

#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION **BUREAU OF CLEAN WATER**

#### **PAG-02** NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES NOTICE OF INTENT (NOI)

	DEP / CCD USE ONLY
Date Received: 1/15/2021  □ Project Eligible □ NOI Complete  Date Resubmission Received:  Date Determined Complete:  Coverage Effective Date:	Permit ID: PACO90431  Date of: Return Withdrawal Denial  Issuance Date:  Coverage Expiration Date:
	GENERAL INFORMATION
1. NOI Type: ⊠ New ☐ Renewal ☐	Major Amendment
2. Primary NAICS Code: 486910	3. Additional NAICS Codes:
4. Project Description: Relocation of an Exis	sting 14-Inch Petroleum Products Disalia No.
5. Site Restoration Project	
6.   Common Plan of Development or Sale	No. phases: No. phases complete:
AF	PPLICANT INFORMATION
Sunoco Pipeline LP  3. Individual Last Name First Name	e MI Suffix
Armstrong Colleen	
. Mailing Address Line 1 100 Green Street	Mailing Address Line 2
. Mailing Address Line 1 100 Green Street . Address Last Line – City State Marcus Hook PA	ZIP+4 Country 19061-4800 Delaware
Mailing Address Line 1  100 Green Street  Address Last Line – City State  Marcus Hook PA  Applicant Contact Last Name First Name	ZIP+4 Country 19061-4800 Delaware
Mailing Address Line 1  100 Green Street  Address Last Line – City State  Marcus Hook PA  Applicant Contact Last Name First Name	ZIP+4 Country 19061-4800 Delaware MI Suffix Ext
Mailing Address Line 1  100 Green Street  Address Last Line – City State  Marcus Hook PA  Applicant Contact Last Name First Name  Armstrong Colleen  Applicant Contact Title 8. Phone	ZIP+4 Country 19061-4800 Delaware MI Suffix Ext

	ELIGIBILITY INFORMATION							
1,,	1. Stormwater discharges from the project site will not drain to surface waters, including wetlands, that are classified for special protection.							
2,	The applicant is not in vio schedule of compliance, cosites or facilities owned or of ability or intention to cocontinuing violations.	r other a lack	⊠ True	☐ False				
3.	The PNDI receipt indically "Avoidance Measures" "Avoidance Measures" not agencies are attached to coverage.	act" or ctional	⊠ True	☐ False				
4. Soils in the area of the earth disturbance are not contaminated at levels exceeding residential or non-residential medium-specific concentrations (MSCs) in 25 Pa. Code Chapter 250 at residential or non-residential construction sites, respectively, unless a site-specific standard has been met or evidence is provided that the contamination is naturally occurring or the result of widespread atmospheric deposition.						☐ False		
5. Stormwater will not be discharged to MS4 or CSO systems or will be discharged to MS4 or CSO systems with no net change in volume, rate or water quality or will be discharged to MS4 or CSO systems with a net change (increase) and written consent of the MS4 or CSO permittee.						☐ False		
6.	6. All fill material imported to the project site will be clean fill or will be regulated fill that has been authorized for use on the project site by DEP's Waste Management Program or will be used on an Act 2 site in accordance with standards established by DEP's Land Recycling and Environmental Remediation Standards Program.							
7.	7. Stormwater discharges will not occur that would contain toxic or hazardous pollutants as defined in sections 307 and 311 of the Clean Water Act (33 U.S.C. §§ 1317 and 1321) or any other substance that – because of its quantity, concentration, or physical, chemical or infectious characteristics – may cause or contribute to an increase in mortality or morbidity in either an individual or the total population, or pose a substantial present or future hazard to human health or the environment when discharged into surface waters.							
8.	8. Stormwater will not be discharged to impaired waters caused by siltation, suspended solids, turbidity, water/flow variability, flow modifications/alterations, or nutrients, or stormwater will be discharged to impaired waters but the applicant will implement non-discharge alternative(s) or ABACT BMPs.							
9.	9. Stormwater will not be discharged to waters with an EPA-approved or established TMDL for siltation, suspended solids, or nutrients, or will be discharged to TMDL waters (including the Chesapeake Bay) but the applicant will implement non-discharge alternative(s) or ABACT BMPs and any applicable wasteload allocation (WLA) will be achieved.							
		EXISTING	PERMITS					
lder 5 ye	Identify all environmental permits issued by DEP/CCD or EPA or are pending for this facility/project site within the past 5 years.							
	Type of Permit Permit No. Date Issued				Issued B	Ву		
GF	P-05 Utility Line Crossing	GP050901220-031	Pending	PAD	EP Southea	st Office		

1.	Project Site Name	14-Inch Twin Oaks to Newark Creek Pipeline Relocation Por	Jacobs ject	2.	Total Project Site	Area	4.904	acres
3.	Project Site Impervio	ous Area – Pre-Construction	0.079	acres	Percent of 1			
4.		ous Area – Post-Construction	0.079	acres	Percent of T		1.61	<b>%</b>
5.		wetland features are present wi			e. X Yes		1.61	%
	☑ If Yes, the wetlar	nd determination is attached to t	he NOI.	roject Oit	e. 🗵 Yes 📋	No		
6.	County Name	Municipality Name			City	Boro	Twp	State
	Bucks	Upper Makefield			Π		⊠	PA
7.	County Name	Municipality Name			City	Boro	Twp	State
					Ó			PA
8.	Site Location Address	S			<del></del>			
	106 OAKDALE AVE							
9.	Site Location City	State		ZIP	·+4			
-	WASHINGTON CROS	SSING PA		189	977-1430			
		OPERAT	OR INFO	RMATIO	N			
	Operator Name:			2.	Contact Name:			
<b>3</b> .	Operator Address:			- 4.	Operator Phone:			
	Operator City, State, Z	lip:		<b>—</b> ,:	r areas in the field.	-		
. (	Operator's Role in Pro	ject: General Contractor	☐ Con	− sultant [	☐ Excavation Cor		٦	
. (	Operator's Responsibi	lities:				illactor [	_l Other	
. (	Operator Name:			2.	Cantast N			
. (	Operator Address:			<del></del>	Contact Name:			
C	Operator City, State, Zi	p:		4.	Operator Phone:			
	perator's Role in Proj		Con.	*:	1 -			
	perator's Responsibili		☐ Cons	sultant [	Excavation Conf	ractor [	Other	
Т	otal Earth Disturbance	EARTH DISTUR			ATION			
		1.501 20103	213,6	\$18 sf				
	re-Construction Imper							
	ost-Construction Impe							
	re-Construction/Prese eadow		5.	Post-Con	struction Land Use	e(s):		
_		98.4 %	-	meadow			98.	4 %
1111	pervious	1.6 %		mperviou	S		1.6	%
		%						%
		<u></u>						
			_					70
		n E&S Plans and PCSM Plans pints, E&S and PCSM BMPs, ar					oundaries	, surface
Re		n E&S Plans and PCSM Plans pints, E&S and PCSM BMPs, ar tude at the center of the propos					oundaries	, surface

