SHELL PIPELINE COMPANY LP
FALCON ETHANE PIPELINE SYSTEM
GREENE, INDEPENDENCE, POTTER, AND RACCOON TOWNSHIPS, BEAVER COUNTY PENNSYLVANIA

Joint Permit Application

September 2017
UPDATED December 2018

Prepared for:

Shell Pipeline Company LP

150 North Dairy Ashford
Houston, TX 77079

Submitted by:

AECOM

Foster Plaza 6
681 Andersen Drive, Suite 400
Pittsburgh, PA 15220

TABLE OF CONTENTS

Requirement A

General Information Form (GIF) and Permit Application

1300-PM-BIT0001 5/2012
Form

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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.

Related ID#s (If Known)		DEP USE ONLY
Client ID#	**APS ID#**	Date Received & General Notes
Site ID#	**Auth ID#**	
Facility ID#		

CLIENT INFORMATION

DEP Client ID#	Client Type / Code
	LLP

Organization Name or Registered Fictitious Name	Employer ID# (EIN)	Dun & Bradstreet ID#
Shell Pipeline Company LP	52-2074528	

Individual Last Name	First Name	MI	Suffix	SSN
Van Stone	Stephen			

Additional Individual Last Name	First Name	MI	Suffix	SSN
Alley	Pam			

Mailing Address Line 1	Mailing Address Line 2
150 North Dairy Ashford	

Address Last Line – City	State	ZIP+4	Country
Houston	Texas	77079	USA

Client Contact Last Name	First Name	MI	Suffix
Wooten	Robert	B.	

Client Contact Title	Phone	Ext
Senior Staff Land Agent	(832) 762-2568	

Email Address	FAX
Robert.Wooten@shell.com	N/A

SITE INFORMATION

DEP Site ID#	Site Name
	Falcon Ethane Pipeline System

EPA ID# **Estimated Number of Employees to be Present at Site** 0

Description of Site
Agricultural land, forest, developed land (residental, commercial, and municipal), streams, and wetlands.

County Name	Municipality	City	Boro	Twp	State
Beaver	Greene and Independence	☐	☐	☒	

County Name	Municipality	City	Boro	Twp	State
Beaver	Potter and Raccoon	☐	☐	☒	

Site Location Line 1	Site Location Line 2
northern termini: 40.621338, -80.349093, southern termni: 40.514094, -80.309685	western termni: 40.582464, -80.518774

Site Location Last Line – City	State	ZIP+4
Monaca	PA	15061

Detailed Written Directions to Site
From I-376W take exit 39 toward Monaca/Shipping Port. Turn left onto PA-18S/Hwy 18S and follow for approximately 1.2 miles.This will take you to the northern termni at the Pennsylvania Petrochemical Facility.

Site Contact Last Name	First Name	MI	Suffix
Wooten	Robert		

Site Contact Title	Site Contact Firm
Senior Staff Land Agent	Shell Pipeline Company LP

Mailing Address Line 1	Mailing Address Line 2
150 North Dairy Ashford #A2036G	

Mailing Address Last Line – City	State	ZIP+4
Houston	TX	77079

Phone	Ext	FAX	Email Address
(832) 762-2568			Robert.Wooten@shell.com

NAICS Codes (Two- & Three-Digit Codes – List All That Apply) **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?	☐	☒
2. Will this project involve an addition to an existing facility, system, or activity?	☐	☒

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

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

Latitude/Longitude Point of Origin	Latitude			Longitude		
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
GPS	40	38	**35**	80	21	**18**

Horizontal Accuracy Measure Feet +/-3 *--or--* Meters

Horizontal Reference Datum Code
- ☐ North American Datum of 1927
- ☒ North American Datum of 1983
- ☐ World Geodetic System of 1984

Horizontal Collection Method Code GIS DR

Reference Point Code CNTAR

Altitude Feet ~684 to 1,298 *--or--* Meters

Altitude Datum Name
- ☐ The National Geodetic Vertical Datum of 1929
- ☒ The North American Vertical Datum of 1988 (NAVD88)

Altitude (Vertical) Location Datum Collection Method Code TOPO

Geometric Type Code POINT

Data Collection Date 2015-2017

Source Map Scale Number 1 Inch(es) = 2,000 Feet

--or-- Centimeter(s) = Meters

PROJECT INFORMATION

Project Name
Falcon Ethane Pipeline System

Project Description
Installation of an ethane pipeline to bring product to the Pennsylvania Petrochemical Plant in Monaca, Pennsylvania.

Project Consultant Last Name	First Name	MI	Suffix
Shearer	Natalie	L	

Project Consultant Title	Consulting Firm
Natural Resources Lead	AECOM Technical Services, Inc.

Mailing Address Line 1	Mailing Address Line 2
Foster Plaza 6	681 Andersen Drive

Address Last Line – City	State	ZIP+4
Pittsburgh	PA	15220

Phone	Ext	FAX	Email Address
412-503-4595			natalie.shearer@aecom.com

Time Schedules	Project Milestone (Optional)
Sept./October 2018	Start of Construction
Fall 2018	**Start tree clearing**
Spring 2019-Fall 2019	**Full construction**
Spring 2020	**Comissioning**
Fall 2019-Spring 2020	**Restoration**

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? If zoning approval has been received, attach documentation. ☐ Yes ☒ No

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.	☐	Yes	☒	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?**	☐	Yes	☐	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?**	☐	Yes	☐	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?**	☐	Yes	☐	No
1.4	**For this coal mining project, will sewage treatment facilities be constructed and treated waste water discharged to surface waters?**	☐	Yes	☐	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?**	☐	Yes	☐	No
1.6	**Will this coal mining project involve underground coal mining to be conducted within 500 feet of an oil or gas well?**	☐	Yes	☐	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.	☐	Yes	☒	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?**	☐	Yes	☐	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?**	☐	Yes	☐	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)?**	☐	Yes	☐	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?**	☐	Yes	☐	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?**	☐	Yes	☐	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.	☐	Yes	☒	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)?**	☐	Yes	☐	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 *Project Description*.	☐	Yes	☐	No
3.3	**Will the oil- or gas-related project involve the construction and operation of industrial waste treatment facilities?**	☐	Yes	☐	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 Total Disturbed Acreage** 305.39	☒	Yes	☐	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.	☒	Yes	☐	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?**	☒	Yes	☐	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?**	☒	Yes	☐	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?**	☐	Yes	☒	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?**	☒	Yes	☐	No
7.0	**Will the project involve the construction and operation of industrial waste treatment facilities?**	☐	Yes	☒	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 *Project Description*, where applicable. **8.0.1 Estimated Proposed Flow (gal/day)**	☐	Yes	☒	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?**	☐	Yes	☒	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.	☐	Yes	☒	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). **10.0.1 Gallons Per Year (residential septage)** _____ **10.0.2 Dry Tons Per Year (biosolids)**	☐	Yes	☒	No
11.0	**Does the project involve construction, modification or removal of a dam?** If "Yes", identify the dam. **11.0.1 Dam Name**	☐	Yes	☒	No

12.0	**Will the project interfere with the flow from, or otherwise impact, a dam?** If "Yes", identify the dam. **12.0.1 Dam Name**	☐	Yes	☒	No
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. **13.0.1 Enter all types & amounts of emissions; separate each set with semicolons.**	☐	Yes	☒	No
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.	☐	Yes	☒	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	☐	Yes	☐	No
	14.0.5 Sub-Fac: Water Treatment Plant	☐	Yes	☐	No
	14.0.6 Sub-Fac: Source	☐	Yes	☐	No
	14.0.7 Sub-Fac: Pump Station	☐	Yes	☐	No
	14.0.8 Sub Fac: Transmission Main	☐	Yes	☐	No
	14.0.9 Sub-Fac: Storage Facility	☐	Yes	☐	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?**	☐	Yes	☐	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. **16.0.1 Supplier's Name** _____	☐	Yes	☒	No
	16.0.2 Letter of Approval from Supplier is Attached	☐	Yes	☒	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. **17.0.1 Stream Name**	☐	Yes	☒	No
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. **18.0.1 Type & Amount**	☐	Yes	☒	No
19.0	**Will your project involve the removal of coal, minerals, etc. as part of any earth disturbance activities?**	☐	Yes	☒	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. **20.0.1 Enter all substances & capacity of each; separate each set with semicolons.**	☐	Yes	☒	No
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. **21.0.1 Enter all substances & capacity of each; separate each set with semicolons.**	☐	Yes	☒	No

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. **22.0.1 Enter all substances & capacity of each; separate each set with semicolons.**	☐	Yes	☒	No
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. **23.0.1 Enter all substances & capacity of each; separate each set with semicolons.**	☐	Yes	☒	No
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 Stephen Van Stone

Signature	Title	Date
Stephen Van Stone	Attorney-in-Fact	11/9/17

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
and
DEPARTMENT OF ARMY CORPS OF ENGINEERS
(Baltimore, Philadelphia, and Pittsburgh Districts)

JOINT APPLICATION FOR PENNSYLVANIA CHAPTER 105 WATER OBSTRUCTION AND ENCROACHMENT PERMIT AND U.S. ARMY CORPS OF ENGINEERS SECTION 404 PERMIT

Before completing this form, please read the step-by-step instructions and Section F Application Completeness Checklist provided with this Joint Permit package.

AGENCY USE ONLY

Application ID# (Assigned by DEP) _____ RECEIVED DATE _____ CHECK NO. _____

Program Application No. _____ REQUIRED APP. FEE _____ AMOUNT $_____

SECTION A. APPLICATION TYPE

STANDARD ☒ SMALL PROJECTS ☐

SECTION B. APPLICANT IDENTIFIER

Applicant Name	Employer ID# (EIN)
Shell Pipeline Company LP	52-2074528
Consulting Firm	**Employer ID# (EIN)**
AECOM Technical Services, Inc.	95-2661922

SECTION C. PROJECT LOCATION DATA AND STATUS

Name of stream and/or body of water and Chapter 93 designation.

See Table 3 in the Wetland and Watercourse Delineation Report in Requirement L.

Corps District where project will occur.

☒ Pittsburgh (Ohio River Basin) ☐ Baltimore (Susquehanna River Basin) ☐ Philadelphia (Delaware River Basin)

Name of the U.S.G.S. 7 1/2 Minute Quadrangle Map where project is located: Aliquippa, Beaver, Hookstown, Midland, and East Liverpool South

Indicate location of project: Latitude 40.643207; Longitude -80.355187

Project type, purpose and need: To construct approximately 25 miles of 12-inch and 5 miles of 16-inch ethane pipeline for the purpose of transporting raw materials (ethane) to the Pennsylvania Petrochemical Plant located in Monaca, Pennsylvania

HAS ANY PORTION OF PROPOSED PROJECT BEEN AUTHORIZED? ☐ yes ☒ no _____ date authorized

If yes, attach description of those portions of the project that have been authorized and identify dates of authorization.

SECTION D. AQUATIC RESOURCE IMPACT TABLE

HAS ALL INFORMATION INCLUDED ON THE IMPACT TABLE BEEN PROVIDED? ☒ yes ☐ no

If NO, indicate the information not included and the reason. Also attach a completed Aquatic Resource Impact Table (3150-PM-BWEW0557) worksheet or equivalent.

- Project Information: _____
- Corps / 404: _____
- DEP / 105: _____

SECTION E. COMPLIANCE REVIEW

Yes ☐ No ☒ Is the applicant (owner and/or operator) currently in violation of any permits issued by the Department? If yes, please provide:

1. Permit Number: _____
2. Nature of the violation (if any): _____
3. Status of violation (i.e., schedule for compliance, etc.): _____

SECTION F. APPLICATION COMPLETENESS CHECKLIST

Applicant must place an entry - Y = Yes, N = No, N/A = Not Applicable - in each left side column space. See Section 105.13 for additional details. If you are applying under the Small Projects Application format, place an entry in only those comments prefixed by an asterisk (*).

REQUIREMENT	Applicant Entry	DEP Use Only
a. GIF and permit application properly signed, sealed and witnessed	*Y	
b. Application Fee & Worksheet enclosed (see Section G.)	*Y	
c. Copies and proof of receipt - Act 14 notification - Acts 67/68/127	*Y	
d. Cultural Resource Notice (Notice, return receipt and PHMC review letter, as appropriate)	*Y	
e. PASPGP-5 Reporting Criteria Checklist	*Y	
f. Bog Turtle Habitat Screening (copy of “No Effect” determination from the Army Corps of Engineers OR copy of documented clearance from the US Fish and Wildlife Service)	*N/A	
g. Pennsylvania Natural Diversity Inventory (signed PNDI Receipt showing Avoidance Measures or Potential Impacts and proof of delivery to the appropriate jurisdictional agency(ies) where further coordination is required, as appropriate)	*Y	
h. Plans (site plan including cross sections and profiles for Subsections 151, 191, 231, 261)	*Y	
i. Location map	Y	
j. Project description narrative including PNDI avoidance measures (if applicable)	*Y	
AND Aquatic Resource Impact Table	*Y	
k. Color photographs with map showing location taken	*Y	
l. Environmental Assessment form	*Y	
m. Erosion and Sediment Control Plan and approval letter	Y-PLAN	
n. Hydrologic and hydraulic analysis	N/A	
o. Stormwater Management Analysis with consistency letter	N/A	
p. Floodplain Management Analysis with consistency letter	Y	
q. Risk Assessment	N/A	
r. Professional engineer’s seal and certification	Y	
s. Alternative analysis	Y	
t. Mitigation plan	Y	

SECTION G. DETERMINATION OF APPLICATION FEES (DEP FEES ONLY)

The fee required for a project authorized under this permit shall be consistent with 25 PA Code §105.13 (relating to regulated activities – information and fees). To determine the application fee, please complete the Chapter 105 Fee(s) Calculation Worksheet (3150-PM-BWEW0553). Please provide the completed worksheet and a check for the applicable fee(s) made payable to the "Commonwealth of Pennsylvania Clean Water Fund."

SECTION H. ADJOINING PROPERTY OWNERS

Please list the name and address of all property owners whose land adjoins the project property.

NAME	ADDRESS
Please see attached table	

SECTION I. CERTIFICATION AND SIGNATURE (see Instructions for clarification of signature requirements)

I certify under penalty of law that the information provided in this permit registration is true and correct to the best of my knowledge and information and that I possess the authority to undertake the proposed action. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (If any of the information and/or plans is found to be in error, falsified, and/or incomplete, this authorization/verification may be subject to modification, suspension, or revocation in accordance with applicable regulations.)

I certify that the project proposed in this application complies with and will be conducted in a manner that is consistent with the approved Coastal Zone Management program of the Commonwealth of Pennsylvania. (Only portions of Erie, Bucks, Philadelphia and Delaware Counties are in the Coastal Zone).

I grant permission to the agencies responsible for authorization of this work, or their duly authorized representative, to enter the project site for inspection purposes during working hours. I will abide by the conditions of the permit or license if issued and will not begin work without the appropriate authorization.

Stephen Van Stone — Signature of Applicant/Owner

11/9/17 — Date

Stephen Van Stone, Attorney-in-Fact

Typed / Printed Name & Title of Applicant/Owner

11-9-17

Signature of Witness

SEAL

Robert B. Wooten Senior Staff Land Agent

Typed / Printed Name & Title of Witness

POWER OF ATTORNEY

SHELL PIPELINE COMPANY LP ("Shell Pipeline"), a Delaware limited partnership with offices at 777 Walker Street, Houston, Texas 77002, hereby appoints and authorizes **Stephen Van Stone** as its Attorney-in-Fact to execute and deliver instruments and documents, including but not limited to the following, on behalf of and in the name of Shell Pipeline in the usual course of its business:

(1) easements and licenses, whether Shell Pipeline is grantor or grantee, and amendments, assignments, and releases of such easements;

(2) contracts for the purchase, sale or exchange of real or personal property, including land, improvements, easements, surface leases, and other interests or rights in real or personal property;

(3) deeds or other conveyances of real property, whether Shell Pipeline is grantor or grantee;

(4) bills of sale or other transfers of personal property, whether Shell Pipeline is the seller or purchaser;

(5) licenses, permits, franchises, and railroad and highway crossing agreements in which Shell Pipeline is a party;

(6) subordination agreements;

(7) bonds, certificates of insurance, and indemnities, and amendments and releases thereof;

(8) surface leases and leases of office, warehouse, and storage space, including subleases thereof, whether Shell Pipeline is lessor or sublessor, or lessee or sublessee;

(9) applications required by governmental authorities or agencies for easements, leases, permits, or other rights in land owned or administered by such governmental authorities or agencies;

(10) applications and reports required by governmental authorities for the issuance, maintenance and renewal of permits and permissions pursuant to laws and regulations relating to protection of the environment;

(11) leases of personal property, including subleases thereof, whether Shell Pipeline is lessor or sublessor, or lessee or sublessee;

(12) leases of communications equipment, including subleases thereof, whether Shell Pipeline is lessor or sublessor, or lessee or sublessee; and

(13) contracts and agreements with governmental agencies and authorities and with private parties for the relocation, adjustment, or removal of pipelines, other pipeline facilities, or other properties of Shell Pipeline.

This Power of Attorney shall be in effect as of November 1, 2010, and thereafter shall continue in force and effect until revoked in writing.

IN WITNESS WHEREOF, Shell Pipeline Company LP has caused this Power of Attorney to be signed by its Vice President – Tax, sealed with its corporate seal, and attested by its Secretary.

ATTEST

Lynn S. Borgmeier

By: Lynn S. Borgmeier
Its: Secretary

SHELL PIPELINE COMPANY LP

Paul Romanick

By: Paul Romanick
Its: Vice President - Tax
Date Executed: 10-28-10

WITNESSES:

Linda L. Meagher

ACKNOWLEDGEMENT

STATE OF TEXAS §
§
COUNTY OF HARRIS §

This instrument was acknowledged before me on this 28th day of October, 2010 by Paul Romanick, Vice President – Tax of Shell Pipeline Company LP, a Delaware limited partnership, on behalf of said company.

Toni M. Wycoff
Notary Public

TONI M. WYCOFF
Notary Public
STATE OF TEXAS
My Comm. Exp. April 21, 2013

Shell Falcon Abutters - Beaver County

County	Parcel ID	Landowner Name	Address	City	State	Zip
Beaver	31-001-0300.000	MCELHANEY,RICHARD C &	MILL STREET	Hookstown	PA	15050
Beaver	31-001-0309.000	WALL,WILLIAM G JR &	105 PITTSBURGH ROAD	Hookstown	PA	15050
Beaver	31-001-0400.000	MALLINDER,DANIEL S &	PITTSBURGH ROAD	Hookstown	PA	15050
Beaver	31-001-0401.000	MALLINDER,DANIEL S &	PITTSBURGH ROAD	Hookstown	PA	15050
Beaver	50-004-0100.000	FIRSTENERGY NUCLEAR	228 ROUTE 3016	Aliquippa	PA	15001
Beaver	50-005-0103.000	LANEY,WILLIAM E JR	STARR LANE	Aliquippa	PA	15001
Beaver	50-005-0105.000	STARR,GERTRUDE ALVA	101 STARR LANE	Aliquippa	PA	15001
Beaver	50-005-0105.998	STARR,WYNN	102 STARR LANE	Aliquippa	PA	15001
Beaver	50-181-0148.000	PENNSYLVANIA POWER COMPANY	T-362 REAR	Aliquippa	PA	15108
Beaver	50-181-0148.001	COURTNEY,JACK S & NANCY A	GREEN HILL ROAD	Aliquippa	PA	15108
Beaver	50-181-0149.000	CAIN,DANIEL C & NORMAN E	240 BIRD HILL ROAD	Aliquippa	PA	15108
Beaver	50-181-0150.000	DAVIE,LOIS N,TRUSTEE	BIRD HILL ROAD	Aliquippa	PA	15108
Beaver	50-182-0100.000	LEPORT,MICHAEL T	105 SHIPPINGPORT HILL RD	Aliquippa	PA	15108
Beaver	50-182-0108.000	BOROUGH OF SHIPPINGPORT	EWING HILL ROAD	Aliquippa	PA	15108
Beaver	56-173-0162.000	DUQUESNE LIGHT COMPANY	LR-04068 OFF	Aliquippa	PA	15108
Beaver	56-183-0160.000	CHIRGOTT,STEVE & ARTEMIS	BUNKER HILL ROAD	Aliquippa	PA	15108
Beaver	56-183-0197.000	WITTERMAN,MICHAEL J	MOFFETT RUN ROAD	Aliquippa	PA	15108
Beaver	62-003-0100.000	MAY,MICHELLE	1187 STATE ROUTE 168	Hookstown	PA	15050
Beaver	62-003-0101.000	ELLIOTT,MYRON LEE &	1191 STATE ROUTE 168	Hookstown	PA	15050
Beaver	62-003-0102.000	ELLIOTT,MYRON LEE &	1191 STATE ROUTE 168	Hookstown	PA	15050
Beaver	62-003-0103.001	PITTSBURGH SMSA,LP	PITTSBURGH GRADE ROAD	Hookstown	PA	15050
Beaver	62-003-0105.000	REMOND,TIMOTHY P	143 SILVER SLIPPER ROAD	Hookstown	PA	15050
Beaver	62-003-0106.000	GRAHAM,CHARLES A &	184 PITTSBURGH GRADE RO	Hookstown	PA	15050
Beaver	62-003-0107.000	CALER,MARLENE L & JON L	PITTSBURGH GRADE ROAD	Hookstown	PA	15050
Beaver	62-003-0108.000	HENRY,ROBERT J & MARY LOU	204 PITTSBURGH GRADE RO	Hookstown	PA	15050
Beaver	62-003-0109.000	REED,WILLIAM T	210 PITTSBURGH GRADE RO	Hookstown	PA	15050
Beaver	62-003-0110.000	BASINGER,DANIEL R &	232 PITTSBURGH GRADE RO	Hookstown	PA	15050
Beaver	62-003-0110.001	PYERITZ,KENNETH P &	226 PITTSBURGH GRADE RO	Hookstown	PA	15050
Beaver	62-003-0111.001	DEMOR,DAVID	246 PITTSBURGH GRADE	Hookstown	PA	15050
Beaver	62-003-0111.002	MCGAFFIC,NANCY JEAN	244 PITTSBURGH GRADE RO	Hookstown	PA	15050
Beaver	62-003-0112.000	WARNOCK,WILLIAM H &	274 PITTSBURGH GRADE RO	Hookstown	PA	15050
Beaver	62-003-0113.000	MAXWELL,DANIEL L &	286 PITTSBURGH GRADE RO	Hookstown	PA	15050

