy including those for which the debtor sought to abandon property or to be discharged from any environmental liability subject to the Environmental Protection Acts. Include the name of the bankruptcy court, docket number and description and location of any property involved.

N/A

D. Compliance Background:

(Note: Copies of specific documents must be made available to the Department upon its request)

FORM HW-C

Compliance History: See Appendix F

List all "**Enforcement Actions**" issued by the Department or any other state or federal or county agency to the applicant or those persons or related parties identified anywhere in response to Sections A, B or C using the following format grouped by state and location in chronological order.

Date	Location	Permit/ License/ EPA ID #	Issuing Agency	Type of Action	Nature of Violation	Disposition	Dollar Amount of Penalty
------	----------	---------------------------------	-------------------	----------------------	------------------------	-------------	--------------------------------

Enforcement actions include but are not limited to:

All **notices of violation (NOVs)**, issued by any regulatory agency to the applicant or those persons or related parties identified anywhere in Sections A, B or C concerning the Environmental Protection Acts, or any other environmental statute, regulation or ordinance.

All **administrative orders, civil penalties, permit or license suspensions/revocations, bond forfeiture actions, and civil penalty actions** adjudicated by any judicial body against the applicant or those persons or related parties identified anywhere in Sections A, B or C concerning the Environmental Protection Acts, or a regulation or order or a condition of a permit or license.

All **consent orders, consent adjudications, consent decrees or monetary settlements (settlement agreements, letter agreements, settlement letters or consent assessments)** between the applicant or those persons or related parties identified anywhere in Sections A, B or C and any state, federal or county agency regarding the Environmental Protection Acts, or any other environmental statute, regulations or ordinance.

All **court proceedings** in which those persons or related parties identified anywhere in Sections A, B or C have been involved in relation to the Environmental Protection Acts.

All **summary, misdemeanor, or felony convictions, or pleas of guilty or no contest** that have been obtained against the applicant or those persons or related parties identified anywhere in Sections A, B or C, pursuant to the Environmental Protection Acts, or for any acts involving the generation, storage, treatment, transportation, processing, or disposal of municipal, residual or hazardous waste.

For all persons and municipalities identified in Section A, B or C, indicate all violations committed and any subsequent enforcement actions taken regarding the facility or activity not previously listed in this section, concerning the Environmental Protection Acts.

State the reasons for suspension, revocation, or denial of any permit/permit application or license/license application filed by the applicant or any related party concerning the Environmental Protection Acts. Provide the date, location and nature of the violations, type of action, issuing agency, dollar amount of any monetary penalty associated with the action and permit, license, EPA ID# or other identifying number if applicable.

FORM HW-C

I hereby certify that I have the authority to respond to the above questions on behalf of the applicant, and that the information provided herein is true and correct to the best of my knowledge, information and belief.

Commonwealth of Pennsylvania
County of Allegheny

[Signature]
(Signature)

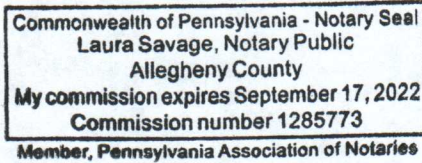
Name: Branden Weimer
(Print or Type Name)

Title: Senior Permitting Advisor
(Print or Type Title)

Sworn to and subscribed before me this

27th day of April,

2020.
Laura Savage
Notary Public



Randall G. York
(Signature)

Name: Randall G. York, P.E., BCEE
(Print or Type Name)

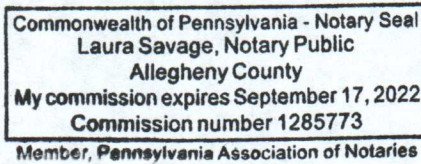
Title: Regulatory Compliance & Permitting Manager
(Print or Type Title)

Commonwealth of Pennsylvania
County of Allegheny

Sworn to and subscribed before me this

27th day of April,

2020.
Laura Savage
Notary Public



Attach copy
of Articles of Incorporation

(For Corporations, see the Instructions, Item 9, regarding signatures and submission of Articles of Incorporation.)

Chevron Appalachia, LLC

Date
04/23/2020

Company Profile

Tax ID
20-8243540

Main Details

Name: Chevron Appalachia, LLC
Country: United States
Region: Pennsylvania
Tax ID: 20-8243540
Incorporated: 11/14/2006
Company Type: Limited Liability Company
Company Status: Active

Primary Addresses

Headquarters: 6001 Bollinger Canyon Road, San Ramon CA 94583-2324, United States
Registered Office: 2595 Interstate Drive, Suite 103, Harrisburg PA 17110, United States
Main Office: 700 Cherrington Parkway, Coraopolis PA 15108, United States

General Information

CCN No.: 3583
Opco No.: 91
Annual Meeting Date: February
Annual Review Date:

Purpose: Formerly Atlas America LLC, which was acquired as part of the Atlas merger effective February 17, 2011. Atlas America Inc., the Pennsylvania corporation (not the Delaware corporation, which is now Chevron Northeast Upstream LLC), merged with Atlas America LLC. Shale interests in Pennsylvania. Effective April 20, 2010, owns 60% of the Atlas-Reliance Marcellus Joint Venture Partnership.

Past Names

From Date	Up To Date	Name
11/14/2006	04/20/2011	Atlas America, LLC

Past Addresses

Main Office	
Up To Date	Address
08/01/2015	1550 Coraopolis Heights Rd., 2nd Floor, P.O. Box 611, Moon Township PA 15108, United States

Registered Office	
Up To Date	Address
03/29/2011	1521 Locust Street 4th floor, Philadelphia PA 19102, United States
03/29/2011	1550 Corapolis Heights Rd., 2nd Floor, Moon Township PA 15108, United States
Unknown	2595 Interstate Drive, Suite 103, Harrisburg PA 17110, United States

Appointments

Board Positions				
Name	QuickRef	Position	Appointed	Job Title
Green, Stephen W.	GREEN-SW	Director	03/18/2019	Director
Olson, Stacey Guillot	OLSON-SG	Director	06/15/2016	Director
Reilly, M. T.	REILLY-TM	Director	08/01/2019	Director

Officers				
Name	QuickRef	Position	Appointed	Job Title
Antebi, Paul R.	ANTEBI-PR	Officer	02/22/2017	Tax Officer
Benson, Eric A.	BENSON-E	Officer	07/31/2016	Vice President and Treasurer
Chaudhri, Masroor M.	CHAUDHR-MM	Officer	05/01/2018	Vice President
Chen, Vincent Y.	CHEN-VY	Officer	04/01/2018	Acquisition and Divestiture Officer
Clutter, William T.	CLUTTER-WT	Officer	02/01/2016	Assistant Treasurer
Cooper, Keith	COOPER-K	Officer	04/01/2020	Tax Officer
Crabtree, Dwight	CRABTREE-D	Officer	08/01/2016	Finance Officer
Endries, Kari H.	ENDRIES-KH	Officer	02/18/2011	Vice President and Secretary
Kokolis, George P.	GKOK	Officer	02/20/2013	Acquisition and Divestiture Officer
Lee, Gina K.	LEE-G	Officer	12/05/2019	Assistant Secretary
Lee, Troy S.	LEE-TS	Officer	02/01/2016	Tax Officer
Morby, Gregory C.	MORBY-GC	Officer	02/20/2013	Production Services Officer
Munn, Ronald K.	MUNN-RK	Officer	07/31/2014	Land Management Officer

Chevron Appalachia, LLC

Date
04/23/2020

Company Profile

Tax ID
20-8243540

Officers

Name	QuickRef	Position	Appointed	Job Title
Olson, Stacey Guillot	OLSON-SG	Officer	06/15/2016	President
Phipps, John	PHIPPS-J	Officer	06/01/2018	Acquisition and Divestiture Officer
Swiger, John W.	SWIGER-JW	Officer	12/05/2019	Assistant Treasurer
Tiwana, Harpreet K.	TIWANA-HK	Officer	12/05/2019	Assistant Secretary
Webre, Trent D.	WEBRE-TD	Officer	07/01/2017	Land Management Officer
Woody, Michael W.	WOODY-MW	Officer	02/18/2011	Assistant Secretary

Corporate Relationships (Legal Voting Structure)

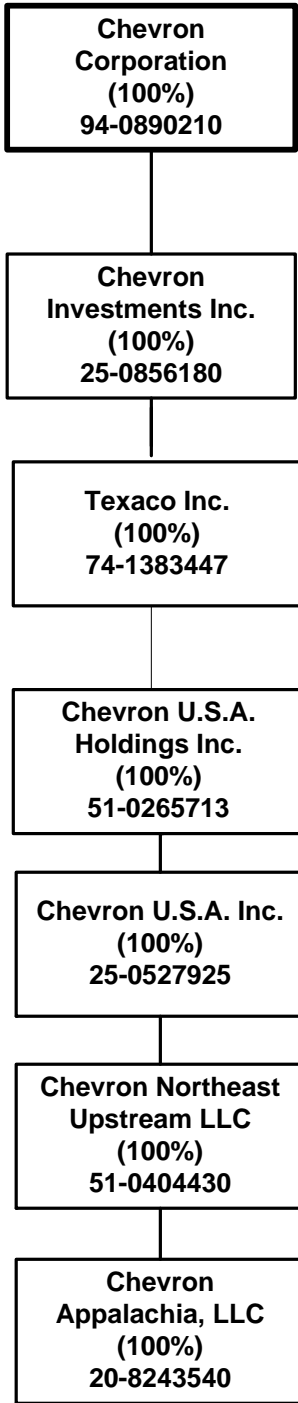
From	To	%	From	Description	Control By
Chevron Northeast Upstream LLC (Owner Company)	Chevron Appalachia, LLC (Subsidiary Company)	100.0000%	12/31/2013	LLC membership interest	Other

Registration in Jurisdiction

Country	State/Province/Region	Registration Date	Registration End Date	Renewal Due	Tax ID/Reg No/Corp No	Notes
United States	Pennsylvania	06/29/1998			3687946	
United States	Ohio	01/24/2001			1673893	
United States	Tennessee	03/05/2007				
United States	West Virginia	03/08/2007			92094	
United States	Kentucky	12/30/2008			0720330	
United States	New York	01/04/2011				
United States	Maryland	06/29/2011			Z14183149	

Appendix B

**CHEVRON APPALACHIA LLC
OWNERSHIP STRUCTURE
April 23, 2020**



Chevron Corporation owns over 900 subsidiaries and affiliates, too many to fit on a chart. Chevron Appalachia, LLC has no subsidiaries.

Appendix C

4. Jonathan J & Susan P Orbash 423 Telegraph Rd East Millsboro, PA 15433

5. Atlas Energy 1845 Walnut St, Suite 1000 Philadelphia, PA 19103

Chevron Appalachia, LLC 700 Cherrington Parkway Coraopolis, PA 15108

Reliance Marcellus, LLC 2000 W. Sam Houston Parkway S., Suite 700 Houston, TX 77042

Laurel Mountain Midstream Operating, LLC 1550 Coraopolis Heights Rd 2nd Floor Moon Twp, PA 15108

West Penn Power Co. 800 Cabin Hill Dr Greensburg, PA 15601

Columbia Gas of Pennsylvania, Inc. 121 Champion Way, Suite 100 Canonsburg, PA 15317

Southwestern Pennsylvania Water Authority 1442 Jefferson Road, Jefferson, PA 15334

Appendix D

04/21/2020

Well Pad Name	Township	County	State
Addleman Pad A	West Bethlehem	Washington	Pennsylvania
Avanti Pad A	Stewart	Fayette	Pennsylvania
Baer Pad A	Redstone	Fayette	Pennsylvania
Baily Pad A	Luzerne	Fayette	Pennsylvania
Balazick Pad A	Amwell	Washington	Pennsylvania
Bardall Pad A	Washington	Marshall	West Virginia
Basara Pad A	Sewickley	Westmoreland	Pennsylvania
Basista/Dermotta Pad A	Sewickley	Westmoreland	Pennsylvania
Basista/Dermotta Pad B	Sewickley	Westmoreland	Pennsylvania
Bedilion Pad A	Franklin	Greene	Pennsylvania
Bercosky Pad A	West Bethlehem	Washington	Pennsylvania
Bercosky Pad B	West Bethlehem	Washington	Pennsylvania
Berger Pad A	Clay	Marshall	West Virginia
Biddle Pad A	Cumberland	Greene	Pennsylvania
Bognar Pad A	Gilpin	Armstrong	Pennsylvania
Bondi Pad A	South Huntingdon	Westmoreland	Pennsylvania
Bowser Pad A	Jackson	Mercer	Pennsylvania
Brosius Pad A	Richland	Venango	Pennsylvania
Brunazzi Pad A	Deemston	Washington	Pennsylvania
Bruno Pad A	Franklin	Greene	Pennsylvania
Buday Unit Pad A	Cumberland	Greene	Pennsylvania
Burchianti Pad A	Greene	Greene	Pennsylvania
Burchianti Pad B	Monongahela	Greene	Pennsylvania
Burchianti Pad C	Monongahela	Greene	Pennsylvania
Buterbaugh Pad A	Green	Indiana	Pennsylvania
Cardine Pad A	Redstone	Fayette	Pennsylvania
Carmichael Pad A	Webster	Marshall	West Virginia
Caveney Pad A	Washington	Marshall	West Virginia
Cernuska Pad A	Jefferson	Greene	Pennsylvania
Cerullo Pad A	German	Fayette	Pennsylvania
Chico Pad A	Springhill	Fayette	Pennsylvania
Christofel Pad A	Jefferson	Fayette	Pennsylvania
Citro Pad A	Center	Greene	Pennsylvania
Cochran Pad A	Lower Tyrone	Fayette	Pennsylvania
Commonwealth Pad A	Greene	Greene	Pennsylvania
Commonwealth Pad B	Dunkard	Greene	Pennsylvania
Connellsville Sportsmens Association Pad A	Bullskin	Fayette	Pennsylvania
Conner Pad A	Clay	Marshall	West Virginia
Consol/USX Pad A	Cumberland	Greene	Pennsylvania
Consol/USX Pad B	Cumberland	Greene	Pennsylvania
Cook Pad A	Sewickley	Westmoreland	Pennsylvania
Cowden Pad A	Cross Creek	Washington	Pennsylvania
Cox Pad A	Cameron	Marshall	West Virginia
Craig Lash Pad A	Sewickley	Westmoreland	Pennsylvania
Crawford Pad A	Meade	Marshall	West Virginia
Croushore Pad A	German	Fayette	Pennsylvania

Appendix D

04/21/2020

Crow Pad A	Webster	Marshall	West Virginia
Curry Pad A	Washington	Marshall	West Virginia
Davis Pad A	West St. Clair	Bedford	Pennsylvania
Dermotta Pad A	Sewickley	Westmoreland	Pennsylvania
Dicarolo Pad A	Luzerne	Fayette	Pennsylvania
Dick Pad A	Brush Valley	Indiana	Pennsylvania
Donahoo Pad A	West Bethlehem	Washington	Pennsylvania
Donley Pad A	Dunkard	Greene	Pennsylvania
Donley Pad B	Dunkard	Greene	Pennsylvania
Dumm Pad A	Pine	Indiana	Pennsylvania
Eckerd Pad A	Deemston	Washington	Pennsylvania
Edenborn/RGGS Pad B	German	Fayette	Pennsylvania
Elias Pad A	South Huntingdon	Westmoreland	Pennsylvania
Faverio Pad A	Redstone	Fayette	Pennsylvania
Fayette Beagle Club Unit Pad A	Washington	Fayette	Pennsylvania
Fay-Penn Pad A	Springhill	Fayette	Pennsylvania
FDS Pad A	German	Fayette	Pennsylvania
Fenchak Pad A	Buffington	Indiana	Pennsylvania
Francis Pad A	Clay	Marshall	West Virginia
Frankhouser Pad A	Luzerne	Fayette	Pennsylvania
Freeland Pad A	Clay	Marshall	West Virginia
Game Lands Pad A	Dunkard	Greene	Pennsylvania
Game Lands Pad B	Dunkard	Greene	Pennsylvania
Grant Pad A	Redstone	Fayette	Pennsylvania
Greenawalt Pad A	Sewickley	Westmoreland	Pennsylvania
Grimm Lumber Pad A	Union	Preston	West Virginia
Grooms Pad A	Franklin	Greene	Pennsylvania
Guardasoni Pad A	Sewickley	Westmoreland	Pennsylvania
Gurki Pad A	Sewickley	Westmoreland	Pennsylvania
Hall/Hogsett Pad A	Luzerne	Fayette	Pennsylvania
Hambleton Pad A	West Bethlehem	Washington	Pennsylvania
Hamborsky Pad A	Bullskin	Fayette	Pennsylvania
Hart Pad A	Cumberland	Greene	Pennsylvania
Hart Pad B	Washington	Marshall	West Virginia
Hartley Pad A	German	Fayette	Pennsylvania
Hazlett Pad A	Union	Marshall	West Virginia
Headlee Pad A	Cumberland	Greene	Pennsylvania
Hendrickson Pad A	Dunkard	Greene	Pennsylvania
Hepler Pad A	South Huntingdon	Westmoreland	Pennsylvania
Hepler Pad B	Richland	Venango	Pennsylvania
Hepler Farm Pad A	South Huntingdon	Westmoreland	Pennsylvania
Herriott Pad A	German	Fayette	Pennsylvania
Hicks Pad A	Clay	Marshall	West Virginia
Hieronimus Charles Pad A	Cameron	Marshall	West Virginia
Hindman Pad A	Washington	Butler	Pennsylvania
Hines Pad A	Washington	Marshall	West Virginia
Hoehn Pad A	Luzerne	Fayette	Pennsylvania

Appendix D

04/21/2020

Hostutler Pad A	Clay	Marshall	West Virginia
Howe Pad A	Luzerne	Fayette	Pennsylvania
Hurt Pad A	East Lackawannock	Mercer	Pennsylvania
Huss Pad A	Sewickley	Westmoreland	Pennsylvania
Jackson Farms Pad A	Redstone	Fayette	Pennsylvania
Jackson Farms Pad B	Menallen	Fayette	Pennsylvania
Jarek Pad A	Cumberland	Greene	Pennsylvania
Johnson Pad A	Greene	Greene	Pennsylvania
Jordan Pad A	Dunkard	Greene	Pennsylvania
Jordan Pad B	Dunkard	Greene	Pennsylvania
JP Smith Pad A	South Huntingdon	Westmoreland	Pennsylvania
Kaminsky Pad A	Sewickley	Westmoreland	Pennsylvania
Kieffer Pad A	Jefferson	Greene	Pennsylvania
Kikta Pad A	North Union	Fayette	Pennsylvania
Kirchner Pad A	German	Fayette	Pennsylvania
Kisner Pad A	South Huntingdon	Westmoreland	Pennsylvania
Knight Pad A	Springhill	Fayette	Pennsylvania
Kovach Pad B	German	Fayette	Pennsylvania
Kurutz Pad A	Dunbar	Fayette	Pennsylvania
Lanco Pad A	Dunkard	Greene	Pennsylvania
Lanco Pad B	Dunkard	Greene	Pennsylvania
Lanco Pad C	Grant	Preston	West Virginia
Latkanich Pad A	Deemston	Washington	Pennsylvania
Lee Pad A	Redstone	Fayette	Pennsylvania
Lester Pad A	Jefferson	Fayette	Pennsylvania
Lester Pad B	Jefferson	Fayette	Pennsylvania
Liberty Land Pad A	Dunkard	Greene	Pennsylvania
Longworth Pad A	Clay	Marshall	West Virginia
Martin Pad A	Franklin	Fayette	Pennsylvania
Marynchak Pad A	Centerville	Washington	Pennsylvania
Mason Pad A	Franklin	Marshall	West Virginia
Matty/Momyer Pad A	South Huntingdon	Westmoreland	Pennsylvania
Mccullough Pad A	Jefferson	Mercer	Pennsylvania
Mclain Pad A	Washington	Marshall	West Virginia
McVicker Well Pad	West St. Clair	Bedford	Pennsylvania
Milesky Pad A	Center	Greene	Pennsylvania
Miller Pad A	Dunkard	Greene	Pennsylvania
Milyo Pad A	Washington	Clarion	Pennsylvania
Mutnansky Pad A	North Union	Fayette	Pennsylvania
Nalevanko Pad A	Hempfield	Westmoreland	Pennsylvania
National Mines Pad A	Luzerne	Fayette	Pennsylvania
Neehouse Pad A	Webster	Marshall	West Virginia
Nied Pad A	Greene	Greene	Pennsylvania
Otte Pad A	Washington	Marshall	West Virginia
PBG Smith Pad A	Dunkard	Greene	Pennsylvania
Plassio Pad A	Sewickley	Westmoreland	Pennsylvania
PMG Raby Pad A	Adams	Cambria	Pennsylvania

Appendix D

04/21/2020

Porter Pad B	Luzerne	Fayette	Pennsylvania
Porter/Naylor Pad A	Perry	Fayette	Pennsylvania
Prendergast Pad A	Cameron	Marshall	West Virginia
Pritts Pad A	Lower Tyrone	Fayette	Pennsylvania
Rankin Pad A	Morgan	Greene	Pennsylvania
Reamer Pad A	South Huntingdon	Westmoreland	Pennsylvania
Rejiss Pad A	Nicholson	Fayette	Pennsylvania
Rice Pad A	Gilmore	Greene	Pennsylvania
Rine Pad A	Washington	Marshall	West Virginia
Ritter Pad A	Redstone	Fayette	Pennsylvania
Rosa Pad A	Franklin	Fayette	Pennsylvania
Rosul Pad A	Jefferson	Fayette	Pennsylvania
Rosul Pad B	Washington	Fayette	Pennsylvania
Roth Pad A	Union	Marshall	Pennsylvania
Sabatine-Smouse Pad A	South Huntingdon	Westmoreland	Pennsylvania
Sanfilippo Pad A	Redstone	Fayette	Pennsylvania
Sanfilippo Pad B	Redstone	Fayette	Pennsylvania
Sargent Pad A	West Bethlehem	Washington	Pennsylvania
Sheperd Pad A	Redstone	Fayette	Pennsylvania
Shoaf Pad A	Sewickley	Westmoreland	Pennsylvania
Siburt Pad A	Washington	Marshall	West Virginia
Sickle Pad A	Washington	Fayette	Pennsylvania
Siegel Pad A	Washington	Fayette	Pennsylvania
Sinay Pad A	Sewickley	Westmoreland	Pennsylvania
Skovran Pad A	Redstone	Fayette	Pennsylvania
Skovran Pad B	Redstone	Fayette	Pennsylvania
Skovran Pad C	Redstone	Fayette	Pennsylvania
Sleith Pad A	South Huntingdon	Westmoreland	Pennsylvania
Snapp-Teslovich Pad A	Luzerne	Fayette	Pennsylvania
Spring Church Pad A	South Bend	Armstrong	Pennsylvania
Starcovic Pad A	Cameron	Marshall	West Virginia
Steiner Pad A	South Huntingdon	Westmoreland	Pennsylvania
Stewart Pad A	Luzerne	Fayette	Pennsylvania
Taylor Pad B	Clay	Marshall	West Virginia
Taylor Pad C	Clay	Marshall	West Virginia
Thomas Pad A	Conemaugh	Somerset	Pennsylvania
Vrona Pad A	Cumberland	Greene	Pennsylvania
Wilson Pad A	South Huntingdon	Westmoreland	Pennsylvania
Witzgall Pad A	Washington	Marshall	West Virginia
Woods Pad A	Clay	Marshall	West Virginia
Yanosky Pad A	Deemston	Washington	Pennsylvania
Yareck Pad A	Jefferson	Greene	Pennsylvania
Yoder Pad A	Luzerne	Fayette	Pennsylvania
Zalac Pad A	German	Fayette	Pennsylvania
Zien Pad A	Webster	Marshall	West Virginia
Zorosak Pad A	Sewickley	Westmoreland	Pennsylvania

Project Name	Permit Type	Permit Number	State	County	Township	Regulatory Agen	Permit Issued D	Permit Expiration Date	911 Address
Addleman 1HA	Drill Permit	37-125-24241	PA	Washington	West Bethlehem	PA DEP SWRO	7/19/2010	7/19/2011	51 Valley View Drive, Marianna, PA 15345
Addleman Pad A	ESCGP 1	ESX09-125-0060	PA	Washington	West Bethlehem	PA DEP SWRO	7/26/2010	7/25/2015	51 Valley View Drive, Marianna, PA 15345
Addleman Pad A	GP5 – Utility Crossing/Temp Access Road	GP056310897	PA	Washington	West Bethlehem	PA DEP SWRO	11/30/10		51 Valley View Drive, Marianna, PA 15345
Addleman Pad A	GP8 – Utility Crossing/Temp Access Road	GP086310898	PA	Washington	West Bethlehem	PA DEP SWRO	11/30/2010	11/30/2011	51 Valley View Drive, Marianna, PA 15345
Allison Pad A	ESCGP 1	ESX11-063-0009	PA	Indiana	East Wheatfield	PA DEP SWRO	9/12/2011	9/10/2016	178 Allison Road, Seward, PA 15954
Angeline Pad A	ESCGP 1	ESX10-051-0003	PA	Fayette	Redstone	PA DEP SWRO	2/3/2010	2/2/2015	1281 Grindstone Road, Grindstone, PA 15442
Avanti 1	OG 0071b	1174721	PA	Fayette	Stewart	PA DEP SWRO	4/6/2017	N/A	500 Bell Grove Road, Ohiopyle, PA 15470
Baily Pad A	Stream Crossing	2013-1751	PA	Fayette	Luzerne	ACOE	12/12/2013	12/11/2018	245 Westbend Road, East Millsboro, PA 15433
Baily Pad A	USACE PASPGP 4	2013-1751	PA	Fayette	Luzerne	ACOE	12/12/2013		245 Westbend Road, East Millsboro, PA 15433
Baily Unit 10H	Drill Permit	37-051-24594-00	PA	Fayette	Luzerne	PA DEP SWRO	12/8/2014	12/8/2015	245 Westbend Road, East Millsboro, PA 15433
Baily Unit 11H	Drill Permit	37-051-24595-00	PA	Fayette	Luzerne	PA DEP SWRO	12/8/2014	12/8/2015	245 Westbend Road, East Millsboro, PA 15433
Baily Unit 12H	Drill Permit	37-051-24596-00	PA	Fayette	Luzerne	PA DEP SWRO	1/15/2015	1/15/2016	245 Westbend Road, East Millsboro, PA 15433
Baily Unit 13H	Drill Permit	37-051-24597-00	PA	Fayette	Luzerne	PA DEP SWRO	12/8/2014	12/8/2015	245 Westbend Road, East Millsboro, PA 15433
Baily Unit 14H	Drill Permit	37-051-24598-00	PA	Fayette	Luzerne	PA DEP SWRO	1/15/2015	1/15/2016	245 Westbend Road, East Millsboro, PA 15433
Baily Unit 15H	Drill Permit	37-051-24599-00	PA	Fayette	Luzerne	PA DEP SWRO	12/8/2014	12/8/2015	245 Westbend Road, East Millsboro, PA 15433
Baily Unit 16H	Drill Permit	37-051-24600-00	PA	Fayette	Luzerne	PA DEP SWRO	1/15/2015	1/15/2016	245 Westbend Road, East Millsboro, PA 15433
Baily Unit 17H	Drill Permit	37-051-24601-00	PA	Fayette	Luzerne	PA DEP SWRO	12/8/2014	12/8/2015	245 Westbend Road, East Millsboro, PA 15433
Baily Unit 8H	Drill Permit	37-051-24592-11	PA	Fayette	Luzerne	PA DEP SWRO	12/8/2014	12/8/2015	245 Westbend Road, East Millsboro, PA 15433
Baily Unit 8H	ESCGP 2	ESX13-051-0005	PA	Fayette	Luzerne	PA DEP NCRO	10/25/2013	10/24/2018	245 Westbend Road, East Millsboro, PA 15433
Baily Unit 9H	Drill Permit	37-051-24593-00	PA	Fayette	Luzerne	PA DEP SWRO	12/8/2014	12/8/2015	245 Westbend Road, East Millsboro, PA 15433
Balazick 9H	Drill Permit	37-125-23951	PA	Washington	Amwell	PA DEP SWRO	1/8/2010	1/8/2011	513 Ten Mile Road Amity, PA 15311
Barry Sandrock Pad A	ESCGP 1	ESX11-031-0027	PA	Clarion	Washington	PA DEP NWRO	12/1/2011	11/29/2016	No Address - Not Built
Basara 1	Drill Permit	37-129-28961	PA	Westmoreland	Sewickley	PA DEP SWRO	08/21/2019	08/20/2020	776 Lowber Road, Irwin, PA 15642
Basara 10H	Drill Permit	37-129-29023	PA	Westmoreland	Sewickley	PA DEP SWRO	08/21/2019	08/20/2020	776 Lowber Road, Irwin, PA 15642
Basara 2H	Drill Permit	37-129-29015	PA	Westmoreland	Sewickley	PA DEP SWRO	08/21/2019	08/20/2020	776 Lowber Road, Irwin, PA 15642
Basara 3H	Drill Permit	37-129-29016	PA	Westmoreland	Sewickley	PA DEP SWRO	08/21/2019	08/20/2020	776 Lowber Road, Irwin, PA 15642
Basara 4H	Drill Permit	37-129-29017	PA	Westmoreland	Sewickley	PA DEP SWRO	08/21/2019	08/20/2020	776 Lowber Road, Irwin, PA 15642
Basara 5H	Drill Permit	37-129-29018	PA	Westmoreland	Sewickley	PA DEP SWRO	08/21/2019	08/20/2020	776 Lowber Road, Irwin, PA 15642
Basara 6H	Drill Permit	37-129-29019	PA	Westmoreland	Sewickley	PA DEP SWRO	08/21/2019	08/20/2020	776 Lowber Road, Irwin, PA 15642
Basara 7H	Drill Permit	37-129-29021	PA	Westmoreland	Sewickley	PA DEP SWRO	08/21/2019	08/20/2020	776 Lowber Road, Irwin, PA 15642
Basara 8H	Drill Permit	37-129-29020	PA	Westmoreland	Sewickley	PA DEP SWRO	08/21/2019	08/20/2020	776 Lowber Road, Irwin, PA 15642
Basara 9H	Drill Permit	37-129-29022	PA	Westmoreland	Sewickley	PA DEP SWRO	08/21/2019	08/20/2020	776 Lowber Road, Irwin, PA 15642
Basara Pad A	ESCGP 2	ESX17-129-0005	PA	Westmoreland	Sewickley	PA DEP SWRO	5/25/2017	5/24/2022	776 Lowber Road, Irwin, PA 15642
Basara Pad A	OG 0071b	1214775 Air/Fluid	PA	Westmoreland	Sewickley	PA DEP SWRO	4/6/2018		776 Lowber Road, Irwin, PA 15642
Bashline 1H	Drill Permit	37-051-24552-00,01	PA	Fayette	Redstone	PA DEP SWRO	12/18/2012	12/18/2013	416 Royal Road New Salem, PA 15468
Bashline 2H	Drill Permit	37-051-24553	PA	Fayette	Redstone	PA DEP SWRO	12/18/2012	12/18/2013	416 Royal Road New Salem, PA 15468
Bashline 3H	Drill Permit	37-051-24554	PA	Fayette	Redstone	PA DEP SWRO	12/18/2012	12/18/2013	416 Royal Road New Salem, PA 15468

Project Name	Permit Type	Permit Number	State	County	Township	Regulatory Agen	Permit Issued D	Permit Expiration Date	911 Address
Bashline 4H	Drill Permit	37-051-24555	PA	Fayette	Redstone	PA DEP SWRO	12/18/2012	12/18/2013	416 Royal Road New Salem, PA 15468
Bashline Pad A	ESCGP 1	ESX11-051-0029	PA	Fayette	Redstone	PA DEP SWRO	12/3/2012	12/2/2017	416 Royal Road New Salem, PA 15468
Basista / Dermotta 3H	Drill Permit	37-129-28558	PA	Westmoreland	Sewickley	PA DEP SWRO	4/1/2011	3/31/2012	369 Brunazzi Road, Irwin, PA 15642
Basista / Dermotta 4H	Drill Permit	37-129-28559	PA	Westmoreland	Sewickley	PA DEP SWRO	4/1/2011	3/31/2012	369 Brunazzi Road, Irwin, PA 15642
BASISTA / DERMOTTA 5H	Drill Permit	37-129-28775-00-02	PA	Westmoreland	Sewickley	PA DEP SWRO	04/03/2019	04/02/2020	369 Brunazzi Road, Irwin, PA 15642
BASISTA / DERMOTTA 6H	Drill Permit	37-129-28776-00-02	PA	Westmoreland	Sewickley	PA DEP SWRO	04/03/2019	04/02/2020	369 Brunazzi Road, Irwin, PA 15642
BASISTA / DERMOTTA 7H	Drill Permit	37-129-28777	PA	Westmoreland	Sewickley	PA DEP SWRO	7/26/2017	7/26/2018	369 Brunazzi Road, Irwin, PA 15642
Basista Dermotta Pad	ESCGP 1	ESX10-129-0040	PA	Westmoreland	Sewickley	PA DEP SWRO	1/26/2011	1/25/2016	369 Brunazzi Road, Irwin, PA 15642
Basista/Dermotta 8H	Drill Permit	37-129-28856	PA	Westmoreland	Sewickley	PA DEP SWRO	7/26/2013	7/26/2014	369 Brunazzi Road, Irwin, PA 15642
Basista/Dermotta 9H	Drill Permit	37-129-28857	PA	Westmoreland	Sewickley	PA DEP SWRO	7/26/2013	7/26/2014	369 Brunazzi Road, Irwin, PA 15642
Bedillion Pad A	ESCGP 2	ESX13-059-0062	PA	Greene	Franklin	PA DEP NCRO	12/19/2013	12/18/2018	565 Valley Farm Dr., Waynesburg, PA 15370
Bedillion Pad A	GP5 – Utility Crossing/Temp Access Road	GP05300714024	PA	Greene	Franklin	PA DEP SWRO	08/19/14		565 Valley Farm Dr., Waynesburg, PA 15370
Bedillion Pad A	GP8 – Utility Crossing/Temp Access Road	GP08300714023	PA	Greene	Franklin	PA DEP SWRO	8/19/2014	8/19/2015	565 Valley Farm Dr., Waynesburg, PA 15370
Bedillion Salesline	ESCGP 2	ESX13-059-0055	PA	Greene	Franklin	PA DEP SWRO	12/18/2014	12/17/2019	565 Valley Farm Dr., Waynesburg, PA 15370
Bedillion Unit 2H	Drill Permit	37-059-26291-00	PA	Greene	Franklin	PA DEP SWRO	11/22/2013	11/22/2014	565 Valley Farm Dr., Waynesburg, PA 15370
Bedillion Unit 3H	Drill Permit	37-059-26292-00	PA	Greene	Franklin	PA DEP SWRO	11/22/2013	11/22/2014	565 Valley Farm Dr., Waynesburg, PA 15370
Bedillion Unit 4H	Drill Permit	37-059-26293-00	PA	Greene	Franklin	PA DEP SWRO	11/22/2013	11/22/2014	565 Valley Farm Dr., Waynesburg, PA 15370
Bedillion Unit 5H	Drill Permit	37-059-26294-00	PA	Greene	Franklin	PA DEP SWRO	11/22/2013	11/22/2014	565 Valley Farm Dr., Waynesburg, PA 15370
Bedillion Unit 1H	Drill Permit	37-059-26290-00	PA	Greene	Franklin	PA DEP SWRO	11/22/2013	11/22/2014	565 Valley Farm Dr., Waynesburg, PA 15370
Bercosky 10H	Drill Permit	37-125-24622	PA	Washington	West Bethlehem	PA DEP SWRO	11/21/2011	11/20/2012	1601 Lone Pine Road, Marianna, PA 15345
Bercosky 11H	Drill Permit	37-125-24623	PA	Washington	West Bethlehem	PA DEP SWRO	11/21/2011	11/20/2012	1601 Lone Pine Road, Marianna, PA 15345
Bercosky 5H	Drill Permit	37-125-24619	PA	Washington	West Bethlehem	PA DEP SWRO	8/3/2010	8/3/2011	1601 Lone Pine Road, Marianna, PA 15345
Bercosky 6H	Drill Permit	37-125-24620	PA	Washington	West Bethlehem	PA DEP SWRO	8/3/2010	8/3/2011	1601 Lone Pine Road, Marianna, PA 15345
Bercosky 7H	Drill Permit	37-125-24621	PA	Washington	West Bethlehem	PA DEP SWRO	8/3/2010	8/3/2011	1601 Lone Pine Road, Marianna, PA 15345
Bercosky 8H	Drill Permit	37-125-24255	PA	Washington	West Bethlehem	PA DEP SWRO	8/3/2010	8/3/2011	1601 Lone Pine Road, Marianna, PA 15345
Bercosky 9H	Drill Permit	37-125-24256	PA	Washington	West Bethlehem	PA DEP SWRO	8/3/2010	8/3/2011	1601 Lone Pine Road, Marianna, PA 15345
Bercosky Pad 8H-9H	ESCGP 1	ESX10-125-0056	PA	Washington	West Bethlehem	PA DEP SWRO	10/19/2011	10/17/2016	1601 Lone Pine Road, Marianna, PA 15345
Berger	Multi Sector	WV/NPDES WV0111457	WV	Marshall	Clay	WVDEP	7/15/2016	2/28/2019	2860 Roberts Ridge Road, Moundsville, WV 26041
Berger 10H	Drill Permit	47-051-01709	WV	Marshall	Clay	WVDEP	2/26/2014	2/26/2016	2860 Roberts Ridge Road, Moundsville, WV 26041
Berger 1H	Drill Permit	47-051-01703	WV	Marshall	Clay	WVDEP	2/26/2014	2/26/2016	2860 Roberts Ridge Road, Moundsville, WV 26041
Berger 3H	Drill Permit	47-051-01725	WV	Marshall	Clay	WVDEP	5/27/2014	5/26/2016	2860 Roberts Ridge Road, Moundsville, WV 26041
Berger 4H	Drill Permit	47-051-01704	WV	Marshall	Clay	WVDEP	2/26/2014	2/26/2016	2860 Roberts Ridge Road, Moundsville, WV 26041
Berger 5H	Drill Permit	47-051-01705	WV	Marshall	Clay	WVDEP	2/26/2014	2/26/2016	2860 Roberts Ridge Road, Moundsville, WV 26041
Berger 6H	Drill Permit	47-051-01706	WV	Marshall	Clay	WVDEP	2/26/2014	2/26/2016	2860 Roberts Ridge Road, Moundsville, WV 26041
Berger 7H	Drill Permit	47-051-01726	WV	Marshall	Clay	WVDEP	5/28/2014	5/27/2016	2860 Roberts Ridge Road, Moundsville, WV 26041
Berger 8H	Drill Permit	47-051-01707	WV	Marshall	Clay	WVDEP	2/26/2014	2/26/2016	2860 Roberts Ridge Road, Moundsville, WV 26041
Berger 9H	Drill Permit	47-051-01708	WV	Marshall	Clay	WVDEP	2/26/2014	2/26/2016	2860 Roberts Ridge Road, Moundsville, WV 26041
Biddle 1	Drill Permit	37-059-26937-00-00	PA	Greene	Cumberland	PA DEP SWRO	8/4/2015	8/4/2016	379 Crucible Road, Rices Landing, PA 15357
Biddle Pad A	ESCGP 2	ESX14-059-0092	PA	Greene	Cumberland	PA DEP SWRO	9/22/2015	9/20/2020	379 Crucible Road, Rices Landing, PA 15357
Binns Pad A	ESCGP 1	ESX11-125-0061	PA	Washington	Centerville	PA DEP SWRO	8/2/2011	8/1/2016	No Address - Not Built
Bognar 1H	Drill Permit	37-005-31101-00,01	PA	Armstrong	Gilpin	PA DEP SWRO	10/25/2012	10/25/2013	535 Schenley Road, Leechburg, PA 15656
Bognar Pad A	ESCGP 1	ESX12-005-0010	PA	Armstrong	Gilpin	PA DEP SWRO	9/13/2012	9/12/2017	535 Schenley Road, Leechburg, PA 15656
Bondi Pad A	ESCGP 2	ESX12-129-0020	PA	Westmoreland	South Huntingdon	PA DEP SWRO	12/24/2013	12/23/2018	642 Mt. Pleasant Road, West Newton, PA 15089

