

Pennsylvania Department of Environmental Protection
Southwest Regional Office
400 Waterfront Drive
Pittsburgh, PA 15222
(412) 442-4000

July 26, 2018

RECEIVED

JUL 30 2018

Clean Water
DEP, Southwest Regional Office

Attention: Mike Fifth, Environmental Engineering Manager

**Re: Shell Pipeline Company LP
Falcon Ethane Pipeline System
PAG-10 NPDES Notice of Intent
Potter, Raccoon and Independence Townships - Beaver County, PA**

Dear Mr. Fifth,

Shell Pipeline Company LP (SPLC) is hereby submitting one (1) original and two (2) copies of the completed PAG-10 National Pollutant Discharge Elimination System (NPDES) Notice of Intent (NOI) for the above-referenced project for the Pennsylvania Department of Environmental Protection's (PADEP) review and approval. This application is for the proposed discharges associated with hydrostatic testing of SPLC's Falcon Ethane Pipeline System (Project) located in Potter Township, Raccoon Township and Independence Township, Beaver County, Pennsylvania.

As required with this application, a check made payable to the "Commonwealth of Pennsylvania" in the amount of \$500.00 is provided.

Thank you in advance for your assistance with this request. If you have any questions or require additional information, please do not hesitate to contact me at (412) 503-4554 or email at brandon.walker@aecom.com.

Sincerely,



Brandon Walker, PE
Project Manager
AECOM

cc: Doug Scott - Project Manager, Shell Pipeline Company LP
Robert Wooten - Senior Staff Land Agent, Shell Pipeline Company LP



Shell Pipeline Company LP
777 Walker Street
Houston, TX 77002

CITIBANK, N.A.
ONE PENN'S WAY
NEW CASTLE, DE 19720

62-20
311

Check No. 008466
Date: 7/27/18

Pay to the Order of: Commonwealth of Pennsylvania \$ 500.00
Five hundred ⁰⁰/₁₀₀ Dollars

IN FULL SETTLEMENT OF ACCOUNT AS SHOWN BELOW. ACCEPTANCE BY ENDORSEMENT CONSTITUTES FULL PAYMENT

Shell PAG-10 Permit Application

Project / RW No. T.14042.02.01.01.01.05

BY [Signature]
Gwen Miller
Printed Name

⑈008466⑈ ⑆03⑆100209⑆ 387⑆754⑆⑈

Check No. 008466

SS#/TIN 23-2632825

Payee Address: 400 Market St
Harrisburg, PA 17101 Phone: 717-783-2300

Account Coding: 0223 935003 T.14042.02.01.01.01.05
Company Code GL Account Cost Coding

Comments Shell PAG-10 Permit Application

**NOTICE OF INTENT
PAG-10
NATIONAL POLLUTANT DISCHARGE
ELIMINATION SYSTEM (NPDES)
GENERAL PERMIT FOR DISCHARGES FROM HYDROSTATIC
TESTING OF TANKS AND PIPELINES**



**FALCON ETHANE PIPELINE PROJECT
ALLEGHENY, BEAVER, AND WASHINGTON COUNTIES,
PENNSYLVANIA**

JULY 26, 2018

SUBMITTED FOR:

**SHELL PIPELINE COMPANY LP
150 NORTH DAIRY ASHOFRD
HOUSTON, TEXAS 77079**

SUBMITTED TO:

**PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHWEST REGIONAL OFFICE
400 WATERFRONT DRIVE
PITTSBURGH, PA 15222-4745**

PREPARED BY:

AECOM

**FOSTER PLAZA 6
681 ANDERSEN DRIVE, SUITE 400
PITTSBURGH, PA 15220**

**NOTICE OF INTENT
PAG-10
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
GENERAL PERMIT FOR DISCHARGES FROM HYDROSTATIC TESTING
OF TANKS AND PIPELINES**

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- G. PPC PLAN FOR CONSTRUCTION ACTIVITIES**

ATTACHMENT A
APPLICATION CHECKLIST



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Clean Water
DEP Susquehanna Regional Office

PAG-10
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
GENERAL PERMIT FOR DISCHARGES FROM
HYDROSTATIC TESTING OF TANKS AND PIPELINES
NOTICE OF INTENT (NOI) CHECKLIST

APPLICANT'S ✓ CHECKLIST

Applicant Name	Shell Pipeline Company LP
-----------------------	---------------------------

Check the following list to make sure you have included all the required information. Place a checkmark in the box provided for all items completed and/or provided. Failure to provide all of the requested information will delay the processing of the NOI.

ENCLOSE THIS CHECKLIST WITH YOUR COMPLETED NOI.

	REQUIREMENTS FOR ALL DISCHARGES	Check ✓ If Included	DEP Use Only
1.	Three copies of the completed NOI (3800-PM-BCW0173b) (one signed).	<input checked="" type="checkbox"/>	
2.	One additional copy of the NOI, submitted to DEP regional offices (only if original NOI is submitted to DEP BCW).	<input type="checkbox"/>	
3.	One additional copy of the NOI, submitted to DRBC and/or SRBC (only if discharge(s) to the Delaware River and/or Susquehanna River watersheds will occur).	<input type="checkbox"/>	
4.	General Information Form (1300-PM-BIT0001) (new facilities only).	<input checked="" type="checkbox"/>	
5.	Topographic map(s).	<input checked="" type="checkbox"/>	
6.	NOI filing fee (\$500) unless exempt by 25 Pa. Code § 92a.26(i).	<input checked="" type="checkbox"/>	
7.	Preparedness, Prevention and Contingency (PPC) Plan.	<input checked="" type="checkbox"/>	
8.	Additional information if requested by the NOI.	<input checked="" type="checkbox"/>	



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Clean Water
Northwest Regional Office

**GENERAL INFORMATION FORM -- AUTHORIZATION APPLICATION
APPLICANT'S CHECKLIST**

This final checklist is to assist the applicant in assuring that all requests for responses, contacts, additional documentation, etc. have been addressed. Please check the following list to make sure that you have included all the required information. Failure to provide all of the requested information will delay the processing of the application and may result in the application being placed on hold with no action, or will be considered withdrawn and the application file closed. This applicant's checklist need not be returned to DEP with your completed application.

REQUIREMENTS

- 1. ATTACHMENTS.** The completion of the GIF may require the submission of some or all of the following. Where appropriate, include the appropriate attachment(s) with the completed GIF.
 - a) Site Information, Written Directions to Site** - Attach additional sheets as necessary.
 - b) Facility Information, Latitude/Longitude** – Attach additional sheets as necessary.
 - c) Project Information, Project Description** – Attach additional sheets as necessary.
 - d) Project Information, Time Schedules** -- Attach additional sheets as necessary.
 - e) Land Use Information** – Please attached completed County and Municipal Land Use Letters. If County and Municipal Land Use Letters are not included, please attach documentation indicating zoning approval (for early opt-out option), or certified mail receipts indicating that requests for County and Municipal Land Use Letters were sent to the county and municipality. For more information, see GIF Instructions and the Department's Policy for Consideration of Local Comprehensive Plans and Zoning Ordinances in DEP Review of Authorizations for Facilities and Infrastructure - Document ID: 012-0200-001.
 - f) Coordination Information** - If land is disturbed, it may be the applicant's responsibility to also notify the PA Historical and Museum Commission, Bureau of Historic Preservation, 400 North Street, Floor 2, Harrisburg, PA 17120-0093, (717) 787-3362.
PHMC notification is required for:
 - 1) purposes of construction activities for Individual NPDES permits disturbing 10 or more acres; and
 - 2) Erosion & Sediment Control permits.
 General NPDES permits disturbing 10 or more acres are exempt from PHMC notification. For additional information, see Cultural Resource Notice instructions to determine whether submission of information to PHMC is required for this permit application.
 - g) Coordination Information, Question 9.0.1** – Attach copy– Act 537 Approval Letter. Note: Approval required prior to 105/NPDES approval.
 - h) Coordination Information, Question 16.0.2** – Attach copy - Public Water Supplier's Agreement Letter to Serve the Project.

- 2. CONTACTS MADE.** According to information provided in the Coordination Information section, the appropriate DEP office may need to be contacted; as well as some agencies outside DEP. See the Instructions document for appropriate contact per coordination question.

In addition to contacts referenced above, prior to proceeding with any project, DEP encourages applicants to be in touch with municipal and county governments to get information on and secure, if possible, any local permits or approvals that might be required for the project. By doing so, potential conflicts at the local level can be resolved prior to application submission to DEP.

- 3. BEFORE YOU DIG -- CONTACT.** Pennsylvania One Call System at 1-800-242-1776.

- 4. APPLICATION SUBMITTED.** Application has been completed and properly signed according to instructions and type codes; and will be submitted to the appropriate DEP office.

ATTACHMENT B

**NOTICE OF INTENT AND
GENERAL INFORMATION FORM**


 RECEIVED
 JUL 30 2018
 DEP'S Clean Water
 West Regional Office

PAG-10
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
GENERAL PERMIT FOR DISCHARGES FROM
HYDROSTATIC TESTING OF TANKS AND PIPELINES
NOTICE OF INTENT (NOI)

Before completing this form, read the step-by-step instructions provided in this application package.

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

GENERAL INFORMATION

Facility Status: New Facility Existing Facility Permit No.: PA _____

Type of Facility: Tank(s) No. _____ Volume: _____ gallons

Pipeline(s) Diameter: 12.75/16 inches Length: _____ feet

Description of normal contents: Ethane

CLIENT/OPERATOR 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
Pamela	Alley			
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				
Number of Employees Present at Site	20 +/-				
Description of Site					
Predominantly forest land with components of agricultural fields, streams and wetlands.					
County Name	Municipality Name	City	Boro	Twp	State
Beaver	Potter, Raccoon, Independence	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PA
County Name	Municipality Name	City	Boro	Twp	State
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Site Location Address Line 1		Site Location Address Line 2	
See Attachment C			
Site Location City	State	ZIP+4	
Monaca	PA	15061	
Detailed Written Directions to Site			
See Location Map (attachment C)			
Site Contact Last Name	First Name	MI	Suffix
Wooten	Robert	B	
Site Contact Title		Site Contact Firm	
Senoir Staff Land Agent		Shell Pipeline Company LP	
Mailing Address Line 1		Mailing Address Line 2	
150 N. Dairy Ashford			
Address Last Line – City		State	ZIP+4
Houston		TX	77079
Phone	Ext	FAX	Email Address
(832) 762-2568			Robert.Wooten@shell.com
SIC Code(s) (List All That Apply)			NAICS Code(s)
Site-to-Client Relationship			
LESOP			

FACILITY AND DISCHARGE INFORMATION

Attach topographic map(s) with the facility (tank(s) and pipeline(s)) and anticipated discharge locations identified, if known. A good quality 8½ x 11 inch copy of the portion of the topographic map is acceptable, but the full quadrangle map is preferred.

Report the latitude and longitude of the facility (see instructions).

Latitude			Longitude		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
40	39	14	80	20	45

All discharge points for the permit term (check appropriate box): Are Known Are Not Known

Provide information requested in the tables below for all known discharge points. Attach additional sheets as necessary.

Outfall No.	Latitude			Longitude		
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
1	40	39	14	-80	20	45
2	40	37	18	-80	20	53
3	40	33	1	-80	18	59

Outfall No.	Anticipated Discharge Events				Receiving Water Name	Ch. 93 Existing Use
	Flow (GPM)	Duration (Hrs)	Volume (Gal)	No./Year		
1	1000	3.0	176,715	1	RACCOON CREEK	WWF
2	1000	9.6	577,339	1	RACCOON CREEK	WWF
3	1000	13.0	775,500	1	RACCOON CREEK	WWF
3	1000	3.5	210,698	1	RACCOON CREEK	WWF

NOTE: If the facility discharges to HQ or EV waters, the PAG-10 General Permit cannot be used.

