

PA DEP – Permits & Technical Services Section – ESC Permitting
Individual Permit
RECORD OF DECISION

ESC Application No.: ESG 05 000 15 001 Individual Permit

Applicant: Sunoco Pipeline, L.P.

Project Name: Pennsylvania Pipeline Project (Mariner East 2)

Washington County, Chartiers Township:

Watershed: <u>Chartiers Run, WWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>UNT to Chartiers Run (4), WWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>Westland Run, WWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>Chartiers Creek, WWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>UNT to Chartiers Creek, WWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>

Washington County, North Strabane Township:

Watershed: <u>UNT to Chartiers Creek (3), WWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>Little Chartiers Creek, WWF-HQ</u>	EV <input type="checkbox"/>	HQ <input checked="" type="checkbox"/>	Non-SP <input type="checkbox"/>
Watershed: <u>UNT to Little Chartiers Creek, WWF-HQ</u>	EV <input type="checkbox"/>	HQ <input checked="" type="checkbox"/>	Non-SP <input type="checkbox"/>

Washington County, Nottingham Township:

Watershed: <u>UNT to Peters Creek (6), TSF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>Peters Creek, TSF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>UNT to Mingo Creek(9), TSF-HQ</u>	EV <input type="checkbox"/>	HQ <input checked="" type="checkbox"/>	Non-SP <input type="checkbox"/>

Washington County, Union Township:

Watershed: <u>UNT to Mingo Creek (3), TSF-HQ</u>	EV <input type="checkbox"/>	HQ <input checked="" type="checkbox"/>	Non-SP <input type="checkbox"/>
Watershed: <u>Froman Run, TSF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>UNT to Froman Run (3), TSF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>Monongahela River, WWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>

Allegheny County, Forward Township:

Watershed: <u>Monongahela River, WWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>UNT to Bunola Run (4), WWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>Bunola Run, WWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>Kelly Run, WWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>UNT to Kelly Run, WWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>UNT to Perry Mill Run, WWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>Perry Mill Run, WWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>Sunfish Run, WWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>UNT to Sunfish Run (5), WWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>UNT to Becketts Run (8), WWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>

Allegheny County, Elizabeth Township:

Watershed: <u>UNT to Gillespie Run (3), WWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>Long Hollow, WWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>UNT to Pollock Run (2), WWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>

Westmoreland County, Rostraver Township:

Watershed: <u>UNT to Pollock Run (2), WWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>Pollock Run, WWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>Youghiogheny River, WWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>

Westmoreland County, South Huntington Township:

Watershed: <u>Youghiogheny River, WWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>UNT to Sewickley Creek (2), WWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>

Westmoreland County, Sewickley Township:

Watershed: Sewickley Creek, WWF EV HQ Non-SP
Watershed: UNT to Sewickley Creek (3), WWF EV HQ Non-SP
Watershed: UNT to Kellys Run, WWF EV HQ Non-SP
Watershed: Little Sewickley Creek, TSF EV HQ Non-SP
Watershed: UNT to Little Sewickley Creek, TSF EV HQ Non-SP

Westmoreland County, Hempfield Township:

Watershed: Little Sewickley Creek, TSF EV HQ Non-SP
Watershed: UNT to Little Sewickley Creek (15), TSF EV HQ Non-SP
Watershed: UNT to Brush Creek (6), TSF EV HQ Non-SP

Westmoreland County, Jeannette:

Watershed: Brush Creek, TSF EV HQ Non-SP

Westmoreland County, Penn Township:

Watershed: UNT to Brush Creek, TSF EV HQ Non-SP
Watershed: UNT to Bushy Run, TSF EV HQ Non-SP
Watershed: Bushy Run, TSF EV HQ Non-SP
Watershed: UNT to Turtle Creek (2), TSF EV HQ Non-SP

Westmoreland County, Murrysville:

Watershed: UNT to Turtle Creek (3), TSF EV HQ Non-SP
Watershed: Turtle Creek, TSF EV HQ Non-SP