Shell Falcon Abutters - Beaver County

County	Parcel ID	Landowner Name	Address	City	State	Zip
Beaver	62-003-0113.001	VERNACCINI,KRISTY D	284 PITTSBURGH GRADE RD	Hookstown	PA	15050
Beaver	62-003-0113.002	HANKEY,CHRISTOPHER M	PITTSBURGH GRADE RD	Hookstown	PA	15050
Beaver	62-181-0134.000	COX,DORIS & DONALD P	SHAFFER ROAD	Hookstown	PA	15050
Beaver	62-190-0105.000	FIRSTENERGY GENERATION	3292 STATE ROUTE 30	Georgetown	PA	15043
Beaver	62-190-0106.000	RONOSKY,PAUL K & SUE E	3189 STATE ROUTE 30	Georgetown	PA	15043
Beaver	62-190-0111.001	CAIN,SARAH E	3279 STATE ROUTE 30	Georgetown	PA	15043
Beaver	62-190-0111.002	HENDERSON,MICHELE	3199 STATE ROUTE 30	Georgetown	PA	15043
Beaver	62-190-0111.003	MCLAUGHLIN,WESLEY L &	T-312	Georgetown	PA	15043
Beaver	62-190-0112.000	MCLAUGHLIN,WESLEY A &	638 RED DOG ROAD EXT	Georgetown	PA	15043
Beaver	62-190-0113.000	PEEL,MARK & TINA	672 RED DOG ROAD EXT	Georgetown	PA	15043
Beaver	62-190-0113.001	MCCLINCY,EVERETT W	660 STATE ROUTE 30	Georgetown	PA	15043
Beaver	62-190-0115.001	THOMAS,JEROME E & AMY K	3131 STATE ROUTE 30	Georgetown	PA	15043
Beaver	62-190-0115.002	CONKLE,BRUCE	3133 STATE ROUTE 30 OFF	Georgetown	PA	15043
Beaver	62-190-0115.004	CONKLE,ROY H & DELORES M	3135 STATE ROUTE 30	Georgetown	PA	15043
Beaver	62-190-0121.000	SOISSON,BRADLEY	333 335 RED DOG ROAD	Georgetown	PA	15043
Beaver	62-190-0122.000	SOISSON,BRADLEY	STATE ROUTE 30	Georgetown	PA	15043
Beaver	62-190-0124.000	SOISSON,KENNETH E	STATE ROUTE 30	Georgetown	PA	15043
Beaver	62-190-0124.001	CRADY,BRADLEY & STEPHANIE	3085 STATE ROUTE 30	Georgetown	PA	15043
Beaver	62-190-0124.003	SOISSON,THEODORE H &	3042 STATE ROUTE 30	Georgetown	PA	15043
Beaver	62-190-0124.006	SOISSON,BRADLEY	RED DOG ROAD(OFF)	Georgetown	PA	15043
Beaver	62-190-0126.001	YEKEL,KELLY M	3010 STATE ROUTE 30	Georgetown	PA	15043
Beaver	62-190-0126.002	SKIDMORE,JOHN D JR &	3004 STATE ROUTE 30	Georgetown	PA	15043
Beaver	62-190-0126.004	JOHNSTON,RONNIE L &	2992 STATE ROUTE 30	Georgetown	PA	15043
Beaver	62-190-0126.011	JAWOROWSKI,JEFFREY A &	2960 STATE ROUTE 30	Georgetown	PA	15043
Beaver	62-190-0126.012	JOHNSON,DELANO R	STATE ROUTE 30	Georgetown	PA	15043
Beaver	62-190-0130.002	BREWER,AUDREY J &	STATE ROUTE 30	Georgetown	PA	15043
Beaver	62-190-0132.006	NOVAK,JOSEPH J JR &	146 FRANCIS DRIVE	Georgetown	PA	15043
Beaver	62-190-0132.008	DARNLEY,THOMAS L &	111 FRANCIS DRIVE	Georgetown	PA	15043
Beaver	62-190-0132.015	KAMPMEYER,RAYMOND E &	147 FRANCIS DRIVE	Georgetown	PA	15043
Beaver	62-191-0130.007	SHANNON,DANIEL O &	1168 STATE ROUTE 168	Hookstown	PA	15050
Beaver	62-191-0130.008	SHANNON,DANIEL O &	RED DOG ROAD (OFF)	Hookstown	PA	15050
Beaver	62-191-0132.000	WINTERROWD,LARRY DALE &	1127 STATE ROUTE 168	Hookstown	PA	15050

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County	Parcel ID	Landowner Name	Address	City	State	Zip
Beaver	62-191-0134.000	NARRY,HOWARD CARLTON &	1160 STATE ROUTE 168	Hookstown	PA	15050
Beaver	62-191-0135.000	SEARIGHT,WAYNE A & EARLENE	1186 STATE ROUTE 168	Hookstown	PA	15050
Beaver	62-191-0138.000	HOOKSTOWN GRANGE #1980	STATE ROUTE 168	Hookstown	PA	15050
Beaver	62-191-0168.001	JANKE,CARL A & MARY A	149 SILVER SLIPPER ROAD	Hookstown	PA	15050
Beaver	62-191-0168.002	CUNNINGHAM,ADRIAN V &	167 SILVER SLIPPER ROAD	Hookstown	PA	15050
Beaver	62-191-0172.004	PITTAVINO,BENTLEY B	310 PITTSBURGH GRADE RO	Hookstown	PA	15050
Beaver	62-191-0174.000	HICKS,GARY L & RHONDA M	221 PITTSBURGH GRADE RO	Hookstown	PA	15050
Beaver	62-191-0175.002	MCELHANEY,DAVID C	185 PITTSBURGH GRADE RO	Hookstown	PA	15050
Beaver	62-191-0175.003	MALLINDER,DANIEL S & JOY	166 PITTSBURGH GRADE RO	Hookstown	PA	15050
Beaver	62-191-0175.004	HARTMAN,PAUL J & KAREN L	152 PITTSBURGH GRADE RO	Hookstown	PA	15050
Beaver	62-191-0179.000	PONTIS,EDWARD J & MARLENE	1001 STATE ROUTE 168	Hookstown	PA	15050
Beaver	62-191-0191.001	LAUGHLIN,JAMES B & DONNA J	821 STATE ROUTE 168	Hookstown	PA	15050
Beaver	62-191-0191.003	KIPIN INDUSTRIES,INC	STATE ROUTE 168	Hookstown	PA	15050
Beaver	62-191-0191.007	LAUGHLIN,JAMES B & DONNA J	STATE ROUTE 168	Hookstown	PA	15050
Beaver	62-191-0191.009	LAUGHLIN,WILLIAM A JR	966 MCCLEARY ROAD OFF	Hookstown	PA	15050
Beaver	62-191-0191.010	LAUGHLIN,JAMES B & DONNA J	966 MCCLEARY ROAD OFF	Hookstown	PA	15050
Beaver	62-191-0191.011	LAUGHLIN,WILLIAM A JR	966 MCCLEARY ROAD OFF	Hookstown	PA	15050
Beaver	62-191-0191.012	BUTLER,JEFFREY T & JOYCE I	964 MCCLEARY ROAD	Hookstown	PA	15050
Beaver	62-191-0191.013	LAUGHLIN,WILLIAM A JR	MCCLEARY ROAD OFF	Hookstown	PA	15050
Beaver	62-191-0194.000	SEARIGHT,JAMES E &	948 MCCLEARY ROAD	Hookstown	PA	15050
Beaver	62-191-0194.001	MIXTER,SAMUEL ALLEN	987 MCCLEARY ROAD	Hookstown	PA	15050
Beaver	62-191-0194.002	SEARIGHT,WALTER L	894 MCCLEARY ROAD	Hookstown	PA	15050
Beaver	62-191-0195.000	MERCER,WILLIAM J	MCCLEARY ROAD	Hookstown	PA	15050
Beaver	62-191-0212.000	MERCER,JOHN W	177 MCCLEARY ROAD	Hookstown	PA	15050
Beaver	62-191-0215.000	SHORT,DONALD RALPH &	660 MCCLEARY ROAD	Hookstown	PA	15050
Beaver	62-191-0215.001	SHORT,RONALD	658 MCCLEARY ROAD	Hookstown	PA	15050
Beaver	62-191-0215.998	SHORT,ROBERT R &	664 MCCLEARY ROAD	Hookstown	PA	15050
Beaver	62-191-0216.000	BOBCHAK,DARRELL E &	496 SHAFFER ROAD	Hookstown	PA	15050
Beaver	62-191-0217.000	SHAFFER,MICHAEL J & EDWARD	SHAFFER ROAD	Hookstown	PA	15050
Beaver	62-191-0219.001	ASHCROFT,RICHARD J &	282 SHAFFER ROAD	Hookstown	PA	15050
Beaver	62-191-0220.000	ASHCROFT,RICHARD J &	308 SHAFFER ROAD	Hookstown	PA	15050
Beaver	62-191-0220.002	ASHCROFT,JAMES R &	SHAFFER ROAD	Hookstown	PA	15050

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County	Parcel ID	Landowner Name	Address	City	State	Zip
Beaver	62-191-0235.003	PENNSYLVANIA POWER COMPANY	MCCLEARY ROAD (OFF)	Hookstown	PA	15050
Beaver	62-191-0242.000	PENNSYLVANIA POWER COMPANY	RD#1	Hookstown	PA	15050
Beaver	62-191-0243.001	COURTNEY,JACK S &	POLE CAT HOLLOW ROAD	Hookstown	PA	15050
Beaver	62-191-0244.000	PENNSYLVANIA POWER COMPANY	RD#1	Hookstown	PA	15050
Beaver	62-191-0245.000	LAUREL VENTURES	KENNEDY ROAD	Hookstown	PA	15050
Beaver	62-191-0246.000	LOKOMSKI,NICHOLAS J &	KENNEDY ROAD	Hookstown	PA	15050
Beaver	62-191-0246.001	LOKOMSKI,MICHAEL A &	KENNEDY ROAD	Hookstown	PA	15050
Beaver	62-191-0247.000	CLEVELAND ELEC ILL CO	KENNEDY ROAD	Hookstown	PA	15050
Beaver	62-191-0248.000	CIMBA,MICHAEL JR	KENNEDY ROAD	Hookstown	PA	15050
Beaver	62-191-0300.000	KIPIN INDUSTRIES,INC	ROUTE 168	Hookstown	PA	15050
Beaver	62-200-0100.000	SHYCHUCK,WILLIAM B	390 LONG RUN ROAD	Georgetown	PA	15043
Beaver	62-200-0101.000	SHYCHUCK,WILLIAM B &	246 LONG ROAD	Georgetown	PA	15043
Beaver	66-193-0163.000	PARRISH,BRUCE W JR	750 DAVIS ROAD	Aliquippa	PA	15108
Beaver	66-193-0165.001	MOLINARO,ANTHONY E &	DAVIS ROAD	Aliquippa	PA	15108
Beaver	66-193-0165.002	MOLINARO,ANTHONY E &	709 DAVIS ROAD	Aliquippa	PA	15108
Beaver	66-193-0165.003	MOLINARO,ANTHONY E &	DAVIS ROAD	Aliquippa	PA	15108
Beaver	66-193-0165.004	MOLINARO,ANTHONY E &	DAVIS ROAD	Aliquippa	PA	15108
Beaver	66-193-0165.005	MOLINARO,ANTHONY E &	DAVIS ROAD	Aliquippa	PA	15108
Beaver	66-193-0165.006	MOLINARO,ANTHONY E &	DAVIS ROAD	Aliquippa	PA	15108
Beaver	66-193-0166.000	ADAMS,CHARLES S & HELENE	SERVICE CREEK ROAD	Aliquippa	PA	15108
Beaver	66-193-0175.000	REED,EDWARD R & IVY L	302 SERVICE CREEK ROAD	Aliquippa	PA	15108
Beaver	66-193-0184.000	JAMES,TIRZAH M	356 SERVICE CREEK ROAD	Aliquippa	PA	15108
Beaver	66-193-0185.000	STRINGER,CHARLES M	342 SERVICE CREEK ROAD	Aliquippa	PA	15108
Beaver	66-193-0186.001	STRINGER,CHARLES M	SERVICE CREEK ROAD	Aliquippa	PA	15108
Beaver	66-193-0188.000	DEWOEHREL,SCOTT	DAVIS ROAD	Aliquippa	PA	15108
Beaver	66-193-0188.001	DEWOEHREL,SCOTT	799 A DAVIS ROAD	Aliquippa	PA	15108
Beaver	66-193-0193.000	GEORGE,DAVID W & BARBARA	514 SERVICE CREEK ROAD	Aliquippa	PA	15108
Beaver	66-193-0195.001	LEGNINE,STEVEN M &	477 SERVICE CREEK ROAD	Aliquippa	PA	15108
Beaver	66-193-0197.000	FEDEROFF,LARRY GEORGE &	SERVICE CREEK ROAD	Aliquippa	PA	15108
Beaver	66-193-0200.000	AQUINO,MICHAEL CARL &	480 SERVICE CREEK ROAD	Aliquippa	PA	15108
Beaver	66-193-0201.003	MCNAMARA,MARTHA E	470 C SERVICE CREEK ROAD	Aliquippa	PA	15108
Beaver	66-193-0208.002	TARZIA,DOMINIC J &	PARRISH ROAD	Aliquippa	PA	15108

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County	Parcel ID	Landowner Name	Address	City	State	Zip
Beaver	66-193-0214.002	SALINSHICK,PAUL &	121 PARRISH ROAD	Aliquippa	PA	15108
Beaver	66-203-0211.000	MERGES,GREGORY G	COW PATH ROAD	Aliquippa	PA	15108
Beaver	66-203-0235.003	HAMARA,JOHN A & FLORA	RIDGE ROAD	Aliquippa	PA	15108
Beaver	66-203-0235.004	BOUSTEAD,PAUL & BOBBIE	3325 RIDGE ROAD	Aliquippa	PA	15108
Beaver	66-203-0235.005	BRUNTON,MATTHEW D &	RIDGE ROAD	Aliquippa	PA	15108
Beaver	66-203-0237.001	NEWSOM,RONALD K & ENA M	3380 B RIDGE ROAD	Aliquippa	PA	15108
Beaver	66-203-0237.005	SOWASH,ROBERT E	RIDGE ROAD	Aliquippa	PA	15108
Beaver	66-203-0237.013	HENDRICKSON,RICHARD &	RIDGE ROAD	Aliquippa	PA	15108
Beaver	66-203-0237.014	RICHARDS,ERNEST L &	COW PATH ROAD	Aliquippa	PA	15108
Beaver	66-203-0237.015	BRUNTON,WILLIAM F &	146 MCCUNE ROAD	Aliquippa	PA	15108
Beaver	66-203-0237.017	HENDRICKSON,RICHARD &	RIDGE ROAD	Aliquippa	PA	15108
Beaver	66-203-0237.019	HEPAK,NICHOLAS R	301 D COW PATH ROAD	Aliquippa	PA	15108
Beaver	66-203-0238.000	MCLAUGHLIN,DANIEL V &	384 COW PATH ROAD	Aliquippa	PA	15108
Beaver	66-203-0239.000	INGRAM,STEPHEN F & DAWN M	COW PATH ROAD	Aliquippa	PA	15108
Beaver	66-203-0239.004	FERRENCE,THOMAS F &	COW PATH ROAD	Aliquippa	PA	15108
Beaver	66-203-0239.005	PRICE, DAVID JAMES &	COW PATH ROAD	Aliquippa	PA	15108
Beaver	66-203-0242.002	MELKO,MICHAEL J	272 A TANK FARM ROAD	Aliquippa	PA	15108
Beaver	66-203-0242.003	MELKO,MICHAEL & CHARLENE	272 B TANK FARM ROAD	Aliquippa	PA	15108
Beaver	66-203-0243.000	BAUMGARDNER,SHAWN A	TANK FARM ROAD	Aliquippa	PA	15108
Beaver	66-203-0243.001	PAOLINI,RICHARD & RENEE R	327 TANK FARM ROAD	Aliquippa	PA	15108
Beaver	66-203-0243.002	MAYER,ROLAND	TANK FARM ROAD	Aliquippa	PA	15108
Beaver	66-203-0243.008	NEUGEBAUER,JAMES G &	324 TANK FARM ROAD	Aliquippa	PA	15108
Beaver	66-203-0243.009	LONG,GARY	306 TANK FARM ROAD	Aliquippa	PA	15108
Beaver	66-203-0243.010	MAYER,ROLAND N &	TANK FARM ROAD	Aliquippa	PA	15108
Beaver	66-203-0243.011	BUMGARDNER,MICHAEL LYNN &	382 TANK FARM ROAD	Aliquippa	PA	15108
Beaver	66-203-0245.000	ETC NORTHEAST PIPELINE LLC	T-518	Aliquippa	PA	15108
Beaver	66-203-0252.000	SNEDDEN,RICHARD A & JANE E	RIDGE ROAD	Aliquippa	PA	15108
Beaver	66-203-0252.001	MCKENNA,HAROLD & NANCY	3421 RIDGE ROAD	Aliquippa	PA	15108
Beaver	66-203-0252.002	D'AMICO,DIANE C	RIDGE ROAD	Aliquippa	PA	15108
Beaver	66-203-0253.006	SCHIBNER,RONALD JAMES JR &	3457 B RIDGE ROAD	Aliquippa	PA	15108
Beaver	66-203-0262.000	LONCAR,PETER & MARY BETH	900 CLEARVIEW ROAD	Aliquippa	PA	15108
Beaver	66-203-0263.000	BROWN,CARL J & BRUCE A	725 SERVICE CREEK RD	Aliquippa	PA	15108

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Beaver	66-203-0264.001	REBEL ETON,LP	SERVICE CREEK ROAD	Aliquippa	PA	15108
Beaver	66-203-0264.002	MORRISON,KENNETH R &	553 SERVICE CREEK ROAD	Aliquippa	PA	15108
Beaver	66-203-0264.976	HENDERSON,JOSHUA C	13 MORRISON MANOR	Aliquippa	PA	15108
Beaver	66-203-0264.977	ADAMS,KAREN	553 SERVICE CREEK ROAD	Aliquippa	PA	15108
Beaver	66-203-0264.978	ROSATI,LINDA	19 MORRISON MANOR	Aliquippa	PA	15108
Beaver	66-203-0264.979	MORRISON,CHRISTINE	15 MORRISON MANOR	Aliquippa	PA	15108
Beaver	66-203-0264.981	MORRISON,CHRISTINE A	17 MORRISON MANOR	Aliquippa	PA	15108
Beaver	66-203-0264.985	MORRISON,CHRISTINE	4 MORRISON MANOR	Aliquippa	PA	15108
Beaver	66-203-0264.988	MORRISON,CHRISTINE	11 MORRISON MANOR	Aliquippa	PA	15108
Beaver	66-203-0264.991	SNYDER,JOHN	7 MORRISON MANOR	Aliquippa	PA	15108
Beaver	66-203-0264.992	MORRISON,CHRISTINE	8 MORRISON MANOR	Aliquippa	PA	15108
Beaver	66-203-0264.993	ROSATI,LINDA	6 MORRISON MANOR	Aliquippa	PA	15108
Beaver	66-203-0264.994	MACLAUGHLIN,LARRINE	2 MORRISON MANOR	Aliquippa	PA	15108
Beaver	66-203-0264.996	MORRISON,CHRISTINE	3 MORRISON MANOR	Aliquippa	PA	15108
Beaver	66-203-0264.997	MORRISON,CHRISTINE	12 MORRISON MANOR	Aliquippa	PA	15108
Beaver	66-203-0264.998	MORRISON,CHRISTINE	5 MORRISON MANOR	Aliquippa	PA	15108
Beaver	66-213-0155.000	SHAFFER,TIMOTHY & DEBRA J	STATE ROUTE 151	Aliquippa	PA	15108
Beaver	66-213-0161.000	SHADEL,KIRK M &	3407 ROUTE 151	Aliquippa	PA	15108
Beaver	66-213-0162.002	ZEIDLER,JOHN F & CAROL A	3411 STATE ROUTE 151	Aliquippa	PA	15108
Beaver	66-213-0162.003	KAVIC,ALEXANDER J	3427 STATE ROUTE 151	Aliquippa	PA	15108
Beaver	66-213-0162.006	KAVIC,TIMOTHY & KAREN	162 KAVIC LN	Aliquippa	PA	15108
Beaver	66-213-0163.000	ANDERSON,SHADLEY B &	3265 RIDGE ROAD	Aliquippa	PA	15108
Beaver	66-213-0164.000	BUTLER,JAMES T & MARY ANN	122 COW PATH ROAD	Aliquippa	PA	15108
Beaver	66-213-0166.000	YOUNG,ROSS R	117 COW PATH ROAD	Aliquippa	PA	15108
Beaver	66-213-0167.000	PORTER,JOHN R & KAREN E	COW PATH ROAD	Aliquippa	PA	15108
Beaver	66-213-0170.031	MCCREARY,DELORES D	LR-04075 (OFF)	Aliquippa	PA	15108
Beaver	66-213-0191.010	MILLER,ALAN R & STEPHANIE	386 BOCKTOWN CORK ROA	Aliquippa	PA	15108
Beaver	66-213-0191.012	MINTON,LISA	BOCKTOWN CORK ROAD	Aliquippa	PA	15108
Beaver	66-213-0192.000	MINTON,WILLIAM R & ABIGAIL	BOCKTOWN CORK ROAD	Aliquippa	PA	15108
Beaver	66-213-0192.001	DUQUESNE LIGHT COMPANY	RD#1	Aliquippa	PA	15108
Beaver	66-213-0192.003	MINTON,BRET A & JULIA A	303 BOCKTOWN CORK ROA	Aliquippa	PA	15108
Beaver	66-213-0193.002	TOWERCO ASSETS LLC	BOCKTOWN-CORK ROAD	Aliquippa	PA	15108