EARTH DISTURBANCE INFORMATION	N (CONTINUED)			
9. There will be off-site construction support activities.	] No			
10. If Yes, identify the nature of known off-site support activities whose dis	turbance is included in #1	, above:		
Description of Off-Site Support Activity	Distance from Site	Disturbance Area		
	mi	acres		
	mi	acres		
11. Identify any other off-site support activities whose disturbance is not in	cluded in #1, above (see	instructions).		
Description of Off-Site Support Activity	Distance from Site	Disturbance Area		
	mi	acres		
	mi	acres		
12. Check the appropriate box concerning fill material (see instructions):				
☐ No fill material is expected to be imported to the project site.				
It is expected that fill will be needed for this project. The source environmental due diligence when identified.	of fill has not yet been de	etermined but will undergo		
It is expected that fill will be needed for this project. The app determined the material to be clean fill. DEP's online Certification	licant has identified the s n of Clean Fill form has be	source of the fill and has een submitted.		
It is expected that fill will be needed for this project, which is lost standards and will be utilized in accordance with DEP standards	ocated on a site that is bunder that program.	peing remediated to Act 2		
It is expected that fill will be needed for this project. The app determined it to be regulated fill. The regulated fill is authorized General Permit No. WMGR096 authorization dated:	licant has identified the	source of the fill and has ler a Waste Management		
It is expected that fill will be needed for this project, which is not and has determined that it does not meet criteria for clean fill. regulated fill from DEP's Waste Management Program.	on an Act 2 site. The app The applicant is seeking	licant has identified the fill gauthorization to use the		
13. The site is enrolled in DEP's Act 2 Program.		☐ Yes ☒ No		
14. The site was previously enrolled in DEP's Act 2 Program and cleanup	standards have been met	. 🗌 Yes 🖾 No		
15. Is Act 537 sewage planning approval needed for this project?	es 🛛 No			
The Act 537 approval letter is attached to the NOI. Yes N	o (will be obtained before	construction)   N/A		
16. A Chapter 105 permit or authorization is required.  ☐ Yes ☐ N	o			
17. If Yes, identify the necessary authorization. $\  \  \  \  \  \  \  \  \  \  \  \  \ $	eneral Permit 🔲 Wai	ver		
18. Other DEP/CCD permits or authorizations are required.    Yes	☐ No			
19. If Yes, identify the necessary authorizations. New Jersey NPDES District.	Permit From Mercer C	county Soil Conservation		
COMPLIANCE HISTOR	Υ			
Was/Is the applicant, facility owner or operator in violation of any DEP reschedule of compliance at this or any other facility or project site within the		⊠ Yes □ No		
If "Yes," list each permit, order or schedule of compliance and provide curprovide information on all permits.	rrent compliance status.	Use additional sheets to		
Permit Program: SEE ATTACHED APPENDIX	Permit No.:			
Brief Description of Non-Compliance: SEE ATTACHED APPENDIX				
Steps Taken to Achieve Compliance	Date(s) Compliance A	chieved		
SEE ATTACHED APPENDIX	SEE ATTACHED APP	ENDIX		
SEE ATTACHED APPENDIX	SEE ATTACHED APP	ENDIX		
Current Compliance Status:				

			STORMWATER DISCH	ARGE INFORM	IATION			
1. List all st	tormwater discha	arge points <u>during c</u>	onstruction and provide the information	ation requested	below (see instructions).		Not Applica	able
Discharge	LATITUDE	LONGITUDE		RE	CEIVING WATERS			17X 1 X 2
Point No.	Degrees	Degrees	Name of Receiving Waters	Ches. Bay?	Non-Surface Waters	Ch. 93 Class.	Impaired?	TMDL?
2. List all st	tormwater discha	irge points <u>after con</u>	struction and stabilization are co	mplete and prov	vide the information requi	ested below.	Not Applica	ıble
Discharge	LATITUDE	LONGITUDE		RE	CEIVING WATERS			
Point No.	Degrees	Degrees	Name of Receiving Waters	Ches. Bay?	Non-Surface Waters	Ch. 93 Class.	Impaired?	TMDL?
			18					
3. Will any	of the points ider	ntified above dischar	ge to a storm sewer system?	Yes 🛛 No	Is the storm sewer	an MS4 or CSS?	☐ Yes	☐ No
Name of	storm sewer owi	ner/operator:			Discharge points d	ischarging to stor	m sewer:	
4. Identify a	and describe all n	non-stormwater disch	narges that are expected to occur du	uring permit cove	erage. Describe the frequ	uency and volume	e of all such dis	scharges.
⊠ No n	on-stormwater di	ischarges are anticip	ated.					
5. Will there	e be any new or i	ncreased discharge	to non-surface waters prior to reach	ning surface water	ers? 🗌 Yes 🗵	No No		
If Yes, th 2) provid	ne applicant is ex le for adequate E	pected to 1) secure &S controls to preve	legal authority for the non-surface vent accelerated erosion.	water discharge	if the discharge will be to	property not ow	ned by the app	olicant, and

	STORMWATER DISCHARGE INFORMATION (CONTINUED)
6.	For each discharge to an impaired water (with or without a TMDL, including Ches. Bay) complete the information below.
	Discharge Point No.:
	Stormwater will be managed using:   Non-discharge alternative   ABACT BMP(s)
	Description of E&S BMP(s):
	Description of PCSM BMP(s):
	WLA(s) in a TMDL apply to this discharge:
	If Yes, describe how the discharge will comply with the WLA(s):
_	Discharge Point No.:
	Stormwater will be managed using:   Non-discharge alternative  ABACT BMP(s)
	Description of E&S BMP(s):
	Description of PCSM BMP(s):
	WLA(s) in a TMDL apply to this discharge:
	If Yes, describe how the discharge will comply with the WLA(s):
	Discharge Point No.:
	Stormwater will be managed using:   Non-discharge alternative   ABACT BMP(s)
	Description of E&S BMP(s):
	Description of PCSM BMP(s):
	WLA(s) in a TMDL apply to this discharge:
	If Yes, describe how the discharge will comply with the WLA(s):
	Discharge Point No.:
	Stormwater will be managed using:   Non-discharge alternative   ABACT BMP(s)
	Description of E&S BMP(s):
	Description of PCSM BMP(s):
	WLA(s) in a TMDL apply to this discharge:
	If Yes, describe how the discharge will comply with the WLA(s):
	Discharge Point No.:
	Stormwater will be managed using:   Non-discharge alternative   ABACT BMP(s)
	Description of E&S BMP(s):
	Description of PCSM BMP(s):
	WLA(s) in a TMDL apply to this discharge:
	If Yes, describe how the discharge will comply with the WLA(s):

Applicant Signature

CERTIFICATION F	FOR PAG-02 APPLICANTS
supervision in accordance with a system designed to a information submitted. Based on my own knowledge a gathering the information, the information submitted is, to The responsible official's signature also verifies that the ac E&S Plan, PPC Plan, PCSM Plan, and other controls are land effluent limits are attained. I am aware that there are	related attachments were prepared by me or under my direction or assure that qualified personnel properly gather and evaluate the and on inquiry of the person or persons directly responsible for the best of my knowledge and belief, true, accurate, and complete. Civity is eligible to participate in the NPDES permit, and that BMP's, being or will be, implemented to ensure that water quality standards a significant penalties for submitting false information, including the iolations pursuant to Section 309(c)(4) of the Clean Water Act and
I grant permission to the agencies responsible for the per the project site for inspection purposes. I will abide by th permit issuance.	mitting of this work, or their duly authorized representative to enter e conditions of the permit if issued and will not begin work prior to
(For individuals no indication of title is necessary, choose t	he box below. All others proceed to the next paragraph)
☐ Individual; proceed to signature portion.	
is responsible for decision-making regarding environmental more manufacturing, production, or operating facilities of which govern the operation of regulated facility including recommendations, and initiating and directing other cenvironmental compliance with environmental laws and response to the control of the control	Code § 92a.22 and 40 CFR §122.22 and that I am the person who I compliance functions for Enter Entity name, the manager of one of the applicant and am authorized to make management decisions having explicit or implicit duty of making major capital investment comprehensive measures to assure the applicant's long term regulations; and I am responsible for ensuring that the necessary te and accurate information for permit application requirements.
(choose one of the following; not applicable for individuals)	:
☐ The responsible corporate officer ☐ president ☐ vice Corporation/Company	president  secretary treasurer of
Authority" filed with the Pennsylvania Department of St the person listed in the LLC's most current and active	individually listed on a "Certificate of Limited Liability Company tate as a position/person with the authority to bind the company OR operating agreement as having the authority to bind the company. bility Company Authority" or operating agreement. If the operating aragraph containing the applicable information.
☐ The general partner of partnership/LP/	LLP
☐ The principal executive officer or ranking elected official	Il of Municipality/State/Federal/other public agency
Power of Attorney/delegation of contractual authority (be provided) for Sunoco Pipeline, L.P. Entity name	documentation supporting delegation of contracting authority must
Nicholas J. Bryan	Sr. Director - E&C Environmental
Applicant Name (type or print legibly)	Official Title

01/12/2021

Date Signed

#### **CERTIFICATION FOR OPERATORS**

I understand that I am assuming joint and severable responsibility, coverage, and liability under the permit for all duties, responsibilities, and non-compliance with the Chapter 102 permit, as a co-permittee of this permit coverage. I certify that I will implement the requirements of the permit and the approved design plans and will notify the permittee and the agency that issued permit coverage prior to implementing changes to the plans.