Westmoreland County, Salem Township:

Watershed: Thorn Run, CWF-HQ EV HQ Non-SP
Watershed: UNT to Beaver Run (19), CWF-HQ EV HQ Non-SP
Watershed: Beaver Run, CWF-HQ EV HQ Non-SP
Watershed: UNT to Porters Run (12), CWF-HQ EV HQ Non-SP
Watershed: Porters Run, CWF-HQ EV HQ Non-SP
Watershed: UNT to Loyalhanna Creek (12), CWF-HQ EV HQ Non-SP
Watershed: UNT to Serviceberry Run (2), WWF-HQ EV HQ Non-SP

Westmoreland County, Loyalhanna:

Watershed: UNT to Serviceberry Run (4), WWF-HQ EV HQ Non-SP
Watershed: Serviceberry Run, WWF-HQ EV HQ Non-SP
Watershed: UNT to Loyalhanna Lake (2), WWF-HQ EV HQ Non-SP
Watershed: UNT to Loyalhanna Creek (8), WWF EV HQ Non-SP
Watershed: Loyalhanna Creek, WWF EV HQ Non-SP
Watershed: UNT to Boatyard Run (8), CWF EV HQ Non-SP

Westmoreland County, Derry Township:

Watershed: Boatyard Run, CWF EV HQ Non-SP
Watershed: UNT to Boatyard Run (12), CWF EV HQ Non-SP
Watershed: UNT to Spruce Run (6), CWF-HQ EV HQ Non-SP
Watershed: Spruce Run, CWF-HQ EV HQ Non-SP
Watershed: UNT to Conemaugh River, CWF EV HQ Non-SP
Watershed: Conemaugh River, WWF EV HQ Non-SP

Indiana County, Burrell Township:

Watershed: Conemaugh River, WWF EV HQ Non-SP
Watershed: UNT to Conemaugh River (5), CWF EV HQ Non-SP
Watershed: UNT to Blacklick Creek (21), CWF EV HQ Non-SP
Watershed: UNT to Toms Run (9), CWF-TSF EV HQ Non-SP
Watershed: Toms Run, CWF-TSF EV HQ Non-SP

Indiana County, West Wheatfield:

Watershed: <u>UNT to Roaring Run (6), CWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>Roaring Run, CWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>UNT to Conemaugh River (2), CWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>West Branch Richards Run, CWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>UNT to West Branch Richards Run (4), CWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>UNT to East Branch Richards Run (7), CWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>East Branch Richards Run, CWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>

Indiana County, East Wheatfield:

Watershed: <u>UNT to Conemaugh River (31), CWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>UNT to Findley Run (15), CWF-HQ</u>	EV <input type="checkbox"/>	HQ <input checked="" type="checkbox"/>	Non-SP <input type="checkbox"/>
Watershed: <u>Findley Run, CWF-HQ</u>	EV <input type="checkbox"/>	HQ <input checked="" type="checkbox"/>	Non-SP <input type="checkbox"/>

Cambria County, Jackson Township:

Watershed: <u>UNT to Findley Run (10), CWF-HQ</u>	EV <input type="checkbox"/>	HQ <input checked="" type="checkbox"/>	Non-SP <input type="checkbox"/>
Watershed: <u>UNT to Laurel Run (10), CWF-HQ</u>	EV <input type="checkbox"/>	HQ <input checked="" type="checkbox"/>	Non-SP <input type="checkbox"/>
Watershed: <u>Laurel Run, CWF-HQ</u>	EV <input type="checkbox"/>	HQ <input checked="" type="checkbox"/>	Non-SP <input type="checkbox"/>
Watershed: <u>Hinckston Run, CWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>UNT to Hinckston Run (10), CWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>UNT to Saltlick Run (24), CWF-HQ</u>	EV <input type="checkbox"/>	HQ <input checked="" type="checkbox"/>	Non-SP <input type="checkbox"/>
Watershed: <u>Saltlick Run, CWF-HQ</u>	EV <input type="checkbox"/>	HQ <input checked="" type="checkbox"/>	Non-SP <input type="checkbox"/>