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Beaver	66-213-0194.000	MOORE,DALE & ROCHELLE	208 BOCKTOWN CORK ROA	Aliquippa	PA	15108
Beaver	66-213-0195.000	BRADFORD,JENNINGS A &	173 BOCKTOWN CORK RD	Aliquippa	PA	15108
Beaver	66-213-0198.000	OROS,ANDREW T & MARY ELLEN	RD#1 BOX 143	Aliquippa	PA	15108
Beaver	66-213-0201.000	POTTS,VICTOR D & WAYNE R	POTTS HOLLOW ROAD	Aliquippa	PA	15108
Beaver	66-213-0201.001	POTTS,WAYNE R & ROBIN	248 POTTS HOLLOW ROAD	Aliquippa	PA	15108
Beaver	66-213-0213.007	MCCONNELL'S HILL FARM,INC	POTTS HOLLOW ROAD	Aliquippa	PA	15108
Beaver	66-223-0100.000	L&S PARTNERS LP	HOLLOW ROAD	Clinton	PA	15026
Beaver	66-223-0101.000	BROWN,DAVID E & MILLIE L	1523 EAST HOOKSTOWN GR	Clinton	PA	15026
Beaver	66-223-0102.001	JODIKINOS,ROBERT	487 BOCKTOWN CORK ROA	Clinton	PA	15026
Beaver	66-223-0102.002	JODIKINOS,ANDREW J JR &	473 BOCKTOWN CORK ROA	Clinton	PA	15026
Beaver	66-223-0102.003	VERMEULEN,ANDREA & HERMAN	465 BOCKTOWN CORK ROA	Clinton	PA	15026
Beaver	66-223-0102.004	KEPPEL,RENE A & JAMES	467 BOCKTOWN CORK ROA	Clinton	PA	15026
Beaver	66-223-0107.001	HEPAK,CAROLINE	564 BOCKTOWN CORK ROA	Clinton	PA	15026
Beaver	66-223-0107.002	MILLER,DUANE & KELLY DAWN	BOCKTOWN CORK ROAD	Clinton	PA	15026
Beaver	66-223-0108.000	MILLER,DUANE	BOCKTOWN CORK ROAD	Clinton	PA	15026
Beaver	66-223-0108.001	MILLER,DUANE	BOCKTOWN CORK ROAD	Clinton	PA	15026
Beaver	66-223-0108.003	MARTIN,JOSEPH D & AMY J	624 BOCKTOWN CORK ROA	Clinton	PA	15026
Beaver	66-223-0110.000	CLEIS,GARY L & ANNA MARIE	641 BOCKTOWN CORK ROA	Clinton	PA	15026
Beaver	66-223-0110.001	BARANOWSKY,CRAIG & CAROL A	647 BOCKTOWN CORK ROA	Clinton	PA	15026
Beaver	66-223-0111.000	CRAIG,JASON C	654 B BOCKTOWN CORK RO	Clinton	PA	15026
Beaver	66-223-0113.001	RAKOCZY,JAMES A & DONNA M	651 BOCKTOWN CORK ROA	Clinton	PA	15026
Beaver	66-223-0114.000	LITTERAL,MARK R &	683 BOCKTOWN CORK ROA	Clinton	PA	15026
Beaver	66-223-0114.001	SYMOSKO,KIRK & AGNES MARIE	683 B BOCKTOWN CORK RO	Clinton	PA	15026
Beaver	66-223-0115.000	TENEROVICH,FRANK J &	810 BOX 682 OFF SR 3025	Clinton	PA	15026
Beaver	66-223-0117.000	CORAOPOLIS BEAGLE CLUB	BOCKTOWN CORK ROAD	Clinton	PA	15026
Beaver	66-223-0118.000	UBREY,WILLIAM R	766 BOCKTOWN CORK ROA	Clinton	PA	15026
Beaver	66-223-0119.000	RUDOWSKI,RICHARD M	797 BOCKTOWN CORK ROA	Clinton	PA	15026
Beaver	66-223-0119.001	MELVIN,RICHARD A	795 A BOCKTOWN CORK RO	Clinton	PA	15026
Beaver	66-223-0120.000	SEIBEL,DOUGLAS M & LYNN A	814 BOCKTOWN CORK ROA	Clinton	PA	15026
Beaver	66-223-0125.000	KUNKLE,JOHN H JR	138 BACKBONE ROAD	Clinton	PA	15026
Beaver	73-001-0204.000	KLINGENSMITH,ERIC L	320 RACCOON CREEK ROAD	Monaca	PA	15061
Beaver	73-001-0206.000	BENTZ,RONALD P	302 RACCOON CREEK ROAD	Monaca	PA	15061

Shell Falcon Abutters - Beaver County

County	Parcel ID	Landowner Name	Address	City	State	Zip
Beaver	73-001-0207.000	HATT,GLENN R JR	411 MOWRY ROAD	Monaca	PA	15061
Beaver	73-001-0212.000	WINKLE,WILLIAM E & LINDA L	MOWRY ROAD	Monaca	PA	15061
Beaver	73-001-0212.001	HATT,GLENN R JR	407 MOWRY ROAD	Monaca	PA	15061
Beaver	73-001-0212.004	WINKLE,WILLIAM E & LINDA L	409 MOWRY ROAD	Monaca	PA	15061
Beaver	73-001-0212.011	MCCANDLESS,SAMUEL N &	393 MOWRY ROAD	Monaca	PA	15061
Beaver	73-001-0212.014	MCCANDLESS,SAMUEL N &	MOWRY ROAD	Monaca	PA	15061
Beaver	73-001-0212.015	WINKLE,WILLIAM E & LINDA L	MOWRY ROAD	Monaca	PA	15061
Beaver	73-001-0212.018	MARKSTEINER,JOSEPH A JR	MOWRY ROAD	Monaca	PA	15061
Beaver	73-163-0200.000	SHELL CHEMICAL APPALACHIA	300 FRANKFORT ROAD	Monaca	PA	15061
Beaver	73-172-0199.005	NOVA CHEMICALS,INC	400 FRANKFORT ROAD RTE	Monaca	PA	15061
Beaver	73-172-0201.000	SHELL CHEMICAL APPALACHIA	STATE ROUTE 18	Monaca	PA	15061
Beaver	73-172-0203.000	SHELL CHEMICAL APPALACHIA	RACCOON CREEK ROAD	Monaca	PA	15061
Beaver	73-172-0203.003	HORSEHEAD CORP	STATE ROUTE 18	Monaca	PA	15061
Beaver	73-172-0203.004	SHELL CHEMICAL APPALACHIA	LR 04101	Monaca	PA	15061
Beaver	73-172-0213.000	SHELL CHEMICAL APPALACHIA	MOWRY ROAD	Monaca	PA	15061
Beaver	73-172-0213.008	RETTOP DEVELOPMENT CORP	MOWRY ROAD	Monaca	PA	15061
Beaver	73-172-0214.001	MARTIN,PATRICIA A &	300 RACCOON CREEK ROAD	Monaca	PA	15061
Beaver	73-172-0214.004	MILLER,LINLEY CLARENCE JR&	MOWRY ROAD	Monaca	PA	15061
Beaver	73-172-0215.000	CAMPBELL,DONALD W &	320 MOWRY ROAD	Monaca	PA	15061
Beaver	73-173-0260.000	FLOYD,PHILIP D & REBECCA B	PLEASANT DRIVE	Monaca	PA	15061
Beaver	73-173-0400.000	POTTER TOWNSHIP	RACCOON CREEK ROAD	Monaca	PA	15061
Beaver	75-001-0100.001	KEARNS,DONALD & JUDITH	125 WINFORD LANE	Aliquippa	PA	15001
Beaver	75-001-0100.002	RACCOON TOWNSHIP	STATE ROUTE 18	Aliquippa	PA	15001
Beaver	75-001-0100.003	HYSONG,RALPH H & RUTH ANN	901 STATE ROUTE 18	Aliquippa	PA	15001
Beaver	75-001-0411.000	PAFF,GREGORY N & COLLEEN M	4286 GREEN GARDEN ROAD	Aliquippa	PA	15001
Beaver	75-003-0100.000	CAPITAL ONE,NA	3828 GREEN GARDEN ROAD	Aliquippa	PA	15001
Beaver	75-003-0101.000	FOGG,JERRY S & DEANNE M	2824 GREEN GARDEN ROAD	Aliquippa	PA	15001
Beaver	75-003-0400.000	FARMER,MAXINE MATTIA	129 CLEARVIEW ROAD	Aliquippa	PA	15001
Beaver	75-003-0401.000	VILLACICENCIO,ANGELO B	121 CLEARVIEW ROAD	Aliquippa	PA	15001
Beaver	75-003-0402.000	SUTTELLE,HARRY & VICKI P	117 CLEARVIEW ROAD	Aliquippa	PA	15001
Beaver	75-003-0403.000	JAMES,BENJAMIN L	113 CLEARVIEW ROAD	Aliquippa	PA	15001
Beaver	75-003-0404.000	FRANZ,MICHAEL R	111 CLEARVIEW ROAD	Aliquippa	PA	15001

Shell Falcon Abutters - Beaver County

County	Parcel ID	Landowner Name	Address	City	State	Zip
Beaver	75-003-0408.000	EDMISTON,JOHN L	GREEN GARDEN ROAD	Aliquippa	PA	15001
Beaver	75-005-0333.000	HOVANEC,STEPHEN M &	4008 LINDA DRIVE	Aliquippa	PA	15001
Beaver	75-006-0102.000	SANTUCCI,GERALD R &	4016 ENGLEWOOD DRIVE	Aliquippa	PA	15001
Beaver	75-006-0105.000	ANDERSON,GARY L &	4014 ENGLEWOOD DRIVE	Aliquippa	PA	15001
Beaver	75-006-0107.000	FURIN,VINCENT J & SYLVIA	4012 ENGLEWOOD DRIVE	Aliquippa	PA	15001
Beaver	75-006-0108.000	FURIN,VINCENT J & SYLVIA	4010 ENGLEWOOD DRIVE	Aliquippa	PA	15001
Beaver	75-006-0109.000	FURIN,MARK JOHN &	ENGLEWOOD DRIVE	Aliquippa	PA	15001
Beaver	75-006-0109.001	FURIN,MARK JOHN &	4008 ENGLEWOOD DRIVE	Aliquippa	PA	15001
Beaver	75-006-0111.000	FURIN,VINCENT J & SYLVIA	ENGLEWOOD DRIVE	Aliquippa	PA	15001
Beaver	75-006-0112.000	FURIN,VINCENT J &	4009 ENGLEWOOD DRIVE	Aliquippa	PA	15001
Beaver	75-006-0113.000	MICHALIK,THOMAS &	4011 ENGLEWOOD DRIVE	Aliquippa	PA	15001
Beaver	75-006-0115.000	ALLISON,DALE W & MARCIA	ENGLEWOOD DRIVE	Aliquippa	PA	15001
Beaver	75-006-0116.000	ALLISON,DALE W & MARCIA L	4013 ENGLEWOOD DRIVE	Aliquippa	PA	15001
Beaver	75-006-0117.000	SHULOCK,DANIEL H	4013 A ENGLEWOOD DRIVE	Aliquippa	PA	15001
Beaver	75-006-0119.000	MARQUIS,JEFFREY R & DANA L	4024 ENGLEWOOD DRIVE	Aliquippa	PA	15001
Beaver	75-007-0112.001	SMITH,JOANIE	3753 GREEN GARDEN ROAD	Aliquippa	PA	15001
Beaver	75-007-0112.002	CONTZ,JOHN E	3745 GREEN GARDEN ROAD	Aliquippa	PA	15001
Beaver	75-007-0114.000	THUER,JOHN J & DONNA M	3743 GREEN GARDEN ROAD	Aliquippa	PA	15001
Beaver	75-009-0100.000	ALBANESE,WILLIAM &	192 MCCLEARY ROAD	Aliquippa	PA	15001
Beaver	75-009-0101.000	SCHWARTZMILLER, JOY A &	204 MCCLEARY ROAD	Aliquippa	PA	15001
Beaver	75-009-0102.000	STUBY,DAVID A	208 MCCLEARY ROAD	Aliquippa	PA	15001
Beaver	75-009-0103.000	ZORN,GARY G & JUDITH A	214 MCCLEARY ROAD	Aliquippa	PA	15001
Beaver	75-009-0105.000	QUINN,JAMES M	224 MCCLEARY ROAD	Aliquippa	PA	15001
Beaver	75-009-0106.000	SPAULDING,CHRISTOPHER J	KENNEDY ROAD	Aliquippa	PA	15001
Beaver	75-009-0107.000	SPAULDING,CHRISTOPHER J	108 KENNEDY ROAD	Aliquippa	PA	15001
Beaver	75-013-0149.002	PICCIRILLI,MATTEO T	135 MCKIBBEN ROAD	Aliquippa	PA	15001
Beaver	75-013-0158.000	SUTTELLE,HARRY E III &	239 DAVIS ROAD	Aliquippa	PA	15001
Beaver	75-013-0158.001	FRANCIS,STEPHANIE A &	223 DAVIS ROAD	Aliquippa	PA	15001
Beaver	75-013-0158.003	PURYEAR,STEVEN M & LINDA M	231 DAVIS ROAD	Aliquippa	PA	15001
Beaver	75-013-0158.005	LUTHER,JAMES & HELEN	249 DAVIS ROAD	Aliquippa	PA	15001
Beaver	75-017-0100.000	HOFFMAN, RAYMOND K	898 STATE ROUTE 18	Aliquippa	PA	15001
Beaver	75-018-0116.000	JESKO,COLLEEN R	4044 PATTERSON ROAD	Aliquippa	PA	15001

Shell Falcon Abutters - Beaver County

County	Parcel ID	Landowner Name	Address	City	State	Zip
Beaver	75-018-0117.000	GORMLEY,NANCY L &	PATTERSON ROAD OFF	Aliquippa	PA	15001
Beaver	75-019-0101.000	KIPIN,PATRICIA GAIL	GREEN GARDEN ROAD	Aliquippa	PA	15001
Beaver	75-019-0102.000	KIPIN,PETER &	GREEN GARDEN ROAD	Aliquippa	PA	15001
Beaver	75-019-0103.000	KIPIN,PATRICIA GAIL	GREEN GARDEN ROAD	Aliquippa	PA	15001
Beaver	75-021-0210.000	PETROVIC,JOHN F & BARBARA	KENNEDY ROAD	Aliquippa	PA	15001
Beaver	75-024-0101.000	TAYLOR,RICHARD H JR	184 WYND LANE	Aliquippa	PA	15001
Beaver	75-024-0102.000	MAYHUE,WILLIAM SCOTT &	158 WOODS LANE	Aliquippa	PA	15001
Beaver	75-024-0105.000	GIELATA,KEVIN E & VICKI A	116 MCCLEARY ROAD	Aliquippa	PA	15001
Beaver	75-024-0106.000	MAYHUE,JOHN A & NANCY J	120 WOODS LANE	Aliquippa	PA	15001
Beaver	75-024-0109.000	VANDERGRIFT,GARY C &	122 WYND LANE	Aliquippa	PA	15001
Beaver	75-024-0111.000	ZUBACK,JOHN A & SONDRA S	996 STATE ROUTE 18	Aliquippa	PA	15001
Beaver	75-024-0112.000	U S BULK TRANSPORT,INC	FRANKFORT ROAD RTE 18	Aliquippa	PA	15001
Beaver	75-024-0113.000	U S BULK TRANSPORT,INC	972 STATE ROUTE 18	Aliquippa	PA	15001
Beaver	75-024-0114.000	U S BULK TRANSPORT,INC	978 STATE ROUTE 18	Aliquippa	PA	15001
Beaver	75-026-0109.000	SLIPER,RICHARD E &	2510 HOLMES DRIVE	Aliquippa	PA	15001
Beaver	75-028-0301.009	MANKAMYER,DALE R & NANCY D	204 MAPLEHURST DRIVE	Aliquippa	PA	15001
Beaver	75-029-0288.001	SCHMIDT,CHARLES E &	404 HOLT ROAD	Aliquippa	PA	15001
Beaver	75-029-0290.000	PATZ,JOSEPH N & SANDRA T	412 HOLT ROAD	Aliquippa	PA	15001
Beaver	75-029-0290.004	PATZ,JOSEPH N & M JOYCE	CHRISTY DRIVE	Aliquippa	PA	15001
Beaver	75-029-0301.005	HUSK,KENNETH WALTER &	119 CHRISTY DRIVE	Aliquippa	PA	15001
Beaver	75-029-0301.006	HUSK,KENNETH WALTER &	CHRISTY DRIVE	Aliquippa	PA	15001
Beaver	75-182-0110.000	MORELL,JOHN E & BONNIE L	EWING HILL ROAD	Aliquippa	PA	15001
Beaver	75-182-0111.002	KENDALL,WILLIAM G &	185 EWING HILL ROAD	Aliquippa	PA	15001
Beaver	75-182-0149.000	EWING,J MICHAEL &	ROUTE 168	Aliquippa	PA	15001
Beaver	75-182-0151.002	ROUTE 18 DEVELOPMENT LLP	953 STATE ROUTE 18	Aliquippa	PA	15001
Beaver	75-182-0171.000	HOOVER,RHONDA M	166 MCCLEARY ROAD	Aliquippa	PA	15001
Beaver	75-182-0173.000	COURTNEY,JACK S &	MOORES ROAD	Aliquippa	PA	15001
Beaver	75-182-0173.002	CHRISTY,JAMES W &	239 MOORES ROAD	Aliquippa	PA	15001
Beaver	75-182-0177.000	GEORGE,MARGARET R	114 SHIPPINGPORT ROAD	Aliquippa	PA	15001
Beaver	75-182-0206.000	HAWTHORNE,DONALD C &	120 ANDERSON STREET	Aliquippa	PA	15001
Beaver	75-182-0209.000	GILLIN,HOWARD W & EDNA P	126 ANDERSON STREET	Aliquippa	PA	15001
Beaver	75-182-0258.000	LAIRD,EVERITT H JR &	HOLT ROAD	Aliquippa	PA	15001

Shell Falcon Abutters - Beaver County

County	Parcel ID	Landowner Name	Address	City	State	Zip
Beaver	75-182-0286.000	WERME,RUSSELL C & SANDRA E	HOLT ROAD	Aliquippa	PA	15001
Beaver	75-182-0299.003	MALLOY,JOHN W & JANE	107 MAPLEHURST DRIVE	Aliquippa	PA	15001
Beaver	75-182-0300.001	LIAS,EDWARD E JR & PEG R	203 MAPLEHURST DRIVE	Aliquippa	PA	15001
Beaver	75-182-0301.000	MALLOY,THOMAS M	104 MOFFET MILL ROAD	Aliquippa	PA	15001
Beaver	75-182-0303.000	RAMSEY,RANDY A & LUCINDA A	287 MOFFET MILL ROAD	Aliquippa	PA	15001
Beaver	75-182-0304.000	WAGNER,WILLIAM J & STELLA	GUMS RUN ROAD	Aliquippa	PA	15001
Beaver	75-182-0306.000	CEMETERY	LR 04068	Aliquippa	PA	15001
Beaver	75-182-0307.002	SCHISSLER,RICHARD W &	129 RACCOON CREEK ROAD	Aliquippa	PA	15001
Beaver	75-182-0308.001	HODNICKI,STANLEY W &	112 SANDY BEACH LANE	Aliquippa	PA	15001
Beaver	75-182-0308.002	WITTERMAN,MARK & RACHEL	114 SANDY BEACH LANE	Aliquippa	PA	15001
Beaver	75-182-0308.003	REDEMPTION ROAD PROPERTIES	229 RACCOON CREEK ROAD	Aliquippa	PA	15001
Beaver	75-182-0315.000	HAWK,JOHN H &	325 RACCOON CREEK ROAD	Aliquippa	PA	15001
Beaver	75-182-0321.000	CERILLI,RICHARD & RAQUEL	PATTERSON ROAD	Aliquippa	PA	15001
Beaver	75-182-0328.001	PARRISH,JEAN VINCINE	113 BERRYS ROAD	Aliquippa	PA	15001
Beaver	75-182-0330.001	PALMER,MICHAEL A	4063 PATTERSON ROAD	Aliquippa	PA	15001
Beaver	75-182-0334.000	REYNOLDS,JOHN & NOREEN	115 WAITE LANE	Aliquippa	PA	15001
Beaver	75-182-0335.000	REYNOLDS,JOHN & NOREEN	109 WAITE LANE	Aliquippa	PA	15001
Beaver	75-182-0342.000	ANDERSON,JEFFREY T	GREEN GARDEN/CRAIL HL	Aliquippa	PA	15001
Beaver	75-182-0345.001	GILBERT,NICOLE	1913 TRUMAN DR CLARK M	Aliquippa	PA	15001
Beaver	75-182-0345.002	HEWITT,ANDREW S &	PATTERSON ROAD	Aliquippa	PA	15001
Beaver	75-182-0345.005	DUSHAC,DAVID M & MARIBETH	PATTERSON ROAD (OFF)	Aliquippa	PA	15001
Beaver	75-182-0386.000	NELSON,CURTIS & DONNA	3850 GREEN GARDEN ROAD	Aliquippa	PA	15001
Beaver	75-182-0387.000	PANTALEO,CYNTHIA L	3846 GREEN GARDEN ROAD	Aliquippa	PA	15001
Beaver	75-182-0388.000	PANTALEO,SAM & MARY	GREEN GARDEN ROAD	Aliquippa	PA	15001
Beaver	75-182-0389.000	FOX,DANIEL J	3836 GREEN GARDEN ROAD	Aliquippa	PA	15001
Beaver	75-182-0405.000	BONNATO,VICTOR P &	GREEN GARDEN ROAD	Aliquippa	PA	15001
Beaver	75-182-0408.000	BONNATO,VICTOR P &	GREEN GARDEN ROAD	Aliquippa	PA	15001
Beaver	75-182-0409.000	BONNATO TERESA &	GREEN GARDEN ROAD	Aliquippa	PA	15001
Beaver	75-182-0410.000	BONNATO,VICTOR P & TERESA	4264 GREEN GARDEN ROAD	Aliquippa	PA	15001
Beaver	75-183-0106.000	RAGER,JOHN L	448 GUMS RUN DRIVE	Aliquippa	PA	15001
Beaver	75-183-0106.001	RAGER,GREG A & PATRICIA A	398 GUMS RUN ROAD	Aliquippa	PA	15001
Beaver	75-183-0106.002	RAGER,JANET L & WYATT J	GUMS RUN ROAD	Aliquippa	PA	15001

