

# Water Quality

Project: West Field - POA 1

PRINT

Instructions

General

Volume

Rate

Quality

## Pre-Construction Pollutant Loads:

Land Cover (from Volume Worksheet)	Land Cover for Water Quality	Area (acres)	Soil Group	Runoff Volume (cf)	Pollutant Conc. (mg/L)			Pollutant Loads (lbs)		
					TSS	TP	TN	TSS	TP	TN
Pervious as Meadow	Grassland/Herbaceous	3.30	D	9,829	48.8	0.22	2.30	29.95	0.14	1.41
Forested (Good Condition)	Deciduous Forest/Evergreen Forest/Mixed Forest	0.07	C	122	45.0	0.13	1.05	0.34	0.00	0.01
Forested (Good Condition)	Deciduous Forest/Evergreen Forest/Mixed Forest	0.04	D	112	45.0	0.13	1.05	0.31	0.00	0.01
<b>TOTAL (ACRES):</b>		<b>3.41</b>			<b>TOTALS:</b>			<b>30.61</b>	<b>0.14</b>	<b>1.43</b>

## Post-Construction Pollutant Loads (without BMPs):

Land Cover (from Volume Worksheet)	Land Cover for Water Quality	Area (acres)	Soil Group	Runoff Volume (cf)	Pollutant Conc. (mg/L)			Pollutant Loads (lbs)		
					TSS	TP	TN	TSS	TP	TN
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	0.07	C	131	48.8	0.22	2.30	0.40	0.00	0.02
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	0.61	D	1,817	48.8	0.22	2.30	5.54	0.02	0.26

TOTAL (ACRES): 0.68

TOTALS: 5.94 0.03 0.28

POLLUTANT LOAD REDUCTION REQUIREMENTS (LBS): 0.00 0.00 0.00

Characterize Undetained Areas (for Untreated Stormwater)

Land Cover	Area (acres)	Soil Group	CN	Ia (in)	Q Runoff (in)	Runoff Volume (cf)

**Non-Structural SCM Water Quality Credits:**

Pervious Undetained Area Credit

Other (attach calculations)

Description:

TSS	TP	TN

**Structural SCM Water Quality Credits:**

Use default SCM Outflows and Median SCM Outflow Concentrations

POA No.	SCM No.	SCM Name	MRC?	SCM DA (acres)	Vol. Routed to SCM (CF)	Inf. & ET Credits (CF)	Capture & Buffer Credits (CF)	Outflow (CF)	Outflow Conc. (mg/L)			Pollutant Loads (lbs)		
									TSS	TP	TN	TSS	TP	TN

POLLUTANT LOADS FROM STRUCTURAL SCM (TREATED) OUTFLOWS (LBS):

POLLUTANT LOADS FROM UNTREATED STORMWATER (LBS):

NON-STRUCTURAL SCM WATER QUALITY CREDITS (LBS):

NET POLLUTANT LOADS FROM SITE, POST-CONSTRUCTION (LBS):

POLLUTANT LOADS FROM SITE, PRE-CONSTRUCTION (LBS):

TSS	TP	TN
0.00	0.00	0.00
5.94	0.03	0.28
5.94	0.03	0.28
30.61	0.14	1.43

**CERTIFICATION**

I certify under penalty of law and subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities) that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I further certify that the structure, function, and calculations contained in this spreadsheet have not been modified in comparison to the spreadsheet DEP has posted to its website or, if modifications were made, an explanation of the modifications made is attached to this spreadsheet.

**Nicolas Slater**

Spreadsheet User Name

**3/31/2025**

Date

# Water Quality

Project: West Field - POA 2

PRINT

Instructions

General

Volume

Rate

Quality

## Pre-Construction Pollutant Loads:

Land Cover (from Volume Worksheet)	Land Cover for Water Quality	Area (acres)	Soil Group	Runoff Volume (cf)	Pollutant Conc. (mg/L)			Pollutant Loads (lbs)		
					TSS	TP	TN	TSS	TP	TN
Pervious as Meadow	Grassland/Herbaceous	2.90	C	5,435	48.8	0.22	2.30	16.56	0.07	0.78
Pervious as Meadow	Grassland/Herbaceous	17.81	D	53,047	48.8	0.22	2.30	161.65	0.73	7.62
Forested (Good Condition)	Deciduous Forest/Evergreen Forest/Mixed Forest	2.32	C	4,037	45.0	0.13	1.05	11.34	0.03	0.26
Forested (Good Condition)	Deciduous Forest/Evergreen Forest/Mixed Forest	5.83	D	16,335	45.0	0.13	1.05	45.90	0.13	1.07
Impervious Areas: Streets and Roads - Paved; Open Ditches (Including ROW)	Highway (general)	0.29	N/A	1,923	141.0	0.43	2.65	16.93	0.05	0.32
Impervious as Meadow	Grassland/Herbaceous	0.07	N/A	208	48.8	0.22	2.30	0.64	0.00	0.03