Project Name	Permit Type	Permit Number	State	County	Township	Regulatory Agency	Permit Issued Date	Permit Expiration Date	911 Address
Bondi Pad A	GP5 – Utility Crossing/Temp Access Road	GP05650715-001	PA	Westmoreland	South Huntingdon	PA DEP SWRO	03/17/15		642 Mt. Pleasant Road, West Newton, PA 15089
Bondi Pad A	GP8 – Utility Crossing/Temp Access Road	GP08650715-001	PA	Westmoreland	South Huntingdon	PA DEP SWRO	3/17/2015	3/16/2016	642 Mt. Pleasant Road, West Newton, PA 15089
Bondi Salesline	ESCGP 2	ESX12-129-0002	PA	Westmoreland	South Huntingdon	PA DEP SWRO	4/9/2015	4/8/2020	642 Mt. Pleasant Road, West Newton, PA 15089
Bondi Unit 1H	Drill Permit	37-129-28860	PA	Westmoreland	South Huntingdon	PA DEP SWRO	10/18/2013	10/18/2014	642 Mt. Pleasant Road, West Newton, PA 15089
Bondi Unit 2H	Drill Permit	37-129-28861	PA	Westmoreland	South Huntingdon	PA DEP SWRO	10/18/2013	10/18/2014	642 Mt. Pleasant Road, West Newton, PA 15089
Bondi Unit 3H	Drill Permit	37-129-28862	PA	Westmoreland	South Huntingdon	PA DEP SWRO	10/18/2013	10/18/2014	642 Mt. Pleasant Road, West Newton, PA 15089
Bondi Unit 4H	Drill Permit	37-129-28863	PA	Westmoreland	South Huntingdon	PA DEP SWRO	10/18/2013	10/18/2014	642 Mt. Pleasant Road, West Newton, PA 15089
Bowser 2H	Drill Permit	37-085-24685-00-00; 01-00	PA	Mercer	Jackson	PA DEP NWRO	2/19/2014	2/19/2015	229 Hosack Road, Jackson Center, PA 16133
Bowser 3H	Drill Permit	37-085-24686-00-00	PA	Mercer	Jackson	PA DEP NWRO	2/19/2014	2/19/2015	229 Hosack Road, Jackson Center, PA 16133
Bowser Pad A	ESCGP 2	ESX14-085-0001	PA	Mercer	Jackson	PA DEP NWRO	2/20/2014	2/19/2019	229 Hosack Road, Jackson Center, PA 16133
Brisius 6H	Drill Permit	37-121-45630-00-00	PA	Venango	Richland	PA DEP NWRO	3/24/2014	3/25/2015	5065 Bell Road, Emlenton, PA 16373
Brosius 1H	Drill Permit	37-121-45028-00,01	PA	Venango	Richland	PA DEP NWRO	11/8/2012	11/8/2013	5065 Bell Road, Emlenton, PA 16373
Brosius 2H	Drill Permit	37-121-45029	PA	Venango	Richland	PA DEP NWRO	11/8/2012	11/8/2013	5065 Bell Road, Emlenton, PA 16373
Brosius 3H	Drill Permit	37-121-45629-00-00	PA	Venango	Richland	PA DEP NWRO	3/25/2014	3/25/2015	5065 Bell Road, Emlenton, PA 16373
Brosius Pad A	ESCGP 1	ESX12-121-0011	PA	Venango	Richland	PA DEP NWRO	5/9/2012	5/8/2017	5065 Bell Road, Emlenton, PA 16373
Bruckner Pad A	ESCGP 2	ESX16-059-0012	PA	Greene	Jefferson	PA DEP SWRO	12/20/2016	12/19/2021	214 Valley View Road, Jefferson, PA 15344
Brunazzi 10H	Drill Permit	37-125-24878	PA	Washington	Deemston	PA DEP SWRO	12/17/2015	1/5/2017	121 Huffman Road, Fredericktown, PA 15333
Brunazzi 11H	Drill Permit	37-125-24879	PA	Washington	Deemston	PA DEP SWRO	2/28/2018	2/28/2019	121 Huffman Road, Fredericktown, PA 15333
Brunazzi 9H	Drill Permit	37-125-24877	PA	Washington	Deemston	PA DEP SWRO	12/17/2015	1/5/2017	121 Huffman Road, Fredericktown, PA 15333
Brunazzi Pad A	ESCGP 1	ESX11-125-0077	PA	Washington	Deemston	PA DEP SWRO	1/10/2017	10/25/2017	121 Huffman Road, Fredericktown, PA 15333
Bruno Pad A	ESCGP 1	ESX10-059-0064	PA	Greene	Franklin	PA DEP SWRO	9/9/2010	9/8/2015	893 Water Dam Road, Waynesburg, PA 15370
Bruno Unit 2H	Drill Permit	37-059-25561	PA	Greene	Franklin	PA DEP SWRO	8/17/2010	8/17/2011	893 Water Dam Road, Waynesburg, PA 15370
Bruno Unit 3H	Drill Permit	37-059-25562	PA	Greene	Franklin	PA DEP SWRO	8/17/2010	8/17/2011	893 Water Dam Road, Waynesburg, PA 15370
Buday Pad A	ESCGP 1	ESX10-059-0022	PA	Greene	Cumberland	PA DEP SWRO	5/27/2010	5/26/2015	412 North Eight Eight Road, Carmichaels, PA 15320
Buday Unit 11H	Drill Permit	37-059-25547	PA	Greene	Cumberland	PA DEP SWRO	7/28/2010	7/28/2011	412 North Eight Eight Road, Carmichaels, PA 15320
Buday Unit 8H	Drill Permit	37-059-25545	PA	Greene	Cumberland	PA DEP SWRO	7/27/2010	7/27/2011	412 North Eight Eight Road, Carmichaels, PA 15320
Burchianti 45-46-54 Pad	ESCGP 1	ESX09-059-0003	PA	Greene	Greene	PA DEP SWRO	4/22/2009	4/21/2014	1175 Ceylon Road, Carmichaels, PA 15320
Burchianti 45H	Drill Permit	37-059-25271	PA	Greene	Greene	PA DEP SWRO	7/30/2009	7/30/2010	1176 Ceylon Road, Carmichaels, PA 15320
Burchianti 46H	Drill Permit	37-059-25270	PA	Greene	Greene	PA DEP SWRO	7/24/2009	7/24/2010	1177 Ceylon Road, Carmichaels, PA 15320
Burchianti 54H	Drill Permit	37-059-25272	PA	Greene	Greene	PA DEP SWRO	7/28/2009	7/28/2010	1178 Ceylon Road, Carmichaels, PA 15320
Burchianti 60H	Drill Permit	37-059-25668	PA	Greene	Monongahela	PA DEP SWRO	11/22/2010	11/22/2011	310 Hartley Road, Greensboro, PA 15338
Burchianti 61H	Drill Permit	37-059-25600	PA	Greene	Monongahela	PA DEP SWRO	11/22/2010	11/22/2011	310 Hartley Road, Greensboro, PA 15338
Burchianti 62H	Drill Permit	37-059-25601	PA	Greene	Monongahela	PA DEP SWRO	11/22/2010	11/22/2011	310 Hartley Road, Greensboro, PA 15338
Burchianti 63H	Drill Permit	37-059-25602	PA	Greene	Monongahela	PA DEP SWRO	11/22/2010	11/22/2011	310 Hartley Road, Greensboro, PA 15338
Burchianti 64H	Drill Permit	37-059-25603	PA	Greene	Monongahela	PA DEP SWRO	11/22/2010	11/22/2011	310 Hartley Road, Greensboro, PA 15338
Burchianti Pad	ESCGP 2	ESX10-059-0078	PA	Greene	Monongahela	PA DEP SWRO	8/14/2014	8/13/2019	310 Hartley Road, Greensboro, PA 15338
Buterbaugh 10H	Drill Permit	37-063-37021	PA	Indiana	Green	PA DEP SWRO	1/10/2011	1/10/2012	3178 Cookport Road, Commodore, PA 15729
Buterbaugh 8H	Drill Permit	37-063-36859-D	PA	Indiana	Green	PA DEP SWRO	1/5/2011	1/5/2012	3178 Cookport Road, Commodore, PA 15729
Buterbaugh 9H	Drill Permit	37-063-37020	PA	Indiana	Green	PA DEP SWRO	1/10/2011	1/10/2012	3178 Cookport Road, Commodore, PA 15729
Buterbaugh Pad A	ESCGP 1	ESX11-063-0006	PA	Indiana	Green	PA DEP SWRO	7/6/2011	7/4/2016	3178 Cookport Road, Commodore, PA 15729
Buterbaugh Pad A	OG 0071a	1169792	PA	Indiana	Green	PA DEP SWRO	2/14/2017	N/A	3178 Cookport Road, Commodore, PA 15729
Cardine 5H	Drill Permit	37-051-24311	PA	Fayette	Redstone	PA DEP SWRO	1/5/2010	1/5/2011	198 Bunker Hill Road, New Salem, PA 15468
CARDINE 5H	OG 0071b	1169792	PA	Fayette	Redstone	PA DEP SWRO	2/23/2017	N/A	198 Bunker Hill Road, New Salem, PA 15468
Cardine 7H	Drill Permit	37-051-24313	PA	Fayette	Redstone	PA DEP SWRO	1/5/2010	1/5/2011	198 Bunker Hill Road, New Salem, PA 15468
CARDINE 7H	OG 0071b	1169792	PA	Fayette	Redstone	PA DEP SWRO	2/23/2017	N/A	198 Bunker Hill Road, New Salem, PA 15468
Cardine Pad A	ESCGP 1	ESX09-051-0040	PA	Fayette	Redstone	PA DEP SWRO	12/17/2009	12/16/2014	198 Bunker Hill Road, New Salem, PA 15468

Project Name	Permit Type	Permit Number	State	County	Township	Regulatory Agen	Permit Issued D	Permit Expiration Date	911 Address
Cauffiel Pad A	ESCGP 1	ESX11-063-0007	PA	Indiana	East Wheatfield	PA DEP SWRO	8/4/2011	8/2/2016	No Address - Not Built
Cernuska M01H	Drill Permit	37-059-27792	PA	Greene	Jefferson	PA DEP SWRO	07/15/2019	07/14/2020	159 Sharpnack Hollow Road, Jefferson, PA 15344
Cernuska M02H	Drill Permit	37-059-27793	PA	Greene	Jefferson	PA DEP SWRO	07/15/2019	07/14/2020	159 Sharpnack Hollow Road, Jefferson, PA 15344
Cernuska M03H	Drill Permit	37-059-27796	PA	Greene	Jefferson	PA DEP SWRO	07/15/2019	07/14/2020	159 Sharpnack Hollow Road, Jefferson, PA 15344
Cernuska M04H	Drill Permit	37-059-27798	PA	Greene	Jefferson	PA DEP SWRO	07/18/2019	07/17/2020	159 Sharpnack Hollow Road, Jefferson, PA 15344
Cernuska M05H	Drill Permit	37-059-27797	PA	Greene	Jefferson	PA DEP SWRO	07/19/2019	07/18/2020	159 Sharpnack Hollow Road, Jefferson, PA 15344
Cernuska M06H	Drill Permit	37-059-27794	PA	Greene	Jefferson	PA DEP SWRO	07/19/2019	07/18/2020	159 Sharpnack Hollow Road, Jefferson, PA 15344
Cernuska M07H	Drill Permit	37-059-27795	PA	Greene	Jefferson	PA DEP SWRO	07/19/2019	07/18/2020	159 Sharpnack Hollow Road, Jefferson, PA 15344
Cernuska M08V	Drill Permit	37-059-27799	PA	Greene	Jefferson	PA DEP SWRO	07/19/2019	07/18/2020	159 Sharpnack Hollow Road, Jefferson, PA 15344
Cernuska Pad A	ESCGP 2	ESX18-059-0006	PA	Greene	Jefferson	PA DEP SWRO	9/25/2018	9/24/2023	297 Gates Road, Adah, PA 15410
Cerullo 1	Drill Permit	37-051-24650	PA	Fayette	German	PA DEP SWRO	3/1/2018	3/1/2019	297 Gates Road, Adah, PA 15410
Cerullo M01H	Drill Permit	37-051-24693	PA	Fayette	German	PA DEP SWRO	03/19/2020	03/19/2021	297 Gates Road, Adah, PA 15410
Cerullo M02H	Drill Permit	37-051-24695	PA	Fayette	German	PA DEP SWRO	03/19/2020	03/19/2021	297 Gates Road, Adah, PA 15410
Cerullo M03H	Drill Permit	37-051-24692	PA	Fayette	German	PA DEP SWRO	03/19/2020	03/19/2021	297 Gates Road, Adah, PA 15410
Cerullo M04H	Drill Permit	37-051-24694	PA	Fayette	German	PA DEP SWRO	03/19/2020	03/19/2021	297 Gates Road, Adah, PA 15410
Cerullo M09H	Drill Permit	37-051-24690	PA	Fayette	German	PA DEP SWRO	03/19/2020	03/19/2021	297 Gates Road, Adah, PA 15410
Cerullo M10H	Drill Permit	37-051-24691	PA	Fayette	German	PA DEP SWRO	03/19/2020	03/19/2021	297 Gates Road, Adah, PA 15410
Cerullo M11H	Drill Permit	37-051-24696	PA	Fayette	German	PA DEP SWRO	03/19/2020	03/19/2021	297 Gates Road, Adah, PA 15410
Cerullo M12H	Drill Permit	37-051-24697	PA	Fayette	German	PA DEP SWRO	03/19/2020	03/19/2021	297 Gates Road, Adah, PA 15410
Cerullo Pad A	ESCGP 2	ESX18-051-0004	PA	Fayette	German	PA DEP SWRO	10/23/2018	10/22/2023	297 Gates Road, Adah, PA 15410
Chico Pad A	Stream Crossing	2012-1271	PA	Fayette	Springhill	ACOE	9/5/2012	9/4/2017	199 Lake Lynn Road, Lake Lynn, PA 15451
Chico Pad A	ESCGP 1	ESX11-051-0013	PA	Fayette	Springhill	PA DEP SWRO	9/10/2012	9/9/2017	199 Lake Lynn Road, Lake Lynn, PA 15451
Chico Unit 1H	Drill Permit	37-051-24465	PA	Fayette	Springhill	PA DEP SWRO	9/19/2011	9/19/2012	199 Lake Lynn Road, Lake Lynn, PA 15451
Chico Unit 2H	Drill Permit	37-051-24466	PA	Fayette	Springhill	PA DEP SWRO	9/19/2011	9/18/2012	199 Lake Lynn Road, Lake Lynn, PA 15451
Chico Unit 3H	Drill Permit	37-051-24467	PA	Fayette	Springhill	PA DEP SWRO	9/19/2011	9/18/2012	199 Lake Lynn Road, Lake Lynn, PA 15451
Christofel M01V	Drill Permit	37-051-24707	PA	Fayette	Jefferson	PA DEP SWRO	06/05/2019	06/05/2020	300 Zias Road, Perryopolis, PA 15473
Christofel Pad A	ESCGP 1	ESX11-051-0036	PA	Fayette	Jefferson	PA DEP SWRO	11/22/2011	11/20/2016	298 Zias Road, Perryopolis, PA 15473
Christofel Pad A	ESCGP 3	ESG30705118-001	PA	Fayette	Jefferson	PA DEP SWRO	06/14/2019	06/12/2024	300 Zias Road, Perryopolis, PA 15473
Citro 4H	Drill Permit	37-057-26224	PA	Greene	Center	PA DEP SWRO	7/12/2013	7/12/2014	386 Barton Hollow Road, Waynesburg, PA 15370
Citro Pad A	GP5 – Utility Crossing/Temp Access Road	GP05300714032	PA	Greene	Center	PA DEP SWRO	10/20/14		386 Barton Hollow Road, Waynesburg, PA 15370
Citro Pad A	GP7 – Access Road Stream Crossing	GP073010808	PA	Greene	Center	PA DEP SWRO	7/7/2010		386 Barton Hollow Road, Waynesburg, PA 15370
Citro Pad A	GP8 – Utility Crossing/Temp Access Road	GP08300714032	PA	Greene	Center	PA DEP SWRO	10/20/2014	10/20/2015	386 Barton Hollow Road, Waynesburg, PA 15370
Citro Pad A	ESCGP 1	ESX11-059-0054	PA	Greene	Center	PA DEP SWRO	9/5/2017	3/6/2019	386 Barton Hollow Road, Waynesburg, PA 15370
Citro Pad A Pipeline	Stream Crossing	2014-1107	PA	Greene	Center	PA DEP SWRO	5/27/2015	5/25/2020	386 Barton Hollow Road, Waynesburg, PA 15370
Citro Unit 3H	Drill Permit	37-059-25989	PA	Greene	Center	PA DEP SWRO	5/25/2013	5/25/2014	386 Barton Hollow Road, Waynesburg, PA 15370
Citro Unit 3H	Drill Permit	37-059-25989	PA	Greene	Center	PA DEP SWRO	5/25/2012	5/25/2013	386 Barton Hollow Road, Waynesburg, PA 15370
Citro Unit 2H	Drill Permit	37-059-26225-00,01	PA	Greene	Center	PA DEP SWRO	7/12/2013	7/12/2014	386 Barton Hollow Road, Waynesburg, PA 15370
Cochran 22H	Drill Permit	37-051-24395	PA	Fayette	Lower Tyrone	PA DEP SWRO	10/6/2010	10/6/2011	175 Hickory Square Road, Dawson, PA 15428
COCHRAN 22H	OG 0071b	1170877	PA	Fayette	Lower Tyrone	PA DEP SWRO	2/23/2017	N/A	175 Hickory Square Road, Dawson, PA 15428
Cochran 23H	Drill Permit	37-051-24396	PA	Fayette	Lower Tyrone	PA DEP SWRO	10/6/2010	10/6/2011	175 Hickory Square Road, Dawson, PA 15428
COCHRAN 23H	OG 0071b	1170877	PA	Fayette	Lower Tyrone	PA DEP SWRO	2/23/2017	N/A	175 Hickory Square Road, Dawson, PA 15428
Cochran Pad A	ESCGP 1	ESX10-051-0029	PA	Fay	Lower Tyrone	PA DEP SWRO	9/8/2010	9/7/2015	175 Hickory Square Road, Dawson, PA 15428
Commonwealth 1H	Drill Permit	37-059-26914	PA	Greene	Greene	PA DEP SWRO	11/16/2017	11/16/2018	170 Red Covered Bridge Road, Mount Morris, PA 15349
Commonwealth 2H	Drill Permit	37-059-26920	PA	Greene	Greene	PA DEP SWRO	11/16/2017	11/16/2018	170 Red Covered Bridge Road, Mount Morris, PA 15349
Commonwealth 3H	Drill Permit	37-059-26921	PA	Greene	Greene	PA DEP SWRO	11/16/2017	11/16/2018	170 Red Covered Bridge Road, Mount Morris, PA 15349

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COMMONWEALTH 496 4H	Drill Permit	37-059-26768	PA	Greene	Greene	PA DEP SWRO	11/16/2017	11/16/2018	170 Red Covered Bridge Road, Mount Morris, PA 15349
Commonwealth 5H	Drill Permit	37-059-26922	PA	Greene	Greene	PA DEP SWRO	11/16/2017	11/16/2018	170 Red Covered Bridge Road, Mount Morris, PA 15349
Commonwealth 6H	Drill Permit	37-059-26923	PA	Greene	Greene	PA DEP SWRO	11/16/2017	11/16/2018	170 Red Covered Bridge Road, Mount Morris, PA 15349
Commonwealth 7H	Drill Permit	37-059-26924	PA	Greene	Greene	PA DEP SWRO	11/16/2017	11/16/2018	170 Red Covered Bridge Road, Mount Morris, PA 15349
Commonwealth 8H	Drill Permit	37-059-27538	PA	Greene	Greene	PA DEP SWRO	11/16/2017	11/16/2018	170 Red Covered Bridge Road, Mount Morris, PA 15349
Commonwealth B 1	Drill Permit	37-059-27676	PA	Greene	Dunkard	PA DEP SWRO	4/12/2018	4/12/2019	441 Roberts Run Road, Mt. Morris, PA 15349
Commonwealth B M02H	Drill Permit	37-059-27862	PA	Greene	Dunkard	PA DEP SWRO	04/30/2019	04/30/2020	441 Roberts Run Road, Mt. Morris, PA 15349
Commonwealth B M03H	Drill Permit	37-059-27848	PA	Greene	Dunkard	PA DEP SWRO	04/30/2019	04/30/2020	441 Roberts Run Road, Mt. Morris, PA 15349
Commonwealth B M04H	Drill Permit	37-059-27847	PA	Greene	Dunkard	PA DEP SWRO	04/30/2019	04/30/2020	441 Roberts Run Road, Mt. Morris, PA 15349
Commonwealth B M05H	Drill Permit	37-059-27849	PA	Greene	Dunkard	PA DEP SWRO	04/30/2019	04/30/2020	441 Roberts Run Road, Mt. Morris, PA 15349
Commonwealth B M06H	Drill Permit	37-059-27850	PA	Greene	Dunkard	PA DEP SWRO	04/30/2019	04/30/2020	441 Roberts Run Road, Mt. Morris, PA 15349
Commonwealth B M07H	Drill Permit	37-059-27854	PA	Greene	Dunkard	PA DEP SWRO	04/30/2019	04/30/2020	441 Roberts Run Road, Mt. Morris, PA 15349
Commonwealth B M08H	Drill Permit	37-059-27851	PA	Greene	Dunkard	PA DEP SWRO	04/30/2019	04/30/2020	441 Roberts Run Road, Mt. Morris, PA 15349
Commonwealth B M09H	Drill Permit	37-059-27853	PA	Greene	Dunkard	PA DEP SWRO	04/30/2019	04/30/2020	441 Roberts Run Road, Mt. Morris, PA 15349
Commonwealth B M10H	Drill Permit	37-059-27852	PA	Greene	Dunkard	PA DEP SWRO	04/30/2019	04/30/2020	441 Roberts Run Road, Mt. Morris, PA 15349
Commonwealth B M11H	Drill Permit	37-059-27855	PA	Greene	Dunkard	PA DEP SWRO	04/30/2019	04/30/2020	441 Roberts Run Road, Mt. Morris, PA 15349
Commonwealth B M12H	Drill Permit	37-059-27856	PA	Greene	Dunkard	PA DEP SWRO	04/30/2019	04/30/2020	441 Roberts Run Road, Mt. Morris, PA 15349
Commonwealth B M13H	Drill Permit	37-059-27857	PA	Greene	Dunkard	PA DEP SWRO	04/30/2019	04/30/2020	441 Roberts Run Road, Mt. Morris, PA 15349
Commonwealth B M14H	Drill Permit	37-059-27859	PA	Greene	Dunkard	PA DEP SWRO	04/30/2019	04/30/2020	441 Roberts Run Road, Mt. Morris, PA 15349
Commonwealth B M15H	Drill Permit	37-059-27858	PA	Greene	Dunkard	PA DEP SWRO	04/30/2019	04/30/2020	441 Roberts Run Road, Mt. Morris, PA 15349
Commonwealth Pad A	ESCGP 2	ESX14-059-0072	PA	Greene	Greene	PA DEP SWRO	5/18/2015	5/16/2020	170 Red Covered Bridge Road, Mount Morris, PA 15349
Commonwealth Pad A	OG 0071a	1214775	PA	Greene	Greene	PA DEP SWRO	1/25/2018		170 Red Covered Bridge Road, Mount Morris, PA 15349
Connellsville Sportsmeens Assoc 7H	Drill Permit	37-051-24438	PA	Fayette	Bullskin	PA DEP SWRO	4/8/2011	4/7/2012	2299 Industrial Lane, Connellsville, PA 15425
Connellsville Sportsmeens Assoc 8H	Drill Permit	37-051-24439	PA	Fayette	Bullskin	PA DEP SWRO	4/8/2011	4/7/2012	2299 Industrial Lane, Connellsville, PA 15425
CONNELLSVILLE SPORTSMENS ASSOC Pa	ESCGP 1	ESX10-051-0013	PA	Fayette	Bullskin	PA DEP SWRO	2/28/2011	2/27/2016	2299 Industrial Lane, Connellsville, PA 15425
Conner	Army Corp		WV	Marshall	Clay	ACOE	8/8/2013	8/7/2018	205 Kull Lane, Moundsville, WV 26041
Conner 10H	Drill Permit	47-051-01775	WV	Marshall	Clay	WVDEP	1/8/2015	1/8/2017	205 Kull Lane, Moundsville, WV 26041
Conner 1H	Drill Permit	47-051-01769	WV	Marshall	Clay	WVDEP	1/8/2015	1/8/2017	205 Kull Lane, Moundsville, WV 26041
Conner 2H	Drill Permit	47-051-01596	WV	Marshall	Clay	WVDEP	2/19/2013	2/19/2015	205 Kull Lane, Moundsville, WV 26041
Conner 3H	Drill Permit	47-051-01770	WV	Marshall	Clay	WVDEP	1/8/2015	1/8/2017	205 Kull Lane, Moundsville, WV 26041
Conner 4H	Drill Permit	47-051-01597	WV	Marshall	Clay	WVDEP	2/19/2013	2/19/2015	205 Kull Lane, Moundsville, WV 26041
Conner 5H	Drill Permit	47-051-01771	WV	Marshall	Clay	WVDEP	1/8/2015	1/8/2017	205 Kull Lane, Moundsville, WV 26041
Conner 6H	Drill Permit	47-051-01599	WV	Marshall	Clay	WVDEP	6/6/2013	6/6/2015	205 Kull Lane, Moundsville, WV 26041
Conner 7H	Drill Permit	47-051-01772	WV	Marshall	Clay	WVDEP	1/8/2015	1/8/2017	205 Kull Lane, Moundsville, WV 26041
Conner 8H	Drill Permit	47-051-01773	WV	Marshall	Clay	WVDEP	1/8/2015	1/8/2017	205 Kull Lane, Moundsville, WV 26041
Conner 9H	Drill Permit	47-051-01774	WV	Marshall	Clay	WVDEP	1/8/2015	1/8/2017	205 Kull Lane, Moundsville, WV 26041
Consol / USX 13H	Drill Permit	37-059-24489	PA	Greene	Cumberland	PA DEP SWRO	10/4/2007	10/4/2008	211 Carmichaels Street, Rices Landing, PA 15357
Consol / USX 53	Drill Permit	37-059-24919	PA	Greene	Cumberland	PA DEP SWRO	9/12/2008	9/12/2009	619 Carmichaels Street, Rices Landing, PA 15357
Cook 16H	Drill Permit	37-129-28482	PA	Westmoreland	Sewickley	PA DEP SWRO	11/22/2010	11/22/2011	2038 Greensburg Pike, West Newton, PA 15089
Cook 17H	Drill Permit	37-129-28483	PA	Westmoreland	Sewickley	PA DEP SWRO	11/22/2010	11/22/2011	2038 Greensburg Pike, West Newton, PA 15089
Cook Pad A	ESCGP 1	ESX10-129-0042	PA	Westmoreland	Sewickley	PA DEP SWRO	5/28/2011	5/27/2016	2038 Greensburg Pike, West Newton, PA 15089
Cowden 47H	Drill Permit	37-125-23271	PA	Washington	Cross Creek	PA DEP SWRO	9/9/2008	9/9/2009	715 Old Ridge Road, Avella, PA 15312
Cox 10H	Drill Permit	47-5101848	WV	Marshall	Clay	WVDEP	9/3/2015	9/3/2017	7256 Fork Ridge Road, Moundsville, WV 26041
Craig Lash Pad A	ESCGP 2	ESX12-129-0015	PA	Westmoreland	Sewickley	PA DEP SWRO	1/9/2014	1/8/2019	292 Dairy Lane, West Newton, PA 15089
Craig Lash Unit 1H	Drill Permit	37-129-28825	PA	Westmoreland	Sewickley	PA DEP SWRO	11/29/2012	11/29/2013	292 Dairy Lane, West Newton, PA 15089
Craig Lash Unit 2H	Drill Permit	37-129-28839	PA	Westmoreland	Sewickley	PA DEP SWRO	2/27/2013	2/27/2014	292 Dairy Lane, West Newton, PA 15089
Croushore Pad A	ESCGP 1	ESX10-051-0007	PA	Fayette	German	PA DEP SWRO	3/12/2010	3/11/2015	268 Croushore Road, Adah, PA 15410
Croushore Unit 10H	Drill Permit	37-051-24392	PA	Fayette	German	PA DEP SWRO	9/27/2010	9/27/2011	268 Croushore Road, Adah, PA 15410
Croushore Unit 10H	OG 0071b	1169792	PA	Fayette	German	PA DEP SWRO	2/23/2017	N/A	268 Croushore Road, Adah, PA 15410
Croushore Unit 11H	Drill Permit	37-051-24391	PA	Fayette	German	PA DEP SWRO	9/27/2010	9/27/2011	268 Croushore Road, Adah, PA 15410