Cambria County, Cambria Township:

Watershed: <u>Stewart Run, CWF-HQ</u>	EV <input type="checkbox"/>	HQ <input checked="" type="checkbox"/>	Non-SP <input type="checkbox"/>
Watershed: <u>UNT to Stewart Run (7), CWF-HQ</u>	EV <input type="checkbox"/>	HQ <input checked="" type="checkbox"/>	Non-SP <input type="checkbox"/>
Watershed: <u>UNT to Roaring Run (8), CWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>Roaring Run, CWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>Howells Run, CWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>UNT to Howells Run (20), CWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>Sanders Run, CWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>

Cambria County, Munster Township:

Watershed: <u>UNT to North Branch Little Conemaugh River (13), CWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>North Branch Little Conemaugh River, CWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>UNT to Noels Creek (19), CWF-HQ</u>	EV <input type="checkbox"/>	HQ <input checked="" type="checkbox"/>	Non-SP <input type="checkbox"/>
Watershed: <u>Noels Creek, CWF-HQ</u>	EV <input type="checkbox"/>	HQ <input checked="" type="checkbox"/>	Non-SP <input type="checkbox"/>

Cambria County, Cresson Township:

Watershed: <u>UNT to Little Conemaugh River (15), CWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>Little Conemaugh River, CWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>Burgoon Run, CWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>UNT to Burgoon Run (5), CWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>UNT to Bear Rock Run (9), CWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>

Cambria County, Washington Township:

Watershed: <u>UNT to Bear Rock Run, CWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>
Watershed: <u>UNT to Blair Run (3), CWF</u>	EV <input type="checkbox"/>	HQ <input type="checkbox"/>	Non-SP <input checked="" type="checkbox"/>

CD Reviewers: Allegheny County: Matt Gordon; Cambria County: Bobbie Blososky; Indiana County: Andrea Frustaci; Washington County: Nathan Simon; Westmoreland County: Chris Droste

Phased Project? YES NO

Washington County:	Pipeline Area: <u>189</u> acres	Houston Injection Station Area: <u>2.70</u> acres	Total Disturbed Area: <u>192</u> acres
Allegheny County:	Pipeline Area: <u>97</u> acres		Total Disturbed Area: <u>97</u> acres
Westmoreland County:	Pipeline Area: <u>372</u> acres	Delmont Pump Station Area: <u>12.40</u> acres	Total Disturbed Area: <u>385</u> acres
Indiana County:	Pipeline Area: <u>209</u> acres		Total Disturbed Area: <u>209</u> acres
Cambria County:	Pipeline Area: <u>244</u> acres	Ebensburg Pump Station Area: <u>4.44</u> acres	Total Disturbed Area: <u>249</u> acres

E&S Plan components: Reviewed and approved by: CD DEP

PCSM Plan components: Adequate

- Written Narrative
- Plan Drawings
- Identification/location of PCSM BMPs
- Operation & Maintenance Procedures
- Supporting calculations, if required

- o Does BMP selection and location appear reasonable? YES NO Explain: _____
- o Hydrologic Method(s): TR-55
- o Was on-site testing done for soil permeability if infiltration is proposed?
YES NO N/A Explain: _____
- o Does volume of stormwater to be managed equal or exceed net change in volume of runoff (pre to post-construction)?
YES NO N/A Explain: _____
- o Has justification been provided if BMP's will not manage net increase in 2-yr/24-hr runoff volume?
YES NO N/A Explain: _____
- o Are infiltration practices maximized, with respect to site constraints?
YES NO N/A Explain: _____
- o Stormwater Consistency:
 - Act 167 Plan approved and consistency letter provided; **OR**
 - PCSM Plan Meets design criteria of 25 Pa. Code Chapter 102.8(g)(2) and (3); **OR**
 - Alternative Design Standard used per 25 Pa. Code Chapter 102.8(g)(2)(iv) and 102.8(g)(3)(iii)