**TOTAL (ACRES): 29.22**

**TOTALS: 253.01 1.02 10.08**

## Post-Construction Pollutant Loads (without BMPs):

Land Cover (from Volume Worksheet)	Land Cover for Water	Area	Soil	Runoff Volume	Pollutant Conc. (mg/L)	Pollutant Loads (lbs)
------------------------------------	----------------------	------	------	---------------	------------------------	-----------------------

Land Cover (from volume worksheet)	Quality	(acres)	Group	Volume (cf)	TSS	TP	TN	TSS	TP	TN
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	7.64	C	14,319	48.8	0.22	2.30	43.63	0.20	2.06
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	27.81	D	82,832	48.8	0.22	2.30	252.41	1.14	11.90

**TOTAL (ACRES): 35.45**

**TOTALS: 296.04 1.33 13.95**

**POLLUTANT LOAD REDUCTION REQUIREMENTS (LBS):**

<b>43.03</b>	<b>0.31</b>	<b>3.87</b>
--------------	-------------	-------------

**Characterize Undetained Areas (for Untreated Stormwater)**

Land Cover	Area (acres)	Soil Group	CN	Ia (in)	Q Runoff (in)	Runoff Volume (cf)

**Non-Structural SCM Water Quality Credits:**

Pervious Undetained Area Credit

Other (attach calculations)

Description:

TSS	TP	TN

**Structural SCM Water Quality Credits:**

*Use default SCM Outflows and Median SCM Outflow Concentrations*

POA No.	SCM No.	SCM Name	MRC?	SCM DA (acres)	Vol. Routed to SCM (CF)	Inf. & ET Credits (CF)	Capture & Buffer Credits (CF)	Outflow (CF)	Outflow Conc. (mg/L)			Pollutant Loads (lbs)		
									TSS	TP	TN	TSS	TP	TN
002	1	Rain Garden / Bioretention	Y	10.98	32,483			32,483	-	-	-	-	-	-

002	2	Dry Extended Detention Basin	Y	0.00	32,483			32,483	-	-	-	-	-	-
002	3	Dry Extended Detention Basin	-	20.89	55,407			55,407	22.00	0.19	1.22	76.11	0.66	4.22

	TSS	TP	TN
<b>POLLUTANT LOADS FROM STRUCTURAL SCM (TREATED) OUTFLOWS (LBS):</b>	<b>76.11</b>	<b>0.66</b>	<b>4.22</b>
<b>POLLUTANT LOADS FROM UNTREATED STORMWATER (LBS):</b>	<b>28.22</b>	<b>0.13</b>	<b>1.33</b>
<b>NON-STRUCTURAL SCM WATER QUALITY CREDITS (LBS):</b>			
<b>NET POLLUTANT LOADS FROM SITE, POST-CONSTRUCTION (LBS):</b>	<b>104.34</b>	<b>0.79</b>	<b>5.55</b>
<b>POLLUTANT LOADS FROM SITE, PRE-CONSTRUCTION (LBS):</b>	<b>253.01</b>	<b>1.02</b>	<b>10.08</b>

**WATER QUALITY REQUIREMENT SATISFIED**

**CERTIFICATION**

I certify under penalty of law and subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities) that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I further certify that the structure, function, and calculations contained in this spreadsheet have not been modified in comparison to the spreadsheet DEP has posted to its website or, if modifications were made, an explanation of the modifications made is attached to this spreadsheet.

**Nicolas Slater**

Spreadsheet User Name

**2/12/2025**

Date

# Water Quality

Project: West Field - POA 3

PRINT

Instructions

General

Volume

Rate

Quality

## Pre-Construction Pollutant Loads:

Land Cover (from Volume Worksheet)	Land Cover for Water Quality	Area (acres)	Soil Group	Runoff Volume (cf)	Pollutant Conc. (mg/L)			Pollutant Loads (lbs)		
					TSS	TP	TN	TSS	TP	TN
Pervious as Meadow	Grassland/Herbaceous	31.38	C	58,811	48.8	0.22	2.30	179.21	0.81	8.45
Pervious as Meadow	Grassland/Herbaceous	9.19	D	27,373	48.8	0.22	2.30	83.41	0.38	3.93
Forested (Good Condition)	Deciduous Forest/Evergreen Forest/Mixed Forest	6.00	C	10,440	45.0	0.13	1.05	29.34	0.08	0.68
Forested (Good Condition)	Deciduous Forest/Evergreen Forest/Mixed Forest	2.70	D	7,565	45.0	0.13	1.05	21.26	0.06	0.50
Impervious Areas: Streets and Roads - Paved; Open Ditches (Including ROW)	Highway (general)	0.42	D	2,785	141.0	0.43	2.65	24.52	0.07	0.46
Impervious as Meadow	Grassland/Herbaceous	0.11	D	328	48.8	0.22	2.30	1.00	0.00	0.05