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Croushore Unit 11H	OG 0071b	1169792	PA	Fayette	German	PA DEP SWRO	2/23/2017	N/A	268 Croushore Road, Adah, PA 15410
Croushore Unit 12H	Drill Permit	37-051-24393	PA	Fayette	German	PA DEP SWRO	9/28/2010	9/28/2011	268 Croushore Road, Adah, PA 15410
Croushore Unit 12H	OG 0071b	1169792	PA	Fayette	German	PA DEP SWRO	2/23/2017	N/A	268 Croushore Road, Adah, PA 15410
Curry 10H	Drill Permit	47-5101786	WV	Marshall	Washington	WVDEP	1/14/2015	1/14/2017	1692 Waymans Ridge Road, Moundsville, WV 26041
Curry 11H	Drill Permit	47-5101787	WV	Marshall	Washington	WVDEP	1/14/2015	1/14/2017	1692 Waymans Ridge Road, Moundsville, WV 26041
Curry 2H	Drill Permit	47-5101779	WV	Marshall	Washington	WVDEP	1/14/2015	1/14/2017	1692 Waymans Ridge Road, Moundsville, WV 26041
Curry 3H	Drill Permit	47-5101780	WV	Marshall	Washington	WVDEP	1/14/2015	1/14/2017	1692 Waymans Ridge Road, Moundsville, WV 26041
Curry 4H	Drill Permit	47-5101781	WV	Marshall	Washington	WVDEP	1/14/2015	1/14/2017	1692 Waymans Ridge Road, Moundsville, WV 26041
Curry 5H	Drill Permit	47-5101782	WV	Marshall	Washington	WVDEP	1/14/2015	1/14/2017	1692 Waymans Ridge Road, Moundsville, WV 26041
Curry 7H	Drill Permit	47-5101783	WV	Marshall	Washington	WVDEP	1/14/2015	1/14/2017	1692 Waymans Ridge Road, Moundsville, WV 26041
Curry 8H	Drill Permit	47-5101784	WV	Marshall	Washington	WVDEP	1/14/2015	1/14/2017	1692 Waymans Ridge Road, Moundsville, WV 26041
Curry 9H	Drill Permit	47-5101785	WV	Marshall	Washington	WVDEP	1/14/2015	1/14/2017	1692 Waymans Ridge Road, Moundsville, WV 26041
Davis 1H	Drill Permit	37-009-20085	PA	Bedford	West St. Clair	PA DEP SWRO	9/2/2010	9/2/2011	5873 Quaker Valley Road, Alum Bank, PA 15521
Dermotta 2H	Drill Permit	37-129-28743	PA	Westmoreland	Sewickley	PA DEP SWRO	2/8/2012	2/7/2013	338 Rodebaugh Road, Irwin, PA 15642
Dermotta 3H	Drill Permit	37-129-28744	PA	Westmoreland	Sewickley	PA DEP SWRO	2/8/2012	2/7/2013	338 Rodebaugh Road, Irwin, PA 15642
Dermotta 4H	Drill Permit	37-129-28745	PA	Westmoreland	Sewickley	PA DEP SWRO	2/8/2012	2/7/2013	338 Rodebaugh Road, Irwin, PA 15642
Dermotta Pad A	ESCGP 1	ESX11-129-0020	PA	Westmoreland	Sewickley	PA DEP SWRO	1/14/2013	1/13/2018	338 Rodebaugh Road, Irwin, PA 15642
DiCarlo 13H	Drill Permit	37-051-24472	PA	Fayette	Luzerne	PA DEP SWRO	10/6/2011	10/5/2012	422 Palmer Adah Road, Adah, PA 15410
DiCarlo 14H	Drill Permit	37-051-24473	PA	Fayette	Luzerne	PA DEP SWRO	9/29/2011	9/28/2012	422 Palmer Adah Road, Adah, PA 15410
DiCarlo 15H	Drill Permit	37-051-24474	PA	Fayette	Luzerne	PA DEP SWRO	10/6/2011	10/5/2012	422 Palmer Adah Road, Adah, PA 15410
DiCarlo 16H	Drill Permit	37-051-24475	PA	Fayette	Luzerne	PA DEP SWRO	10/6/2011	10/5/2012	422 Palmer Adah Road, Adah, PA 15410
DiCarlo 17H	Drill Permit	37-051-24476	PA	Fayette	Luzerne	PA DEP SWRO	10/6/2011	10/5/2012	422 Palmer Adah Road, Adah, PA 15410
DiCarlo 18H	Drill Permit	37-051-24477	PA	Fayette	Luzerne	PA DEP SWRO	10/6/2011	10/5/2012	422 Palmer Adah Road, Adah, PA 15410
DiCarlo Pad A	ESCGP 2	ESX11-051-0034	PA	Fayette	Luzerne	PA DEP SWRO	9/27/2016	9/26/2021	422 Palmer Adah Road, Adah, PA 15410
Dick 1H	Drill Permit	37-063-36846	PA	Indiana	Brush Valley	PA DEP SWRO	4/30/2010	4/30/2011	1632 Claghorn Road, Homer City, PA 15748
Dick 2H	Drill Permit	37-063-36976	PA	Indiana	Brush Valley	PA DEP SWRO	11/3/2010	11/3/2011	1632 Claghorn Road, Homer City, PA 15748
Dick Pad A	ESCGP 1	ESX10-063-0005	PA	Indiana	Brush Valley	PA DEP SWRO	5/26/2015	5/24/2020	1632 Claghorn Road, Homer City, PA 15748
Dogbone Centralized Water Facility	General Permit WMGR123	WMGR123W025	PA	Fayette	Luzerne	PA DEP SWRO	2/26/2018	10/4/2020	180 Rush Run Road, East Millsboro, PA 15433
Dogbone Centralized Water Facility	WMGR	WMGR123SW025	PA	Fayette	Luzerne	PA DEP SWRO	02/26/18	10/4/2020	Rush Run Road, East Millsboro, PA 15433
Dogbone Water Line System	GP-05 Utility Line Stream Cross	GP05260718-001	PA	Fayette	Luzerne	PA DEP SWRO	09/10/18		Rush Run Road, East Millsboro, PA 15433
Dogbone Water Line System	GP-08 Temporary Road Crossin	GP08260718-001	PA	Fayette	Luzerne	PA DEP SWRO	09/10/18		Rush Run Road, East Millsboro, PA 15433
Dogbone Waterline	ESCGP-2	ESG18-051-0001	PA	Fayette	Luzerne	PA DEP SWRO	09/05/18	9/6/2023	Rush Run Road, East Millsboro, PA 15433
Donahoo Pad A	ESCGP 2	ESX11-125-0065	PA	Washington	West Bethlehem	PA DEP SWRO	7/18/2013	7/27/2018	300 Grable Road, Marianna, PA 15345
Donahoo Unit 10H	Drill Permit	37-125-24718	PA	Washington	West Bethlehem	PA DEP SWRO	3/22/2012	3/22/2013	300 Grable Road, Marianna, PA 15345
Donahoo Unit 11H	Drill Permit	37-125-24719	PA	Washington	West Bethlehem	PA DEP SWRO	3/22/2012	3/22/2013	300 Grable Road, Marianna, PA 15345
Donahoo Unit 8H	Drill Permit	37-125-24716	PA	Washington	West Bethlehem	PA DEP SWRO	3/22/2012	3/22/2013	300 Grable Road, Marianna, PA 15345
Donahoo Unit 9H	Drill Permit	37-125-24717	PA	Washington	West Bethlehem	PA DEP SWRO	3/22/2012	3/22/2013	300 Grable Road, Marianna, PA 15345
Donley 22H	Drill Permit	37-059-26053	PA	Greene	Dunkard	PA DEP SWRO	3/7/2014	3/7/2015	479 Taylortown Road, Dilliner, PA 15327
Donley 23H	Drill Permit	37-059-26054	PA	Greene	Dunkard	PA DEP SWRO	2/21/2014	2/21/2015	479 Taylortown Road, Dilliner, PA 15327
Donley 24H	Drill Permit	37-059-26055-00,01	PA	Greene	Dunkard	PA DEP SWRO	2/21/2014	2/21/2015	479 Taylortown Road, Dilliner, PA 15327
Donley Pad A	ESCGP 1	ESX12-059-0033	PA	Greene	Dunkard	PA DEP SWRO	9/12/2012	9/11/2017	479 Taylortown Road, Dilliner, PA 15327
Donley Pad A (22-24) Salesline	ESCGP 2	ESX14-059-0043	PA	Greene	Dunkard	PA DEP SWRO	10/30/2014	10/29/2019	479 Taylortown Road, Dilliner, PA 15327
Donley Pad B	ESCGP 1	ESX11-059-0050	PA	Greene	Dunkard	PA DEP SWRO	9/21/2011	9/19/2016	479 Taylortown Road, Dilliner, PA 15327
Dumm 3H	Drill Permit	37-063-37374	PA	Indiana	Pine	PA DEP SWRO	4/11/2012	4/11/2013	335 Kitner Road, Nicktown, PA 15762
Dumm Pad A	ESCGP 1	ESX11-063-0008	PA	Indiana	Pine	PA DEP SWRO	7/28/2011	7/26/2016	335 Kitner Road, Nicktown, PA 15762
Dumm Pad A	OG 0071a	1220817	PA	Indiana	Pine	PA DEP SWRO	3/15/2018	N/A	335 Kitner Road, Nicktown, PA 15762
East Green South Monongahela River Intake	GP-4 SLLA	GP04300718-002	PA	Greene	Monongahela	PA DEP SWRO	12/05/18	N/A	N/A
Eckerd Pad A	ESCGP 1	ESX09-125-0002	PA	Washington	Deemston	PA DEP SWRO	5/11/2009	5/10/2014	2850 Martindale Road, Scenery Hill, PA 15360

Project Name	Permit Type	Permit Number	State	County	Township	Regulatory Agency	Permit Issued Date	Permit Expiration Date	911 Address
Eckerd Unit 4H	Drill Permit	37-125-24185	PA	Washington	Deemston	PA DEP SWRO	6/15/2010	6/15/2011	2850 Martindale Road, Scenery Hill, PA 15360
Edenborn/RGGS B 1	Drill Permit	37-051-24651	PA	Fayette	German	PA DEP SWRO	3/7/2018	3/7/2019	392 Gates Road, Adah, PA 15410
Edenborn/RGGS B M01H	Drill Permit	37-051-24675	PA	Fayette	German	PA DEP SWRO	03/13/2020	03/13/2021	392 Gates Road, Adah, PA 15410
Edenborn/RGGS B M02H	Drill Permit	37-051-24678	PA	Fayette	German	PA DEP SWRO	03/13/2020	03/13/2021	392 Gates Road, Adah, PA 15410
Edenborn/RGGS B M03H	Drill Permit	37-051-24676	PA	Fayette	German	PA DEP SWRO	03/13/2020	03/13/2021	392 Gates Road, Adah, PA 15410
Edenborn/RGGS B M04H	Drill Permit	37-051-24681	PA	Fayette	German	PA DEP SWRO	03/13/2020	03/13/2021	392 Gates Road, Adah, PA 15410
Edenborn/RGGS B M05H	Drill Permit	37-051-24682	PA	Fayette	German	PA DEP SWRO	03/12/2020	03/12/2021	392 Gates Road, Adah, PA 15410
Edenborn/RGGS B M06H	Drill Permit	37-051-24679	PA	Fayette	German	PA DEP SWRO	12/10/2018	12/10/2019	392 Gates Road, Adah, PA 15410
Edenborn/RGGS B M07H	Drill Permit	37-051-24683	PA	Fayette	German	PA DEP SWRO	12/12/2018	12/10/2019	392 Gates Road, Adah, PA 15410
Edenborn/RGGS B M09H	Drill Permit	37-051-24680	PA	Fayette	German	PA DEP SWRO	12/10/2018	12/10/2019	392 Gates Road, Adah, PA 15410
Edenborn/RGGS B M10H	Drill Permit	37-051-24684	PA	Fayette	German	PA DEP SWRO	12/10/2018	12/10/2019	392 Gates Road, Adah, PA 15410
Edenborn/RGGS B M11H	Drill Permit	37-051-24687	PA	Fayette	German	PA DEP SWRO	12/10/2018	12/10/2019	392 Gates Road, Adah, PA 15410
Edenborn/RGGS B M12H	Drill Permit	37-051-24685	PA	Fayette	German	PA DEP SWRO	12/10/2018	12/10/2019	392 Gates Road, Adah, PA 15410
Edenborn/RGGS B M13H	Drill Permit	37-051-24686	PA	Fayette	German	PA DEP SWRO	11/06/2018	12/13/2018	392 Gates Road, Adah, PA 15410
Edenborn/RGGS B M14H	Drill Permit	37-051-24688	PA	Fayette	German	PA DEP SWRO	03/13/2020	03/13/2021	392 Gates Road, Adah, PA 15410
Edenborn/RGGS B M15H	Drill Permit	37-051-24689	PA	Fayette	German	PA DEP SWRO	03/13/2020	03/13/2021	392 Gates Road, Adah, PA 15410
Edenborn/RGGS B U16H	Drill Permit	37-051-24708	PA	Fayette	German	PA DEP SWRO	06/03/2019	06/03/2020	392 Gates Road, Adah, PA 15410
Edenborn/RGGS Pad B	ESCGP 2	ESX18-051-0003	PA	Fayette	German	PA DEP SWRO	10/23/2018	10/22/2023	392 Gates Road, Adah, PA 15410
Elias 11H	Drill Permit	37-129-28404	PA	Westmoreland	South Huntingdon	PA DEP SWRO	7/19/2010	7/19/2011	1740 Mt Pleasant Road, West Newton, PA 15089
Elias 12H	Drill Permit	37-129-28403	PA	Westmoreland	South Huntingdon	PA DEP SWRO	7/19/2010	7/19/2011	1740 Mt Pleasant Road, West Newton, PA 15089
Elias Pad A	ESCGP 1	ESX09-129-0020	PA	Westmoreland	South Huntingdon	PA DEP SWRO	8/27/2009	8/26/2014	1740 Mt Pleasant Road, West Newton, PA 15089
Faverio Pad A	ESCGP 1	ESX09-051-0043	PA	Fayette	Redstone	PA DEP SWRO	1/6/2010	1/5/2015	340 Snuff Ridge Road, New Salem, PA 15468
Faverio Unit 5H	Drill Permit	37-051-24305	PA	Fayette	Redstone	PA DEP SWRO	12/29/2009	12/29/2010	340 Snuff Ridge Road, New Salem, PA 15468
Faverio Unit 6H	Drill Permit	37-051-24306	PA	Fayette	Redstone	PA DEP SWRO	12/29/2009	12/29/2010	340 Snuff Ridge Road, New Salem, PA 15468
Fay Penn 46H	Drill Permit	37-051-24583-00	PA	Fayette	Springhill	PA DEP SWRO	4/10/2014	4/10/2015	155 Bankhead Road, Smithfield, PA 15478
Fay Penn 47H	Drill Permit	37-051-24584-00	PA	Fayette	Springhill	PA DEP SWRO	4/10/2014	4/10/2015	155 Bankhead Road, Smithfield, PA 15478
Fay Penn 48H	Drill Permit	37-051-24585-00	PA	Fayette	Springhill	PA DEP SWRO	4/10/2014	4/10/2015	155 Bankhead Road, Smithfield, PA 15478
Fay Penn Pad A	ESCGP 2	ESX13-051-0003	PA	Fayette	Springhill	PA DEP SWRO	8/8/2013	8/7/2018	155 Bankhead Road, Smithfield, PA 15478
Fayette Beagle Club Pad A	ESCGP 1	ESX09-051-0042	PA	Fayette	Washington	PA DEP SWRO	12/24/2009	12/23/2014	434 Rehobeth Church Road, Perryopolis, PA 15473
Fayette Beagle Club Unit 5H	Drill Permit	37-051-24309	PA	Fayette	Washington	PA DEP SWRO	1/21/2010	1/21/2011	434 Rehobeth Church Road, Perryopolis, PA 15473
Fayette Beagle Club Unit 6H	Drill Permit	37-051-24310	PA	Fayette	Washington	PA DEP SWRO	1/19/2010	1/19/2011	434 Rehobeth Church Road, Perryopolis, PA 15473
FDS 6H	Drill Permit	37-051-24411	PA	Fayette	German	PA DEP SWRO	1/4/2011	1/4/2012	298 Croushore Road, Adah, PA 15410
FDS 7H	Drill Permit	37-051-24412	PA	Fayette	German	PA DEP SWRO	1/4/2011	1/4/2012	298 Croushore Road, Adah, PA 15410
FDS 8H	Drill Permit	37-051-24413	PA	Fayette	German	PA DEP SWRO	12/29/2010	12/29/2011	298 Croushore Road, Adah, PA 15410
FDS Pad A	ESCGP 1	ESX10-051-0047	PA	Fayette	German	PA DEP SWRO	11/23/2010	11/22/2015	298 Croushore Road, Adah, PA 15410
Fenchak Unit 1H	Drill Permit	37-063-37037	PA	Indiana	Buffington	PA DEP SWRO	1/27/2011	1/27/2012	88 Shortcut Road, Homer City, PA 15748
Fork Ridge Turnaround	NPDES	WVR310523	WV	Marshall	Clay	WVDEP	5/28/2015	5/13/2018	2380 Fork Ridge Road, Moundsville, WV 26041
Francis 1	Drill Permit	47-051-01190	WV	Marshall	Clay	WVDEP	10/22/2008	10/22/2010	5258 Fork Ridge Road, Moundsville, WV 26041
Francis 10H	Drill Permit	47-051-01717	WV	Marshall	Clay	WVDEP	3/20/2014	3/19/2016	5258 Fork Ridge Road, Moundsville, WV 26041
Francis 11H	Drill Permit	47-051-01718	WV	Marshall	Clay	WVDEP	3/20/2014	3/19/2016	5258 Fork Ridge Road, Moundsville, WV 26041
Francis 12H	Drill Permit	47-051-01719	WV	Marshall	Clay	WVDEP	3/20/2014	3/19/2016	5258 Fork Ridge Road, Moundsville, WV 26041
Francis 13H	Drill Permit	47-051-01720	WV	Marshall	Clay	WVDEP	3/20/2014	3/19/2016	5258 Fork Ridge Road, Moundsville, WV 26041
Francis 2H	Drill Permit	47-051-01710	WV	Marshall	Clay	WVDEP	3/20/2014	3/19/2016	5258 Fork Ridge Road, Moundsville, WV 26041
Francis 3H	Drill Permit	47-051-01711	WV	Marshall	Clay	WVDEP	3/20/2014	3/19/2016	5258 Fork Ridge Road, Moundsville, WV 26041
Francis 4H	Drill Permit	47-051-01712	WV	Marshall	Clay	WVDEP	3/20/2014	3/19/2016	5258 Fork Ridge Road, Moundsville, WV 26041
Francis 6H	Drill Permit	47-051-01713	WV	Marshall	Clay	WVDEP	3/20/2014	3/19/2016	5258 Fork Ridge Road, Moundsville, WV 26041
Francis 7H	Drill Permit	47-051-01714	WV	Marshall	Clay	WVDEP	3/20/2014	3/19/2016	5258 Fork Ridge Road, Moundsville, WV 26041
Francis 8H	Drill Permit	47-051-01715	WV	Marshall	Clay	WVDEP	3/20/2014	3/19/2016	5258 Fork Ridge Road, Moundsville, WV 26041
Francis 9H	Drill Permit	47-051-01716	WV	Marshall	Clay	WVDEP	3/20/2014	3/19/2016	5258 Fork Ridge Road, Moundsville, WV 26041
Francis to Taylor Water Line	NPDES	WVR310439	WV	Marshall	Clay	WVDEP	1/28/2015	5/13/2018	5258 Fork Ridge Road, Moundsville, WV 26041

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Frankhouser 3H	Drill Permit	37-051-24460	PA	Fayette	Luzerne	PA DEP SWRO	9/12/2011	9/11/2012	1129 Knox Road, Adah, PA 15410
FRANKHOUSER 3H	OG 0071b	1169792	PA	Fayette	Luzerne	PA DEP SWRO	2/23/2017	N/A	1129 Knox Road, Adah, PA 15410
Frankhouser 4H	Drill Permit	37-051-24461	PA	Fayette	Luzerne	PA DEP SWRO	9/12/2011	9/11/2012	1129 Knox Road, Adah, PA 15410
FRANKHOUSER 4H	OG 0071b	1169792	PA	Fayette	Luzerne	PA DEP SWRO	2/23/2017	N/A	1129 Knox Road, Adah, PA 15410
Frankhouser 5H	Drill Permit	37-051-24462	PA	Fayette	Luzerne	PA DEP SWRO	9/12/2011	9/11/2012	1129 Knox Road, Adah, PA 15410
FRANKHOUSER 5H	OG 0071b	1169792	PA	Fayette	Luzerne	PA DEP SWRO	2/23/2017	N/A	1129 Knox Road, Adah, PA 15410
Frankhouser 6H	Drill Permit	37-051-24463	PA	Fayette	Luzerne	PA DEP SWRO	9/12/2011	9/11/2012	1129 Knox Road, Adah, PA 15410
FRANKHOUSER 6H	OG 0071b	1169792	PA	Fayette	Luzerne	PA DEP SWRO	2/23/2017	N/A	1129 Knox Road, Adah, PA 15410
Frankhouser Pad A	ESCGP 1	ESX10-051-0019	PA	Fayette	Luzerne	PA DEP SWRO	1/10/2017	7/4/2017	1129 Knox Road, Adah, PA 15410
Frankhouser Pad A	OG 0071a	1169792	PA	Fayette	Luzerne	PA DEP SWRO	4/24/2017	N/A	1129 Knox Road, Adah, PA 15410
Freeland M01H	Drill Permit	4705102142	WV	Marshall	Clay	WVDEP	11/20/2019	11/19/2021	3599 Roberts Ridge Road, Moundsville, WV 26041
Freeland M02H	Drill Permit	4705102144	WV	Marshall	Clay	WVDEP	11/20/2019	11/19/2021	3599 Roberts Ridge Road, Moundsville, WV 26041
freeland M03H	Drill Permit	4705102145	WV	Marshall	Clay	WVDEP	11/20/2019	11/19/2021	3599 Roberts Ridge Road, Moundsville, WV 26041
freeland M04H	Drill Permit	4705102146	WV	Marshall	Clay	WVDEP	11/20/2019	11/19/2021	3599 Roberts Ridge Road, Moundsville, WV 26041
freeland M05H	Drill Permit	4705102148	WV	Marshall	Clay	WVDEP	11/20/2019	11/19/2021	3599 Roberts Ridge Road, Moundsville, WV 26041
Freeland M06H	Drill Permit	4705102151	WV	Marshall	Clay	WVDEP	11/20/2019	11/19/2021	3599 Roberts Ridge Road, Moundsville, WV 26041
Freeland M07H	Drill Permit	4705102153	WV	Marshall	Clay	WVDEP	11/20/2019	11/19/2021	3599 Roberts Ridge Road, Moundsville, WV 26041
Freeland M08H	Drill Permit	4705102154	WV	Marshall	Clay	WVDEP	11/20/2019	11/19/2021	3599 Roberts Ridge Road, Moundsville, WV 26041
Game Lands 3H	Drill Permit	37-059-25339	PA	Greene	Dunkard	PA DEP SWRO	11/3/2009	11/3/2010	146 Water Tank Road, Dilliner, PA 15327
Game Lands 4H	Drill Permit	37-059-25340	PA	Greene	Dunkard	PA DEP SWRO	12/3/2009	12/3/2010	146 Water Tank Road, Dilliner, PA 15327
Gamelands	ESCGP 1	ESX09-059-0037	PA	Greene	Dunkard	PA DEP SWRO	8/27/2009	8/26/2014	146 Water Tank Road, Dilliner, PA 15327
Golden Rod Sportsmen Club 1H	Drill Permit	37-021-21202-00,01	PA	Cambria	Jackson	PA DEP SWRO	8/8/2013	8/8/2014	278 Blackburn Road, Johnstown, PA 15909
Golden Rod Sportsmen Club Pad A	ESCGP 2	ESX13-021-0001	PA	Cambria	Jackson	PA DEP SWRO	11/14/2013	11/13/2018	278 Blackburn Road, Johnstown, PA 15909
Grant Pad A	ESCGP 1	ESX10-051-0010	PA	Fayette	Redstone	PA DEP SWRO	6/2/2011	5/31/2016	182 Thompson 01 Road, Adah, PA 15410
Grant Unit 15H	Drill Permit	37-051-24371	PA	Fayette	Redstone	PA DEP SWRO	7/16/2010	7/16/2011	182 Thompson 01 Road, Adah, PA 15410
Grant Unit 16H	Drill Permit	37-051-24370	PA	Fayette	Redstone	PA DEP SWRO	7/16/2010	7/16/2011	182 Thompson 01 Road, Adah, PA 15410
Greenawalt Pad A	ESCGP 1	ESX10-129-0013	PA	Westmoreland	Sewickley	PA DEP SWRO	6/4/2010	6/3/2015	139 Pierce Road, West Newton, PA 15089
Greenawalt Unit 25H	Drill Permit	37-129-28406	PA	Westmoreland	Sewickley	PA DEP SWRO	8/3/2010	8/3/2011	139 Pierce Road, West Newton, PA 15089
Greenawalt Unit 26H	Drill Permit	37-129-28407	PA	Westmoreland	Sewickley	PA DEP SWRO	8/3/2010	8/3/2011	139 Pierce Road, West Newton, PA 15089
Greenawalt Unit 27H	Drill Permit	37-129-28456	PA	Westmoreland	Sewickley	PA DEP SWRO	10/8/2010	10/8/2011	139 Pierce Road, West Newton, PA 15089
Grooms 10H	Drill Permit	37-059-25688	PA	Greene	Franklin	PA DEP SWRO	3/14/2011	3/13/2012	572 Pisgah Ridge Road, Waynesburg, PA 15370
Grooms 11H	Drill Permit	37-059-25689	PA	Greene	Franklin	PA DEP SWRO	3/14/2011	3/13/2012	572 Pisgah Ridge Road, Waynesburg, PA 15370
Grooms 12H	Drill Permit	37-059-25674	PA	Greene	Franklin	PA DEP SWRO	2/28/2011	2/28/2012	572 Pisgah Ridge Road, Waynesburg, PA 15370
Grooms 5H	Drill Permit	37-059-25670	PA	Greene	Franklin	PA DEP SWRO	2/14/2011	2/14/2012	572 Pisgah Ridge Road, Waynesburg, PA 15370
Grooms 6H	Drill Permit	37-059-25671	PA	Greene	Franklin	PA DEP SWRO	2/14/2011	2/14/2012	572 Pisgah Ridge Road, Waynesburg, PA 15370
Grooms 7H	Drill Permit	37-059-25672	PA	Greene	Franklin	PA DEP SWRO	2/14/2011	2/14/2012	572 Pisgah Ridge Road, Waynesburg, PA 15370
Grooms 8H	Drill Permit	37-059-25673	PA	Greene	Franklin	PA DEP SWRO	2/28/2011	2/28/2012	572 Pisgah Ridge Road, Waynesburg, PA 15370
Grooms 9H	Drill Permit	37-059-25687	PA	Greene	Franklin	PA DEP SWRO	3/14/2011	3/13/2012	572 Pisgah Ridge Road, Waynesburg, PA 15370
Grooms Pad	ESCGP 2	ESX10-059-0088	PA	Greene	Franklin	PA DEP SWRO	11/5/2014	11/4/2019	572 Pisgah Ridge Road, Waynesburg, PA 15370
Guardasoni Pad A	ESCGP 1	ESX14-129-0025	PA	Westmoreland	Sewickley	PA DEP SWRO	11/10/2016	8/17/2017	267 Volk Road, Irwin, PA 15642
Guardasoni Pad A Salesline	ESCGP 2	ESX14-129-0003	PA	Westmoreland	Sewickley	PA DEP SWRO	5/20/2014	5/19/2019	267 Volk Road, Irwin, PA 15642
Guardasoni Unit 1H	Drill Permit	37-129-28826-11-01	PA	Westmoreland	Sewickley	PA DEP SWRO	12/20/2013	12/20/2014	267 Volk Road, Irwin, PA 15642
Guardasoni Unit 2H	Drill Permit	37-129-28827	PA	Westmoreland	Sewickley	PA DEP SWRO	10/26/2012	10/26/2013	267 Volk Road, Irwin, PA 15642
Gurki 1H	Drill Permit	37-129-28756	PA	Westmoreland	Sewickley	PA DEP SWRO	2/10/2012	2/9/2013	161 Sulphur Springs Road, Irwin, PA 15642
Gurki 2H	Drill Permit	37-129-28757	PA	Westmoreland	Sewickley	PA DEP SWRO	2/10/2012	2/9/2013	161 Sulphur Springs Road, Irwin, PA 15642
Gurki 3H	Drill Permit	37-129-28758	PA	Westmoreland	Sewickley	PA DEP SWRO	2/10/2012	2/9/2013	161 Sulphur Springs Road, Irwin, PA 15642
Gurki 4H	Drill Permit	37-129-28759	PA	Westmoreland	Sewickley	PA DEP SWRO	2/10/2012	2/9/2013	161 Sulphur Springs Road, Irwin, PA 15642
Gurki Pad A	ESCGP 1	ESX11-129-0031	PA	Westmoreland	Sewickley	PA DEP SWRO	4/10/2013	4/9/2018	161 Sulphur Springs Road, Irwin, PA 15642
Gurki Pad A	GP7 – Access Road Stream Crossing	GP07650712-001	PA	Westmoreland	Sewickley	PA DEP SWRO	6/18/2012		161 Sulphur Springs Road, Irwin, PA 15642

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Hall / Hogsett Unit 12H	Drill Permit	37-051-24533	PA	Fayette	Luzerne	PA DEP SWRO	1/16/2013	1/16/2014	381 Palmer Adah Road, Adah, PA 15410
Hall / Hogsett Unit 13H	Drill Permit	37-051-24580	PA	Fayette	Luzerne	PA DEP SWRO	4/30/2013	4/30/2014	381 Palmer Adah Road, Adah, PA 15410
Hall / Hogsett Unit 14H	Drill Permit	37-051-24535-00, -01	PA	Fayette	Luzerne	PA DEP SWRO	5/28/2014	5/28/2015	381 Palmer Adah Road, Adah, PA 15410
Hall / Hogsett Unit 15H	Drill Permit	37-051-24536	PA	Fayette	Luzerne	PA DEP SWRO	1/16/2013	1/16/2014	381 Palmer Adah Road, Adah, PA 15410
Hall Hogett Pad A Salesline	ESCGP 2	ESX14-051-0009	PA	Fayette	Luzerne	PA DEP SWRO	7/25/2014	7/24/2019	381 Palmer Adah Road, Adah, PA 15410
Hall Hogsett Pad A	ESCGP 1	ESX10-051-0020	PA	Fayette	Luzerne	PA DEP SWRO	7/22/2010	7/21/2015	381 Palmer Adah Road, Adah, PA 15410
Hambleton 1H	Drill Permit	37-125-24330	PA	Washington	West Bethlehem	PA DEP SWRO	12/3/2010	12/3/2011	103 Stopka Lane, Amity, PA 15311
Hambleton 1H	OG 0071b	1169792	PA	Washington	West Bethlehem	PA DEP SWRO	6/22/2017	N/A	103 Stopka Lane, Amity, PA 15311
Hambleton 2H	Drill Permit	37-125-24331	PA	Washington	West Bethlehem	PA DEP SWRO	12/3/2010	12/3/2011	103 Stopka Lane, Amity, PA 15311
Hambleton 2H	OG 0071b	1169792	PA	Washington	West Bethlehem	PA DEP SWRO	6/22/2017	N/A	103 Stopka Lane, Amity, PA 15311
Hambleton 3H	Drill Permit	37-125-24332	PA	Washington	West Bethlehem	PA DEP SWRO	12/3/2010	12/3/2011	103 Stopka Lane, Amity, PA 15311
Hambleton 3H	OG 0071b	1169792	PA	Washington	West Bethlehem	PA DEP SWRO	6/22/2017	N/A	103 Stopka Lane, Amity, PA 15311
Hambleton 4H	Drill Permit	37-125-24333	PA	Washington	West Bethlehem	PA DEP SWRO	12/3/2010	12/3/2011	103 Stopka Lane, Amity, PA 15311
Hambleton 4H	OG 0071b	1169792	PA	Washington	West Bethlehem	PA DEP SWRO	6/22/2017	N/A	103 Stopka Lane, Amity, PA 15311
Hambleton 5H	Drill Permit	37-125-24334	PA	Washington	West Bethlehem	PA DEP SWRO	12/3/2010	12/3/2011	103 Stopka Lane, Amity, PA 15311
Hambleton 5H	OG 0071b	1169792	PA	Washington	West Bethlehem	PA DEP SWRO	6/22/2017	N/A	103 Stopka Lane, Amity, PA 15311
Hambleton Pad A	ESCGP 1	ESX10-125-0088	PA	Washington	West Bethlehem	PA DEP SWRO	11/17/2010	11/16/2015	103 Stopka Lane, Amity, PA 15311
Hamborsky 12H	Drill Permit	37-051-24381	PA	Fayette	Bullskin	PA DEP SWRO	9/9/2010	9/9/2011	79 Sherrick Road, Connellsville, PA 15425
Hamborsky 13H	Drill Permit	37-051-24443	PA	Fayette	Bullskin	PA DEP SWRO	4/6/2011	4/5/2012	79 Sherrick Road, Connellsville, PA 15425
Hamborsky Pad A	ESCGP 1	ESX09-051-0044	PA	Fayette	Bullskin	PA DEP SWRO	12/30/2009	12/29/2014	79 Sherrick Road, Connellsville, PA 15425
Hart 1H	Drill Permit	47-051-01221	WV	Marshall	Washington	WVDEP	12/16/2008	12/16/2010	338 J&R Drive, Moundsville, WV 26041
Hart 2H	Drill Permit	47-5101748	WV	Marshall	Washington	WVDEP	6/16/2014	6/15/2016	338 J&R Drive, Moundsville, WV 26041
Hart 3H	Drill Permit	47-5101749	WV	Marshall	Washington	WVDEP	6/16/2014	6/15/2016	338 J&R Drive, Moundsville, WV 26041
Hart 4H	Drill Permit	47-5101750	WV	Marshall	Washington	WVDEP	6/16/2014	6/15/2016	338 J&R Drive, Moundsville, WV 26041
Hart 5H	Drill Permit	47-5101751	WV	Marshall	Washington	WVDEP	6/16/2014	6/15/2016	338 J&R Drive, Moundsville, WV 26041
Hart 6H	Drill Permit	47-5101752	WV	Marshall	Washington	WVDEP	6/16/2014	6/15/2016	338 J&R Drive, Moundsville, WV 26041
Hart 7H	Drill Permit	47-5101753	WV	Marshall	Washington	WVDEP	6/16/2014	6/15/2016	338 J&R Drive, Moundsville, WV 26041
Hart 8H	Drill Permit	47-5101754	WV	Marshall	Washington	WVDEP	6/16/2014	6/15/2016	338 J&R Drive, Moundsville, WV 26041
Hart 9H	Drill Permit	47-5101755	WV	Marshall	Washington	WVDEP	6/16/2014	6/15/2016	338 J&R Drive, Moundsville, WV 26041
Hart Pad A	ESCGP 2	ESX13-059-0053	PA	Greene	Cumberland	PA DEP NWRO	11/25/2013	11/24/2018	773 S Eight Eight Road, Carmichaels, PA 15320
Hart Pad A Salesline	ESCGP 2	ESX11-059-0048	PA	Greene	Cumberland	PA DEP SWRO	8/14/2014	8/13/2019	773 S Eight Eight Road, Carmichaels, PA 15320
Hart Unit 10H	Drill Permit	37-059-25973	PA	Greene	Cumberland	PA DEP SWRO	8/17/2010	8/17/2011	773 S Eight Eight Road, Carmichaels, PA 15320
Hart Unit 11H	Drill Permit	37-059-25974	PA	Greene	Cumberland	PA DEP SWRO	11/3/2011	11/2/2012	773 S Eight Eight Road, Carmichaels, PA 15320
Hart Unit 9H	Drill Permit	37-059-25972	PA	Greene	Cumberland	PA DEP SWRO	11/3/2011	11/2/2012	773 S Eight Eight Road, Carmichaels, PA 15320
Hartley 10H	Drill Permit	37-051-24456	PA	Fayette	German	PA DEP SWRO	8/25/2011	8/24/2012	201 Lambert Hollow Road, McClellandtown, PA 15458
Hartley 11H	Drill Permit	37-051-24457	PA	Fayette	German	PA DEP SWRO	8/25/2011	8/24/2012	201 Lambert Hollow Road, McClellandtown, PA 15458
Hartley 6H	Drill Permit	37-051-24452	PA	Fayette	German	PA DEP SWRO	8/25/2011	8/24/2012	201 Lambert Hollow Road, McClellandtown, PA 15458
Hartley 7H	Drill Permit	37-051-24453	PA	Fayette	German	PA DEP SWRO	8/24/2011	8/23/2012	201 Lambert Hollow Road, McClellandtown, PA 15458
Hartley 8H	Drill Permit	37-051-24454	PA	Fayette	German	PA DEP SWRO	8/25/2011	8/24/2012	201 Lambert Hollow Road, McClellandtown, PA 15458
Hartley 9H	Drill Permit	37-051-24455	PA	Fayette	German	PA DEP SWRO	8/25/2011	8/24/2012	201 Lambert Hollow Road, McClellandtown, PA 15458
Hartley Pad A	ESCGP 2	ESX10-051-0040	PA	Fayette	German	PA DEP SWRO	2/27/2014	2/26/2019	201 Lambert Hollow Road, McClellandtown, PA 15458
HAZLETT 1H	Well Plugging	4705101393	WV	Marshall	Union	WVDEP	01/15/2019	01/14/2021	28 Timmi Lane, Glen Dale, WV 26038
Hazlett M01H	Drill Permit	4705102092	WV	Marshall	Union	WVDEP	11/30/2018	11/30/2020	28 Timmi Lane, Glen Dale, WV 26038
Hazlett M02H	Drill Permit	4705102093	WV	Marshall	Union	WVDEP	11/30/2018	11/30/2020	28 Timmi Lane, Glen Dale, WV 26038
Hazlett M03H	Drill Permit	4705102094	WV	Marshall	Union	WVDEP	11/30/2018	11/30/2020	28 Timmi Lane, Glen Dale, WV 26038
Hazlett M04H	Drill Permit	4705102095	WV	Marshall	Union	WVDEP	11/30/2018	11/30/2020	28 Timmi Lane, Glen Dale, WV 26038
Hazlett M05H	Drill Permit	4705102096	WV	Marshall	Union	WVDEP	11/30/2018	11/30/2020	28 Timmi Lane, Glen Dale, WV 26038
Hazlett M06H	Drill Permit	4705102097	WV	Marshall	Union	WVDEP	11/30/2018	11/30/2020	28 Timmi Lane, Glen Dale, WV 26038
Hazlett M07H	Drill Permit	4705102099	WV	Marshall	Union	WVDEP	11/30/2018	11/30/2020	28 Timmi Lane, Glen Dale, WV 26038
Hazlett M08H	Drill Permit	4705102100	WV	Marshall	Union	WVDEP	02/04/2020	02/03/2022	28 Timmi Lane, Glen Dale, WV 26038