Shell Falcon Abutters - Beaver County

County	Parcel ID	Landowner Name	Address	City	State	Zip
Beaver	75-183-0106.004	MULE TRACTS LLC	GUMS RUN ROAD	Aliquippa	PA	15001
Beaver	75-183-0107.000	MCKEOWN,BRIAN & REBECCA	4025 GUMS RUN ROAD	Aliquippa	PA	15001
Beaver	75-192-0101.001	HIGHBERGER,DANIELLE D	137 MOORES ROAD	Hookstown	PA	15050
Beaver	75-192-0101.002	ANDREWS,THOMAS & SUSAN	MOORES ROAD	Hookstown	PA	15050
Beaver	75-192-0101.006	ANDREWS,THOMAS	109 MOORES ROAD	Hookstown	PA	15050
Beaver	75-192-0101.007	MILLER,MARK D & JANELLE K	131 MOORES ROAD	Hookstown	PA	15050
Beaver	75-192-0101.008	FITZGERALD,DONZEL G &	113 MOORES ROAD	Hookstown	PA	15050
Beaver	75-192-0101.009	SEAWRIGHT WILLIAM H &	119 MOORES ROAD	Hookstown	PA	15050
Beaver	75-192-0101.010	SEAWRIGHT,WILLIAM H &	MOORES ROAD	Hookstown	PA	15050
Beaver	75-192-0101.012	MINGRINO,DAN J	178 MCCLEARY ROAD	Hookstown	PA	15050
Beaver	75-192-0102.001	OFFNER,DALE F & KATHRYN E	151 MOORES ROAD	Hookstown	PA	15050
Beaver	75-192-0102.002	HAYWOOD, MARK M JR	227 MOORES ROAD	Hookstown	PA	15050
Beaver	75-192-0102.003	DOBICH,DAVID A	MOORES ROAD	Hookstown	PA	15050
Beaver	75-192-0106.001	COURTNEY,JACK S &	KENNEDY ROAD	Hookstown	PA	15050
Beaver	75-192-0107.000	METZ,GLEN M & CATHY J ETAL	147 KENNEDY ROAD	Hookstown	PA	15050
Beaver	75-192-0108.000	DANIELS,GLENN E & LEONA M	173 KENNEDY ROAD	Hookstown	PA	15050
Beaver	75-192-0109.000	LOKOMSKI,NICHOLAS J &	177 KENNEDY ROAD	Hookstown	PA	15050
Beaver	75-192-0109.001	LOKOMSKI,MICHAEL A &	185 KENNEDY ROAD	Hookstown	PA	15050
Beaver	75-192-0109.002	LOKOMSKI,MICHAEL A &	KENNEDY ROAD	Hookstown	PA	15050
Beaver	75-192-0110.001	FRANC,JOHN A & MARTHA E	194 KENNEDY ROAD	Hookstown	PA	15050
Beaver	75-192-0158.002	BACHA, LISA MARIE	148 MORTIMER LANE	Hookstown	PA	15050
Beaver	75-192-0206.002	HOLIDAY,WILLIAM J &	190 CLEARVIEW ROAD	Hookstown	PA	15050
Beaver	75-193-0103.000	LINS,JEFFREY A &	214 CLEARVIEW ROAD	Aliquippa	PA	15001
Beaver	75-193-0106.001	BEDEKOVICH,JOSEPH & MARY	185 CLEARVIEW ROAD	Aliquippa	PA	15001
Beaver	75-193-0107.000	SIMUNICK,JOHN A & DARLENE	173 CLEARVIEW ROAD	Aliquippa	PA	15001
Beaver	75-193-0109.001	ALLEGHENY VALLEY SCHOOL	155 CLEARVIEW ROAD	Aliquippa	PA	15001
Beaver	75-193-0150.000	MOLINARO,ANTHONY E &	LONG ROAD	Aliquippa	PA	15001
Beaver	75-193-0151.000	TODD,DAVID D	130 WEST SHAFFER DRIVE	Aliquippa	PA	15001
Beaver	75-193-0152.000	REDDINGER,WILLIAM J &	111 DAVIS ROAD	Aliquippa	PA	15001
Beaver	75-193-0152.002	ALMONTE,MICHAEL M JR	255 CLEARVIEW ROAD	Aliquippa	PA	15001
Beaver	75-193-0152.003	SIMUNICK,FREDERICK &	179 DAVIS ROAD	Aliquippa	PA	15001
Beaver	75-193-0154.000	MAROVICH,DANIEL JOHN	195 DAVIS ROAD	Aliquippa	PA	15001

Shell Falcon Abutters - Beaver County

County	Parcel ID	Landowner Name	Address	City	State	Zip
Beaver	75-193-0159.000	BRATICH,BESSIE V &	184 DAVIS ROAD	Aliquippa	PA	15001

TABLE 1
AQUATIC RESOURCES IMPACT TABLE
FALCON ETHANE PIPELINE SYSTEM
BEAVER COUNTY, PENNSYLVANIA IMPACTS
REVISED NOVEMBER 2018

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type[1]	Chapter 93 Designation[2]	Pipeline or Access Road Crossing Length (ft) [3]	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) [4]	Area within Temporary Workspace (ft²) [4]	Area within ROW (ft²)[4]				
Beaver County, Pennsylvania																			
Scio to Junction Pipeline																			
1	40.582715	-80.518214	41.3	S-PA-151013-JLK-004	UNT to North Fork Tomlinson Run	Stream	Ephemeral	WWF	0.00	2.00	5.79	25.01	11.59	50.03	61.62	Permanent Right-of-Way: The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. Following construction, the stream will be restored to its original contours.	GP-5, GP-8	1 of 54	SS089
						Floodway		-	94.31	-	-	-	3308.46	2952.69		Pipeline/Permanent ROW: Shrubs will be cleared/grubbed and topsoil will be segregated during construction. Following construction the wetland will be returned to original contours and maintained as a PEM wetland. Additionally, 10-ft-wide timber mats will be placed on the wetland in the travel lanes to allow for equipment crossing. Once construction is complete, the mats will be removed.			
	40.582668	-80.518155		W-PA-151013-JLK-005 Crossing #1	-	Wetland	PEM	OTHER	53.20	-	-	-	1521.53	1618.20	3139.73				
	40.582833	-80.517656		W-PA-151013-JLK-005 Crossing #2	-	Wetland	PEM	OTHER	111.68	-	-	-	2771.23	1623.96	4395.19				
							PFO		0.00	-	-	-	835.69	1692.57	2528.25	Permanent Right-of-Way: The wetland topsoil will be segregated during construction. Following construction it will be returned and the wetland will be restored to original contours. Additionally, during construction the portion of the wetland located within the travel lane will have 10-ft-wide timber mats placed over it so that equipment can cross. Once construction is complete, the timber mats will be removed.			
	40.582913	-80.517412		S-PA-151013-JLK-002	UNT to North Fork Tomlinson Run	Stream	Perennial	WWF	4.50	4.50	61.72	161.39	277.74	726.26	1003.99	Pipeline: The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed.			
						Floodway		-	251.70	-	-	-	9056.75	13437.60					
2	40.583437	-80.515827	41.4	S-PA-151014-JLK-002	UNT to North Fork Tomlinson Run	Stream	Intermittent	WWF	3.00	3.00	41.56	48.86	124.67	146.59	271.26	Pipeline: The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below. Additionally, a 10-ft-wide timber mat will be placed across the stream in the travel lane to allow equipment to cross. Once construction is complete, the timber mat will be removed.	GP-5, GP-8	1 of 54	SS090
						Floodway		-	122.12	-	-	-	4311.81	5081.73					
3	40.583865	-80.515053	41.5	S-PA-151014-JLK-001	UNT to North Fork Tomlinson Run	Floodway	Ephemeral	-	0.00	-	-	-	0.00	5359.54	NA	Temporary Workspace: The upland floodway is located within the TWS. Following construction it will be restored to original conditions. An erosion control blanket will be placed over this area to aid in stabilization. Vegetation will be permitted to regrow to previous conditions.	GP-5, GP-8	1 of 54	SS091
4	40.584895	-80.511564	41.7	S-PA-151014-JLK-003	UNT to North Fork Tomlinson Run	Floodway	Ephemeral	-	0.00	-	-	-	1103.25	2429.75	NA	Permanent Right-of-Way: the upland floodway is located within the permanent ROW. Following construction the area will be restored to original contours. An erosion control blanket will be placed over the area to aid in stabilization. The land above the PROW will be maintained as herbaceous and any land located within TWS will be permitted to regrow to previous conditions.	GP-5, GP-8	1 of 54	SS092
5	40.587574	-80.498565	42.4	S-PA-151015-JLK-001	UNT to Mill Creek	Stream	Perennial	TSF	2.50	2.50	51.11	55.22	127.77	138.06	265.83	Pipeline: the stream crossings will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the streams will be restored to their original contours. For the wetland crossing, A trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. For all of the crossings, 10-ft-wide timber mats will be installed across the resources in the travel lanes to facilitate equipment crossings. Following construction, the mats will be removed.	GP-5, GP-8	2&3 of 54	SS093
						Floodway		-	102.88	-	-	-	5233.94	5898.37					
	40.587705	-80.498315		W-PA-151015-JLK-001	-	Wetland	PEM	OTHER	56.61	-	-	-	3437.26	1839.00	5276.26				
				S-PA-151015-JLK-002	UNT to Mill Creek	Stream	Intermittent	TSF	1.66	1.66	95.93	44.63	159.24	74.09	233.33				
						Floodway		-	111.43	-	-	-	5698.54	2152.05					

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type[1]	Chapter 93 Designation[2]	Pipeline or Access Road Crossing Length (ft) [3]	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) [4]	Area within Temporary Workspace (ft²) [4]	Area within ROW (ft²)[4]				
6	40.589177	-80.489417	42.9	S-PA-160606-CBA-001	UNT to Mill Creek	Stream	Ephemeral	TSF	0.00	2.00	10.29	29.63	20.59	59.26	79.85	Permanent Right-of-Way: The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. Following construction, the stream will be restored to its original contours.	GP-5, GP-8	4 of 54	SS094
						Floodway		-	98.35	-	-	-	4766.83	2934.07		Pipeline: A trench will be dug through the upland floodway. The area will be restored to original contours following construction. An erosion control blanket will be placed in this area to facilitate stability and aid in vegetation growth.			
	40.589272	-80.489241		S-PA-160606-CBA-002		Stream	Ephemeral	TSF	0.00	1.50	0.00	37.21	0.00	55.81	55.81	Temporary Workspace: Dry stream crossing methods will be employed here and 10-ft-wide timber mats will be placed if deemed necessary. Mats will be removed following construction and the stream will be restored to original contours following construction.			
						Floodway		-	62.69	-	-	-	2551.62	1389.77		Pipeline: A trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. During construction the portion of the wetland located within the travel lane will have a 10-ft-wide timber mat placed over it so that equipment can cross. Once construction is complete, the timber mat will be removed. A trench will be dug through the upland floodway. Following construction the area will be restored to original contours. Erosion control blankets will be installed in this area to aid in revegetation and stabilization.			
	40.589129	-80.489187		W-PA-160623-NLS-001	-	Wetland	PEM	OTHER	50.11	-	-	-	3420.21	0.00	3420.21				

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type[1]	Chapter 93 Designation[2]	Pipeline or Access Road Crossing Length (ft) [3]	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) [4]	Area within Temporary Workspace (ft²) [4]	Area within ROW (ft²)[4]				
7	40.589561	-80.482566	43.3	S-PA-160526-MRK-001	UNT to Mill Creek	Stream	Intermittent	TSF	2.25	2.25	111.09	29.53	249.95	66.44	316.39	Pipeline: The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed.	GP-5, GP-8	4&5 of 54	SS095/ SS096/ SS097
						Floodway		-	216.64	-	-	-	10417.01	4034.88					
				S-PA-160316-CBA-001		Floodway	Perennial	-	0.00	-	-	-	179.11	7881.29		Permanent Right-of-Way: the upland floodway is located within the permanent ROW. Following construction the area will be restored to original contours. An erosion control blanket will be placed over the area to aid in stabilization. The land above the PROW will be maintained as herbaceous and any land located within TWS will be permitted to regrow to previous conditions.			
8	40.589889	-80.479633	43.4	S-PA-160316-CBA-001 Crossing #2	UNT to Mill Creek	Stream	Perennial	TSF	6.30	6.30	62.35	63.41	392.80	399.51	792.31	Pipeline: For the stream, the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contour. For the wetland, a trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. Also, during construction the portion of the wetland and stream located within the travel lane will have 10-ft-wide timber mats placed over it so that equipment can cross. Once construction is complete, the timber mats will be removed. The upland floodway will be restored to original contours. An erosion control blanket will be placed in this area to facilitate stability and vegetation growth	GP-5, GP-8	5 of 54	SS098/ SS099
						Floodway		-	137.43	-	-	-	6666.76	19425.53					
	40.590103	-80.478831	43.5	W-PA-160503-MRK-006	-	Wetland	PEM	OTHER	32.62	-	-	-	2609.85	4478.67	7088.52				
	40.590046	-80.478429		W-PA-160517-MRK-001	-	Wetland	PEM	OTHER	0.00	-	-	-	68.28	1570.65	1638.93	Permanent Right-of-Way: The topsoil will be segregated during construction. Following construction it will be returned and the wetland will be restored to original contours and it will be maintained as PEM in the PROW.			
9	40.590118	-80.477667	43.5	S-PA-160316-CBA-002	Mill Creek	Stream	Perennial	TSF	19.33	19.33	43.97	0.00	850.02	0.00	850.02	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contour.	GP-5, GP-8	5 of 54	SS100
						Floodway		-	135.81	-	-	-	5520.90	0.00					

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type[1]	Chapter 93 Designation[2]	Pipeline or Access Road Crossing Length (ft) [3]	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) [4]	Area within Temporary Workspace (ft²) [4]	Area within ROW (ft²)[4]				
10	40.589962	-80.474310	43.7	S-PA-160426-MRK-003	UNT to Mill Creek	Stream	Intermittent	TSF	0.00	2.00	164.27	10.95	328.54	21.91	350.45	Pipeline: For the stream, the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contour. For the wetland, a trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to its original contours. Additionally, a portion of the bore pit will be located within the wetland. This area will be restored following construction. Ten-ft.-wide timber mats will be placed through the wetland in the travel lane to facilitate equipment crossing. Erosion control blankets will be placed in the upland floodway to facilitate stability and vegetation regrowth following site restoration.	GP-5, GP-8	5 of 54	SS101
						Floodway		-	232.69	-	-	-	11444.43	10458.57					
				W-PA-160517-MRK-002	-	Wetland	PEM	OTHER	196.08	-	-	-	9783.38	4159.69	13943.07				
11	40.592902	-80.472766	44.0	S-PA-170222-MRK-001	UNT to Mill Creek	Stream	Intermittent	TSF	3.00	3.00	50.31	26.55	150.93	79.64	230.57	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed.	GP-5, GP-8	5&6 of 54	SS102
						Floodway		-	103.20	-	-	-	7838.22	2804.28					
12	40.593640	-80.472427	44.1	S-PA-170222-MRK-002	UNT to Mill Creek	Stream	Intermittent	TSF	6.00	6.00	65.41	25.23	392.49	151.36	543.85	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed.	GP-5, GP-8	5&6 of 54	SS103
						Floodway		-	137.95	-	-	-	6777.62	2952.69					
13	40.594480	-80.470891	44.2	W-PA-170222-MRK-001	-	Wetland	PUB	OTHER	0.00	-	-	-	17.27	560.89	578.15	Permanent Right-of-Way: A small portion of this wetland is located within the PROW and the remaining portion is located within the TROW. During construction, topsoil will be segregated. Following construction the wetland will be restored. The portion of the wetland located within the PROW will be maintained as PEM.	GP-5, GP-8	6 of 54	SS104
14	40.594473	-80.470095	44.2	W-PA-170222-MRK-002	-	Wetland	PEM	OTHER	28.90	-	-	-	904.27	0.68	904.96	Pipeline: A trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. During construction the portion of the wetland located within the travel lane will have a 10-ft-wide timber mat placed over it so that equipment can cross. Once construction is complete, the timber mat will be removed.	GP-5, GP-8	6 of 54	SS105
15	40.595943	-80.461436	44.7	W-PA-160317-MRK-005	-	Wetland	PEM	OTHER	51.07	-	-	-	2428.19	846.83	3275.02	Pipeline: For the stream, the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contour. For the wetland, a trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. Also, , during construction the portion of the wetland and stream located within the travel lane will have 10-ft-wide timber mats placed over it so that equipment can cross. Once construction is complete, the timber mats will be removed. Erosion control blankets will be placed on the upland floodway to help stabilize the area during revegetation.	GP-5, GP-8	6&7 of 54	SS106
	40.596063	-80.461163		S-PA-160317-MRK-003	UNT to Mill Creek	Stream	Perennial	TSF	5.00	5.00	81.21	26.21	406.03	131.06	537.09				
						Floodway		-	180.23	-	-	-	8628.68	3586.16					
16	40.599858	-80.443624	45.7	S-PA-160316-MRK-002	Peggs Run	Stream	Perennial	WWF	9.50	9.50	72.08	28.12	684.77	267.13	951.90	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed	GP-5, GP-8	8 of 54	SS107

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type[1]	Chapter 93 Designation[2]	Pipeline or Access Road Crossing Length (ft) [3]	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) [4]	Area within Temporary Workspace (ft²) [4]	Area within ROW (ft²)[4]				
16	[illegible]	[illegible]	[illegible]	[illegible]	Peggs Run	Floodway	Perennial	-	144.79	-	-	-	7067.03	3372.08	531.90	depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed.	GP-5, GP-8	8 of 54	SS107
17	40.600623	-80.437501	46.1	S-PA-161122-CMS-001	UNT to Peggs Run	Floodway	Ephemeral	-	0.00	-	-	-	0.00	3072.91	NA	Temporary Workspace: The upland floodway is located within the TWS. Following construction it will be restored to original conditions. An erosion control blanket will be placed over this area to aid in stabilization and vegetation regrowth.	GP-5, GP-8	9 of 54	SS108
18	40.601849	-80.419001	47.0	S-PA-170413-JLK-001	UNT to Peggs Run	Stream	Perennial	WWF	14.75	14.75	0.00	20.32	0.00	299.67	299.67	SCIO-TAR-35: There is an existing ford at this stream crossing. It is an old logging road crossing. 10-ft wide timber mats will be placed in order to facilitate equipment crossing. Following construction the mats will be removed.	GP-8	10 of 54	SS109
						Floodway		-	145.08	-	-	-	0.00	2909.31					
19	40.602908	-80.419374	47.0	S-PA-161122-CMS-005	UNT to Peggs Run	Stream	Perennial	WWF	20.00	20.00	55.28	25.03	1105.57	500.62	1606.19	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed.	GP-5, GP-8	10 of 54	SS110
						Floodway		-	132.19	-	-	-	6630.57	3503.70					