Summary of the PCSM Plan(s):

Chartiers Run

Design Storm: 2-year (24-hr) Rainfall: 2.38 inches

	<u>Pre-development</u>	<u>Post-development</u>	<u>Net Change</u>
Impervious Area (acre)	<u>0.0</u>	<u>1.095</u>	<u>+1.095</u>
Volume of runoff w/o planned BMPs (acre-ft)	<u>0.041</u>	<u>0.156</u>	<u>+0.115</u>
Volume of runoff reduction (acre-ft)		<u>0.039</u>	<u>-0.02</u>
Peak discharge rate – 2-yr/24-hour storm(cfs)	<u>0.38</u>	<u>0.00</u>	<u>-0.38</u>
Peak discharge rate – 10-yr/24-hour storm(cfs)	<u>1.20</u>	<u>1.18</u>	<u>-0.02</u>
Peak discharge rate – 50-yr/24-hour storm(cfs)	<u>2.38</u>	<u>1.73</u>	<u>-0.65</u>
Peak discharge rate – 100-yr/24-hour storm(cfs)	<u>2.99</u>	<u>1.99</u>	<u>-1.00</u>

Tributary 43017 to Beaver Run (POI-A)

Design Storm: 2-year (24-hr) Rainfall: 2.7 inches

	<u>Pre-development</u>	<u>Post-development</u>	<u>Net Change</u>
Impervious Area (acre)	<u>12.482</u>	<u>14.445</u>	<u>+1.963</u>
Volume of runoff w/o planned BMPs (acre-ft)	<u>3.326</u>	<u>3.466</u>	<u>+0.140</u>

Volume of runoff reduction (acre-ft)		<u>3.170</u>	→	<u>-0.156</u>
Peak discharge rate – 2-yr/24-hour storm(cfs)	<u>37.80</u>	<u>35.52</u>		<u>-2.28</u>
Peak discharge rate – 10-yr/24-hour storm(cfs)	<u>72.79</u>	<u>68.18</u>		<u>-4.61</u>
Peak discharge rate – 50-yr/24-hour storm(cfs)	<u>101.35</u>	<u>94.16</u>		<u>-7.19</u>
Peak discharge rate – 100-yr/24-hour storm(cfs)	<u>113.00</u>	<u>105.00</u>		<u>-8.00</u>

UNT to Turtle Creek (POI-B)

Design Storm: 2-year (24-hr) Rainfall: 2.7 inches

	<u>Pre-development</u>	<u>Post-development</u>	<u>Net Change</u>
Impervious Area (acre)	<u>0.159</u>	<u>0.689</u>	<u>+0.530</u>
Volume of runoff w/o planned BMPs (acre-ft)	<u>0.235</u>	<u>0.256</u>	<u>+0.021</u>
Volume of runoff reduction (acre-ft)		<u>0.184</u>	← <u>-0.051</u>
Peak discharge rate – 2-yr/24-hour storm(cfs)	<u>4.08</u>	<u>2.19</u>	<u>-1.89</u>
Peak discharge rate – 10-yr/24-hour storm(cfs)	<u>8.78</u>	<u>5.09</u>	<u>-3.69</u>
Peak discharge rate – 50-yr/24-hour storm(cfs)	<u>12.72</u>	<u>8.75</u>	<u>-3.97</u>
Peak discharge rate – 100-yr/24-hour storm(cfs)	<u>14.34</u>	<u>10.14</u>	<u>-4.20</u>

UNT to Turtle Creek (POI-C)