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Hazlett M10H	Drill Permit	4705102300	WV	Marshall	Union	WVDEP	02/14/2020	02/14/2022	28 Timmi Lane, Glen Dale, WV 26038
Hazlett M12H	Drill Permit	4705102107	WV	Marshall	Union	WVDEP	11/30/2018	11/30/2020	28 Timmi Lane, Glen Dale, WV 26038
Hazlett M13H	Drill Permit	4705102108	WV	Marshall	Union	WVDEP	11/30/2018	11/30/2020	28 Timmi Lane, Glen Dale, WV 26038
Hazlett M14H	Drill Permit	4705102109	WV	Marshall	Union	WVDEP	11/30/2018	11/30/2020	28 Timmi Lane, Glen Dale, WV 26038
Hazlett M15H	Drill Permit	4705102110	WV	Marshall	Union	WVDEP	11/30/2018	11/30/2020	28 Timmi Lane, Glen Dale, WV 26038
Hazlett M16H	Drill Permit	4705102111	WV	Marshall	Union	WVDEP	11/30/2018	11/30/2020	28 Timmi Lane, Glen Dale, WV 26038
Hazlett M17H	Drill Permit	4705102112	WV	Marshall	Union	WVDEP	11/30/2018	11/30/2020	28 Timmi Lane, Glen Dale, WV 26038
Headlee 9H	Drill Permit	37-059-25342	PA	Greene	Cumberland	PA DEP SWRO	10/22/2009	10/22/2010	159 Creek Road, Carmichaels, PA 15320
Helen Lash Pad A	ESCGP 1	ESX12-129-0021	PA	Westmoreland	Sewickley	PA DEP SWRO	11/19/2012	11/18/2017	132 Bealls Run Road, Mt Morris, PA 15349
Hendrickson 1H	Drill Permit	37-059-26751-00-01	PA	Greene	Dunkard	PA DEP SWRO	2/16/2018	2/16/2019	132 Bealls Run Road, Mt Morris, PA 15349
Hendrickson 2H	Drill Permit	37-059-26895-00-00	PA	Greene	Dunkard	PA DEP SWRO	2/7/2018	2/7/2019	132 Bealls Run Road, Mt Morris, PA 15349
Hendrickson 3H	Drill Permit	37-059-26896-00-00	PA	Greene	Dunkard	PA DEP SWRO	2/7/2018	2/7/2019	132 Bealls Run Road, Mt Morris, PA 15349
Hendrickson 4H	Drill Permit	37-059-26897-00-00	PA	Greene	Dunkard	PA DEP SWRO	6/22/2015	6/21/2016	132 Bealls Run Road, Mt Morris, PA 15349
Hendrickson 4HA	Drill Permit	37-059-27632-00-00	PA	Greene	Dunkard	PA DEP SWRO	2/7/2018	2/6/2019	132 Bealls Run Road, Mt Morris, PA 15349
Hendrickson 5H	Drill Permit	37-059-26898-00-00	PA	Greene	Dunkard	PA DEP SWRO	2/7/2018	2/7/2019	132 Bealls Run Road, Mt Morris, PA 15349
Hendrickson 6H	Drill Permit	37-059-26899-00-00	PA	Greene	Dunkard	PA DEP SWRO	2/7/2018	2/7/2019	132 Bealls Run Road, Mt Morris, PA 15349
Hendrickson Pad A	ESCGP 2	ESX14-059-0066	PA	Greene	Dunkard	PA DEP SWRO	2/5/2015	2/4/2020	132 Bealls Run Road, Mt Morris, PA 15349
Hendrickson Pad A	GP7 – Access Road Stream Crossing	GP07300714006	PA	Greene	Dunkard	PA DEP SWRO	12/22/2014		132 Bealls Run Road, Mt Morris, PA 15349
Hendrickson Pad A	GP7 – Access Road Stream Crossing	GP07300714006	PA	Greene	Dunkard	PA DEP SWRO	12/16/2014		132 Bealls Run Road, Mt Morris, PA 15349
HEPLER 1H	OG 0071b	1169792	PA	Westmoreland	South Huntingdon	PA DEP SWRO	2/23/2017	N/A	1035 Nickleville Kahle Lake Road, Emlenton, PA 16373
HEPLER 2H	OG 0071b	1169792	PA	Westmoreland	South Huntingdon	PA DEP SWRO	2/23/2017	N/A	1035 Nickleville Kahle Lake Road, Emlenton, PA 16373
HEPLER 3H	OG 0071b	1169792	PA	Westmoreland	South Huntingdon	PA DEP SWRO	2/23/2017	N/A	1035 Nickleville Kahle Lake Road, Emlenton, PA 16373
Hepler Farm M01V	Drill Permit	37-129-29085	PA	Westmoreland	South Huntingdon	PA DEP SWRO	09/11/2019	09/11/2020	1035 Nickleville Kahle Lake Road, Emlenton, PA 16373
Hepler Farm Pad A	ESCGP 3	ESG076519004-00	PA	Westmoreland	South Huntingdon	PA DEP	11/19/2019	11/17/2024	
Hepler Pad A	ESCGP 1	ESX10-129-0022	PA	Westmoreland	South Huntingdon	PA DEP SWRO	8/20/2010	8/19/2015	1035 Nickleville Kahle Lake Road, Emlenton, PA 16373
Herminie North Centralized Water Facility	WMGR	WMGR123SW033	PA	Westmoreland	Sewickley	PA DEP SWRO	06/06/2019	10/04/2020	
Herminie North Infrastructure	GP4 - Intake and Outfall Structure	GP046507219-001	PA	Westmoreland		PA DEP	11/04/2019		
Herminie North Infrastructure	GP8 – Utility Crossing/Temp Access	GP086507219-015	PA	Westmoreland		PA DEP	11/04/2019	11/03/2020	
Herminie North Infrastructure	GP5 – Utility Crossing/Temp Access	GP056507219-014	PA	Westmoreland		PA DEP	11/19/2019		
Herminie North Infrastructure	GP8 – Utility Crossing/Temp Access	GP06507219-014	PA	Westmoreland		PA DEP	11/19/2019	11/18/2020	
Herminie South Centralized Water Facility	WMGR	WMGR123SW029	PA	Westmoreland	South Huntingdon	PA DEP SWRO	11/16/18	10/4/2020	Mt. Pleasant Road, West Newton, PA 15433
Herminie South Centralized Water Facility	WMGR	WMGR123SW029	PA	Westmoreland	South Huntingdon	PA DEP SWRO	11/16/2018	10/04/2020	
Herminie South Waterline System	GP-05 Utility Line Stream Crossing	GP05650718-003	PA	Westmoreland	South Huntingdon	PA DEP SWRO	12/06/18	N/A	N/A
Herminie South Waterline System	GP-08 Temporary Road Crossing	GP08650718-005	PA	Westmoreland	South Huntingdon	PA DEP SWRO	12/06/18	N/A	N/A
Herminie South Waterline System	ESCGP 2	ESX18-129-0007	PA	Westmoreland	South Huntingdon	PA DEP SWRO	12/21/2018	12/20/2023	
Herminie South Waterline System	GP5 – Utility Crossing/Temp Access	GP05650718-003	PA	Westmoreland	South Huntingdon	PA DEP SWRO	12/06/2018		
Herminie South Waterline System	GP8 – Utility Crossing/Temp Access	GP08650718-005	PA	Westmoreland	South Huntingdon	PA DEP SWRO	12/06/2018		
Herminie South Waterline System	ESCGP 3	ESX18-129-0007	PA	Westmoreland	South Huntingdon	PA DEP	12/19/2019	12/17/2024	
Herminie South Waterline System	GP5 – Utility Crossing/Temp Access	GP05650718-003	PA	Westmoreland	South Huntingdon	PA DEP	11/04/2019		
Herminie South Waterline System	GP8 – Utility Crossing/Temp Access	GP08650718-005	PA	Westmoreland	South Huntingdon	PA DEP	11/04/2019	11/03/2020	
Herminie South Youghiogheny River	Water Management Plan	Source 83	PA	Westmoreland	South Huntingdon	PA DEP SWRO	11/13/2018	11/13/2023	
Herminie South Youghiogheny River Intake	GP-4 SLLA	GP04650718-001	PA	Westmoreland	South Huntingdon	PA DEP SWRO	12/06/18	N/A	N/A
Herminie South Youghiogheny River Intake	GP4 - Intake and Outfall Structure	GP04650718-001	PA	Westmoreland	South Huntingdon	PA DEP SWRO	12/06/2018		
Herrington Pad A	ESCGP 1	ESX12-051-0005	PA	Fayette	Bullskin	PA DEP SWRO	5/29/2012	5/28/2017	589 North Bell View Road, Connellsville, PA 15425

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Herriott 1	Drill Permit	37-051-24649	PA	Fayette	German	PA DEP SWRO	2/23/2018	2/23/2019	266 College Avenue, McClellandtown, PA 15458
Herriott M02H	Drill Permit	37-051-24701	PA	Fayette	German	PA DEP SWRO	03/30/2020	03/30/2021	266 College Avenue, McClellandtown, PA 15458
Herriott M03H	Drill Permit	37-051-24704	PA	Fayette	German	PA DEP SWRO	03/30/2020	03/30/2021	266 College Avenue, McClellandtown, PA 15458
Herriott M04H	Drill Permit	37-051-24698	PA	Fayette	German	PA DEP SWRO	03/30/2020	03/30/2021	266 College Avenue, McClellandtown, PA 15458
Herriott M05H	Drill Permit	37-051-24699	PA	Fayette	German	PA DEP SWRO	03/30/2020	03/30/2021	266 College Avenue, McClellandtown, PA 15458
Herriott M06H	Drill Permit	37-051-24700	PA	Fayette	German	PA DEP SWRO	03/30/2020	03/30/2021	266 College Avenue, McClellandtown, PA 15458
Herriott M07H	Drill Permit	37-051-24702	PA	Fayette	German	PA DEP SWRO	03/30/2020	03/30/2021	266 College Avenue, McClellandtown, PA 15458
Herriott M08H	Drill Permit	37-051-24703	PA	Fayette	German	PA DEP SWRO	03/30/2020	03/30/2021	266 College Avenue, McClellandtown, PA 15458
Herriott M09H	Drill Permit	37-051-24705	PA	Fayette	German	PA DEP SWRO	03/30/2020	03/30/2021	266 College Avenue, McClellandtown, PA 15458
Herriott Pad A	ESCGP 2	ESX18-051-0002	PA	Fayette	German	PA DEP SWRO	9/27/2018	9/26/2023	266 College Avenue, McClellandtown, PA 15458
Hice 1H	Drill Permit	37-059-26975-00-00	PA	Greene	Jefferson	PA DEP SWRO	10/26/2015	10/26/2016	268 Sharpnack Hollow Road, Jefferson, PA 15344
Hice 2H	Drill Permit	37-059-26976-00-00	PA	Greene	Jefferson	PA DEP SWRO	10/26/2015	10/26/2016	268 Sharpnack Hollow Road, Jefferson, PA 15344
Hice 3H	Drill Permit	37-059-26852-00-00	PA	Greene	Jefferson	PA DEP SWRO	4/13/2015	4/13/2016	268 Sharpnack Hollow Road, Jefferson, PA 15344
Hice 4H	Drill Permit	37-059-26977-00-00	PA	Greene	Jefferson	PA DEP SWRO	10/26/2015	10/26/2016	268 Sharpnack Hollow Road, Jefferson, PA 15344
Hice 6H	Drill Permit	37-059-26979-00-00	PA	Greene	Jefferson	PA DEP SWRO	10/26/2015	10/26/2016	268 Sharpnack Hollow Road, Jefferson, PA 15344
Hice 7H	Drill Permit	37-059-26980-00-00	PA	Greene	Jefferson	PA DEP SWRO	10/26/2015	10/26/2016	268 Sharpnack Hollow Road, Jefferson, PA 15344
Hice 8H	Drill Permit	37-059-26981-00-00	PA	Greene	Jefferson	PA DEP SWRO	10/26/2015	10/26/2016	268 Sharpnack Hollow Road, Jefferson, PA 15344
Hice 9H	Drill Permit	37-059-26982-00-00	PA	Greene	Jefferson	PA DEP SWRO	10/26/2015	10/26/2016	268 Sharpnack Hollow Road, Jefferson, PA 15344
Hice Pad A	ESCGP 2	ESX15-059-0006	PA	Greene	Jefferson	PA DEP SWRO	9/14/2015	9/12/2020	268 Sharpnack Hollow Road, Jefferson, PA 15344
Hicks 10H	Drill Permit	47-051-01995	WV	Marshall	Clay	WVDEP	4/4/2018	4/3/2020	271 Arbor Lane, Moundsville, WV 26041
Hicks 11H	Drill Permit	47-051-02001	WV	Marshall	Clay	WVDEP	5/31/2018	5/31/2020	271 Arbor Lane, Moundsville, WV 26041
Hicks 12H	Drill Permit	47-051-02002	WV	Marshall	Clay	WVDEP	6/1/2018	6/1/2020	271 Arbor Lane, Moundsville, WV 26041
Hicks 13H	Drill Permit	47-051-02003	WV	Marshall	Clay	WVDEP	6/1/2018	6/1/2020	271 Arbor Lane, Moundsville, WV 26041
Hicks 14H	Drill Permit	47-051-02004	WV	Marshall	Clay	WVDEP	6/1/2018	6/1/2020	271 Arbor Lane, Moundsville, WV 26041
Hicks 1H	Drill Permit	4705101897	WV	Marshall	Clay	WVDEP	2/23/2017	2/23/2019	271 Arbor Lane, Moundsville, WV 26041
Hicks 20H	Drill Permit	47-051-01996	WV	Marshall	Clay	WVDEP	4/4/2018	4/3/2020	271 Arbor Lane, Moundsville, WV 26041
Hicks 20H	Drill Permit	47-051-01996	WV	Marshall	Clay	WVDEP	4/4/2018	4/3/2020	271 Arbor Lane, Moundsville, WV 26041
Hicks 21H	Drill Permit	47-051-01997	WV	Marshall	Clay	WVDEP	4/4/2018	4/3/2020	271 Arbor Lane, Moundsville, WV 26041
Hicks 2H	Drill Permit	4705101898	WV	Marshall	Clay	WVDEP	2/23/2017	2/23/2019	271 Arbor Lane, Moundsville, WV 26041
Hicks 3H	Drill Permit	4705101899	WV	Marshall	Clay	WVDEP	2/23/2017	2/23/2019	271 Arbor Lane, Moundsville, WV 26041
Hicks 4H	Drill Permit	4705101900	WV	Marshall	Clay	WVDEP	2/23/2017	2/23/2019	271 Arbor Lane, Moundsville, WV 26041
Hicks 5H	Drill Permit	4705101913	WV	Marshall	Clay	WVDEP	2/23/2017	2/23/2019	271 Arbor Lane, Moundsville, WV 26041
Hicks 6H	Drill Permit	4705101901	WV	Marshall	Clay	WVDEP	2/23/2017	2/23/2019	271 Arbor Lane, Moundsville, WV 26041
Hicks 7H	Drill Permit	4705101902	WV	Marshall	Clay	WVDEP	2/23/2017	2/23/2019	271 Arbor Lane, Moundsville, WV 26041
Hicks 8H	Drill Permit	47-051-01993	WV	Marshall	Clay	WVDEP	4/4/2018	4/3/2020	271 Arbor Lane, Moundsville, WV 26041
Hicks 8H	Drill Permit	47-051-01993	WV	Marshall	Clay	WVDEP	4/4/2018	4/3/2020	271 Arbor Lane, Moundsville, WV 26041
Hicks 9H	Drill Permit	47-051-01994	WV	Marshall	Clay	WVDEP	4/4/2018	4/3/2020	271 Arbor Lane, Moundsville, WV 26041
Hicks M15H	Drill Permit	4705102162	WV	Marshall	Clay	WVDEP	02/21/2019	02/21/2021	271 Arbor Lane, Moundsville, WV 26041
Hicks M16H	Drill Permit	4705102163	WV	Marshall	Clay	WVDEP	02/21/2019	02/21/2021	271 Arbor Lane, Moundsville, WV 26041
Hicks M17H	Drill Permit	4705102164	WV	Marshall	Clay	WVDEP	02/21/2019	02/21/2021	271 Arbor Lane, Moundsville, WV 26041
Hicks M18H	Drill Permit	4705102165	WV	Marshall	Clay	WVDEP	02/21/2019	02/21/2021	271 Arbor Lane, Moundsville, WV 26041
Hicks M19H	Drill Permit	4705102166	WV	Marshall	Clay	WVDEP	02/21/2019	02/21/2021	271 Arbor Lane, Moundsville, WV 26041
Hindman 3H	Drill Permit	37-019-21917	PA	Butler	Washington	PA DEP NWRO	12/15/2011	12/14/2012	578 Fairview Road, Petrolia, PA 16050
Hindman Pad A	ESCGP 1	ESX11-019-0078	PA	Butler	Washington	PA DEP NWRO	8/29/2011	8/27/2016	578 Fairview Road, Petrolia, PA 16050
Hines M01H	Drill Permit	4705102155	WV	Marshall	Washington	WVDEP	02/22/2019	02/21/2021	1256 Campbell Hill Road, Moundsville, WV 26041
Hines M02H	Drill Permit	4705102156	WV	Marshall	Washington	WVDEP	02/22/2019	02/21/2021	1256 Campbell Hill Road, Moundsville, WV 26041
Hines M03H	Drill Permit	4705102157	WV	Marshall	Washington	WVDEP	02/22/2019	02/21/2021	1256 Campbell Hill Road, Moundsville, WV 26041
Hines M04H	Drill Permit	47-051-01926-00-00	WV	Marshall	Washington	WVDEP	4/5/2018	4/4/2020	1256 Campbell Hill Road, Moundsville, WV 26041
Hines M05H	Drill Permit	47-051-01927-00-00	WV	Marshall	Washington	WVDEP	4/5/2018	4/4/2020	1256 Campbell Hill Road, Moundsville, WV 26041
Hines M06H	Drill Permit	47-051-01928-00-00	WV	Marshall	Washington	WVDEP	4/5/2018	4/4/2020	1256 Campbell Hill Road, Moundsville, WV 26041

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Hines M07H	Drill Permit	47-051-01929-00-00	WV	Marshall	Washington	WVDEP	4/5/2018	4/4/2020	1256 Campbell Hill Road, Moundsville, WV 26041
Hines M08H	Drill Permit	47-051-01930-00-00	WV	Marshall	Washington	WVDEP	4/5/2018	4/4/2020	1256 Campbell Hill Road, Moundsville, WV 26041
Hines M09H	Drill Permit	47-051-01931-00-00	WV	Marshall	Washington	WVDEP	4/5/2018	4/4/2020	1256 Campbell Hill Road, Moundsville, WV 26041
Hines M10H	Drill Permit	47-051-01932-00-00	WV	Marshall	Washington	WVDEP	4/5/2018	4/4/2020	1256 Campbell Hill Road, Moundsville, WV 26041
Hines M11H	Drill Permit	47-051-01933-00-00	WV	Marshall	Washington	WVDEP	4/5/2018	4/4/2020	1256 Campbell Hill Road, Moundsville, WV 26041
Hines M12H	Drill Permit	47-051-02084-00-00	WV	Marshall	Washington	WVDEP	10/4/2018	10/4/2020	1256 Campbell Hill Road, Moundsville, WV 26041
Hines M13H	Drill Permit	4705102158	WV	Marshall	Washington	WVDEP	02/22/2019	02/21/2021	1256 Campbell Hill Road, Moundsville, WV 26041
Hines M14H	Drill Permit	4705102159	WV	Marshall	Washington	WVDEP	02/22/2019	02/21/2021	1256 Campbell Hill Road, Moundsville, WV 26041
Hines M18H	Drill Permit	47-051-02085-00-00	WV	Marshall	Washington	WVDEP	10/4/2018	10/4/2020	1256 Campbell Hill Road, Moundsville, WV 26041
Hines M19H	Drill Permit	47-051-02086-00-00	WV	Marshall	Washington	WVDEP	10/5/2018	10/5/2020	1256 Campbell Hill Road, Moundsville, WV 26041
Hines M20H	Drill Permit	47-051-02087-00-00	WV	Marshall	Washington	WVDEP	10/5/2018	10/5/2020	1256 Campbell Hill Road, Moundsville, WV 26041
Hines M21H	Drill Permit	47-051-02088-00-00	WV	Marshall	Washington	WVDEP	10/5/2018	10/5/2020	1256 Campbell Hill Road, Moundsville, WV 26041
Hoehn Pad A	GP7 – Access Road Stream Crossing	GP07260711-002	PA	Fayette	Luzerne	PA DEP SWRO	2/8/2012		381 Palmer Adah Road, Adah, PA 15410
Hoehn Pad A	ESCGP 1	ESX10-051-0033	PA	Fayette	Luzerne	PA DEP SWRO	5/22/2012	5/21/2017	381 Palmer Adah Road, Adah, PA 15410
Hoehn Pad A	GP7 – Access Road Stream Crossing	GP07260711-002	PA	Fayette	Luzerne	PA DEP SWRO	2/8/2012		381 Palmer Adah Road, Adah, PA 15410
Hoehn Pad A Salesline	ESCGP 2	ESX14-051-0002	PA	Fayette	Luzerne	PA DEP NCRO	3/10/2014	3/9/2019	381 Palmer Adah Road, Adah, PA 15410
Hoehn Unit 10H	Drill Permit	37-051-24529	PA	Fayette	Luzerne	PA DEP SWRO	12/11/2012	12/11/2013	381 Palmer Adah Road, Adah, PA 15410
Hoehn Unit 11H	Drill Permit	37-051-24530	PA	Fayette	Luzerne	PA DEP SWRO	12/11/2012	12/11/2013	381 Palmer Adah Road, Adah, PA 15410
Hoehn Unit 12H	Drill Permit	37-051-24531-00,01	PA	Fayette	Luzerne	PA DEP SWRO	6/3/2014	6/3/2015	381 Palmer Adah Road, Adah, PA 15410
Hoehn Unit 7H	Drill Permit	37-051-24526	PA	Fayette	Luzerne	PA DEP SWRO	12/10/2012	12/10/2013	381 Palmer Adah Road, Adah, PA 15410
Hoehn Unit 8H	Drill Permit	37-051-24527	PA	Fayette	Luzerne	PA DEP SWRO	6/3/2014	6/3/2015	381 Palmer Adah Road, Adah, PA 15410
Hoehn Unit 9H	Drill Permit	37-051-24528	PA	Fayette	Luzerne	PA DEP SWRO	12/11/2012	12/11/2013	381 Palmer Adah Road, Adah, PA 15410
Hostutler 10H	Drill Permit	47-5101862	WV	Marshall	Clay	WVDEP	9/30/2015	9/30/2017	114 Nathan Lane, Moundsville, WV 26041
Hostutler 12H	Drill Permit	47-5101863	WV	Marshall	Clay	WVDEP	9/30/2015	9/30/2017	114 Nathan Lane, Moundsville, WV 26041
Hostutler 8H	Drill Permit	47-5101861	WV	Marshall	Clay	WVDEP	9/30/2015	9/30/2017	114 Nathan Lane, Moundsville, WV 26041
Howe Pad A	ESCGP 1	ESX14-051-0003	PA	Fayette	Luzerne	PA DEP SWRO	9/19/2017	9/18/2022	381 Palmer Adah Road, Adah, PA 15410
Howe Pad A Salesline	ESCGP 2	ESX14-051-0003	PA	Fayette	Luzerne	PA DEP SWRO	2/27/2014	2/26/2019	381 Palmer Adah Road, Adah, PA 15410
Howe Unit 5H	Drill Permit	37-051-24558	PA	Fayette	Luzerne	PA DEP SWRO	3/12/2013	3/12/2014	381 Palmer Adah Road, Adah, PA 15410
Howe Unit 6H	Drill Permit	37-051-24559	PA	Fayette	Luzerne	PA DEP SWRO	3/12/2013	3/12/2014	381 Palmer Adah Road, Adah, PA 15410
Howe Unit 7H	Drill Permit	37-051-24560	PA	Fayette	Luzerne	PA DEP SWRO	3/12/2013	3/12/2014	381 Palmer Adah Road, Adah, PA 15410
Howe Unit 8H	Drill Permit	37-051-24561	PA	Fayette	Luzerne	PA DEP SWRO	3/12/2013	3/12/2014	381 Palmer Adah Road, Adah, PA 15410
Hurtt 3H	Drill Permit	37-085-24637-00-00, 01-00	PA	Mercer	East Lackawannock	PA DEP NWRO	10/15/2012	10/15/2013	433 Rodgers Road, New Wilmington, PA 16142
Hurtt 4H	Drill Permit	37-085-24638	PA	Mercer	East Lackawannock	PA DEP NWRO	10/3/2012	10/3/2013	433 Rodgers Road, New Wilmington, PA 16142
Hurtt Pad A	ESCGP 1	ESX12-085-0007	PA	Mercer	East Lackawannock	PA DEP NWRO	9/15/2017	9/14/2022	433 Rodgers Road, New Wilmington, PA 16142
Huss Pad A	ESCGP 3	ESG076519006-00	PA	Westmoreland	Sewickley	PA DEP	02/13/2020	02/11/2025	
Jackson Farms 37HA	Drill Permit	37-051-24369	PA	Fayette	Redstone	PA DEP SWRO	6/30/2010	6/30/2011	544 Stone Church Road, New Salem, PA 15468
Jackson Farms 38H	Drill Permit	37-051-24373	PA	Fayette	Redstone	PA DEP SWRO	7/8/2010	7/8/2011	544 Stone Church Road, New Salem, PA 15468
Jackson Farms 39H	Drill Permit	37-051-24372	PA	Fayette	Redstone	PA DEP SWRO	7/8/2010	7/8/2011	544 Stone Church Road, New Salem, PA 15468
Jackson Farms 41H	Drill Permit	37-051-24487	PA	Fayette	Menallen	PA DEP SWRO	1/11/2012	1/10/2013	88 Hatfield Road, Smock, PA 15480
Jackson Farms 42H	Drill Permit	37-051-24488	PA	Fayette	Menallen	PA DEP SWRO	1/11/2012	1/10/2013	88 Hatfield Road, Smock, PA 15480
Jackson Farms 43H	Drill Permit	37-051-24489	PA	Fayette	Menallen	PA DEP SWRO	1/11/2012	1/10/2013	88 Hatfield Road, Smock, PA 15480
Jackson Farms Pad	ESCGP 1	ESX11-051-0028	PA	Fayette	Menallen	PA DEP SWRO	10/17/2012	10/16/2017	88 Hatfield Road, Smock, PA 15480
Jackson Farms Pad (41H-43H)	Stream Crossing	2012-1578	PA	Fayette	Redstone	ACOE	11/20/2012	11/19/2017	88 Hatfield Road, Smock, PA 15480
Jackson Farms Pad (41H-43H)	ESCGP 1	ESX09-051-0016	PA	Fayette	Redstone	PA DEP SWRO	4/4/2011	4/2/2016	88 Hatfield Road, Smock, PA 15480
Janitor Pad A	ESCGP 1	ESX12-129-0012	PA	Westmoreland	Sewickley	PA DEP SWRO	8/9/2012	8/8/2017	268 Sharpnack Hollow Road, Jefferson, PA 15344
JAREK 7	OG 0071b	1174721	PA	Greene	Cumberland	PA DEP SWRO	4/5/2017	N/A	630 Crucible Road, Rices Landing, PA 15357
Johnson Pad A	ESCGP 2	ESX12-059-0020	PA	Greene	Greene	PA DEP SWRO	1/30/2014	1/29/2019	434 Garards Fort Road, Waynesburg, PA 15370

Project Name	Permit Type	Permit Number	State	County	Township	Regulatory Agency	Permit Issued Date	Permit Expiration Date	911 Address
Johnson Pad A	GP5 – Utility Crossing/Temp Access Road	GP05300713031	PA	Greene	Greene	PA DEP SWRO	02/07/14		434 Garards Fort Road, Waynesburg, PA 15370
Johnson Pad A	GP8 – Utility Crossing/Temp Access Road	GP08300713034	PA	Greene	Greene	PA DEP SWRO	2/7/2014	2/7/2015	434 Garards Fort Road, Waynesburg, PA 15370
Johnson Unit 16H	Drill Permit	37-059-26092	PA	Greene	Greene	PA DEP SWRO	2/7/2013	2/7/2014	434 Garards Fort Road, Waynesburg, PA 15370
Johnson Unit 17H	Drill Permit	37-059-26093	PA	Greene	Greene	PA DEP SWRO	2/7/2013	2/7/2014	434 Garards Fort Road, Waynesburg, PA 15370
Jordan 21H	Drill Permit	37-059-25248	PA	Greene	Dunkard	PA DEP SWRO	7/10/2009	7/10/2010	199 Bobtown Road, Dilliner, PA 15327
Jordan 22H	Drill Permit	37-059-25249	PA	Greene	Dunkard	PA DEP SWRO	7/17/2009	7/17/2010	199 Bobtown Road, Dilliner, PA 15327
Jordan Pad	ESCGP 1	ESX09-059-0030	PA	Greene	Dunkard	PA DEP SWRO	8/4/2009	8/3/2014	199 Bobtown Road, Dilliner, PA 15327
Jordan Pad	ESCGP 1	ESX10-059-0065	PA	Greene	Dunkard	PA DEP SWRO	4/14/2011	4/12/2016	199 Bobtown Road, Dilliner, PA 15327
Jordan Unit 28H	Drill Permit	37-059-25565	PA	Greene	Dunkard	PA DEP SWRO	8/25/2010	8/25/2011	199 Bobtown Road, Dilliner, PA 15327
Jordan Unit 29H	Drill Permit	37-059-25564	PA	Greene	Dunkard	PA DEP SWRO	9/2/2010	9/2/2011	199 Bobtown Road, Dilliner, PA 15327
JP Smith 10H	Drill Permit	37-129-28989	PA	Westmoreland	South Huntingdon	PA DEP SWRO	1/18/2018	1/18/2019	87 Strikertown Road, West Newton, PA 15089
JP Smith 11H	Drill Permit	37-129-28990	PA	Westmoreland	South Huntingdon	PA DEP SWRO	1/18/2018	1/18/2019	87 Strikertown Road, West Newton, PA 15089
JP Smith 12H	Drill Permit	37-129-28986	PA	Westmoreland	South Huntingdon	PA DEP SWRO	1/18/2018	1/18/2019	87 Strikertown Road, West Newton, PA 15089
JP Smith 13H	Drill Permit	37-129-28987	PA	Westmoreland	South Huntingdon	PA DEP SWRO	1/18/2018	1/18/2019	87 Strikertown Road, West Newton, PA 15089
JP Smith 14H	Drill Permit	37-129-28988	PA	Westmoreland	South Huntingdon	PA DEP SWRO	1/18/2018	1/18/2019	87 Strikertown Road, West Newton, PA 15089
JP Smith 1H	Drill Permit	37-129-28979	PA	Westmoreland	South Huntingdon	PA DEP SWRO	06/05/2019	06/04/2020	87 Strikertown Road, West Newton, PA 15089
JP Smith 2H	Drill Permit	37-129-28980	PA	Westmoreland	South Huntingdon	PA DEP SWRO	06/05/2019	06/04/2020	87 Strikertown Road, West Newton, PA 15089
JP Smith 3H	Drill Permit	37-129-28981	PA	Westmoreland	South Huntingdon	PA DEP SWRO	1/18/2018	1/18/2019	87 Strikertown Road, West Newton, PA 15089
JP Smith 4H	Drill Permit	37-129-28923-00-00	PA	Westmoreland	South Huntingdon	PA DEP SWRO	7/27/2017	4/7/2019	87 Strikertown Road, West Newton, PA 15089
JP Smith 4H	Drill Permit	37-129-28985	PA	Westmoreland	South Huntingdon	PA DEP SWRO	1/18/2018	1/18/2019	87 Strikertown Road, West Newton, PA 15089
JP Smith 5H	Drill Permit	37-129-28978	PA	Westmoreland	South Huntingdon	PA DEP SWRO	06/05/2019	06/04/2020	87 Strikertown Road, West Newton, PA 15089
JP Smith 6H	Drill Permit	37-129-28977	PA	Westmoreland	South Huntingdon	PA DEP SWRO	06/05/2019	06/04/2020	87 Strikertown Road, West Newton, PA 15089
JP Smith 7H	Drill Permit	37-129-28982	PA	Westmoreland	South Huntingdon	PA DEP SWRO	06/05/2019	06/04/2020	87 Strikertown Road, West Newton, PA 15089
JP Smith 8H	Drill Permit	37-129-28983	PA	Westmoreland	South Huntingdon	PA DEP SWRO	06/05/2019	06/04/2020	87 Strikertown Road, West Newton, PA 15089
JP Smith 9H	Drill Permit	37-129-28984	PA	Westmoreland	South Huntingdon	PA DEP SWRO	06/05/2019	06/04/2020	87 Strikertown Road, West Newton, PA 15089
JP Smith Pad A	ESCGP 2	ESX15-129-0007	PA	Westmoreland	South Huntingdon	PA DEP SWRO	11/18/2015	11/16/2020	87 Strikertown Road, West Newton, PA 15089
JP Smith Pad A	OG 0071b	1214775	PA	Westmoreland	South Huntingdon	PA DEP SWRO	2/7/2018	N/A	87 Strikertown Road, West Newton, PA 15089
Kaminsky 1H	Drill Permit	37-129-28763	PA	Westmoreland	Sewickley	PA DEP SWRO	10/28/2011	10/27/2012	461 Herminie Road, Herminie, PA 15637
Kaminsky 2H	Drill Permit	37-129-28764	PA	Westmoreland	Sewickley	PA DEP SWRO	10/28/2011	10/27/2012	461 Herminie Road, Herminie, PA 15637
Kaminsky 3H	Drill Permit	37-129-28765	PA	Westmoreland	Sewickley	PA DEP SWRO	10/28/2011	10/27/2012	461 Herminie Road, Herminie, PA 15637
Kaminsky Pad A	ESCGP 2	ESX11-129-0017	PA	Westmoreland	Sewickley	PA DEP SWRO	7/19/2013	7/18/2018	461 Herminie Road, Herminie, PA 15637
Kaminsky4H	Drill Permit	37-129-28766	PA	Westmoreland	Sewickley	PA DEP SWRO	10/27/2011	10/26/2012	461 Herminie Road, Herminie, PA 15637
Kieffer 2H	Drill Permit	37-059-25785	PA	Greene	Jefferson	PA DEP SWRO	12/27/2010	12/27/2011	372 Adamik Road, Clarksville, PA 15322
Kieffer 3H	Drill Permit	37-059-25650	PA	Greene	Jefferson	PA DEP SWRO	12/27/2010	12/27/2011	372 Adamik Road, Clarksville, PA 15322
Kieffer 4H	Drill Permit	37-059-25651	PA	Greene	Jefferson	PA DEP SWRO	12/27/2010	12/27/2011	372 Adamik Road, Clarksville, PA 15322
Kieffer Pad A	ESCGP 1	ESX09-059-0059	PA	Greene	Jefferson	PA DEP SWRO	12/21/2010	12/20/2015	372 Adamik Road, Clarksville, PA 15322
Kikta 1H	Drill Permit	37-051-24468	PA	Fayette	North Union	PA DEP SWRO	9/23/2011	9/22/2012	222 Cutler Road, Smock, PA 15480
Kikta 1H	OG 0071b	1169792	PA	Fayette	North Union	PA DEP SWRO	2/28/2017	N/A	222 Cutler Road, Smock, PA 15480
Kikta 2H	Drill Permit	37-051-24469	PA	Fayette	North Union	PA DEP SWRO	9/30/2011	9/29/2012	222 Cutler Road, Smock, PA 15480
Kikta 2H	OG 0071b	1169792	PA	Fayette	North Union	PA DEP SWRO	2/28/2017	N/A	222 Cutler Road, Smock, PA 15480
Kikta 3H	Drill Permit	37-051-24470	PA	Fayette	North Union	PA DEP SWRO	9/23/2011	9/22/2012	222 Cutler Road, Smock, PA 15480
Kikta 3H	OG 0071b	1169792	PA	Fayette	North Union	PA DEP SWRO	2/28/2017	N/A	222 Cutler Road, Smock, PA 15480
Kikta 4H	Drill Permit	37-051-24471	PA	Fayette	North Union	PA DEP SWRO	9/30/2011	9/29/2012	222 Cutler Road, Smock, PA 15480
Kikta 4H	OG 0071b	1169792	PA	Fayette	North Union	PA DEP SWRO	2/28/2017	N/A	222 Cutler Road, Smock, PA 15480
Kikta Pad A	ESCGP 1	ESX10-051-0044	PA	Fayette	North Union	PA DEP SWRO	5/25/2012	5/24/2017	222 Cutler Road, Smock, PA 15480
Kirchner Pad A	ESCGP 1	ESX09-051-0021	PA	Fayette	German	PA DEP SWRO	7/10/2009	7/9/2014	120 Hounsaker Farm Road, Masontown, PA 15461

