

**PRP Report and Strategy Plan for Willistown Township  
MS4 Individual Permit Application 2018**

**Appendix G - Amended 01-28-22**

**Loading Rate Calculations For Each Sewershed to Final Outfall**

**PRP Report and Strategy Plan for Willistown Township  
MS4 Individual Permit Application 2018**

Ridley Creek Loading Rates

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRC1

AREA (ac) = 8.02 Actual Per MS4 Map  
 AREA (ft2) = 349,351.20 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	286,516.46	85.6	6.86	19	1.30	5.56
Developed, Low Intensity	35,412.15	10.6	0.85	49	0.42	0.43
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	12,877.15	2.9	0.23			0.23
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>334,805.76</b>		<b>7.94</b>		<b>1.72</b>	<b>6.22</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	1.72	1,504.78	2,588.22
Pervious Acres	6.22	185.12	1,151.45
<b>TOTALS</b>	<b>7.94</b>		<b>3,739.67</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRC2

AREA (ac) = 7.39 Actual Per MS4 Map  
 AREA (ft2) = 321,908.40 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	292,954.91	93.8	6.93	19	1.32	5.62
Developed, Low Intensity	19,315.71	6.2	0.46	49	0.22	0.23
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	0.00	0.0	0.00			0.00
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>312,270.62</b>		<b>7.39</b>		<b>1.54</b>	<b>5.85</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	1.54	1,504.78	2,317.36
Pervious Acres	5.85	185.12	1,082.95
<b>TOTALS</b>	<b>7.39</b>		<b>3,400.31</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRC3

AREA (ac) = 17.36 Actual Per MS4 Map  
 AREA (ft2) = 756,201.60 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	605,225.74	78.4	13.61	19	2.59	11.02
Developed, Low Intensity	9,657.86	1.3	0.22	49	0.11	0.11
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	144,867.87	18.7	3.25			3.25
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	12,877.15	1.6	0.29			0.29
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>772,628.62</b>		<b>17.36</b>		<b>2.69</b>	<b>14.67</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	2.69	1,504.78	4,047.86
Pervious Acres	14.67	185.12	2,715.71
<b>TOTALS</b>	<b>17.36</b>		<b>6,763.57</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRC4

AREA (ac) = 62.44 Actual Per MS4 Map

AREA (ft2) = 2,719,886.40 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	2,501,385.07	93.2	58.18	19	11.05	47.12
Developed, Low Intensity	154,525.72	5.8	3.60	49	1.76	1.83
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	28,973.57	1.1	0.67			0.67
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>2,684,884.36</b>		<b>62.45</b>		<b>12.82</b>	<b>49.63</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	12.82	1,504.78	19,291.28
Pervious Acres	49.63	185.12	9,187.51
<b>TOTALS</b>	<b>62.45</b>		<b>28,478.79</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRC5

AREA (ac) = 12.75 Actual Per MS4 Map

AREA (ft2) = 555,390.00 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	451,138.75	77.2	9.84	19	1.87	7.97
Developed, Low Intensity	29,306.91	4.9	0.62	49	0.31	0.32
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	106,236.47	17.9	2.29			2.29
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>586,682.14</b>		<b>12.75</b>		<b>2.18</b>	<b>10.57</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	2.18	1,504.78	3,280.42
Pervious Acres	10.57	185.12	1,956.72
<b>TOTALS</b>	<b>12.75</b>		<b>5,237.14</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRC6

AREA (ac) = 21.53 Actual Per MS4 Map

AREA (ft2) = 937,846.80 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	366,998.85	38.6	8.32	19	1.58	6.74
Developed, Low Intensity	48,289.32	5.1	1.10	49	0.54	0.56
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	61,166.48	6.4	1.39			1.39
Evergreen Forest	19,315.73	2.0	0.44			0.44
Mixed Forest	212,473.02	22.4	4.82			4.82
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	241,446.61	25.4	5.47			5.47
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>949,690.01</b>		<b>21.53</b>		<b>2.12</b>	<b>19.41</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	2.12	1,504.78	3,190.13
Pervious Acres	19.41	185.12	3,593.18
<b>TOTALS</b>	<b>21.53</b>		<b>6,783.31</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRC7

AREA (ac) = 7.67 Actual Per MS4 Map  
 AREA (ft2) = 334,105.20 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	247,885.42	74.8	5.74	19	1.09	4.65
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	83,701.57	25.2	1.93			1.93
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>331,586.99</b>		<b>7.67</b>		<b>1.09</b>	<b>6.58</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	1.09	1,504.78	1,640.21
Pervious Acres	6.58	185.12	1,218.09
<b>TOTALS</b>	<b>7.67</b>		<b>2,858.30</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCC8

AREA (ac) = 30.76 Actual Per MS4 Map  
 AREA (ft2) = 1,339,905.60 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	553,717.92	42.9	13.20	19	2.51	10.69
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	9,657.87	0.8	0.25	79	0.19	0.05
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	515,086.43	39.9	12.27			12.27
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	86,920.84	6.7	2.06			2.06
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	93,359.42	7.2	2.21			2.21
Cultivated Crops	32,192.90	2.5	0.77			0.77
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>1,290,935.38</b>		<b>30.80</b>		<b>2.70</b>	<b>28.06</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	2.70	1,504.78	4,062.91
Pervious Acres	28.06	185.12	5,194.47
<b>TOTALS</b>	<b>30.76</b>		<b>9,257.37</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRC10

AREA (ac) = 4.73 Actual Per MS4 Map  
 AREA (ft2) = 206,038.80 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	160,964.64	72.4	3.43	19	0.65	2.77
Developed, Low Intensity	28,973.64	13.1	0.62	49	0.30	0.32
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	19,315.76	8.7	0.41			0.41
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	12,877.17	5.8	0.27			0.27
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	222,131.21		4.73		0.95	3.78

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.95	1,504.78	1,429.54
Pervious Acres	3.78	185.12	699.75
<b>TOTALS</b>	4.73		2,129.29

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRC12

AREA (ac) = 7.06 Actual Per MS4 Map  
 AREA (ft2) = 307,577.16 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	57,947.30	18.9	1.34	19	0.25	1.08
Developed, Low Intensity	9,657.92	3.1	0.22	49	0.11	0.11
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	0.00	0.0	0.00			0.00
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	28,973.61	9.2	0.65			0.65
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	212,473.24	68.7	4.85			4.85
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>309,052.07</b>		<b>7.06</b>		<b>0.36</b>	<b>6.70</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.36	1,504.78	541.72
Pervious Acres	6.70	185.12	1,240.30
<b>TOTALS</b>	<b>7.06</b>		<b>1,782.02</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRC13

AREA (ac) = 14.42 Actual Per MS4 Map  
 AREA (ft2) = 628,135.20 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	131,991.02	20.9	3.01	19	0.57	2.44
Developed, Low Intensity	26,087.68	4.1	0.59	49	0.29	0.30
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	45,070.10	7.0	1.01			1.01
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	9,657.88	1.5	0.22			0.22
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	418,508.10	66.4	9.57			9.57
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>631,314.78</b>		<b>14.41</b>		<b>0.86</b>	<b>13.54</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.86	1,504.78	1,294.11
Pervious Acres	13.54	185.12	2,506.52
<b>TOTALS</b>	<b>14.40</b>		<b>3,800.64</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRC22

AREA (ac) = 15.51 Actual Per MS4 Map  
 AREA (f2) = 675,585.11 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	160,965.39	37.0	5.74	19	1.09	4.65
Developed, Low Intensity	3,219.32	0.5	0.08	49	0.04	0.04
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	173,842.16	54.8	8.50			8.50
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	38,631.79	5.8	0.90			0.90
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	9,991.28	1.5	0.23			0.23
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	3,219.32	0.5	0.08			0.08
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>389,869.26</b>		<b>15.52</b>		<b>1.13</b>	<b>14.40</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	1.13	1,504.78	1,700.40
Pervious Acres	14.40	185.12	2,665.73
<b>TOTALS</b>	<b>15.53</b>		<b>4,366.13</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRC23

AREA (ac) = 24.39 Actual Per MS4 Map  
 AREA (ft2) = 1,062,354.35 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	170,623.69	15.3	3.73	19	0.71	3.02
Developed, Low Intensity	16,096.57	1.4	0.34	49	0.17	0.17
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	206,036.16	18.5	4.51			4.51
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	96,579.45	8.7	2.12			2.12
Shrub/Scrub	189,939.58	17.1	4.17			4.17
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	379,879.17	34.1	8.32			8.32
Cultivated Crops	45,070.41	4.1	1.00			1.00
Woody Wetlands	9,657.94	0.9	0.22			0.22
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>1,113,882.97</b>		<b>24.41</b>		<b>0.88</b>	<b>23.54</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.88	1,504.78	1,324.21
Pervious Acres	23.54	185.12	4,357.72
<b>TOTALS</b>	<b>24.42</b>		<b>5,681.93</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRC24b

AREA (ac) = 40.35 Actual Per MS4 Map  
 AREA (ft2) = 1,757,746.19 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	1,149,297.09	65.3	26.35	19	5.01	21.34
Developed, Low Intensity	32,193.17	1.8	0.73	49	0.36	0.37
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	225,352.40	12.8	5.17			5.17
Evergreen Forest	48,289.81	2.7	1.09			1.09
Mixed Forest	144,869.43	8.2	3.31			3.31
Shrub/Scrub	80,482.98	4.6	1.86			1.86
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	12,877.26	0.7	0.28			0.28
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	67,605.75	3.8	1.53			1.53
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>1,760,967.89</b>		<b>40.31</b>		<b>5.36</b>	<b>34.95</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	5.36	1,504.78	8,065.62
Pervious Acres	34.95	185.12	6,469.94
<b>TOTALS</b>	<b>40.31</b>		<b>14,535.56</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRC25a