Operator Name (type or print legibly)	Official Title	
Operator Signature	Date Signed	
Operator Name (type or print legibly)	Official Title	
Operator Signature	Date Signed	

#### RECEIVED

3800-PM-BCW0406a Rev. 12/2019 E&S Module 1



# COMMONNEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

# NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES EROSION AND SEDIMENT CONTROL (E&S) MODULE 1

Ap	plicant:	Sunoco Pi	peline LP	Project Site	Name:		Inch Twin Oaks to eek Pipeline Reloo		Jacobs
Su	rface Wate	er Name(s):	Delaware River, Hough's Creek	Surface Wa	ter Use	(s):	WWF, MF		
			E&S PLA	AN INFORMA	ΓΙΟΝ				
1.	Describe	the existing	topographic features of the proje	ct site and the	immedia	ate su	urrounding area.		
	The Exis	sing projec n of the str	t site is a suburban resident eam banks to Hough's creek ar	tial area that nd the stream	has les banks t	ss the	an a 5% slope t Delaware river.	hroughou	it, with the
2.	Complete	the following	ng table for soils present at the pr	oject site.	**				
	Map Unit Symbol		Map Unit Name	Acr	es H	SG	% of Disturbed Area	Depth (ft)	Hydric
	AIA	A	Aiton Gravelly Loam, 0 to 3 perd slopes	cent 3.9	7	A	80.66%	5.2	
	Во	В	Bowmansville - Knauers Silt Loa	ams 0.3	1 (	/D	6.37%	5.4	
DaA Delaware Fine Silty Loam, 0 to 3 percent Slopes 0.64 A					12.96%	7.25			
	Dewater should s construc  Unstable The instathe projecontractor	top to avoition is necessary  Excavation is stored area. Tropin accordance in accordan	ater using pumped water filter d flooding risk. In areas where essary.  The Walls been excavation side slopes and ench boxes and sloping-back lance with OSHA regulations.	e ponding bed d walls is anti of the trench	cipated walls	due will I	sistent problem, to the composition to the composition on the performed at the composition of the compositio	use mud on of the s he discre	mats when soils within etion of the
	on a flat, drainage  Dust  Disturbed traveled a	vegetated channels to d workspace	dewatered as necessary using area. The down slope side of allow for natural filtering of the second	f the dewater ne water by the enstruction tal	ng site e existi «es pla	s wil	Il be located an a egetation. uring significant	imple dis	tance from
	If Hydric s	oils are pres	sent, is a wetland determination a	attached to this	module	?	⊠ Yes □ N	o 🗌 N	'A
	2) identify	the extent	be contaminated, 1) identify the of soil contamination on an E&S sed to avoid or minimize disturba	Plan Drawing	that is	attac	hed to this module	, and 3) o	lescribe the

3800-PM-BCW0406a Rev. 12/2019 E&S Module 1

N.I	/ A
IN	ım

3. Describe the characteristics of the earth disturbance activity, including the past, present and proposed land uses and the proposed alteration to the project site.

The past and present land uses of the property are residential in nature and include the installing of the existing pipeline. Earth distrubance activity will be the installing of the relocated section of 14-inch pipeline via trenchless Horiztontal directional drilling, with limited traditional trench methods.

4. Describe the volume and rate of runoff from the project site and its upstream watershed area.

N/A

	heck boxes to indicate all BMPs that will be install	Plan No(s). Identified	Plan No(s). for O&M 705	Deviation(s) from E&S Manual
$\boxtimes$	Rock Construction Entrance	701, 702		N/A
	Rock Construction Entrance with Wash Rack			
	Rumble Pad			
	Wheel Wash			
	Temporary and Permanent Access Roads			
	Waterbar			
	Broad-based Dip			
	Open-top Culvert			
	Water Deflector			
	Roadside Ditch			
	Ditch Relief Culvert			
	Turnout			
	Compost Sock Sediment Trap			
	Temporary Stream Crossing			
	Temporary Wetland Crossing			
	Turbidity Barrier (Silt Curtain)			
	Dewatering Work Areas			
$\boxtimes$	Pumped Water Filter Bag	703	705	
	Sump Pit			
	Waste Management			
	Concrete Washout			
$\boxtimes$	Compost Filter Sock	702	705	N/A
	Compost Filter Berm			
	Weighted Sediment Filter Tube			
	Rock Filter Outlet			
	Silt Fence (Filter Fabric Fence)			
	Reinforced Silt Fence			
	Super Silt Fence (Super Filter Fabric Fence)			

E&S BMPs	Plan No(s). Identified	Plan No(s). for O&M	Deviation(s) from E&S Manual
☐ Sediment Filter Log (Fiber Log)			
Straw Bale Barrier			
☐ Rock Filter			
☐ Vegetative Filter Strip			
☐ Inlet Filter Bag			
Stone Inlet Protection			
Runoff Conveyance (Channel)			
Bench			
☐ Top-of-Slope Berm			
☐ Temporary Slope Pipe			
☐ Sediment Basin			
☐ Sediment Trap			
Riprap Apron			
☐ Flow Transition Mat			
Stilling Basin (Plunge Pool)	V		
☐ Stilling Well			
☐ Energy Dissipater			
☐ Drop Structure			
☐ Earthen Level Spreader			
Structural Level Spreader			
☐ Surface Roughening			
☐ Vegetative Stabilization			
	707	705	N/A
☐ Soil Binders			
Sodding			
Cellular Confinement Systems			
Alternative:			
☐ Alternative:			

Table 1 – For PAG-01 applicants, complete the requested information for each selected E&S BMP, where applicable.

Site Access BMPs			,		,					
BMP Name	No.	Length (ft)	Width (ft)	% Slope	Spacing (ft)	Length of Upslope Drainage (ft)	Culvert Diameter (in)	Soil T	ype in Ditch	E&S Manual Figure/Detail No.
Rock Construction Entrance (RCE)	5	50	20							#3-1
RCE with Wash Rack										
Temporary and Permanent Access Roads – Crowned Roadway										
Temporary and Permanent Access Roads – Insloped Roadway										
Waterbar										
Broad-based Dip										
Open-top Culvert										
Water Deflector										
Roadside Ditch										
Ditch Relief Culvert										
Sediment Barriers / Filters		<del></del>								
BMP Name	DA (ad	c) Dian	neter (in)	Storage Capacity (cf)	Trap Heig (in)	ght % Slope	Slope L Above Ba	ength arrier (ft)	Barrier Height (in)	E&S Manual Figure/Detail No.
Compost Sock Sediment Trap										
Compost Filter Sock			12			1	35	0	12	#4-1
Compost Filter Berm										
Silt Fence (Filter Fabric Fence)										
Super Silt Fence										
Sediment Filter Log										
Weighted Sediment Filter Tube										
Straw Bale Barrier										
Wood Chip Filter Berm										
Toe-of-Slope Berm										
									IU.	1

Table 1 – For PAG-01 applicants, complete the requested information for each selected E&S BMP, where applicable.