**TOTAL (ACRES): 49.80**

**TOTALS: 338.73 1.41 14.07**

## Post-Construction Pollutant Loads (without BMPs):

Land Cover (from Volume Worksheet)	Land Cover for Water	Area	Soil	Runoff Volume	Pollutant Conc. (mg/L)	Pollutant Loads (lbs)
------------------------------------	----------------------	------	------	---------------	------------------------	-----------------------

Land Cover (from volume worksheet)	Quality	(acres)	Group	Volume (cf)	TSS	TP	TN	TSS	TP	TN
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	36.72	C	68,820	48.8	0.22	2.30	209.71	0.95	9.88
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	12.42	D	36,993	48.8	0.22	2.30	112.73	0.51	5.31

**TOTAL (ACRES): 49.14**

**TOTALS: 322.43 1.45 15.20**

**POLLUTANT LOAD REDUCTION REQUIREMENTS (LBS):**

0.00	0.04	1.13
------	------	------

**Characterize Undetained Areas (for Untreated Stormwater)**

Land Cover	Area (acres)	Soil Group	CN	Ia (in)	Q Runoff (in)	Runoff Volume (cf)

**Non-Structural SCM Water Quality Credits:**

Pervious Undetained Area Credit

Other (attach calculations)

Description:

TSS	TP	TN

**Structural SCM Water Quality Credits:**

*Use default SCM Outflows and Median SCM Outflow Concentrations*

POA No.	SCM No.	SCM Name	MRC?	SCM DA (acres)	Vol. Routed to SCM (CF)	Inf. & ET Credits (CF)	Capture & Buffer Credits (CF)	Outflow (CF)	Outflow Conc. (mg/L)			Pollutant Loads (lbs)		
									TSS	TP	TN	TSS	TP	TN
003	3	Dry Extended Detention Basin	-	17.25	37,045			37,045	22.00	0.19	1.22	50.89	0.44	2.82



003	4	Dry Extended Detention Basin	-	4.68	10,593			10,593	22.00	0.19	1.22	14.55	0.13	0.81
003	5	Dry Extended Detention Basin	-	15.98	36,399			36,399	22.00	0.19	1.22	50.00	0.43	2.77

	TSS	TP	TN
<b>POLLUTANT LOADS FROM STRUCTURAL SCM (TREATED) OUTFLOWS (LBS):</b>	<b>115.44</b>	<b>1.00</b>	<b>6.40</b>
<b>POLLUTANT LOADS FROM UNTREATED STORMWATER (LBS):</b>	<b>66.35</b>	<b>0.30</b>	<b>3.13</b>
<b>NON-STRUCTURAL SCM WATER QUALITY CREDITS (LBS):</b>			
<b>NET POLLUTANT LOADS FROM SITE, POST-CONSTRUCTION (LBS):</b>	<b>181.80</b>	<b>1.30</b>	<b>9.53</b>
<b>POLLUTANT LOADS FROM SITE, PRE-CONSTRUCTION (LBS):</b>	<b>338.73</b>	<b>1.41</b>	<b>14.07</b>

**WATER QUALITY REQUIREMENT SATISFIED**

### CERTIFICATION

I certify under penalty of law and subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities) that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I further certify that the structure, function, and calculations contained in this spreadsheet have not been modified in comparison to the spreadsheet DEP has posted to its website or, if modifications were made, an explanation of the modifications made is attached to this spreadsheet.

**Nicolas Slater**

Spreadsheet User Name

**2/12/2025**

Date

# Water Quality

Project: West Field - POA 4

PRINT

Instructions

General

Volume

Rate

Quality

## Pre-Construction Pollutant Loads:

Land Cover (from Volume Worksheet)	Land Cover for Water Quality	Area (acres)	Soil Group	Runoff Volume (cf)	Pollutant Conc. (mg/L)			Pollutant Loads (lbs)		
					TSS	TP	TN	TSS	TP	TN
Pervious as Meadow	Grassland/Herbaceous	1.50	C	2,811	48.8	0.22	2.30	8.57	0.04	0.40
Pervious as Meadow	Grassland/Herbaceous	7.70	D	22,935	48.8	0.22	2.30	69.89	0.32	3.29
Forested (Good Condition)	Deciduous Forest/Evergreen Forest/Mixed Forest	0.20	C	348	45.0	0.13	1.05	0.98	0.00	0.02
Forested (Good Condition)	Deciduous Forest/Evergreen Forest/Mixed Forest	0.97	D	2,718	45.0	0.13	1.05	7.64	0.02	0.18
Impervious Areas: Streets and Roads - Paved; Open Ditches (Including ROW)	Highway (general)	0.29	D	1,923	141.0	0.43	2.65	16.93	0.05	0.32
Impervious as Meadow	Grassland/Herbaceous	0.07	D	208	48.8	0.22	2.30	0.64	0.00	0.03