Project Name	Permit Type	Permit Number	State	County	Township	Regulatory Agency	Permit Issued Date	Permit Expiration Date	911 Address
Kirchner Unit 2H	Drill Permit	37-051-24261	PA	Fayette	German	PA DEP SWRO	8/19/2009	8/19/2010	120 Hounsaker Farm Road, Masontown, PA 15461
Kirchner Unit 4H	Drill Permit	37-051-24259	PA	Fayette	German	PA DEP SWRO	7/24/2009	7/24/2010	120 Hounsaker Farm Road, Masontown, PA 15461
Knight 14H	Drill Permit	37-051-24537	PA	Fayette	Springhill	PA DEP SWRO	10/5/2013	10/5/2014	325 Mustard Lane, Lake Lynn, PA 15451
Knight 15H	Drill Permit	37-051-24538	PA	Fayette	Springhill	PA DEP SWRO	10/5/2013	10/5/2014	325 Mustard Lane, Lake Lynn, PA 15451
Knight 16H	Drill Permit	37-051-24539	PA	Fayette	Springhill	PA DEP SWRO	10/5/2013	10/5/2014	325 Mustard Lane, Lake Lynn, PA 15451
Knight 17H	Drill Permit	37-051-24540-00,01	PA	Fayette	Springhill	PA DEP SWRO	3/25/2014	3/25/2015	325 Mustard Lane, Lake Lynn, PA 15451
Knight 18H	Drill Permit	37-051-24541	PA	Fayette	Springhill	PA DEP SWRO	10/11/2013	10/11/2014	325 Mustard Lane, Lake Lynn, PA 15451
Knight 19H	Drill Permit	37-051-24542	PA	Fayette	Springhill	PA DEP SWRO	10/11/2013	10/11/2014	325 Mustard Lane, Lake Lynn, PA 15451
Knight 20H	Drill Permit	37-051-24543	PA	Fayette	Springhill	PA DEP SWRO	10/11/2013	10/11/2014	325 Mustard Lane, Lake Lynn, PA 15451
Knight Pad A	ESCGP 2	ESX11-051-0026	PA	Fayette	Springhill	PA DEP SWRO	7/12/2013	7/11/2018	325 Mustard Lane, Lake Lynn, PA 15451
Knight Pad A	GP5 – Utility Crossing/Temp Access Road	GP05260714005	PA	Fayette	Springhill	PA DEP SWRO	01/06/15		325 Mustard Lane, Lake Lynn, PA 15451
Knight Pad A Salesline	ESCGP 2	ESX14-051-0013	PA	Fayette	Springhill	PA DEP SWRO	12/17/2014	12/16/2019	325 Mustard Lane, Lake Lynn, PA 15451
Knight Pad A Salesline	GP8 – Utility Crossing/Temp Access Road	GP08260713-002	PA	Fayette	Springhill	PA DEP SWRO	1/6/2015	1/6/2016	325 Mustard Lane, Lake Lynn, PA 15451
Kovach B 1	Drill Permit	37-051-24640	PA	Fayette	German	PA DEP SWRO	2/22/2018	2/22/2019	206 Mary Hall Road, McClellandtown, PA 15458
Kovach B M01H	Drill Permit	37-051-24671	PA	Fayette	German	PA DEP SWRO	12/05/2019	12/04/2020	206 Mary Hall Road, McClellandtown, PA 15458
Kovach B M02H	Drill Permit	37-051-24672	PA	Fayette	German	PA DEP SWRO	02/03/2020	02/02/2021	206 Mary Hall Road, McClellandtown, PA 15458
Kovach B M03H	Drill Permit	37-051-24674	PA	Fayette	German	PA DEP SWRO	02/03/2020	02/02/2021	206 Mary Hall Road, McClellandtown, PA 15458
Kovach B M04H	Drill Permit	37-051-24666	PA	Fayette	German	PA DEP SWRO	02/03/2020	02/02/2021	206 Mary Hall Road, McClellandtown, PA 15458
Kovach B M05H	Drill Permit	37-051-24667	PA	Fayette	German	PA DEP SWRO	02/03/2020	02/02/2021	206 Mary Hall Road, McClellandtown, PA 15458
Kovach B M06H	Drill Permit	37-051-24673	PA	Fayette	German	PA DEP SWRO	02/03/2020	02/02/2021	206 Mary Hall Road, McClellandtown, PA 15458
Kovach B M07H	Drill Permit	37-051-24668	PA	Fayette	German	PA DEP SWRO	02/03/2020	02/02/2021	206 Mary Hall Road, McClellandtown, PA 15458
Kovach B M08H	Drill Permit	37-051-24669	PA	Fayette	German	PA DEP SWRO	02/03/2020	02/02/2021	206 Mary Hall Road, McClellandtown, PA 15458
Kovach B M09H	Drill Permit	37-051-24670	PA	Fayette	German	PA DEP SWRO	02/03/2020	02/02/2021	206 Mary Hall Road, McClellandtown, PA 15458
Kovach Pad B	ESCGP 2	ESX17-051-0003	PA	Fayette	German	PA DEP SWRO	2/28/2018	2/27/2023	206 Mary Hall Road, McClellandtown, PA 15458
Kovach Pad B	ESCGP 2	ESX17-051-0003	PA	Fayette	German	PA DEP SWRO	7/24/2018	7/23/2023	206 Mary Hall Road, McClellandtown, PA 15458
Kurutz 10H	Drill Permit	37-051-24406	PA	Fayette	Dunbar	PA DEP SWRO	11/23/2010	11/23/2011	210 Race Path Road, Dunbar, PA 15431
Kurutz 11H	Drill Permit	37-051-24407	PA	Fayette	Dunbar	PA DEP SWRO	11/23/2010	11/23/2011	210 Race Path Road, Dunbar, PA 15431
Kurutz 12H	Drill Permit	37-051-24408	PA	Fayette	Dunbar	PA DEP SWRO	11/23/2010	11/23/2011	210 Race Path Road, Dunbar, PA 15431
Kurutz Pad A	ESCGP 2	ESX10-051-0042	PA	Fayette	Dunbar	PA DEP SWRO	5/7/2014	5/6/2019	210 Race Path Road, Dunbar, PA 15431
Lanco 6H	Drill Permit	37-059-25887	PA	Greene	Dunkard	PA DEP SWRO	11/15/2011	11/14/2012	146 Water Tank Road, Dilliner, PA 15327
Lanco 6H-8H	GP5 – Utility Crossing/Temp Access Road	GP053011808	PA	Greene	Dunkard	PA DEP SWRO	06/28/11		146 Water Tank Road, Dilliner, PA 15327
Lanco 7H	Drill Permit	37-059-25888	PA	Greene	Dunkard	PA DEP SWRO	1/6/2012	1/5/2013	146 Water Tank Road, Dilliner, PA 15327
Lanco 8H	Drill Permit	37-059-25889	PA	Greene	Dunkard	PA DEP SWRO	1/6/2012	1/5/2013	146 Water Tank Road, Dilliner, PA 15327
Lanco Pad	GP7 – Access Road Stream Crossing	GP073101801	PA	Greene	Dunkard	PA DEP SWRO	6/28/2011		146 Water Tank Road, Dilliner, PA 15327
Lanco Pad A	ESCGP 1	ESX11-059-0027	PA	Greene	Dunkard	PA DEP SWRO	1/17/2017	1/16/2022	146 Water Tank Road, Dilliner, PA 15327
Lanco Pad A Salesline	ESCGP 2	ESX14-059-0006	PA	Greene	Dunkard	PA DEP SWRO	3/17/2014	3/16/2019	146 Water Tank Road, Dilliner, PA 15327
Lanco Pad B	ESCGP 1	ESX12-059-0043	PA	Greene	Dunkard	PA DEP SWRO	12/26/2012	12/25/2017	354 Bald Hill Church Road, Dilliner, PA 15327
Lanco Pad B Salesline	ESCGP 2	ESX14-059-0046	PA	Greene	Dunkard	PA DEP SWRO	8/5/2014	8/4/2019	354 Bald Hill Church Road, Dilliner, PA 15327
Lanco Unit 10H	Drill Permit	37-059-26137	PA	Greene	Dunkard	PA DEP SWRO	8/22/2014	8/22/2015	354 Bald Hill Church Road, Dilliner, PA 15327
Lanco Unit 11H	Drill Permit	37-059-26138	PA	Greene	Dunkard	PA DEP SWRO	11/8/2013	11/8/2014	354 Bald Hill Church Road, Dilliner, PA 15327
Lanco Unit 12H	Drill Permit	37-059-26295	PA	Greene	Dunkard	PA DEP SWRO	11/8/2013	11/8/2014	354 Bald Hill Church Road, Dilliner, PA 15327
Lanco Unit 9H	Drill Permit	37-059-26136-00,01	PA	Greene	Dunkard	PA DEP SWRO	11/8/2013	11/8/2014	354 Bald Hill Church Road, Dilliner, PA 15327
Latkanich 1H	Drill Permit	37-125-24461	PA	Washington	Deemston	PA DEP SWRO	6/29/2011	6/28/2012	180 Stimmel Road, Fredericktown, PA 15333

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Latkanich 2H	Drill Permit	37-125-24460	PA	Washington	Deemston	PA DEP SWRO	6/29/2011	6/28/2012	180 Stimmel Road, Fredericktown, PA 15333
Latkanich Pad A	ESCGP 2	ESX11-125-0026	PA	Washington	Deemston	PA DEP SWRO	12/9/2013	12/8/2018	180 Stimmel Road, Fredericktown, PA 15333
Latkanich Pad A	GP5 – Utility Crossing/Temp Access Road	GP05630712-022	PA	Washington	Deemston	PA DEP SWRO	08/09/12		180 Stimmel Road, Fredericktown, PA 15333
Latkanich Pad A	GP8 – Utility Crossing/Temp Access Road	GP08630712-017	PA	Washington	Deemston	PA DEP SWRO	8/9/2012	8/9/2013	180 Stimmel Road, Fredericktown, PA 15333
Latkanich Pad A	ESCGP 3	ESG076320004-00	PA	Washington	Deemston	PA DEP SWRO	04/06/2020	04/05/2025	180 Stimmel Road, Fredericktown, PA 15333
Lee Pad A	ESCGP 1	ESX11-051-0031	PA	Fayette	Redstone	PA DEP SWRO	7/30/2017	7/29/2018	411 Fords Hill Road, Grindstone, PA 15442
Lee Unit 14H	Drill Permit	37-051-24486	PA	Fayette	Redstone	PA DEP SWRO	12/14/2011	12/13/2012	411 Fords Hill Road, Grindstone, PA 15442
Lee Unit 15H	Drill Permit	37-051-24485	PA	Fayette	Redstone	PA DEP SWRO	12/14/2011	12/13/2012	411 Fords Hill Road, Grindstone, PA 15442
Lenz Pad A	ESCGP 1	ESX12-129-0018	PA	Westmoreland	Hempfield	PA DEP SWRO	8/21/2012	8/20/2017	No Address - Not Built
Leonhard 2H	Drill Permit	37-019-22029-00,01	PA	Butler	Fairview	PA DEP NWRO	3/5/2013	3/5/2014	230 Basswood Road, Fairview, PA 16415
Leonhard Pad A	ESCGP 1	ESX13-019-0003	PA	Butler	Fairview	PA DEP NWRO	2/6/2013	2/5/2018	230 Basswood Road, Fairview, PA 16415
Lester 10H	Drill Permit	37-051-24563	PA	Fayette	Jefferson	PA DEP SWRO	3/12/2013	3/12/2014	272 Williams Road, Fayette City, PA 15438
Lester 11H	Drill Permit	37-051-24564	PA	Fayette	Jefferson	PA DEP SWRO	3/12/2013	3/12/2014	272 Williams Road, Fayette City, PA 15438
Lester 12H	Drill Permit	37-051-24565	PA	Fayette	Jefferson	PA DEP SWRO	3/12/2013	3/12/2014	272 Williams Road, Fayette City, PA 15438
Lester 13H	Drill Permit	37-051-24566-00	PA	Fayette	Jefferson	PA DEP SWRO	3/12/2013	3/12/2014	272 Williams Road, Fayette City, PA 15438
Lester 9H	Drill Permit	37-051-24562	PA	Fayette	Jefferson	PA DEP SWRO	3/12/2013	3/12/2014	272 Williams Road, Fayette City, PA 15438
Lester Pad A	ESCGP 2	ESX10-051-0023	PA	Fayette	Jefferson	PA DEP SWRO	3/12/2014	3/11/2019	211 Williams Road, Fayette City, PA 15438
Lester Pad B	ESCGP 1	ESX13-051-0002	PA	Fayette	Jefferson	PA DEP NCRO	3/22/2013	3/21/2018	272 Williams Road Fayette City, PA 15438
Lester Unit 4H	Drill Permit	37-051-24504	PA	Fayette	Jefferson	PA DEP SWRO	3/14/2011	3/13/2012	211 Williams Road, Fayette City, PA 15438
Lester Unit 5H	Drill Permit	37-051-24505	PA	Fayette	Jefferson	PA DEP SWRO	3/14/2011	3/13/2012	211 Williams Road, Fayette City, PA 15438
Lester Unit 6H	Drill Permit	37-051-24506	PA	Fayette	Jefferson	PA DEP SWRO	3/14/2011	3/13/2012	211 Williams Road, Fayette City, PA 15438
Lester Unit 7H	Drill Permit	37-051-24507	PA	Fayette	Jefferson	PA DEP SWRO	4/11/2012	4/11/2013	211 Williams Road, Fayette City, PA 15438
Lester Unit 8H	Drill Permit	37-051-24508	PA	Fayette	Jefferson	PA DEP SWRO	4/11/2012	4/11/2013	211 Williams Road, Fayette City, PA 15438
Liberty Land A 1	ESCGP 2	ESG073019008-22	PA	Greene	Dunkard	PA DEP	09/26/2019	09/24/2024	106 Steel Hill Road, Dilliner, PA 15327
Liberty Land A 1	Drill Permit	37-059-27869	PA	Greene	Dunkard	PA DEP SWRO	05/29/2019	05/29/2020	106 Steel Hill Road, Dilliner, PA 15327
Liggett 1	Drill Permit	37-051-24634	PA	Fayette	Luzerne	PA DEP SWRO	8/27/2015	8/27/2016	201 Krepps Lane, East Millsboro, PA 15433
Liggett Pad A	ESCGP 2	ESX15-051-0008	PA	Fayette	Luzerne	PA DEP SWRO	10/26/2015	10/24/2020	201 Krepps Lane, East Millsboro, PA 15433
Liptak Pad A	ESCGP 1	ESX12-051-0006	PA	Fayette	Jefferson	PA DEP SWRO	6/21/2012	6/20/2017	208 Chalfant Road, Perryopolis, PA 15473
Longworth	Right of Entry	LS-16-1/25-1664	WV	Marshall	Washington	WV Office of Lan	11/15/2016	11/15/2026	5962 Roberts Ridge Road, Moundsville, WV 26041
Longworth	NWP 39 PCN	LRP-2016-1810	WV	Marshall	Clay	ACOE	2/16/2017	3/18/2017	5962 Roberts Ridge Road, Moundsville, WV 26041
Longworth M02H	Drill Permit	47-051-02079	WV	Marshall	Clay	WVDEP	9/17/2018	9/17/2020	5962 Roberts Ridge Road, Moundsville, WV 26041
Longworth M03H	Drill Permit	47-051-01903	WV	Marshall	Clay	WVDEP	3/3/2017	3/3/2019	5962 Roberts Ridge Road, Moundsville, WV 26041
Longworth M04H	Drill Permit	47-051-01904	WV	Marshall	Clay	WVDEP	3/3/2017	3/3/2019	5962 Roberts Ridge Road, Moundsville, WV 26041
Longworth M05H	Drill Permit	47-051-01914	WV	Marshall	Clay	WVDEP	3/3/2017	3/3/2019	5962 Roberts Ridge Road, Moundsville, WV 26041
Longworth M05H	Drill Permit	47-051-01914-00-00	WV	Marshall	Clay	WVDEP	1/29/2018	1/29/2020	5962 Roberts Ridge Road, Moundsville, WV 26041
Longworth M06H	Drill Permit	47-051-01916-00-00	WV	Marshall	Clay	WVDEP	1/29/2018	1/29/2020	5962 Roberts Ridge Road, Moundsville, WV 26041
Longworth M07H	Drill Permit	47-051-01917-00-00	WV	Marshall	Clay	WVDEP	1/29/2018	1/29/2020	5962 Roberts Ridge Road, Moundsville, WV 26041
Longworth M08H	Drill Permit	4705102128	WV	Marshall	Clay	WVDEP	01/25/2019	01/24/2021	5962 Roberts Ridge Road, Moundsville, WV 26041
Longworth M09H	Drill Permit	4705102129	WV	Marshall	Clay	WVDEP	01/25/2019	01/24/2021	5962 Roberts Ridge Road, Moundsville, WV 26041
Longworth M10H	Drill Permit	4705102130	WV	Marshall	Clay	WVDEP	01/25/2019	01/24/2021	5962 Roberts Ridge Road, Moundsville, WV 26041
Longworth M11H	Drill Permit	4705102131	WV	Marshall	Clay	WVDEP	01/25/2019	01/24/2021	5962 Roberts Ridge Road, Moundsville, WV 26041
Longworth M12H	Drill Permit	4705102132	WV	Marshall	Clay	WVDEP	01/25/2019	01/24/2021	5962 Roberts Ridge Road, Moundsville, WV 26041
Longworth M13H	Drill Permit	47-051-02080	WV	Marshall	Clay	WVDEP	9/18/2018	9/18/2020	5962 Roberts Ridge Road, Moundsville, WV 26041
Longworth M14H	Drill Permit	47-051-02081	WV	Marshall	Clay	WVDEP	9/17/2018	9/17/2020	5962 Roberts Ridge Road, Moundsville, WV 26041
Longworth M15H	Drill Permit	47-051-02082	WV	Marshall	Clay	WVDEP	9/17/2018	9/17/2020	5962 Roberts Ridge Road, Moundsville, WV 26041
Longworth M16H	Drill Permit	47-051-02083	WV	Marshall	Clay	WVDEP	9/18/2018	9/18/2020	5962 Roberts Ridge Road, Moundsville, WV 26041

Project Name	Permit Type	Permit Number	State	County	Township	Regulatory Agency	Permit Issued Date	Permit Expiration Date	911 Address
Mack Pad A	ESCGP 2	ESX15-059-0016	PA	Greene	Jefferson	PA DEP SWRO	12/24/2015	12/22/2020	1846 Jefferson Road, Rices Landing, PA 15357
Marshall County	NPDES/Multi Sector	WVG670863	WV	Marshall		WVDEP	08/23/2019	NA	
Marshall County	NPDES/Multi Sector	WVR311416	WV	Marshall		WVDEP	08/30/2019	NA	
Marshall Water Infrastructure	Right of Entry Permit	R-19-I/52-2179	WV	Marshall		WV DNR	11/12/2019		
Marshall Water Infrastructure	Right of Entry Permit	P-19-I/52-2178	WV	Marshall		WV DNR	11/12/2019		
Marshall Water Infrastructure	WV/NPDES/Multi Sector	WVG611781	WV	Marshall		WVDEP	12/13/2019		
Martin 1H	Drill Permit	37-051-24602-00	PA	Fayette	Franklin	PA DEP SWRO	1/23/2014	1/23/2015	626 Crabapple Road, Perryopolis, PA 15473
Martin 2H	Drill Permit	37-051-24603-00-00,01-00	PA	Fayette	Franklin	PA DEP SWRO	1/23/2014	1/23/2015	626 Crabapple Road, Perryopolis, PA 15473
Martin 3H	Drill Permit	37-051-24605-00	PA	Fayette	Franklin	PA DEP SWRO	1/23/2014	1/23/2015	626 Crabapple Road, Perryopolis, PA 15473
Martin 4H	Drill Permit	37-051-24606-00	PA	Fayette	Franklin	PA DEP SWRO	1/23/2014	1/23/2015	626 Crabapple Road, Perryopolis, PA 15473
Martin Pad A	ESCGP 2	ESX13-051-0008	PA	Fayette	Franklin	PA DEP NCRO	1/29/2014	1/28/2019	626 Crabapple Road, Perryopolis, PA 15473
Maruszewski Pad A	ESCGP 1	ESX10-051-0021	PA	Fayette	Menallen	PA DEP SWRO	7/22/2010	7/21/2015	326 Upper Middletown Road, Smock, PA 15480
Marynchak Pad A	GP7 – Access Road Stream Crossing	GP07630711-003	PA	Washington	Centerville	PA DEP SWRO	10/3/2011		206 Dague Road, Brownsville, PA 15417
Marynchak Pad A	ESCGP 1	ESX-11-125-0051	PA	Washington	Centerville	PA DEP SWRO	8/29/2017	9/29/2018	206 Dague Road, Brownsville, PA 15417
Marynchak Unit 1H	Drill Permit	37-125-24648	PA	Washington	Centerville	PA DEP SWRO	1/4/2012	1/3/2013	206 Dague Road, Brownsville, PA 15417
Marynchak Unit 2H	Drill Permit	37-125-24649	PA	Washington	Centerville	PA DEP SWRO	1/4/2012	1/3/2013	206 Dague Road, Brownsville, PA 15417
Marynchak Unit 3H	Drill Permit	37-125-24650	PA	Washington	Centerville	PA DEP SWRO	1/4/2012	1/3/2013	206 Dague Road, Brownsville, PA 15417
Marynchak Unit 4H	Drill Permit	37-125-24651	PA	Washington	Centerville	PA DEP SWRO	1/4/2012	1/3/2013	206 Dague Road, Brownsville, PA 15417
Marynchak Unit 5H	Drill Permit	37-125-24652	PA	Washington	Centerville	PA DEP SWRO	1/4/2012	1/3/2013	206 Dague Road, Brownsville, PA 15417
Mason M01H	Drill Permit	4705102233	WV	Marshall	Franklin	WVDEP	07/11/2019	07/11/2021	1236 Cecil Ridge Road, Proctor, WV 26055
Mason M02H	Drill Permit	4705102234	WV	Marshall	Franklin	WVDEP	07/11/2019	07/11/2021	1236 Cecil Ridge Road, Proctor, WV 26055
Mason M03H	Drill Permit	4705102235	WV	Marshall	Franklin	WVDEP	07/11/2019	07/11/2021	1236 Cecil Ridge Road, Proctor, WV 26055
Mason M04H	Drill Permit	4705102236	WV	Marshall	Franklin	WVDEP	07/11/2019	07/11/2021	1236 Cecil Ridge Road, Proctor, WV 26055
Mason M09H	Drill Permit	4705102237	WV	Marshall	Franklin	WVDEP	07/11/2019	07/11/2021	1236 Cecil Ridge Road, Proctor, WV 26055
Mason M10H	Drill Permit	4705102188	WV	Marshall	Franklin	WVDEP	04/30/2019	04/30/2021	1236 Cecil Ridge Road, Proctor, WV 26055
Mason Pad A	Right of Entry Permit	R-19-I/25-274	WV	Marshall	Franklin	WV DNR	02/05/2019	02/05/2020	1236 Cecil Ridge Road, Proctor, WV 26055
Mason Pad A	Right of Entry Permit	R-19-I/25-275	WV	Marshall	Franklin	WV DNR	02/05/2019	02/05/2020	1236 Cecil Ridge Road, Proctor, WV 26055
Mason Pad A	Nation Wide Army Corp Permi	LRP-2019-0087	WV	Marshall	Franklin	USACE	03/04/2019	03/02/2024	1236 Cecil Ridge Road, Proctor, WV 26055
Matty Momyer 3H	Drill Permit	37-129-28730	PA	Westmoreland	South Huntingdon	PA DEP SWRO	12/23/2011	12/22/2012	167 Momyer Road, Smithton, PA 15479
Matty Momyer 4H	Drill Permit	37-129-28731	PA	Westmoreland	South Huntingdon	PA DEP SWRO	12/23/2011	12/22/2012	167 Momyer Road, Smithton, PA 15479
Matty Momyer Pad A	ESCGP 1	EXS09-129-0022	PA	Westmoreland	South Huntingdon	PA DEP SWRO	1/2/2013	1/1/2018	167 Momyer Road, Smithton, PA 15479
McCullough Pad A	ESCGP 2	ESX13-085-0014	PA	Mercer	Jefferson	PA DEP NWRO	7/22/2013	7/21/2018	303 Charleston Road, Sharpsville, PA 16150
McCullough Unit 1H	Drill Permit	37-085-24669	PA	Mercer	Jefferson	PA DEP NWRO	9/5/2013	9/5/2014	303 Charleston Road, Sharpsville, PA 16150
McCullough Unit 2H	Drill Permit	37-085-24664-01-00	PA	Mercer	Jefferson	PA DEP NWRO	7/12/2013	7/12/2014	303 Charleston Road, Sharpsville, PA 16150
Milesky 1H	Drill Permit	37-059-25729	PA	Greene	Center	PA DEP SWRO	3/15/2012	3/15/2013	2225 Oak Forest Road, Waynesburg, PA 15370
Milesky 2H	Drill Permit	37-059-25928	PA	Greene	Center	PA DEP SWRO	3/15/2012	3/15/2013	2225 Oak Forest Road, Waynesburg, PA 15370
Milesky Pad A	GP7 – Access Road Stream Crossing	GP07300712-010	PA	Greene	Center	PA DEP SWRO	8/14/2012		2225 Oak Forest Road, Waynesburg, PA 15370
Milesky Pad A	ESCGP 1	ESX11-059-0036	PA	Greene	Center	PA DEP SWRO	3/14/2018	3/13/2023	2225 Oak Forest Road, Waynesburg, PA 15370
Miller Pad A	ESCGP 1	ESX11-059-0057	PA	Greene	Greene	PA DEP SWRO	9/27/2016	9/26/2021	144 Greene Lakes Road, Mount Morris, PA 15349
Miller Pad A Salesline	ESCGP 1	ESX11-059-0057	PA	Greene	Greene	PA DEP SWRO	9/3/2014	9/2/2019	144 Greene Lakes Road, Mount Morris, PA 15349
Miller Unit 77H	Drill Permit	37-059-26113	PA	Greene	Dunkard	PA DEP SWRO	4/29/2013	4/29/2014	144 Greene Lakes Road, Mount Morris, PA 15349
Miller Unit 78H	Drill Permit	37-059-26114	PA	Greene	Dunkard	PA DEP SWRO	4/29/2013	4/29/2014	144 Greene Lakes Road, Mount Morris, PA 15349
Miller Unit 79H	Drill Permit	37-059-26170	PA	Greene	Dunkard	PA DEP SWRO	5/17/2013	5/17/2014	144 Greene Lakes Road, Mount Morris, PA 15349
Miller Unit 80H	Drill Permit	37-059-26115	PA	Greene	Dunkard	PA DEP SWRO	2/28/2013	2/28/2014	144 Greene Lakes Road, Mount Morris, PA 15349
Miller Unit 81H	Drill Permit	37-059-26171	PA	Greene	Dunkard	PA DEP SWRO	5/17/2013	5/17/2014	144 Greene Lakes Road, Mount Morris, PA 15349
Miller Unit 82H	Drill Permit	37-059-26172	PA	Greene	Greene	PA DEP SWRO	5/17/2013	5/17/2014	144 Greene Lakes Road, Mount Morris, PA 15349
Miller Unit 76H	Drill Permit	37-059-26116-00-02	PA	Greene	Dunkard	PA DEP SWRO	12/17/2013	12/17/2014	144 Greene Lakes Road, Mount Morris, PA 15349
Milyo 1H	Drill Permit	37-031-25600	PA	Clarion	Washington	PA DEP NWRO	6/8/2012	6/8/2013	24429 Route 208, Tionesta, PA 16353

Project Name	Permit Type	Permit Number	State	County	Township	Regulatory Agency	Permit Issued Date	Permit Expiration Date	911 Address
Milyo 2H	Drill Permit	37-031-25601	PA	Clarion	Washington	PA DEP NWRO	6/8/2012	6/8/2013	24429 Route 208, Tionesta, PA 16353
Milyo Pad A	ESCGP 1	ESX11-031-0024	PA	Clarion	Washington	PA DEP NWRO	10/25/2011	10/23/2016	24429 Route 208, Tionesta, PA 16353
Mon River in Luzerne Township 4H/Dog	GP4 - Intake and Outfall Struct	GP04260715001	PA	Fayette	Luzerne	PA DEP SWRO	05/05/2016		
Mon River in Springhill Township	GP4 - Intake and Outfall Struct	GP04260714001	PA	Fayette	Springhill	PA DEP SWRO	01/05/2015		
Monongahela River	Water Management Plan	Source 74	PA	Fayette	Springhill	PA DEP SWRO	06/11/2019	06/11/2024	
Monongahela River	Water Management Plan	Source 74	PA	Fayette	Springhill	PA DEP SWRO	05/20/2014	05/20/2019	
Monongahela River Water Intake	GP-4 SLLA	GP04260714001	PA	Fayette	Springhill	PA DEP SWRO	1/5/2015	N/A	N/A
Monongahela River Water Intake	GP-4 SLLA	GP04260715001	PA	Fayette	Luzerne	PA DEP SWRO	5/5/2016	N/A	N/A
Monongahela River-4H Dogbone	Water Management Plan	Source 47	PA	Fayette	Luzerne	PA DEP SWRO	01/14/2019	01/14/2024	
Monongahela River-at Robena	Water Management Plan	Source 80	PA	Greene	Monongahela	PA DEP SWRO	03/18/2016	07/08/2020	
Monongahela River-Shared with Appala	Water Management Plan	Source 71	PA	Fayette	Masontown	PA DEP SWRO	11/24/2014	01/21/2019	
Mutnansky 10H	Drill Permit	37-051-24421	PA	Fayette	North Union	PA DEP SWRO	1/24/2011	1/24/2012	183 Malenock Lane, Uniontown, PA 15401
Mutnansky 11H	Drill Permit	37-051-24422	PA	Fayette	North Union	PA DEP SWRO	1/28/2011	1/28/2012	183 Malenock Lane, Uniontown, PA 15401
Mutnansky 12H	Drill Permit	37-051-24423	PA	Fayette	North Union	PA DEP SWRO	1/24/2011	1/24/2012	183 Malenock Lane, Uniontown, PA 15401
Mutnansky 9H	Drill Permit	37-051-24420	PA	Fayette	North Union	PA DEP SWRO	1/24/2011	1/24/2012	183 Malenock Lane, Uniontown, PA 15401
Mutnansky Pad A	ESCGP 1	ESX10-051-0011	PA	Fayette	North Union	PA DEP SWRO	5/6/2010	5/5/2015	183 Malenock Lane, Uniontown, PA 15401
National Mines 26H	Drill Permit	37-051-24365	PA	Fayette	Luzerne	PA DEP SWRO	6/7/2010	6/7/2011	175 Isabella Road, East Millsboro, PA 15433
NATIONAL MINES 26H	OG 0071b	1169792	PA	Fayette	Luzerne	PA DEP SWRO	8/23/2017	N/A	175 Isabella Road, East Millsboro, PA 15433
National Mines Pad A	ESCGP 1	ESX09-051-0035	PA	Fayette	Luzerne	PA DEP SWRO	10/5/2009	10/4/2014	175 Isabella Road, East Millsboro, PA 15433
Nicodemus 3H	Drill Permit	37-019-22037	PA	Butler	Washington	PA DEP NWRO	3/5/2013	3/5/2014	300 Nico Lane, Petrolia, PA 16050
Nicodemus Pad A	ESCGP 1	ESX12-019-0131	PA	Butler	Washington	PA DEP NWRO	3/12/2013	3/11/2018	300 Nico Lane, Petrolia, PA 16050
Nied 1H	Drill Permit	37-059-25865	PA	Greene	Greene	PA DEP SWRO	3/8/2013	3/8/2014	460 Woods Run Road, Carmichaels, PA 15320
Nied 2H	Drill Permit	37-059-25857	PA	Greene	Greene	PA DEP SWRO	2/13/2013	2/13/2014	460 Woods Run Road, Carmichaels, PA 15320
Nied 3H	Drill Permit	37-059-25866	PA	Greene	Greene	PA DEP SWRO	3/8/2013	3/8/2014	460 Woods Run Road, Carmichaels, PA 15320
Nied Pad A	ESCGP 2	ESX11-059-0037	PA	Greene	Greene	PA DEP SWRO	9/28/2016	9/27/2021	460 Woods Run Road, Carmichaels, PA 15320
Nied Pad A Salesline	ESCGP 2	ESX14-059-0033	PA	Greene	Greene	PA DEP SWRO	6/17/2014	6/6/2019	460 Woods Run Road, Carmichaels, PA 15320
North Fayette Water Authority -Braddoc	Water Management Plan	Source 24	PA	Fayette	North Union	PA DEP SWRO	08/22/2016	08/15/2021	
Otte M15H	Drill Permit	4705102210	WV	Marshall	Washington	WVDEP	06/18/2019	06/18/2021	1790 Grandview Road, Moundsville, WV 26041
Painter Pad A	ESCGP 1	ESX11-129-0023	PA	Westmoreland	South Huntingdon	PA DEP SWRO	8/5/2011	8/3/2016	197 Painter Road, Smithton, PA 15479
PBG Smith Pad A	ESCGP 2	ESX13-059-0043	PA	Greene	Dunkard	PA DEP SWRO	10/29/2013	10/28/2018	199 Red Covered Bridge Road, Mt Morris, PA 15349
PBG-Smith Unit 10H	Drill Permit	37-059-26345-00	PA	Greene	Dunkard	PA DEP SWRO	12/17/2013	12/17/2014	199 Red Covered Bridge Road, Mt Morris, PA 15349
PBG-Smith Unit 1H	Drill Permit	37-059-26347-11,01	PA	Greene	Dunkard	PA DEP SWRO	12/16/2014	12/16/2015	199 Red Covered Bridge Road, Mt Morris, PA 15349
PBG-Smith Unit 2H	Drill Permit	37-059-26337-00	PA	Greene	Dunkard	PA DEP SWRO	12/17/2013	12/17/2014	199 Red Covered Bridge Road, Mt Morris, PA 15349
PBG-Smith Unit 3H	Drill Permit	37-059-26338-00	PA	Greene	Dunkard	PA DEP SWRO	12/16/2014	12/16/2015	199 Red Covered Bridge Road, Mt Morris, PA 15349
PBG-Smith Unit 4H	Drill Permit	37-059-26339-00	PA	Greene	Dunkard	PA DEP SWRO	12/16/2014	12/16/2015	199 Red Covered Bridge Road, Mt Morris, PA 15349
PBG-Smith Unit 5H	Drill Permit	37-059-26341-00	PA	Greene	Dunkard	PA DEP SWRO	12/16/2014	12/16/2015	199 Red Covered Bridge Road, Mt Morris, PA 15349
PBG-Smith Unit 6H	Drill Permit	37-059-26340-00	PA	Greene	Dunkard	PA DEP SWRO	12/17/2013	12/17/2014	199 Red Covered Bridge Road, Mt Morris, PA 15349
PBG-Smith Unit 7H	Drill Permit	37-059-26342-00	PA	Greene	Dunkard	PA DEP SWRO	12/17/2013	12/17/2014	199 Red Covered Bridge Road, Mt Morris, PA 15349
PBG-Smith Unit 8H	Drill Permit	37-059-26343-00	PA	Greene	Dunkard	PA DEP SWRO	12/17/2013	12/17/2014	199 Red Covered Bridge Road, Mt Morris, PA 15349
PBG-Smith Unit 9H	Drill Permit	37-059-26344-00	PA	Greene	Dunkard	PA DEP SWRO	12/17/2013	12/17/2014	199 Red Covered Bridge Road, Mt Morris, PA 15349
Plassio 6H	Drill Permit	37-129-28687	PA	Westmoreland	Sewickley	PA DEP SWRO	3/22/2013	3/22/2014	2157 Mars Hill Road, Sutersville, PA 15083
Plassio 7H	Drill Permit	37-129-28688	PA	Westmoreland	Sewickley	PA DEP SWRO	10/12/2012	10/12/2013	2157 Mars Hill Road, Sutersville, PA 15083
Plassio 8H	Drill Permit	37-129-28820	PA	Westmoreland	Sewickley	PA DEP SWRO	10/12/2011	10/11/2012	2157 Mars Hill Road, Sutersville, PA 15083
Plassio Pad A	ESCGP 1	ESX11-129-0018	PA	Westmoreland	Sewickley	PA DEP SWRO	7/28/2011	7/26/2016	2157 Mars Hill Road, Sutersville, PA 15083
Plassio Pad A	ESCGP 2	ESX11-129-0018	PA	Westmoreland	Sewickley	PA DEP SWRO	3/13/2015	3/11/2020	2157 Mars Hill Road, Sutersville, PA 15083
PMG Raby Unit 1H	Drill Permit	37-021-21166	PA	Cambria	Adams	PA DEP SWRO	12/8/2010	12/8/2011	598 Rosey Ridge, Sidman, PA 15955
PMG Raby Unit 2H	Drill Permit	37-021-21176	PA	Cambria	Adams	PA DEP SWRO	3/29/2011	3/28/2012	598 Rosey Ridge, Sidman, PA 15955
PMG Raby Unit 3H	Drill Permit	37-021-21175	PA	Cambria	Adams	PA DEP SWRO	6/23/2011	6/23/2012	598 Rosey Ridge, Sidman, PA 15955
Polk 2H	Drill Permit	37-051-24429-00-01	PA	Fayette	Wharton	PA DEP SWRO	2/28/2011	2/28/2012	2664 Dinner Bell Five Forks Road, Farmington, PA 15437
Polk 3H	Drill Permit	37-051-24514-00	PA	Fayette	Wharton	PA DEP SWRO	7/27/2012	7/27/2013	2664 Dinner Bell Five Forks Road, Farmington, PA 15437