Runoff Conveyand	e BMPs														
BMP Name	Temporary	Design Storm	DA (a	c) Multipli	er Qr	(cfs)	Q (cfs)		ning's n	Va (fps		D (1	ft) d (f	Flow (t) Depth Ratio	Figure/Detail
Vegetated Channel															
Sodded Channel															-
Riprap Channel															
Energy Reduction	BMPs				-										
BMP Name	Downstream to Drainage			stream % Slope	DA	(ac)	Disch (cfs			hole th (ft)		w Pipe leter (in		let Pipe neter (in)	E&S Manual Figure/Detail No.
Level Spreader															
Drop Structure															
Stilling Basins / W	ells				4.										
BMP Name	Pipe Diameter (in)	Dischar	ge (cfs)	Well Diame (in)		Depth o	of Well overt (ft)	Basi	n Depth	(ft)	Median F Size (		Distance from Discharge Pipe to Basin Center (ft)		E&S Manual Figure/Detail No.
Stilling Basin		1											'	,	
Stilling Well															
Other BMPs														+	
BMP Name	DA (ac)	Pipe Diameter (in)	Berm Height (in)	Length (ft)	% Slope	Vertic Spaci (ft)	ng Cr	annel pth (ft)		rap ze	Ripra Thickne (in)		Initial /idth (ft)	Terminal Width (ft	LIGUES/Datail
Temporary Slope Pipe															
Bench															
Rock Filter															
Riprap Apron															-

For selected BMPs not identified in Table 1, report the name of the BMP and the Figure or Detail No. from the E&S Manual that will be used for design and implementation (PAG-01 only). E&S Manual E&S Manual **BMP Name BMP Name** Figure/Detail No. Figure/Detail No. Trench Plug #13-4 **Pumped Water Filter Bag** #3-16 All applicable Standard E&S Worksheets from Appendix B of the E&S Manual have been completed and are attached. 6. 7. Other worksheets or calculations equivalent to Appendix B of the E&S Manual have been completed and are attached. Identify the E&S Plan Drawing number(s) that describes the sequence of BMP installation and removal in relation to the scheduling of earth disturbance activities, prior to, during and after earth disturbance activities that ensure the proper functioning of all BMPs. 706 Supporting E&S calculations have been completed and are available upon request (PAG-01 only). 10. Supporting E&S calculations are attached to the NOI/application. 11. Plan drawings consist of standard Figures/Construction Details in E&S Manual (PAG-01 only). 12. 
Plan drawings have been developed for the project and are attached to the NOI/application. 13. BMPs will be inspected on a weekly basis and after measurable storm events (i.e., at least 0.25 inch). 14. Identify the following information relating to temporary stabilization measures on an E&S Plan Drawing and identify the Drawing No. below: 1) vegetative species, 2) % pure live seed, 3) seed application rate, 4) fertilizer type, 5) fertilizer application rate, 6) mulch type, 7) mulching rate, and 8) liming rate. E&S Plan Drawing No(s).: 15. Identify the following information relating to permanent stabilization measures on an E&S Plan Drawing and identify the Drawing No. below: 1) vegetative species, 2) % pure live seed, 3) seed application rate, 4) fertilizer type, 5) fertilizer application rate, 6) mulch type, 7) mulching rate, 8) liming rate, 9) anchor material, 10) anchoring method, 11) rate of anchor material application, 12) topsoil placement depth, and 13) seeding season dates. E&S Plan Drawing No(s).: 16. Describe the procedures that will be taken to ensure that recycling or disposal of materials associated with or from the project site will be conducted properly. Operator/permittee shall insure that proper mechanisms are in place to control waste materials. Construction wastes include, but are not limited to, excess soil materials, building materials, concrete wash water, sanitary wastes, etc. that could adversely impact water quality. Measures should be planned and implemented for housekeeping, materials management, and litter control. Wherever possible, recycling of excess materials is preferred, rather than disposal. Off-site transport of materials requires that the receiving facility have its own approved, active permit to receive such materials. Hazardous or pollutant materials, including but not limited to chemicals, fuels, and lubricating oils shall not be stored within 100 feet of a wetland or waterbody according to PADEP. 17. Identify the presence of any naturally occurring geologic formations or soil conditions that may have the potential to cause pollution during earth disturbance activities. If such formations or conditions exist, identify BMPs that will be implemented to avoid or minimize potential pollution. No naturally occurring geologic formations or soil conditions have been identified that will cause pollution during earth moving disturbance. Typically, the only earth moving will be stripping of topsoil and shallow trenching activities. Major grading is not proposed as a part of this Project.

18. Identify whether the potential exists for thermal impacts to surface waters from the earth disturbance activity. If such potential exists, identify BMPs that will be implemented to avoid, minimize, or mitigate potential thermal impacts.

3800-PM-BCW0406a Rev. 12/2019 E&S Module 1

#### Thermal Impact Analysis

The linear nature of this pipeline project inherently minimizes thermal impacts. First, some work will take place within an existing, cleared right-of-way. There is minimal clearing for this project and approximately 2500 feet consists of the Delaware River trenchless HDD crossing. Additionally, all disturbed areas will be restored to their original conditions.

#### 3800-PM-BCW0406a Rev. 12/2019 E&S Module 1

19. Mark The E&S Plan has been planned, designed, and will be implemented to be consistent with the PCSM Plan.										
20. If applicable Drawing No(	<ol> <li>If applicable, identify existing and proposed riparian forest buffers on E&amp;S and PCSM Plan Drawings and identify the Drawing No(s) below (select N/A if not applicable).</li> </ol>									
E&S Plan Dr	awing No(s):	⊠ N/A								
PCSM Plan I	Drawing No(s):									
E&S PLAN DEVELOPER										
☐ I am trained a	and experienced in E&S control methods.	⊠ I am a lic	ensed professional.							
Name:	Christopher Antoni	Title:	Sr. Vice President							
Company:	STV Energy Services, Inc.	Phone No.:	610-698-9772							
Address:	205 West Welsh Drive	Email:	Christopher.Antoni@Stvinc.com							
City, State, ZIP:	Douglassville, PA, 19518	_ License No.:	PE-057385-E							
License Type:	Professional Engineer	Exp. Date:	9/30/2021							
01/14/2021										
E&S	Plan Developer Signature	Date								