**TOTAL (ACRES): 10.73**

**TOTALS: 104.63 0.43 4.25**

## Post-Construction Pollutant Loads (without BMPs):

Land Cover (from Volume Worksheet)	Land Cover for Water	Area	Soil	Runoff Volume	Pollutant Conc. (mg/L)	Pollutant Loads (lbs)
------------------------------------	----------------------	------	------	---------------	------------------------	-----------------------

Land Cover (from volume worksheet)	Quality	(acres)	Group	Volume (cf)	TSS	TP	TN	TSS	TP	TN
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	0.70	C	1,312	48.8	0.22	2.30	4.00	0.02	0.19
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	4.57	D	13,612	48.8	0.22	2.30	41.48	0.19	1.95
<b>TOTAL (ACRES):</b>		<b>5.27</b>			<b>TOTALS:</b>			<b>45.48</b>	<b>0.21</b>	<b>2.14</b>

<b>POLLUTANT LOAD REDUCTION REQUIREMENTS (LBS):</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
---	-------------	-------------	-------------

Characterize Undetained Areas (for Untreated Stormwater)

Land Cover	Area (acres)	Soil Group	CN	la (in)	Q Runoff (in)	Runoff Volume (cf)

**Non-Structural SCM Water Quality Credits:**

Pervious Undetained Area Credit

Other (attach calculations)

Description:

TSS	TP	TN

**Structural SCM Water Quality Credits:**

Use default SCM Outflows and Median SCM Outflow Concentrations

POA No.	SCM No.	SCM Name	MRC?	SCM DA (acres)	Vol. Routed to SCM (CF)	Inf. & ET Credits (CF)	Capture & Buffer Credits (CF)	Outflow (CF)	Outflow Conc. (mg/L)			Pollutant Loads (lbs)		
									TSS	TP	TN	TSS	TP	TN

	TSS	TP	TN
<b>POLLUTANT LOADS FROM STRUCTURAL SCM (TREATED) OUTFLOWS (LBS):</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>POLLUTANT LOADS FROM UNTREATED STORMWATER (LBS):</b>	<b>45.48</b>	<b>0.21</b>	<b>2.14</b>
<b>NON-STRUCTURAL SCM WATER QUALITY CREDITS (LBS):</b>			
<b>NET POLLUTANT LOADS FROM SITE, POST-CONSTRUCTION (LBS):</b>	<b>45.48</b>	<b>0.21</b>	<b>2.14</b>
<b>POLLUTANT LOADS FROM SITE, PRE-CONSTRUCTION (LBS):</b>	<b>104.63</b>	<b>0.43</b>	<b>4.25</b>

**WATER QUALITY REQUIREMENT SATISFIED**

**CERTIFICATION**

I certify under penalty of law and subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities) that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I further certify that the structure, function, and calculations contained in this spreadsheet have not been modified in comparison to the spreadsheet DEP has posted to its website or, if modifications were made, an explanation of the modifications made is attached to this spreadsheet.

**Nicolas Slater**

Spreadsheet User Name

**3/31/2025**

Date

# Water Quality

Project: West Field - POA 5

PRINT

Instructions

General

Volume

Rate

Quality

## Pre-Construction Pollutant Loads:

Land Cover (from Volume Worksheet)	Land Cover for Water Quality	Area (acres)	Soil Group	Runoff Volume (cf)	Pollutant Conc. (mg/L)			Pollutant Loads (lbs)		
					TSS	TP	TN	TSS	TP	TN
Pervious as Meadow	Grassland/Herbaceous	5.26	C	9,858	48.8	0.22	2.30	30.04	0.14	1.42
Pervious as Meadow	Grassland/Herbaceous	18.57	D	55,311	48.8	0.22	2.30	168.54	0.76	7.94
Forested (Good Condition)	Deciduous Forest/Evergreen Forest/Mixed Forest	3.21	C	5,585	45.0	0.13	1.05	15.69	0.05	0.37
Forested (Good Condition)	Deciduous Forest/Evergreen Forest/Mixed Forest	0.81	D	2,269	45.0	0.13	1.05	6.38	0.02	0.15
Impervious Areas: Streets and Roads - Paved; Open Ditches (Including ROW)	Highway (general)	0.08	D	530	141.0	0.43	2.65	4.67	0.01	0.09
Impervious as Meadow	Grassland/Herbaceous	0.02	D	60	48.8	0.22	2.30	0.18	0.00	0.01

**TOTAL (ACRES): 27.95**

**TOTALS: 225.51 0.97 9.97**

## Post-Construction Pollutant Loads (without BMPs):

Land Cover (from Volume Worksheet)	Land Cover for Water	Area	Soil	Runoff Volume	Pollutant Conc. (mg/L)	Pollutant Loads (lbs)
------------------------------------	----------------------	------	------	---------------	------------------------	-----------------------

