

ATTACHMENT 8:  
Off Site Discharge Analysis

# Attachment 8 – Section E.5 -Off Site Discharge Analysis

## Pennsylvania Pipeline Project - South East Region: Spreads 6

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## LIST OF ACRONYMS

### ACRONYM MEANING

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BMP	Best Management Practice
E&SC	Erosion and Sediment Control
LOD	Limit of Disturbance
PCSM	Post-Construction Stormwater Management
ROW	Right of way

## **PENNSYLVANIA PIPELINE PROJECT – OFF-SITE DISCHARGES OF STORMWATER TO AREAS THAT ARE NOT SURFACE WATERS**

The Pennsylvania Pipeline Project involves the installation of two parallel pipelines within a 306-mile, 50-foot-wide right-of-way (ROW) from Houston, Washington County, PA to SPLP's Marcus Hook facility in Delaware County, PA with the purpose of interconnecting with existing SPLP Mariner East pipelines. A 20-inch diameter pipeline would be installed within the ROW from Houston to Marcus Hook (306 miles) and a second, 16-inch diameter pipeline, will also be installed in the same ROW. The second line is proposed to be installed from SPLP's Delmont Station, Westmoreland County, PA to the Marcus Hook facility, paralleling the initial line for approximately 255 miles. Spread 6 (South East Region) of this project are cross through Chester and Delaware Counties, PA.

Throughout the length of the pipeline there are areas which propose to discharge stormwater to off-site areas other than a surface water. All of these discharges will be non-erosive to adjacent property owners and is detailed in the E&SC and PCSM plans per DEP Document No. 3140-FS-DEP4124. The locations of these discharges are detailed below.

### **PUMP STATIONS**

There are no off-site discharges to areas other than surface water for any of the pump stations.

### **BLOCK VALVES**

*East Lincoln Highway* – Chester County - This block valve includes an off-site discharge to an area other than surface water from the underdrain. Both the E&SC and PCSM plans ensure that the discharge will not cause erosion, damage, or a nuisance to off-site properties through the installation outlet protection which meets the design parameters in PADEP documents 363-2134-008 and 363-0300-002. These measures are detailed in the respective plans.

*Fairview Rd* – Chester County - This block valve includes an off-site discharge to an area other than surface water from the underdrain. Both the E&SC and PCSM plans ensure that the discharge will not cause erosion, damage, or a nuisance to off-site properties through the installation outlet protection which meets the design parameters in PADEP documents 363-2134-008 and 363-0300-002. These measures are detailed in the respective plans.

*South Pennell* – Delaware County - This block valve includes an off-site discharge to an area other than surface water from the underdrain. Both the E&SC and PCSM plans ensure that the discharge will not cause erosion, damage, or a nuisance to off-site properties through the installation outlet protection which meets the design parameters in PADEP documents 363-2134-008 and 363-0300-002. These measures are detailed in the respective plans.

## **MAINLINE**

There are several locations along the length of the pipeline which have off-site discharges to areas other than surface waters and a list of these locations can be found in table 1. All of these discharges are from waterbars installed throughout the length of the pipeline installation. These water bars are designed in accordance with the PADEP's Erosion and Sediment Pollution Control Program Manual (363-2134-008) and the Pennsylvania Stormwater Best Management Practices manual (363-0300-002) and is a non-erosive discharge. Details of these measures can be found in the E&SC plan.

**Table 1:  
Off-Site Discharge to Non Surface Water Locations**

E&S SHEET NUMBER	STREAM NAME	STATIONING
<b>CHESTER</b>		
ES - 6.01	Conestoga Creek	14348+50 through 14361+25
ES - 6.02	Lower French Creek	14367+25
ES - 6.03, 6.04	Lower French Creek	14373+75 through 14389+00
ES - 6.04	Lower French Creek	14399+00 through 14402+50
ES - 6.06	Lower French Creek	14432+00 through 14433+50
ES - 6.08	Lower French Creek	14464+00 through 14471+75
ES - 6.10, ES-6.11	Marsh Creek	14499+75 through 14523+50
ES - 6.12, ES - 6.13	Marsh Creek	14528+00 through 14547+00
ES - 6.13, ES -6.14	Marsh Creek	14554+25 through 14563+50
ES - 6.14	Upper East Branch Brandywine Creek	14570+75 through 14577+00
ES - 6.15, ES -6.16	Upper East Branch Brandywine Creek	14586+00 through 14604+00
ES - 6.16, 6.17	Marsh Creek	14613+50
ES -6.18	Marsh Creek	14633+00 through 14643+00
ES - 6.21	Marsh Creek	14688+00
ES - 6.22, ES -6.23	Marsh Creek	14700+00 through 14732+00
ES - 6.37	Upper East Branch Brandywine Creek	14969+00
ES - 6.42	Valley Creek	15046+00 through 15048+50
ES - 6.43	Valley Creek	15059+50 through 15064+00
ES - 6.64	Ridley Creek	HDD Pullback Area

**Table 1:  
Off-Site Discharge to Non Surface Water Locations**

<b>DELAWARE</b>		
ES - 6.02	Ridley Creek	15597+00 through 15598+50
ES - 6.06, ES - 6.07	Ridley Creek	15676+50 through 15685+00
ES - 6.06, ES - 6.07	Chester Creek	15690+00 through 15697+00
ES - 6.09	Chester Creek	15731+00 through 15739+00
ES - 6.10	Chester Creek	15744+00
ES - 6.11	Chester Creek	15758+50 through 15772+50
ES-6.15	Chester Creek	15824+50 through 15842+00
ES-6.18	Chester Creek	15881+00
ES-6.21	Chester Creek	15938+00 through 15946+50
ES-6.24	Chester Creek	15984+50 through 15991+00
ES-6.25	Chester Creek	16001+00 through 16018+50