3800-PM-BCW0405c Rev. 4/2020
PAG-02 Checklist

pennsylvania

DEPARTMENT OF ENVIRONMENTAL
PROTECTION

# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

#### PAG-02

# NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES NOI CHECKLIST

Appl	Applicant Name: Sunoco Pipeline LP									
Proje	ect Site Name:	-Inch Twin Oaks to Newark Jacobs Creek Pipeline Relocation								
NOI	Туре:	Minor Amend	ment							
Plac	Place a checkmark in the box provided for all items completed and/or provided. Failure to provide all require nformation will delay the processing of the NOI. ENCLOSE THIS CHECKLIST WITH YOUR COMPLETED NOI.									
	NOI REQUIREMENTS ¹ If Included									
1	One original and or	ne copy of the complete NOI form (3800-PM-BCW0405b)	×							
2.	Administrative Filin	g Fee (\$500 plus any additional CCD-specific fees, if applicable)	$\boxtimes$							
3.	One copy of the co	mpleted NOI form to DEP (if CCD will review NOI)	$\boxtimes$							
4.	Disturbed Acreage	Fee (\$100 x disturbed acres)	⊠							
5.	Two copies of the (	County Notification Form (3800-FM-BCW0271b) <sup>2</sup>		⊠						
6.	Two copies of the N	Municipal Notification Form (3800-FM-BCW0271c) <sup>2</sup>								
<u>7</u> .:	Two copies of the proof of county and municipal receipt of Notification Forms (required if Notification Forms are not signed by county and/or municipality) <sup>2</sup>									
8.	One original and or	ne copy of the PNDI Receipt <sup>3</sup>								
9.	Two copies of the F	PNDI clearance letter(s) from jurisdictional agencies <sup>3</sup>	$\boxtimes$							
10.	One original and or	ne copy of E&S Module 1 (3800-PM-BCW0406a)								
11:	Two copies of E&S	Plan Drawings <sup>4</sup>	$\boxtimes$							
12.	Two copies of E&S	Standard Worksheets (or equivalent) and supporting calculations		$\boxtimes$						
13.	One original and or	ne copy of PCSM Module 2 (3800-PM-BCW0406b)	$\boxtimes$							
14,	Two copies of PCS	M Plan Drawings <sup>4</sup>	$\boxtimes$							
15,	Two copies of PCS	M Supporting Calculations – BMP Design		$\boxtimes$						
16.	Two copies of PCSM Supporting Calculations – Stormwater Analysis (required where DEP PCSM Spreadsheet not used)									
17,	Two copies of the D	DEP PCSM Spreadsheet – Volume Worksheet (optional)		$\boxtimes$						
18.	Two copies of the D	DEP PCSM Spreadsheet – Rate Worksheet (optional)								
19.	Two copies of the D	DEP PCSM Spreadsheet – Quality Worksheet		$\boxtimes$						
20.	Two copies of soil/g	peologic test results (where BMPs relying on infiltration will be installed)		$\boxtimes$						
21.	Other: Municipal and County Act 14 Letters with Recipts									

#### 3800-PM-BCW0405c Rev. 4/2020 PAG-02 Checklist

The table below identifies the items in an application package (corresponding to the item numbers in the checklist) that must be submitted to a delegated county conservation district (CCD) or to the appropriate DEP regional office, based on NOI type.

NOI Type	Where CCD is the initial recipie	nt <sup>5</sup>	Where DEP is the recipient <sup>5</sup>		
NOI Type	Submit to CCD:	Submit to DEP:	Submit to DEP:		
New	Items 1, 2, and 4-25 (as applicable).		Items 1, 2 (\$500 only), and 4-25 (as applicable).		
Renewal <sup>6</sup>	Items 1 and 2, and a letter indicating that the previously approved E&S and PCSM Plans have not been revised and explaining what work has been completed and what work remains on the project site.		Items 1 and 2 and a letter indicating that the previously approved E&S and PCSM Plans have not been revised and explaining what work has been completed and what work remains on the project site.  Items 1, 2, 3-9 (only for new earth disturbance), 10-12 (where applicable, only for revisions to the E&S Plan), 13-20 (where applicable, only for revisions to the PCSM Plan), and 21 (only where applicable). New or updated information must be bold/highlighted.  Items 1, 3-9 (only for new earth disturbance), 10-12 (where applicable, only for revisions to the E&S Plan), 13-20 (where applicable, only for revisions to the PCSM Plan), and 21 (only where applicable). New or updated information must be bold/highlighted.		
Major Amendment <sup>6</sup>	Items 1, 2, 3-9 (only for new earth disturbance), 10-12 (where applicable, only for revisions to the E&S Plan), 13-20 (where applicable, only for revisions to the PCSM Plan), and 21 (only where applicable). New or updated information must be bold/highlighted.	Item 3,			
Minor Amendment <sup>5</sup>	Items 1, 3-9 (only for new earth disturbance), 10-12 (where applicable, only for revisions to the E&S Plan), 13-20 (where applicable, only for revisions to the PCSM Plan), and 21 (only where applicable). New or updated information must be bold/highlighted.				

- Applicants may submit the completed County and Municipal Notification Forms with the NOI or, if the county and/or municipality has not returned the completed form to the applicant 30 days following receipt by the county and municipality, the applicant may submit copies of the forms submitted to the county/municipality along with proof that the county/municipality received the form(s). County and Municipal Notification Forms are not required for renewal NOIs and are required for major and minor amendment NOIs only if new earth disturbance is proposed.
- 3 All applicants for new permits must attach a PNDI receipt. If the PNDI receipt indicates a Potential Impact, the applicant may submit clearance letters from jurisdictional agencies with the application or, if the clearance letters have not been received by the time of application submission, the applicant may submit clearance letters during the NOI review period. DEP/CCD will not authorize coverage under the general permit prior to the receipt of such letters, if applicable. PNDI receipts are not required for renewal NOIs and are required for major and minor amendment NOIs only if new earth disturbance is proposed.
- 4 E&S and/or PCSM Plan Drawings must present project site and limit of disturbance boundaries, topography, surface waters (including wetlands), discharge points, BMPs, off-site support activities (if applicable), and all other features required by the application.
- For projects located solely in Beaver, Forest, and Philadelphia counties, the DEP Regional Office is the recipient. For projects that span two (2) counties, the county with the greatest amount of earth disturbance will be the recipient (unless that county is Beaver, Forest, or Philadelphia, in which the DEP Regional Office will be the recipient). For projects that span three (3) or more counties within one (1) DEP Region, the DEP Regional Office is the recipient. For projects that span three (3) or more counties within two (2) or more DEP Regions, the DEP Regional Permit Coordination Office (RPCO) is the recipient. For projects that span two (2) or more counties, additional copies of the items may be required. Additionally, where certain types of PCSM BMPs, including floodplain restoration and gravity stormwater wells (i.e., Class V Injection Wells), are proposed, DEP RPCO will take responsibility for the review.
- Renewal NOIs must use form 3800-PM-BCW0405b (the General Information, Eligibility Information, Compliance History, and Certification for PAG-02 Applicants must be completed at a minimum). For major and minor amendment NOIs, previously submitted forms and attachments may be used, with updated information, and submitted if the original application was not submitted using form 3800-PM-BCW0405b. If form 3800-PM-BCW0405b is used for a major amendment, the form must be completed in its entirety. If form 3800-PM-BCW0405b is used for a minor amendment, the General Information, Eligibility Information, Compliance History, and Certification for PAG-02 Applicants must be completed at a minimum.

PNDI Receipt: project\_receipt\_jacobs\_creek\_pipeline\_rep\_683917\_FINAL

#### 1. PROJECT INFORMATION

JAN 15 2021

Project Name: Jacobs Creek Pipeline Replacement

BCCD

Date of Review: 5/22/2019 10:11:39 AM Project Category: Energy Storage, Production, and Transfer, Energy Transfer, Pipeline (e.g., gas, oil) -- NEW

(construction of new line in a new location)

Project Area: 9.93 acres

County(s): Bucks

Township/Municipality(s): UPPER MAKEFIELD

ZIP Code: 18977

Quadrangle Name(s): PENNINGTON

Watersheds HUC 8: Middle Delaware-Musconetcong

Watersheds HUC 12: Buck Creek-Delaware River; Jacobs Creek-Delaware River

Decimal Degrees: 40.277867, -74.856544

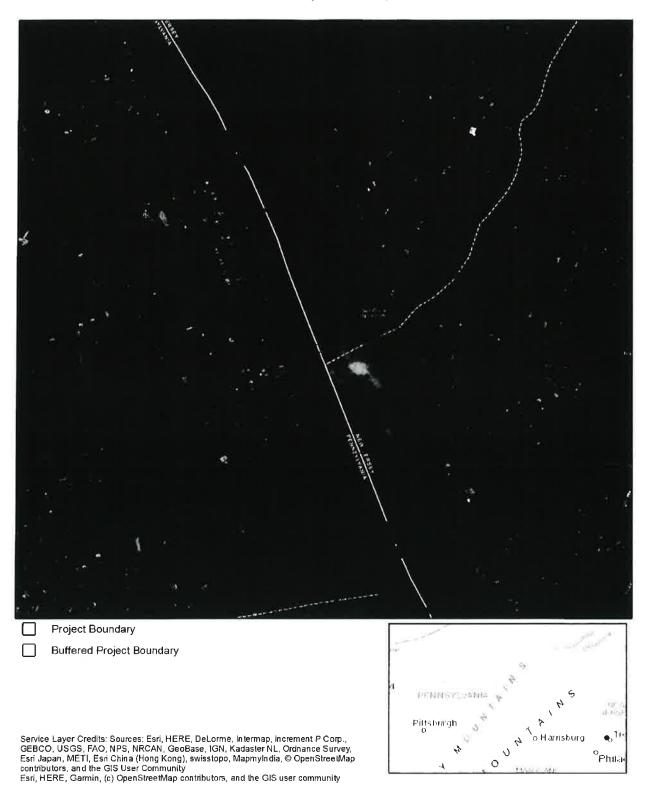
Degrees Minutes Seconds: 40° 16' 40.3210" N, 74° 51' 23.5590" W