Land Cover (from volume worksheet)	Quality	(acres)	Group	Volume (cf)	TSS	TP	TN	TSS	TP	TN
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	9.91	C	18,573	48.8	0.22	2.30	56.60	0.26	2.67
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	21.50	D	64,038	48.8	0.22	2.30	195.14	0.88	9.20

**TOTAL (ACRES): 31.41**

**TOTALS: 251.73 1.13 11.86**

**POLLUTANT LOAD REDUCTION REQUIREMENTS (LBS):**

<b>26.23</b>	<b>0.16</b>	<b>1.89</b>
--------------	-------------	-------------

**Characterize Undetained Areas (for Untreated Stormwater)**

Land Cover	Area (acres)	Soil Group	CN	Ia (in)	Q Runoff (in)	Runoff Volume (cf)

**Non-Structural SCM Water Quality Credits:**

Pervious Undetained Area Credit

Other (attach calculations)

Description:

TSS	TP	TN

**Structural SCM Water Quality Credits:**

*Use default SCM Outflows and Median SCM Outflow Concentrations*

POA No.	SCM No.	SCM Name	MRC?	SCM DA (acres)	Vol. Routed to SCM (CF)	Inf. & ET Credits (CF)	Capture & Buffer Credits (CF)	Outflow (CF)	Outflow Conc. (mg/L)			Pollutant Loads (lbs)		
									TSS	TP	TN	TSS	TP	TN
005	6	Rain Garden / Bioretention	Y	13.81	36,992			36,992	-	-	-	-	-	-

005	7	Dry Extended Detention Basin	Y	0.00	36,992			36,992	-	-	-	-	-	-
005	8	Dry Extended Detention Basin	-	12.52	33,459			33,459	22.00	0.19	1.22	45.96	0.40	2.55

	TSS	TP	TN
<b>POLLUTANT LOADS FROM STRUCTURAL SCM (TREATED) OUTFLOWS (LBS):</b>	<b>45.96</b>	<b>0.40</b>	<b>2.55</b>
<b>POLLUTANT LOADS FROM UNTREATED STORMWATER (LBS):</b>	<b>37.05</b>	<b>0.17</b>	<b>1.75</b>
<b>NON-STRUCTURAL SCM WATER QUALITY CREDITS (LBS):</b>			
<b>NET POLLUTANT LOADS FROM SITE, POST-CONSTRUCTION (LBS):</b>	<b>83.02</b>	<b>0.57</b>	<b>4.30</b>
<b>POLLUTANT LOADS FROM SITE, PRE-CONSTRUCTION (LBS):</b>	<b>225.51</b>	<b>0.97</b>	<b>9.97</b>

**WATER QUALITY REQUIREMENT SATISFIED**

**CERTIFICATION**

I certify under penalty of law and subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities) that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I further certify that the structure, function, and calculations contained in this spreadsheet have not been modified in comparison to the spreadsheet DEP has posted to its website or, if modifications were made, an explanation of the modifications made is attached to this spreadsheet.

**Nicolas Slater**

Spreadsheet User Name

**2/12/2025**

Date

# Water Quality

Project: West Field - POA 6

PRINT

Instructions

General

Volume

Rate

Quality

## Pre-Construction Pollutant Loads:

Land Cover (from Volume Worksheet)	Land Cover for Water Quality	Area (acres)	Soil Group	Runoff Volume (cf)	Pollutant Conc. (mg/L)			Pollutant Loads (lbs)		
					TSS	TP	TN	TSS	TP	TN
Pervious as Meadow	Grassland/Herbaceous	2.14	D	6,374	48.8	0.22	2.30	19.42	0.09	0.92
<b>TOTAL (ACRES):</b>		<b>2.14</b>			<b>TOTALS:</b>			<b>19.42</b>	<b>0.09</b>	<b>0.92</b>

## Post-Construction Pollutant Loads (without BMPs):

Land Cover (from Volume Worksheet)	Land Cover for Water Quality	Area (acres)	Soil Group	Runoff Volume (cf)	Pollutant Conc. (mg/L)			Pollutant Loads (lbs)		
					TSS	TP	TN	TSS	TP	TN
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	0.26	C	487	48.8	0.22	2.30	1.48	0.01	0.07
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	1.84	D	5,480	48.8	0.22	2.30	16.70	0.08	0.79
<b>TOTAL (ACRES):</b>		<b>2.10</b>			<b>TOTALS:</b>			<b>18.18</b>	<b>0.08</b>	<b>0.86</b>

POLLUTANT LOAD REDUCTION REQUIREMENTS (LBS):

0.00	0.00	0.00
------	------	------



Characterize Undetained Areas (for Untreated Stormwater)