Existing Permits – Identify all existing environmental permits issued by DEP or EPA for this facility.

Type of Permit	Permit No.	Date Issued	Issued By
GP-5	Currently under review		PADEP - SWRO
ESCGP-2	Currently under review		Beaver Conty Conservation District

COMPLIANCE HISTORY

Was/Is the facility owner or operator in violation of any DEP regulation, permit, order or schedule of compliance at this or any other facility? Yes No

If "Yes," list each permit, order or schedule of compliance and provide current compliance status. Use additional sheets to provide information on all permits.

Permit Program: _____ Permit No.: _____

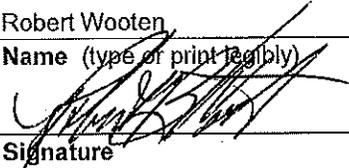
Brief Description of Non-Compliance: _____

Steps Taken to Achieve Compliance _____ Date(s) Compliance Achieved _____

Current Compliance Status: In Compliance In Non-Compliance

CERTIFICATION

I certify under penalty of law and subject to the penalties of 18 Pa. C.S. Section 4904 (relating to unsworn falsification to authorities) that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I further acknowledge that the facility and operator described herein is eligible for coverage under DEP's General Permit. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Robert Wooten
 Name (type or print legibly)

 Signature

Senior Staff Land Agent
 Official Title
 7/26/2018
 Date Signed



JUL 30 2018

GENERAL INFORMATION FORM – AUTHORIZATION APPLICATION

 Clean Water
 DEP, Southwest Regional Office

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
Pamela	Alley		
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				
Description of Site	Predominantly forest land with components of agricultural fields, streams and wetlands.				
County Name	Municipality	City	Boro	Twp	State
Beaver	Potter, Raccoon, Independence	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
County Name	Municipality	City	Boro	Twp	State
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Site Location Line 1	Site Location Line 2				
See Location Map	See Location Map				
Site Location Last Line – City	State	ZIP+4			
Potter Township	PA	15061			
Detailed Written Directions to Site	Please refer to Attachment C for the written directions to the Project site.				
Site Contact Last Name	First Name	MI	Suffix		
Wooten	Robert	B			
Site Contact Title	Site Contact Firm				
Senior Staff Land Agent	Shell Pipeline Company LC				
Mailing Address Line 1	Mailing Address Line 2				
150 N. Dairy Ashford					
Mailing Address Last Line – City	State	ZIP+4			
Houston	TX	77079			

Phone (832) 762-2568	Ext	FAX	Email Address 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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Will this project involve an addition to an existing facility, system, or activity?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

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

Latitude/Longitude Point of Origin	Latitude			Longitude		
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
	40	39	14	80	20	45

Horizontal Accuracy Measure Feet 2 --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 696 --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 2018

Source Map Scale Number 1 Inch(es) = 2000 Feet
--or-- Centimeter(s) = Meters

PROJECT INFORMATION

Project Name
Falcon Ethane Pipeline System

Project Description
The proposed Project involves discharge of a total of 1,742,252 gallons of hydrostatic test water for the installation of 53.4 miles of new 12 inch and 3.6 miles of new 16 inch diameter ethane pipeline. Please refer to Location map provided in Attachment C.

Project Consultant Last Name Walker	First Name Brandon	MI M	Suffix
---	------------------------------	----------------	---------------

Project Consultant Title Project Manager	Consulting Firm AECOM Technical Services, Inc
--	---

Mailing Address Line 1

Foster Plaza 6

Mailing Address Line 2

681 Anderson Drive

Address Last Line – City

Pittsburgh

State

PA

ZIP+4

15220

Phone

412-503-4554

Ext

FAX

Email Address

brandon.walker@aecom.com

Time Schedules

Sept/Oct 2018

Project Milestone (Optional)

Start of Construction

Fall 2018

Start Tree Clearing

Spring 2019 - Fall 2019

Full Construction

Spring 2020

Commissioning (Hydrotest)

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

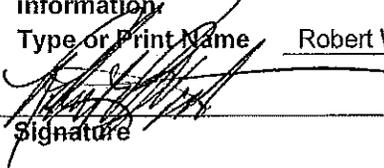
3.0	Will your project, activity, or authorization have anything to do with a well related to oil or gas production, have construction within 200 feet of, affect an oil or gas well, involve the waste from such a well, or string power lines above an oil or gas well? If "Yes", respond to 3.1-3.3. If "No", skip to Question 4.0.	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
3.1	Does the oil- or gas-related project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a watercourse, floodway or body of water (including wetlands)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
3.2	Will the oil- or gas-related project involve discharge of industrial wastewater or stormwater to a dry swale, surface water, ground water or an existing sanitary sewer system or storm water system? If "Yes", discuss in <i>Project Description</i> .	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
3.3	Will the oil- or gas-related project involve the construction and operation of industrial waste treatment facilities?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
4.0	Will the project involve a construction activity that results in earth disturbance? If "Yes", specify the total disturbed acreage. 4.0.1 Total Disturbed Acreage 305.39	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
5.0	Does the project involve any of the following? If "Yes", respond to 5.1-5.3. If "No", skip to Question 6.0.	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
5.1	Water Obstruction and Encroachment Projects – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a watercourse, floodway or body of water?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
5.2	Wetland Impacts – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a wetland?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
5.3	Floodplain Projects by the commonwealth, a Political Subdivision of the commonwealth or a Public Utility – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a floodplain?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
6.0	Will the project involve discharge of stormwater or wastewater from an industrial activity to a dry swale, surface water, ground water or an existing sanitary sewer system or separate storm water system?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
7.0	Will the project involve the construction and operation of industrial waste treatment facilities?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
8.0	Will the project involve construction of sewage treatment facilities, sanitary sewers, or sewage pumping stations? If "Yes", indicate estimated proposed flow (gal/day). Also, discuss the sanitary sewer pipe sizes and the number of pumping stations/treatment facilities/name of downstream sewage facilities in the <i>Project Description</i> , where applicable. 8.0.1 Estimated Proposed Flow (gal/day)	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
9.0	Will the project involve the subdivision of land, or the generation of 800 gpd or more of sewage on an existing parcel of land or the generation of an additional 400 gpd of sewage on an already-developed parcel, or the generation of 800 gpd or more of industrial wastewater that would be discharged to an existing sanitary sewer system?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
9.0.1	Was Act 537 sewage facilities planning submitted and approved by DEP? If "Yes" attach the approval letter. Approval required prior to 105/NPDES approval.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
10.0	Is this project for the beneficial use of biosolids for land application within Pennsylvania? If "Yes" indicate how much (i.e. gallons or dry tons per year). 10.0.1 Gallons Per Year (residential septage) _____ 10.0.2 Dry Tons Per Year (biosolids) _____	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No

11.0	Does the project involve construction, modification or removal of a dam? If "Yes", identify the dam.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
11.0.1	Dam Name _____				
12.0	Will the project interfere with the flow from, or otherwise impact, a dam? If "Yes", identify the dam.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
12.0.1	Dam Name _____				
13.0	Will the project involve operations (excluding during the construction period) that produce air emissions (i.e., NOX, VOC, etc.)? If "Yes", identify each type of emission followed by the amount of that emission.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
13.0.1	Enter all types & amounts of emissions; separate each set with semicolons.				
14.0	Does the project include the construction or modification of a drinking water supply to serve 15 or more connections or 25 or more people, at least 60 days out of the year? If "Yes", check all proposed sub-facilities.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
14.0.1	Number of Persons Served _____				
14.0.2	Number of Employee/Guests _____				
14.0.3	Number of Connections _____				
14.0.4	Sub-Fac: Distribution System	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.5	Sub-Fac: Water Treatment Plant	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.6	Sub-Fac: Source	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.7	Sub-Fac: Pump Station	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.8	Sub Fac: Transmission Main	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.9	Sub-Fac: Storage Facility	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
15.0	Will your project include infiltration of storm water or waste water to ground water within one-half mile of a public water supply well, spring or infiltration gallery?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
16.0	Is your project to be served by an existing public water supply? If "Yes", indicate name of supplier and attach letter from supplier stating that it will serve the project.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
16.0.1	Supplier's Name _____				
16.0.2	Letter of Approval from Supplier is Attached	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
17.0	Will this project involve a new or increased drinking water withdrawal from a stream or other water body? If "Yes", should reference both Water Supply and Watershed Management.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
17.0.1	Stream Name _____				
18.0	Will the construction or operation of this project involve treatment, storage, reuse, or disposal of waste? If "Yes", indicate what type (i.e., hazardous, municipal (including infectious & chemotherapeutic), residual) and the amount to be treated, stored, re-used or disposed.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
18.0.1	Type & Amount _____				
19.0	Will your project involve the removal of coal, minerals, etc. as part of any earth disturbance activities?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
20.0	Does your project involve installation of a field constructed underground storage tank? If "Yes", list each Substance & its Capacity. Note: Applicant may need a Storage Tank Site Specific Installation Permit.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
20.0.1	Enter all substances & capacity of each; separate each set with semicolons.				
21.0	Does your project involve installation of an aboveground storage tank greater than 21,000 gallons capacity at an existing facility? If "Yes", list each Substance & its Capacity. Note: Applicant may need a Storage Tank Site Specific Installation Permit.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
21.0.1	Enter all substances & capacity of each; separate each set with semicolons.				