#### 2. SEARCH RESULTS

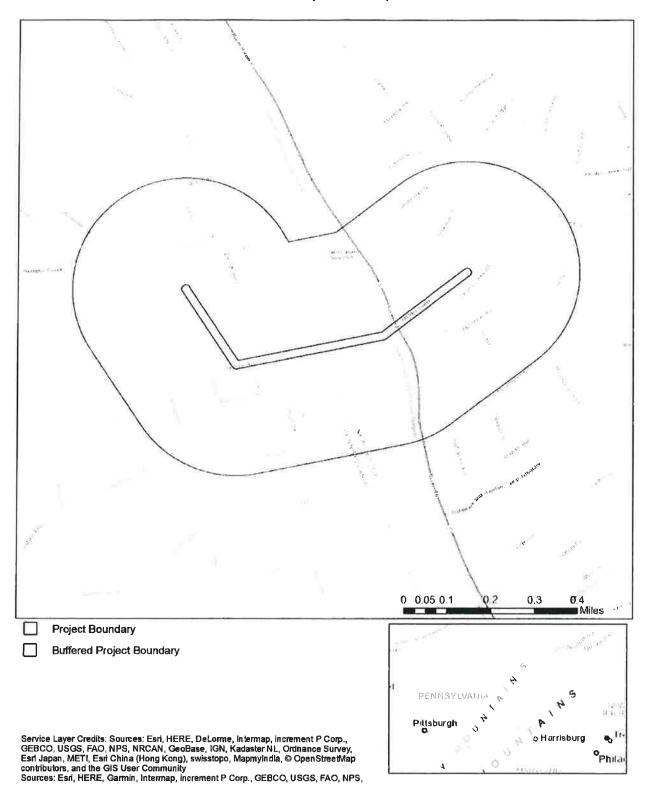
Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

#### Jacobs Creek Pipeline Replacement



#### Jacobs Creek Pipeline Replacement



#### **RESPONSE TO QUESTION(S) ASKED**

Q1: Accurately describe what is known about wetland presence in the project area or on the land parcel. "Project" includes all features of the project (including buildings, roads, utility lines, outfall and intake structures, wells, stormwater retention/detention basins, parking lots, driveways, lawns, etc.), as well as all associated impacts (e.g., temporary staging areas, work areas, temporary road crossings, areas subject to grading or clearing, etc.). Include all areas that will be permanently or temporarily affected -- either directly or indirectly -- by any type of disturbance (e.g., land clearing, grading, tree removal, flooding, etc.). Land parcel = the lot(s) on which some type of project(s) or activity(s) are proposed to occur.

**Your answer is:** Someone qualified to identify and delineate wetlands has investigated the site, and determined that NO wetlands are located in or within 300 feet of the project area. (A written report from the wetland specialist, and detailed project maps should document this.)

**Q2:** The proposed project is in the range of the Indiana bat. Describe how the project will affect bat habitat (forests, woodlots and trees) and indicate what measures will be taken in consideration of this. Round acreages up to the nearest acre (e.g., 0.2 acres = 1 acre).

Your answer is: No forests, woodlots or trees will be affected by the project.

Q3: Aquatic habitat (stream, river, lake, pond, etc.) is located on or adjacent to the subject property and project activities (including discharge) may occur within 300 feet of these habitats?

Your answer is: Yes

Q4: Is tree removal, tree cutting or forest clearing of 40 acres or more necessary to implement all aspects of this project?

Your answer is: No

#### 3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

#### **PA Game Commission**

#### **RESPONSE:**

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

## PA Department of Conservation and Natural Resources RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

## PA Fish and Boat Commission RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

Project Search ID: PNDI-683917

**PFBC Species:** (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Common Name	Current Status	
	Endangered	
	Endangered	
	Endangered	
	Threatened	
	Common Name	Endangered Endangered Endangered

# U.S. Fish and Wildlife Service RESPONSE:

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

- \* Special Concern Species or Resource Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.
- \*\* Sensitive Species Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

#### WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload\* or email\* the following information to the agency(s). Instructions for uploading project materials can be found <a href="https://example.com/here">https://example.com/here</a>. This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies. Alternatively, applicants may email or mail their project materials (see AGENCY CONTACT INFORMATION).

\*Note: U.S.Fish and Wildlife Service requires applicants to mail project materials to the USFWS PA field office (see AGENCY CONTACT INFORMATION). USFWS will not accept project materials submitted electronically (by upload or email).

# Check-list of Minimum Materials to be submitted: \_\_\_\_Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted. \_\_\_\_A map with the project boundary and/or a basic site plan(particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.) In addition to the materials listed above, USFWS REQUIRES the following \_\_\_\_SIGNED copy of a Final Project Environmental Review Receipt The inclusion of the following information may expedite the review process. \_\_\_\_Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)

Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

#### Project Search ID: PNDI-683917

#### 4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <a href="https://conservationexplorer.dcnr.pa.gov/content/resources">https://conservationexplorer.dcnr.pa.gov/content/resources</a>.

#### Project Search ID: PNDI-683917

#### 5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (<a href="www.naturalheritage.state.pa.us">www.naturalheritage.state.pa.us</a>). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

#### 6. AGENCY CONTACT INFORMATION

## PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section 400 Market Street, PO Box 8552 Harrisburg, PA 17105-8552 Email: RA-HeritageReview@pa.gov

PA Fish and Boat Commission

Division of Environmental Services 595 E. Rolling Ridge Dr., Bellefonte, PA 16823

Email: RA-FBPACENOTIFY@pa.gov

U.S. Fish and Wildlife Service

Pennsylvania Field Office Endangered Species Section 110 Radnor Rd; Suite 101 State College, PA 16801 NO Faxes Please

#### **PA Game Commission**

**NO Faxes Please** 

Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat
Protection
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC\_PNDI@pa.gov

#### 7. PROJECT CONTACT INFORMATION

Name: James McGinley	
Company/Business Name: STV Form Sauce	
Address: 205 west wolch por	
City, State, Zip: Doughan 1/16 19518	
Phone:(616) 655-7654 Fax:()	
Email: jin, magin by @ str inc. con	
8. CERTIFICATION	
I certify that ALL of the project information contained in this receipt (including p size/configuration, project type, answers to questions) is true, accurate and co	mplete. In addition, if the project type,
location, size or configuration changes, or if the answers to any questions that	were asked during this online review
change, I agree to re-do the online environmental review.	
hal	615119
applicant/project proponent signature	date

# 3800-PM-BCW0406b Rev. 12/2019 PCSM Module 2 Pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION

# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

# NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES POST-CONSTRUCTION STORMWATER MANAGEMENT (PCSM) MODULE 2

Applicant:	Sunoco Pi	peline LP	Project Site Name: 14-Inch Twin Oaks to Newark Pipeline Relocation Project Jacobs Creek								
Surface Wa	ter Name(s):	Delaware River, Hough's Creek	Surface Water Use(	s): WWF, MF							
		PCSM P	LAN INFORMATION								
1. Identify	1. Identify all structural and non-structural PCSM BMPs that have been selected and provide the information requested.										
Discharge Point(s)	BMP ID	BMP Name	BMP Manual	Latitude	Longitude	DA Treated (ac)					
		ë									
Undetained	Areas:	acre(s)									
	ect Qualifies	as a Site Restoration Project (2	5 Pa. Code §102.8(n))								
Describe inspection	e the sequer ons for the cri	nce of PCSM BMP implement tical stages of PCSM BMP insta	ation in relation to ear	th disturbance	activities and	a schedule of					
1. Тор	soil will be g	graded back to original location	on and the site will be re	eturned to exis	sting conditions	s.					
		eas shall be returned to existi ypical permanent seeding and		seeded and m	ulched. See pe	rmanent					
3. Inst	all erosion c	ontrol matting as shown on th	ne plans.								