Land Cover	Area (acres)	Soil Group	CN	Ia (in)	Q Runoff (in)	Runoff Volume (cf)

**Non-Structural SCM Water Quality Credits:**

Pervious Undetained Area Credit

Other (attach calculations)

Description:

TSS	TP	TN

**Structural SCM Water Quality Credits:**

Use default SCM Outflows and Median SCM Outflow Concentrations

POA No.	SCM No.	SCM Name	MRC?	SCM DA (acres)	Vol. Routed to SCM (CF)	Inf. & ET Credits (CF)	Capture & Buffer Credits (CF)	Outflow (CF)	Outflow Conc. (mg/L)			Pollutant Loads (lbs)		
									TSS	TP	TN	TSS	TP	TN

TSS	TP	TN
0.00	0.00	0.00
18.18	0.08	0.86
18.18	0.08	0.86
19.42	0.09	0.92

POLLUTANT LOADS FROM STRUCTURAL SCM (TREATED) OUTFLOWS (LBS):

POLLUTANT LOADS FROM UNTREATED STORMWATER (LBS):

NON-STRUCTURAL SCM WATER QUALITY CREDITS (LBS):

NET POLLUTANT LOADS FROM SITE, POST-CONSTRUCTION (LBS):

POLLUTANT LOADS FROM SITE, PRE-CONSTRUCTION (LBS):

**WATER QUALITY REQUIREMENT SATISFIED**

**CERTIFICATION**

I certify under penalty of law and subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities) that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I further certify that the structure, function, and calculations contained in this spreadsheet have not been modified in comparison to the spreadsheet DEP has posted to its website or, if modifications were made, an explanation of the modifications made is attached to this spreadsheet.

**Nicolas Slater**

Spreadsheet User Name

**3/31/2025**

Date

# Water Quality

Project: West Field - POA 7

PRINT

Instructions

General

Volume

Rate

Quality

## Pre-Construction Pollutant Loads:

Land Cover (from Volume Worksheet)	Land Cover for Water Quality	Area (acres)	Soil Group	Runoff Volume (cf)	Pollutant Conc. (mg/L)			Pollutant Loads (lbs)			
					TSS	TP	TN	TSS	TP	TN	
Pervious as Meadow	Grassland/Herbaceous	5.73	C	10,739	48.8	0.22	2.30	32.72	0.15	1.54	
Pervious as Meadow	Grassland/Herbaceous	4.31	D	12,837	48.8	0.22	2.30	39.12	0.18	1.84	
Forested (Good Condition)	Deciduous Forest/Evergreen Forest/Mixed Forest	1.02	A	0	45.0	0.13	1.05	0.00	0.00	0.00	
Forested (Good Condition)	Deciduous Forest/Evergreen Forest/Mixed Forest	1.22	C	2,123	45.0	0.13	1.05	5.96	0.02	0.14	
Forested (Good Condition)	Deciduous Forest/Evergreen Forest/Mixed Forest	4.95	D	13,869	45.0	0.13	1.05	38.97	0.11	0.91	
<b>TOTAL (ACRES):</b>		<b>17.23</b>			<b>TOTALS:</b>			<b>116.78</b>	<b>0.45</b>	<b>4.43</b>	

## Post-Construction Pollutant Loads (without BMPs):

Land Cover (from Volume Worksheet)	Land Cover for Water Quality	Area (acres)	Soil Group	Runoff Volume (cf)	Pollutant Conc. (mg/L)			Pollutant Loads (lbs)		
					TSS	TP	TN	TSS	TP	TN

Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	1.02	A	0	48.8	0.22	2.30	0.00	0.00	0.00
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	7.82	C	14,656	48.8	0.22	2.30	44.66	0.20	2.10
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	8.21	D	24,454	48.8	0.22	2.30	74.51	0.34	3.51

**TOTAL (ACRES): 17.05**

**TOTALS: 119.17 0.54 5.62**

**POLLUTANT LOAD REDUCTION REQUIREMENTS (LBS):** 2.40 0.08 1.18

**Characterize Undetained Areas (for Untreated Stormwater)**

No. Rows: 3

Land Cover	Area (acres)	Soil Group	CN	la (in)	Q Runoff (in)	Runoff Volume (cf)
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	1.02	A	30	4.667	0.00	0
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	0.57	C	71	0.817	0.52	1,068
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	1.97	D	78	0.564	0.82	5,868

**Non-Structural SCM Water Quality Credits:**

Pervious Undetained Area Credit

Other (attach calculations)

Description:

TSS	TP	TN

**Structural SCM Water Quality Credits:**

*Use default SCM Outflows and Median SCM Outflow Concentrations*

POA No.	SCM No.	SCM Name	MRC?	SCM DA (acres)	Vol. Routed to SCM (CF)	Inf. & ET Credits (CF)	Capture & Buffer Credits (CF)	Outflow (CF)	Outflow Conc. (mg/L)			Pollutant Loads (lbs)		
									TSS	TP	TN	TSS	TP	TN
007	9	Dry Extended Detention Basin	-	13.49	32,174	3,919		28,255	22.00	0.19	1.22	38.81	0.34	2.15