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

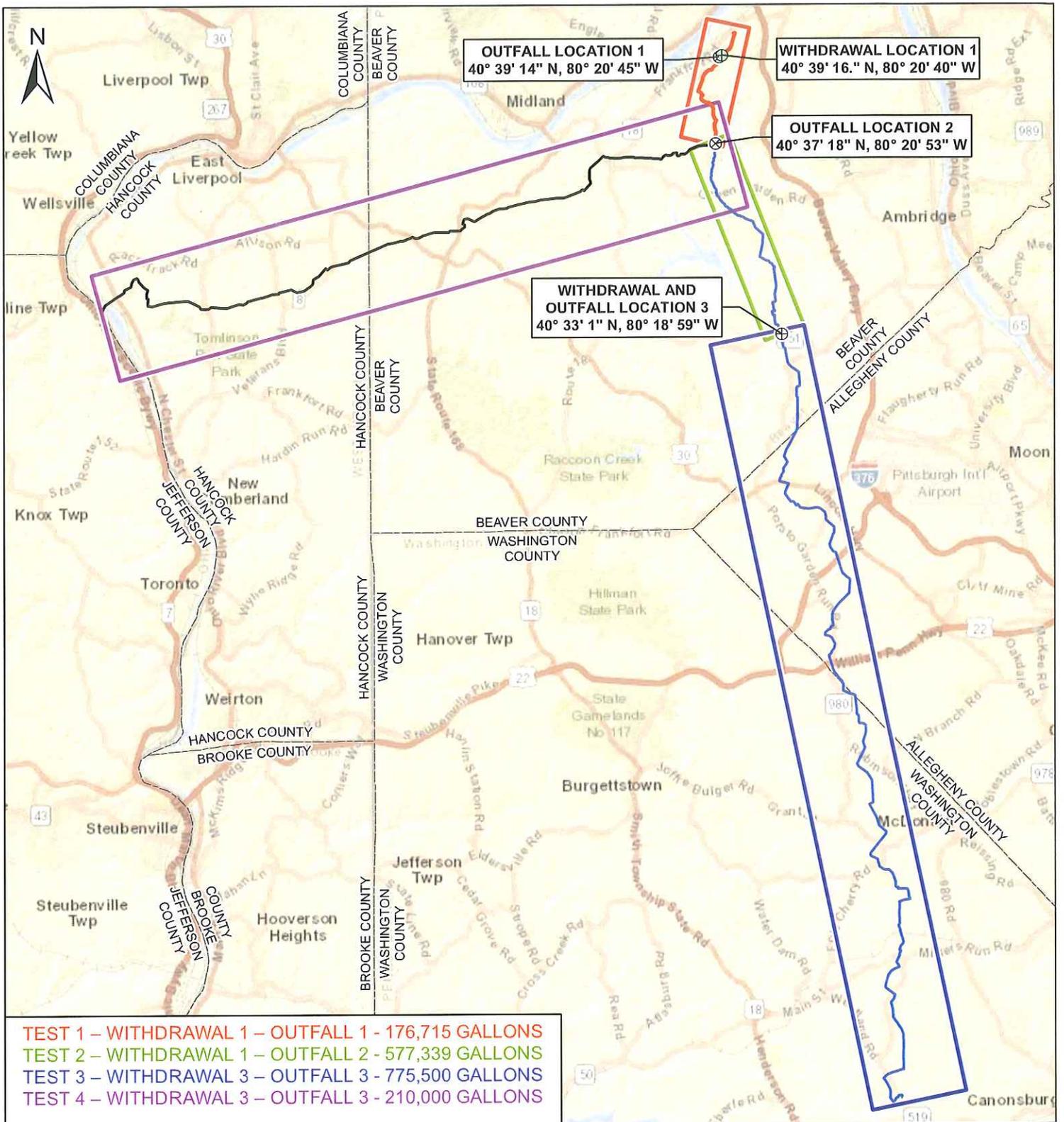
CERTIFICATION

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

Type or Print Name	Robert Wooten	
	Senior Staff Land Agent	7/26/2018
Signature	Title	Date

ATTACHMENT C

**DISCHARGE LOCATIONS MAP AND
DIRECTIONS TO SITE**



TEST 1 – WITHDRAWAL 1 – OUTFALL 1 - 176,715 GALLONS
TEST 2 – WITHDRAWAL 1 – OUTFALL 2 - 577,339 GALLONS
TEST 3 – WITHDRAWAL 3 – OUTFALL 3 - 775,500 GALLONS
TEST 4 – WITHDRAWAL 3 – OUTFALL 3 - 210,000 GALLONS

PROJECT LOCATION



REFERENCE:
 SOURCES: ESRI,
 HERE, GARMIN,
 USGS, INTERMAP,
 INCREMENT P,
 NRCAN, ESRI,
 JAPAN, METI, ESRI,
 CHINA (HONG
 KONG), ESRI,
 KOREA, ESRI,
 (THAILAND), NGCC,
 © OPENSTREETMAP
 CONTRIBUTORS,
 AND THE GIS USER
 COMMUNITY.
 COORDINATE
 SYSTEM: UTM83-
 177TRANSVERSE
 MERCATOR

LEGEND

- ⊗ OUTFALL
- ⊕ WITHDRAWAL
- ⊕ WITHDRAWAL AND OUTFALL
- PROPOSED HOUSTON TO JUNCTION PIPELINE
- PROPOSED JUNCTION TO MONACA PIPELINE
- PROPOSED SCIO TO JUNCTION PIPELINE
- ▭ TEST 1 – FROM PLANT TO JUNCTION
- ▭ TEST 2 – FROM JUNCTION TO OHIO RIVER
- ▭ TEST 3 – FROM JUNCTION TO THE CONSERVATION DISTRICT OUTFALL
- ▭ TEST 4 – FROM CONSERVATION DISTRICT OUTFALL TO HOUSTON
- ▭ COUNTY BOUNDARY



SHELL PIPELINE
 COMPANY LP
 HOUSTON, TX 77079

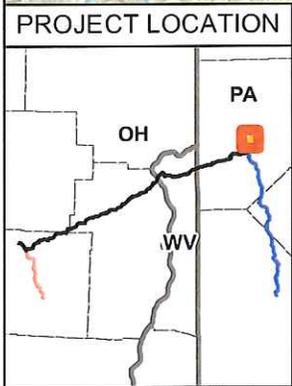
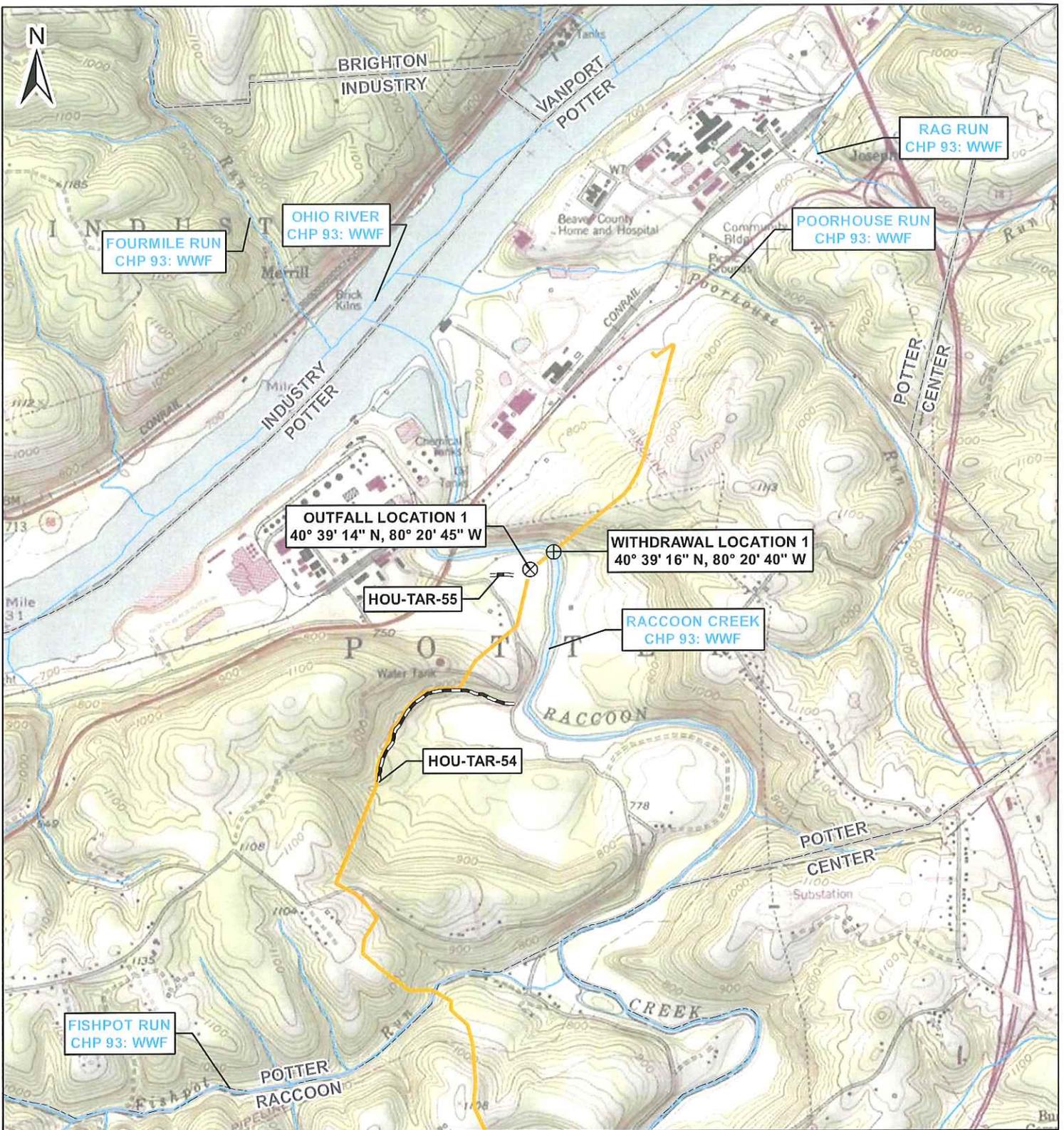


FOSTER PLAZA 6
 681 ANDERSEN DRIVE
 SUITE 400
 PITTSBURGH, PA 15220
 412-503-4700

DISCHARGE LOCATION OVERVIEW MAP

**SHELL PIPELINE
 COMPANY LP
 FALCON ETHANE
 PIPELINE SYSTEM**

DRAWN BY: PMH DATE: 7/25/2018
 APPROVED: JCC PROJECT #:



REFERENCE:
 COPYRIGHT: © 2013
 NATIONAL
 GEOGRAPHIC
 SOCIETY, I-CUBED.
 COORDINATE SYSTEM:
 UTM83
 17T TRANSVERSE
 MERCATOR

LEGEND

- ⊗ OUTFALL
- ⊕ WITHDRAWAL
- CHAPTER 93 STREAM
- TEMPORARY ACCESS ROAD
- PROPOSED JUNCTION TO MONACA PIPELINE
- ▭ MUNICIPAL BOUNDARY

0 1,000 2,000 4,000 Feet

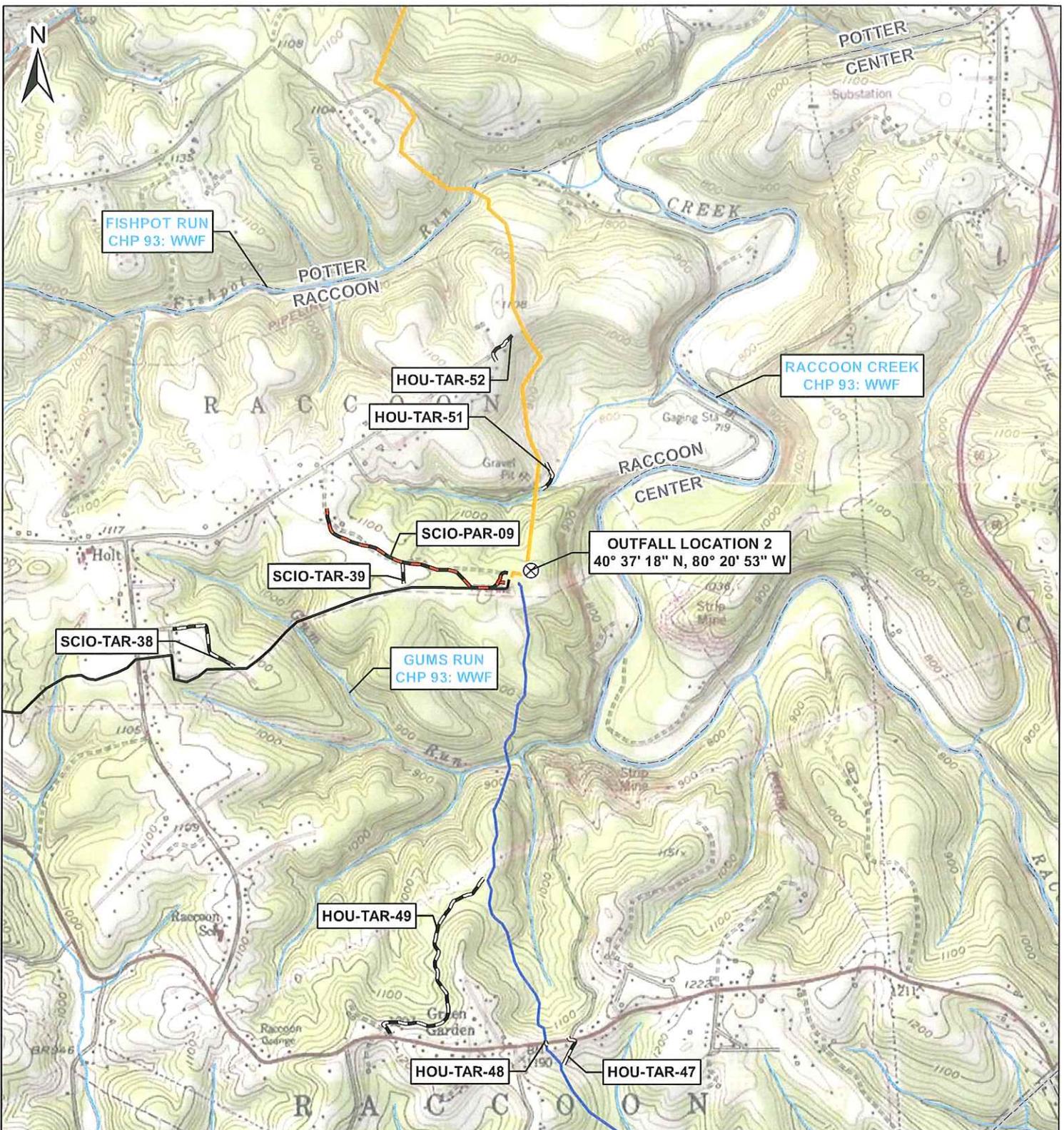
SHELL PIPELINE
 COMPANY LP
 HOUSTON, TX 77079