AREA (ac) = 7.71 Actual Per MS4 Map  
 AREA (ft2) = 335,847.60 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	286,519.26	85.5	6.59	19	1.25	5.34
Developed, Low Intensity	19,315.94	5.8	0.45	49	0.22	0.23
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	0.00	0.0	0.00			0.00
Evergreen Forest	28,973.86	8.7	0.67			0.67
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>334,809.07</b>		<b>7.71</b>		<b>1.47</b>	<b>6.24</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	1.47	1,504.78	2,212.03
Pervious Acres	6.24	185.12	1,155.15
<b>TOTALS</b>	<b>7.71</b>		<b>3,367.18</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRC25b

AREA (ac) = 20.44 Actual Per MS4 Map  
 AREA (ft2) = 890,366.40 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	556,942.09	61.7	12.61	19	2.40	10.22
Developed, Low Intensity	54,728.42	6.1	1.25	49	0.61	0.64
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	0.00	0.0	0.00			0.00
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	54,728.42	6.1	1.25			1.25
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	235,010.25	26.1	5.33			5.33
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>901,409.18</b>		<b>20.44</b>		<b>3.01</b>	<b>17.43</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	3.01	1,504.78	4,529.39
Pervious Acres	17.43	185.12	3,226.64
<b>TOTALS</b>	<b>20.44</b>		<b>7,756.03</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRC26

AREA (ac) = 4.46 Actual Per MS4 Map  
 AREA (ft2) = 194,142.56 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	144,869.36	70.3	3.13	19	0.60	2.54
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	12,877.27	6.3	0.28			0.28
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	48,289.79	23.5	1.05			1.05
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	206,036.42		4.46		0.60	3.87

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.60	1,504.78	902.87
Pervious Acres	3.87	185.12	716.41
<b>TOTALS</b>	4.47		1,619.28

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRC27

AREA (ac) = 2.39 Actual Per MS4 Map  
 AREA (m2) = 104,291.35 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	48,289.80	41.7	1.00	19	0.19	0.81
Developed, Low Intensity	9,657.96	8.3	0.20	49	0.10	0.10
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	38,631.84	33.3	0.80			0.80
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	19,315.92	16.7	0.40			0.40
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	115,895.52		2.39		0.29	2.11

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.29	1,504.78	436.39
Pervious Acres	2.11	185.12	390.60
<b>TOTALS</b>	2.40		826.99

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRC28

AREA (ac) = 4.14 Actual Per MS4 Map  
 AREA (m2) = 16,754.05 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (m2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	4,187.18	27.4	1.13	19	0.22	0.92
Developed, Low Intensity	4,486.26	29.5	1.22	49	0.60	0.62
Developed, Medium Intensity	5,383.52	35.4	1.47	79	1.16	0.31
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	897.25	5.9	0.24			0.24
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	299.08	1.9	0.08			0.08
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>15,253.29</b>		<b>4.14</b>		<b>1.97</b>	<b>2.17</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	1.97	1,504.78	2,964.42
Pervious Acres	2.17	185.12	401.71
<b>TOTALS</b>	<b>4.14</b>		<b>3,366.13</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRCTR-A

AREA (ac) = 10.74 Per MS4 Map  
 AREA (ft2) = 467,834.40 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.00	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	173,841.55	35.1	3.77	19	0.72	3.05
Developed, Low Intensity	3,219.29	0.6	0.06	49	0.03	0.03
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	238,227.31	48.1	5.17			5.17
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	32,192.88	6.5	0.70			0.70
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	48,289.32	9.7	1.04			1.04
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>495,770.35</b>		<b>10.74</b>		<b>0.75</b>	<b>9.99</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.75	1,504.78	1,128.59
Pervious Acres	9.99	185.12	1,849.35
<b>TOTALS</b>	<b>10.74</b>		<b>2,977.93</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRCTR-B

AREA (ac) = 24.09 Per MS4 Map  
 AREA (ft2) = 1,049,329.91 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.00	0.00			0.00
Perennial Ice/Snow	0.00	0.00	0.00			0.00
Developed, Open Space	328,367.59	30.91	7.45	19	1.41	6.03
Developed, Low Intensity	9,657.87	0.91	0.22	49	0.11	0.11
Developed, Medium Intensity	0.00	0.00	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.00	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.00	0.00			0.00
Deciduous Forest	241,446.76	22.73	5.48			5.48
Evergreen Forest	0.00	0.00	0.00			0.00
Mixed Forest	19,315.74	1.82	0.44			0.44
Shrub/Scrub	251,104.63	23.64	5.69			5.69
Grassland/Herbaceous	0.00	0.00	0.00			0.00
Pasture/Hay	212,473.15	20.00	4.82			4.82
Cultivated Crops	0.00	0.00	0.00			0.00
Woody Wetlands	0.00	0.00	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.00	0.00			0.00
<b>TOTALS</b>	<b>1,062,365.74</b>		<b>24.09</b>		<b>1.52</b>	<b>22.57</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	1.52	1,504.78	2,287.27
Pervious Acres	22.57	185.12	4,178.16
<b>TOTALS</b>	<b>24.09</b>		<b>6,465.42</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRCTR-C

AREA (ac) = 42.93 Per MS4 Map  
 AREA (ft2) = 1,869,943.68 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.00	0.00			0.00
Perennial Ice/Snow	0.00	0.00	0.00			0.00
Developed, Open Space	624,541.90	32.98	14.16	19	2.69	11.47
Developed, Low Intensity	77,262.92	4.08	1.75	49	0.86	0.89
Developed, Medium Intensity	0.00	0.00	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.00	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.00	0.00			0.00
Deciduous Forest	408,849.59	21.60	9.27			9.27
Evergreen Forest	0.00	0.00	0.00			0.00
Mixed Forest	93,359.35	4.94	2.12			2.12
Shrub/Scrub	225,350.17	11.90	5.11			5.11
Grassland/Herbaceous	0.00	0.00	0.00			0.00
Pasture/Hay	463,577.49	24.49	10.51			10.51
Cultivated Crops	0.00	0.00	0.00			0.00
Woody Wetlands	0.00	0.00	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.00	0.00			0.00
<b>TOTALS</b>	<b>1,892,941.42</b>		<b>42.93</b>		<b>3.55</b>	<b>39.38</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	3.55	1,504.78	5,341.97
Pervious Acres	39.38	185.12	7,290.03
<b>TOTALS</b>	<b>42.93</b>		<b>12,631.99</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRCTR-D

AREA (ac) = 22.17 Per MS4 Map  
 AREA (ft2) = 965,729.56 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.00	0.00			0.00
Perennial Ice/Snow	0.00	0.00	0.00			0.00
Developed, Open Space	350,902.51	36.95	8.19	19	1.56	6.64
Developed, Low Intensity	77,262.94	8.14	1.80	49	0.88	0.92
Developed, Medium Intensity	0.00	0.00	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.00	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.00	0.00			0.00
Deciduous Forest	41,850.76	4.39	0.97			0.97
Evergreen Forest	0.00	0.00	0.00			0.00
Mixed Forest	38,631.47	4.07	0.90			0.90
Shrub/Scrub	96,578.67	10.17	2.26			2.26
Grassland/Herbaceous	0.00	0.00	0.00			0.00
Pasture/Hay	160,964.46	16.95	3.76			3.76
Cultivated Crops	183,499.48	19.33	4.28			4.28
Woody Wetlands	0.00	0.00	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.00	0.00			0.00
<b>TOTALS</b>	<b>949,690.29</b>		<b>22.17</b>		<b>2.44</b>	<b>19.73</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	2.44	1,504.78	3,671.66
Pervious Acres	19.73	185.12	3,652.42
<b>TOTALS</b>	<b>22.17</b>		<b>7,324.08</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRCTR-E

AREA (ac) = 22.95 Per MS4 Map  
 AREA (ft2) = 999,641.02 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	48,289.37	4.95	1.14			1.14
Perennial Ice/Snow	0.00	0.00	0.00			0.00
Developed, Open Space	267,201.17	27.39	6.29	19	1.19	5.09
Developed, Low Intensity	0.00	0.00	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.00	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.00	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.00	0.00			0.00
Deciduous Forest	659,954.69	67.66	15.53			15.53
Evergreen Forest	0.00	0.00	0.00			0.00
Mixed Forest	0.00	0.00	0.00			0.00
Shrub/Scrub	0.00	0.00	0.00			0.00
Grassland/Herbaceous	0.00	0.00	0.00			0.00
Pasture/Hay	0.00	0.00	0.00			0.00
Cultivated Crops	0.00	0.00	0.00			0.00
Woody Wetlands	0.00	0.00	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.00	0.00			0.00
<b>TOTALS</b>	<b>975,445.23</b>		<b>22.95</b>		<b>1.19</b>	<b>21.75</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	1.19	1,504.78	1,790.69
Pervious Acres	21.75	185.12	4,026.36
<b>TOTALS</b>	<b>22.94</b>		<b>5,817.05</b>



**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRCTR-G

AREA (ac) = 5.19 Per MS4 Map  
 AREA (ft2) = 226,080.76 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.00	0.00			0.00
Perennial Ice/Snow	0.00	0.00	0.00			0.00
Developed, Open Space	77,262.99	32.14	1.67	19	0.32	1.35
Developed, Low Intensity	0.00	0.00	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.00	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.00	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.00	0.00			0.00
Deciduous Forest	164,183.85	67.86	3.52			3.52
Evergreen Forest	0.00	0.00	0.00			0.00
Mixed Forest	0.00	0.00	0.00			0.00
Shrub/Scrub	0.00	0.00	0.00			0.00
Grassland/Herbaceous	0.00	0.00	0.00			0.00
Pasture/Hay	0.00	0.00	0.00			0.00
Cultivated Crops	0.00	0.00	0.00			0.00
Woody Wetlands	0.00	0.00	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.00	0.00			0.00
<b>TOTALS</b>	<b>241,446.84</b>		<b>5.19</b>		<b>0.32</b>	<b>4.87</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.32	1,504.78	481.53
Pervious Acres	4.87	185.12	901.53
<b>TOTALS</b>	<b>5.19</b>		<b>1,383.06</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRCTR-H