Project Name	Permit Type	Permit Number	State	County	Township	Regulatory Agen	Permit Issued D	Permit Expiration Date	911 Address
Polk 4H	Drill Permit	37-051-24431-00-01	PA	Fayette	Wharton	PA DEP SWRO	2/28/2011	2/28/2012	2664 Dinner Bell Five Forks Road, Farmington, PA 15437
Polk 5H	Drill Permit	37-051-24432-00-01	PA	Fayette	Wharton	PA DEP SWRO	2/28/2011	2/28/2012	2664 Dinner Bell Five Forks Road, Farmington, PA 15437
Porter Naylor 27H	Drill Permit	37-051-24544	PA	Fayette	Perry	PA DEP SWRO	10/22/2012	10/22/2013	570 Porter Mcnutt Lane, Belle Vernon, PA 15012
Porter Naylor 28H	Drill Permit	37-051-24545	PA	Fayette	Perry	PA DEP SWRO	3/17/2014	3/17/2015	570 Porter Mcnutt Lane, Belle Vernon, PA 15012
Porter Naylor 37H	Drill Permit	37-051-24546	PA	Fayette	Perry	PA DEP SWRO	10/22/2012	10/22/2013	570 Porter Mcnutt Lane, Belle Vernon, PA 15012
Porter Naylor 38H	Drill Permit	37-051-24547	PA	Fayette	Perry	PA DEP SWRO	3/17/2014	3/17/2015	570 Porter Mcnutt Lane, Belle Vernon, PA 15012
Porter Naylor 39H	Drill Permit	37-051-24548	PA	Fayette	Perry	PA DEP SWRO	3/17/2014	3/17/2015	570 Porter Mcnutt Lane, Belle Vernon, PA 15012
Porter Naylor Pad A	GP7 – Access Road Stream Crossing	GP07650711-004	PA	Fayette	Perry	PA DEP SWRO	12/30/2012		570 Porter Mcnutt Lane, Belle Vernon, PA 15012
Porter Naylor Pad A Salesline	ESCGP 2	ESX14-051-0001	PA	Fayette	Perry	PA DEP NCRO	3/7/2014	3/6/2019	570 Porter Mcnutt Lane, Belle Vernon, PA 15012
Porter Well Connect Pipeline	Stream Crossing	2013-2142	PA	Fayette	Perry	ACOE	12/30/2013	12/29/2018	570 Porter Mcnutt Lane, Belle Vernon, PA 15012
Porter/Naylor Pad A	ESCGP 2	ESX11-051-0030	PA	Fayette	Perry	PA DEP SWRO	8/7/2017	10/5/2017	570 Porter Mcnutt Lane, Belle Vernon, PA 15012
Pritts 3H	Drill Permit	37-051-24257	PA	Fayette	Lower Tyrone	PA DEP SWRO	7/22/2009	7/22/2010	638 Dawson Scottdale Road, Dawson, PA 15428
PRITTS 3H	OG 0071b	1174721	PA	Fayette	Lower Tyrone	PA DEP SWRO	4/6/2017	N/A	638 Dawson Scottdale Road, Dawson, PA 15428
Rankin 2H	Drill Permit	37-059-25772	PA	Greene	Morgan	PA DEP SWRO	6/29/2011	6/28/2012	191 Pump Station Road, Clarksville, PA 15322
Rankin 3H	Drill Permit	37-059-25773	PA	Greene	Morgan	PA DEP SWRO	6/29/2011	6/28/2012	191 Pump Station Road, Clarksville, PA 15322
Rankin 4H	Drill Permit	37-059-25774	PA	Greene	Morgan	PA DEP SWRO	6/29/2011	6/28/2012	191 Pump Station Road, Clarksville, PA 15322
Rankin Pad A	ESCGP 1	EXS11-059-0029	PA	Greene	Morgan	PA DEP SWRO	3/8/2012	3/7/2017	191 Pump Station Road, Clarksville, PA 15322
Reamer Pad A	ESCGP 1	ESX11-129-0047	PA	Westmoreland	South Huntingdon	PA DEP SWRO	2/21/2012	2/19/2017	156 Mel Road, West Newton, PA 15089
Reamer Pad A	ESCGP 1	ESX11-129-0047	PA	Westmoreland	South Huntingdon	PA DEP SWRO	8/28/2017	8/27/2022	156 Mel Road, West Newton, PA 15089
Reamer Pad A Salesline	ESCGP 2	ESX14-129-0005	PA	Westmoreland	South Huntingdon	PA DEP SWRO	8/28/2014	8/27/2019	156 Mel Road, West Newton, PA 15089
Reamer Unit 10H	Drill Permit	37-129-28837	PA	Westmoreland	South Huntingdon	PA DEP SWRO	2/11/2013	2/11/2014	156 Mel Road, West Newton, PA 15089
Reamer Unit 11H	Drill Permit	37-129-28838	PA	Westmoreland	South Huntingdon	PA DEP SWRO	2/11/2013	2/11/2014	156 Mel Road, West Newton, PA 15089
Reamer Unit 9H	Drill Permit	37-129-28836	PA	Westmoreland	South Huntingdon	PA DEP SWRO	2/11/2013	2/11/2014	156 Mel Road, West Newton, PA 15089
Rejiss Pad A	ESCGP 2	ESX11-051-0039	PA	Fayette	Nicholson	PA DEP SWRO	2/4/2014	2/3/2019	201 Debolt Road, Masontown, PA 15461
Rejiss Unit 1H	Drill Permit	37-051-24515	PA	Fayette	Nicholson	PA DEP SWRO	9/12/2012	9/12/2013	201 Debolt Road, Masontown, PA 15461
Rejiss Unit 2H	Drill Permit	37-051-24516	PA	Fayette	Nicholson	PA DEP SWRO	6/3/2014	6/3/2015	201 Debolt Road, Masontown, PA 15461
Rejiss Unit 2H	Drill Permit	37-051-24516	PA	Fayette	Nicholson	PA DEP SWRO	9/12/2012	9/12/2013	201 Debolt Road, Masontown, PA 15461
Rejiss Unit 3H	Drill Permit	37-051-24517	PA	Fayette	Nicholson	PA DEP SWRO	9/12/2012	9/12/2013	201 Debolt Road, Masontown, PA 15461
RES Water Recycling Plant-MAWC Tap	Water Management Plan	Source 68	PA	Westmoreland	Hempfield	PA DEP SWRO	05/15/2015	05/06/2020	
Rice Pad A	ESCGP 1	ESX10-059-0009	PA	Greene	Gilmore	PA DEP SWRO	2/26/2010	2/25/2015	1201 Jollytown Road, New Freeport, PA 15357
Rice Unit 1H	Drill Permit	37-059-25293	PA	Greene	Gilmore	PA DEP SWRO	8/31/2009	8/31/2010	1201 Jollytown Road, New Freeport, PA 15357
Rice Unit 2H	Drill Permit	37-059-25374	PA	Greene	Gilmore	PA DEP SWRO	11/19/2009	11/19/2010	1201 Jollytown Road, New Freeport, PA 15357
Rine 11H	Drill Permit	47-5101858	WV	Marshall	Washington	WVDEP	9/15/2015	9/15/2017	679 Campbell Hill Road, Moundsville, WV 26041
Rine 5H	Drill Permit	47-5101854	WV	Marshall	Washington	WVDEP	9/15/2015	9/15/2017	679 Campbell Hill Road, Moundsville, WV 26041
Rine 7H	Drill Permit	47-5101856	WV	Marshall	Washington	WVDEP	9/15/2015	9/15/2017	679 Campbell Hill Road, Moundsville, WV 26041
Rine 9H	Drill Permit	47-5101857	WV	Marshall	Washington	WVDEP	9/15/2015	9/15/2017	679 Campbell Hill Road, Moundsville, WV 26041
Ritter Pad A	ESCGP 1	ESX12-051-0010	PA	Fayette	Redstone	PA DEP SWRO	1/15/2013	1/14/2018	115 Tree Farm Road, New Salem, PA 15468
Ritter Pad A	GP5 – Utility Crossing/Temp Access Road	GP05260714-003	PA	Fayette	Redstone	PA DEP SWRO	08/18/14		115 Tree Farm Road, New Salem, PA 15468
Ritter Pad A Salesline	ESCGP 2	ESX15-051-0001	PA	Fayette	Redstone	PA DEP SWRO	3/23/2015	3/22/2019	115 Tree Farm Road, New Salem, PA 15468
Ritter Pad A Waterline	ESCGP 2	ESX14-051-0010	PA	Fayette	Redstone	PA DEP SWRO	9/9/2014	9/8/2019	115 Tree Farm Road, New Salem, PA 15468
Ritter Unit 1H	Drill Permit	37-051-24567	PA	Fayette	Redstone	PA DEP SWRO	2/22/2013	2/22/2014	115 Tree Farm Road, New Salem, PA 15468
Ritter Unit 2H	Drill Permit	37-051-24568	PA	Fayette	Redstone	PA DEP SWRO	2/22/2013	2/22/2014	115 Tree Farm Road, New Salem, PA 15468
Ritter Unit 3H	Drill Permit	37-051-24588-00	PA	Fayette	Redstone	PA DEP SWRO	10/28/2014	10/28/2015	115 Tree Farm Road, New Salem, PA 15468
Ritter Unit 4H	Drill Permit	37-051-24569	PA	Fayette	Redstone	PA DEP SWRO	3/24/2014	3/24/2015	115 Tree Farm Road, New Salem, PA 15468
Ritter Unit 5H	Drill Permit	37-051-24570	PA	Fayette	Redstone	PA DEP SWRO	2/22/2013	2/22/2014	115 Tree Farm Road, New Salem, PA 15468
Ritter Unit 6H	Drill Permit	37-051-24589-00	PA	Fayette	Redstone	PA DEP SWRO	12/17/2013	12/17/2014	115 Tree Farm Road, New Salem, PA 15468
Ritter Unit 7H	Drill Permit	37-051-24590	PA	Fayette	Redstone	PA DEP SWRO	9/11/2014	9/11/2015	115 Tree Farm Road, New Salem, PA 15468

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Ritter Unit 8H	Drill Permit	37-051-24591-00	PA	Fayette	Redstone	PA DEP SWRO	9/11/2014	9/11/2015	115 Tree Farm Road, New Salem, PA 15468
Rosa 10H	Drill Permit	37-051-24523	PA	Fayette	Franklin	PA DEP SWRO	10/10/2012	10/10/2013	626 N Crabapple Road, Perryopolis, PA 15473
Rosa 11H	Drill Permit	37-051-24524	PA	Fayette	Franklin	PA DEP SWRO	8/22/2014	8/22/2015	626 N Crabapple Road, Perryopolis, PA 15473
Rosa 6H	Drill Permit	37-051-24519	PA	Fayette	Franklin	PA DEP SWRO	10/10/2012	10/10/2013	626 N Crabapple Road, Perryopolis, PA 15473
Rosa 7H	Drill Permit	37-051-24520	PA	Fayette	Franklin	PA DEP SWRO	8/22/2014	8/22/2015	626 N Crabapple Road, Perryopolis, PA 15473
Rosa 8H	Drill Permit	37-051-24521	PA	Fayette	Franklin	PA DEP SWRO	10/10/2012	10/10/2013	626 N Crabapple Road, Perryopolis, PA 15473
Rosa 9H	Drill Permit	37-051-24522	PA	Fayette	Franklin	PA DEP SWRO	10/10/2012	10/10/2013	626 N Crabapple Road, Perryopolis, PA 15473
Rosa Pad A	ESCGP 1	ESX11-051-0038	PA	Fayette	Franklin	PA DEP SWRO	8/9/2016	8/8/2021	626 N Crabapple Road, Perryopolis, PA 15473
Rosul 1H	Drill Permit	37-051-24479	PA	Fayette	Jefferson	PA DEP SWRO	3/6/2013	3/6/2014	330 Redstone Church Road, Perryopolis, PA 15473
Rosul 2H	Drill Permit	37-051-24480	PA	Fayette	Jefferson	PA DEP SWRO	3/6/2013	3/6/2014	330 Redstone Church Road, Perryopolis, PA 15473
Rosul 3H	Drill Permit	37-051-24481	PA	Fayette	Jefferson	PA DEP SWRO	3/6/2013	3/6/2014	330 Redstone Church Road, Perryopolis, PA 15473
Rosul 4H	Drill Permit	37-051-24482	PA	Fayette	Jefferson	PA DEP SWRO	3/6/2013	3/6/2014	330 Redstone Church Road, Perryopolis, PA 15473
Rosul 5H	Drill Permit	37-051-24483	PA	Fayette	Washington	PA DEP SWRO	1/23/2014	1/23/2015	330 Redstone Church Road, Perryopolis, PA 15473
Rosul 6H	Drill Permit	37-051-24484	PA	Fayette	Washington	PA DEP SWRO	2/27/2013	2/27/2014	330 Redstone Church Road, Perryopolis, PA 15473
Rosul Pad A	ESCGP 2	ESX11-051-0027	PA	Fayette	Jefferson	PA DEP SWRO	5/8/2014	5/7/2019	330 Redstone Church Road, Perryopolis, PA 15473
Roth A M06H	Drill Permit	47-051-02254	WV	Marshall	Union	WVDEP	09/11/2019	09/11/2020	145 McHenry Lane, Wheeling, WV 26033
Roth Pad A	WV/NPDES/Multi Sector	WVR311454	WV	Marshall	Union	WVDEP	01/09/2020		145 McHenry Lane, Wheeling, WV 26033
Rowan Pad A	ESCGP 1	ESX11-059-0053	PA	Greene	Jefferson/Cumberland	PA DEP SWRO	10/20/2011	10/18/2016	214 Valley View Road, Jefferson, PA 15344
Ruppert Pad A	ESCGP 2	ESX17-051-0002	PA	Fayette	Luzerne	PA DEP SWRO	4/27/2017	4/26/2022	208 Rush Run Road, East Millsboro, PA 15433
Sabatine Smouse Pad A	ESCGP 2	ESX11-129-0032	PA	Westmoreland	South Huntingdon	PA DEP SWRO	8/24/2016	8/23/2021	289 Bells Mills Road, West Newton, PA 15089
Sabatine Smouse Unit 1H	Drill Permit	37-129-28804	PA	Westmoreland	South Huntingdon	PA DEP SWRO	12/7/2012	12/7/2013	289 Bells Mills Road, West Newton, PA 15089
Sabatine Smouse Unit 2H	Drill Permit	37-129-28805	PA	Westmoreland	South Huntingdon	PA DEP SWRO	12/7/2012	12/7/2013	289 Bells Mills Road, West Newton, PA 15089
Sabatine Smouse Unit 3H	Drill Permit	37-129-28806	PA	Westmoreland	South Huntingdon	PA DEP SWRO	9/13/2012	9/13/2013	289 Bells Mills Road, West Newton, PA 15089
Sanfilippo	ESCGP 2	ESX12-051-0009	PA	Fayette	Redstone	PA DEP SWRO	9/10/2014	9/9/2019	6580 National Pike, New Salem, PA 15468
Sanfilippo	GP7 – Access Road Stream Crossing	GP07320712-002/2012-1154	PA	Fayette	Redstone	PA DEP SWRO	12/4/2012		6580 National Pike, New Salem, PA 15468
Sanfilippo	GP8 – Utility Crossing/Temp Access Road	GP08260715001	PA	Fayette	Redstone	PA DEP SWRO	3/12/2015	3/11/2016	6580 National Pike, New Salem, PA 15468
Sanfilippo	GP5 – Utility Crossing/Temp Access Road	GP05260715001	PA	Fayette	Redstone	PA DEP SWRO	03/12/15		6580 National Pike, New Salem, PA 15468
Sanfilippo	GP5 – Utility Crossing/Temp Access Road	GP05260715005	PA	Fayette	Redstone	PA DEP SWRO	05/11/15		6580 National Pike, New Salem, PA 15468
Sanfilippo 1H	Drill Permit	37-051-24571	PA	Fayette	Redstone	PA DEP SWRO	2/11/2015	2/11/2016	6580 National Pike, New Salem, PA 15468
Sanfilippo 2H	Drill Permit	37-051-24572	PA	Fayette	Redstone	PA DEP SWRO	2/11/2015	2/11/2016	6580 National Pike, New Salem, PA 15468
Sanfilippo 3H	Drill Permit	37-051-24573	PA	Fayette	Redstone	PA DEP SWRO	2/12/2015	2/12/2016	6580 National Pike, New Salem, PA 15468
Sanfilippo 4H	Drill Permit	37-051-24574	PA	Fayette	Redstone	PA DEP SWRO	2/12/2015	2/12/2016	6580 National Pike, New Salem, PA 15468
Sanfilippo 5H	Drill Permit	37-051-24556	PA	Fayette	Redstone	PA DEP SWRO	2/12/2015	2/12/2016	6580 National Pike, New Salem, PA 15468
Sanfilippo 6H	Drill Permit	37-051-24575	PA	Fayette	Redstone	PA DEP SWRO	2/12/2015	2/12/2016	6580 National Pike, New Salem, PA 15468
Sanfilippo 7H	Drill Permit	37-051-24619	PA	Fayette	Redstone	PA DEP SWRO	1/15/2015	1/15/2016	6580 National Pike, New Salem, PA 15468
Sanfilippo 8H	Drill Permit	37-051-24620	PA	Fayette	Redstone	PA DEP SWRO	1/15/2015	1/15/2016	6580 National Pike, New Salem, PA 15468
Sanfilippo Pad A	GP5 – Utility Crossing/Temp Access Road	GP05260714001	PA	Fayette	Redstone	PA DEP SWRO	06/13/14		6580 National Pike, New Salem, PA 15468
Sanfilippo Pad A Salesline	ESCGP 2	ESX15-051-0003	PA	Fayette	Redstone	PA DEP SWRO	3/27/2015	3/26/2020	6580 National Pike, New Salem, PA 15468
Sargent Pad A	ESCGP 1	ESX12-125-0093	PA	Washington	West Bethlehem	PA DEP SWRO	8/27/2012	8/26/2017	191 Kefover Road, Marianna, PA 15345
Sargent Pad A	ESCGP 1	ESX12-125-0093	PA	Washington	West Bethlehem	PA DEP SWRO	8/25/2017	8/25/2018	191 Kefover Road, Marianna, PA 15345
Sargent Unit 11H	Drill Permit	37-125-26933	PA	Washington	West Bethlehem	PA DEP SWRO	1/16/2013	1/16/2014	191 Kefover Road, Marianna, PA 15345

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Sargent Unit 12H	Drill Permit	37-125-27052	PA	Washington	West Bethlehem	PA DEP SWRO	7/25/2013	7/25/2014	191 Kefover Road, Marianna, PA 15345
Sargent Unit 13H	Drill Permit	37-125-27053	PA	Washington	West Bethlehem	PA DEP SWRO	7/25/2013	7/25/2014	191 Kefover Road, Marianna, PA 15345
Sargent Unit 14H	Drill Permit	37-125-26934	PA	Washington	West Bethlehem	PA DEP SWRO	1/16/2013	1/16/2014	191 Kefover Road, Marianna, PA 15345
Sargent Unit 15H	Drill Permit	37-125-26935	PA	Washington	West Bethlehem	PA DEP SWRO	1/16/2013	1/16/2014	191 Kefover Road, Marianna, PA 15345
Sargent Unit 7H	Drill Permit	37-125-26929	PA	Washington	West Bethlehem	PA DEP SWRO	1/16/2013	1/16/2014	191 Kefover Road, Marianna, PA 15345
Sargent Unit 8H	Drill Permit	37-125-26930	PA	Washington	West Bethlehem	PA DEP SWRO	1/16/2013	1/16/2014	191 Kefover Road, Marianna, PA 15345
Sargent Unit 9H	Drill Permit	37-125-26931	PA	Washington	West Bethlehem	PA DEP SWRO	1/16/2013	1/16/2014	191 Kefover Road, Marianna, PA 15345
Sargent Unit 10H	Drill Permit	37-125-26932	PA	Washington	West Bethlehem	PA DEP SWRO	8/25/2014	8/25/2015	191 Kefover Road, Marianna, PA 15345
Schamp Pad A	ESCGP 1	ESX11-059-0035	PA	Greene	Franklin	PA DEP SWRO	6/7/2011	6/5/2016	110 Barton Hollow Road, Waynesburg, PA 15370
Schamp Unit 1H	Drill Permit	37-059-25845	PA	Greene	Franklin	PA DEP SWRO	9/16/2011	9/16/2012	110 Barton Hollow Road, Waynesburg, PA 15370
Schamp Unit 2H	Drill Permit	37-059-25846	PA	Greene	Franklin	PA DEP SWRO	9/16/2011	9/16/2012	110 Barton Hollow Road, Waynesburg, PA 15370
Schamp Unit 3H	Drill Permit	37-059-25847	PA	Greene	Franklin	PA DEP SWRO	9/16/2011	9/16/2012	110 Barton Hollow Road, Waynesburg, PA 15370
Sheperd Pad A	ESCGP 2	ESX11-051-0018	PA	Fayette	Redstone	PA DEP SWRO	10/25/2013	10/24/2018	410 Rows Run Road, Smock, PA 15480
Sheperd Unit 4H	Drill Permit	37-051-24509	PA	Fayette	Redstone	PA DEP SWRO	4/12/2012	4/12/2013	410 Rows Run Road, Smock, PA 15480
Sheperd Unit 5H	Drill Permit	37-051-24510	PA	Fayette	Redstone	PA DEP SWRO	4/12/2012	4/12/2013	410 Rows Run Road, Smock, PA 15480
Sheperd Unit 6H	Drill Permit	37-051-24511	PA	Fayette	Redstone	PA DEP SWRO	4/12/2012	4/12/2013	410 Rows Run Road, Smock, PA 15480
Sheperd Unit 7H	Drill Permit	37-051-24512	PA	Fayette	Redstone	PA DEP SWRO	4/12/2012	4/12/2013	410 Rows Run Road, Smock, PA 15480
SHOAF 7	OG 0071a	1174721	PA	Westmoreland	Sewickley	PA DEP SWRO	3/23/2017	N/A	698 Apple Mills Road, West Newton, PA 15089
Shreffler Pad A	ESCGP 1	ESX11-121-0007	PA	Venango	Richland	PA DEP NWRO	11/2/2011	10/31/2016	No Address - Not Built
Sickle Pad A	ESCGP 2	ESX13-051-0007	PA	Fayette	Washington	PA DEP NCRO	12/23/2013	12/22/2018	9 Fayette City Blvd, Perryopolis, PA 15473
Sickle Pad A Salesline	ESCGP 2	ESX15-051-0004	PA	Fayette	Washington	PA DEP SWRO	4/30/2015	4/29/2020	9 Fayette City Blvd, Perryopolis, PA 15473
Sickle Unit 1H	Drill Permit	37-051-24607	PA	Fayette	Washington	PA DEP SWRO	2/14/2014	2/14/2015	9 Fayette City Blvd, Perryopolis, PA 15473
Sickle Unit 2H	Drill Permit	37-051-24608	PA	Fayette	Washington	PA DEP SWRO	10/14/2014	10/14/2015	9 Fayette City Blvd, Perryopolis, PA 15473
Sickle Unit 3H	Drill Permit	37-051-24609	PA	Fayette	Washington	PA DEP SWRO	10/14/2014	10/14/2015	9 Fayette City Blvd, Perryopolis, PA 15473
Sickle Unit 4H	Drill Permit	37-051-24610	PA	Fayette	Washington	PA DEP SWRO	10/14/2014	10/14/2015	9 Fayette City Blvd, Perryopolis, PA 15473
Sickle Unit 5H	Drill Permit	37-051-24611-00-00	PA	Fayette	Washington	PA DEP SWRO	2/26/2014	2/26/2015	9 Fayette City Blvd, Perryopolis, PA 15473
Sickle Unit 6H	Drill Permit	37-051-24612-00-00	PA	Fayette	Washington	PA DEP SWRO	2/26/2014	2/26/2015	9 Fayette City Blvd, Perryopolis, PA 15473
Sickle Unit 7H	Drill Permit	37-051-24613-00-00	PA	Fayette	Washington	PA DEP SWRO	2/26/2014	2/26/2015	9 Fayette City Blvd, Perryopolis, PA 15473
Siegel 1	Drill Permit	37-051-24633-00-00	PA	Fayette	Luzerne	PA DEP SWRO	06/11/2019	06/11/2020	244 Heisterburg, East Millsboro, PA 15433
Siegel 2H	Drill Permit	37-051-24641-00-00	PA	Fayette	Luzerne	PA DEP SWRO	06/11/2019	06/11/2020	244 Heisterburg, East Millsboro, PA 15433
Siegel 3H	Drill Permit	37-051-24643-00-00	PA	Fayette	Luzerne	PA DEP SWRO	06/11/2019	06/11/2020	244 Heisterburg, East Millsboro, PA 15433
Siegel 4H	Drill Permit	37-051-24642-00-00	PA	Fayette	Luzerne	PA DEP SWRO	09/17/2019	09/17/2020	244 Heisterburg, East Millsboro, PA 15433
Siegel 5H	Drill Permit	37-051-24644-00-00	PA	Fayette	Luzerne	PA DEP SWRO	09/17/2019	09/17/2020	244 Heisterburg, East Millsboro, PA 15433
Siegel 6H	Drill Permit	37-051-24645-00-00	PA	Fayette	Luzerne	PA DEP SWRO	09/17/2019	09/17/2020	244 Heisterburg, East Millsboro, PA 15433
Siegel 7H	Drill Permit	37-051-24646-00-00	PA	Fayette	Luzerne	PA DEP SWRO	09/17/2019	09/17/2020	244 Heisterburg, East Millsboro, PA 15433
Siegel 8H	Drill Permit	37-051-24647-00-00	PA	Fayette	Luzerne	PA DEP SWRO	09/17/2019	09/17/2020	244 Heisterburg, East Millsboro, PA 15433
Siegel 9H	Drill Permit	37-051-24648-00-00	PA	Fayette	Luzerne	PA DEP SWRO	09/17/2019	09/17/2020	244 Heisterburg, East Millsboro, PA 15433
Siegel Pad A	OG 0071b	1214775 Air/Fluid	PA	Fayette	Washington	PA DEP SWRO	4/6/2018		244 Heisterburg, East Millsboro, PA 15433
Siegel Pad A	ESCGP 2	ESX15-051-0005	PA	Fayette	Luzerne	PA DEP SWRO	1/19/2016	1/17/2021	244 Heisterburg, East Millsboro, PA 15433
Siegel Pad A	GP5 – Utility Crossing/Temp Access Road	GP05260715-002	PA	Fayette	Luzerne	PA DEP SWRO	03/02/15		244 Heisterburg, East Millsboro, PA 15433
Siegel Pad A	GP7 – Access Road Stream Crossing	GP07260711-001	PA	Fayette	Luzerne	PA DEP SWRO	3/2/2015		244 Heisterburg, East Millsboro, PA 15433
Siegel Pad A	GP8 – Utility Crossing/Temp Access Road	GP08260715-002	PA	Fayette	Luzerne	PA DEP SWRO	3/2/2015	3/1/2016	244 Heisterburg, East Millsboro, PA 15433
Siegel Waterline	ESCGP-2	ESX18-051-0005	PA	Fayette	Luzerne	PA DEP SWRO	10/24/18	10/23/2023	244 Heisterburg, East Millsboro, PA 15433
Siegel Waterline	ESCGP 2	ESX18-051-0005	PA	Fayette	Luzerne	PA DEP SWRO	10/24/2018	10/23/2023	244 Heisterburg, East Millsboro, PA 15433
Sinay 10H	Drill Permit	37-129-29044	PA	Westmoreland	Sewickley	PA DEP SWRO	05/21/2019	05/20/2020	1346 Herminie West Newton Road, Herminie, PA 15637

Project Name	Permit Type	Permit Number	State	County	Township	Regulatory Agency	Permit Issued Date	Permit Expiration Date	911 Address
Sinay 1H	Drill Permit	37-129-29000	PA	Westmoreland	Sewickley	PA DEP SWRO	05/21/2019	05/20/2020	1346 Herminie West Newton Road, Herminie, PA 15637
Sinay 2H	Drill Permit	37-129-29001	PA	Westmoreland	Sewickley	PA DEP SWRO	05/21/2019	05/20/2020	1346 Herminie West Newton Road, Herminie, PA 15637
Sinay 3H	Drill Permit	37-129-29002	PA	Westmoreland	Sewickley	PA DEP SWRO	05/21/2019	05/20/2020	1346 Herminie West Newton Road, Herminie, PA 15637
Sinay 4H	Drill Permit	37-129-29008	PA	Westmoreland	Sewickley	PA DEP SWRO	05/21/2019	05/20/2020	1346 Herminie West Newton Road, Herminie, PA 15637
Sinay 5H	Drill Permit	37-129-29005	PA	Westmoreland	Sewickley	PA DEP SWRO	05/21/2019	05/20/2020	1346 Herminie West Newton Road, Herminie, PA 15637
Sinay 6H	Drill Permit	37-129-29006	PA	Westmoreland	Sewickley	PA DEP SWRO	05/21/2019	05/20/2020	1346 Herminie West Newton Road, Herminie, PA 15637
Sinay 7H	Drill Permit	37-129-29007	PA	Westmoreland	Sewickley	PA DEP SWRO	05/21/2019	05/20/2020	1346 Herminie West Newton Road, Herminie, PA 15637
Sinay 8H	Drill Permit	37-129-29003	PA	Westmoreland	Sewickley	PA DEP SWRO	05/21/2019	05/20/2020	1346 Herminie West Newton Road, Herminie, PA 15637
Sinay 9H	Drill Permit	37-129-29004	PA	Westmoreland	Sewickley	PA DEP SWRO	05/21/2019	05/20/2020	1346 Herminie West Newton Road, Herminie, PA 15637
Sinay Pad A	ESCGP 2	ESX17-129-0009	PA	Westmoreland	Sewickley	PA DEP SWRO	9/11/2017	9/10/2022	1346 Herminie West Newton Road, Herminie, PA 15637
SKOVRAN 24	OG 0071b	1174721	PA	Fayette	Redstone	PA DEP SWRO	4/6/2017	N/A	245 Seatontown Road, New Salem, PA 15468
Skovran 32H	Drill Permit	37-051-24316	PA	Fayette	Redstone	PA DEP SWRO	2/2/2010	2/2/2011	245 Seatontown Road, New Salem, PA 15468
SKOVRAN 32H	OG 0071b	1169792	PA	Fayette	Redstone	PA DEP SWRO	2/28/2017	N/A	245 Seatontown Road, New Salem, PA 15468
Skovran 33H	Drill Permit	37-051-24317	PA	Fayette	Redstone	PA DEP SWRO	2/2/2010	2/2/2011	245 Seatontown Road, New Salem, PA 15468
SKOVRAN 33H	OG 0071b	1169792	PA	Fayette	Redstone	PA DEP SWRO	2/28/2017	N/A	245 Seatontown Road, New Salem, PA 15468
Skovran 37H	Drill Permit	37-051-24424	PA	Fayette	Redstone	PA DEP SWRO	2/14/2011	2/14/2012	178 Thompson 01 Road, Adah, PA 15410
Skovran 37H-40H	ESCGP 2	ESX10-051-0051	PA	Fayette	Redstone	PA DEP SWRO	10/16/2014	10/15/2019	178 Thompson 01 Road, Adah, PA 15410
Skovran 38H	Drill Permit	37-051-24425	PA	Fayette	Redstone	PA DEP SWRO	2/14/2011	2/14/2012	178 Thompson 01 Road, Adah, PA 15410
Skovran 39H	Drill Permit	37-051-24426	PA	Fayette	Redstone	PA DEP SWRO	2/25/2011	2/25/2012	178 Thompson 01 Road, Adah, PA 15410
Skovran 40H	Drill Permit	37-051-24427	PA	Fayette	Redstone	PA DEP SWRO	2/24/2011	2/24/2012	178 Thompson 01 Road, Adah, PA 15410
Skovran Pad A	ESCGP 1	ESX10-051-0001	PA	Fayette	Redstone	PA DEP SWRO	2/3/2010	2/2/2015	178 Thompson 01 Road, Adah, PA 15410
Sleith Pad A	ESCGP 2	ESX11-129-0014	PA	Westmoreland	South Huntingdon	PA DEP SWRO	6/3/2014	6/2/2019	59 Koser Road, West Newton, PA 15089
Sleith Unit 6H	Drill Permit	37-129-28656	PA	Westmoreland	South Huntingdon	PA DEP SWRO	8/19/2011	8/18/2012	59 Koser Road, West Newton, PA 15089
Sleith Unit 7H	Drill Permit	37-129-28657	PA	Westmoreland	South Huntingdon	PA DEP SWRO	8/19/2011	8/18/2012	59 Koser Road, West Newton, PA 15089
Sleith Unit 8H	Drill Permit	37-129-28658	PA	Westmoreland	South Huntingdon	PA DEP SWRO	8/19/2011	8/18/2012	59 Koser Road, West Newton, PA 15089
Sleith Unit 9H	Drill Permit	37-129-28659	PA	Westmoreland	South Huntingdon	PA DEP SWRO	8/19/2011	8/18/2012	59 Koser Road, West Newton, PA 15089
Snapp Teslovich M01V	Drill Permit	3705124706	PA	Fayette	Luzerne	PA DEP SWRO	05/08/2019	05/08/2020	111 Craftmore Road, Brownsville, PA 15417
Snapp Teslovich M02H	Drill Permit	3705124717	PA	Fayette	Luzerne	PA DEP SWRO	09/18/2019	09/18/2020	111 Craftmore Road, Brownsville, PA 15417
Snapp Teslovich M03H	Drill Permit	3705124718	PA	Fayette	Luzerne	PA DEP SWRO	09/18/2019	09/18/2020	111 Craftmore Road, Brownsville, PA 15417
Snapp Teslovich M04H	Drill Permit	3705124714	PA	Fayette	Luzerne	PA DEP SWRO	09/18/2019	09/18/2020	111 Craftmore Road, Brownsville, PA 15417
Snapp Teslovich M05H	Drill Permit	3705124713	PA	Fayette	Luzerne	PA DEP SWRO	09/18/2019	09/18/2020	111 Craftmore Road, Brownsville, PA 15417
Snapp Teslovich M06H	Drill Permit	3705124711	PA	Fayette	Luzerne	PA DEP SWRO	09/18/2019	09/18/2020	111 Craftmore Road, Brownsville, PA 15417
Snapp Teslovich M07H	Drill Permit	3705124709	PA	Fayette	Luzerne	PA DEP SWRO	09/18/2019	09/18/2020	111 Craftmore Road, Brownsville, PA 15417
Snapp Teslovich m08H	Drill Permit	3705124710	PA	Fayette	Luzerne	PA DEP SWRO	09/18/2019	09/18/2020	111 Craftmore Road, Brownsville, PA 15417
Snapp Teslovich M09H	Drill Permit	3705124712	PA	Fayette	Luzerne	PA DEP SWRO	09/18/2019	09/18/2020	111 Craftmore Road, Brownsville, PA 15417
Snapp Teslovich M12H	Drill Permit	3705124715	PA	Fayette	Luzerne	PA DEP SWRO	09/18/2019	09/18/2020	111 Craftmore Road, Brownsville, PA 15417
Snapp Teslovich M12H	Drill Permit	3705124715	PA	Fayette	Luzerne	PA DEP SWRO	09/18/2019	09/18/2020	111 Craftmore Road, Brownsville, PA 15417
Snapp Teslovich M15H	Drill Permit	3705124716	PA	Fayette	Luzerne	PA DEP SWRO	09/18/2019	09/18/2020	111 Craftmore Road, Brownsville, PA 15417
Snapp Teslovich Pad A	ESCGP 3	ESG30705118-002	PA	Fayette	Luzerne	PA DEP SWRO	05/13/2019	05/11/2024	111 Craftmore Road, Brownsville, PA 15417
Southwest PA Water Authority	Water Management Plan	Source 81	PA	Fayette	German	PA DEP SWRO	07/12/2016	07/12/2021	
Spring Church Pad A	ESCGP 1	ESX12-005-0008	PA	Armstrong	South Bend	PA DEP SWRO	9/5/2017	9/5/2018	175 Beagle Club Road, Avonmore, PA 15618
Spring Church Pad A Salesline	ESCGP 2	ESX14-005-0012	PA	Armstrong	South Bend	PA DEP SWRO	3/5/2015	3/4/2020	175 Beagle Club Road, Avonmore, PA 15618
Spring Church Unit 1H	Drill Permit	37-005-31098	PA	Armstrong	South Bend	PA DEP SWRO	9/24/2013	9/24/2014	175 Beagle Club Road, Avonmore, PA 15618
Spring Church Unit 3H	Drill Permit	37-005-31179	PA	Armstrong	South Bend	PA DEP SWRO	11/4/2013	11/4/2014	175 Beagle Club Road, Avonmore, PA 15618
Starcovic 1H	Drill Permit	47-5101288	WV	Marshall	Cameron	WVDEP	9/17/2015	9/17/2017	508 Starcovic Drive, Cameron, WV 26033
Starcovic 1H	Drill Permit	47-5101391	WV	Marshall	Cameron	WVDEP	9/17/2015	9/17/2017	508 Starcovic Drive, Cameron, WV 26033
STARCOVIC 1H	Well Plugging	4705101288	WV	Marshall	Cameron	WVDEP	10/11/2018		508 Starcovic Drive, Cameron, WV 26033
STARCOVIC 2H	Well Plugging	4705101391	WV	Marshall	Cameron	WVDEP	10/10/2018		508 Starcovic Drive, Cameron, WV 26033
Steiner M01V	Drill Permit	37-129-29079	PA	Westmoreland	South Huntingdon	PA DEP SWRO	05/07/2019	05/07/2020	836 Barren Run Road, Smithton, PA 15479
Steiner Pad A	ESCGP 3	ESG30712919-001	PA	Westmoreland	South Huntingdon	PA DEP SWRO	09/03/2019	09/01/2024	836 Barren Run Road, Smithton, PA 15479