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

**DISCHARGE
 LOCATION MAP**

**SHELL PIPELINE
 COMPANY LP
 FALCON ETHANE
 PIPELINE SYSTEM**

DRAWN BY: PMH DATE: 7/25/2018
 APPROVED: JCC PROJECT #:



REFERENCE:
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 SOCIETY, I-CUBED.
 COORDINATE SYSTEM:
 UTM83-
 17FT/TRANSVERSE
 MERCATOR

LEGEND

- ⊗ OUTFALL
- CHAPTER 93 STREAM
- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD
- PROPOSED HOUSTON TO JUNCTION PIPELINE
- PROPOSED JUNCTION TO MONACA PIPELINE
- PROPOSED SCIO TO JUNCTION PIPELINE
- ▭ MUNICIPAL BOUNDARY

0 1,000 2,000 4,000 Feet

SHELL PIPELINE
 COMPANY LP
 HOUSTON, TX 77079

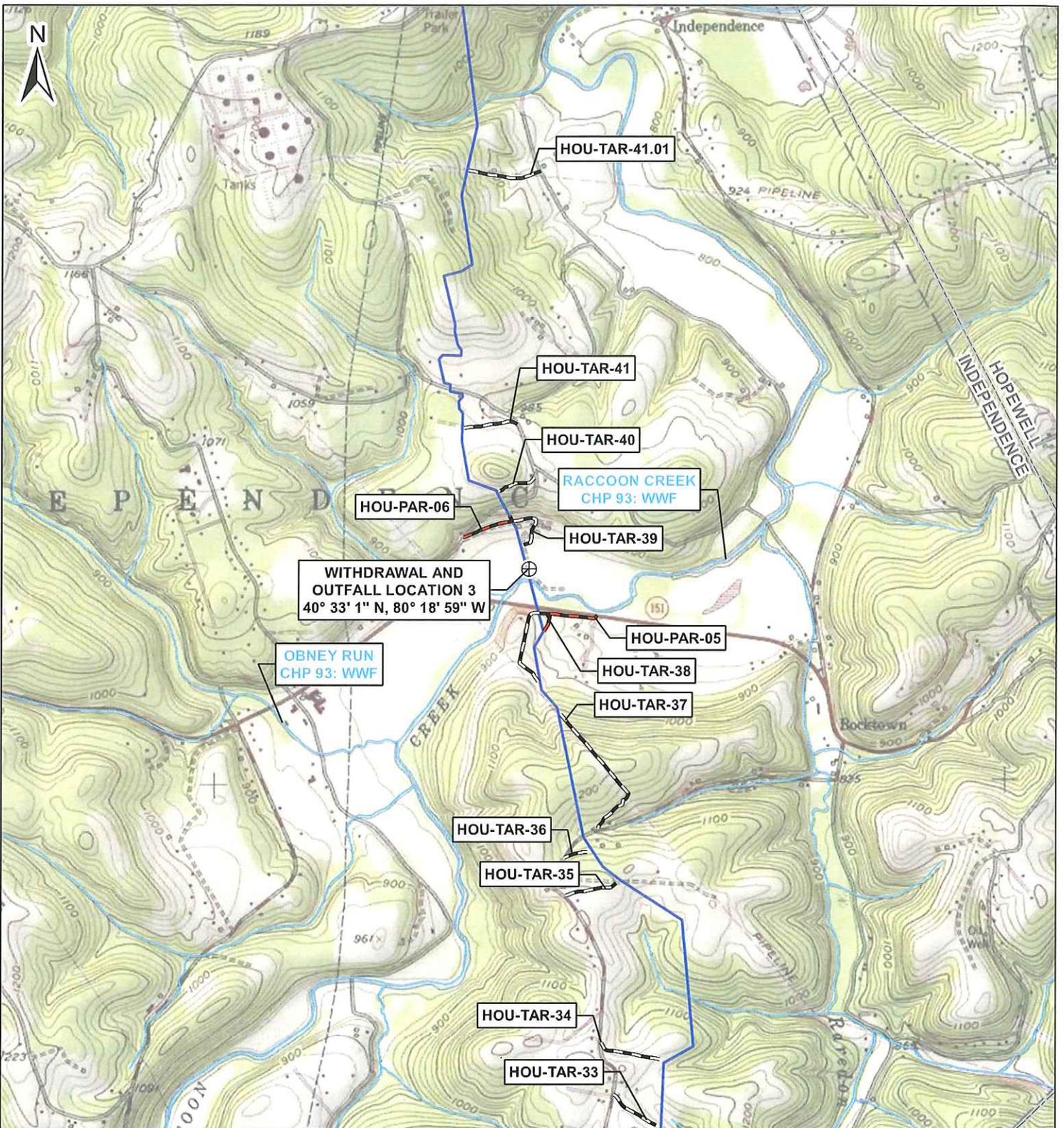
AECOM

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

**DISCHARGE
 LOCATION MAP**

**SHELL PIPELINE
 COMPANY LP
 FALCON ETHANE
 PIPELINE SYSTEM**

DRAWN BY: PMH DATE: 7/25/2018
 APPROVED: JCC PROJECT #:



PROJECT LOCATION



REFERENCE:
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 NATIONAL
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 SOCIETY, I-CUBED.
 COORDINATE SYSTEM:
 UTM83-
 17F TRANSVERSE
 MERCATOR

LEGEND

- WITHDRAWAL AND OUTFALL
- CHAPTER 93 STREAM
- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD
- PROPOSED HOUSTON TO JUNCTION PIPELINE
- MUNICIPAL BOUNDARY




SHELL PIPELINE
 COMPANY LP
 HOUSTON, TX 77079

AECOM

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

**DISCHARGE
 LOCATION MAP**

**SHELL PIPELINE
 COMPANY LP
 FALCON ETHANE
 PIPELINE SYSTEM**

DRAWN BY: PMH DATE: 7/25/2018
 APPROVED: JCC PROJECT #:

WRITTEN DIRECTIONS TO WITHDRAWAL 1 / OUTFALL 1 SITE

1. From the PADEP Bureau of Oil and Gas Management Southwestern Regional Office, head south on Waterfront Drive toward Three Rivers Heritage Trail (0.2 mile).
2. Continue straight onto 30th St Bridge (472 feet).
3. Turn right onto River Avenue (154 feet).
4. Turn left onto 31st St Bridge (164 feet).
5. Turn left to merge onto PA-28 S (0.2 miles).
6. Merge onto PA-28 S (0.9 miles).
7. Take exit 1A for interstate 279 S/Interstate 376 W (0.4 miles).
8. Merge onto I-279 S (0.8 miles).
9. Keep right to stay on I-279 S (0.1 miles).
10. Take the exit onto I-376 W/Fort Pitt Bridge (0.3 miles).
11. Keep left to continue on I-376 W (30.0 miles).
12. Take exit 39 for PA-18 toward Monaca/Shipping Port (0.3 miles).
13. Turn left onto Main St (0.2 miles).
14. Turn left onto PA-18 S (signs for Shippingport/S 18) (2.0 miles).
15. Turn left onto Raccoon Creek Rd (698 feet).
16. Turn left onto access road (330 feet).

WRITTEN DIRECTIONS TO OUTFALL 2 SITE

1. From the PADEP Bureau of Oil and Gas Management Southwestern Regional Office, head south on Waterfront Drive toward Three Rivers Heritage Trail (0.2 mile).
2. Continue straight onto 30th St Bridge (472 feet).
3. Turn right onto River Avenue (154 feet).
4. Turn left onto 31st St Bridge (164 feet).
5. Turn left to merge onto PA-28 S (0.2 miles).
6. Merge onto PA-28 S (0.9 miles).
7. Take exit 1A for interstate 279 S/Interstate 376 W (0.4 miles).
8. Merge onto I-279 S (0.8 miles).
9. Keep right to stay on I-279 S (0.1 miles).
10. Take the exit onto I-376 W/Fort Pitt Bridge (0.3 miles).
11. Keep left to continue on I-376 W (24.6 miles).
12. Take exit 45 toward Aliquippa (0.3 miles).
13. Keep left at the fork, follow signs for Green Garden Road (3.9 miles).
14. Turn right onto Patterson Road (1.4 miles).
15. Turn right onto Holt Road (0.6 miles).
16. Turn right onto Christy Drive (0.2 miles).
17. Turn left onto access road (0.6 miles).

WRITTEN DIRECTIONS TO WITHDRAWAL 3 / OUTFALL 3 SITE

1. From the PADEP Bureau of Oil and Gas Management Southwestern Regional Office, head south on Waterfront Drive toward Three Rivers Heritage Trail (0.2 mile).
2. Continue straight onto 30th St Bridge (472 feet).
3. Turn right onto River Avenue (154 feet).
4. Turn left onto 31st St Bridge (164 feet).
5. Turn left to merge onto PA-28 S (0.2 miles).
6. Merge onto PA-28 S (0.9 miles).
7. Take exit 1A for interstate 279 S/Interstate 376 W (0.4 miles).
8. Merge onto I-279 S (0.8 miles).
9. Keep right to stay on I-279 S (0.1 miles).
10. Take the exit onto I-376 W/Fort Pitt Bridge (0.3 miles).
11. Keep left to continue on I-376 W (21.6 miles).
12. Take exit 48 toward Hopewell (0.3 miles).
13. Turn left onto PA-151 W (3.3 miles).
14. Turn right onto Cowpath Road (0.3 miles).
15. Turn right onto access road (700 feet).

ATTACHMENT D

COMPLIANCE HISTORY

NPDES General Permit for Discharges from Hydrostatic Testing of Tanks and Pipelines (PAG-10)
Application Forms and Documentation, SHELL PIPELINE COMPANY LP, Falcon Ethane Pipeline
System, Potter, Raccoon, and Independence Townships, Beaver County, Pennsylvania

**Shell Pipeline Company LP has no previous compliance history in
this region**

ATTACHMENT E

**HYDROSTATIC DISCHARGE TESTING PLAN AND
FIELD DATA COLLECTION FORM**

**SHELL PIPELINE COMPANY LP (SPLC): HYDROSTATIC DISCHARGE
TESTING PLAN RECOMMENDED OPERATIONAL,
FIELD SAMPLING AND TESTING PROCEDURES FOR PENNSYLVANIA**

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4.0 FIELD SAMPLING AND TESTING PROCEDURES	2
5.0 PARAMETERS	3
6.0 ADDITIONAL RECOMMENDATIONS	3

1.0 PURPOSE

This document addresses the process to discharge water resulting from hydrostatic testing of new natural gas pipelines.