Design Storm: 2-year (24-hr) Rainfall: 2.7 inches

	<u>Pre-development</u>	<u>Post-development</u>	<u>Net Change</u>
Impervious Area (acre)	<u>0.157</u>	<u>0.446</u>	<u>+0.289</u>
Volume of runoff w/o planned BMPs (acre-ft)	<u>0.107</u>	<u>0.156</u>	← <u>+0.049</u>
Volume of runoff reduction (acre-ft)		<u>0.100</u>	→ <u>-0.007</u>
Peak discharge rate – 2-yr/24-hour storm(cfs)	<u>1.91</u>	<u>1.49</u>	<u>-0.42</u>
Peak discharge rate – 10-yr/24-hour storm(cfs)	<u>3.89</u>	<u>2.91</u>	<u>-0.98</u>
Peak discharge rate – 50-yr/24-hour storm(cfs)	<u>5.58</u>	<u>4.22</u>	<u>-1.36</u>
Peak discharge rate – 100-yr/24-hour storm(cfs)	<u>6.28</u>	<u>4.75</u>	<u>-1.53</u>

Koontz Road, Westmoreland County

Design Storm: 2-year (24-hr) Rainfall: 2.44 inches

	<u>Pre-development</u>	<u>Post-development</u>	<u>Net Change</u>
Impervious Area (acre)	<u>0.00</u>	<u>0.15</u>	<u>0.15</u>
Volume of runoff w/o planned BMPs (acre-ft)	<u>0.047</u>	<u>0.058</u>	← <u>0.011</u>
Volume of runoff reduction (acre-ft)		<u>0.021</u>	→ <u>-0.026</u>
Peak discharge rate – 2-yr/24-hour storm(cfs)	<u>1.854</u>	<u>1.374</u>	<u>-0.480</u>
Peak discharge rate – 10-yr/24-hour storm(cfs)	<u>3.989</u>	<u>3.125</u>	<u>-0.864</u>
Peak discharge rate – 50-yr/24-hour storm(cfs)	<u>6.779</u>	<u>5.960</u>	<u>-0.819</u>
Peak discharge rate – 100-yr/24-hour storm(cfs)	<u>8.185</u>	<u>7.613</u>	<u>-0.573</u>

Bush Road, Westmoreland County

Design Storm: 2-year (24-hr) Rainfall: 2.45 inches

	<u>Pre-development</u>	<u>Post-development</u>	<u>Net Change</u>
Impervious Area (acre)	<u>0.00</u>	<u>0.15</u>	<u>0.15</u>
Volume of runoff w/o planned BMPs (acre-ft)	<u>0.053</u>	<u>0.058</u>	← <u>0.005</u>

Volume of runoff reduction (acre-ft)		<u>0.018</u>	→ -0.035
Peak discharge rate – 2-yr/24-hour storm(cfs)	<u>5.591</u>	<u>4.797</u>	<u>-0.794</u>
Peak discharge rate – 10-yr/24-hour storm(cfs)	<u>11.44</u>	<u>10.07</u>	<u>-1.37</u>
Peak discharge rate – 50-yr/24-hour storm(cfs)	<u>19.05</u>	<u>17.26</u>	<u>-1.79</u>
Peak discharge rate – 100-yr/24-hour storm(cfs)	<u>22.83</u>	<u>20.87</u>	<u>-1.96</u>

Westinghouse Road, Westmoreland County

Design Storm: 2-year (24-hr) Rainfall: 2.50 inches

	<u>Pre-development</u>	<u>Post-development</u>	<u>Net Change</u>
Impervious Area (acre)	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
Volume of runoff w/o planned BMPs (acre-ft)	<u>0.047</u>	<u>0.058</u>	<u>0.011</u>
Volume of runoff reduction (acre-ft)		<u>0.030</u>	← -0.017
Peak discharge rate – 2-yr/24-hour storm(cfs)	<u>0.744</u>	<u>0.108</u>	<u>-0.636</u>
Peak discharge rate – 10-yr/24-hour storm(cfs)	<u>1.554</u>	<u>0.451</u>	<u>-1.103</u>
Peak discharge rate – 50-yr/24-hour storm(cfs)	<u>2.626</u>	<u>1.141</u>	<u>-1.485</u>
Peak discharge rate – 100-yr/24-hour storm(cfs)	<u>3.161</u>	<u>1.617</u>	<u>-1.544</u>