**POLLUTANT LOADS FROM STRUCTURAL SCM (TREATED) OUTFLOWS (LBS):**

**POLLUTANT LOADS FROM UNTREATED STORMWATER (LBS):**

**NON-STRUCTURAL SCM WATER QUALITY CREDITS (LBS):**

**NET POLLUTANT LOADS FROM SITE, POST-CONSTRUCTION (LBS):**

**POLLUTANT LOADS FROM SITE, PRE-CONSTRUCTION (LBS):**

TSS	TP	TN
38.81	0.34	2.15
21.14	0.10	1.00
59.95	0.44	3.15
116.78	0.45	4.43

**WATER QUALITY REQUIREMENT SATISFIED**

### CERTIFICATION

I certify under penalty of law and subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities) that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I further certify that the structure, function, and calculations contained in this spreadsheet have not been modified in comparison to the spreadsheet DEP has posted to its website or, if modifications were made, an explanation of the modifications made is attached to this spreadsheet.

Nicolas Slater

Spreadsheet User Name

2/12/2025

Date

# Water Quality

Project: West Field - POA 8

PRINT

Instructions

General

Volume

Rate

Quality

## Pre-Construction Pollutant Loads:

Land Cover (from Volume Worksheet)	Land Cover for Water Quality	Area (acres)	Soil Group	Runoff Volume (cf)	Pollutant Conc. (mg/L)			Pollutant Loads (lbs)		
					TSS	TP	TN	TSS	TP	TN
Pervious as Meadow	Grassland/Herbaceous	7.62	C	14,281	48.8	0.22	2.30	43.52	0.20	2.05
Pervious as Meadow	Grassland/Herbaceous	6.79	D	20,224	48.8	0.22	2.30	61.63	0.28	2.90
Forested (Good Condition)	Deciduous Forest/Evergreen Forest/Mixed Forest	0.01	C	17	45.0	0.13	1.05	0.05	0.00	0.00
Forested (Good Condition)	Deciduous Forest/Evergreen Forest/Mixed Forest	0.04	D	112	45.0	0.13	1.05	0.31	0.00	0.01
<b>TOTAL (ACRES):</b>		<b>14.46</b>			<b>TOTALS:</b>			<b>105.51</b>	<b>0.48</b>	<b>4.96</b>

## Post-Construction Pollutant Loads (without BMPs):

Land Cover (from Volume Worksheet)	Land Cover for Water Quality	Area (acres)	Soil Group	Runoff Volume (cf)	Pollutant Conc. (mg/L)			Pollutant Loads (lbs)		
					TSS	TP	TN	TSS	TP	TN
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	4.49	C	8,415	48.8	0.22	2.30	25.64	0.12	1.21

Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	10.90	D	32,466	48.8	0.22	2.30	98.93	0.45	4.66
---	----------------------	-------	---	--------	------	------	------	-------	------	------

**TOTAL (ACRES): 15.39**

**TOTALS: 124.57 0.56 5.87**

**POLLUTANT LOAD REDUCTION REQUIREMENTS (LBS): 19.06 0.09 0.91**

**Characterize Undetained Areas (for Untreated Stormwater)**

Land Cover	Area (acres)	Soil Group	CN	Ia (in)	Q Runoff (in)	Runoff Volume (cf)

**Non-Structural SCM Water Quality Credits:**

Pervious Undetained Area Credit

Other (attach calculations)

Description:

TSS	TP	TN

**Structural SCM Water Quality Credits:**

*Use default SCM Outflows and Median SCM Outflow Concentrations*

POA No.	SCM No.	SCM Name	MRC?	SCM DA (acres)	Vol. Routed to SCM (CF)	Inf. & ET Credits (CF)	Capture & Buffer Credits (CF)	Outflow (CF)	Outflow Conc. (mg/L)			Pollutant Loads (lbs)		
									TSS	TP	TN	TSS	TP	TN
008	10	Rain Garden / Bioretention	Y	12.05	32,368			32,368	-	-	-	-	-	-
008	11	Dry Extended Detention Basin	Y	0.00	32,368			32,368	-	-	-	-	-	-

TSS	TP	TN

<b>POLLUTANT LOADS FROM STRUCTURAL SCM (TREATED) OUTFLOWS (LBS):</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>POLLUTANT LOADS FROM UNTREATED STORMWATER (LBS):</b>	<b>25.94</b>	<b>0.12</b>	<b>1.22</b>
<b>NON-STRUCTURAL SCM WATER QUALITY CREDITS (LBS):</b>			
<b>NET POLLUTANT LOADS FROM SITE, POST-CONSTRUCTION (LBS):</b>	<b>25.94</b>	<b>0.12</b>	<b>1.22</b>
<b>POLLUTANT LOADS FROM SITE, PRE-CONSTRUCTION (LBS):</b>	<b>105.51</b>	<b>0.48</b>	<b>4.96</b>

**WATER QUALITY REQUIREMENT SATISFIED**

**CERTIFICATION**

I certify under penalty of law and subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities) that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I further certify that the structure, function, and calculations contained in this spreadsheet have not been modified in comparison to the spreadsheet DEP has posted to its website or, if modifications were made, an explanation of the modifications made is attached to this spreadsheet.