2.0 SCOPE

The following document outlines testing and operational procedure recommendations to help and achieve PAG-10 permit compliance. These recommendations are intended to help and identify a cost and time effective procedure for conducting hydrostatic testing, dewatering and discharge events while meeting PAG-10 permit requirements.

3.0 RECOMMENDED CONTRACTOR OPERATIONAL PROCEDURES

Procedures to be implemented by the contractor for all upcoming dewatering and discharge events:

1. Following the pipeline installation and prior to hydrostatic testing multiple brush pigs followed by foam pigs should be ran to assure the internals are cleaned and free from surface rust. The cleanliness shall be determined by the on-site inspector and Chief inspector.
2. Following the hydrostatic testing, the pipeline should be dewatered into mobile liquid storage tanks to allow for solids settling. If logistically practical, frac tanks present on-site shall be utilized for this purpose, the tanks need to be inspected and the actual tank condition recorded. The water sample will be obtained during or immediately following the dewatering activities and field analysis conducted as per Section 3.0 below.
3. If possible, hydrostatic test water should be decanted from the top of the mobile water storage tanks in order to allow for settle-able solids to sink to the bottom of the tanks, thus reducing the suspended solids concentration in the discharged water.
4. An energy dissipating structure should be constructed as described in the PAG-10 permit – Typical Dewater Structure Details.
5. The reuse of Hydrostatic water should be minimized; hydrostatic water may not be used for more than two events.

4.0 FIELD SAMPLING AND TESTING PROCEDURES

The following field testing procedures will be performed for the discharge events associated with this project:

1. A well-mixed sample of hydrostatic test water should be collected from the sampling point, during dewatering activities. A portion of the collected sample will be field analyzed for:
 - a) pH;
 - b) Dissolved Oxygen (DO);
 - c) Total Residual Chlorine, if the source water is chlorinated.
2. A portion of the collected sample will be submitted to a laboratory for analysis of the following parameters:
 - a) Oil and Grease (hexane extractable);
 - b) Total Suspended Solids (TSS);
 - c) Dissolved Iron.
3. Two samples will be collected during the hydrostatic test water discharge event. The first sample will be collected after approximately one-third of the total volume of water has been discharged and the second sample will be collected after approximately two-thirds of the water has been discharged. Samples may be collected as the water flows through the permeable walls of the energy dissipating structure. Samples will be field and laboratory analyzed as outlined, above.
4. A portion of the post-settling samples should be field analyzed for the following:
 - a) pH;
 - b) Conductivity;
 - c) Temperature;
 - d) TDS;
 - e) DO;
 - f) ORP;
 - g) Total Residual Chlorine, as necessary depending on source of test water (test conducted using a Lamonte Smart 3 calorimeter);
 - h) Dissolved Iron (test conducted using an iron field test kit);
 - i) Total Iron; and
 - j) Turbidity (test conducted using LaMotte 2020e Turbidity Meter).
5. A portion of the 3 post-settling samples will be submitted to the laboratory for analysis of the following parameters:
 - a) Total Iron;
 - b) Dissolved Iron; and
 - c) TSS.
6. Two samples will be collected during the hydrostatic test water discharge event. The first sample will be collected after approximately one-third of the total volume of water has been discharged and the second sample will be collected near the end of the discharge event. Samples will continue to be collected as the water flows through the permeable walls of the energy dissipating structure. Samples will be field analyzed as per procedure outlined in Step 1, above. Samples will be submitted for laboratory analysis, as outlined in Step 2, above.

5.0 PARAMETERS

Based on the PADEP PAG-10 permit, the following effluent limitations and monitoring requirements apply:

New Tanks or Pipelines regardless of future contents (all values expressed in mg/L unless otherwise noted)

Discharge Parameter	Average	Instantaneous Maximum	Sample Type	Monitoring Frequency
Flow (GPM)	Monitor and Report	Monitor and Report	Measured	2/discharge
Duration (HOURS)		Report	Measured	Continuous
Suspended solids	Monitor and Report	60	Grab	2/discharge
Oil and grease	Monitor and Report	30	Grab	2/discharge
Iron	Monitor and Report	7.0	Grab	2/discharge
Dissolved oxygen	***	Minimum of 5.0	Grab	2/discharge
Total Residual Chlorine (1)	Monitor and Report	0.05	Grab	2/discharge
pH (S.T.D Units.)		6.0 to 9.0 at all times	Grab	2/discharge

(1) Only if chlorinated water is used

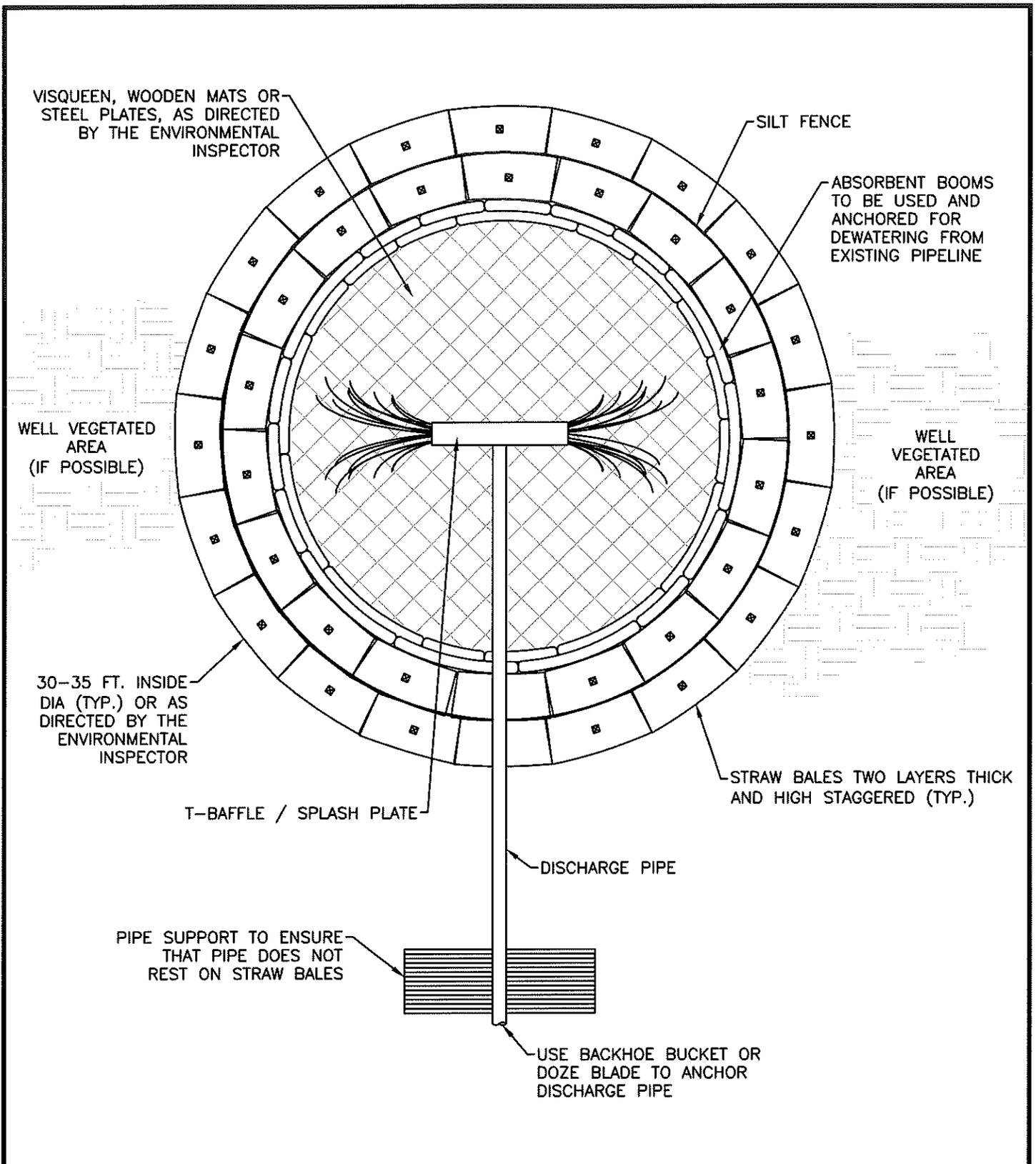
6.0 ADDITIONAL RECOMMENDATIONS

SPLC anticipates that the above recommended field operational procedures, as well as increased water characterization and additional brushing procedures will lead to compliance with all general permit standards.

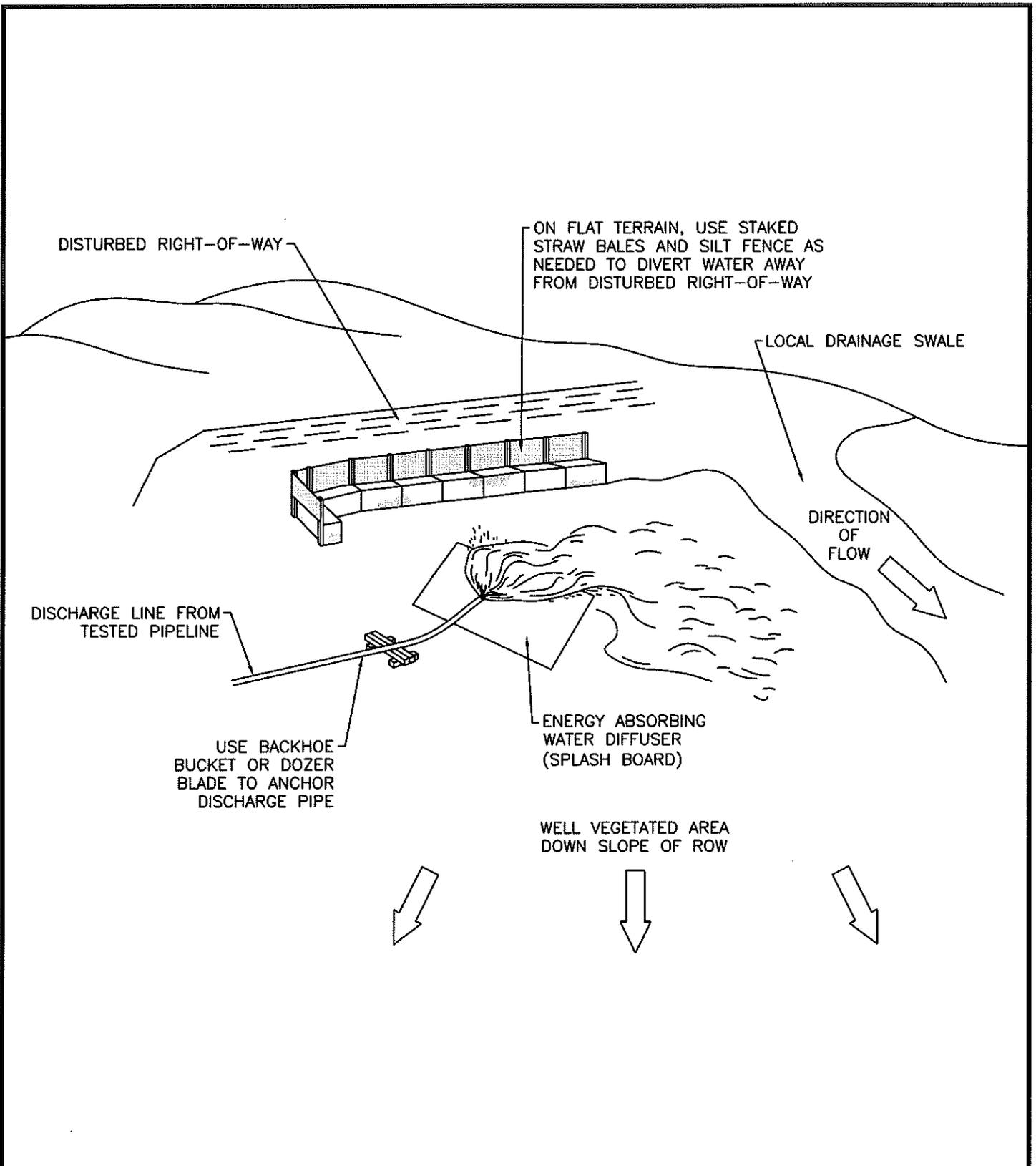
If the water in the mobile storage tanks exceeds any of the field parameters from field testing, then the water shall be hauled off-site for proper disposal.