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type[1]	Chapter 93 Designation[2]	Pipeline or Access Road Crossing Length (ft) [3]	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) [4]	Area within Temporary Workspace (ft²) [4]	Area within ROW (ft²)[4]				
20	40.611243	-80.410508	47.9	W-PA-161202-MRK-002	-	Wetland	PEM	OTHER	68.46	-	-	-	2871.35	349.59	3220.94	Pipeline: a trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland	GP-5, GP-8	12 of 54	SS111
								OTHER	15.81	-	-	-	0.00	0.00	0.00	This was originally proposed as a permanent fill for an access road and meter site. The meter site was later changed			
								OTHER	-	-	-	-	0.00	0.00					
21	40.611696	-80.410991	48.0	S-PA-161221-MRK-001	UNT to Haden Run	Stream	Intermittent	TSF	0.00	3.00	0.00	9.19	0.00	27.57	27.57	Temporary Workspace: Work on the stream will be conducted in the dry. Following construction both the stream and upland floodway will be restored to original contours. Erosion control blankets will be placed on the floodway to facilitate vegetation growth and stability.	GP-5, GP-8	12 of 54	SS112
						Floodway		-	0.00	-	-	-	0.00	4212.56					
22	40.612635	-80.410170	48.0	S-PA-161221-MRK-001	UNT to Haden Run	Floodway	Intermittent	-	0.00	-	-	-	1163.91	0.00	NA	Permanent Right-of-Way: the upland floodway is located within the permanent ROW. Following construction the area will be restored to original contours. An erosion control blanket will be placed over the area to aid in stabilization. The land above the PROW will be maintained as herbaceous and any land located within TWS will be permitted to regrow to previous conditions.	GP-5, GP-8	13 of 54	SS113
	40.612912	-80.409904	48.1	S-PA-161220-MRK-002		Stream	Perennial	WWF	0.00	4.00	95.06	26.84	380.23	107.36	487.60	Pipeline: The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed.			
						Floodway		-	85.78	-	-	-	4238.40	1277.59					
				W-PA-161202-MRK-001		Wetland	PFO	OTHER	0.00	-	-	-	1532.46	3092.01	4624.47	Permanent Right-of-Way: The wetland topsoil will be segregated during construction. Following construction it will be returned and the wetland will be restored to original contours. Additionally, during construction the portion of the wetland located within the travel lane will have 10-ft-wide timber mats placed over it so that equipment can cross. Once construction is complete, the timber mats will be removed.			
	40.613124	-80.409861		S-PA-161202-MRK-001		Stream	Perennial	WWF	6.00	6.00	57.17	43.27	343.05	259.60	602.65	Pipeline: The stream crossings will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the streams to allow for construction equipment crossing. Following construction the timber mat will be removed.			
						Floodway		-	127.66	-	-	-	6384.81	3882.14					
	40.613018	-80.409726		S-PA-161202-MRK-002		Stream	Perennial	WWF	0.00	6.00	0.00	4.97	0.00	29.80	29.80				
						Floodway		-	0.00	-	-	-	0.00	54.31		Temporary Workspace: the upland floodway will be returned to original contours once construction is completed. Erosion control blankets will be placed to aid in revegetation and stability.			
23	40.615966	-80.405711	48.4	S-PA-151106-MRK-003	UNT to Haden Run	Stream	Intermittent	WWF	2.00	2.00	64.68	33.97	129.37	67.93	197.30	Pipeline: the stream crossings will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the streams will be restored to their original contours. For the wetland, the trees will be cut, a trench will be dug in the wetland and the topsoil will be segregated. 10-ft-wide timber mats will be placed over the streams to allow equipment to cross. Following construction the mats will be removed.	GP-5, GP-8	13 of 54	SS114
						Floodway		-	137.28	-	-	-	7079.40	4229.19					
	40.616199	-80.405364		S-PA-151106-MRK-001		Stream	Ephemeral	WWF	1.50	1.50	69.91	28.36	104.87	42.53	147.41				
						Floodway		-	110.29	-	-	-	5618.13	3252.51					
24	40.616495	-80.397279	48.8	W-PA-151105-MRK-002	-	Wetland	PEM	OTHER	149.71	-	-	-	159.06	0.00	0.00	HDD: This wetland will be crossed via HDD at a depth of approximately 50 feet below ground surface. There will be no above-ground disturbance.	GP-5	14 of 54	SS115
25	40.616899	-80.392036	49.1	S-PA-151104-MRK-001	UNT to Service Creek	Stream	Ephemeral	HQ-CWF	5.00	5.00	57.47	29.67	287.37	148.33	435.70	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed.	GP-5, GP-8	15 of 54	SS116
						Floodway	-	-	113.12	-	-	-	5698.95	3109.42					

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type[1]	Chapter 93 Designation[2]	Pipeline or Access Road Crossing Length (ft) [3]	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) [4]	Area within Temporary Workspace (ft²) [4]	Area within ROW (ft²)[4]				
26	40.616757	-80.388007	49.3	S-PA-151104-MRK-002	UNT to Service Creek	Stream	Perennial	HQ-CWF	4.33	4.33	77.54	26.48	335.75	114.65	450.39	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed.	GP-5, GP-8	15 of 54	SS117
						Floodway	-	-	142.26	-	-	-	6910.21	3065.20					
	40.616816	-80.388172		W-PA-160111-JLK-001	-	Wetland	PEM	OTHER	0.00	-	-	-	931.85	2024.58	2956.43	Permanent Right-of-Way: The wetland topsoil will be segregated during construction. Following construction it will be returned and the wetland will be restored to original contours. Additionally, during construction the portion of the wetland located within the travel lane will have 10-ft-wide timber mats placed over it so that equipment can cross. Once construction is complete, the timber mats will be removed.			

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type[1]	Chapter 93 Designation[2]	Pipeline or Access Road Crossing Length (ft) [3]	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) [4]	Area within Temporary Workspace (ft²) [4]	Area within ROW (ft²)[4]				
27	40.616680	-80.386047	49.4	W-PA-151104-MRK-002	-	Wetland	PUB	OTHER	45.51	-	-	-	1493.26	761.67	2254.93	Pipeline: The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. Additionally,, during construction the portion of the wetland located within the travel lane will have 10-ft-wide timber mats placed over it so that equipment can cross. Once construction is complete, the timber mats will be removed.	GP-5, GP-8	15 of 54	SS118
	40.616738	-80.385930		S-PA-160111-JLK-002	UNT to Service Creek	Floodway	-	-	0.00	-	-	-	253.44	1961.59	NA	Permanent Right-of-Way: the upland floodway is located within the permanent ROW and TWS. Following construction the area will be restored to original contours. An erosion control blanket will be placed over the area to aid in stabilization. The land above the PROW will be maintained as herbaceous and any land located within TWS will be permitted to regrow to previous conditions.			
28	40.616502	-80.381215	49.7	S-PA-160111-JLK-001	UNT to Service Creek	Floodway	-	-	0.00	-	-	-	135.14	3513.30	NA	Permanent Right-of-Way: the upland floodway is located within the permanent ROW and TWS. Following construction the area will be restored to original contours. An erosion control blanket will be placed over the area to aid in stabilization. The land above the PROW will be maintained as herbaceous and any land located within TWS will be permitted to regrow to previous conditions.	GP-5, GP-8	16 of 54	SS119
29	40.616279	-80.378329	49.9	S-PA-151104-MRK-005	UNT to Service Creek	Stream	Perennial	HQ-CWF	5.00	5.00	79.36	39.17	396.78	195.87	592.65	Pipeline: For the stream, the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contour. For the wetland, a trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. Additionally,, during construction the portion of the wetland and stream located within the travel lane will have 10-ft-wide timber mats placed over it so that equipment can cross. Once construction is complete, the timber mats will be removed. The upland floodway will be restored to original contours. An erosion control blanket will be placed in this area to facilitate stability and vegetation growth	GP-5, GP-8	16 of 54	SS120
						Floodway		-	167.11	-	-	-	8934.27	3439.97					
				W-PA-151104-MRK-003	-	Wetland	PEM	OTHER	68.31	-	-	-	3021.24	2099.12	5120.36				
30	40.616167	-80.376452	50.0	S-PA-151104-MRK-006	UNT to Service Creek	Stream	Intermittent	HQ-CWF	6.50	6.50	73.47	26.48	477.54	172.13	649.68	Pipeline: For the stream, the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contour. For the wetland, the shrubs will be cleared, a trench will be dug in the wetland, and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. Shrubs will be permitted to grow in the TWS. Additionally, during construction the portion of the wetland and stream located within the travel lane will have 10-ft-wide timber mats placed over it so that equipment can cross. Once construction is complete, the timber mats will be removed. The upland floodway will be restored to original contours. An erosion control blanket will be placed in this area to facilitate stability and vegetation growth.	GP-5, GP-8	16 of 54	SS121
						Floodway		-	132.31	-	-	-	6596.36	3121.86					
				W-PA-160404-MRK-001	-	Wetland	PSS	OTHER	54.36	-	-	-	2543.94	1039.25	3583.19				
31	40.617245	-80.373263	50.2	S-PA-151104-MRK-008C	UNT to Service Creek	Stream	Perennial	HQ-CWF	4.00	4.00	50.36	49.90	201.43	199.62	401.05	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	16 of 54	SS122
						Floodway		-	107.42	-	-	-	5670.32	3628.05					

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type[1]	Chapter 93 Designation[2]	Pipeline or Access Road Crossing Length (ft) [3]	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) [4]	Area within Temporary Workspace (ft²) [4]	Area within ROW (ft²)[4]				
32	40.617531	-80.372221	50.2	S-PA-170510-CBA-001	UNT to Service Creek	Floodway	Intermittent	-	77.67	-	-	-	4128.56	3252.48	NA	Pipeline: A trench will be dug through the upland floodway. The area will be restored to original contours following construction. An erosion control blanket will be placed in this area to facilitate stability and aid in vegetation growth.	GP-5, GP-8	16 of 54	SS123
33	40.618246	-80.367990	50.4	S-PA-151105-MRK-002	UNT to Raccoon Creek	Stream	Perennial	WWF	9.50	9.50	52.91	26.06	502.62	247.54	750.16	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	17 of 54	SS124
						Floodway	-	-	116.16	-	-	-	5917.81	3123.06					
	40.618297	-80.368161		W-PA-161109-MRK-002	-	Wetland	PEM	OTHER	0.00	-	-	-	65.41	0.00	65.41	Permanent Right-of-Way: The topsoil will be segregated during construction. Following construction it will be returned and the wetland will be restored to original contours and it will be maintained as PEM in the PROW.			
34	40.617192	-80.367008	50.6	S-PA-151105-MRK-002	UNT to Raccoon Creek	Floodway	Perennial	-	0.00	-	-	-	0.00	7203.19	NA	Temporary Workspace: the upland floodway is located in the TWS. Following construction it will be returned to original contours and permitted to regrow. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	17 of 54	SS125
35	40.619496	-80.360630	51.0	S-PA-151120-JLK-001	Gums Run	Stream	Perennial	WWF	10.07	10.07	59.15	30.63	595.69	308.44	904.13	Pipeline: the stream crossings will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trenches will be dug in the dry stream beds and placed a minimum of five feet below stream bed depth. Following construction, the streams will be restored to their original contours. Additionally, 10-ft-wide timber mats will be placed in the travel area across the streams to allow for construction equipment crossing. Following construction the timber mats will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	17 of 54	SS126
						Floodway		-	130.47	-	-	-	6417.79	3291.79					
	40.619524	-80.360590		S-PA-151120-JLK-002	UNT to Gums Run	Stream	Ephemeral	WWF	5.25	5.25	71.61	25.93	375.93	136.14	512.07				
						Floodway		-	46.51	-	-	-	2252.09	3080.92					
36	40.620961	-80.353831	51.3	S-PA-151120-JLK-004	UNT to Gums Run	Stream	Intermittent	WWF	4.00	4.00	56.42	26.11	225.67	104.43	330.10	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	18 of 54	SS127
						Floodway		-	112.13	-	-	-	5742.45	2717.88					
37	40.620954	-80.353255	51.4	S-PA-151120-JLK-005	UNT to Gums Run	Floodway	Ephemeral	-	55.16	-	-	-	2384.42	0.00	NA	Pipeline: A trench will be dug through the upland floodway. The area will be restored to original contours following construction. An erosion control blanket will be placed in this area to facilitate stability and aid in vegetation growth.	GP-5, GP-8	18 of 54	SS128
Scio to Junction Pipeline Beaver County, Pennsylvania Totals						Stream			160.94	181.44	1837.49	1084.33	**9,638.99**	**5,329.41**	**14,968.39**				
						Floodway			4070.83	0.00	0.00	0.00	**192,727.93**	**167,053.97**	**NA**				
						Wetland			982.41	0.00	0.00	0.00	**40,415.72**	**27,757.37**	**68,014.03**				

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type[1]	Chapter 93 Designation[2]	Pipeline or Access Road Crossing Length (ft) [3]	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) [4]	Area within Temporary Workspace (ft²) [4]	Area within ROW (ft²)[4]				
Beaver County, Pennsylvania																			
Junction to Monaca Pipeline																			
38	40.621775	-80.349548	0.1	W-PA-160503-MRK-005	-	Wetland	PEM	OTHER	0.00	-	-	-	-	0.00	0.00	HOU-TAR-50 Removed	NA	18 of 54	SS129
39	40.622042	-80.351479	0.1	W-PA-160503-MRK-004	-	Wetland	PEM	OTHER	0.00	-	-	-	-	0.00	0.00	HOU-TAR-50 Removed	NA	18&19 of 54	SS130
40	40.622139	-80.352340	0.1	W-PA-160503-MRK-002	-	Wetland	PEM	OTHER	0.00	-	-	-	-	0.00	0.00	HOU-TAR-50 Removed	NA	18&19 of 54	SS131
41	40.623058	-80.355470	0.1	W-PA-160503-MRK-001	-	Wetland	PEM	OTHER	0.00	-	-	-	-	0.00	0.00	HOU-TAR-50 Removed	NA	18&19 of 54	SS132
42	40.621845	-80.348592	0.1	S-PA-151123-JLK-001		Floodway	Ephemeral	-	0.00	-	-	-	-	127.16	NA	Temporary Workspace: the upland floodway is located within temporary workspace. Following construction this area will be restored to original contours.	GP-5, GP-8	18&19 of 54	SS133
43	40.624711	-80.347823	0.3	S-PA-151123-JLK-003	UNT to Raccoon Creek	Stream	Intermittent	WWF	5.67	5.67	51.96	0.00	7.56	0.00	0.00	HDD: The stream will be crossed via HDD at a depth ranging from 25 to 27 feet. There will be no above-ground disturbance.	GP-5, GP-8	19 of 54	SS134
						Floodway	-	-	108.97	-	-	-	145.29	0.00					
						Stream	Intermittent	WWF	0.00	5.67	0.00	0.00	0.00	0.00		HOU-TAR-51; Culvert: There are culverts at the existing access road here. However, the rock construction entrance will temporarily impact a portion of the upland floodway. Following construction the rock will be removed.			
						Floodway	-	-	127.47	-	-	-	0.00	2841.61					
44	40.626025	-80.347551	0.4	W-PA-151123-JLK-001	-	Wetland	PEM	OTHER	0.00	-	-	-	514.34	5591.94	6106.28	Permanent Right-of-Way: The wetland topsoil will be segregated during construction. Following construction it will be returned and the wetland will be restored to original contours. Any area located within the PROW will be maintained as PEM. Additionally, during construction the portion of the wetland located within the travel lane will have 10-ft-wide timber mats placed over it so that equipment can cross. Once construction is complete, the timber mats will be removed.	GP-5, GP-8	20 of 54	SS135
45	40.627651	-80.348344	0.5	S-PA-151123-JLK-004	UNT to Raccoon Creek	Stream	Ephemeral	WWF	0.00	3.00	19.99	30.11	59.98	90.32	150.30	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	20 of 54	SS136
						Floodway		-	110.44	-	-	-	5335.21	2977.55					
46	40.635954	-80.350112	1.1	S-PA-160408-MRK-003	UNT to Fishpot Run	Stream	Ephemeral	WWF	0.00	3.00	0.00	119.89	0.00	359.66	359.66	Temporary Workspace: The stream is located in TWS. 10-ft-wide timber mats will be placed over the stream to allow for equipment crossing. Once construction is complete, the mats will be removed.	GP-5, GP-8	22 of 54	SS137
						Floodway		-	143.69	-	-	-	3973.92	7614.79		Pipeline: a trench will be dug through the upland floodway. The area will be restored to original contours following construction. An erosion control blanket will be placed in this area to facilitate stability and aid in vegetation growth.			

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type[1]	Chapter 93 Designation[2]	Pipeline or Access Road Crossing Length (ft) [3]	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) [4]	Area within Temporary Workspace (ft²) [4]	Area within ROW (ft²)[4]				
47	40.636966	-80.351248	1.2	S-PA-160408-MRK-002	Fishpot Run	Stream	Perennial	WWF	18.00	18.00	65.40	54.36	1177.22	978.42	2155.64	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	22 of 54	SS138
						Floodway		-	451.71	-	-	-	10249.94	6691.65					
	40.637093	-80.351457		W-PA-160408-MRK-002	-	Wetland	PEM	OTHER	0.00	-	-	-	0.00	580.91	580.91	Temporary Workspace: 10-foot-wide timber mats will be placed across the stream and wetland in the travel lane to allow for equipment access. Following construction the mats will be removed. Any displaced soils will be returned to their original contours.				
	40.637126	-80.351579		S-PA-160408-MRK-001	UNT to Fishpot Run	Stream	Intermittent	WWF	0.00	1.75	0.00	30.21	0.00	52.87	52.87				
						Floodway		-	0.00	-	-	-	640.22	8589.45		Permanent Right-of-Way: a trench will be dug through the upland floodway. The area will be restored to original contours following construction. An erosion control blanket will be placed in this area to facilitate stability and aid in vegetation growth.			
	40.636948	-80.352105		S-PA-160408-MRK-006		Floodway	Intermittent	-	49.87	-	-	-	4596.63	0.00	NA	Pipeline: a trench will be dug through the upland floodway. The area will be restored to original contours following construction. An erosion control blanket will be placed in this area to facilitate stability and aid in vegetation growth.			
48	40.639868	-80.353823	1.6	S-PA-160411-CBA-002	UNT to Fishpot Run	Floodway	Perennial	-	0.00	-	-	-	0.00	2052.79	NA	Temporary Workspace: temporary construction work/travel will be conducted in the upland floodway. Following construction, this area will be returned to original contours. Erosion control blankets will be placed in this area to facilitate stability and aid in vegetation regrowth.	GP-5, GP-8	23 of 54	SS139
49	40.640089	-80.354008	1.6	S-PA-160411-CBA-003	UNT to Fishpot Run	Floodway	Ephemeral	-	0.00	-	-	-	0.00	57.59	NA	Temporary Workspace: temporary construction work/travel will be conducted in the upland floodway. Following construction, this area will be returned to original contours. Erosion control blankets will be placed in this area to facilitate stability and aid in vegetation regrowth.	GP-5, GP-8	23 of 54	SS140

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type[1]	Chapter 93 Designation[2]	Pipeline or Access Road Crossing Length (ft) [3]	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) [4]	Area within Temporary Workspace (ft²) [4]	Area within ROW (ft²)[4]				
50	40.640344	-80.354566	1.6	W-PA-160411-CBA-002	-	Wetland	PEM	OTHER	28.94	-	-	-	1388.91	1580.74	2969.66	Pipeline: The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. Additionally,, during construction the portion of the wetland located within the travel lane will have 10-ft-wide timber mats placed over it so that equipment can cross. Once construction is complete, the timber mats will be removed.	GP-5, GP-8	23 of 54	SS141/ SS142
	40.640888	-80.354927		W-PA-160411-CBA-004	-	Wetland	PEM	OTHER	0.00	-	-	-	0.00	134.48	134.48	Temporary Workspace: If soils need to be displaced for extra temporary workspace, they will be segregated and returned to original contours following construction. Timber mats will be placed over the wetland if equipment needs to traverse the wetland.			
	40.641270	-80.356135	1.7	W-PA-160425-MRK-001	-	Wetland	PEM	OTHER	20.03	-	-	-	2081.56	2179.76	4261.33	Pipeline: For the stream, the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contour. For the wetland, a trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. Additionally,, during construction the portion of the wetland and stream located within the travel lane will have 10-ft-wide timber mats placed over it so that equipment can cross. Once construction is complete, the timber mats will be removed. The upland floodway will be restored to original contours. An erosion control blanket will be placed in this area to facilitate stability and vegetation growth.			
	40.641447	-80.356155		S-PA-160411-CBA-002	UNT to Fishpot Run	Stream	Perennial	WWF	3.50	3.50	50.47	73.13	176.64	255.95	432.59				
						Floodway		-	299.41	-	-	-	17317.77	22187.43					
51	40.643205	-80.348160	1.9	W-PA-160728-NLS-001A	-	Wetland	PEM	OTHER	0.00	-	-	-	0.00	0.00	0.00	HOU-TAR-53 Removed	NA	24&25 of 54	SS143
52	40.642805	-80.347072	1.9	W-PA-160728-NLS-001B	-	Wetland	PEM	OTHER	0.00	-	-	-	0.00	0.00	0.00	HOU-TAR-53 Removed	NA	24&25 of 54	SS144
53	40.642174	-80.345716	1.9	W-PA-160728-NLS-001C	-	Wetland	PEM	OTHER	0.00	-	-	-	0.00	0.00	0.00	HOU-TAR-53 Removed	NA	24 of 54	SS145
54	40.642082	-80.345193	1.9	W-PA-160728-NLS-001D	-	Wetland	PEM	OTHER	0.00	-	-	-	0.00	0.00	0.00	HOU-TAR-53 Removed	NA	24 of 54	SS145
55	40.643033	-80.341899	1.9	W-PA-160728-NLS-001E	-	Wetland	PEM	OTHER	104.77	-	-	-	0.00	0.00	0.00	HOU-TAR-53 Removed	NA	24 of 54	SS146