Newport Road, Indiana County

Design Storm: 2-year (24-hr) Rainfall: 2.51 inches

	<u>Pre-development</u>	<u>Post-development</u>	<u>Net Change</u>
Impervious Area (acre)	<u>0.00</u>	<u>0.31</u>	<u>0.31</u>
Volume of runoff w/o planned BMPs (acre-ft)	<u>0.087</u>	<u>0.120</u>	<u>0.033</u>
Volume of runoff reduction (acre-ft)		<u>0.058</u>	← -0.029
Peak discharge rate – 2-yr/24-hour storm(cfs)	<u>5.466</u>	<u>3.134</u>	<u>-2.332</u>
Peak discharge rate – 10-yr/24-hour storm(cfs)	<u>11.50</u>	<u>7.906</u>	<u>-3.594</u>
Peak discharge rate – 50-yr/24-hour storm(cfs)	<u>19.42</u>	<u>14.31</u>	<u>-5.11</u>
Peak discharge rate – 100-yr/24-hour storm(cfs)	<u>23.37</u>	<u>17.87</u>	<u>-5.50</u>

Chestnut Road, Indiana County

Design Storm: 2-year (24-hr) Rainfall: 2.57 inches

	<u>Pre-development</u>	<u>Post-development</u>	<u>Net Change</u>
Impervious Area (acre)	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
Volume of runoff w/o planned BMPs (acre-ft)	<u>0.024</u>	<u>0.043</u>	<u>0.019</u>
Volume of runoff reduction (acre-ft)		<u>0.017</u>	← -0.007
Peak discharge rate – 2-yr/24-hour storm(cfs)	<u>0.361</u>	<u>0.181</u>	<u>-0.180</u>
Peak discharge rate – 10-yr/24-hour storm(cfs)	<u>3.620</u>	<u>2.318</u>	<u>-1.302</u>
Peak discharge rate – 50-yr/24-hour storm(cfs)	<u>9.841</u>	<u>6.705</u>	<u>-3.136</u>
Peak discharge rate – 100-yr/24-hour storm(cfs)	<u>13.37</u>	<u>9.210</u>	<u>-4.160</u>

Grange Hall Road, Indiana County

Design Storm: 2-year (24-hr) Rainfall: 2.59 inches

	<u>Pre-development</u>	<u>Post-development</u>	<u>Net Change</u>
Impervious Area (acre)	<u>0.00</u>	<u>0.17</u>	<u>0.17</u>
Volume of runoff w/o planned BMPs (acre-ft)	<u>0.027</u>	<u>0.039</u>	← 0.012

Volume of runoff reduction (acre-ft)		<u>0.000</u>	→	<u>-0.027</u>
Peak discharge rate – 2-yr/24-hour storm(cfs)	<u>1.063</u>	<u>0.239</u>		<u>-0.824</u>
Peak discharge rate – 10-yr/24-hour storm(cfs)	<u>2.113</u>	<u>1.135</u>		<u>-0.978</u>
Peak discharge rate – 50-yr/24-hour storm(cfs)	<u>3.557</u>	<u>2.892</u>		<u>-0.665</u>
Peak discharge rate – 100-yr/24-hour storm(cfs)	<u>4.311</u>	<u>3.470</u>		<u>-0.841</u>

Cooney Road, Cambria County

Design Storm: 2-year (24-hr) Rainfall: 2.62 inches

	<u>Pre-development</u>	<u>Post-development</u>	<u>Net Change</u>
Impervious Area (acre)	<u>0.00</u>	<u>0.18</u>	<u>0.18</u>
Volume of runoff w/o planned BMPs (acre-ft)	<u>0.078</u>	<u>0.085</u>	<u>0.007</u>
Volume of runoff reduction (acre-ft)		<u>0.028</u>	← <u>-0.050</u>
Peak discharge rate – 2-yr/24-hour storm(cfs)	<u>2.154</u>	<u>1.399</u>	<u>-0.755</u>
Peak discharge rate – 10-yr/24-hour storm(cfs)	<u>4.315</u>	<u>3.183</u>	<u>-1.132</u>
Peak discharge rate – 50-yr/24-hour storm(cfs)	<u>7.212</u>	<u>5.989</u>	<u>-1.223</u>
Peak discharge rate – 100-yr/24-hour storm(cfs)	<u>8.680</u>	<u>7.181</u>	<u>-1.499</u>