#### 3800-PM-BCW0406b Rev. 12/2019 PCSM Module 2

- 4. Upon stabilization, remove perimeter compost filter and all other erosion control measures.
- 5. Remove exclusion fencing.
- 6. Permanently seed and mulch all remaining areas disturbed while removing BMPs.
- 7. All temporary Rock Construction Entrances (PA) and Stabilized Construction Accesses (NJ) shall be removed and immediately permanently seeded and mulched.
- 3. Plan drawings have been developed for the project and will be available on-site.
- 4. Plan drawings have been developed for the project and are attached to the NOI/application.
- 5. Recycling and proper disposal of materials associated with PCSM BMPs are addressed as part of long-term operation and maintenance of the PCSM BMPs.
- Identify naturally occurring geologic formations or soil conditions that may have the potential to cause pollution after earth disturbance activities are completed and PCSM BMPs are operational and the applicant's plan to avoid or minimize potential pollution and its impacts.

No naturally occurring geologic formations or soil conditions have been identified that will cause pollution during earth moving disturbance. Typically, the only earth moving will be stripping of topsoil and shallow trenching activities. Major grading is not proposed as a part of this Project.

7. Identify whether the potential exists for thermal impacts to surface waters from post-construction stormwater. If such potential exists, identify BMPs that will be implemented to avoid, minimize, or mitigate potential thermal impacts.

The linear nature of this pipeline project inherently minimizes thermal impacts. First, some work will take place within an existing, cleared right-of-way. There is minimal clearing for this project and approximately 2500 feet consists of the Delaware River trenchless HDD crossing. Additionally, all disturbed areas will be restored to their original conditions.

- 8. A The PCSM Plan has been planned, designed, and will be implemented to be consistent with the E&S Plan.
- A pre-development site characterization has been performed.

STORMWATER ANALYSIS – RUNOFF VOLUME											
Surface Water	r Name:	Delawar	e River, Hough'	s Creek				Discha	rge Point(s):	0	
1.   The de	esign stand	ard is base	ed on volume ma	nagement re	quirements in	an Act 167 Pla	ın approv	ved by DEP with	n the past five ye	ears.	
3.											
4. 🗌 A print	out of DEP	's PCSM S	Spreadsheet – Vo	olume Worksl	heet is attache	ed.					
5. 2-Year/24-	Hour Storn	n Event:	in	ches So	ource of precip	oitation data:					
6. Stormwate	er Runoff Vo	olume, Pre	e-Construction Co	onditions:		CF	Calcu	lations attached			
7. Stormwate	er Runoff Vo	olume, Po	st-Construction C	Conditions:		CF	Calcu	lations attached			
8. Net Chang	je (Post-Co	nstruction	<ul><li>Pre-Construct</li></ul>	ion Volumes)	:	CF					
9. Identify all	selected st	ructural P	CSM BMPs and	provide the in	formation req	uested.	Calcu	lations attached			
DP No.	BMP ID	Series	Vol. Routed to BMP (CF)	Inf. Area (SF)	Inf. Rate (in/hr)	Inf. Period (hrs)	Veg?	Media Depth (ft)	Storage Vol. (CF)	Inf. Credit (CF)	ET Credit (CF)
											1

Total Infiltration & ET Credits (CF):

Non-Structural BMP Volume Credits (CF) (Attach Calculations):

Managed Release Credits (CF) (Attach MRC Design Summary):

Volume Required to Reduce/Manage (CF):

Total Credits (CF):

#### 3800-PM-BCW0406b Rev. 12/2019 PCSM Module 2

	INFILTRATION INFORMATION							
ви	MP ID: Soil/geologic test results are attached.							
1.	No. of infiltration tests completed:							
2.	Method(s) used for infiltration testing:							
3.	Test Pit Identifiers (from PCSM Plan Drawings):							
4.	Avg Infiltration Rate: in/hr 5. FOS: :1							
6.	Infiltration rate used for design: in/hr							
7.	Separation distance between the BMP bottom and bedrock: feet							
8.	Separation distance between the BMP bottom and seasonal high-water table: feet							
9.	Comments:							
BN	IP ID: Soil/geologic test results are attached.							
1.	No. of infiltration tests completed:							
2.	Method(s) used for infiltration testing:							
3.	Test Pit Identifiers (from PCSM Plan Drawings):							
4.	Avg Infiltration Rate: in/hr 5. FOS: 3.1							
6.	Infiltration Rate Used for Design: in/hr							
7.	Separation distance between the BMP bottom and bedrock: feet							
8.	Separation distance between the BMP bottom and seasonal high-water table: feet							
9.	Comments:							
BM	P ID: Soil/geologic test results are attached.							
1.	No. of infiltration tests completed:							
2.	Method(s) used for infiltration testing:							
3.	Test Pit Identifiers (from PCSM Plan Drawings):							
4.	Avg Infiltration Rate: in/hr 5. FOS: : 1							
6.	Infiltration Rate Used for Design: in/hr							
7.	Separation distance between the BMP bottom and bedrock: feet							
8.	Separation distance between the BMP bottom and seasonal high-water table: feet							
9.	Comments:							

	STORMWATER ANALYSIS – PEAK RATE									
Surface Water Name	:				Dis	charge Poi	nt(s):			
1.  The design st	andard is bas	ed on rate re	equirements	in an Act 16	7 Plan appro	ved by DEF	within the	past five y	ears.	
2.  The design st	andard is bas	ed on mana	ging the net	change for 2	?-, 10-, 50-, a	ınd 100-yea	r/24-hour s	torms.		
3. An alternative	3. An alternative design standard is being used.									
4. A printout of DEP's PCSM Spreadsheet – Rate Worksheet is attached.										
5. Alternative rate calculations are attached.										
6. Identify precipitati	6. Identify precipitation amounts. Source of precipitation data:									
2-Year/24-Hour S	torm:			10-Yea	ar/24-Hour S	torm				
50-Year/24-Hour	Storm:			100-Ye	ear/24-Hour	Storm				
7. Report peak disch	narge rates, pi	e- and post-	-construction	(without BM	/IPs), based	on a time of	concentra	tion analysi	S.	
Design Storm Pre-Construction Peak Rate (cfs)				Post-Con	struction P (cfs)	eak Rate	Difference (cfs)			
2-Year/24-Hour										
10-Year/24-Hour										
50-Year/24-Hour										
100-Year/24-Hour										
8. Identify all BMPs i	used to mitiga	te peak rate	differences	and provide	the requeste	ed information	on.			
BMP ID			Inflow to	BMP (cfs) Outflow from BMP (cfs)					\$)	
		2-Yr	10-Yr	50-Yr	100-Yr	2-Yr	10-Yr	50-Yr	100-Yr	
9. Report peak rates	for pre-constr	ruction and p	ost-constru	ction with BN	/IPs and ider	tify the diffe	erences.			
Design Storm	esign Storm Pre-Construction Peak Rate (cfs)				struction Po th BMPs) (c	Dif	Difference (cfs)			
2-Year/24-Hour										
10-Year/24-Hour										
50-Year/24-Hour										
100-Year/24-Hour										