AREA (ac) = 40.34 Per MS4 Map  
 AREA (ft2) = 1,757,219.11 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.00	0.00			0.00
Perennial Ice/Snow	0.00	0.00	0.00			0.00
Developed, Open Space	193,158.81	11.11	4.48	19	0.85	3.63
Developed, Low Intensity	77,263.52	4.44	1.79	49	0.88	0.91
Developed, Medium Intensity	0.00	0.00	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.00	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.00	0.00			0.00
Deciduous Forest	511,870.84	29.44	11.88			11.88
Evergreen Forest	0.00	0.00	0.00			0.00
Mixed Forest	0.00	0.00	0.00			0.00
Shrub/Scrub	141,649.79	8.15	3.29			3.29
Grassland/Herbaceous	0.00	0.00	0.00			0.00
Pasture/Hay	682,494.46	39.26	15.84			15.84
Cultivated Crops	0.00	0.00	0.00			0.00
Woody Wetlands	131,991.85	7.59	3.06			3.06
Emergent Herbaceous Wetlands	0.00	0.00	0.00			0.00
<b>TOTALS</b>	<b>1,738,429.27</b>		<b>40.34</b>		<b>1.73</b>	<b>38.61</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	1.73	1,504.78	2,603.27
Pervious Acres	38.61	185.12	7,147.48
<b>TOTALS</b>	<b>40.34</b>		<b>9,750.75</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRCTR-I

AREA (ac) = 4.04 Per MS4 Map  
 AREA (ft2) = 176,117.44 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.00	0.00			0.00
Perennial Ice/Snow	0.00	0.00	0.00			0.00
Developed, Open Space	48,289.72	27.84	1.13	19	0.21	0.91
Developed, Low Intensity	0.00	0.00	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.00	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.00	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.00	0.00			0.00
Deciduous Forest	83,702.18	48.14	1.95			1.95
Evergreen Forest	0.00	0.00	0.00			0.00
Mixed Forest	0.00	0.00	0.00			0.00
Shrub/Scrub	32,193.14	18.46	0.75			0.75
Grassland/Herbaceous	0.00	0.00	0.00			0.00
Pasture/Hay	0.00	0.00	0.00			0.00
Cultivated Crops	0.00	0.00	0.00			0.00
Woody Wetlands	9,657.94	5.57	0.23			0.23
Emergent Herbaceous Wetlands	0.00	0.00	0.00			0.00
<b>TOTALS</b>	<b>173,842.98</b>		<b>4.04</b>		<b>0.21</b>	<b>3.83</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.21	1,504.78	316.00
Pervious Acres	3.83	185.12	709.01
<b>TOTALS</b>	<b>4.04</b>		<b>1,025.01</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRCTR-J

AREA (ac) = 5.99 Per MS4 Map  
 AREA (ft2) = 261,055.08 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.00	0.00			0.00
Perennial Ice/Snow	0.00	0.00	0.00			0.00
Developed, Open Space	180,281.80	68.37	4.10	19	0.78	3.32
Developed, Low Intensity	9,657.95	3.67	0.22	49	0.11	0.11
Developed, Medium Intensity	38,631.81	14.66	0.88	79	0.69	0.18
Developed, High Intensity	19,315.91	7.33	0.44	100	0.44	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.00	0.00			0.00
Deciduous Forest	0.00	0.00	0.00			0.00
Evergreen Forest	0.00	0.00	0.00			0.00
Mixed Forest	0.00	0.00	0.00			0.00
Shrub/Scrub	16,096.59	5.96	0.36			0.36
Grassland/Herbaceous	0.00	0.00	0.00			0.00
Pasture/Hay	0.00	0.00	0.00			0.00
Cultivated Crops	0.00	0.00	0.00			0.00
Woody Wetlands	0.00	0.00	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.00	0.00			0.00
<b>TOTALS</b>	<b>263,984.06</b>		<b>5.99</b>		<b>2.02</b>	<b>3.97</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	2.02	1,504.78	3,039.66
Pervious Acres	3.97	185.12	734.93
<b>TOTALS</b>	<b>5.99</b>		<b>3,774.58</b>

**Table 3b: TOTAL PHOSPHOROUS - TP LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.00	734.93	0.00
Pervious Acres	0.00	3,774.58	0.00
<b>TOTALS</b>	<b>0.00</b>		<b>0.00</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRCTR-K

AREA (ac) = 21.79 Per MS4 Map  
 AREA (ft2) = 949,089.64 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.00	0.00			0.00
Perennial Ice/Snow	0.00	0.00	0.00			0.00
Developed, Open Space	766,197.79	78.03	17.00	19	3.23	13.77
Developed, Low Intensity	77,263.64	7.87	1.72	49	0.84	0.87
Developed, Medium Intensity	9,657.96	0.98	0.21	79	0.17	0.04
Developed, High Intensity	0.00	0.00	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.00	0.00			0.00
Deciduous Forest	0.00	0.00	0.00			0.00
Evergreen Forest	19,315.91	1.97	0.43			0.43
Mixed Forest	0.00	0.00	0.00			0.00
Shrub/Scrub	109,456.83	11.15	2.43			2.43
Grassland/Herbaceous	0.00	0.00	0.00			0.00
Pasture/Hay	0.00	0.00	0.00			0.00
Cultivated Crops	0.00	0.00	0.00			0.00
Woody Wetlands	0.00	0.00	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.00	0.00			0.00
<b>TOTALS</b>	<b>981,892.13</b>		<b>21.79</b>		<b>4.24</b>	<b>17.55</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	4.24	1,504.78	6,380.27
Pervious Acres	17.55	185.12	3,248.86
<b>TOTALS</b>	<b>21.79</b>		<b>9,629.12</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRCTR-L

AREA (ac) = 8.12 Per MS4 Map  
 AREA (ft2) = 353,789.96 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.00	0.00			0.00
Perennial Ice/Snow	0.00	0.00	0.00			0.00
Developed, Open Space	154,527.26	43.56	3.54	19	0.67	2.87
Developed, Low Intensity	90,140.90	25.45	2.07	49	1.01	1.05
Developed, Medium Intensity	19,315.91	5.47	0.44	79	0.35	0.09
Developed, High Intensity	0.00	0.00	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.00	0.00			0.00
Deciduous Forest	0.00	0.00	0.00			0.00
Evergreen Forest	67,605.68	19.13	1.55			1.55
Mixed Forest	0.00	0.00	0.00			0.00
Shrub/Scrub	22,535.23	6.39	0.52			0.52
Grassland/Herbaceous	0.00	0.00	0.00			0.00
Pasture/Hay	0.00	0.00	0.00			0.00
Cultivated Crops	0.00	0.00	0.00			0.00
Woody Wetlands	0.00	0.00	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.00	0.00			0.00
<b>TOTALS</b>	<b>354,124.98</b>		<b>8.12</b>		<b>2.04</b>	<b>6.09</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	2.04	1,504.78	3,069.75
Pervious Acres	6.09	185.12	1,127.38
<b>TOTALS</b>	<b>8.13</b>		<b>4,197.13</b>

**Table 3b: TOTAL PHOSPHOROUS - TP LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.00	1,127.38	0.00
Pervious Acres	0.00	4,197.13	0.00
<b>TOTALS</b>	<b>0.00</b>		<b>0.00</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRCTR-M

AREA (ac) = 7.01 Per MS4 Map  
 AREA (ft2) = 305,429.65 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.00	0.00			0.00
Perennial Ice/Snow	0.00	0.00	0.00			0.00
Developed, Open Space	254,326.14	84.02	5.89	19	1.12	4.77
Developed, Low Intensity	28,973.76	9.59	0.67	49	0.33	0.34
Developed, Medium Intensity	0.00	0.00	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.00	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.00	0.00			0.00
Deciduous Forest	19,315.91	6.39	0.45			0.45
Evergreen Forest	0.00	0.00	0.00			0.00
Mixed Forest	0.00	0.00	0.00			0.00
Shrub/Scrub	0.00	0.00	0.00			0.00
Grassland/Herbaceous	0.00	0.00	0.00			0.00
Pasture/Hay	0.00	0.00	0.00			0.00
Cultivated Crops	0.00	0.00	0.00			0.00
Woody Wetlands	0.00	0.00	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.00	0.00			0.00
<b>TOTALS</b>	<b>302,615.81</b>		<b>7.01</b>		<b>1.45</b>	<b>5.56</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	1.45	1,504.78	2,181.93
Pervious Acres	5.56	185.12	1,029.27
<b>TOTALS</b>	<b>7.01</b>		<b>3,211.20</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSRCTR-N

AREA (ac) = 2.99 Per MS4 Map  
 AREA (ft2) = 130,174.70 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.00	0.00			0.00
Perennial Ice/Snow	0.00	0.00	0.00			0.00
Developed, Open Space	77,263.64	53.33	1.59	19	0.30	1.29
Developed, Low Intensity	19,315.91	13.33	0.40	49	0.20	0.20
Developed, Medium Intensity	0.00	0.00	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.00	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.00	0.00			0.00
Deciduous Forest	48,289.77	33.33	1.00			1.00
Evergreen Forest	0.00	0.00	0.00			0.00
Mixed Forest	0.00	0.00	0.00			0.00
Shrub/Scrub	0.00	0.00	0.00			0.00
Grassland/Herbaceous	0.00	0.00	0.00			0.00
Pasture/Hay	0.00	0.00	0.00			0.00
Cultivated Crops	0.00	0.00	0.00			0.00
Woody Wetlands	0.00	0.00	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.00	0.00			0.00
<b>TOTALS</b>	<b>144,869.32</b>		<b>2.99</b>		<b>0.50</b>	<b>2.49</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.50	1,504.78	752.39
Pervious Acres	2.49	185.12	460.95
<b>TOTALS</b>	<b>2.99</b>		<b>1,213.34</b>