Sanders Run

Design Storm: 2-year (24-hr) Rainfall: 2.8 inches

	<u>Pre-development</u>	<u>Post-development</u>	<u>Net Change</u>
Impervious Area (acre)	<u>3.090</u>	<u>4.924</u>	<u>+1.834</u>
Volume of runoff w/o planned BMPs (acre-ft)	<u>1.994</u>	<u>2.144</u>	← <u>+0.150</u>
Volume of runoff reduction (acre-ft)		<u>1.947</u>	→ <u>-0.047</u>
Peak discharge rate – 2-yr/24-hour storm(cfs)	<u>17.92</u>	<u>16.62</u>	<u>-1.30</u>
Peak discharge rate – 10-yr/24-hour storm(cfs)	<u>53.57</u>	<u>50.17</u>	<u>-3.40</u>
Peak discharge rate – 50-yr/24-hour storm(cfs)	<u>77.46</u>	<u>68.26</u>	<u>-3.06</u>
Peak discharge rate – 100-yr/24-hour storm(cfs)	<u>99.67</u>	<u>99.63</u>	<u>-0.04</u>

Kozak Road, Cambria County

Design Storm: 2-year (24-hr) Rainfall: 2.66 inches

	<u>Pre-development</u>	<u>Post-development</u>	<u>Net Change</u>
Impervious Area (acre)	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
Volume of runoff w/o planned BMPs (acre-ft)	<u>0.027</u>	<u>0.046</u>	← <u>0.019</u>
Volume of runoff reduction (acre-ft)		<u>0.015</u>	→ <u>-0.012</u>
Peak discharge rate – 2-yr/24-hour storm(cfs)	<u>4.055</u>	<u>3.027</u>	<u>-1.028</u>
Peak discharge rate – 10-yr/24-hour storm(cfs)	<u>9.055</u>	<u>9.048</u>	<u>-0.007</u>
Peak discharge rate – 50-yr/24-hour storm(cfs)	<u>15.87</u>	<u>15.62</u>	<u>-0.25</u>
Peak discharge rate – 100-yr/24-hour storm(cfs)	<u>19.44</u>	<u>19.05</u>	<u>-0.39</u>

Co-Located Block Valve Sites:

The following sites were designed as co-located block valve sites:

Pike Street, Washington County: Existing Site, no change in footprint. PCSM not required.

Ross Road, Washington County: Existing Site, no change in footprint. PCSM not required.

Patterson Road, Washington County: Existing Site, no change in footprint. PCSM not required.

Bunola Road, Allegheny County: Existing Site, no change in footprint. PCSM not required.

Collinsburg Road, Westmoreland County: Existing Site, no change in footprint. PCSM not required.

Wachs Road, Westmoreland County: Existing Site, no change in footprint. PCSM not required.

Old Harmony Road, Westmoreland County: Existing Site, no change in footprint. PCSM not required.

Old Chestnut Road, Westmoreland County: Existing Site, no change in footprint. PCSM not required.

Vinco/Route 271, Cambria County: Existing Site, no change in footprint. PCSM not required.

These sites are located at sites that are in an existing gravel condition (i.e. there will be no increase in impervious area). These sites are still considered a construction activity and not a site restoration activity. However, these sites are for the construction of utility infrastructure and the site will be returned to existing conditions; therefore, these sites meet the exception for 25 Pa. Code §§ 102.8(g)(2)(i) & 102.8(g)(2)(ii). Because there is no change in the proposed conditions from the existing conditions, there will be no net change in the post construction runoff from these sites.