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type[1]	Chapter 93 Designation[2]	Pipeline or Access Road Crossing Length (ft) [3]	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) [4]	Area within Temporary Workspace (ft²) [4]	Area within ROW (ft²)[4]				
56	40.645380	-80.354051	2.0	S-PA-160418-MRK-002	UNT to Raccoon Creek	Stream	Perennial	WWF	6.00	6.00	63.34	74.70	380.07	448.19	828.26	Pipeline: the stream crossings will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the streams will be restored to their original contours. Additionally, 10-ft-wide timber mats will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mats will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	25 of 54	SS147
						Floodway	-	-	132.01	-	-	-	6739.02	7537.37					
	40.645451	-80.354043		S-PA-160425-MRK-001	UNT to Raccoon Creek	Stream	Intermittent	WWF	5.25	5.25	48.79	58.39	256.15	306.56	562.71				
						Floodway		-	11.16	-	-	-	608.85	1708.30					
	40.645447	-80.353937		S-PA-160418-MRK-002	UNT to Raccoon Creek	Stream	Perennial	WWF	6.00	6.00	0.00	15.64	0.00	93.85	93.85	HOU-TAR-54: the temporary access road is located along the edge of the LOD. The stream will be matted with 10-foot-wide timber mats to facilitate equipment crossing.			
						Floodway		-	93.04	-	-	-	0.00	1361.23					
57	40.645954	-80.353986	2.1	S-PA-160418-MRK-003	UNT to Raccoon Creek	Stream	Perennial	WWF	5.00	5.00	51.29	10.87	256.45	54.36	310.81	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to their original contours. Additionally, 10-ft-wide timber mats will be placed in the travel area across the streams to allow for construction equipment crossing. Following construction the timber mats will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	25 of 54	SS148
						Floodway		-	110.64	-	-	-	5531.97	5602.14					
	40.645957	-80.353847				Stream		WWF	5.00	5.00	0.00	20.25	0.00	101.27	101.27	HOU-TAR-54: the temporary access road is located along the edge of the LOD. The stream will be matted with 10-foot-wide timber mats to facilitate equipment crossing.			
						Floodway		-	115.91	-	-	-	0.00	2246.85					
58	40.649112	-80.349718	2.4	S-PA-160426-MRK-001	UNT to Raccoon Creek	Stream	Intermittent	WWF	5.00	5.00	50.21	5.93	251.04	29.63	280.67	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to their original contours. Additionally, 10-ft-wide timber mats will be placed in the travel area across the streams to allow for construction equipment crossing. Following construction the timber mats will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	26 of 54	SS149
						Floodway		-	121.46	-	-	-	5939.09	4226.63					
						Stream		WWF	5.00	5.00	0.00	20.83	0.00	104.13	104.13	HOU-TAR-54: the temporary access road is located along the edge of the LOD. The stream will be matted with 10-foot-wide timber mats to facilitate equipment crossing.			
						Floodway		-	108.77	-	-	-	0.00	2158.93					
59	40.648950	-80.348887	2.4	W-PA-160412-CBA-004	-	Wetland	PSS	OTHER	0.00	-	-	-	0.00	36.80	36.80	HOU-TAR-54: the temporary access road is located along the edge of the LOD. A small portion of the PSS wetland will be mowed and timber mats will be placed to allow equipment crossing. Following construction the mats will be removed and the wetland will be allowed to regrow.	GP-8	26 of 54	SS150
60	40.651572	-80.346463	2.6	W-PA-160412-CBA-001	-	Wetland	PSS	OTHER	0.00	-	-	-	89.49	0.00	89.49	Permanent Right-of-Way: the shrubs will be cut and the wetland soil will be segregated during construction. Following construction the topsoil will be replaced. The impacted portion of wetland will be maintained as PEM.	GP-5, GP-8	27 of 54	SS151
61	40.652412	-80.346269	2.7	W-PA-160412-CBA-002	-	Wetland	PEM	OTHER	39.54	-	-	-	1524.04	4611.42	6135.46	Pipeline: a trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. Additionally, during construction the portion of the wetland located within the travel lane will have 10-ft-wide timber mats placed over it so that equipment can cross. Once construction is complete, the timber mats will be removed.	GP-5, GP-8	27 of 54	SS152
62	40.654090	-80.345386	2.8	W-PA-160504-CBA-001	-	Wetland	PEM	OTHER	21.78	-	-	-	29.03	0.00	0.00	HDD: This wetland will be crossed via HDD at a depth of approximately 25 feet below ground surface. There will be no above-ground disturbance.	GP-5	27 of 54	SS153
63	40.654480	-80.344744	2.9	S-PA-151015-MRK-005	Raccoon Creek	Stream	Perennial	WWF	166.62	166.62	53.44	0.00	222.16	0.00	0.00	HDD: this stream will be crossed via HDD at a depth of approximately 38 feet. There will be no above-ground disturbance.	GP-5	27 of 54	SS154
						Floodway		-	164.35	-	-	-	219.13	0.00					
63A	40.654838	-80.344155	2.9	NWI-1	-	Wetland	PFO/PSS	OTHER	100.84	-	-	-	134.45	0.00	0.00	HDD - this was not delineated due to dangerous conditions	GP-5	27 of 54	SS154

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type[1]	Chapter 93 Designation[2]	Pipeline or Access Road Crossing Length (ft) [3]	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) [4]	Area within Temporary Workspace (ft²) [4]	Area within ROW (ft²)[4]				
64	40.657330	-80.340380	3.2	S-PA-160504-CBA-001	UNT to Ohio River	Stream	Intermittent	WWF	3.00	3.00	44.97	172.22	134.90	516.67	651.58	Permanent Right-of-Way: The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. Following construction, the stream will be restored to its original contours.	GP-5, GP-8	28 of 54	SS155
						Floodway		-	102.56	-	-	-	6499.23	15677.80		Pipeline: A trench will be dug through the upland floodway. The area will be restored to original contours following construction. An erosion control blanket will be placed in this area to facilitate stability and aid in vegetation growth.			
Junction to Monaca Pipeline Beaver County, Pennsylvania Totals								Stream	234.04	247.46	499.86	686.53	2922.17	3391.88	6084.34				
								Floodway	2251.46	0.00	0.00	0.00	67796.28	93659.27	NA				
								Wetland	215.05	0.00	0.00	0.00	5761.83	14716.07	20314.42				
Beaver County, Pennsylvania																			
Houston to Junction Pipeline																			
65	40.518654	-80.309127	22.9	S-PA-151118-JLK-001	UNT to Raredon Run	Stream	Perennial	WWF	4.58	4.58	55.75	0.00	4.87	0.00	0.00	HDD: this stream will be crossed via HDD at a depth of approximately 38 feet. There will be no above-ground disturbance.	GP-5, GP-8	31 of 54	SS156
						Floodway		-	114.90	-	-	-	122.08	0.00					
66	40.520828	-80.312815	23.0	S-PA-170413-JLK-002	UNT to Raredon Run	Floodway	Intermittent	-	115.78	-	-	-	0.00	2301.35	NA	HOU-TAR-32: There is an existing farm road here. The road will be temporarily upgraded with rock and impact the upland floodway. Following construction the road will be restored to its original state.	GP-8	31 of 54	SS157
67	40.521877	-80.308989	23.1	W-PA-151124-JLK-003	-	Wetland	PUB	OTHER	28.98	-	-	-	1419.77	247.79	1667.56	Pipeline: a trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. Additionally,, during construction the portion of the wetland located within the travel lane will have 10-ft-wide timber mats placed over it so that equipment can cross. Once construction is complete, the timber mats will be removed.	GP-5, GP-8	31&32 of 54	SS158
68	40.523201	-80.308972	23.2	S-PA-151124-JLK-008	UNT to Raredon Run	Stream	Intermittent	WWF	6.81	6.81	101.10	20.96	688.49	142.72	831.21	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	32 of 54	SS159
						Floodway		-	196.06	-	-	-	9622.22	6635.09					
69	40.533031	-80.308071	23.9	S-PA-151124-JLK-005	UNT to Raredon Run	Stream	Perennial	WWF	7.60	7.60	54.91	28.72	417.31	218.30	635.61	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	34 of 54	SS160
						Floodway		-	118.15	-	-	-	5922.09	3090.56					
70	40.545338	-80.315734	24.9	S-PA-151014-MRK-002	UNT to Raccoon Creek	Stream	Ephemeral	WWF	2.00	2.00	56.09	51.03	112.18	102.06	214.24	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	37 of 54	SS161
						Floodway		-	119.79	-	-	-	5942.61	11440.27					
71	40.547351	-80.315503	25.1	W-PA-151014-MRK-001	-	Wetland	PEM	OTHER	0.00	-	-	-	0.00	648.09	648.09	Temporary Workspace: topsoil will be segregated if disturbed and returned to original contours following construction. 10-ft-wide timber mats will be placed if equipment needs to cross. Mats will be removed following construction.	GP-5, GP-8	37 of 54	SS162

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type[1]	Chapter 93 Designation[2]	Pipeline or Access Road Crossing Length (ft) [3]	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) [4]	Area within Temporary Workspace (ft²) [4]	Area within ROW (ft²)[4]				
72	40.547374	-80.315213	25.1	S-PA-151014-MRK-003	UNT to Raccoon Creek	Floodway	Ephemeral	-	0.00	-	-	-	0.00	1633.16	NA	Temporary Workspace: the upland floodway will be returned to original contours once construction is completed. Erosion control blankets will be placed to aid in revegetation and stability.	GP-5, GP-8	37&38 of 54	SS162
73	40.550204	-80.316533	25.3	S-PA-151013-MRK-001	Raccoon Creek	Stream	Perennial	WWF	36.33	36.33	57.69	0.00	38.60	0.00	0.00	HDD: This stream will be crossed via HDD at a depth of approximately 41feet. There will be no above-ground disturbance.	GP-5	38 of 54	SS163
						Floodway		-	299.98	-	-	-	318.73	0.00					

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type[1]	Chapter 93 Designation[2]	Pipeline or Access Road Crossing Length (ft) [3]	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) [4]	Area within Temporary Workspace (ft²) [4]	Area within ROW (ft²)[4]				
74	40.550898	-80.316768	25.3	S-PA-151013-MRK-002	UNT to Raccoon Creek	Stream	Perennial	WWF	12.00	12.00	50.25	0.00	12.75	0.00	0.00	HDD: this stream will be crossed via HDD at a depth of approximately 32 feet. There will be no above-ground disturbance.	JPA	38 of 54	SS164
						Floodway		-	225.36	-	-	-	239.44	0.00					
	40.551365	-80.316924		W-PA-151013-MRK-003	-	Wetland	PEM	OTHER	257.11	-	-	-	9764.04	18065.62	27829.66	Pipeline (Partial HDD). The entrance pit for the HDD is located in this wetland. This area will be matted with timber mats as needed and will be restored to original contours following the HDD work. The beginning of the HDD is located in the wetland. The portion of the wetland with the HDD will not have above-ground disturbance. This wetland is greater than 10 acres.			
	40.551294	-80.316605			-				42.88	-	-	-	0.00	1004.77	1004.77	HOU-TAR-39: 10-ft-wide timber mats will be temporarily placed here to allow for temporary equipment access. Once construction is complete, the mats will be removed.			
75	40.552480	-80.317496	25.4	S-PA-151013-MRK-004	UNT to Raccoon Creek	Stream	Ephemeral	WWF	4.50	4.50	135.44	16.36	0.00	0.00	0.00	*this has been determined to be an upland drainage swale; therefore, the impact has been removed	NA	39 of 54	SS165
						Floodway		-	392.99	-	-	-	0.00	0.00					
						Stream		WWF	0.00	4.50	53.58	0.00	0.00	0.00	0.00				
						Floodway		-	0.00	-	-	-	0.00	0.00					
						Floodway		-	176.29				0.00	0.00	NA				
	40.552298	-80.317273		S-PA-160426-MRK-002		Floodway	Ephemeral	-	0.00	-	-	-	3370.80	0.00	NA	Permanent Right-of-Way: the upland floodway is located within the PROW. Following construction the area will be restored to original contours. An erosion control blanket will be placed over the area to aid in stabilization. The land above the PROW will be maintained as herbaceous.	GP-5, GP-8		
76	40.557108	-80.320043	25.8	W-PA-151013-MRK-005	-	Wetland	PEM	OTHER	17.15	-	-	-	1121.76	2277.80	3399.56	Pipeline: a trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. 10-ft.-wide timber mats will be placed over the wetland in the travel lane to allow for equipment crossing. Once the construction is complete, the mats will be removed.	GP-5, GP-8	40 of 54	SS166
77	40.564247	-80.319863	26.5	S-PA-160104-MRK-003	UNT to Raccoon Creek	Stream	Intermittent	WWF	0.00	1.50	0.00	0.36	0.00	0.54	0.54	Temporary Workspace: A very small portion of this stream is located in the TWS. A timber mat will be placed over the stream in the event that equipment needs to cross. The mat will be removed following construction.	GP-5, GP-8	41 of 54	SS167
						Floodway		-	47.84	-	-	-	2092.51	2015.75		Pipeline: a trench will be dug through the upland floodway. The area will be restored to original contours following construction. An erosion control blanket will be placed in this area to facilitate stability and aid in vegetation growth.			
78	40.566192	-80.319651	26.6	S-PA-160104-MRK-004	UNT to Raccoon Creek	Stream	Intermittent	WWF	4.00	4.00	53.34	41.18	213.38	164.71	378.09	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	42 of 54	SS168
						Floodway		-	110.85	-	-	-	5541.13	5359.91					
78A	40.566137	-80.318078	26.6	W-PA-160314-MRK-002	-	Wetland	PEM	OTHER	12.45	-	-	-	0.00	288.38	288.38	HOU-TAR-41.01 - temporary access road added	GP-8	42 of 54	SS168A
78B	40.566065	-80.317492	26.6	W-PA-160315-MRK-003	-	Wetland	PEM	OTHER	59.68	-	-	-	0.00	1146.21	1146.21	HOU-TAR-41.01 - temporary access road added	GP-8	42 of 54	SS168B
78C	40.566028	-80.316938	26.6	S-PA-160314-MRK-004	UNT to Raccoon Creek	Stream	Intermittent	WWF	3.50	3.50	0.00	32.73	0.00	114.56	114.56	HOU-TAR-41.01 - temporary access road added	GP-8	42 of 54	SS168C
						Floodway		-	146.81	-	-	-	0.00	4010.39		HOU-TAR-41.01 - temporary access road added	GP-8	42 of 54	
79	40.568797	-80.319143	26.8	S-PA-160322-MRK-004	UNT to Raccoon Creek	Stream	Perennial	WWF	9.00	9.00	58.35	29.87	525.16	268.84	793.99	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	42 of 54	SS169
						Floodway		-	127.37	-	-	-	6292.34	3243.03					
80	40.569670	-80.319280	26.9	S-PA-160322-MRK-003	UNT to Raccoon Creek	Stream	Ephemeral	WWF	1.50	1.50	62.81	26.71	94.22	40.06	134.27	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the	GP-5, GP-8	42&43 of	SS170

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type[1]	Chapter 93 Designation[2]	Pipeline or Access Road Crossing Length (ft) [3]	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) [4]	Area within Temporary Workspace (ft²) [4]	Area within ROW (ft²)[4]				
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Floodway	Ephemeral	-	124.88	-	-	-	6104.06	2911.49	134.27	contours. Additionally, a 10-ft wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	[illegible]	54	[illegible]
81	40.569991	-80.319330	26.9	S-PA-160322-MRK-002	UNT to Raccoon Creek	Stream	Intermittent	WWF	3.50	3.50	52.37	27.01	183.29	94.54	277.83	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	43 of 54	SS170
						Floodway		-	107.62	-	-	-	5383.18	2793.11					
82	40.573277	-80.319844	27.1	S-PA-160322-MRK-001	UNT to Raccoon Creek	Stream	Intermittent	WWF	3.00	3.00	50.24	20.01	150.73	60.04	210.76	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	43 of 54	SS171
						Floodway		-	103.50	-	-	-	5174.51	2096.07					
83	40.577968	-80.324243	27.6	S-PA-170306-MRK-001	UNT to Service Creek	Floodway	Intermittent	-	0.00	-	-	-	411.07	7403.31	NA	Permanent Right-of-Way: the upland floodplain is located within the PROW and TWS. Following construction it will be returned to original contours. Areas above the PROW will be maintained as herbaceous. An erosion control blanket will be placed over this area to facilitate stability and vegetation regrowth.	GP-5, GP-8	44 of 54	SS172
84	40.578222	-80.325143	27.6	S-PA-151204-MRK-001	UNT to Service Creek	Floodway	Intermittent	-	0.00	-	-	-	0.00	2765.00	NA	Temporary Workspace: the upland floodway is located within the TWS. Following construction it will be restored to original conditions and allowed return to original vegetation conditions. An erosion control blanket will be placed over this area to aid in stabilization and vegetation regrowth.	GP-5, GP-8	44&45 of 54	SS173
85	40.578818	-80.326664	27.7	S-PA-151204-MRK-002	UNT to Service Creek	Stream	Ephemeral	WWF	0.00	3.50	0.00	346.38	0.00	1212.32	1212.32	Permanent Right-of-Way: The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. Following construction, the stream will be restored to its original contours.	GP-5, GP-8	44&45 of 54	SS174
						Floodway		-	44.99	-	-	-	5014.96	21931.98		Pipeline: a trench will be dug through the upland floodway. Following construction the area will be restored to original contours. An erosion control blanket will be placed over the area to aid in stabilization and revegetation. The land above the PROW will be maintained as herbaceous.			
86	40.581307	-80.326317	27.9	S-PA-151204-MRK-003	Service Creek	Stream	Perennial	WWF	21.00	21.00	50.31	0.00	22.31	0.00	0.00	HDD: this stream will be crossed via HDD at a depth of approximately 27 feet. There will be no above-ground disturbance.	GP-5, GP-8	45 of 54	SS175
						Floodway		-	426.34	-	-	-	452.98	0.00					
	40.581364	-80.326134				Stream		WWF	21.00	21.00	0.00	28.64	0.00	601.48	601.48	HOU-TAR-43: there is an existing stream ford that the landowner utilizes at this location. 10-ft-wide timber mats will be placed here to allow for equipment access.			
						Floodway		-	185.04	-	-	-	0.00	3709.70					
	40.581599	-80.326248		S-PA-151204-MRK-004 Crossing #1	UNT to Service Creek	Floodway	Intermittent	-	22.63	-	-	-	974.42	0.00	NA	HOU-TAR-10: the upland floodway will be temporarily impacted by the gravel that will be placed for the temporary access road. Following construction the gravel will be removed and the area will be restored to pre-construction conditions.			
87	40.581747	-80.326286	27.9	S-PA-151204-MRK-004 Crossing #2	UNT to Service Creek	Floodway	Perennial	-	0.00	-	-	-	527.38	0.00	NA	Permanent Right-of-Way: a portion of the upland floodway is located within the PROW of the HDD. However, since it is an HDD, there will be no above-ground disturbance in this location.	GP-5, GP-8	45 of 54	SS176
								-	62.59	-	-	-	0.00	1383.36		HOU-TAR-44: the upland floodway will be temporarily impacted by the gravel that will be placed for the temporary access road. Following construction the gravel will be removed and the area will be restored to pre-construction conditions.			
[illegible]	40.592013	-80.329802	28.8	S-PA-151216-MRK-004	UNT to Frames Run	Stream	Intermittent	WWF	5.00	5.00	74.87	38.02	374.34	190.11	564.45	Pipeline: the stream crossings will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trenches will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the streams will be restored to their original contours. Additionally, 10-ft-wide timber mats will be placed in	GP-5, GP-8	48 of 54	SS177
						Floodway		-	60.98	-	-	-	2903.76	2264.97					

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type[1]	Chapter 93 Designation[2]	Pipeline or Access Road Crossing Length (ft) [3]	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) [4]	Area within Temporary Workspace (ft²) [4]	Area within ROW (ft²)[4]				
[illegible]	40.592044	-80.329820	[illegible]	S-PA-151216-MRK-003	[illegible]	Stream	Intermittent	WWF	7.50	7.50	57.26	32.13	429.47	240.96	670.43	original contours. Additionally, 10-ft-wide timber mats will be placed in the travel area across the streams to allow for construction equipment crossing. Following construction the timber mats will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	[illegible]	[illegible]	[illegible]
						Floodway		-	119.60	-	-	-	6019.95	3660.61					
89	40.593146	-80.332698	28.9	S-PA-151216-MRK-005	UNT to Frames Run	Stream	Intermittent	WWF	8.50	8.50	51.39	26.23	436.84	222.92	659.76	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	48 of 54	SS178
						Floodway		-	112.24	-	-	-	5514.97	2902.36					
90	40.593628	-80.333865	29.0	S-PA-151216-MRK-006	UNT to Frames Run	Stream	Intermittent	WWF	3.50	3.50	66.68	56.14	233.39	196.50	429.90	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	48 of 54	SS179
						Floodway		-	144.14	-	-	-	6746.45	7021.20					
91	40.594550	-80.336215	29.2	S-PA-151216-MRK-009	UNT to Frames Run	Floodway	Ephemeral	-	0.00	-	-	-	0.00	18.65	NA	Temporary Workspace: the upland floodway will be returned to original contours once construction is completed. Erosion control blankets will be placed to aid in revegetation and stability.	GP-5, GP-8	48 of 54	SS180
92	40.594651	-80.336856	29.2	S-PA-151216-MRK-007	UNT to Frames Run	Stream	Intermittent	WWF	6.00	3.00	122.18	183.20	366.53	549.59	916.12	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	48 of 54	SS180
						Floodway		-	293.87	-	-	-	13334.31	13821.04					