STORMWATER ANALYSIS – WATER QUALITY			
A printout of DEP's PCSM Spreadsheet – Quality Worksheet is attached for all surface waters receiving discharges.			
LONG-TERM O&M			
Describe the long-term operation and maintenance (O&M) requirements for each selected PCSM BMP.			
BMP ID	O&M Requirements		
	PCSM PLA	N DEVELOPER	
☐ I am trained and experienced in PCSM methods. ☐ I am a licensed professional.			sed professional.
Name:	Christopher Antoni	Title:	Sr. Vice President
Company:	STV Energy Services, Inc.	Phone No.:	610-698-9772
Address:	205 West Welsh Drive	Email:	Christioher.Antoni@Stvinc.com
City, State, ZIP:	Douglassville, PA 19518	License No.:	PE-057385-E
License Type:	Professional Engineer	Exp. Date	9/30/2021
01/14/2021			
PCSM Plan Developer Signature Date			
Section Bellevise and British and Commission of the Commission of			



### **BUCKS COUNTY CONSERVATION DISTRICT**

1456 FERRY ROAD, SUITE 704 **DOYLESTOWN, PA 18901-5550** P (215)345-7577 F (215)345-7584

In Pursuit of Environmental Excellence

APPLICATION FOR CHAPTER 102 and/or NPDES REVIEW INFORMATION FORM

This form must be completed and submitted along with the required plans and fees for first time E&S reviews and resubmissions. Please see page 2 for instructions regarding the number of copies required for various submissions. Application Type: Plan Date OR Most Recent Revision Date: \_\_\_\_\_\_ NEW PLAN X RESUBMISSION CORRECTIVE ACTION PLAN ADMINISTRATIVE INCOMPLETE (\$250.00 FEE) NPDES MINOR AMENDMENT (\$250.00 FEE) 14-Inch Twin Oaks to Newark Jacobs Project Municipality Upper Makefiled Township Project Name Creek Pipeline Relocation 47-024-001, Tax Parcel Number 47-024-002-001,47-024-023 Project Address 106 Oakdale Ave, Washington Crossing, PA 18977-1430 ACRES TO BE DISTURBED 4.902 #Lots N/A \*TOTAL ACREAGE '4.902 Watershed Delaware River Basin Receiving Stream Delaware River, Hough's Creek Stream Classification WWF, MF APPLICANT INFORMATION **PLAN PREPARER** Applicant Name: Colleen Armstrong Designer Name: Christopher Antoni Applicant Company: Sunoco Pipeline LP Company: STV Energy Services Address: 100 Green St Address: 205 West Welsh Dr City/State/Zip: Marcus Hook, PA, 19061-4800 City/State/Zip: Douglasville, PA 19518 Phone: 215-205-8199 Ext: Phone: 610-698-9772 Email: Colleen.Armstrong@EnergyTransfer.com Christopher.Antoni@STVINC.com Submitted By: X Engineering Firm/Plan Designer Contractor ☐ Landowner ☐ Municipality E&S Fee Exemptions and Exceptions: County Agencies Volunteer Fire Stations/ Ambulance Services Co-op Farmer, #\_\_\_\_\_ ☐ Municipalities/ Public Schools (1/2 fee) ☐ Other: \*\*FEE SCHEDULE FOR E&S REVIEWS (BASED ON DISTURBED ACRES ONLY) \*\* INCLUDED WITH SUBMISSION ARE: X PLANS/NARRATIVES X FEE(S) NPDES/E&S PERMIT APPLICATION SINGLE FAMILY HOME (1 RESIDENCE) WITH UNDER 1 ACRE OF DISTURBANCE = \$200.00 ALL OTHER EARTH DISTURBANCE: **TIMBER HARVEST** .02296 to 0.99 acres = \$650.00 0.0-24.99 ACRES = \$200.00; ≥25.0 ACRES = E&S PERMIT **E&S PERMIT** 1.0 to 1.99 acres = \$1,350.00 ≥25.0 ACRES = \$650 (PLUS FEES ASSOCIATED WITH NPDES INDIVIDUAL PERMIT, SEE **X** 2.0 to 4.99 acres = \$2,000.00 PAGE 2, "NPDES INFORMATION") 5.0 to 9.99 acres = \$3,000.00 SMALL POND WORK E&S FEE = \$200.00 (MAY REQUIRE NPDES PERMIT, SEE PAGE 2 10.0 to 19.99 acres = \$5,000.00 "NPDES INFORMATION") \*\*FOR PROJECTS WITH EARTH DISTURBANCE OF ONE (1) ACRE OR MORE IT IS REQUIRED THA 20+ acres = \$6,000.00 + AN NPDES APPLICATION (NOI) BE SENT WITH THE E&S SUBMISSION. Additional \$100.00 per acre for each acre over 20 \*\*PLEASE READ PAGE 2 OF THIS APPLICATION UNDER "EXEMPTIONS AND EXCEPTIONS" (Fractions of an acre are rounded up to the next whole acre.) PLEASE SUBMIT\_FOLDED PLANS TO THE DISTRICT. ROLLED PLANS WILL NOT BE ACCEPTED. BCCD USE ONLY BEYOND THIS POINT DATE SENT BACK E&S FEE REC'D \$ 2000.00 CHECK# 118430 DEP CWF FEE \$ CHECK# // 843/ EXPEDITED FEE\$ CAP/ADMIN/MA FEE \$\_\_ NPDES FEE \$ \_ CHECK#\_//8389 NPDES # ASSIGNED 7/1/2019 PLEASE READ ALL INSTRUCTIONS ON PAGE 2 OF APPLICATION

## RECEIVED





## Pennsylvana Dish & Boat Commission

Division of Environmental Services
Natural Gas Section
595 E Rolling Ridge Dr.
Bellefonte, PA 16823

June 12, 2019

IN REPLY REFER TO

SIR# 51347

STV, Inc. James McGinley 205 W. Welsh Drive Douglassville, Pennsylvania 19518

RE: Species Impact Review (SIR) - Rare, Candidate, Threatened and Endangered Species

PNDI Search No. 683917\_1

**Jacobs Creek Pipeline Replacement** 

**BUCKS County: Upper Makefield Township** 

Dear James McGinley:

This responds to your inquiry about a Pennsylvania Natural Diversity Inventory (PNDI) Internet Database search "potential conflict" or a threatened and endangered species impact review. These projects are screened for potential conflicts with rare, candidate, threatened or endangered species under Pennsylvania Fish & Boat Commission jurisdiction (fish, reptiles, amphibians, aquatic invertebrates only) using the PNDI database and our own files. These species of special concern are listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, and the Pennsylvania Fish & Boat Code (Chapter 75), or the Wildlife Code.

#### Eastern Redbelly Turtle (Pseudemys rubriventris, PA threatened)

Based on the review of this information and the proximity of the project to known element occurrences of the Eastern Redbelly Turtle (Delaware River and Delaware Canal), nesting areas for the redbelly turtle could be present within the proposed disturbance area. Therefore, I recommended that no construction be conducted during the redbelly turtle nesting and hatching season, **May 15th to October 15th.** 

Provided this stipulation is met, I do not foresee any adverse impacts to the Eastern Redbelly Turtle from the proposed project. Should the above timing restriction not be feasible, conservation measures may be necessary to avoid impacts, therefore consultation should be reinitiated.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence.

Our Mission:

www.fish.state.pa.us

Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

If you have any questions regarding this review, please contact Greg Lech at 610-847-8772 and refer to the SIR # 51347. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

Greg Lech

Natural Gas Section

GPL/dn