Project Name	Permit Type	Permit Number	State	County	Township	Regulatory Agen	Permit Issued D	Permit Expiration Date	911 Address
Stewart 1H	Drill Permit	37-051-24621-00-01	PA	Fayette	Luzerne	PA DEP SWRO	1/26/2018	1/26/2019	150 Arensburg Road, East Millsboro, PA 15433
Stewart 2H	Drill Permit	37-051-24628-00-00	PA	Fayette	Luzerne	PA DEP SWRO	1/26/2018	1/26/2019	150 Arensburg Road, East Millsboro, PA 15433
Stewart 3H	Drill Permit	37-051-24629-00-00	PA	Fayette	Luzerne	PA DEP SWRO	1/26/2018	1/26/2019	150 Arensburg Road, East Millsboro, PA 15433
Stewart 4H	Drill Permit	37-051-24630-00-00	PA	Fayette	Luzerne	PA DEP SWRO	1/26/2018	1/26/2019	150 Arensburg Road, East Millsboro, PA 15433
Stewart 5H	Drill Permit	37-051-24631-00-00	PA	Fayette	Luzerne	PA DEP SWRO	1/26/2018	1/26/2019	150 Arensburg Road, East Millsboro, PA 15433
Stewart 6H	Drill Permit	37-051-24632-00-00	PA	Fayette	Luzerne	PA DEP SWRO	1/26/2018	1/26/2019	150 Arensburg Road, East Millsboro, PA 15433
Stewart 7H	Drill Permit	37-051-24639	PA	Fayette	Luzerne	PA DEP SWRO	1/26/2018	1/26/2019	150 Arensburg Road, East Millsboro, PA 15433
Stewart Pad A	ESCGP 2	ESX14-051-0016	PA	Fayette	Luzerne	PA DEP SWRO	6/23/2015	6/21/2020	150 Arensburg Road, East Millsboro, PA 15433
Stewart Pad A	OG 0071b	1214775	PA	Fayette	Luzerne	PA DEP SWRO	2/7/2018	N/A	150 Arensburg Road, East Millsboro, PA 15433
Taylor 1H	Drill Permit	47-051-01322	WV	Marshall	Clay	WVDEP	10/14/2009	10/14/2011	803 Spoon Lane, Moundsville, WV 26041
Taylor B 2H	Drill Permit	47-5101793	WV	Marshall	Clay	WVDEP	4/7/2015	4/7/2017	803 Spoon Lane, Moundsville, WV 26041
TAYLOR B 3H	Drill Permit	47-5101794	WV	Marshall	Clay	WVDEP	4/24/2017	4/24/2019	803 Spoon Lane, Moundsville, WV 26041
TAYLOR B 4H	Drill Permit	47-5101795	WV	Marshall	Clay	WVDEP	4/24/2017	4/24/2019	803 Spoon Lane, Moundsville, WV 26041
Taylor B 5H	Drill Permit	47-5101823	WV	Marshall	Clay	WVDEP	4/7/2015	4/7/2017	803 Spoon Lane, Moundsville, WV 26041
TAYLOR B 6H	Drill Permit	47-5101796	WV	Marshall	Clay	WVDEP	4/24/2017	4/24/2019	803 Spoon Lane, Moundsville, WV 26041
TAYLOR B 7H	Drill Permit	47-5101797	WV	Marshall	Clay	WVDEP	4/24/2017	4/24/2019	803 Spoon Lane, Moundsville, WV 26041
TAYLOR B 8H	Drill Permit	47-5101798	WV	Marshall	Clay	WVDEP	4/24/2017	4/24/2019	803 Spoon Lane, Moundsville, WV 26041
TAYLOR B 9H	Drill Permit	47-5101799	WV	Marshall	Clay	WVDEP	4/24/2017	4/24/2019	803 Spoon Lane, Moundsville, WV 26041
TAYLOR C 1H	Drill Permit	4705101800	WV	Marshall	Clay	WVDEP	1/19/2018	1/19/2020	488 Spoon Lane, Moundsville, WV 26041
Taylor C 2HA	Drill Permit	47-5101801	WV	Marshall	Clay	WVDEP	3/31/2015	3/31/2017	488 Spoon Lane, Moundsville, WV 26041
TAYLOR C 2HA	Drill Permit	4705101874	WV	Marshall	Clay	WVDEP	1/19/2018	1/19/2020	488 Spoon Lane, Moundsville, WV 26041
TAYLOR C 3H	Drill Permit	4705101802	WV	Marshall	Clay	WVDEP	1/19/2018	1/19/2020	488 Spoon Lane, Moundsville, WV 26041
Taylor C 4H	Drill Permit	47-5101803	WV	Marshall	Clay	WVDEP	3/31/2015	3/31/2017	488 Spoon Lane, Moundsville, WV 26041
TAYLOR C 5H	Drill Permit	4705101804	WV	Marshall	Clay	WVDEP	1/19/2018	1/19/2020	488 Spoon Lane, Moundsville, WV 26041
Taylor C 6H	Drill Permit	47-5101824	WV	Marshall	Clay	WVDEP	3/31/2015	3/31/2017	488 Spoon Lane, Moundsville, WV 26041
TAYLOR C 7H	Drill Permit	4705101805	WV	Marshall	Clay	WVDEP	1/19/2018	1/19/2020	488 Spoon Lane, Moundsville, WV 26041
Taylor C 8H	Drill Permit	47-5101825	WV	Marshall	Clay	WVDEP	3/31/2015	3/31/2017	488 Spoon Lane, Moundsville, WV 26041
TAYLOR C 9H	Drill Permit	4705101826	WV	Marshall	Clay	WVDEP	1/19/2018	1/19/2020	488 Spoon Lane, Moundsville, WV 26041
Tenmile Creek at Pryor	GP4 - Intake and Outfall Struct	GP04630714004	PA			PA DEP SWRO	01/05/2015		
Theakston Pad A	ESCGP 1	ESX11-125-0069	PA	Washington	West Bethlehem	PA DEP SWRO	10/21/2011	10/20/2016	No Address - Not Built
Thomas Pad A	ESCGP 2	ESG13-111-0001	PA	Somerset	Conemaugh	PA DEP SWRO	10/28/2013	10/27/2018	451 Keafer Hill Road, Johnstown, PA 15905
Thomas Unit 1H	Drill Permit	37-111-20316-00,01	PA	Somerset	Conemaugh	PA DEP SWRO	7/29/2013	7/29/2014	451 Keafer Hill Road, Johnstown, PA 15905
Vrona 1H	Drill Permit	37-059-25753	PA	Greene	Cumberland	PA DEP SWRO	6/17/2011	6/16/2012	190 Old Ferry Road, Crucible, PA 15325
Vrona 2HA	Drill Permit	37-059-25754	PA	Greene	Cumberland	PA DEP SWRO	6/17/2011	6/16/2012	190 Old Ferry Road, Crucible, PA 15325
Vrona Pad A	ESCGP 1	ESX11-059-0007	PA	Greene	Cumberland	PA DEP SWRO	2/20/2013	2/19/2018	190 Old Ferry Road, Crucible, PA 15325
Walts Mills Pad A	ESCGP 1	ESX12-129-0013	PA	Westmoreland	Hempfield	PA DEP SWRO	6/27/2012	6/26/2017	No Address - Not Built
Wilson 22H	Drill Permit	37-129-28515	PA	Westmoreland	South Huntingdon	PA DEP SWRO	4/28/2010	4/28/2011	183 Apple Mills Road, West Newton, PA 15089
Wilson 23H	Drill Permit	37-129-28516	PA	Westmoreland	South Huntingdon	PA DEP SWRO	4/28/2010	4/28/2011	183 Apple Mills Road, West Newton, PA 15089
Wilson Pad A	ESCGP 1	ESX10-129-0006	PA	Westmoreland	South Huntingdon	PA DEP SWRO	2/26/2010	2/25/2015	183 Apple Mills Road, West Newton, PA 15089
Woods 12H	Drill Permit	47-51-01849	WV	Marshall	Clay	WVDEP	8/24/2015	8/25/2017	2600 Fork Ridge Road, Moundsville, WV 26041
Woods 14H	Drill Permit	47-51-01879	WV	Marshall	Clay	WVDEP	3/28/2016	3/28/2018	2600 Fork Ridge Road, Moundsville, WV 26041
Woods 16H	Drill Permit	47-51-01880	WV	Marshall	Clay	WVDEP	3/28/2016	3/28/2018	2600 Fork Ridge Road, Moundsville, WV 26041
Woods 2H	Drill Permit	47-51-01878	WV	Marshall	Clay	WVDEP	3/28/2016	3/28/2018	2600 Fork Ridge Road, Moundsville, WV 26041
Woods 4H	Drill Permit	4705102299	WV	Marshall	Clay	WVDEP	02/13/2020	02/13/2022	2600 Fork Ridge Road, Moundsville, WV 26041
Woods 6H	Drill Permit	47-51-01851	WV	Marshall	Clay	WVDEP	8/24/2015	8/25/2017	2600 Fork Ridge Road, Moundsville, WV 26041
Woods 8H	Drill Permit	47-51-01850	WV	Marshall	Clay	WVDEP	8/24/2015	8/25/2017	2600 Fork Ridge Road, Moundsville, WV 26041
Yanosky 5H	Drill Permit	37-125-23962	PA	Washington	Deemston	PA DEP SWRO	4/28/2010	4/28/2011	480 Buckingham Road, Fredericktown, PA 15333
Yanosky Pad A	ESCGP 1	ESX09-125-0038	PA	Washington	Deemston	PA DEP SWRO	9/21/2009	9/20/2014	480 Buckingham Road, Fredericktown, PA 15333
Yareck 1HA	Drill Permit	37-059-25459	PA	Greene	Jefferson	PA DEP SWRO	5/25/2010	5/25/2011	320 Kovalchecks Road, Carmichaels, PA 15320
Yareck 3H	Drill Permit	37-059-25458	PA	Greene	Jefferson	PA DEP SWRO	4/14/2010	4/14/2011	320 Kovalchecks Road, Carmichaels, PA 15320

Project Name	Permit Type	Permit Number	State	County	Township	Regulatory Agen	Permit Issued D	Permit Expiration Date	911 Address
Yareck 4H	Drill Permit	37-059-25457	PA	Greene	Jefferson	PA DEP SWRO	5/27/2010	5/27/2011	320 Kovalchecks Road, Carmichaels, PA 15320
Yareck Pad A	ESCGP 1	ESX10-059-0030	PA	Greene	Jefferson	PA DEP SWRO	5/19/2010	5/18/2015	320 Kovalchecks Road, Carmichaels, PA 15320
Yoder 1	Drill Permit	37-051-24635-00-00	PA	Fayette	Luzerne	PA DEP SWRO	10/16/2015	10/16/2016	300 Krepps Lane, East Millsboro, PA 15433
Yoder 10H	Drill Permit	37-051-24661	PA	Fayette	Luzerne	PA DEP SWRO	3/6/2018	3/6/2019	300 Krepps Lane, East Millsboro, PA 15433
Yoder 11H	Drill Permit	37-051-24662	PA	Fayette	Luzerne	PA DEP SWRO	3/6/2018	3/6/2019	300 Krepps Lane, East Millsboro, PA 15433
Yoder 12H	Drill Permit	37-051-24663	PA	Fayette	Luzerne	PA DEP SWRO	3/6/2018	3/6/2019	300 Krepps Lane, East Millsboro, PA 15433
Yoder 1H	Drill Permit	37-051-24652	PA	Fayette	Luzerne	PA DEP SWRO	3/6/2018	3/6/2019	300 Krepps Lane, East Millsboro, PA 15433
Yoder 2H	Drill Permit	37-051-24653	PA	Fayette	Luzerne	PA DEP SWRO	3/6/2018	3/6/2019	300 Krepps Lane, East Millsboro, PA 15433
Yoder 3H	Drill Permit	37-051-24654	PA	Fayette	Luzerne	PA DEP SWRO	3/12/2018	3/12/2019	300 Krepps Lane, East Millsboro, PA 15433
Yoder 4H	Drill Permit	37-051-24655	PA	Fayette	Luzerne	PA DEP SWRO	3/6/2018	3/6/2019	300 Krepps Lane, East Millsboro, PA 15433
Yoder 5H	Drill Permit	37-051-24656	PA	Fayette	Luzerne	PA DEP SWRO	3/6/2018	3/6/2019	300 Krepps Lane, East Millsboro, PA 15433
Yoder 6H	Drill Permit	37-051-24657	PA	Fayette	Luzerne	PA DEP SWRO	3/6/2018	3/6/2019	300 Krepps Lane, East Millsboro, PA 15433
Yoder 7H	Drill Permit	37-051-24658	PA	Fayette	Luzerne	PA DEP SWRO	3/6/2018	3/6/2019	300 Krepps Lane, East Millsboro, PA 15433
Yoder 8H	Drill Permit	37-051-24659	PA	Fayette	Luzerne	PA DEP SWRO	3/6/2018	3/6/2019	300 Krepps Lane, East Millsboro, PA 15433
Yoder 9H	Drill Permit	37-051-24660	PA	Fayette	Luzerne	PA DEP SWRO	3/6/2018	3/6/2019	300 Krepps Lane, East Millsboro, PA 15433
Yoder Pad A	ESCGP 2	ESX15-051-0007	PA	Fayette	Luzerne	PA DEP SWRO	6/3/2015	6/1/2020	300 Krepps Lane, East Millsboro, PA 15433
Yoder Pad A	OG-71A	1286994 AST	PA	Fayette	Luzerne	PA DEP SWRO	09/05/2019	NA	300 Krepps Lane, East Millsboro, PA 15433
Yoder Water Line	GP-05 Utility Line Stream Crossing	GP05260718-002	PA	Fayette	Luzerne	PA DEP SWRO	09/24/18		Rush Run Road, East Millsboro, PA 15433
Yoder Water Line	GP-08 Temporary Road Crossing	GP08260718-002	PA	Fayette	Luzerne	PA DEP SWRO	09/24/18		Rush Run Road, East Millsboro, PA 15433
Yoder Waterline	ESCGP-2	ESX18-051-0006	PA	Fayette	Luzerne	PA DEP SWRO	10/22/18	10/21/2023	Rush Run Road, East Millsboro, PA 15433
Yoder Waterline	GP5 – Utility Crossing/Temp A	GP05260718-002	PA	Fayette	Luzerne	PA DEP SWRO	09/24/2018		Rush Run Road, East Millsboro, PA 15433
Youghiogheny River	Water Management Plan	Source 82	PA	Westmoreland	South Huntingdon	PA DEP SWRO	03/20/2018	03/20/2023	
Youghiogheny River in South Huntingdo	GP4 - Intake and Outfall Struct	GP046507219001	PA	Westmoreland	South Huntingdon	PA DEP SWRO	10/18/2019		
Zalac 5H	Drill Permit	37-051-24622-00-00	PA	Fayette	German	PA DEP SWRO	3/19/2015	3/18/2016	118 McClellandtown Lambert Road, McClellandtown, PA 15458
Zalac 6H	Drill Permit	37-051-24623-00-00	PA	Fayette	German	PA DEP SWRO	3/19/2015	3/18/2016	118 McClellandtown Lambert Road, McClellandtown, PA 15458
Zalac 7H	Drill Permit	37-051-24624-00-00	PA	Fayette	German	PA DEP SWRO	3/19/2015	3/18/2016	118 McClellandtown Lambert Road, McClellandtown, PA 15458
Zalac 8H	Drill Permit	37-051-24625-00-00	PA	Fayette	German	PA DEP SWRO	3/19/2015	3/18/2016	118 McClellandtown Lambert Road, McClellandtown, PA 15458
Zalac 9H	Drill Permit	37-051-24626-00-00	PA	Fayette	German	PA DEP SWRO	3/19/2015	3/18/2016	118 McClellandtown Lambert Road, McClellandtown, PA 15458
Zalac 10H	Drill Permit	37-051-24617-00-00	PA	Fayette	German	PA DEP SWRO	1/20/2015	1/20/2016	118 McClellandtown Lambert Road, McClellandtown, PA 15458
Zalac 11H	Drill Permit	37-051-24627-00-00	PA	Fayette	German	PA DEP SWRO	3/19/2015	3/18/2016	118 McClellandtown Lambert Road, McClellandtown, PA 15458
Zalac Pad A	ESCGP 2	ESX14-051-0014	PA	Fayette	German	PA DEP SWRO	12/4/2014	12/3/2019	118 McClellandtown Lambert Road, McClellandtown, PA 15458
Zorosak 2H	Drill Permit	37-129-28729	PA	Westmoreland	Sewickley	PA DEP SWRO	10/18/2012	10/18/2013	213 Pierce Road, West Newton, PA 15089
Zorosak 3H	Drill Permit	37-129-28728	PA	Westmoreland	Sewickley	PA DEP SWRO	10/18/2012	10/18/2013	213 Pierce Road, West Newton, PA 15089
Zorosak Pad A	ESCGP 2	ESX11-129-0040	PA	Westmoreland	Sewickley	PA DEP SWRO	7/25/2013	7/24/2018	213 Pierce Road, West Newton, PA 15089

Confidential Business Information
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VIOLATION DATE	State	API PERMIT	FARM NAME	SITE NAME	VIOLATION TYPE* *As Determined by PADEP	ENFORCEMENT CODE & DESCRIPTION	PENALTY AMOUNT
05/03/2011	PA	**	**	**	Administrative	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$1,000
05/04/2011	PA	37-051-24411	FDS	FDS UNIT 6H	Environmental Health & Safety/Administrative	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$6,000
05/31/2011	PA	37-051-24406	KURUTZ	KURUTZ UNIT 10H	Environmental Health & Safety	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$6,000
06/28/2011	PA	37-051-24370	GRANT	GRANT UNIT 15H	Environmental Health & Safety/Administrative	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$6,000
08/16/2011	PA	37-021-21164	SMITHMYER	SMITHMYER UNIT 1H	Environmental Health & Safety	NOV - Notice of Violation	
09/13/2011	PA	37-129-28407	GREENAWALT	GREENAWALT UNIT 25H	Administrative	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$4,250
08/29/2011	PA	37-051-24426	SKOVVAN	SKOVVAN UNIT 37H	Administrative	NOV - Notice of Violation	
11/01/2011	PA	37-111-20298	BLUEBAUGH	BLUEBAUGH UNIT 1H	Environmental Health & Safety	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$7,000
12/30/2011	PA	37-129-28515	WILSON	WILSON UNIT 21H	Environmental Health & Safety	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$1,550
02/16/2012	PA	37-125-24044	ROBINHILL	ROBINHILL 15H	Environmental Health & Safety	NOV - Notice of Violation	
03/14/2012	PA	37-051-24461	FRANKHOUSER	FRANKHOUSER UNIT 3H-A	Environmental Health & Safety/Administrative	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$13,750
03/14/2012	PA	37-051-24455	HARTLEY	HARTLEY UNIT 6H	Environmental Health & Safety/Administrative	NOV - Notice of Violation	
04/06/2012	PA	37-125-24334	HAMBLETON	HAMBLETON UNIT 5H	Environmental Health & Safety	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$3,750
04/09/2012	PA	37-125-24330	HAMBLETON	HAMBLETON UNIT 5H	Environmental Health & Safety	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$3,750
06/14/2012	PA	37-129-28483	COOK	COOK UNIT 17H	Environmental Health & Safety	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$13,750
07/05/2012	PA	37-051-24411	FDS	FDS UNIT 6H	Environmental Health & Safety	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$13,750
09/11/2012	PA	37-031-25600	MILYO	MILYO UNIT 1H	Administrative	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$21,400
08/07/2012	PA	37-027-21671	SNOW SHOE	SNOW SHOE 2 8HG	Environmental Health & Safety	NOV - Notice of Violation	
09/16/2012	PA	37-033-26971	LYTLE	LYTLE UNIT 1H	Environmental Health & Safety	NOV - Notice of Violation	
08/15/2012	PA	37-125-24716 37-125-24717 37-125-24718 37-125-24719	DONAHOO	DONAHOO 8H-11H ESCGP-EXPEDITED	Environmental Health & Safety	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$18,500
10/04/2012	PA	37-129-28658	SLEITH	SLEITH UNIT 9H	Environmental Health & Safety	NOV - Notice of Violation	
10/18/2012	PA	37-125-24877 37-125-24878 37-125-24879	BRUNAZZI	BRUNAZZI 9H-11H WELL SITE ESCGP-EXPEDITED	Environmental Health & Safety	NOV - Notice of Violation	
10/24/2012	PA	37-125-24716 37-125-24717 37-125-24718 37-125-24719	DONAHOO	DONAHOO 8H-11H ESCGP-EXPEDITED	Administrative	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$18,500
11/28/2012	PA	37-129-28725	FRYE	FRYE 12H	Administrative	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$4,500
12/14/2012	PA	37-125-24461	LATKANICH	LATKANICH UNIT 2H	Environmental Health & Safety/Administrative	NOV - Notice of Violation	
02/05/2013	PA	37-013-20012	RITCHEY	RITCHEY UNIT 1H	Environmental Health & Safety	NOV - Notice of Violation	
03/26/2013	PA	37-059-26053 37-059-26054 37-059-26055	DONLEY	DONLEY 22H-24H ESCGP-EXPEDITED	Environmental Health & Safety	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$6,500
05/22/2013	PA	37-051-24489	JACKSON FARMS	JACKSON FARMS 25H	Administrative	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$2,000
06/06/2013	PA	37-125-24619	BERCOSKY	BERCOSKY UNIT 7H	Administrative	NOV - Notice of Violation	
07/23/2013	PA	37-125-24718	DONAHOO	DONAHOO UNIT 8H	Environmental Health & Safety	NOV - Notice of Violation	
08/14/2013	PA	37-129-28743	DERMOTTA	DERMOTTA UNIT 2H-A	Administrative	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$2,000
08/14/2013	PA	37-129-28725	FRYE	FRYE 12H	Administrative	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$2,000
08/14/2013	PA	37-129-28730	MATTY-MOMYER	MATTY-MOMYER UNIT 3H	Administrative	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$2,000
08/14/2013	PA	37-129-28659	SLEITH	SLEITH UNIT 9H	Administrative	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$2,000
08/28/2013	PA	37-125-24621	BERCOSKY	BERCOSKY UNIT 7H	Administrative	NOV - Notice of Violation	
09/23/2013	PA	37-051-24511	SHEPERD	SHEPERD UNIT 4H	Administrative	NOV - Notice of Violation	
10/01/2013	PA	37-129-28820	PLASSIO	PLASSIO 6H-8H ESCGP-EXPEDITED	Environmental Health & Safety/Administrative	NOV - Notice of Violation	
10/03/2013	PA	37-121-45028	BROSIUS	BROSIUS 1H & 2H ESX	Administrative	NOV - Notice of Violation	
12/09/2013	PA	37-059-25887 37-059-25888 37-059-25889	LANCO	LANCO 6H-8H ESCGP-EXPEDITED	Environmental Health & Safety	NOV - Notice of Violation	
01/09/2014	PA	37-085-24669	MCCULLOUGH	MCCULLOUGH 1H-2H ESX	Administrative	NOV - Notice of Violation	

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VIOLATION DATE	State	API PERMIT	FARM NAME	SITE NAME	VIOLATION TYPE* *As Determined by PADEP	ENFORCEMENT CODE & DESCRIPTION	PENALTY AMOUNT
02/04/2014	PA	37-051-24544 37-051-24545 37-051-24546 37-051-24547 37-051-24548	PORTER NAYLOR	PORTER NAYLOR 27H, 28H, 37H-39H ESCGP-EXPEDITED	Administrative	NOV - Notice of Violation	
01/16/2014	PA	37-125-24044	ROBINHILL	ROBINHILL 15H	Environmental Health & Safety	NOV - Notice of Violation	
03/18/2014	PA	37-059-25888	LANCO	LANCO UNIT 6H	Environmental Health & Safety	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$939,553
03/18/2014	PA	37-059-25865 37-059-25857 37-059-25866	NIED	NIED UNIT 1H-3H ESCGP-EXPEDITED	Environmental Health & Safety	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$10,800
04/08/2014	PA	37-129-28725 37-051-24489 37-129-28730 37-129-28743 37-129-28659	FRYE JACKSON FARMS MATTY MOMYET DERMOTTA SLEITH	FRYE 13H JACKSON FARMS 43H MATTY MOMYER 3H DERMOTTA 2HA SLEITH 9H	Environmental Health & Safety	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$10,000
04/24/2014	PA	37-129-28659	SLEITH	SLEITH UNIT 9H	Environmental Health & Safety	NOV - Notice of Violation	
05/14/2014	PA	37-085-24685 37-085-24686	BOWSER	BOWSER 2H-3H ESX	Environmental Health & Safety/Administrative	NOV - Notice of Violation	
05/12/2014	PA	37-051-24460 37-051-24461 37-051-24462 37-051-24463	FRANKHOUSER	FRANKHOUSER 3H-6H ESCGP- EXPEDITED	Environmental Health & Safety	NOV - Notice of Violation	
07/10/2014	PA	37-063-37374	DUMM	DUMM 3H	Environmental Health & Safety	NOV - Notice of Violation	
07/10/2014	PA	37-051-24486 37-051-24485	LEE	LEE 13H-14H ESCGP-EXPEDITED	Environmental Health & Safety	NOV - Notice of Violation	
07/30/2014	PA	37-059-25865	NIED	NIED UNIT 2H	Administrative	NOV - Notice of Violation	
09/15/2014	PA	37-085-24669	MCCULLOUGH	MCCULLOUGH 1H-2H ESX	Environmental Health & Safety	NOV - Notice of Violation	
10/17/2014	PA	37-063-36859	BUTERBAUGH	BUTERBAUGH 8H ESCGP-EXPEDITED	Administrative	NOV - Notice of Violation	
12/08/2014	PA	37-129-28730 37-129-28731	MATTY MOMYER	MATTY MOMYER 3H-4H ESCGP- EXPEDITED	Administrative	NOV - Notice of Violation	
12/09/2014	PA	37-051-24592 37-051-24593 37-051-24594 37-051-24595 37-051-24596 37-051-24597 37-051-24598 37-051-24599 37-051-24600 37-051-24601	BAILY	BAILY 8H-17H ESCGP-2 EXPEDITED	Administrative	NOV - Notice of Violation	
12/10/2014	PA	37-059-26290	BEDILION	BEDILION UNIT 1H	Administrative	NOV - Notice of Violation	
03/18/2015	PA	37-125-26929 37-125-26930 37-125-26931 37-125-26932 37-125-26933 37-125-27052 37-125-27053 37-125-26934 37-125-26935	SARGENT	SARGENT 7H-15H ESCGP-EXPEDITED	Environmental Health & Safety	NOV - Notice of Violation	
05/08/2015	PA	37-051-24526 37-051-24527 37-051-24528 37-051-24529 37-051-24530 37-051-24531	HOEHN	HOEHN 7H-12H ESCGP-EXPEDITED	Environmental Health & Safety/Administrative	NOV - Notice of Violation	
06/24/2015	PA	37-063-37374	DUMM	DUMM 3H ESCGP-EXPEDITED	Environmental Health & Safety	NOV - Notice of Violation	
11/17/2015	PA	37-059-26053 37-059-26054 37-059-26055	DONLEY	DONLEY 22H-24H ESCGP-EXPEDITED	Environmental Health & Safety	NOV - Notice of Violation	
12/20/2015	PA	37-059-25785	KIEFFER	KIEFFER UNIT 2H	Environmental Health & Safety	NOV - Notice of Violation	
01/09/2016	PA	37-059-25670	GROOMS	GROOMS UNIT 12H	Environmental Health & Safety	NOV - Notice of Violation	
02/23/2016	PA	37-059-25342	HEADLEE	HEADLEE UNIT 8H	Environmental Health & Safety	NOV - Notice of Violation	
03/11/2016	PA	37-051-24576 37-051-24577 37-051-24579 37-051-24578	BAER	BAER 6H-9H ESCGP-EXPEDITED	Environmental Health & Safety	NOV - Notice of Violation	
03/16/2016	PA	37-051-24515	REJISS	REJISS UNIT 1H	Environmental Health & Safety	NOV - Notice of Violation	
04/14/2016	PA	37-059-26347 37-059-26337 37-059-26338 37-059-26339 37-059-26341 37-059-26340 37-059-26342 37-059-26343 37-059-26344 37-059-26345	PBG-SMITH	PBG SMITH 1H-10H ESCGP-2 EXPEDITED	Environmental Health & Safety	NOV - Notice of Violation	
04/26/2016	PA	37-051-24420	MUTNANSKY	MUTNANSKY UNIT 12H	Environmental Health & Safety	NOV - Notice of Violation	
08/09/2016	PA	37-059-25785	KIEFFER	KIEFFER UNIT 2H	Environmental Health & Safety	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$15,250
07/17/2017	PA	37-129-00667	DM CURRY	DM CURRY	Environmental Health & Safety	NOV - Notice of Violation	
01/22/2018	PA	37-051-24381	HAMBORSKY	HAMBORSKY UNIT 12H	Environmental Health & Safety	NOV - Notice of Violation	
05/14/2018	PA	37-129-28961 37-129-29015 37-129-29016 37-129-29017 37-129-29018 37-129-29019 37-129-29021 37-129-29020 37-129-29022 37-129-29023	BASARA	BASARA PAD	Environmental Health & Safety	NOV - Notice of Violation	

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VIOLATION DATE	State	API PERMIT	FARM NAME	SITE NAME	VIOLATION TYPE* *As Determined by PADEP	ENFORCEMENT CODE & DESCRIPTION	PENALTY AMOUNT
08/01/2018	PA	37-051-24640	KOVACH B	KOVACH B PAD	Environmental Health & Safety	NOV - Notice of Violation	
09/05/2018	PA	37-125-24460	LATKANICH	LATKANICH UNIT 2H	Environmental Health & Safety	NOV - Notice of Violation	
10/17/2018	PA	37-051-24633	SIEGEL	SIEGEL 1	Environmental Health & Safety	NOV - Notice of Violation	
11/07/2018	PA	37-059-26921	COMMONWEALTH 496	COMMONWEALTH 496 3H	Environmental Health & Safety	NOV - Notice of Violation	
11/08/2018	PA	37-051-24632	STEWART	STEWART 6H	Environmental Health & Safety	NOV - Notice of Violation	
02/26/2019	PA	37-059-26914 37-059-26920 37-059-26921 37-059-27167 37-059-26922 37-059-26923 37-059-26924 37-059-27538	COMMONWEALTH 496	COMMONWEALTH 496 PAD	Environmental Health & Safety	NOV - Notice of Violation	
03/13/2019	PA	37-051-24633	SIEGEL	SIEGEL 1	Environmental Health & Safety	NOV - Notice of Violation	
03/21/2019	PA	37-051-24486	LEE	LEE PAD	Environmental Health & Safety	NOV - Notice of Violation	
04/25/2019	PA	37-051-24621 37-051-24628 37-051-24629 37-051-24630 37-051-24631 37-051-24632 37-051-24639	STEWART	STEWART PAD	Environmental Health & Safety	NOV - Notice of Violation	
04/26/2019	PA	EXCGP2: ESX18-129-0007		HERMINIE SOUTH WATERLINE	Environmental Health & Safety	NOV - Notice of Violation	
03/21/2019	PA	37-051-24486 37-051-24485	LEE	LEE PAD	Environmental Health & Safety	NOV - Notice of Violation	
05/22/2019	PA	37-129-28558 37-129-28559 37-129-28775 37-129-28561 37-129-28562	BASISTA DERMOTTA	BASISTA DERMOTTA PAD	Environmental Health & Safety	NOV - Notice of Violation	
05/23/2019	PA	EXCGP2: ESX18-129-0007		HERMINIE SOUTH WATERLINE	Environmental Health & Safety	NOV - Notice of Violation	
06/06/2019	PA	37-051-24652 37-051-24653 37-051-24654 37-051-24655 37-051-24656 37-051-24657 37-051-24658 37-051-24659 37-051-24660 37-051-24661 37-051-24662 37-051-24663	YODER	YODER PAD	Environmental Health & Safety	NOV - Notice of Violation	
09/23/2019	PA	37-051-24621 37-051-24628 37-051-24629 37-051-24630 37-051-24631 37-051-24632 37-051-24639	STEWART	STEWART PAD	Environmental Health & Safety	NOV - Notice of Violation	
01/08/2020	PA	37-051-24652 37-051-24653 37-051-24654 37-051-24655 37-051-24656 37-051-24657 37-051-24658 37-051-24659 37-051-24660 37-051-24661 37-051-24662 37-051-24663	YODER	YODER PAD	Environmental Health & Safety	NOV - Notice of Violation	
02/03/2020	PA	37-129-28961 37-129-29015 37-129-29016 37-129-29017 37-129-29018 37-129-29019 37-129-29021 37-129-29020 37-129-29022 37-129-29023	BASISTA DERMOTTA	BASISTA DERMOTTA PAD	Environmental Health & Safety	NOV - Notice of Violation	
02/05/2020	PA	37-129-28979	JP SMITH 1H	JP SMITH 1H	Environmental Health & Safety	NOV - Notice of Violation	
03/30/3030	PA		STEEL HILL RD. TRUCK TURNAROUND	STEEL HILL ROAD TRUCK TURNAROUND	Environmental Health & Safety	NOV - Notice of Violation	
09/24/2013	WV			West Virginia Air Permitting	Health, Environmental, & Safety	NOV - Notice of Violation/ CACP - Consent Assessment of Civil Penalty	\$63,000
05/15/2015	WV	47-051-01395 47-051-01342 47-051-01343 47-051-01386	CROW WITZGALL MCCLAIN SIBURT	CROW WITZGALL MCCLAIN SIBURT	Air Quality	NOV - Notice of Violation	
05/29/2012	WV	47-077-00503 47-077-00567	LANCO* GRIMM LUMBER*	LANCO 1H* GRIM LUMBER*	Health, Environmental, & Safety	NOV - Notice of Violation	
02/14/2012	WV	47-051-01386 47-051-01395	SIBURT 1H* CROW 1H*	SIBURT 1H* CROW 1H*	Health, Environmental, & Safety	NOV - Notice of Violation	
03/08/2018	WV		AST's	VARIOUS	Administrative	NOV - Notice of Violation	

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VIOLATION DATE	State	API PERMIT	FARM NAME	SITE NAME	VIOLATION TYPE* <i>*As Determined by PADEP</i>	ENFORCEMENT CODE & DESCRIPTION	PENALTY AMOUNT
03/04/2020	WV	47-007-00060	WV CUSA Wells	VARIOUS	Administrative	NOV - Notice of Violation	
		47-007-00063					
		47-007-00065					
		47-007-00078					
		47-013-00514					
		47-013-00553					
		47-013-00569					
		47-013-00571					
		47-013-01581					
		47-013-01629					
		47-130-01658					
		47-021-00385					
		47-021-00405					
		47-021-00608					
		47-021-01042					
		47-021-03192					
		47-021-03196					
12/23/2018	OH	34-067-21090	Kinsey	Kinsey 1-24HD	Administrative	Compliance Notice	

FORM E-GP
CONTRACTUAL CONSENT OF LANDOWNER
FOR A GENERAL PERMIT



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
DEP USE ONLY
Date Received

FORM E-GP
CONTRACTUAL CONSENT OF LANDOWNER
FOR A GENERAL PERMIT

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form E-GP, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: XX

SECTION A. SITE IDENTIFIER

Applicant/permittee Chevron Appalachia, LLC

Site Name Dogbone Centralized Tank Farm

Facility ID (as issued by DEP)

Instructions: This form should be completed by each landowner owning a parcel of land within the permit area. If an applicant is applying for a mobile processing permit or land application of waste, completion of Part A of this form is not required.

(I) (We), the undersigned, are the landowner(s) ("Landowner") of a fee title interest at Tax Parcel 19-16-0040-00

223 Rush Run Road on 133.8010 acres of land located in, (location of premises)

Luzerne Township

Fayette County

(Name and Type of Municipality)

(Name of County)

Pennsylvania, and shown by crosshatched lines on the map attached hereto ("Premises") which is signed in the original by the Landowner upon which Chevron Appalachia, LLC

(Solid Waste Management Permit Applicant)

(hereinafter "Applicant") proposes to engage in waste processing and/or beneficial use activities.

Part A: This consent shall be deemed to be a recordable document. Prior to the initiation of solid waste management activities under the permit, this Consent shall be recorded by Applicant

(Landowner or Applicant)

and entered into the deed book (d.b.v.) index at the office of the recorder of deeds in the county(ies) in which the Premises are located.

1. This instrument has been recorded in Fayette County, Pennsylvania, this 28th day of February, 2017, at Book 3333, Page(s) 1935-38

Part B: (I) (We), the undersigned DO HEREBY ACKNOWLEDGE THAT THE APPLICANT AND HIS/HER AGENTS AND REPRESENTATIVES HAVE THE RIGHT TO ENTER UPON AND USE THE LAND FOR THE PURPOSES OF CONDUCTING WASTE MANAGEMENT ACTIVITIES for which application for permit, including this Consent, is made to the Department of Environmental Protection ("Department") under the Act of July 7, 1980 (P.L. 280, No. 97), as amended, known as the Solid Waste management Act (35 P.S. §§6018.101 et seq.) and the regulations promulgated pursuant thereto ("Act"). The right the Landowner grants is not the subject of pending civil litigation. (I) (We), the undersigned, (is or is not)

shall also allow the Applicant access to the Premises to carry out pollution prevention or pollution abatement activities as required by the Act or deemed necessary by the Department to carry out any purpose of the Act.