ATTACHMENT F

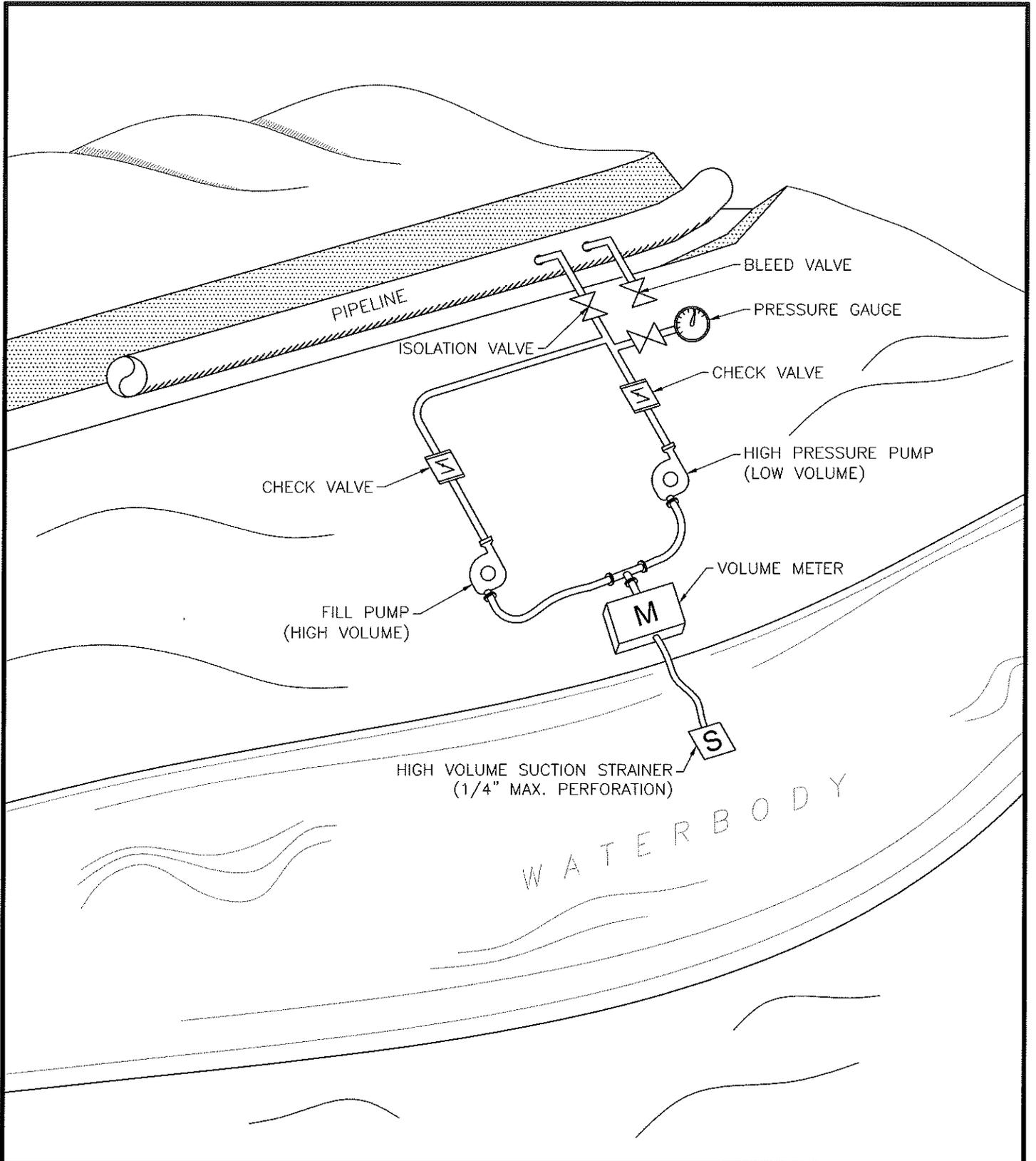
FIGURES



					FALCON ETHANE PIPELINE SYSTEM (AE)	
					SHELL PIPELINE COMPANY LP	
					DET-01 - DETAILS	
					STRAW BALE DISCHARGE	
					ALLEGHENY, BEAVER AND WASHINGTON COUNTIES, PA	
REV	DATE	DESCRIPTION OF REVISION	ES NO.	BY	APP	
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						SPLC-GOM-AE-SA119230
						REV. 0
						BY: IMM



					FALCON ETHANE PIPELINE SYSTEM (AE)	
					SHELL PIPELINE COMPANY LP	
					DET-02 - DETAILS	
					DISCHARGE TO VEGETATED AREA	
					ALLEGHENY, BEAVER AND WASHINGTON COUNTIES, PA	
REV	DATE	DESCRIPTION OF REVISION	ES NO.	BY	APP	
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					BY: IMM	REV. 0



					FALCON ETHANE PIPELINE SYSTEM (AE)	
					SHELL PIPELINE COMPANY LP	
					DET-03 - DETAILS	
					WATER WITHDRAWAL	
					ALLEGHENY, BEAVER AND WASHINGTON COUNTIES, PA	
REV	DATE	DESCRIPTION OF REVISION	ES NO.	BY	APP	DATE: 7/16/2018
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						SPLC-GOM-AE-SA119232
						REV. 0

ATTACHMENT G

PPC PLAN FOR CONSTRUCTION ACTIVITIES

Preparedness, Prevention, and Contingency Plan for Construction Activities

Shell Pipeline Company LP



Falcon Ethane Pipeline System Allegheny, Beaver and Washington Counties, Pennsylvania

AECOM Project #60536988
August, 2018

Submitted By:
Shell Pipeline Company LP
150 North Dairy Ashford Road
Houston, TX 77079

Prepared By:
AECOM
Pittsburgh Office
Foster Plaza 6, 681 Andersen Drive, Suite 400
Pittsburgh, Pennsylvania 15220

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Appendix B Unanticipated Discovery of Contamination Plan	

1.0 GENERAL DESCRIPTION OF THE OPERATION

Shell Pipeline Company LP (SPLC) is involved in the installation of pipelines for the transportation of natural gas from its production fields to larger transmission pipelines (including all of the associated work that is required for the clearing of rights-of-way (ROWs), control of erosion and sediment, control of post-construction stormwater runoff, trench excavation work, pipeline hydrostatic testing, proper backfilling of trenches, installation of access roads, and restoration of the ROWs after completion of construction activities).

After approval, this Preparedness, Prevention, and Contingency (PPC) Plan will be implemented at the Falcon Ethane Pipeline System (Project) construction site in Allegheny, Beaver and Washington Counties, Pennsylvania. The Project site will contain excavation equipment, horizontal directional drilling (HDD) equipment, haulage equipment for supplies, pipe and pipeline handling equipment, pipe cutting and joining equipment, service equipment and various types of transportation equipment for personnel, tools, parts, supplies, fuel, lubricants, etc.

2.0 DESCRIPTION OF EMERGENCY RESPONSE PLAN

The purpose of this PPC Plan is to ensure adequate preparedness for rapid and appropriate response to an event that could affect the safety and well-being of any personnel that are located on-site such as SPLC employees, any worksite contractor, or members of the general public. Additionally, the PPC Plan provides for a course of action to protect the local environment and any assets from an event that interrupts the normal operation at the site and could result in a threat to health and/or the environment if not properly addressed. This PPC Plan will be revised as required for addition of new processes or chemicals at the worksite or if there is a major modification to the worksite activities, emergency response equipment or resources, or responsible personnel.

Copies of the PPC Plan will be located at the field office and the worksite in an appropriate place for the use of Emergency Response Coordinators. A cover page will be provided for the site specific copy which will identify the name of the Project site and local emergency contact numbers.

3.0 ORGANIZATIONAL STRUCTURE FOR DEVELOPING, IMPLEMENTING AND MAINTAINING THE PPC PLAN

3.1 MAIN OFFICE

Shell Pipeline Company LP
150 North Dairy Ashford Road
Houston TX 77079

3.2 EMERGENCY RESPONSE COORDINATOR

Name: Scott Adams
Title: Construction Manager
Office Phone Number: 713.870.5406

Secondary Contact:

Name: Mary Gerschefski

Title: Project HSSE Manager

Office Phone Number: 281.799.5385

3.3 ROLES AND RESPONSIBILITIES

All Staff – Upon becoming aware of a release, immediately advises coworkers if there is any potential or imminent danger to human health and safety. Reports any observed release to the Construction Manager and Environmental Inspector as soon as it is safe to do so.

Construction Manager (CM) – First, ensures safety of all staff. Contacts emergency medical services and other first responders as needed. Implements action items in the specific Project PPC Plan and notifies the Compliance Specialist of a release.

Environmental Inspector (EI) – Either observes or is notified of a release. Visits the release site and documents observations (written report and photographs) regarding the time of the release, the significance, size, characteristics and nature of the release, any resource impacts observed and the measures being taken to respond to the release. Also, notifies the Compliance Specialist of the release.

- Ensures that all Project construction activities, environmental mitigation measures, and operations are conducted in strict compliance with federal, state, and local environmental health and safety regulations and environmental permits.
- Coordinating on-site inspections to confirm the continued proper use, storage, and disposal of on-site construction materials and containers and to ensure that procedures are in place to minimize the potential for pollutants to escape into the environment.
- Providing pollution prevention briefings to the construction contractors at intervals frequent enough to assure adequate understanding of the proper management practices as documented in this plan.
- Handling emergency situations such as employee accidents, fires, and releases of hazardous substances stored at the Project site during construction. The Project Supervisor will coordinate with local fire officials regarding on-site fire safety and emergency response procedures, as required.

Compliance Specialist (CS) – notifies SPLC HSSE, (281.799.5385) of the release. If the volume of the release is greater than one gallon, the CS notifies the appropriate regulatory agency via telephone. If voice mail is encountered, the CS should leave a voice mail, but continue to call until human contact is made.

4.0 MATERIAL AND WASTE INVENTORY

Information in this section is used to evaluate the prevention, containment, mitigation, cleanup, and disposal measures which would be used in the event of a spill, discharge, explosion, or fire. Installation of pipelines is accomplished by use of mobile, heavy machinery, including, but not limited to:

- Dozers;
- Tracked Excavators;
- Refueling Vehicles;
- Material delivery/hauling vehicles;
- Dump trucks; and
- Stringing equipment.

Typical material storage at a pipeline construction site includes diesel fuel, hydraulic oil, bentonite clay for HDD installation methods, and welding gases (oxygen and acetylene). There are no materials known to be used, stored or disposed of at the site that are considered hazardous materials under the Resource Conservation and Recovery Act (RCRA) regulations; therefore, a discharge of hazardous materials is not considered likely. As new materials are used onsite, their pollution potential will be evaluated.