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type[1]	Chapter 93 Designation[2]	Pipeline or Access Road Crossing Length (ft) [3]	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) [4]	Area within Temporary Workspace (ft²) [4]	Area within ROW (ft²)[4]				
93	40.595020	-80.337987	29.3	S-PA-151216-MRK-008	UNT to Frames Run	Stream	Intermittent	WWF	4.50	4.50	50.05	25.46	225.21	114.58	339.79	Pipeline: For the stream, the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contour. For the wetland, a trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. Additionally,, during construction the portion of the wetland -003 and stream located within the travel lane will have 10-ft-wide timber mats placed over it so that equipment can cross. Once construction is complete, the timber mats will be removed. The upland floodway will be restored to original contours. An erosion control blanket will be placed in this area to facilitate stability and vegetation growth.	GP-5, GP-8	48 of 54	SS181
						Floodway		-	104.65	-	-	-	5235.40	2684.02					
	40.595011	-80.337975		W-PA-151216-MRK-002	-	Wetland	PEM	OTHER	7.30	-	-	-	369.02	0.00	369.02				
	40.595091	-80.338083		W-PA-151216-MRK-003	-	Wetland	PEM	OTHER	27.13	-	-	-	1156.93	1588.40	2745.33				
94	40.595683	-80.339174	29.3	S-PA-151209-MRK-006	UNT to Frames Run	Stream	Intermittent	WWF	3.50	3.50	58.48	27.78	204.69	97.24	301.93	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	48&49 of 54	SS182
						Floodway		-	112.65	-	-	-	5705.99	3312.94					
95	40.597043	-80.340610	29.5	S-PA-151209-MRK-005	UNT to Frames Run	Floodway	Intermittent	-	0.00	-	-	-	977.00	731.53	NA	Permanent Right-of-Way: the upland floodway will be returned to original contours following construction. It will be maintained as herbaceous above the PROW. Erosion control blankets will be installed to facilitate vegetation regrowth and slope stability.	GP-5, GP-8	49 of 54	SS183
96	40.598879	-80.343711	29.7	S-PA-151209-MRK-002	UNT to Frames Run	Stream	Intermittent	WWF	6.00	6.00	52.30	27.13	313.81	162.78	476.59	Pipeline: the stream crossings will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the streams will be restored to their original contours. Additionally, 10-ft-wide timber mats will be placed in the travel area across the streams to allow for construction equipment crossing. Following construction the timber mats will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	49 of 54	SS184
						Floodway		-	111.19	-	-	-	5534.68	3146.74					
	40.598986	-80.343752		S-PA-151209-MRK-004		Stream	Ephemeral	WWF	2.50	2.50	68.23	0.00	170.57	0.00	170.57				
						Floodway		-	72.98	-	-	-	3600.72	2557.81					
97	40.601473	-80.346561	29.9	W-PA-151215-MRK-001	-	Wetland	PEM	OTHER	0.00	-	-	-	128.56	0.00	128.56	Permanent Right-of-Way: wetland topsoil will be segregated during construction. Following construction the soil will be returned and the wetland will be restored to original contours. The wetland will be maintained as PEM within the PROW.	GP-5, GP-8	50 of 54	SS185
98	40.601911	-80.346422	29.9	S-PA-151215-MRK-001 Crossing #1	UNT to Frames Run	Stream	Intermittent	WWF	4.00	4.00	0.00	20.29	0.00	81.15	81.15	HOU-TAR-47: 10-foot-wide timber mats will be laid across the stream for this temporary access road crossing. Following construction the mats will be removed.	GP-5, GP-8	50 of 54	SS186/ SS187
						Floodway		-	105.58	-	-	-	0.00	2177.23					
	40.602005	-80.346952	30.0	S-PA-151215-MRK-001 Crossing #2		Stream	Intermittent	WWF	4.00	4.00	66.28	13.22	265.12	52.89	318.00	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to their original contours. Additionally, 10-ft-wide timber mats will be placed in the travel area across the streams to allow for construction equipment crossing. Following construction the timber mats will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.			
						Floodway		-	142.81	-	-	-	6794.75	4143.53					
	40.602154	40.602154		S-PA-170322-CBA-001		Floodway	Intermittent	-	0.00	-	-	-	0.00	1675.58	NA	Temporary Workspace: the upland floodway will be returned to original contours once construction is completed. Erosion control blankets will be placed to aid in revegetation and stability.			
	40.604210	-80.347724		S-PA-151124-MRK-015		Stream	Ephemeral	WWF	0.00	3.00	71.37	0.00	214.12	0.00	214.12	Permanent Right-of-Way: The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. Following construction, the stream will be restored to its original contours.			

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													Area within Permanent Right-of-Way (ft²) [4]	Area within Temporary Workspace (ft²) [4]	Area within ROW (ft²)[4]				
99			30.1		UNT to Gums Run	Floodway		-	52.80	-	-	-	2427.56	929.98		Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to their original contours. Additionally, 10-ft-wide timber mats will be placed in the travel area across the streams to allow for construction equipment crossing. Following construction the timber mats will be removed. The upland floodways will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	51 of 54	SS188
	40.604272	-80.347823		S-PA-151124-MRK-014		Stream	Perennial	WWF	4.00	4.00	51.20	45.57	204.81	182.27	387.08				
						Floodway		-	107.44	-	-	-	5570.18	4696.86					
100	40.604944	-80.348339	30.2	S-PA-151124-MRK-011	UNT to Gums Run	Stream	Intermittent	WWF	9.00	9.00	54.11	22.19	487.03	199.75	686.79	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	51 of 54	SS189
						Floodway		-	117.97	-	-	-	5866.63	2854.07					
	40.604875	-80.348485		S-PA-151124-MRK-012		Stream	Ephemeral	WWF	0.00	1.50	0.00	4.79	0.00	7.18	7.18	Temporary Workspace: a small portion of this stream and floodway are located in the TWS. Any channel work will be conducted "in the dry" and if equipment crossing is necessary, 10-ft-wide timber mats will be placed across the channel. All areas will be restored to pre-construction conditions. Erosion control blankets will be installed to facilitate stability and vegetation regrowth.			
						Floodway		-	0.00	-	-	-	0.00	8.78					
101	40.605470	-80.348860	30.2	S-PA-151124-MRK-009	UNT to Gums Run	Stream	Ephemeral	WWF	0.00	1.50	21.98	0.00	32.98	0.00	32.98	Permanent Right-of-Way: The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. Following construction, the stream will be restored to its original contours.	GP-5, GP-8	51 of 54	SS190
						Floodway		-	29.25	-	-	-	1307.84	28.80		Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the streams will be restored to their original contours. Additionally, 10-ft-wide timber mats will be placed in the travel area across the streams to allow for construction equipment crossing. Following construction the timber mats will be removed. The upland floodways will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.			
	40.605521	-80.348822		S-PA-151124-MRK-008		Stream	Ephemeral	WWF	2.00	2.00	22.07	0.00	44.15	0.00	44.15				
						Floodway		-	105.43	-	-	-	5327.06	0.20					
102	40.606483	-80.349259	30.3	S-PA-151124-MRK-006	UNT to Gums Run	Stream	Intermittent	WWF	6.50	6.50	95.09	0.00	618.11	0.00	618.11	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the streams will be restored to their original contours. Additionally, 10-ft-wide timber mats will be placed in the travel area across the streams to allow for construction equipment crossing. Following construction the timber mats will be removed. The upland floodways will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	51 of 54	SS191/ SS192
						Floodway		-	231.37	-	-	-	11366.82	21.34					
	40.606462	-80.349330		S-PA-151124-MRK-005		Stream	Ephemeral	WWF	2.00	2.00	7.08	0.00	14.17	0.00	14.17	Permanent Right-of-Way: The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. Following construction, the stream will be restored to its original contours.			
	40.606537	-80.349275		S-PA-151124-MRK-004		Stream	Intermittent	WWF	3.00	3.00	35.67	0.00	107.02	0.00	107.02	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the streams will be restored to their original contours. Additionally, 10-ft-wide timber mats will be placed in			

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													Area within Permanent Right-of-Way (ft²) [4]	Area within Temporary Workspace (ft²) [4]	Area within ROW (ft²)[4]				
	[illegible]	[illegible]		[illegible]		Floodway	Intermittent	-	21.24	-	-	-	1071.98	1.32	[illegible]	original contours. Additionally, 10 ft wide timber mats will be placed in the travel area across the streams to allow for construction equipment crossing. Following construction the timber mats will be removed. The upland floodways will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.			

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type[1]	Chapter 93 Designation[2]	Pipeline or Access Road Crossing Length (ft) [3]	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) [4]	Area within Temporary Workspace (ft²) [4]	Area within ROW (ft²)[4]				
103	40.613991	-80.349367	30.9	S-PA-151123-MRK-006	Gums Run	Stream	Perennial	WWF	16.00	16.00	50.75	25.02	812.02	400.38	1212.40	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	53 of 54	SS193
						Floodway		-	233.54	-	-	-	6764.52	3767.56					
104	40.614976	-80.349193	30.9	S-PA-151123-MRK-005	UNT to Gums Run	Stream	Perennial	WWF	6.50	6.50	51.54	40.80	335.02	265.17	600.19	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	53 of 54	SS194
						Floodway		-	109.55	-	-	-	5488.09	4343.05					
105	40.619749	-80.348372	31.3	S-PA-151123-MRK-001	UNT to Raccoon Creek	Stream	Ephemeral	WWF	1.50	1.50	59.49	29.79	89.23	44.68	133.91	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	18&54 of 54	SS195
						Floodway		-	120.81	-	-	-	6045.47	3284.86					

Houston to Junction Pipeline, Beaver County, Pennsylvania Totals								
Stream	236.82	249.32	2021.98	1257.84	8441.90	6028.32	14470.22	
Floodway	5652.50	0.00	0.00	0.00	177110.66	154778.57	NA	
Wetland	380.55	0.00	0.00	0.00	13960.08	25267.06	37792.54	

Beaver County, Pennsylvania Totals							
Stream	631.80	678.22	4359.33	3028.70	**21,003.05**	**14,749.61**	**35522.95**
Floodway	11974.79	0.00	0.00	0.00	**437,634.87**	**415,491.82**	**NA**
Wetland	1578.01	0.00	0.00	0.00	**60,137.63**	**67,740.50**	**126120.99**

KEY

[1] Cowardin Vegetation Classes are defined by the United States Fish and Wildlife Service (USFWS) for the National Wetland Inventory. PEM -Palustrine Emergent, PSS - Palustrine Scrub Shrub, PFO - Palustrine Forested, PUB - Palustrine Unconsolidated Bottom, POW - Palustrine Open Water

[2] Title 25, PA Code, Chapter 93 Designation CWF - Cold Water Fishes, WWF - Warm Water Fishes, HQ - High Quality, TS - Trout Stocked Fishes, OTHER - other wetland, not EV

[3] Floodways overlap streams and wetlands but not other floodways. Floodways are an assumed 50' wide from tops of banks. These are only applicable to PADEP impacts.

[4] The areas for wetlands and floodways are measured using Geographic Information Systems (G.I.S.) and the areas of streams are calculated by multiplying width X length.

Note that although there is no permanent above-ground ROW for HDDs, the permanent impact area is captured within the "Area within Permanent Right-of-Way" column.

Changed since 9/15/17 Submission

Changed since 8/01/18 Submission

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type[1]	Chapter 93 Designation[2]	Pipeline or Access Road Crossing Length (ft) [3]	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) [4]	Area within Temporary Workspace (ft²) [4]	Area within ROW (ft²)[4]				

Requirement B

Application Fee

PART ONE: WATER OBSTRUCTIONS AND ENCROACHMENTS

SECTION A. APPLICATION FEES

☒ **WATER OBSTRUCTION AND ENCROACHMENT PERMIT** (Joint Permit Application)

Some activities or structures within a project may also qualify for an accumulation of General Permit fees, please mark the box above indicating an Individual Water Obstruction and Encroachment Permit AND the corresponding fee(s) in the General Permit section below those. Activities or structures not qualifying for a General Permit fee must include a disturbance fee.

☒ Administrative Filing Fee[1]		$ 1,750	+	
☒ Temporary Disturbance ($400/0.1ac)	0.6 acres x $4,000 =	$ 2,400	+	
☒ Permanent Disturbance ($800/0.1ac)	0.7 acres x $8,000 =	$ 5,600		= $ 8,000
		WO&E FEE subtotal (a)		$ 9,750

☒ **GENERAL PERMIT(S)** (select activity/structure(s) below, see page 4 for "#" explanation)

Some activities or structures within a project requiring an Individual Water Obstruction and Encroachment Permit may qualify for an accumulation of General Permit fees, please mark the corresponding fee(s) below but not the box above indicating a General Permit.

☐ GP-1 Fish Habitat Enhancement Structures		$ 50		= $ _____
☐ GP-2 Small Docks and Boat Launching Ramps	_____ (#) x	$ 175		= $ _____
☐ GP-3 Bank Rehabilitation, Bank Protection and Gravel Bar Removal	_____ (#) x	$ 250		= $ _____
☐ GP-4 Intake and Outfall Structures	_____ (#) x	$ 200		= $ _____
☒ GP-5 Utility Line Stream Crossings[2]	1 (#) x 90 (#) x	$ 250		= $ 22,500
☐ GP-6 Agricultural Crossings and Ramps	_____ (#) x	$ 50		= $ _____
☐ GP-7 Minor Road Crossings[2]	_____ (#) x	$ 350		= $ _____
☒ GP-8 Temporary Road Crossings[2]	98 (#) x	$ 175		= $ 17,150
☐ GP-9 Agricultural Activities		$ 50		= $ _____
☐ GP-10 Abandoned Mine Reclamation		$ 500		= $ _____
☐ GP-11 Maintenance, Testing, Repair, Rehabilitation, or Replacement of Water Obstructions and Encroachments[1]		$ 750	+	
☐ Temporary Disturbance ($400/0.1ac)	_____ acres x $4,000 =	$ _____	+	
☐ Permanent Disturbance ($800/0.1ac)	_____ acres x $8,000 =	$ _____		= $ _____
☐ GP-15 Private Residential Construction in Wetlands[1]		$ 750	+	
☐ Temporary Disturbance ($400/0.1ac)	_____ acres x $4,000 =	$ _____	+	
☐ Permanent Disturbance ($800/0.1ac)	_____ acres x $8,000 =	$ _____		= $ _____
		GP(s) FEE subtotal (b)		$ 39,650

PART ONE: SECTION A. APPLICATION FEE(S) subtotal (a+b=c) $ 49,400

SECTION B. OTHER FEES

☐ Environmental Assessment for Waived Activities (§105.13(c)(2)(iv))		$ 500		$ 0
☐ Amendment to Water Obstruction and Encroachment Permit				
☐ Major Amendment[1]		$ 500	+	
☐ Temporary Disturbance	_____ acres x $4,000 =	$ _____	+	$ 0
☐ Permanent Disturbance	_____ acres x $8,000 =	$ _____		= $ 0
☐ Minor Amendment		$ 250		$ 0

Transfer of Water Obstruction and Encroachment Permit *does not require submission of this form; see Application for Transfer of Permit / Submerged Lands License Agreement (3150-PM-BWEW-0016)*

PART ONE: SECTION B. OTHER FEE(S) subtotal (d) $ 0

PART ONE: FEE(S) TOTAL (c+d=e) $ 49,400

DEP USE ONLY			
FEE TOTAL:		Permit / Authorization Number (s):	
Correct Amount:		Check #:	
Check Amount:		Payable to:	

PART TWO: DAM SAFETY (USE ONE FEE SHEET PER DAM)

SECTION A. APPLICATION FEES

☐ **DAM PERMIT APPLICATION – NEW DAM**

☐ Size A	☐ Hazard 1 $26,500	☐ Hazard 2 $26,500	☐ Hazard 3 $25,500	☐ Hazard 4 $23,500	$ ____
☐ Size B	☐ Hazard 1 $19,000	☐ Hazard 2 $19,000	☐ Hazard 3 $18,500	☐ Hazard 4 $17,000	$ ____
☐ Size C	☐ Hazard 1 $10,500	☐ Hazard 2 $10,500	☐ Hazard 3 $10,000	☐ Hazard 4 $ 8,000	$ ____

☐ **STAGED CONSTRUCTION**

NO. OF STAGES BEYOND INITIAL STAGE _____ X APPLICATION FEE _____ X 0.90 (90%) $ ____

☐ **DAM PERMIT APPLICATION – MODIFICATION OF DAM**

☐ Size A	☐ Hazard 1 $18,500	☐ Hazard 2 $18,500	☐ Hazard 3 $18,500	☐ Hazard 4 $18,000	$ ____
☐ Size B	☐ Hazard 1 $12,000	☐ Hazard 2 $12,000	☐ Hazard 3 $12,000	☐ Hazard 4 $11,500	$ ____
☐ Size C	☐ Hazard 1 $ 7,500	☐ Hazard 2 $ 7,500	☐ Hazard 3 $ 7,500	☐ Hazard 4 $ 7,500	$ ____

☐ **STAGED CONSTRUCTION**

NO. OF STAGES BEYOND INITIAL STAGE _____ X APPLICATION FEE _____ X 0.85 (85%) $ ____

☐ **DAM PERMIT APPLICATION – OPERATION & MAINTANANCE OF EXISTING DAM**

☐ Size A	☐ Hazard 1 $12,500	☐ Hazard 2 $12,500	☐ Hazard 3 $12,000	☐ Hazard 4 $10,000	$ ____
☐ Size B	☐ Hazard 1 $10,000	☐ Hazard 2 $10,000	☐ Hazard 3 $ 9,500	☐ Hazard 4 $ 8,500	$ ____
☐ Size C	☐ Hazard 1 $ 7,000	☐ Hazard 2 $ 7,000	☐ Hazard 3 $ 6,500	☐ Hazard 4 $ 6,000	$ ____

PART TWO: SECTION A. APPLICATION FEE(S) subtotal (a) $ 0

SECTION B. OTHER FEES

☐ Letter of Amendment or Authorization

☐ Major (≥$250,000)

☐ Size A $14,700 ☐ Size B $ 8,700 ☐ Size C $ 4,400 $ ____

☐ Minor (<$250,000)

☐ Size A $ 1,300 ☐ Size B $ 1,000 ☐ Size C $ 650 $ ____

☐ Major Dam Design Revision

☐ Size A $ 4,700 ☐ Size B $ 3,200 ☐ Size C $ 1,700 $ ____

☐ Environmental Assessment

☐ Environmental Assessment for Dam Removal (§105.12(a)(16)) $ 500 $ ____

☐ Non-Jurisdictional Dams $ 900 $ ____

☐ Letter of Amendment or Authorization

☐ Size A $ 1,400 ☐ Size B $ 1,000 ☐ Size C $ 900 $ ____

☐ Transfer of Dam Permit

☐ No Proof of Financial Responsibility $ 550 ☐ Proof of Financial Responsibility $300 $ ____

☐ Annual Registration

☐ Hazard 1 $ 1,500 ☐ Hazard 2 $ 1,500 ☐ Hazard 3 $ 800 $ ____

PART TWO: SECTION B. OTHER FEE(S) subtotal (b) $ 0

PART TWO: FEE(S) TOTAL (a+b=c) $ 0

DEP USE ONLY			
FEE TOTAL:		Permit / Authorization Number (s):	
Correct Amount:		Check #:	
Check amount:		Payable to:	

Requirement C

Acts 14/67/68/127 Notifications and Receipts

From: TrackingUpdates@fedex.com
To: Shearer, Natalie
Subject: FedEx Shipment 770223557314 Delivered
Date: Wednesday, September 13, 2017 8:55:15 AM

FedEx®

Your package has been delivered

Tracking # 770223557314

Ship date:
Tue, 9/12/2017

Natalie L. Shearer
AECOM
Pittsburgh, PA 15220
US

Delivered

Delivery date:
Wed, 9/13/2017 8:53 am

Beaver Cty Board of Commissioner
Beaver Cty Board of Commissioner
810 Third Street Beaver County Court House
BEAVER, PA 15009
US

Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	770223557314
Status:	Delivered: 09/13/2017 08:53 AM Signed for By: C.CCASIL
Invoice number:	10.5
Purchase order number:	60536988
Reference:	04104183.1
Signed for by:	C.CCASIL
Delivery location:	BEAVER, PA
Delivered to:	Receptionist/Front Desk
Service type:	FedEx Priority Overnight
Packaging type:	FedEx Box
Number of pieces:	1
Weight:	2.00 lb.
Special handling/Services:	Deliver Weekday
Standard transit:	9/13/2017 by 10:30 am

Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 7:55 AM CDT on 09/13/2017.

All weights are estimated.

To track the latest status of your shipment, click on the tracking number above.

Standard transit is the date and time the package is scheduled to be delivered by, based on the selected service, destination and ship date. Limitations and exceptions may apply. Please see the FedEx Service Guide for terms and conditions of service, including the FedEx Money-Back Guarantee, or contact your FedEx Customer Support representative.

Thank you for your business.