**PRP Report and Strategy Plan for Willistown Township  
MS4 Individual Permit Application 2018**

Crum Creek Loading Rates

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCC9

AREA (ac) = 135.66 Actual Per MS4 Map  
 AREA (ft2) = 5,909,349.60 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	4,243,019.75	71.6	97.13	19	18.46	78.68
Developed, Low Intensity	241,446.49	4.1	5.56	49	2.73	2.84
Developed, Medium Intensity	22,535.00	0.4	0.54	79	0.43	0.11
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	695,365.91	11.7	15.87			15.87
Evergreen Forest	289,735.84	4.9	6.65			6.65
Mixed Forest	206,027.16	3.5	4.75			4.75
Shrub/Scrub	164,183.65	2.8	3.80			3.80
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	38,631.46	0.6	0.81			0.81
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	22,535.00	0.4	0.54			0.54
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>5,923,480.25</b>		<b>135.66</b>		<b>21.61</b>	<b>114.05</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	21.61	1,504.78	32,518.30
Pervious Acres	114.05	185.12	21,112.94
<b>TOTALS</b>	<b>135.66</b>		<b>53,631.23</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCC10

AREA (ac) = 18.72 Actual Per MS4 Map  
 AREA (ft2) = 815,652.29 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	492,551.56	57.7	10.80	19	2.05	8.75
Developed, Low Intensity	99,798.03	11.7	2.19	49	1.07	1.12
Developed, Medium Intensity	38,631.49	4.5	0.84	79	0.67	0.18
Developed, High Intensity	9,657.87	1.1	0.21	100	0.21	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	189,938.18	22.3	4.18			4.18
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	9,657.87	1.1	0.21			0.21
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	12,877.16	1.5	0.28			0.28
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>853,112.17</b>		<b>18.71</b>		<b>4.00</b>	<b>14.71</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	4.00	1,504.78	6,019.12
Pervious Acres	14.71	185.12	2,723.12
<b>TOTALS</b>	<b>18.71</b>		<b>8,742.24</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCC12

AREA (ac) = 9.31 Actual Per MS4 Map  
 AREA (ft2) = 405,748.33 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	218,911.84	52.0	4.84	19	0.92	3.92
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	167,403.17	39.6	3.69			3.69
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	35,412.21	8.4	0.78			0.78
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>421,727.22</b>		<b>9.31</b>		<b>0.92</b>	<b>8.39</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.92	1,504.78	1,384.40
Pervious Acres	8.39	185.12	1,553.16
<b>TOTALS</b>	<b>9.31</b>		<b>2,937.55</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCC13

AREA (ac) = 16.58 Actual Per MS4 Map  
 AREA (ft2) = 722,250.94 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	215,692.60	29.4	4.87	19	0.93	3.95
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	479,674.59	65.4	10.84			10.84
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	19,315.76	2.6	0.43			0.43
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	19,315.76	2.6	0.43			0.43
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>733,998.70</b>		<b>16.58</b>		<b>0.93</b>	<b>15.65</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.93	1,504.78	1,399.45
Pervious Acres	15.65	185.12	2,897.13
<b>TOTALS</b>	<b>16.58</b>		<b>4,296.57</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCC18

AREA (ac) = 27.69 Actual Per MS4 Map  
 AREA (ft2) = 1,206,180.76 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	659,954.87	53.5	14.81	19	2.81	12.00
Developed, Low Intensity	9,657.88	0.8	0.22	49	0.11	0.11
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	486,113.09	39.4	10.91			10.91
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	16,096.46	1.3	0.36			0.36
Shrub/Scrub	61,166.55	5.0	1.38			1.38
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>1,232,988.85</b>		<b>27.69</b>		<b>2.92</b>	<b>24.77</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	2.92	1,504.78	4,393.96
Pervious Acres	24.77	185.12	4,585.42
<b>TOTALS</b>	<b>27.69</b>		<b>8,979.38</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCC19

AREA (ac) = 39.45 Actual Per MS4 Map  
 AREA (ft2) = 1,718,224.20 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	837,015.99	47.3	18.66	19	3.54	15.11
Developed, Low Intensity	35,412.22	2.0	0.79	49	0.39	0.40
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	872,428.20	49.3	19.45			19.45
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	25,754.34	1.5	0.59			0.59
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>1,770,610.74</b>		<b>39.48</b>		<b>3.93</b>	<b>35.55</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	3.93	1,504.78	5,913.79
Pervious Acres	35.55	185.12	6,581.02
<b>TOTALS</b>	<b>39.48</b>		<b>12,494.80</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

**SSCC20 East**  
**Warren Ave Parced Out**

AREA (ac) = **15.58** Actual Per MS4 Map  
 AREA (ft2) = 678,808.55 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	80,482.27	11.4	1.78	19	0.34	1.44
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	627,761.74	88.6	13.81			13.81
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>708,244.01</b>		<b>15.58</b>		<b>0.34</b>	<b>15.25</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.34	1,504.78	511.63
Pervious Acres	15.25	185.12	2,823.08
<b>TOTALS</b>	<b>15.59</b>		<b>3,334.71</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

**SSCC20 West**  
**Warren Ave Parced Out**

AREA (ac) = **27.18** Actual Per MS4 Map  
 AREA (ft2) = 1,183,939.02 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	363,779.93	30.1	8.18	19	1.55	6.63
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	788,726.39	65.2	17.72			17.72
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	57,947.25	4.8	1.30			1.30
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>1,210,453.57</b>		<b>27.21</b>		<b>1.55</b>	<b>25.65</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	1.55	1,504.78	2,332.41
Pervious Acres	25.65	185.12	4,748.33
<b>TOTALS</b>	<b>27.20</b>		<b>7,080.74</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCC33

AREA (ac) = 132.62 Actual Per MS4 Map  
 AREA (ft2) = 536,701.51 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	3,170,999.25	54.7	72.58	19	13.79	58.79
Developed, Low Intensity	389,533.90	6.7	8.89	49	4.35	4.53
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	1,374,636.22	23.7	31.47			31.47
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	247,885.21	4.3	5.66			5.66
Shrub/Scrub	457,138.93	7.9	10.44			10.44
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	154,525.84	2.6	3.49			3.49
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>5,794,719.34</b>		<b>132.53</b>		<b>18.14</b>	<b>114.38</b>

\* Adjusted Area to Match MS4 Mapped Area +/-0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	18.14	1,504.78	27,296.71
Pervious Acres	114.38	185.12	21,174.03
<b>TOTALS</b>	<b>132.52</b>		<b>48,470.73</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

**SSCC34 East**  
**Warren Ave Parced Out**

AREA (ac) = **16.05** Actual Per MS4 Map  
 AREA (ft2) = 699,063.95 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	177,060.88	25.9	4.16	19	0.79	3.37
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	447,481.14	65.6	10.52			10.52
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	57,947.20	8.5	1.36			1.36
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>682,489.22</b>		<b>16.05</b>		<b>0.79</b>	<b>15.26</b>

\* Adjusted Area to Match MS4 Mapped Area +/-0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.79	1,504.78	1,188.78
Pervious Acres	15.26	185.12	2,824.93
<b>TOTALS</b>	<b>16.05</b>		<b>4,013.71</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

**SSCC34 West**  
**Warren Ave Parced Out**

AREA (ac) = **20.27** Actual Per MS4 Map  
 AREA (ft2) = 883,100.59 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	737,217.41	81.2	16.47	19	3.13	13.34
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	6,438.58	0.7	0.14			0.14
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	164,217.12	18.1	3.67			3.67
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>907,873.11</b>		<b>20.27</b>		<b>3.13</b>	<b>17.14</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	3.13	1,504.78	4,709.96
Pervious Acres	17.14	185.12	3,172.96
<b>TOTALS</b>	<b>20.27</b>		<b>7,882.92</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCC36

AREA (ac) = 30.27 Actual Per MS4 Map  
 AREA (ft2) = 1,318,561.20 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	605,226.56	46.2	13.98	19	2.66	11.33
Developed, Low Intensity	19,315.74	1.5	0.44	49	0.22	0.23
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	676,050.94	51.6	15.62			15.62
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	9,657.87	0.7	0.22			0.22
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>1,310,251.11</b>		<b>30.27</b>		<b>2.88</b>	<b>27.39</b>

\* Adjusted Area to Match MS4 Mapped Area +/-0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	2.88	1,504.78	4,333.77
Pervious Acres	27.39	185.12	5,070.44
<b>TOTALS</b>	<b>30.27</b>		<b>9,404.20</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

**SSCC40**

AREA (ac) = **18.88** Actual Per MS4 Map  
 AREA (ft2) = 822,412.80 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	476,455.40	56.5	10.66	19	2.03	8.64
Developed, Low Intensity	9,657.88	1.2	0.22	49	0.11	0.11
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	270,420.64	32.1	6.05			6.05
Evergreen Forest	28,973.64	3.4	0.65			0.65
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	48,289.40	5.7	1.08			1.08
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	9,657.88	1.2	0.22			0.22
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>843,454.84</b>		<b>18.88</b>		<b>2.13</b>	<b>16.75</b>

\* Adjusted Area to Match MS4 Mapped Area +/-0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	2.13	1,504.78	3,205.18
Pervious Acres	16.75	185.12	3,100.76
<b>TOTALS</b>	<b>18.88</b>		<b>6,305.94</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCC48

AREA (ac) = 66.20 Actual Per MS4 Map  
 AREA (ft2) = 2,883,458.56 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	1,535,596.32	54.1	35.81	19	6.80	29.01
Developed, Low Intensity	650,294.44	22.9	15.16	49	7.43	7.73
Developed, Medium Intensity	360,918.11	12.7	8.41	79	6.64	1.77
Developed, High Intensity	48,289.16	1.7	1.13	100	1.13	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	244,665.23	8.6	5.69			5.69
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>2,839,763.26</b>		<b>66.20</b>		<b>22.00</b>	<b>44.20</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	22.00	1,504.78	33,105.16
Pervious Acres	44.20	185.12	8,182.30
<b>TOTALS</b>	<b>66.20</b>		<b>41,287.46</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCC52

AREA (ac) = 17.35 Actual Per MS4 Map  
 AREA (ft2) = 755,774.71 Actual Per MS4 Map