Construction at the Project will require use of lubricating oils, aerosol spray lubricants, paint, and gasoline/diesel fuels and solvents. A mobile fueling truck will be used to transport gasoline/diesel fuels. All other oils and/or chemicals are expected to be delivered in 5-gallon steel containers or 55-gallon drums. Materials will be stored on pallets, located inside one or more secondary containment areas, as needed. Table 1 lists typical construction materials that will be used or stored on site.

Table 1 – List of Typical Materials that will be Used/Stored during Construction

Waste	RCRA Status	Final Disposal
Spill Residue (soil, gravel)	Incident Dependent	Evaluated on a case-by-case basis. May be disposed of at an approved disposal facility
Used Absorbents	Non-Exempt	Transported to a SPLC or contractor consolidation point, drained, and ultimately transported for disposal at an approved disposal facility. A Waste Acceptance Profile will be filed with the disposal facility. Recycling options may be considered when available.
Diesel	NA	Off-spec material is recycled or disposed consistent with applicable regulations.
Lube Oil	NA	Off-spec material is recycled or disposed consistent with applicable regulations.

5.0 SPILL AND LEAK PREVENTION AND RESPONSE

All employees at the site will receive training regarding the implementation of the PPC Plan. The training will address the following items:

- Incident Response Organization;
- Roles and Responsibilities;
- Notification Procedures;
- Evacuation Procedures; and
- Incidental Chemical Spill response.

5.1 INCIDENT RESPONSE

Spill containment and clean up equipment and supplies will be located at the site. Additional equipment and supplies will be available locally when the need arises. In the event that the incident is associated with an Inadvertent Return caused by the construction of a crossing using horizontal directional drilling techniques, All Staff shall refer to the Inadvertent Returns from HDD: Assessment, Preparedness, Prevention and Response Plan, provided under separate cover.

Material Safety Data Sheets (MSDS) sheets will be maintained by the site supervisor at the main field office and contractors will be required to provide MSDS sheets for all materials that they are required to provide. They will have the sheets in their possession while working on-site.

5.2 UNANTICIPATED DISCOVERY OF CONTAMINATION

In the event, during right of way clearing or excavation of the pipeline trench, materials are disturbed or unearthed that could potentially contain contaminants, All Staff shall refer to the Unanticipated Discovery of Contamination Plan provided in Appendix B. This plan provides guidance on identification, testing and disposal of discovered contaminants during construction that are not associated with standard construction activities.

6.0 MATERIAL COMPATIBILITY

All containment devices will be appropriate to the materials they contain. The following practices will be implemented during construction:

- Petroleum
Petroleum products that are not in vehicles will be stored in tightly sealed containers that are clearly labeled. Drip pans will be used during equipment fueling and a supply of absorbent pads will be maintained on hand and utilized, as required.
- Paints
All paints will be kept tightly sealed and neatly stored out of conveyance channels when not in use. Excess paint will be disposed of according to manufacturers' instructions and Pennsylvania Department of Environmental Protection (PaDEP) and local regulations.

- Fertilizers and Dry Products
For materials that must be kept dry (fertilizers, dry ingredients, etc.), indoor storage, temporary shelters, storage trailers, tarpaulins, and other means will be employed.

7.0 INSPECTION AND MONITORING PROGRAM

All sites will be inspected and routinely monitored for leaks or other conditions that could lead to spills or emergency situations. Typical inspections will include the following areas/items:

- Pipes, pumps, valves, and fittings for leaks;
- All mobile equipment used on site for leaks and damage;
- Tanks for corrosion or physical damage;
- Tank support structure and foundations for any deterioration or damage;
- Chemical material storage for any evidence of damage or leakage;
- Evidence of any foreign material in site drainage ditches or erosion controls;
- Good housekeeping practices will be observed;
- Damage to shipping containers will be inspected, noted and addressed as required;
- Leaks, seeps or other problems will be noted and corrected as required; and
- Routine monitoring will be performed to determine the general physical condition of the entire site including liquid levels in tanks, quality of site runoff, quality of any waste to be disposed of etc.

Monitoring will be used to initiate a warning of need for immediate corrective actions to prevent a spill or other emergency condition.

8.0 PREVENTATIVE MAINTENANCE

Construction materials will be stored in a manner that minimizes exposure to precipitation and runoff, where appropriate, or otherwise to prevent the contamination of stormwater. For pollutant materials that must be kept dry (fertilizers, dry ingredients, etc.), indoor storage, temporary shelters, storage trailers, tarpaulins, and other means will be employed. Building component materials that are normally allowed to be exposed to precipitation while being stored will be placed in upland areas away from all storm water conveyances and will be stored and in a manner that will not concentrate runoff. Finally, stockpiles of earthen materials will be stored away from storm water conveyance areas and in a manner that prevents erosion and transport of sediments.

Potentially hazardous wastes (i.e., used motor oils) will be separated from other waste through segregation of storage areas and proper labeling of containers. All hazardous waste will be removed from the site by licensed contractors in accordance with all applicable regulatory requirements and disposed at an approved/licensed facility.

9.0 HOUSEKEEPING PROGRAM

The following housekeeping practices will be followed:

- All material stored on site will be stored in a neat, orderly manner in appropriate containers and, if reasonably possible, under a roof or other enclosure.
- Products will be kept in their original containers with the original manufacturer's label, unless the containers are not re-sealable.
- Original labels and MSDSs will be retained for the period of time that the product is being utilized on site in accordance with all applicable Occupational Safety and Health Administration regulations (29 CFR 1926.33).
- Manufacturer's recommendations for proper use and disposal will be followed.
- An EI will conduct routine inspections to confirm the continued proper use, storage and disposal of onsite materials.
- Substances will not be mixed unless necessary for the construction activity and as recommended by the manufacturer.
- Whenever possible, all of a product in a container will be used before proper disposal of the container.
- Mechanical maintenance (mowing, hand cutting, etc.) will be scheduled as needed within the station during construction so as to facilitate visual inspections and enable the access for maintenance and emergency equipment.
- All employees and/or other handlers of hazardous materials will be properly trained and instructed on the proper reporting and handling requirements.
- All equipment will be maintained in good operating condition and inspected on a regular basis for leaks.
- All equipment will be refueled with extreme care, under continual surveillance and away from Waters of the Commonwealth.
- All equipment operating on the site will have sufficient spill containment equipment on board to provide for prompt cleanup in the event of a release.

The Emergency Response Coordinator will oversee and direct site personnel in the performance of their responsibilities for addressing the emergency situation. Immediately following an emergency, the Emergency Response Coordinator (with PaDEP approval) must provide for treating, storing, or disposing residues, contaminated soil, etc., from an emission, discharge, fire, or explosion at the construction site. The Emergency Response Coordinator must ensure that in the affected areas of the facility, no material incompatible with the emitted or discharged residues is processed, stored, treated, or disposed until cleanup procedures are completed and that all emergency equipment utilized in implementation of the PPC Plan is cleaned and fit for its intended use before operations are resumed. SPLC will notify the Department and the appropriate State or local authorities that the facility is in compliance before operations are resumed in the affected areas of the facility. SPLC will note the time, date and details of an incident that requires implementing the PPC Plan.

Within 15 days after the incident, SPLC will submit a written report on the incident to PaDEP and the United States Environmental Protection Agency (USEPA) regional administrator. The report must be submitted to:

- Director - Bureau of Water Quality Management
PaDEP
909 Elmerton Avenue
Harrisburg, Pennsylvania 17110

- Regional Administrator
USEPA
Region III
1650 Arch Street
Philadelphia, Pennsylvania 19103

- Director - PaDEP Southwest Regional Office
PaDEP
400 Waterfront Drive
Pittsburgh, PA 15222-4745

The report should include the following information:

- Name, address, and telephone number of the individual filing the report;
- Name, address, and telephone number of the installation;
- Date, time, type, and location of incident;
- A brief description of the circumstances causing the incident;
- Description and estimated quantity (by weight) of materials or wastes involved;
- The extent of injuries, if any;
- An assessment of actual or potential threat to human health or the environment and assessment of contamination of land, water, or air, where applicable;

- Estimated quantity and disposition of recovered materials or wastes that resulted from the incident; and
- A description of what actions SPLC intends to take to prevent a similar occurrence in the future.

14.0 COUNTERMEASURES TO BE UNDERTAKEN BY SPLC

The following sections present general spill response practices to be implemented at the Project site, as appropriate.

- **Spill Clean-Up Procedures – General**

Spill clean-up generally involves three steps: containment, removal, and disposal. In the event of a spill, it is very important that the material be contained to the maximum extent possible in order to minimize the effect of the spill and the cost of clean-up. NOTE: ANY SHEEN ON A WATERBODY (STREAM, RIVER, WETLAND) IS A REPORTABLE RELEASE. Once the spill is contained, the spilled material and contaminated material must be collected and physically removed from the area. In some cases, with certain materials, it may be possible to neutralize a spilled material in place without removal. Finally, the spilled material and contaminated soil, clean-up material, etc., must be disposed of properly.

- **Spill Clean-Up Procedures – Specific**

Petroleum and Petroleum-Related Materials: In dealing with a petroleum spill, the immediate response action is to attempt to eliminate the source of the spill as soon as possible. In the event of an accidental spill, emergency measures will be implemented by SPLC to isolate the spilled material and prevent the release from entering surface water or groundwater. Berms may be constructed to contain the spill, and/or excavation equipment may be used to promptly remove impacted soils, concrete, or asphalt. Stormwater collection structures will be either blocked or pumped, if appropriate, to prevent the release to surface water.

Soil that is impacted as a result of an accidental spill or release will be containerized for subsequent disposal. The typical clean-up procedure for the spilled oil is as follows:

- Remove sources of ignition.
- Immediate action is to be taken to contain and limit the extent of the spill using whatever equipment and material are available. Petroleum captured within secondary containment should be recycled to the extent possible. In water, booms should be used to limit the spread of oil along the surface. On land, absorbent materials such as Oil-Dri, straw, sawdust, or soil should be used to soak up any free or flowing oil and limit its spread.
- Remove the petroleum soaked materials using the most effective means, whether it is by hand using shovels or heavy earth-moving equipment. Caution must be exercised in using construction equipment in and around Waters of the Commonwealth to minimize the disturbance. It may be necessary to provide clean fill to reconstruct the affected areas after removal of the petroleum-contaminated soils.

- The petroleum-contaminated material removed in the clean-up operation must be disposed of properly. With the approval of PaDEP, the contaminated material should be hauled to a waste disposal facility that is authorized by permit to accept this type of waste. Confirmatory sampling and laboratory analysis should be conducted in accordance with PaDEP guidelines.

15.0 COUNTERMEASURES TO BE UNDERTAKEN BY CONTRACTORS

SPLC has a contract with several response contractors that can be contacted in the event of a spill/release. Upon assessment of the spill incident, SPLC's CS will call one or more of the contractors to contain and/or remove the contaminated soil if the CS determines that the response cannot be handled in-house.

Table 2 – Local Emergency Response Agencies

Agency	Telephone Number
Ambulance	9-1-1
Fire Department	9-1-1
Police Department	9-1-1
Allegheny County Emergency Management Agency	412-473-1000
Beaver County Emergency Management Agency	724-775-0800
Beaver County Emergency Management Agency	724-228-6911

Table 3 lists federal and state agencies that would be contacted, as appropriate, in the event of an emergency, accident, or chemical release.

Table 3 – Agency Notification List

Agency	Telephone Number
PaDEP Southwest Regional Office	412-442-4000
Pennsylvania Emergency Management Agency	717-651-2001
EPA Region III Hotline	215-814-5000
Federal National Response Center (NRC)	800-424-8802
US Coast Guard National Response Center	800-424-8802
Pennsylvania Fish and Boat Commission	717-477-5717
Chemical Transportation Emergency Center	800-424-9300
Regional Poison Information Center	800-222-1222



16.0 CHAIN OF COMMAND

Field Personnel discover a release/spill/major incident.