THE LANDOWNER agrees TO ALLOW THE ABOVE-NAMED APPLICANT TO TRANSFER OR (agrees or does not agree)

ASSIGN, BY WRITTEN AGREEMENT, THIS CONTRACTUAL CONSENT TO ANOTHER SOLID WASTE MANAGEMENT FACILITY APPLICANT.



UPI Certification Date 2/27/2017

19-16-0040

Nothing in this Consent shall preclude or limit the Landowner's authority to terminate the right or privilege of the Applicant to conduct waste management activities on the aforesaid Premises. In the event of such termination, the Landowner shall allow the Applicant ample time to bring to closure all waste management activities.

Part C: (I) (We), the undersigned, do hereby irrevocably grant to the Commonwealth of Pennsylvania or any of its authorized agents, or employees, and to the Applicant the right to enter upon the Premises for the duration of solid waste management activities and for up to ten (10) years after final closure, as such term is defined by the Act, of a processing facility or up to One (1) year(s) after beneficial use activities have ceased for the purposes of inspection, monitoring, and maintenance and for conducting pollution abatement activities deemed necessary by the Department to carry out the purposes or requirements of the Act. (I) (We) do hereby grant in addition to the Commonwealth, for the aforesaid period of time, a right of entry across any lands adjoining or contiguous to the Premises owned by (us) (me) in order to have access to the Premises.

It is specifically agreed and understood that this Consent gives the Commonwealth the right to enter, inspect, monitor, and conduct maintenance or abatement on the Premises to the extent deemed necessary by the Department as a matter within the police power, but does not obligate the Commonwealth to do so, and does not constitute any ownership interest by the Commonwealth in the aforesaid Premises.

I (we) HEREBY CERTIFY UNDER PENALTY OF LAW, 18 Pa. C.S. SECTION 4904(b), THAT THE INFORMATION PROVIDED HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

In witness whereof and intending to legally bind (myself) (ourselves), (my) (our) heirs, legal representatives, successors, (I) (we) have hereunto set (my) (our) hand(s) and seal this 21st day of February, 20 17.

Jonathan J. Orbash and Susan P. Orbash
(Print Name of Landowner)

If the Landowner is an Individual:

WITNESS:

Patrick D. Champion
(Signature of Witness)

Patrick D. Champion
(Printed or Typed Name of Witness)

Patrick D. Champion
(Signature of Witness)

Patrick D. Champion
(Printed or Typed Name of Witness)

Jonathan J. Orbash
(Signature of Landowner)

Jonathan J. Orbash
(Printed or Typed Name of Landowner)

Susan P. Orbash
(Signature of Landowner)

Susan P. Orbash
(Printed or Typed Name of Landowner)

If the Landowner is a Corporation:

ATTEST:

By: _____
(Signature of Secretary or Treasurer)

(Printed or Typed Name)

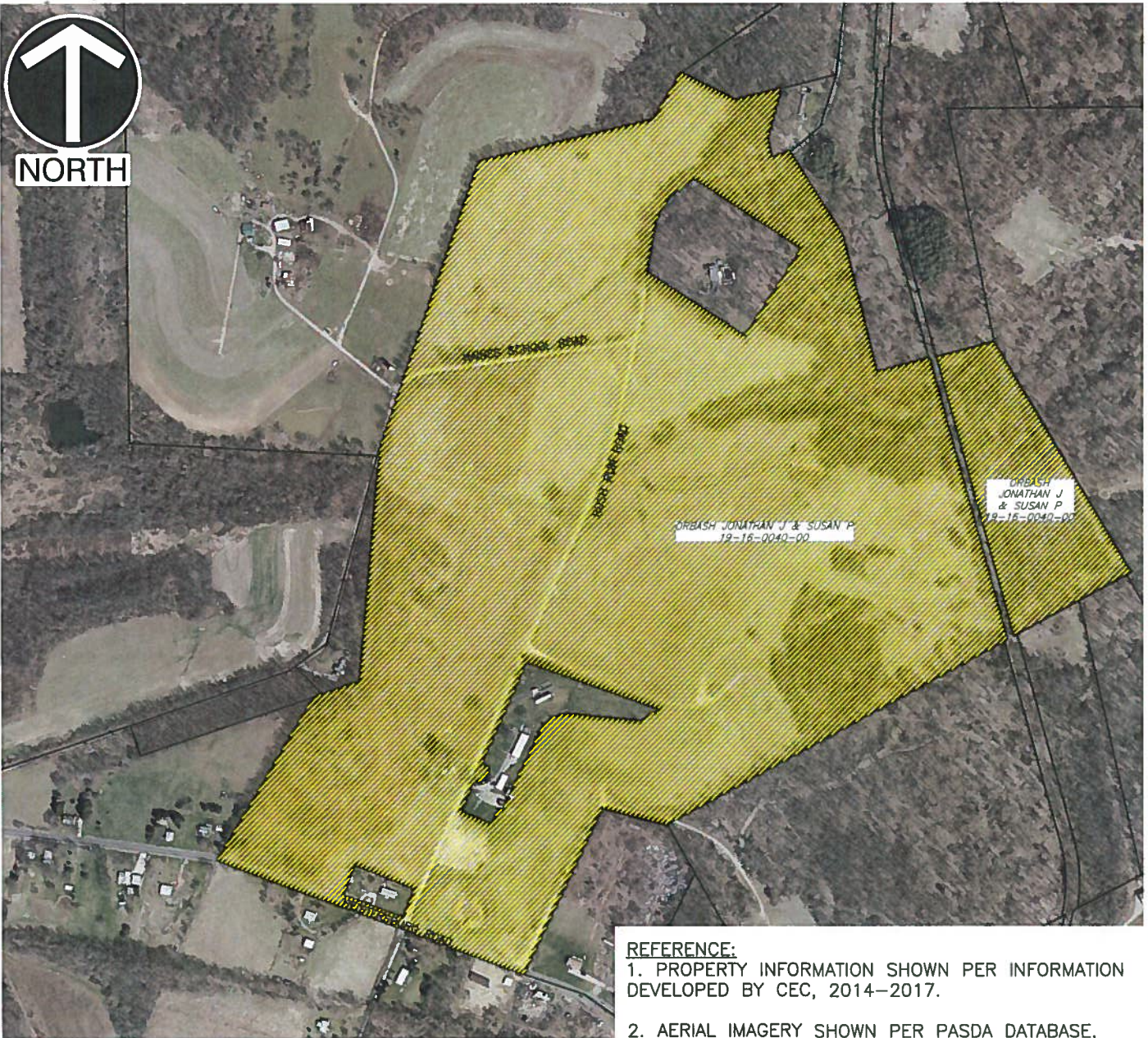
(Title)

(Signature of President or V.P.)

(Printed or Typed Name)

(Title)

Affix Corporate Seal:



REFERENCE:

1. PROPERTY INFORMATION SHOWN PER INFORMATION DEVELOPED BY CEC, 2014-2017.
2. AERIAL IMAGERY SHOWN PER PASDA DATABASE, 2006.

ACKNOWLEDGEMENT:

x *Jonathan J. Orbash*
 x *Susan P. Orbash*

SIGNATURE

JONATHAN J. ORBASH

SUSAN P. ORBASH

PRINTED NAME

LEGEND



PROPERTY THAT IS THE SUBJECT OF THIS FORM E-GP



PROPERTY BOUNDARY

SCALE IN FEET



* HAND SIGNATURE ON FILE



Civil & Environmental Consultants, Inc.

4000 Triangle Lane, Suite 200 - Export, PA 15632
 724-327-5200 · 800-899-3610
 www.cecinc.com

CHEVRON APPALACHIA, LLC
 DOGBONE CENTRALIZED TANK FARM
 LUZERNE TOWNSHIP,
 FAYETTE COUNTY, PENNSYLVANIA

FORM E-GP MAP

DRAWN BY:	TCB	CHECKED BY:	EDC	APPROVED BY:	EDC	FIGURE NO.:	E-GP-1
DATE:	JANUARY 13, 2017	DWG SCALE:	1"=600'	PROJECT NO.:	163-208		

P:\2016\163-208\CADD\Drawg\CV03-IMGR0123\163208-CV03-SP1-FIGURE E-GP-1.dwg FIGURE E-GP-1 LS:(1/17/2017 5:54 PM - LP: 1/17/2017 5:54 PM - tbd\win)

201700002241
Filed for Record in
FAYETTE COUNTY, PA
DAVID G. MALOSKY, RECORDER
02-28-2017 At 01:16 pm.
CNSTN LAND 37.00
OR Book 3333 Page 1935 - 1938

STATE OF PENNSYLVANIA

COUNTY OF FAYETTE

On this, the 28th day of February, 2017, before me

Thomas M. Simmons, the undersigned officer, personally appeared Patrick D. Champlin, known to me (or satisfactorily proven) to be a subscribing witness to the within instrument, and certified that he/she/they was(were) personally present when Jonathan J. Orbash and Susan P. Orbash, whose names are subscribed to the within instrument executed the same, and that said persons acknowledged that they executed the same for the purposes therein contained.

In witness whereof, I hereunto set my hand and official seal.

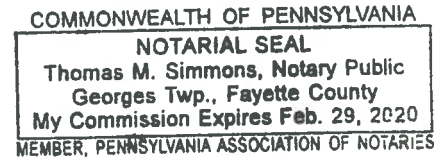
Thomas M. Simmons

Notary Public

Printed Name: Thomas M. Simmons

My Commission Expires:

2/29/2020



I hereby CERTIFY that this document is recorded in the Recorder's Office of Fayette County, Pennsylvania.



David G. Malosky

DAVID G. MALOSKY
RECORDER OF DEEDS

201700002241
CHEVRON APPALACHIA LLC
ATTN: PAT CHAMPLIN
800 MOUNTAIN VIEW DR
SMITHFIELD PA 15478

FORM 20

**APPLICATION FOR A MUNICIPAL OR RESIDUAL WASTE
GENERAL PERMIT**



DEP USE ONLY	
Client ID: _____	APS ID: _____
Auth ID: _____	Site ID: _____
General Permit ID: _____	

FORM 20

APPLICATION FOR A MUNICIPAL OR RESIDUAL WASTE GENERAL PERMIT

This Form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, attach separate sheet(s) to this Form.

SECTION A. GENERAL INFORMATION

Check New Permit (Residual Waste: \$2000. Permit Modification (\$300) Determination of Applicability (\$500) under general permit
 One: Municipal Waste: \$1000) under general permit WMG _____
 Permit Renewal (\$300) WMG _____ Registration (\$250) under general permit WMG _____

SECTION B. APPLICANT INFORMATION

Organization Name or Registered Fictitious Name: Chevron Appalachia, LLC	Contact Person: Last Name Weimer First Name Branden MI _____ Suffix _____ Title Senior Permitting Advisor
Employer ID (EIN) #: 208243540	Mailing Address: Street 700 Cherrington Parkway P.O. Box (if applicable) _____ City Coraopolis State PA Zip + 4 15108
Dun & Bradstreet ID #:	Telephone: (412) 865-3140 Fax: _____ Email: bweimer@chevron.com

SECTION C. SITE INFORMATION

Site Name: Chevron Appalachia, LLC – Dogbone Centralized Water Facility	Location: County Fayette Municipality Luzerne <input type="checkbox"/> City <input type="checkbox"/> Borough <input checked="" type="checkbox"/> Twp.
Site Address: Street Rush Run Road City Millsboro P.O. Box (if applicable) _____ State PA Zip + 4 15433	Site Contact Person: Last Name Weimer First Name Branden MI _____ Suffix _____ Title Senior Permitting Advisor Telephone: (412) 865-3140
Site NAICS Codes (2 & 3 Digit Codes List All That Apply): 211	Email: bweimer@chevron.com Fax: _____
Site NAICS Codes (6-Digit Codes Optional): 211111	Applicant to Site Relationship: Leaseholder
Size of Site: 8.2 (Acres)	Property Size: 133.8 (Acres)
Site Latitude: Degrees 39 Minutes 58 Seconds 21	Site Longitude: Degrees 79 Minutes 56 Seconds 49
Property owner in which the site is located: Parcel No. 19-16-0040-00 (Jonathan J. and Susan P Orbash) Detailed Directions to Site: Head south on PA-51/Sawmill Run Boulevard to the PA-43 South ramp. Take the exit ramp and continue onto PA-43 South. After approximately 26 miles, take Exit 26 toward Brownsville Republic. At the end of the exit ramp, turn right onto T601/Telegraph Road, then make the first right to stay on T601/Telegraph Road. After 1.6 miles, continue onto Rush Run Road. The site entrance will be approximately 1.0 mile ahead on the right.	

SECTION D. CONSULTANT INFORMATION

Company Name: Civil & Environmental Consultants, Inc. Mailing Address: Street 4350 Northern Pike, Suite 141 P.O. Box (if applicable) _____ City Monroeville State PA Zip + 4 15146	Consultant: Last Name Hamill First Name Jill MI _____ Suffix _____ Title Project Manager Telephone (724) 327-5200 Fax (724) 327-5280 Email jhamill@cecinc.com
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SECTION E. PROJECT INFORMATION

Project description. If additional space is necessary, attach separate sheet(s) to this Form. **Refer to Previously Approved Application**

1. Type and amount or volume of waste estimated in the proposed beneficial use activities (use a separate sheet, if necessary)
Refer to Application Narrative
2. Attach a copy of Form HW-C (Compliance History). **Attached**
3.
 - a. If processing prior to beneficial use is proposed:
 - i. Attach a copy of Form B (Professional Certification). **Attached**
 - ii. Attach a copy of the General Information Form (GIF). **Attached**
 - b. If beneficial use only is proposed, submit a copy of Form B (Professional Certification) if required.
4. Attach a copy of Form E-GP (Contractual Consent of Landowner for A General Permit). **Attached**
The Form E-GP (Contractual Consent of Landowner for A General Permit) is not required to be recorded in the Recorder of Deeds Office if agricultural utilization by land application of residual waste is involved.
5. Waste Processing Descriptions – Note: Omit this section if the application is for beneficial use only. **Refer to Previously Approved Application**
 - a. Provide, on 8-1/2" x 11" paper, flow schematics of waste processing starting with the municipal or residual waste and ending with the proposed waste material to be covered by the general permit for beneficial use. Include a description of the equipment involved, the waste material added and the nuisance control plan.
 - b. Plan for alternative management of waste during periods when the facility is not in operation, including procedures to be followed in case of equipment breakdown.

Note: All information contained in this section will be made available to the public unless clearly labeled as confidential. If the entire process concept is considered proprietary or otherwise confidential, an application for an individual processing permit should be submitted instead of this application for a general permit. Claim of confidentiality shall address the following:

 - A. The portions of the information claimed to be confidential.
 - B. The length of time the information is to remain confidential.
 - C. The measures taken to guard undesired disclosures of the information to others.
 - D. The extent the information has been disclosed to others and the precautions taken in connection with that disclosure.
 - E. A copy of pertinent confidentiality determinations by EPA or any other federal agency.
 - F. The nature of the substantial harm to the competitive position by disclosure if the information is considered non-confidential, the reason it should be viewed as substantial, and the relationship between the disclosure and the harm."
6. Contingency Plan – A contingency plan, relating to emergency procedures, must be developed and implemented for the proposed waste management facility. The plan must include a Preparedness, Prevention and Contingency (PPC) Plan that is consistent with the Department's most recent guidelines, **Refer to Previously Approved Application**
<http://164.156.71.80/VWRQ.asp?docid=2087d8407c0e0000000008900000089&context=2&backlink=WXOD.aspx%3ffs%3d2087d8407c0e0000800000820000082%26ft%3d1>
(Note: Depending on the complexity of the proposed processing operations, the Department may require completion of Form L – Contingency Plan for Emergency Procedures).
7. Provide proof that a Pennsylvania Natural Diversity Inventory (PNDI) Project Planning Environmental Review was conducted. The review can only be conducted via the internet at the www.naturalheritage.state.pa.us/ website. First time users will have to register at the website before conducting the review. A receipt is automatically available for printing upon completion of the PNDI review. This receipt must be submitted as part of this application. **Refer to Previously Approved Application**
8. Facility Map – Provide a drawing of the proposed permit and adjacent areas in a scale of 1 inch equals no more than 50 feet with 2-foot maximum contour intervals showing the following: **Refer to Previously Approved Application**
 - i. Boundaries
 - ii. Access roads (include slopes, grades, dimensions), easements, right-of-way, and other property interests for proposed permit area.
 - iii. Barriers, fences, and similar structures required for access control.
 - iv. Storm water control features, erosion and sedimentation controls, treatment, storage, and discharge facilities.
 - v. Surface water bodies: springs, streams, lakes, ponds, wetlands, constructed or natural drains, and irrigation ditches.
 - vi. Water diversion, collection, conveyance, erosion and sedimentation control, treatment, storage, and discharge facilities.
 - vii. Residual or municipal waste storage and loading/unloading areas.
 - viii. All buildings and related facilities used in the operation of the facility. This must include horizontal and vertical dimensions.
 - ix. Processing pads, tipping areas, storage areas, and windrows (including leachate or wastewater collection systems).
 - x. Areas for which a bond will be posted, if required by the Department. **Refer to Previously Approved Application**
9. Location Map – Provide a copy of USGS 7-1/2 minute quadrangles, topographic map or equivalent map, identifying location of the proposed facility.
Refer to Previously Approved Application
10. Supply proof of contact with host municipality and county regarding submittal of this application. **Refer to Attached Notification Letters**
11. Describe the impact the operations may have on local traffic and any measures that will be implemented to minimize the impact.
Refer to Previously Approved Application
12. For processing facilities, does the applicant have a Highway Occupancy Permit for this facility issued by PennDOT or by the local municipality? If yes, please attach the permit and any conditions. If no, please explain. **Refer to Previously Approved Application**

Note: Prior to submitting an application for a determination of applicability, registration or permit renewal, the applicant should review the general permit and make sure the application contains information to address the requirements in the general permit. For example, for general permits that

contain siting restrictions, relevant features (schools, streams, occupied dwellings, etc.) should be shown on the map. For features that are not found on the map, a statement should be included in the narrative that they are not present within the restricted distances. The applicant should contact the appropriate regional office if they have any questions as to what information should be included in their application.

SECTION F. CHEMICAL ANALYSIS

As specified in §271.611 and §287.132, a chemical analysis of the waste material that is proposed to be processed and/or for beneficial use shall be performed by a laboratory accredited or registered for accreditation under the Pennsylvania Environmental Laboratory Accreditation Act, Act of 2002, No. 25, and as indicated below:

No single analytical method is applicable for all waste streams and some modifications may be necessary for unusual waste types. Any modifications, however, must be approved by the Department. Sample(s) shall be collected, preserved and holding times adhered to in accordance with EPA or ASTM requirements. Samples for organic volatile parameters shall be collected in a manner to minimize loss of the parameters. Procedures used for sample collection and preservation must be stated along with dates of collection, laboratory receipt and analysis. The person collecting the sample should be identified.

Note: The Department may require analysis for other constituents not listed below if the additional data may aid in determining whether the proposed use is beneficial, whether there will be harm or threat of harm to humans or the environment, or whether they could otherwise limit the proposed activity. **Refer to Attachment 20-6**


1. Chemical Analysis of Municipal or Residual Waste for a registration or a DOA application – The analysis of the unprocessed and/or processed waste must include the following:
 - i. Analytical requirements identified in the general permit for unprocessed and/or processed waste.
 - ii. Hazardous waste determination – As required under 40 CFR 262.11, as incorporated by reference at 25 Pa. Code 262a.1.
 - iii. Any other parameters identified by the generator, processor, or person who will beneficially use the waste as those which are important to or potentially limiting to the proposed processing or beneficial use of the waste.
2. Chemical Analysis of Municipal or Residual Waste for a new general permit – The analysis of the proposed waste must include the following:
 - i. Analytical requirements as required by the Department.
 - ii. Any other parameters identified by the processor, or person who will beneficially use the waste as those which are potentially limiting to the proposed processing or beneficial use of the waste.

Note: This section does not apply to transfer facilities that only store municipal or residual waste.

SECTION G. CERTIFICATION

I, Branden Weimer (please print) do hereby acknowledge that I am an official of the Company making a new application/renewal application/registration/determination of applicability and that I have read, understand, and/or accept the terms and Conditions of the General Permit identified in Section A, and I have informed the appropriate Company personnel of the requirements of the identified general permit.

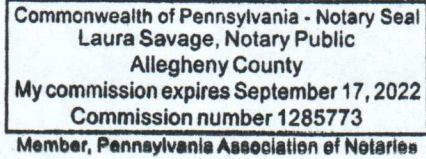
I, Branden Weimer do hereby certify pursuant to the penalties of 18 Pa. C.S.A. §4904 to the best of my knowledge, information, and belief, that the information contained in this document is true and correct.

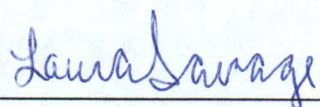

Senior Permitting Advisor
4/27/2020

Signature Title Date

Notary's Seal: Commonwealth of Pennsylvania
County of Allegheny

Taken, sworn, and subscribed before me, this 27th day of April, A.D. 2020

NOTARY SEAL 


 Notary's Signature

**PROOF OF NOTIFICATION TO
HOST MUNICIPALITY AND COUNTY**



May 1, 2020

CERTIFIED MAIL NO.: 7016 1370 0002 1178 4020

Fayette County Commissioners
Fayette County Courthouse
61 East Main Street
Uniontown, Pennsylvania 15401

Dear Commissioners:

Subject: Act 14 Notification
Permit Renewal for General Permit No. WMGR123SW025
Dogbone Centralized Water Facility
Chevron Appalachia, LLC
Luzerne Township, Fayette County, Pennsylvania
CEC Project 302-210.0001

On behalf of Chevron Appalachia, LLC (Chevron), Civil & Environmental Consultants, Inc. (CEC) provides this notification that an application for renewal of a Municipal or Residual Waste General Permit will be submitted to the Pennsylvania Department of Environmental Protection (DEP). This application requests a renewal of General Permit No. WMGR123SW025. The permit allows Chevron to store and process (consisting of mixing and settling) produced water, brine, and freshwater in five (5) 1,000,000-gallon capacity tanks at the Dogbone Centralized Water Facility in Luzerne Township, Fayette County, Pennsylvania. The water will be beneficially reused for drilling operations.

Information on the permit renewal application may be obtained from the DEP, whose address is provided below:

Pennsylvania Department of Environmental Protection
Waste Management Program
400 Waterfront Drive
Pittsburgh, Pennsylvania 15222-4745

If you should require additional information, please contact Mr. Branden Weimer of Chevron Appalachia, LLC at (412) 865-3140.

Very truly yours,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

Jill R. Hamill, P.E.
Project Manager

Eric D. Chiado, P.E.
Vice President

JRH:EDC/jg

L-302210.0001.May1/P



May 1, 2020

CERTIFIED MAIL NO.: 7016 1370 0002 1178 4037

Luzerne Township Supervisors
415 Hopewell Road
Brownsville, Pennsylvania 15417

Dear Supervisors:

Subject: Act 14 Notification
Permit Renewal for General Permit No. WMGR123SW025
Dogbone Centralized Water Facility
Chevron Appalachia, LLC
Luzerne Township, Fayette County, Pennsylvania
CEC Project 302-210.0001

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400 Waterfront Drive
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Very truly yours,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

Jill R. Hamill, P.E.
Project Manager

Eric D. Chiado, P.E.
Vice President

JRH:EDC/jg

L-302210.0001.May1/P

UPDATED CHEMICAL ANALYSES



Client: CHEVRON U.S.A. INC. - WATER
Project: Chevron 26R Water
Lab Order: G1912C72

CASE NARRATIVE

No problems were encountered during analysis of this workorder, except if noted in this report.

Legend: ND - Not Detected at the Quantitation Limit
J - Indicates an estimated value
U - The analyte was not detected at or above the listed concentration, which is below the laboratory quantitation limit
B - Analyte detected in the associated Method Blank
Q - Qualifier QL - Quantitation Limit DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
** - Value exceeds Action Limit
H - Method Hold Time Exceeded
MCL - Contaminant Limit



Laboratory Results



**GEOCHEMICAL
TESTING**

Environmental and Energy Analysis

2005 N. Center Ave.
Somerset PA 15501

814-443-1671
814-445-6666
FAX:814-445-6729

Client:	CHEVRON U.S.A. INC. - WATER	Client Sample ID:	Commonwealth Pad A_WW
Lab Order:	G1912C72		BW_Commonwealth Pad A_20191219
Project:	Chevron 26R Water	Sampled By:	Geochemical Testing
Lab ID:	G1912C72-001	Collection Date:	12/19/2019 09:10
Matrix:	Waste Water	Received Date:	12/19/2019 12:59

Analyses	Result	QL	Q	Units	DF	Date Analyzed
Indicator Organic Parameters						
			SM 5210 B			Analyst: MKH
BOD 5-day	1160	300		mg/L	300	12/24/2019 10:25
NOTES:						
L2 - LCS below the acceptance limits. Result may be biased low.						
Indicator Organic Parameters						
			HACH 8000			Analyst: AVH
Chemical Oxygen Demand	5300	2000		mg/L	20	12/20/2019 15:18
Inorganic Non-Metals						
			EPA 300.0			Analyst: MBG
Bromide	626	40.0		mg/L	200	12/19/2019 18:54
Chloride	67100	200		mg/L	200	12/19/2019 18:54
Sulfate	< 400	400		mg/L	200	12/19/2019 18:54
Inorganic Non-Metals						
			SM 5540 C			Analyst: MJR
MBAS	0.46	0.25		mg/L as LAS	5	12/19/2019 19:25
NOTES:						
The complete unit designation is "mg/L MBAS (calculated as LAS, molar weight 342.)"						
Inorganic Non-Metals						
			EPA 350.1			Analyst: JMS
Ammonia Nitrogen	92.3	5.00		mg/L as N	50	12/19/2019 18:28
Inorganic Non-Metals						
			EPA 353.2			Analyst: DMM
Nitrate - Nitrite	0.07	0.05		mg/L as N	1	12/20/2019 10:13
Indicator Organic Parameters						
			EPA 420.4			Analyst: DMM
Phenolics	< 200	200		µg/L	10	12/20/2019 11:29
Inorganic Non-Metals						
			HACH 10242			Analyst: MJR
Total Kjeldahl Nitrogen	< 100	100		mg/L as N	100	12/26/2019 16:53



Laboratory Results



**GEOCHEMICAL
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Environmental and Energy Analysis

2005 N. Center Ave.
Somerset PA 15501

814-443-1671
814-445-6666
FAX:814-445-6729

Client:	CHEVRON U.S.A. INC. - WATER	Client Sample ID:	Commonwealth Pad A_WW
Lab Order:	G1912C72		BW_Commonwealth Pad A_20191219
Project:	Chevron 26R Water	Sampled By:	Geochemical Testing
Lab ID:	G1912C72-001	Collection Date:	12/19/2019 09:10
Matrix:	Waste Water	Received Date:	12/19/2019 12:59

Analyses	Result	QL	Q	Units	DF	Date Analyzed
Inorganic Metals		EPA 200.7				Analyst: MEG
Iron, dissolved	136	0.50		mg/L	10	12/27/2019 00:09
Inorganic Metals		SM 3112 B				Analyst: LXM
Mercury	< 0.20	0.20		µg/L	1	12/27/2019 12:05
Inorganic Metals		EPA 200.8				Analyst: LXM
Thorium	< 10	10		µg/L	10	12/23/2019 13:48
NOTES:	Sample was digested at a dilution based on historical data.					
Uranium	< 10	10		µg/L	10	12/23/2019 13:48
NOTES:	Sample was digested at a dilution based on historical data.					
Inorganic Metals		EPA 200.7				Analyst: MEG
Aluminum	< 1.0	1.0		mg/L	10	12/27/2019 00:05
Arsenic	< 0.20	0.20		mg/L	10	12/27/2019 00:05
Barium	1990	5.00		mg/L	500	12/26/2019 21:54
Beryllium	< 0.010	0.010		mg/L	10	12/27/2019 00:05
Boron	29.0	0.50		mg/L	10	12/27/2019 00:05
Cadmium	< 0.020	0.020		mg/L	10	12/27/2019 00:05
Calcium	9930	5.0		mg/L	50	12/26/2019 22:08
Chromium	0.11	0.10		mg/L	10	12/27/2019 00:05
Cobalt	< 0.050	0.050		mg/L	10	12/27/2019 00:05
Copper	< 0.10	0.10		mg/L	10	12/27/2019 00:05
Iron	149	0.50		mg/L	10	12/27/2019 00:05
Lead	< 0.20	0.20		mg/L	10	12/27/2019 00:05
Lithium	63.8	1.00		mg/L	100	12/26/2019 22:03
Magnesium	877	5.0		mg/L	50	12/26/2019 22:08
Manganese	3.39	0.10		mg/L	10	12/27/2019 00:05
Molybdenum	< 0.20	0.20		mg/L	10	12/27/2019 00:05
Nickel	< 0.10	0.10		mg/L	10	12/27/2019 00:05
Selenium	< 0.20	0.20		mg/L	10	12/27/2019 00:05
Silver	< 0.050	0.050		mg/L	10	12/27/2019 00:05



Laboratory Results



**GEOCHEMICAL
TESTING**
Environmental and Energy Analysis

2005 N. Center Ave.
Somerset PA 15501

814-443-1671
814-445-6666
FAX:814-445-6729

Client:	CHEVRON U.S.A. INC. - WATER	Client Sample ID:	Commonwealth Pad A_WW
Lab Order:	G1912C72		BW_Commonwealth Pad A_20191219
Project:	Chevron 26R Water	Sampled By:	Geochemical Testing
Lab ID:	G1912C72-001	Collection Date:	12/19/2019 09:10
Matrix:	Waste Water	Received Date:	12/19/2019 12:59

Analyses	Result	QL	Q	Units	DF	Date Analyzed
Sodium	28000	20.0		mg/L	100	12/26/2019 22:03
Strontium	1790	5.00		mg/L	500	12/26/2019 21:54
Zinc	0.85	0.10		mg/L	10	12/27/2019 00:05
Hardness (SM 2340B)	28400	50.0		mg/L CaCO3	50	12/26/2019 22:08

GCFID Analysis

EPA 8015 C

Analyst: TEW

Ethylene Glycol	< 100	100	mg/L	5	12/19/2019 18:07
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NOTES:

D6 - Sample was diluted and the reporting limits were raised to achieve method compliant internal standard recovery.

Surr: Surr: 1,2-butanediol	148	50-150	%REC	5	12/19/2019 18:07
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NOTES:

D6 - Sample was diluted and the reporting limits were raised to achieve method compliant internal standard recovery.

Volatile Organic Compounds

EPA 624.1

Analyst: SJM

Benzene	8.7	0.5	µg/L	1	12/19/2019 18:44
Toluene	13.0	0.5	µg/L	1	12/19/2019 18:44
Surr: Surr: 1,2-Dichloroethane-d4	97.7	78-122	%REC	1	12/19/2019 18:44
Surr: Surr: 4-Bromofluorobenzene	97.1	74-123	%REC	1	12/19/2019 18:44
Surr: Surr: Toluene-d8	98.7	79-117	%REC	1	12/19/2019 18:44

Indicator Organic Parameters

EPA 1664 B

Analyst: JML

Oil & Grease	957	5	mg/L	1	12/20/2019 14:05
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NOTES:

E2 - Unable to obtain a stable weight within specified limits due to sample matrix. Value is estimated.

Inorganic Non-Metals

SM 2310B(4a)

Analyst: AMV

Acidity to pH 8.3	200		mg/L CaCO3	1	12/20/2019 13:26
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Physical Tests

EPA 120.1

Analyst: AMV

Specific Conductance	99400	5	µmhos/cm	1	12/20/2019 10:24
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Laboratory Results



**GEOCHEMICAL
TESTING**
Environmental and Energy Analysis

2005 N. Center Ave.
Somerset PA 15501

814-443-1671
814-445-6666
FAX:814-445-6729

Client:	CHEVRON U.S.A. INC. - WATER	Client Sample ID:	Commonwealth Pad A_WW
Lab Order:	G1912C72		BW_Commonwealth Pad A_20191219
Project:	Chevron 26R Water	Sampled By:	Geochemical Testing
Lab ID:	G1912C72-001	Collection Date:	12/19/2019 09:10
Matrix:	Waste Water	Received Date:	12/19/2019 12:59

Analyses	Result	QL	Q	Units	DF	Date Analyzed
pH by SM 4500 H+B						
Lab pH	6.37		SM 4500-H+ B	S.U.	1	Analyst: AMV 12/20/2019 10:24
Inorganic Non-Metals						
Total dissolved solids	102000	100		mg/L	5	Analyst: GMG 12/20/2019 12:57
Physical Tests						
Total suspended solids	452	8		mg/L	4	Analyst: GMG 12/19/2019 17:29
Inorganic Non-Metals						
Alkalinity to pH 4.5	233	10		mg/L CaCO ₃	1	Analyst: AMV 12/20/2019 10:24



Laboratory Results



**GEOCHEMICAL
TESTING**
Environmental and Energy Analysis

2005 N. Center Ave.
Somerset PA 15501

814-443-1671
814-445-6666
FAX:814-445-6729

Client:	CHEVRON U.S.A. INC. - WATER	Client Sample ID:	Trip Blank
Lab Order:	G1912C72		BW_Commonwealth Pad A_20191219
Project:	Chevron 26R Water	Sampled By:	Geochemical Testing
Lab ID:	G1912C72-002	Collection Date:	12/19/2019 12:58
Matrix:	Aqueous	Received Date:	12/19/2019 12:59

Analyses	Result	QL	Q	Units	DF	Date Analyzed
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GCFID Analysis		EPA 8015 C				Analyst: TEW
Ethylene Glycol	< 20	20		mg/L	1	12/19/2019 18:21
Surr: Surr: 1,2-butanediol	130	50-150		%REC	1	12/19/2019 18:21

Volatile Organic Compounds		EPA 624.1				Analyst: SJM
Benzene	< 0.5	0.5		µg/L	1	12/19/2019 17:32
Toluene	< 0.5	0.5		µg/L	1	12/19/2019 17:32
Surr: Surr: 1,2-Dichloroethane-d4	93.3	78-122		%REC	1	12/19/2019 17:32
Surr: Surr: 4-Bromofluorobenzene	96.0	74-123		%REC	1	12/19/2019 17:32
Surr: Surr: Toluene-d8	102	79-117		%REC	1	12/19/2019 17:32



FORM 27R

ACCEPTANCE OF GENERAL PERMIT CONDITIONS



Date Prepared/Revised April 2020
DEP USE ONLY
Date Received

FORM 27R ACCEPTANCE OF GENERAL PERMIT CONDITIONS

Instructions: This Form must be completed and signed by a responsible official of the company requesting approval under a General Permit requested by an association or other organization; or a company or municipality "Registering" or submitting a "Determination of Applicability" application to conduct the activities authorized by the General Permit identified in Part A. A responsible official is defined to be: for corporations, the corporate officers; for limited partnerships, the general partners; for all other partnerships, the partners; for a sole proprietorship, the proprietor; for a municipal, State or Federal authority or agency, an executive officer or ranking elected official responsible for the residual waste activities and facilities of the authority or agency and for compliance with all applicable rules and regulations. No activities are authorized by the submission of this Form; however, the "Registration" or "Determination of Applicability" is not valid until this Form, properly completed, is received by the Department and the Department's approval to operate under the General Permit is granted.

Part A: General Permit Information: (provide the following information on the applicable General Permit on which this acceptance form is being submitted.)

General Permit No. WMGR123 Date Issued: October 4, 2010

Approving: (describe approval granted in original general permit) General Permit Numbered WMGR123 was issued to Hydro Recovery, LP for the processing of wastewater (i.e., flow back gas well water - frac water) from various Marcellus Shale gas drilling operations and reuse in hydraulic stimulation of Marcellus Shale drilling operations for the extraction of natural gas.

PART B: Applicant: (Provide information on company making application for this Registration or Determination of Applicability)

Company: Chevron Appalachia, LLC

Address: 700 Cherrington Parkway

Municipality: Coraopolis State: PA Zip: 15108

PART C: Acceptance:

I, Branden Weimer, do hereby acknowledge that I am an official of the Company identified in Part B, and that I have read, understand, and accept the Conditions of the General Permit identified in Part A, and that I have informed the appropriate Company personnel of the requirements of our permit.

[Signature], Senior Permitting Advisor, 4/27/2020
(Signature) (Title) (Date)

PART D: Notary's Seal: Commonwealth of Pennsylvania
County of Allegheny

Taken, sworn, and subscribed before me, this 27th day of April A.D. 2020

NOTARY SEAL

Laura Savage
(Notary's Signature)