AECOM
681 Anderson Drive
Pittsburgh
PA, 15220
USA
aecom.com

September 11, 2017

Beaver County Board of
Commissioners
Beaver County Court House
810 Third Street
Beaver, PA 15009

Via FedEx: 7702 2355 7314

Dear County Commissioners:

Shell Pipeline Company LP (SPLC) retained AECOM Technical Services, Inc. (AECOM) to provide design and permitting services. This notice is to inform you of SPLC's intent to construct an ethane pipeline under a Pennsylvania Erosion and Sediment Control General Permit (ESCGP-2) for Earth Disturbance Associated with Oil & Gas Exploration, Production, Processing or Treatment Operations or Transmission Facilities and a Chapter 105 Water Obstruction and Encroachment Joint Permit coverage from the Pennsylvania Department of Environmental Protection (PADEP) for the following project:

Project Name:	Falcon Ethane Pipeline System
Project Description:	Installation of approximately 19 miles of 12-inch ethane pipeline and 3.7 miles of 16-inch ethane pipeline for the purpose of delivering product to the Shell Pennsylvania Petrochemical Facility in Monaca, Pennsylvania.
Applicant Name:	Shell Pipeline Company LP
Applicant Contact:	Robert Wooten 150 North Dairy Ashford #A2036G Houston Texas, 77079 Phone: (832) 762-2568
Site Location:	See attached Location Map.
Municipality/County:	Greene, Independence, Potter, and Raccoon Townships, Beaver County, PA

Enclosed is a Location Map, a copy of the General Information Form (GIF), a copy of the ESCGP-2 Notice of Intent (NOI) Form, and the Erosion & Sediment Control (E&SC) plan drawings completed by AECOM on behalf of the applicant. If desired, AECOM will also furnish the E&SC Narrative and detail drawings. DEP invites you to review the attached form and to comment on the accuracy of answers provided with regard to land use aspects of this project. Please be specific to DEP and focus on the relationship to local ordinances. If you wish to submit comments to DEP, you must respond within 30 days to the DEP regional office referenced in this letter. If you do not submit comments by the end of the comment period, DEP will assume that there are no substantive conflicts and proceed with the normal application review process.

This letter is intended to satisfy the requirements of Pennsylvania Acts 14, 67, 68, and 127 and the Pennsylvania Municipalities Planning Code. Section 1905-A of the Commonwealth Administrative Code, as amended by Act 14, requires that each applicant for a PADEP permit must give written notice to the municipality(ies) and the county(ies) in which the permitted activity is located. The written notices shall be

received by the municipality(ies) and county(ies) at least 30 days before the PADEP may issue or deny the permit.

Acts 67 and 68, which amended the Municipalities Planning Code to support sound land use practices and planning efforts, direct state agencies to consider comprehensive plans and zoning ordinances when reviewing applications for permitting of facilities or infrastructure, and specify that state agencies may rely upon comprehensive plans and zoning ordinances under certain conditions as described in Sections 619.2 and 1105 of the Municipalities Planning Code.

Please submit any comments concerning this project within 30 days from the date of receipt of this letter to the PADEP, Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222-4745.

For more information about this land use review process, please contact me at 412-503-4595 or visit www.depweb.state.pa.us (Keyword: Land Use Reviews).

Sincerely,

Natalie L. Shearer, M.S., QEP
Natural Resources Lead
AECOM

Enclosures: Location Map, General Information Form (GIF), ESCGP-2 NOI Form, and E&SC plan drawings

From: TrackingUpdates@fedex.com
To: Shearer, Natalie
Subject: FedEx Shipment 770223618504 Delivered
Date: Wednesday, September 13, 2017 9:11:25 AM

FedEx®

Your package has been delivered

Tracking # 770223618504

Ship date:
Tue, 9/12/2017

Natalie L. Shearer
AECOM
Pittsburgh, PA 15220
US

Delivered

Delivery date:
Wed, 9/13/2017 9:08 am

Brian Herron & Kim Moore
Green Township
262 Pittsburgh Grade Road
HOOKSTOWN, PA 15050
US

Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	770223618504
Status:	Delivered: 09/13/2017 09:08 AM Signed for By: G.SHORT
Invoice number:	10.5
Purchase order number:	60536988
Reference:	04104183.1
Signed for by:	G.SHORT
Delivery location:	HOOKSTOWN, PA
Delivered to:	Receptionist/Front Desk
Service type:	FedEx Priority Overnight
Packaging type:	FedEx Envelope
Number of pieces:	1
Weight:	2.00 lb.
Special handling/Services:	Deliver Weekday
Standard transit:	9/13/2017 by 10:30 am

Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 8:11 AM CDT on 09/13/2017.

All weights are estimated.

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Thank you for your business.

AECOM
681 Anderson Drive
Pittsburgh
PA, 15220
USA
aecom.com

September 11, 2017

Brian Herron, Chairman of Board of Supervisors
Kim Moore, Township Administrator
Greene Township
262 Pittsburgh Grade Road,
Hookstown, PA 15050

Via FedEx: 7702 2361 8504

Dear Supervisors:

Shell Pipeline Company LP (SPLC) retained AECOM Technical Services, Inc. (AECOM) to provide design and permitting services. This notice is to inform you of SPLC's intent to construct an ethane pipeline under a Pennsylvania Erosion and Sediment Control General Permit (ESCGP-2) for Earth Disturbance Associated with Oil & Gas Exploration, Production, Processing or Treatment Operations or Transmission Facilities and a Chapter 105 Water Obstruction and Encroachment Joint Permit coverage from the Pennsylvania Department of Environmental Protection (PADEP) for the following project:

Project Name:	Falcon Ethane Pipeline System
Project Description:	Installation of approximately 19 miles of 12-inch ethane pipeline and 3.7 miles of 16-inch ethane pipeline for the purpose of delivering product to the Shell Pennsylvania Petrochemical Facility in Monaca, Pennsylvania.
Applicant Name:	Shell Pipeline Company LP
Applicant Contact:	Robert Wooten 150 North Dairy Ashford #A2036G Houston Texas, 77079 Phone: (832) 762-2568
Site Location:	See attached Location Map.
Municipality/County:	Greene, Independence, Potter, and Raccoon Townships, Beaver County, PA

Enclosed is a Location Map, a copy of the General Information Form (GIF), a copy of the ESCGP-2 Notice of Intent (NOI) Form, and the Erosion & Sediment Control (E&SC) plan drawings completed by AECOM on behalf of the applicant. If desired, AECOM will also furnish the E&SC Narrative and detail drawings. DEP invites you to review the attached form and to comment on the accuracy of answers provided with regard to land use aspects of this project. Please be specific to DEP and focus on the relationship to local ordinances. If you wish to submit comments to DEP, you must respond within 30 days to the DEP regional office referenced in this letter. If you do not submit comments by the end of the comment period, DEP will assume that there are no substantive conflicts and proceed with the normal application review process.

This letter is intended to satisfy the requirements of Pennsylvania Acts 14, 67, 68, and 127 and the Pennsylvania Municipalities Planning Code. Section 1905-A of the Commonwealth Administrative Code, as amended by Act 14, requires that each applicant for a PADEP permit must give written notice to the municipality(ies) and the county(ies) in which the permitted activity is located. The written notices shall be

received by the municipality(ies) and county(ies) at least 30 days before the PADEP may issue or deny the permit.

Acts 67 and 68, which amended the Municipalities Planning Code to support sound land use practices and planning efforts, direct state agencies to consider comprehensive plans and zoning ordinances when reviewing applications for permitting of facilities or infrastructure, and specify that state agencies may rely upon comprehensive plans and zoning ordinances under certain conditions as described in Sections 619.2 and 1105 of the Municipalities Planning Code.

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For more information about this land use review process, please contact me at 412-503-4595 or visit www.depweb.state.pa.us (Keyword: Land Use Reviews).

Sincerely,

Natalie L. Shearer, M.S., QEP
Natural Resources Lead
AECOM

Enclosures: Location Map, General Information Form (GIF), ESCGP-2 NOI Form, and E&SC plan drawings

From: TrackingUpdates@fedex.com
To: Shearer, Natalie
Subject: FedEx Shipment 770223680500 Delivered
Date: Wednesday, September 13, 2017 8:24:30 AM

FedEx®

Your package has been delivered

Tracking # 770223680500

Ship date:
Tue, 9/12/2017

Natalie L. Shearer
AECOM
Pittsburgh, PA 15220
US

Delivered

Delivery date:
Wed, 9/13/2017 8:22 am

Daniel McLaughlin & Debra Shafer
Independence Township
116 School Rd
ALIQUIPPA, PA 15001
US

Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	770223680500
Status:	Delivered: 09/13/2017 08:22 AM Signed for By: D.SHAFFER
Invoice number:	10.5
Purchase order number:	60536988
Reference:	04104183.1
Signed for by:	D.SHAFFER
Delivery location:	ALIQUIPPA, PA
Delivered to:	Receptionist/Front Desk
Service type:	FedEx Priority Overnight
Packaging type:	FedEx Envelope
Number of pieces:	1
Weight:	2.00 lb.
Special handling/Services:	Deliver Weekday
Standard transit:	9/13/2017 by 10:30 am

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Thank you for your business.

AECOM
681 Anderson Drive
Pittsburgh
PA, 15220
USA
aecom.com

September 11, 2017

Daniel McLaughlin, Chairman of
Board of Supervisors
Debra Shafer, Township
Administrator
Independence Township
116 School Rd, Aliquippa, PA 15001

Via FedEx: 7702 2368 0500

Dear Supervisors:

Shell Pipeline Company LP (SPLC) retained AECOM Technical Services, Inc. (AECOM) to provide design and permitting services. This notice is to inform you of SPLC's intent to construct an ethane pipeline under a Pennsylvania Erosion and Sediment Control General Permit (ESCGP-2) for Earth Disturbance Associated with Oil & Gas Exploration, Production, Processing or Treatment Operations or Transmission Facilities and a Chapter 105 Water Obstruction and Encroachment Joint Permit coverage from the Pennsylvania Department of Environmental Protection (PADEP) for the following project:

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Applicant Contact:	Robert Wooten 150 North Dairy Ashford #A2036G Houston Texas, 77079 Phone: (832) 762-2568
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Please submit any comments concerning this project within 30 days from the date of receipt of this letter to the PADEP, Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222-4745.

For more information about this land use review process, please contact me at 412-503-4595 or visit www.depweb.state.pa.us (Keyword: Land Use Reviews).

Sincerely,

Natalie L. Shearer, M.S., QEP
Natural Resources Lead
AECOM

Enclosures: Location Map, General Information Form (GIF), ESCGP-2 NOI Form, and E&SC plan drawings

From: TrackingUpdates@fedex.com
To: Shearer, Natalie
Subject: FedEx Shipment 770223774210 Delivered
Date: Wednesday, September 13, 2017 8:21:04 AM

FedEx®

Your package has been delivered

Tracking # 770223774210

Ship date:
Tue, 9/12/2017

Natalie L. Shearer
AECOM
Pittsburgh, PA 15220
US

Delivered

Delivery date:
Wed, 9/13/2017 8:19 am

Rebecca Matsco & Linda McCoy
Potter Township
206 E Mowry Road
MONACA, PA 15061
US

Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	770223774210
Status:	Delivered: 09/13/2017 08:19 AM Signed for By: Signature not required
Invoice number:	10.5
Purchase order number:	60536988
Reference:	04104183.1
Signed for by:	Signature not required
Delivery location:	MONACA, PA
Delivered to:	Residence
Service type:	FedEx Priority Overnight
Packaging type:	FedEx Envelope
Number of pieces:	1
Weight:	2.00 lb.
Special handling/Services:	Deliver Weekday
	Residential Delivery
Standard transit:	9/13/2017 by 10:30 am

Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 7:20 AM CDT on 09/13/2017.

All weights are estimated.

To track the latest status of your shipment, click on the tracking number above.

Standard transit is the date and time the package is scheduled to be delivered by, based on the selected service, destination and ship date. Limitations and exceptions may apply. Please see the FedEx Service Guide for terms and conditions of service, including the FedEx Money-Back Guarantee, or contact your FedEx Customer Support representative.

Thank you for your business.

AECOM
681 Anderson Drive
Pittsburgh
PA, 15220
USA
aecom.com

September 11, 2017

Rebecca Matsco, Chairman of
Board of Supervisors
Linda McCoy, Township
Administrator
Potter Township
206 E Mowry Road
Monaca, PA 15061

Via FedEx: 7702 2377 4210

Dear Supervisors:

Shell Pipeline Company LP (SPLC) retained AECOM Technical Services, Inc. (AECOM) to provide design and permitting services. This notice is to inform you of SPLC's intent to construct an ethane pipeline under a Pennsylvania Erosion and Sediment Control General Permit (ESCGP-2) for Earth Disturbance Associated with Oil & Gas Exploration, Production, Processing or Treatment Operations or Transmission Facilities and a Chapter 105 Water Obstruction and Encroachment Joint Permit coverage from the Pennsylvania Department of Environmental Protection (PADEP) for the following project:

Project Name:	Falcon Ethane Pipeline System
Project Description:	Installation of approximately 19 miles of 12-inch ethane pipeline and 3.7 miles of 16-inch ethane pipeline for the purpose of delivering product to the Shell Pennsylvania Petrochemical Facility in Monaca, Pennsylvania.
Applicant Name:	Shell Pipeline Company LP
Applicant Contact:	Robert Wooten 150 North Dairy Ashford #A2036G Houston Texas, 77079 Phone: (832) 762-2568
Site Location:	See attached Location Map.
Municipality/County:	Greene, Independence, Potter, and Raccoon Townships, Beaver County, PA

Enclosed is a Location Map, a copy of the General Information Form (GIF), a copy of the ESCGP-2 Notice of Intent (NOI) Form, and the Erosion & Sediment Control (E&SC) plan drawings completed by AECOM on behalf of the applicant. If desired, AECOM will also furnish the E&SC Narrative and detail drawings. DEP invites you to review the attached form and to comment on the accuracy of answers provided with regard to land use aspects of this project. Please be specific to DEP and focus on the relationship to local ordinances. If you wish to submit comments to DEP, you must respond within 30 days to the DEP regional office referenced in this letter. If you do not submit comments by the end of the comment period, DEP will assume that there are no substantive conflicts and proceed with the normal application review process.

This letter is intended to satisfy the requirements of Pennsylvania Acts 14, 67, 68, and 127 and the Pennsylvania Municipalities Planning Code. Section 1905-A of the Commonwealth Administrative Code, as amended by Act 14, requires that each applicant for a PADEP permit must give written notice to the

municipality(ies) and the county(ies) in which the permitted activity is located. The written notices shall be received by the municipality(ies) and county(ies) at least 30 days before the PADEP may issue or deny the permit.

Acts 67 and 68, which amended the Municipalities Planning Code to support sound land use practices and planning efforts, direct state agencies to consider comprehensive plans and zoning ordinances when reviewing applications for permitting of facilities or infrastructure, and specify that state agencies may rely upon comprehensive plans and zoning ordinances under certain conditions as described in Sections 619.2 and 1105 of the Municipalities Planning Code.

Please submit any comments concerning this project within 30 days from the date of receipt of this letter to the PADEP, Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222-4745.

For more information about this land use review process, please contact me at 412-503-4595 or visit www.depweb.state.pa.us (Keyword: Land Use Reviews).

Sincerely,

Natalie L. Shearer, M.S., QEP
Natural Resources Lead
AECOM

Enclosures: Location Map, General Information Form (GIF), ESCGP-2 NOI Form, and E&SC plan drawings

From: TrackingUpdates@fedex.com
To: Shearer, Natalie
Subject: FedEx Shipment 770223830809 Delivered
Date: Wednesday, September 13, 2017 8:40:55 AM

FedEx®

Your package has been delivered

Tracking # 770223830809

Ship date:
Tue, 9/12/2017

Natalie L. Shearer
AECOM
Pittsburgh, PA 15220
US

Delivered

Delivery date:
Wed, 9/13/2017 8:37 am

David Dushac & Daisy Stone
Raccoon Township
1234 State Route 18
ALIQUIPPA, PA 15001
US

Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	770223830809
Status:	Delivered: 09/13/2017 08:37 AM Signed for By: D.STONE
Invoice number:	10.5
Purchase order number:	60536988
Reference:	04104183.1
Signed for by:	D.STONE
Delivery location:	ALIQUIPPA, PA
Delivered to:	Receptionist/Front Desk
Service type:	FedEx Priority Overnight
Packaging type:	FedEx Envelope
Number of pieces:	1
Weight:	2.00 lb.
Special handling/Services:	Deliver Weekday
Standard transit:	9/13/2017 by 10:30 am

AECOM
681 Anderson Drive
Pittsburgh
PA, 15220
USA
aecom.com

September 11, 2017

David Dushac, Chairman of Board
of Supervisors
Daisy Stone, Township
Administrator
Raccoon Township
1234 State Route 18
Aliquippa, PA 15001

Via FedEx: 7702 2383 0809

Dear Supervisors:

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Applicant Contact:	Robert Wooten 150 North Dairy Ashford #A2036G Houston Texas, 77079 Phone: (832) 762-2568
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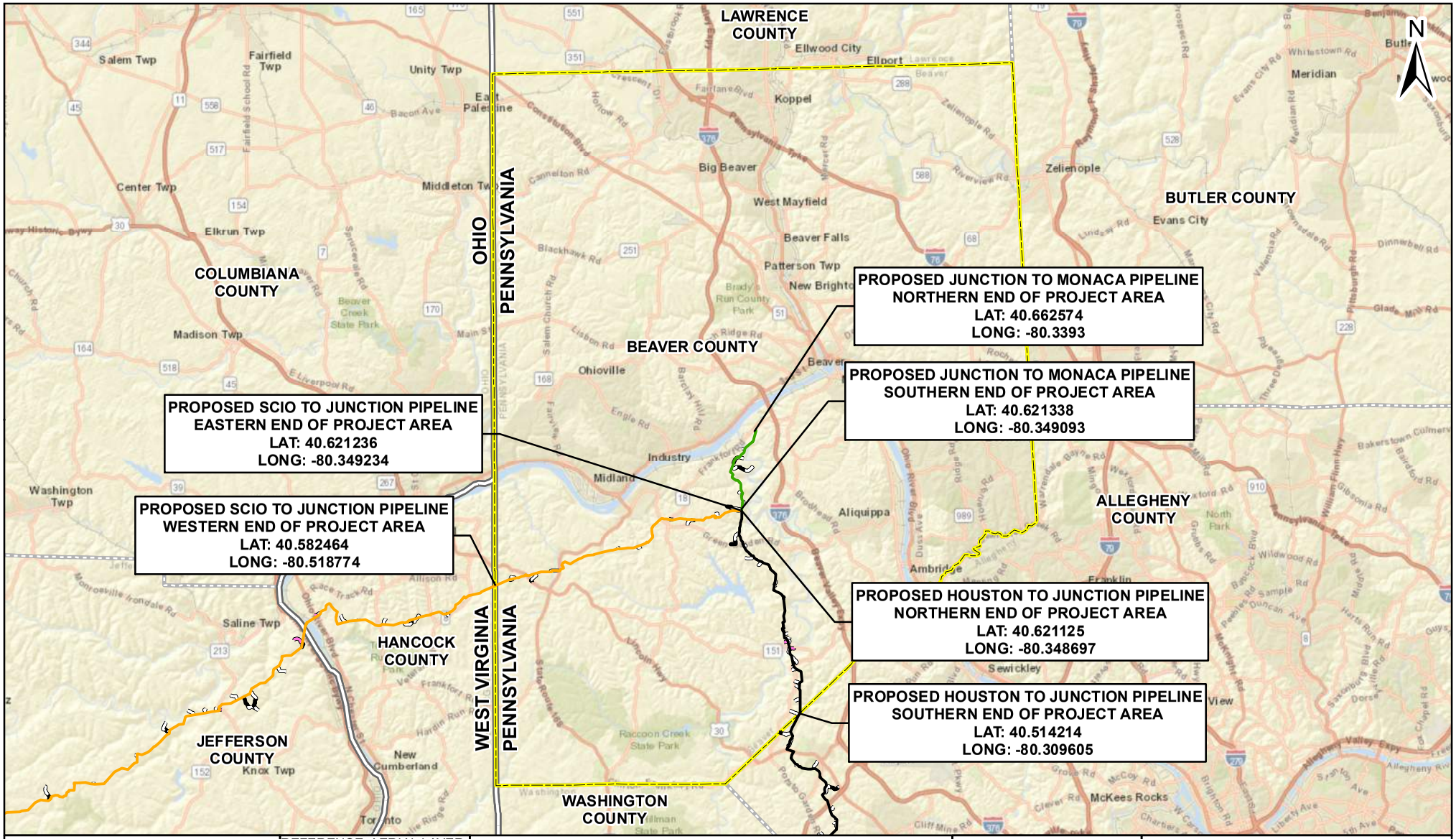

PROJECT LOCATION

REFERENCE: AERIAL LAYER - SOURCES: ESRI, HERE, DELORME, USGS, INTERMAP, INCREMENT P, NRCAN, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), ESRI KOREA, ESRI (THAILAND), MAPMYINDIA, NGCC, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17NTRANSVERSE MERCATOR

LEGEND

PROPOSED PIPELINE
- CADIZ TO SCIO
- HOUSTON TO JUNCTION
- JUNCTION TO MONACA
- SCIO TO JUNCTION

- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD
- BEAVER COUNTY
- COUNTY BOUNDARY
- STATE BOUNDARY

0 2.5 5 10 Miles

1 in = 5 miles

FALCON
SHELL PIPELINE COMPANY LP
HOUSTON, TX 77079

AECOM
FOSTER PLAZA 6
681 ANDERSEN DRIVE
SUITE 400
PITTSBURGH, PA 15220
412-503-4700

FIGURE 1

SITE LOCATION MAP
BEAVER COUNTY, PENNSYLVANIA

SHELL PIPELINE COMPANY LP FALCON ETHANE PIPELINE SYSTEM

DRAWN BY: PMH DATE: 9/11/2017
APPROVED: NLS PROJECT #:60536988

Y:\GIS\Projects\Shell\Northeast Pipeline\MXDs\ACT_14\FIGURE_1_SITE_LOCATION_BEAVER_PA_2017_09_11.mxd