Watershed Analysis: (AKA Anti-Degradation Review or Water Quality Analysis)

Adequate Site Analysis:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	N/A <input type="checkbox"/>	Details: _____
Adequate Thermal Impact Analysis:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	N/A <input type="checkbox"/>	Details: _____
Adequate E & S Plan for Antidegradation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	N/A <input type="checkbox"/>	Details: _____
Adequate PCSM Plan & Antidegradation Analysis:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	N/A <input type="checkbox"/>	Details: _____

Comments:

Project Description: Sunoco Pipeline, L.P. (SPLP) proposes to construct and operate the Pennsylvania Pipeline Project (Mariner East 2) that would expand existing pipeline systems to provide natural gas liquid (NGL) transportation. The project involves the installation of two parallel pipelines within a 306.8-mile, 50-foot wide right-of-way (ROW) from Houston, Washington County, Pennsylvania 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 will be installed from Houston (Washington County) to Marcus Hook (Delaware County) (306.8 miles) and a second, 16-inch diameter pipeline, will be installed from Delmont (Westmoreland County) to Marcus Hook (Delaware County) (255.8 miles) in the same ROW. The majority of the pipeline will be installed within the existing Mariner East ROW (approximately 230 miles) and new ROW will be primarily co-located in or adjacent to existing utility corridors.

BMPs Proposed: Infiltration Beds, Underground Storage Pipes (Retention Basin), Infiltration Berms, limited Disturbed Areas, Re-Construct Drainage Pattern Intact within the right-of-way, Rock Construction Entrances with Wash Racks, Compost Filter Socks, Erosion Control Blankets placed within 100-feet of streams, and Restoration BMPs.

Other Permits:

Chapter 105 - Joint Permits:

Washington County: E63-674
Allegheny County: E02-1718
Westmoreland County: E65-973
Indiana County: E32-508
Cambria County: E11-352

TMDL: The TMDLs have been identified in the application, Volume 1, Section 2. Notice of Intent Application, Attachment 3 – Water/Watershed Table, Receiving Waters Table, Pennsylvania Pipeline Project, Southwest Region.

Potentially Pollution Causing Materials: The Applicant answered “No” to Section C. Project Information, Question 8: “Other Pollutants: Will the stormwater discharge contain polluttional substances other than sediment?”

Riparian Buffer/Equivalency/Offsetting: The Applicant has requested a waiver of the Riparian Buffer requirements per Chapter 102.14(d)(2)(ii) at the locations identified in the application, Volume 1, 2. Notice of Intent Application, Attachment 6 – Riparian Buffer Waiver Request Information, Table 2, Riparian Buffer Waiver Information, Southwest Region. The requested waivers are recommended to be approved at the locations requested.

Other Comments:

The areas tributary to both the Simon and Minick ponds in Nottingham Township, Washington County were reviewed to confirm Erosion Control Facilities were provided to address concerns of accelerated erosion. A note was provided to the Soil Erosion and Sedimentation Control Plans requiring field review of the erosion control measures by both WCCD and DEP staff prior to earth disturbance activities in this area.

The Public Comments received by the DEP were considered in the review of the application.

The Applicant provided an Anti-Degradation Analysis for Special Protection watersheds, and Non-Special protection watersheds which have a TMDL or Impaired Waters. The Applicant has provided ABACT BMPs in these watersheds.

Recommendation:

Issuance: This application has been reviewed and, based on the submitted information, the application has been found to be **adequate** and satisfactorily addresses the administrative and technical requirements for the NPDES Construction Permitting Program and the antidegradation requirements found at 93.4c.

Denial/ Return/ Withdrawal: (circle one). This application has been reviewed and based on the submitted information; the application has been found to be **inadequate** and does **not** satisfactorily address the administrative and/or technical requirements for the NPDES Construction Permitting Program and/or Antidegradation requirements found in 93.4... Deficiencies were not resolved during the permit review process.

Reviewer: Timothy R. McClelland

Initials/Date: TRM 2/10/2017