**Table 1a: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	463,576.82	62.1	10.77	19	2.05	8.73
Developed, Low Intensity	215,691.99	28.9	5.01	49	2.46	2.56
Developed, Medium Intensity	19,315.70	2.6	0.45	79	0.36	0.09
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	48,289.25	6.5	1.13			1.13
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>746,873.76</b>		<b>17.37</b>		<b>4.86</b>	<b>12.51</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	4.86	1,504.78	7,313.23
Pervious Acres	12.51	185.12	2,315.85
<b>TOTALS</b>	<b>17.37</b>		<b>9,629.08</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

**SSCC53**

AREA (ac) = 9.21 Actual Per MS4 Map  
 AREA (ft2) = 401,113.55 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	296,173.93	71.9	6.62	19	1.26	5.36
Developed, Low Intensity	106,236.30	25.8	2.38	49	1.16	1.21
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	9,657.85	2.3	0.21			0.21
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>412,068.08</b>		<b>9.21</b>		<b>2.42</b>	<b>6.79</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	2.42	1,504.78	3,641.57
Pervious Acres	6.79	185.12	1,256.96
<b>TOTALS</b>	<b>9.21</b>		<b>4,898.53</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCC54

AREA (ac) = 6.25 Actual Per MS4 Map  
 AREA (ft2) = 272,223.86 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	189,937.67	71.1	4.44	19	0.84	3.60
Developed, Low Intensity	77,262.52	28.9	1.81	49	0.88	0.92
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	0.00	0.0	0.00			0.00
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	267,200.19		6.25		1.73	4.52

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	1.73	1,504.78	2,603.27
Pervious Acres	4.52	185.12	836.74
<b>TOTALS</b>	6.25		3,440.01

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCC57

AREA (ac) = 10.42 Actual Per MS4 Map  
 AREA (ft2) = 453,773.23 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	215,691.94	48.2	5.02	19	0.95	4.07
Developed, Low Intensity	222,130.51	50.0	5.21	49	2.55	2.66
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	0.00	0.0	0.00			0.00
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	9,657.85	2.2	0.23			0.23
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>447,480.30</b>		<b>10.46</b>		<b>3.51</b>	<b>6.95</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	3.51	1,504.78	5,281.78
Pervious Acres	6.95	185.12	1,286.58
<b>TOTALS</b>	<b>10.46</b>		<b>6,568.36</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

**SSCC58**

AREA (ac) = **15.88** Actual Per MS4 Map  
 AREA (ft2) = 691,850.41 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	473,234.65	65.3	10.37	19	1.97	8.40
Developed, Low Intensity	251,104.10	34.7	5.51	49	2.70	2.81
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	0.00	0.0	0.00			0.00
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>724,338.74</b>		<b>15.88</b>		<b>4.67</b>	<b>11.21</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	4.67	1,504.78	7,027.32
Pervious Acres	11.21	185.12	2,075.20
<b>TOTALS</b>	<b>15.88</b>		<b>9,102.52</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCC62

AREA (ac) = 4.34 Actual Per MS4 Map  
 AREA (ft2) = 188,893.58 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	160,964.10	89.3	3.87	19	0.74	3.14
Developed, Low Intensity	19,315.69	10.7	0.46	49	0.23	0.24
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	0.00	0.0	0.00			0.00
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	180,279.79		4.34		0.96	3.37

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.96	1,504.78	1,444.59
Pervious Acres	3.37	185.12	623.85
<b>TOTALS</b>	4.33		2,068.44

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCC63

AREA (ac) = 48.37 Actual Per MS4 Map  
 AREA (ft2) = 2,107,079.96 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	1,467,992.64	70.3	34.01	19	6.46	27.54
Developed, Low Intensity	363,778.88	17.4	8.42	49	4.12	4.29
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	244,665.44	11.7	5.66			5.66
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	12,877.13	0.6	0.29			0.29
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>2,089,314.09</b>		<b>48.37</b>		<b>10.59</b>	<b>37.79</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	10.59	1,504.78	15,935.62
Pervious Acres	37.79	185.12	6,995.68
<b>TOTALS</b>	<b>48.38</b>		<b>22,931.31</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCC64

AREA (ac) = 4.64 Actual Per MS4 Map  
 AREA (ft2) = 202,231.66 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	45,069.97	19.7	0.91	19	0.17	0.74
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	183,499.17	80.3	3.73			3.73
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	228,569.14		4.64		0.17	4.47

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.17	1,504.78	255.81
Pervious Acres	4.47	185.12	827.49
<b>TOTALS</b>	4.64		1,083.30

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCC65

AREA (ac) = 30.65 Actual Per MS4 Map  
 AREA (ft2) = 1,334,926.69 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	762,971.00	56.3	17.25	19	3.28	13.98
Developed, Low Intensity	9,657.86	0.7	0.21	49	0.11	0.11
Developed, Medium Intensity	6,438.57	0.5	0.15	79	0.12	0.03
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	321,928.69	23.8	7.29			7.29
Evergreen Forest	57,947.16	4.3	1.32			1.32
Mixed Forest	190,051.98	13.8	4.23			4.23
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	9,657.73	0.7	0.21			0.21
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>1,358,652.99</b>		<b>30.68</b>		<b>3.50</b>	<b>27.17</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	3.50	1,504.78	5,266.73
Pervious Acres	27.17	185.12	5,029.71
<b>TOTALS</b>	<b>30.67</b>		<b>10,296.44</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSC65A

AREA (ac) = 4.16 Actual Per MS4 Map  
 AREA (ft2) = 181,240.09 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	199,595.86	90.0	3.74	19	0.71	3.03
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	0.00	0.0	0.00			0.00
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	22,535.02	10.1	0.42			0.42
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>222,130.88</b>		<b>4.16</b>		<b>0.71</b>	<b>3.45</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.71	1,504.78	1,068.39
Pervious Acres	3.45	185.12	638.66
<b>TOTALS</b>	<b>4.16</b>		<b>1,707.06</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCC66

AREA (ac) = 4.72 Actual Per MS4 Map  
 AREA (ft2) = 205,725.17 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	115,894.27	52.0	2.46	19	0.47	1.99
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	38,631.42	16.9	0.80			0.80
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	35,412.15	15.1	0.71			0.71
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	38,631.42	15.9	0.75			0.75
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>228,569.27</b>		<b>4.72</b>		<b>0.47</b>	<b>4.25</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.47	1,504.78	707.25
Pervious Acres	4.25	185.12	786.76
<b>TOTALS</b>	<b>4.72</b>		<b>1,494.01</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCC68

AREA (ac) = 14.80 Actual Per MS4 Map  
 AREA (ft2) = 644,627.02 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	325,147.86	50.3	7.44	19	1.41	6.03
Developed, Low Intensity	96,578.57	14.9	2.20	49	1.08	1.12
Developed, Medium Intensity	77,262.86	11.9	1.76	79	1.39	0.37
Developed, High Intensity	9,657.86	1.5	0.22	100	0.22	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	16,096.43	2.5	0.37			0.37
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	3,219.29	0.5	0.07			0.07
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	119,113.58	18.4	2.72			2.72
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>647,076.44</b>		<b>14.80</b>		<b>4.11</b>	<b>10.69</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	4.11	1,504.78	6,184.65
Pervious Acres	10.69	185.12	1,978.93
<b>TOTALS</b>	<b>14.80</b>		<b>8,163.58</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCC69

AREA (ac) = 3.56 Actual Per MS4 Map  
 AREA (ft2) = 154,886.29 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	86,920.49	52.0	1.85	19	0.35	1.50
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	51,375.26	30.7	1.09			1.09
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	29,306.92	17.3	0.62			0.62
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	167,602.67		3.56		0.35	3.20

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.35	1,504.78	526.67
Pervious Acres	3.20	185.12	592.38
<b>TOTALS</b>	3.55		1,119.06

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCC71

AREA (ac) = 22.38 Actual Per MS4 Map  
 AREA (ft2) = 974,907.65 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	463,577.03	48.8	10.92	19	2.08	8.85
Developed, Low Intensity	154,525.68	16.3	3.65	49	1.79	1.86
Developed, Medium Intensity	77,262.84	8.1	1.81	79	1.43	0.38
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	128,771.39	13.6	3.04			3.04
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	125,552.11	13.2	2.95			2.95
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>949,689.05</b>		<b>22.38</b>		<b>5.29</b>	<b>17.09</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	5.29	1,504.78	7,960.29
Pervious Acres	17.09	185.12	3,163.70
<b>TOTALS</b>	<b>22.38</b>		<b>11,123.99</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

**SSCC75**

AREA (ac) = 11.90 Actual Per MS4 Map  
 AREA (ft2) = 518,303.02 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	51,508.67	9.9	1.18	19	0.22	0.95
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	344,464.26	66.1	7.86			7.86
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	77,263.01	14.8	1.76			1.76
Shrub/Scrub	48,289.38	9.3	1.11			1.11
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>521,525.32</b>		<b>11.91</b>		<b>0.22</b>	<b>11.69</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.22	1,504.78	331.05
Pervious Acres	11.69	185.12	2,164.05
<b>TOTALS</b>	<b>11.91</b>		<b>2,495.10</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

**SSCC76**

AREA (ac) = **10.69** Actual Per MS4 Map  
 AREA (ft2) = 465,682.54 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	64,385.80	13.2	1.41	19	0.27	1.14
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	389,534.11	79.6	8.51			8.51
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	35,412.19	7.2	0.77			0.77
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>489,332.10</b>		<b>10.69</b>		<b>0.27</b>	<b>10.42</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.27	1,504.78	406.29
Pervious Acres	10.42	185.12	1,928.95
<b>TOTALS</b>	<b>10.69</b>		<b>2,335.24</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

**SSCCA.1 East**  
Warren Avenue Parced Out

AREA (ac) = **26.53** Actual Per MS4 Map  
AREA (ft2) = 1,155,751.34 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	321,929.12	27.1	7.19	19	1.37	5.82
Developed, Low Intensity	154,525.98	13.0	3.45	49	1.69	1.76
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	688,928.32	58.0	15.39			15.39
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	22,501.71	1.9	0.50			0.50
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>1,187,885.12</b>		<b>26.53</b>		<b>3.06</b>	<b>23.47</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	3.06	1,504.78	4,604.63
Pervious Acres	23.47	185.12	4,344.77
<b>TOTALS</b>	<b>26.53</b>		<b>8,949.39</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