Is this an immediate threat?

No

Field Personnel takes appropriate emergency actions in responding to release.

Field Personnel notifies Construction Manager and/or Environmental Inspector.

EI or CM notifies Shell HSSE Manager. EI notifies State and Local Emergency Response Services.

HSSE Manager, CM and EI prepares spill report and documentation within 72 hours of incident.

Yes

Field Personnel immediately contacts local emergency services
 Contact Environmental Inspector as soon as practical.

HSSE manager prepares monthly release report summary and provides information and inserts into internal HSSE system.

HSSE Manager finalizes the written report to the appropriate federal agencies with written follow up.

HSSE manager determines if a DOT 7000-1 or 7100.2 report form is required.

HSSE manager prepares a DOT 7000-1 or 7100.2 report form and files report. If additional information is received after the initial report, the supplemental information is filed within 30 days of receipt.

17.0 EVACUATION PLAN FOR INSTALLATION PERSONNEL

Personnel that encounter an incident or event while working on this Project site will call the EI immediately to report the incident. Additionally, emergency services will be notified if necessary. All other on-site employees and contractors will be notified and any persons that are located in the vicinity of the incident will be removed from the area. Finally, SPLC will take steps to account for the total number of persons involved at the worksite. All persons will remain grouped together at a safe distance from the site until emergency services or the Emergency Response Coordinator arrives.

The following key points will be adhered to:

- All work not associated with emergency containment will be STOPPED;
- The immediate area will be cleared of all non-emergency response personnel. All others will remain at the gathering point;
- The Emergency Response Coordinator's instructions WILL be followed;
- All personnel will be required to remain with the group until instructed otherwise by the Emergency Response Coordinator or other SPLC representatives;
- Ingress and egress will be facilitated for all emergency vehicles by SPLC personnel; and
- Work WILL NOT resume at the site until proper notification has been provided by SPLC personnel.

18.0 IMPLEMENTATION SCHEDULE

If any area of this Plan needs to be developed further, or is incomplete, the item will be revised or completed in a timely manner and included in a revised PPC Plan that will be submitted to the PaDEP.

Appendix A

Environmental Incident Report Form

APPENDIX A

ENVIRONMENTAL INCIDENT REPORT

Location (Facility/Specific Location):	
Date Incident Occurred:	
Time Incident Occurred:	
Type of Incident (Check all that apply):	
<input type="checkbox"/> Contaminated Ground Water/Soil <input type="checkbox"/> Oil Spill <input type="checkbox"/> Fish Kill <input type="checkbox"/> PCB Spill <input type="checkbox"/> Hazardous Substance Spill/Release <input type="checkbox"/> Storage Tank (leak or other problem) <input type="checkbox"/> Migratory Bird <input type="checkbox"/> Wildlife Concern <input type="checkbox"/> Other _____	
If Spill:	
Type of Substance:	
Origin of Substance:	
Amount (if known):	
Spill On (floor, ground, water):	
Oil Spill to Water or Storm Drain (If any selection is entered, written notice to EPA is due within 60 days)	<input type="checkbox"/> Spill greater than 1000 gallons <input type="checkbox"/> Two spills > 42 gal. within a 12 month period Date of Previous Spill _____
Description of Incident (include cause, if known, specific location, amount, duration, and impact on environment)	
Immediate Action/Cleanup Procedures	

Action Taken or Planned to Prevent Recurrence			
Notifications Made			
	Name	Date	Time
Emergency Response Coordinator			
Other facility Personnel			
Environmental Services			
State Agency			
National Response Center			
Other (i.e., Local Agency)			
Regulatory Personnel on the Scene (Name and Agency)			
Site Contact for Additional Information (Name and Title)		Telephone Number (With Area Code)	
Incident Reported By (Name and Title)		Telephone Number (With Area Code)	
Form Completed By (Signature)		Date (MM/DD/YYYY)	

Appendix B

Unanticipated Discovery of Contamination Plan



Shell Pipeline Company LP

Falcon Ethane Pipeline System

Unanticipated Discovery of Contamination Plan

Project	Falcon Ethane Pipeline System
Document Title	Unanticipated Discovery of Contamination Plan
Document Number	T.14042-DISCOVERY-CONT-PLN-0001
Document Revision	0
Document Status	Issued for Use
Document Type	HX 7506
Issue Date	2018-07-27
Expiry Date	None
Security Classification	Unrestricted

1. INTRODUCTION

The purpose of this Plan is to provide Shell Pipeline Company LP (SPLC) and Contractors (Project Team) with guidelines for ensuring the proper management of unanticipated discovery of hazardous materials (contamination) during construction of the Falcon Ethane Pipeline Project (Project), in an effort to minimize hazards to human health or the environment. Activities associated with construction of the pipeline (e.g. clearing of the Right of Way, horizontal directional drilling (HDDs), and required excavation, etc.) will commence during the fourth quarter of 2018.

This Plan will be followed in the event that there is an unanticipated discovery of hazardous materials (contamination) during construction activities, which is unrelated to the Project. During the Right of Way (RoW) acquisition process, SPLC interviewed property owners, and reviewed readily available information which would indicate the potential presence and risk of contaminants within the Falcon construction areas, and concluded there there is no evidence that construction activities will occur in a current or previous industrial location where legacy spills or releases of hazardous materials would be encountered.

2. LOCAL RESPONSE AND NOTIFICATIONS

In the event that such materials are encountered during construction that give the Project Team reason to suspect the presence of legacy spills or releases (e.g., malodorous soils and/or visible staining, sheen or otherwise inconsistent with soil expectations) SPLC will suspend field activities at the location of discovery and report the encounter to the relevant regulatory agencies as described further below. SPLC will also coordinate with regulatory agencies to determine whether and what types of limited response efforts (e.g., potential sampling and management of materials at offsite facilities) would occur in accordance with applicable regulatory requirements and the attached *Waste and Recoverable Material (WRM) Procedure, Revision 2* (November 14, 2016).

Depending on the nature of the discovery, state or local emergency response measures may be required as per the Contractor's Emergency Response Plan¹ to manage the situation. All surrounding field personnel will be removed from the potentially contaminated area until response activities have been initiated, regulatory agencies have been notified, and, where necessary, the types and levels of potential contamination can be verified as per the WRM Procedure (Attachment 1). Without exception, personnel safety is first priority.

¹ Available following contractor selection

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The following internal and external notifications will be made as soon as practicable but no later than 24 hours from time of discovery:

- Contractor Construction Supervisor to notify Shell Chief Inspector
- Shell Chief Inspector to notify Shell Construction Manager
- Shell Construction Manager to notify Shell Project Manager
- Shell Project Manager or designee to notify the following state agencies, as applicable to location of discovery:

State	County	Waste Type	Name	Title	Phone
PA	All	All	Scott Swarm	Waste Management Program Manager, DEP Southwest Regional Office	412-442-4125
OH	Jefferson	Solid Waste	Sara Anderson	Materials and Waste Management Inspector	740-380-5219
OH	Jefferson & Harrison	Hazardous Waste	Scott Bergreen	Environmental Supervisor	740-380-5288
OH	Harrison	Solid Waste	Nathan Johnson	Materials and Waste Management Inspector	740-380-5439
OH	Carroll	Solid Waste	Colum McKenna	Materials and Waste Management Inspector	330-963-1263
OH	Carroll	Hazardous Waste	Natalie Oryshkewych	Environmental Manager	330-963-1267
WV	All	Solid Waste	Chris Dudek	Environmental Inspector	304.238.1220 ext 3528 (office) 304.389.7383 (cell)
WV	All	Hazardous Waste	Mark Smith	Environmental Inspector	304.238.1220 ext 3521 (office) 304.789.1181 (cell)

- Shell Project Manager or designee to notify GHD, SPLC's authorized consultant for Waste and Recoverable Material Management to coordinate sampling, testing, documentation, etc. as described below. GHD Contact: Jamie Geil (Office: 512-777-5835, Mobile: 512-461-7424, Email: jaimgeil@ghd.com).

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3. SAMPLING AND SEGREGATION

When necessary, a representative sample will be collected and analyzed by an approved lab for parameters as described in the attached WMR Procedure. The remaining material will be segregated and stored in accordance with the WMR Procedure until the results of the analytical testing are complete and proper disposal has been arranged.

Approved local labs for sample testing include:

Pace Analytical
 1638 Roseytown Road,
 Suites 2,3,4
 Greensburg, PA 15601
 Contact: Brian Schaffner
 Account Executive
 Phone: (412) 559-2104 Cell
 Fax: (724) 850-5601
Brian.Schaffner@pacelabs.com

TestAmerica Pittsburgh
 301 Alpha Drive
 RIDC Park
 Pittsburgh, PA 15238
 Contact: Dominic Nestasie
 Manager of Project Management
 Phone: 412.963.7058
dominic.nestasie@testamericainc.com

3.1. Sampling Results and Material Handling

If the results of the analytical testing indicate that the material is uncontaminated, construction will resume, and segregated materials may be reused as a part of the construction process. Note in Pennsylvania, before the material is reused in the RoW it will be confirmed that it meets the levels listed in Table GP-1a from Residual Waste Beneficial Use Permit WMGR096 per the PADEP Management of Fill Policy 258-2182-773 (Attachment 2 of this Plan).

If the results of the analytical testing indicate that the materials are contaminated and unrelated to Project activities, the Shell Project Manager or designee will notify the applicable state agencies and coordinate response activities, as necessary. The Project team may attempt to identify the responsible party for the contamination to facilitate disposal. Disposal of contamination by the Project will be limited to enable construction and will be in accordance with the WRM Procedure,

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including addressing requirements for the generating state and receiving state. Disposal sites have been identified for the Project and are provided in Attachment 3 of this plan.

Attachment 1: Waste and Recoverable Material (WRM) Procedure


WRM 11-14-16.pdf

Attachment 2: PADEP Requirements for Regulated Fill

Title	Attachment
PADEP Management of Fill Policy 258-2182-773.	 PADEP MANAGEMENT_OF_I
Table GP-1a from Residual Waste Beneficial Use Permit WMGR096	 TableGP-1a from WMGR096.pdf

Attachment 3: Approved Disposal Sites

The following site is approved for disposal of hazardous and non-hazardous materials.

Name	Street Address	City	State	Zip Code
Cycle Chem Inc.	550 Industrial Drive	Lewisberry	PA	17339

The following sites are approved for disposal of hazardous materials.

Name	Street Address	City	State	Zip Code
Heritage Thermal Services	1250 St. George St.	East Liverpool	OH	43920
Ross Incineration Services	36790 Giles Rd	Grafton	OH	44044

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The following sites are approved for disposal of non-hazardous materials.

Name	Street Address	City	State	Zip Code
Advanced Disposal Greentree Landfill	635 Toby Road	Kersey	PA	15846
Republic Services Inc. Carbon Limestone Landfill	8100 South Stateline Road	Lowellville	OH	44436
Waste Management Inc.-American Landfill	7916 Chapel Street SE	Waynesburg	OH	44688
Waste Management Inc.-Arden Landfill	100 Rangos Lane	Washington	PA	15301
Waste Management Inc.-Mahoning Landfill	3510 East Garfield Rd.	New Springfield	OH	44443
Waste Management Inc.-Northwest Landfill	1436 West Sunbury Road	West Sunbury	PA	16061
Waste Management Inc.-Phoenix Resources Landfill	782 Antrim Road	Wellsboro	PA	16901

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