**SSCCA.1 West**  
Warren Avenue Parced Out

AREA (ac) = 19.01 Actual Per MS4 Map  
AREA (ft2) = 827,966.70 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	312,271.36	38.2	7.26	19	1.38	5.88
Developed, Low Intensity	19,315.75	2.4	0.45	49	0.22	0.23
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	486,113.16	59.5	11.30			11.30
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>817,700.27</b>		<b>19.01</b>		<b>1.60</b>	<b>17.41</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	1.60	1,504.78	2,407.65
Pervious Acres	17.41	185.12	3,222.94
<b>TOTALS</b>	<b>19.01</b>		<b>5,630.59</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCA.6

AREA (ac) = 14.59 Actual Per MS4 Map  
 AREA (ft2) = 635,688.50 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	351,102.46	57.7	8.42	19	1.60	6.82
Developed, Low Intensity	86,920.79	14.3	2.09	49	1.02	1.06
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	144,867.99	23.8	3.47			3.47
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	16,096.44	2.7	0.39			0.39
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	9,657.87	1.6	0.23			0.23
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>608,645.56</b>		<b>14.61</b>		<b>2.62</b>	<b>11.99</b>

\* Adjusted Area to Match MS4 Mapped Area = +/-0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	2.62	1,504.78	3,942.52
Pervious Acres	11.99	185.12	2,219.59
<b>TOTALS</b>	<b>14.61</b>		<b>6,162.11</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCCGTP

AREA (ac) = 4.91 Per MS4 Map  
 AREA (ft2) = 214,023.35 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	173,841.21	81.8	4.02	19	0.76	3.26
Developed, Low Intensity	28,973.53	13.6	0.67	49	0.33	0.34
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	9,657.84	4.6	0.23			0.23
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>212,472.58</b>		<b>4.91</b>		<b>1.09</b>	<b>3.82</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	1.09	1,504.78	1,640.21
Pervious Acres	3.82	185.12	707.16
<b>TOTALS</b>	<b>4.91</b>		<b>2,347.37</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCCMRP

AREA (ac) = 19.2 Actual Per MS4 Map  
 AREA (ft2) = 834,727.21 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.0			0.00
Perennial Ice/Snow	0.00	0.0	0.0			0.00
Developed, Open Space	264,196.77	31.8	6.1	19	1.16	4.94
Developed, Low Intensity	202,815.00	24.4	4.7	49	2.29	2.38
Developed, Medium Intensity	57,947.19	7.0	1.3	79	1.06	0.28
Developed, High Intensity	9,657.81	1.2	0.2	100	0.23	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.0			0.00
Deciduous Forest	218,911.46	26.4	5.1			5.06
Evergreen Forest	0.00	0.0	0.0			0.00
Mixed Forest	0.00	0.0	0.0			0.00
Shrub/Scrub	77,262.92	9.3	1.8			1.78
Grassland/Herbaceous	0.00	0.0	0.0			0.00
Pasture/Hay	0.00	0.0	0.0			0.00
Cultivated Crops	0.00	0.0	0.0			0.00
Woody Wetlands	0.00	0.0	0.0			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.0			0.00
<b>TOTALS</b>	<b>830,791.15</b>		<b>19.18</b>		<b>4.74</b>	<b>14.44</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	4.74	1,504.78	7,132.66
Pervious Acres	14.44	185.12	2,673.13
<b>TOTALS</b>	<b>19.18</b>		<b>9,805.79</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCCSWALE

AREA (ac) = 42.81 Per MS4 Map  
 AREA (ft2) = 1,864,794.89 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	1,004,416.64	53.2	22.75	19	4.32	18.43
Developed, Low Intensity	389,533.38	20.6	8.82	49	4.32	4.50
Developed, Medium Intensity	48,289.26	2.6	1.09	79	0.86	0.23
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	428,164.79	22.7	9.70			9.70
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	19,315.70	1.0	0.44			0.44
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>1,889,719.77</b>		<b>42.81</b>		<b>9.51</b>	<b>33.30</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	9.51	1,504.78	14,310.46
Pervious Acres	33.30	185.12	6,164.50
<b>TOTALS</b>	<b>42.81</b>		<b>20,474.95</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCCTR-A

AREA (ac) = 33.34 Per MS4 Map  
 AREA (ft2) = 1,452,264.26 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	714,680.87	49.0	16.34	19	3.10	13.23
Developed, Low Intensity	376,656.13	25.8	8.61	49	4.22	4.39
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	338,024.73	23.2	7.73			7.73
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	29,306.88	2.0	0.66			0.66
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>1,458,668.62</b>		<b>33.34</b>		<b>7.32</b>	<b>26.02</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	7.32	1,504.78	11,014.99
Pervious Acres	26.02	185.12	4,816.82
<b>TOTALS</b>	<b>33.34</b>		<b>15,831.81</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCCTR-B

AREA (ac) = 16.07 Per MS4 Map  
 AREA (ft2) = 700,213.93 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	19,315.68	2.8	0.44	19	0.08	0.36
Developed, Low Intensity	106,236.22	15.1	2.43	49	1.19	1.24
Developed, Medium Intensity	392,752.08	56.0	9.00	79	7.11	1.89
Developed, High Intensity	67,604.87	9.6	1.55	100	1.55	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	115,894.05	16.5	2.66			2.66
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>701,802.90</b>		<b>16.08</b>		<b>9.93</b>	<b>6.14</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	9.93	1,504.78	14,942.47
Pervious Acres	6.14	185.12	1,136.64
<b>TOTALS</b>	<b>16.07</b>		<b>16,079.10</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCCTR-C

AREA (ac) = 2.28 Per MS4 Map  
 AREA (ft2) = 99,521.53 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	48,289.20	50.0	1.14	19	0.22	0.93
Developed, Low Intensity	48,289.20	50.0	1.14	49	0.56	0.58
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	0.00	0.0	0.00			0.00
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>96,578.40</b>		<b>2.28</b>		<b>0.78</b>	<b>1.51</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.78	1,504.78	1,173.73
Pervious Acres	1.51	185.12	279.53
<b>TOTALS</b>	<b>2.29</b>		<b>1,453.26</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCCTR-D

AREA (ac) = 2.04 Per MS4 Map  
 AREA (ft2) = 88,762.21 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	57,947.06	66.7	1.36	19	0.26	1.10
Developed, Low Intensity	19,315.69	22.2	0.45	49	0.22	0.23
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	9,657.84	11.1	0.23			0.23
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>86,920.59</b>		<b>2.04</b>		<b>0.48</b>	<b>1.56</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.48	1,504.78	722.29
Pervious Acres	1.56	185.12	288.79
<b>TOTALS</b>	<b>2.04</b>		<b>1,011.08</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCCTR-E

AREA (ac) = 0.75 Per MS4 Map  
 AREA (ft2) = 32,569.81 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	48,289.23	100.0	0.75	19	0.14	0.61
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	0.00	0.0	0.00			0.00
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	48,289.23		0.75		0.14	0.61

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.14	1,504.78	210.67
Pervious Acres	0.61	185.12	112.92
<b>TOTALS</b>	0.75		323.59

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCCTR-F

AREA (ac) = 2.37 Per MS4 Map  
 AREA (ft2) = 103,398.37 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	63,385.67	52.6	1.25	19	0.24	1.01
Developed, Low Intensity	28,973.55	23.7	0.56	49	0.28	0.29
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	28,973.55	23.7	0.56			0.56
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>121,332.77</b>		<b>2.37</b>		<b>0.51</b>	<b>1.86</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.51	1,504.78	767.44
Pervious Acres	1.86	185.12	344.32
<b>TOTALS</b>	<b>2.37</b>		<b>1,111.76</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCCTR-G

AREA (ac) = 25.04 Per MS4 Map  
 AREA (ft2) = 1,090,629.14 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	775,847.45	68.9	17.24	19	3.28	13.97
Developed, Low Intensity	235,007.73	20.9	5.22	49	2.56	2.66
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	67,604.97	6.0	1.50			1.50
Evergreen Forest	16,096.42	1.4	0.36			0.36
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	32,192.84	2.9	0.71			0.71
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>1,126,749.41</b>		<b>25.04</b>		<b>5.83</b>	<b>19.20</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	5.83	1,504.78	8,772.87
Pervious Acres	19.20	185.12	3,554.30
<b>TOTALS</b>	<b>25.03</b>		<b>12,327.17</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCCTR-H

AREA (ac) = 11.27 Per MS4 Map  
 AREA (ft2) = 490,803.59 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	154,525.70	28.9	3.26	19	0.62	2.64
Developed, Low Intensity	28,973.57	5.4	0.61	49	0.30	0.31
Developed, Medium Intensity	103,017.13	19.3	2.17	79	1.72	0.46
Developed, High Intensity	25,754.28	4.8	0.54	100	0.54	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	29,306.90	5.4	0.61			0.61
Evergreen Forest	9,657.86	1.8	0.20			0.20
Mixed Forest	144,867.84	27.1	3.06			3.06
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	19,315.71	3.6	0.41			0.41
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	19,315.71	3.6	0.41			0.41
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>534,734.71</b>		<b>11.27</b>		<b>3.17</b>	<b>8.09</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	3.17	1,504.78	4,770.15
Pervious Acres	8.09	185.12	1,497.62
<b>TOTALS</b>	<b>11.26</b>		<b>6,267.77</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCCTR-H1

AREA (ac) = 6.19 Per MS4 Map  
 AREA (ft2) = 269,710.45 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	128,771.45	45.4	2.81	19	0.53	2.28
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	106,236.44	37.5	2.32			2.32
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	48,289.29	17.0	1.05			1.05
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>283,297.18</b>		<b>6.19</b>		<b>0.53</b>	<b>5.66</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.53	1,504.78	797.53
Pervious Acres	5.66	185.12	1,047.78
<b>TOTALS</b>	<b>6.19</b>		<b>1,845.31</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCCTR-I

AREA (ac) = 15.19 Per MS4 Map  
 AREA (ft2) = 661,737.38 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	376,656.56	57.1	8.67	19	1.65	7.02
Developed, Low Intensity	74,043.59	11.2	1.71	49	0.84	0.87
Developed, Medium Intensity	28,973.58	4.4	0.67	79	0.53	0.14
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	170,622.20	25.9	3.93			3.93
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	9,657.86	1.5	0.22			0.22
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>659,953.80</b>		<b>15.19</b>		<b>3.01</b>	<b>12.18</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	3.01	1,504.78	4,529.39
Pervious Acres	12.18	185.12	2,254.76
<b>TOTALS</b>	<b>15.19</b>		<b>6,784.15</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCCTR-J

AREA (ac) = 9.45 Per MS4 Map  
 AREA (ft2) = 411,459.05 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	99,797.96	23.5	2.22	19	0.42	1.80
Developed, Low Intensity	9,657.87	2.3	0.21	49	0.11	0.11
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	180,280.18	42.4	4.01			4.01
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	48,289.33	11.4	1.07			1.07
Shrub/Scrub	28,973.60	6.8	0.64			0.64
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	57,947.20	13.6	1.29			1.29
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>424,946.13</b>		<b>9.45</b>		<b>0.53</b>	<b>8.92</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.53	1,504.78	797.53
Pervious Acres	8.92	185.12	1,651.27
<b>TOTALS</b>	<b>9.45</b>		<b>2,448.80</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCCTR-K

AREA (ac) = 3.10 Per MS4 Map  
 AREA (ft2) = 135,144.90 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	106,236.51	84.6	2.63	19	0.50	2.13
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	9,657.86	7.7	0.24			0.24
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	9,657.86	7.7	0.24			0.24
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	125,552.23		3.10		0.50	2.60

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.50	1,504.78	752.39
Pervious Acres	2.60	185.12	481.31
<b>TOTALS</b>	3.10		1,233.70

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCCTR-L

AREA (ac) = 14.22 Per MS4 Map

AREA (ft2) = 619,327.37 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	38,631.45	6.1	0.86	19	0.16	0.70
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	511,866.70	80.3	11.42			11.42
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	86,920.76	13.6	1.94			1.94
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>637,418.91</b>		<b>14.22</b>		<b>0.16</b>	<b>14.05</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.16	1,504.78	240.76
Pervious Acres	14.05	185.12	2,600.94
<b>TOTALS</b>	<b>14.21</b>		<b>2,841.70</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCCTR-M

AREA (ac) = 7.54 Per MS4 Map  
 AREA (ft2) = 328,451.11 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	0.00	0.0	0.00	19	0.00	0.00
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	276,192.00	100.0	7.54			7.54
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>276,192.00</b>		<b>7.54</b>		<b>0.00</b>	<b>7.54</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.00	1,504.78	0.00
Pervious Acres	7.54	185.12	1,395.80
<b>TOTALS</b>	<b>7.54</b>		<b>1,395.80</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCCTR-N

AREA (ac) = 10.94 Per MS4 Map  
 AREA (ft2) = 476,550.76 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	305,832.94	65.1	7.12	19	1.35	5.77
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	38,631.53	8.2	0.90			0.90
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	86,920.94	18.5	2.02			2.02
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	38,631.53	8.2	0.90			0.90
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>470,016.94</b>		<b>10.94</b>		<b>1.35</b>	<b>9.59</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	1.35	1,504.78	2,031.45
Pervious Acres	9.59	185.12	1,775.30
<b>TOTALS</b>	<b>10.94</b>		<b>3,806.75</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCCTR-O

AREA (ac) = 33.54 Per MS4 Map  
 AREA (ft2) = 1,460,871.72 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	534,402.83	35.7	11.97	19	2.27	9.70
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	479,674.83	32.0	10.75			10.75
Evergreen Forest	164,184.00	11.0	3.68			3.68
Mixed Forest	67,605.18	4.5	1.52			1.52
Shrub/Scrub	77,263.06	5.2	1.73			1.73
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	96,578.83	6.5	2.16			2.16
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	77,263.06	5.2	1.73			1.73
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>1,496,971.79</b>		<b>33.54</b>		<b>2.27</b>	<b>31.26</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	2.27	1,504.78	3,415.85
Pervious Acres	31.26	185.12	5,786.85
<b>TOTALS</b>	<b>33.53</b>		<b>9,202.70</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCCTR-P

AREA (ac) = 2.83 Per MS4 Map  
 AREA (ft2) = 123,065.71 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	534,402.83	35.7	1.01	19	0.19	0.82
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	479,674.83	32.0	0.91			0.91
Evergreen Forest	164,184.06	11.0	0.31			0.31
Mixed Forest	67,605.12	4.5	0.13			0.13
Shrub/Scrub	77,263.06	5.2	0.15			0.15
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	96,578.83	6.5	0.18			0.18
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	77,263.06	5.2	0.15			0.15
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>1,496,971.79</b>		<b>2.83</b>		<b>0.19</b>	<b>2.63</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.19	1,504.78	285.91
Pervious Acres	2.63	185.12	486.87
<b>TOTALS</b>	<b>2.82</b>		<b>772.77</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCCTR-Q

AREA (ac) = 4.72 Per MS4 Map  
 AREA (ft2) = 205,659.83 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	19,315.75	9.4	0.44	19	0.08	0.36
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	164,183.92	79.7	3.76			3.76
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	22,535.04	10.9	0.51			0.51
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	206,034.71		4.72		0.08	4.64

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.08	1,504.78	120.38
Pervious Acres	4.64	185.12	858.96
<b>TOTALS</b>	4.72		979.34

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCCTR-R

AREA (ac) = 12.48 Per MS4 Map  
 AREA (ft2) = 543,759.48 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	99,798.09	18.8	2.35	19	0.45	1.90
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	354,122.27	66.7	8.32			8.32
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	77,263.04	14.6	1.82			1.82
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>531,183.40</b>		<b>12.48</b>		<b>0.45</b>	<b>12.04</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.45	1,504.78	677.15
Pervious Acres	12.04	185.12	2,228.84
<b>TOTALS</b>	<b>12.49</b>		<b>2,906.00</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSCCUNK2

AREA (ac) = 0.92 Actual Per MS4 Map  
 AREA (ft2) = 39,927.10 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	28,973.54	60.0	0.55	19	0.10	0.45
Developed, Low Intensity	9,657.85	20.0	0.18	49	0.09	0.09
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	9,657.85	20.0	0.18			0.18
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>48,289.24</b>		<b>0.92</b>		<b>0.19</b>	<b>0.72</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.19	1,504.78	285.91
Pervious Acres	0.72	185.12	133.29
<b>TOTALS</b>	<b>0.91</b>		<b>419.19</b>

**PRP Report and Strategy Plan for Willistown Township  
MS4 Individual Permit Application 2018**

Little Valley Creek Loading Rates

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSLVC1a

AREA (ac) = 8.59 Actual Per MS4 Map  
 AREA (ft2) = 374,141.20 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	103,017.05	28.3	2.43	19	0.46	1.97
Developed, Low Intensity	9,657.81	2.7	0.23	49	0.11	0.12
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	251,211.66	69.0	5.93			5.93
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>363,886.51</b>		<b>8.59</b>		<b>0.58</b>	<b>8.02</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.58	1,504.78	872.77
Pervious Acres	8.02	185.12	1,484.66
<b>TOTALS</b>	<b>8.60</b>		<b>2,357.43</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSLVC1b

AREA (ac) = 13.46 Actual Per MS4 Map  
 AREA (ft2) = 586,465.70 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	460,357.49	81.3	10.95	19	2.08	8.87
Developed, Low Intensity	106,236.31	18.7	2.52	49	1.23	1.28
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	0.00	0.0	0.00			0.00
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>566,593.80</b>		<b>13.46</b>		<b>3.31</b>	<b>10.15</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	3.31	1,504.78	4,980.82
Pervious Acres	10.15	185.12	1,878.97
<b>TOTALS</b>	<b>13.46</b>		<b>6,859.79</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSLVC5

AREA (ac) = 25.48 Actual Per MS4 Map  
 AREA (ft2) = 1,110,056.90 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	550,496.35	49.1	12.52	19	2.38	10.14
Developed, Low Intensity	154,525.29	13.8	3.52	49	1.72	1.79
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	415,286.73	37.1	9.45			9.45
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>1,120,308.37</b>		<b>25.48</b>		<b>4.10</b>	<b>21.38</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	4.10	1,504.78	6,169.60
Pervious Acres	21.38	185.12	3,957.87
<b>TOTALS</b>	<b>25.48</b>		<b>10,127.46</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSLVC6

AREA (ac) = 16.91 Actual Per MS4 Map  
 AREA (ft2) = 736,407.94 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	238,226.46	31.2	5.27	19	1.00	4.27
Developed, Low Intensity	115,893.95	15.2	2.57	49	1.26	1.31
Developed, Medium Intensity	9,657.83	1.3	0.22	79	0.17	0.05
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	399,190.29	52.3	8.84			8.84
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>762,968.53</b>		<b>16.91</b>		<b>2.43</b>	<b>14.47</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	2.43	1,504.78	3,656.62
Pervious Acres	14.47	185.12	2,678.69
<b>TOTALS</b>	<b>16.90</b>		<b>6,335.30</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSLVC8

AREA (ac) = 5.36 Actual Per MS4 Map  
 AREA (ft2) = 233,481.60 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	157,744.77	70.0	3.75	19	0.71	3.04
Developed, Low Intensity	67,604.90	30.0	1.61	49	0.79	0.82
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	0.00	0.0	0.00			0.00
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>225,349.67</b>		<b>5.36</b>		<b>1.50</b>	<b>3.86</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	1.50	1,504.78	2,257.17
Pervious Acres	3.86	185.12	714.56
<b>TOTALS</b>	<b>5.36</b>		<b>2,971.73</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

**SSLVC10**

AREA (ac) = **19.36** Actual Per MS4 Map  
 AREA (m2) = 843,395.65 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	547,277.83	62.7	12.15	19	2.31	9.84
Developed, Low Intensity	128,771.25	14.8	2.86	49	1.40	1.46
Developed, Medium Intensity	57,947.07	6.6	1.29	79	1.02	0.27
Developed, High Intensity	19,315.69	2.2	0.43	100	0.43	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	38,631.38	4.4	0.86			0.86
Evergreen Forest	80,482.03	9.2	1.78			1.78
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>872,425.25</b>		<b>19.36</b>		<b>5.15</b>	<b>14.21</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	5.15	1,504.78	7,749.62
Pervious Acres	14.21	185.12	2,630.56
<b>TOTALS</b>	<b>19.36</b>		<b>10,380.17</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSLVC11

AREA (ac) = 4.32 Actual Per MS4 Map  
 AREA (m2) = 188,275.03 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	141,648.34	71.0	3.07	19	0.58	2.48
Developed, Low Intensity	19,315.68	9.7	0.42	49	0.21	0.21
Developed, Medium Intensity	19,315.68	9.7	0.42	79	0.33	0.09
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	19,315.68	9.7	0.42			0.42
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>199,595.38</b>		<b>4.32</b>		<b>1.12</b>	<b>3.20</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	1.12	1,504.78	1,685.35
Pervious Acres	3.20	185.12	592.38
<b>TOTALS</b>	<b>4.32</b>		<b>2,277.74</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSLVC12

AREA (ac) = 4.55 Actual Per MS4 Map  
 AREA (ft2) = 198,206.71 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	67,604.89	34.7	1.58	19	0.30	1.28
Developed, Low Intensity	28,973.54	14.9	0.68	49	0.33	0.34
Developed, Medium Intensity	54,727.70	27.9	1.27	79	1.00	0.27
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	45,069.89	22.6	1.03			1.03
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	196,376.03		4.55		1.63	2.92

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	1.63	1,504.78	2,452.79
Pervious Acres	2.92	185.12	540.55
<b>TOTALS</b>	4.55		2,993.34

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

**SSLVC13**

AREA (ac) = **25.03** Actual Per MS4 Map  
 AREA (ft2) = 1,090,306.80 Actual Per MS4 Map

**Table 1b: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	77,262.60	6.7	1.68	19	0.32	1.36
Developed, Low Intensity	80,481.90	6.9	1.73	49	0.85	0.88
Developed, Medium Intensity	441,040.90	38.0	9.52	79	7.52	2.00
Developed, High Intensity	160,963.84	13.9	3.48	100	3.48	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	399,190.27	34.5	8.63			8.63
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>1,158,939.51</b>		<b>25.03</b>		<b>12.16</b>	<b>12.87</b>

\* Adjusted Area to Match MS4 Mapped Area

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	12.16	1,504.78	18,298.12
Pervious Acres	12.87	185.12	2,382.49
<b>TOTALS</b>	<b>25.03</b>		<b>20,680.62</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSLVCTR-A

AREA (ac) = 35.69 Per MS4 Map  
 AREA (ft2) = 1,554,503.94 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	762,969.38	48.6	17.33	19	3.29	14.04
Developed, Low Intensity	196,376.09	12.5	4.45	49	2.18	2.27
Developed, Medium Intensity	328,366.57	20.9	7.46	79	5.89	1.57
Developed, High Intensity	12,877.12	0.8	0.29	100	0.29	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	270,419.53	17.2	6.14			6.14
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>1,571,008.68</b>		<b>35.69</b>		<b>11.66</b>	<b>24.02</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	11.66	1,504.78	17,545.73
Pervious Acres	24.02	185.12	4,446.58
<b>TOTALS</b>	<b>35.68</b>		<b>21,992.32</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSLVCTR-B

AREA (ac) = 13.25 Per MS4 Map

AREA (ft2) = 577,135.15 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	77,262.67	13.4	1.78	19	0.34	1.44
Developed, Low Intensity	67,604.83	11.7	1.56	49	0.76	0.79
Developed, Medium Intensity	61,166.28	10.6	1.41	79	1.11	0.30
Developed, High Intensity	51,508.44	8.9	1.18	100	1.18	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	318,708.50	55.3	7.33			7.33
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>576,250.73</b>		<b>13.25</b>		<b>3.39</b>	<b>9.86</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	3.39	1,504.78	5,101.20
Pervious Acres	9.86	185.12	1,825.28
<b>TOTALS</b>	<b>13.25</b>		<b>6,926.49</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSLVCTR-C

AREA (ac) = 37.75 Per MS4 Map  
 AREA (ft2) = 1,644,385.64 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	135,209.67	8.1	3.05	19	0.58	2.47
Developed, Low Intensity	196,375.95	11.7	4.43	49	2.17	2.26
Developed, Medium Intensity	753,311.01	45.0	16.99	79	13.42	3.57
Developed, High Intensity	48,289.17	2.9	1.09	100	1.09	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	502,207.34	30.0	11.32			11.32
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	38,631.33	2.3	0.87			0.87
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>1,674,024.47</b>		<b>37.75</b>		<b>17.26</b>	<b>20.49</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	17.26	1,504.78	25,972.50
Pervious Acres	20.49	185.12	3,793.11
<b>TOTALS</b>	<b>37.75</b>		<b>29,765.61</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSLVCTR-D

AREA (ac) = 16.87 Per MS4 Map

AREA (ft2) = 734,913.83 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	189,937.41	26.3	4.44	19	0.84	3.60
Developed, Low Intensity	0.00	0.0	0.00	49	0.00	0.00
Developed, Medium Intensity	9,657.83	1.3	0.23	79	0.18	0.05
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	424,944.71	58.9	9.94			9.94
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	96,578.34	13.4	2.26			2.26
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>721,118.30</b>		<b>16.87</b>		<b>1.02</b>	<b>15.85</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	1.02	1,504.78	1,534.88
Pervious Acres	15.85	185.12	2,934.15
<b>TOTALS</b>	<b>16.87</b>		<b>4,469.03</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSLVCTR-E

AREA (ac) = 14.03 Per MS4 Map  
 AREA (ft2) = 611,037.90 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	31,526.12	5.5	0.77	19	0.15	0.62
Developed, Low Intensity	38,964.68	6.6	0.93	49	0.45	0.47
Developed, Medium Intensity	363,778.50	62.2	8.72	79	6.89	1.83
Developed, High Intensity	131,990.43	22.5	3.15	100	3.15	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	19,315.67	3.3	0.46			0.46
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>585,575.41</b>		<b>14.03</b>		<b>10.64</b>	<b>3.39</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	10.64	1,504.78	16,010.86
Pervious Acres	3.39	185.12	627.56
<b>TOTALS</b>	<b>14.03</b>		<b>16,638.42</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSLVCTR-F

AREA (ac) = 2.37 Per MS4 Map  
 AREA (ft2) = 103,398.37 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	64,385.67	54.1	1.28	19	0.24	1.04
Developed, Low Intensity	28,973.55	24.4	0.58	49	0.28	0.29
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	25,754.27	21.6	0.51			0.51
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>119,113.48</b>		<b>2.37</b>		<b>0.53</b>	<b>1.85</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.53	1,504.78	797.53
Pervious Acres	1.85	185.12	342.47
<b>TOTALS</b>	<b>2.38</b>		<b>1,140.01</b>

**Pollution Reduction Plan: Simplified Method**

**LOADING RATE CALCULATIONS FOR SEWERSHED NO.**

SSLVCTR-G

AREA (ac) = 0.98 Per MS4 Map  
 AREA (ft2) = 42,623.46 Per MS4 Map

**Table 1: WikiWatershed Analysis (<https://wikiwatershed.org>)**

LAND USE	AREA (ft2) Per WikiWatershed	Coverage (%)	AREA (ac)*	% IMPERVIOUS	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)
Open Water	0.00	0.0	0.00			0.00
Perennial Ice/Snow	0.00	0.0	0.00			0.00
Developed, Open Space	19,315.67	40.0	0.39	19	0.07	0.32
Developed, Low Intensity	28,973.50	60.0	0.59	49	0.29	0.30
Developed, Medium Intensity	0.00	0.0	0.00	79	0.00	0.00
Developed, High Intensity	0.00	0.0	0.00	100	0.00	0.00
Barren Land (Rock/Sand/Clay)	0.00	0.0	0.00			0.00
Deciduous Forest	0.00	0.0	0.00			0.00
Evergreen Forest	0.00	0.0	0.00			0.00
Mixed Forest	0.00	0.0	0.00			0.00
Shrub/Scrub	0.00	0.0	0.00			0.00
Grassland/Herbaceous	0.00	0.0	0.00			0.00
Pasture/Hay	0.00	0.0	0.00			0.00
Cultivated Crops	0.00	0.0	0.00			0.00
Woody Wetlands	0.00	0.0	0.00			0.00
Emergent Herbaceous Wetlands	0.00	0.0	0.00			0.00
<b>TOTALS</b>	<b>48,289.17</b>		<b>0.98</b>		<b>0.36</b>	<b>0.62</b>

\* Adjusted Area to Match MS4 Mapped Area +/- 0.1%

**Table 2: DEVELOPED LAND LOADING RATE FOR CHESTER COUNTY (Per PADEP Developed Land Loading Rates for PA Counties)**

Category	Area (ac)	TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS - Sediment (lbs/ac/yr)
Impervious Developed	1,838.40	21.15	1.46	1,504.78
Pervious Developed	10,439.80	14.09	0.36	185.12

**Table 3a: TOTAL SUSPENDED SOLIDS -TSS / SEDIMENT LOADING**

Land Use	Table 1 Total (ac)	Table 2 Loading Rate (lbs/ac./yr.)	Sediment Loading Rate (lb/yr)
Impervious Acres	0.36	1,504.78	541.72
Pervious Acres	0.62	185.12	114.77
<b>TOTALS</b>	<b>0.98</b>		<b>656.50</b>