**Nicolas Slater**

Spreadsheet User Name

**2/12/2025**

Date



# Water Quality

Project: West Field - POA 9

PRINT

Instructions

General

Volume

Rate

Quality

## Pre-Construction Pollutant Loads:

Land Cover (from Volume Worksheet)	Land Cover for Water Quality	Area (acres)	Soil Group	Runoff Volume (cf)	Pollutant Conc. (mg/L)			Pollutant Loads (lbs)		
					TSS	TP	TN	TSS	TP	TN
Pervious as Meadow	Grassland/Herbaceous	0.22	C	412	48.8	0.22	2.30	1.26	0.01	0.06
Pervious as Meadow	Grassland/Herbaceous	2.86	D	8,519	48.8	0.22	2.30	25.96	0.12	1.22
Forested (Good Condition)	Deciduous Forest/Evergreen Forest/Mixed Forest	0.68	D	1,905	45.0	0.13	1.05	5.35	0.02	0.12
Impervious Areas: Streets and Roads - Paved; Open Ditches (Including ROW)	Highway (general)	0.12	D	796	141.0	0.43	2.65	7.01	0.02	0.13
Impervious as Meadow	Grassland/Herbaceous	0.03	D	89	48.8	0.22	2.30	0.27	0.00	0.01
<b>TOTAL (ACRES):</b>		<b>3.91</b>			<b>TOTALS:</b>			<b>39.84</b>	<b>0.16</b>	<b>1.55</b>

## Post-Construction Pollutant Loads (without BMPs):

Land Cover (from Volume Worksheet)	Land Cover for Water Quality	Area (acres)	Soil Group	Runoff Volume (cf)	Pollutant Conc. (mg/L)			Pollutant Loads (lbs)		
					TSS	TP	TN	TSS	TP	TN

Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	0.61	C	1,143	48.8	0.22	2.30	3.48	0.02	0.16
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	3.08	D	9,174	48.8	0.22	2.30	27.95	0.13	1.32

**TOTAL (ACRES): 3.69**

**TOTALS: 31.44 0.14 1.48**

**POLLUTANT LOAD REDUCTION REQUIREMENTS (LBS):**

0.00	0.00	0.00
------	------	------

**Characterize Undetained Areas (for Untreated Stormwater)**

Land Cover	Area (acres)	Soil Group	CN	la (in)	Q Runoff (in)	Runoff Volume (cf)

**Non-Structural SCM Water Quality Credits:**

Pervious Undetained Area Credit

Other (attach calculations)

Description:

TSS	TP	TN

**Structural SCM Water Quality Credits:**

*Use default SCM Outflows and Median SCM Outflow Concentrations*

POA No.	SCM No.	SCM Name	MRC?	SCM DA (acres)	Vol. Routed to SCM (CF)	Inf. & ET Credits (CF)	Capture & Buffer Credits (CF)	Outflow (CF)	Outflow Conc. (mg/L)			Pollutant Loads (lbs)		
									TSS	TP	TN	TSS	TP	TN

TSS	TP	TN

<b>POLLUTANT LOADS FROM STRUCTURAL SCM (TREATED) OUTFLOWS (LBS):</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>POLLUTANT LOADS FROM UNTREATED STORMWATER (LBS):</b>	<b>31.44</b>	<b>0.14</b>	<b>1.48</b>
<b>NON-STRUCTURAL SCM WATER QUALITY CREDITS (LBS):</b>			
<b>NET POLLUTANT LOADS FROM SITE, POST-CONSTRUCTION (LBS):</b>	<b>31.44</b>	<b>0.14</b>	<b>1.48</b>
<b>POLLUTANT LOADS FROM SITE, PRE-CONSTRUCTION (LBS):</b>	<b>39.84</b>	<b>0.16</b>	<b>1.55</b>

**WATER QUALITY REQUIREMENT SATISFIED**

**CERTIFICATION**

I certify under penalty of law and subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities) that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I further certify that the structure, function, and calculations contained in this spreadsheet have not been modified in comparison to the spreadsheet DEP has posted to its website or, if modifications were made, an explanation of the modifications made is attached to this spreadsheet.

**Nicolas Slater**

Spreadsheet User Name

**3/31/2025**

Date

# Water Quality

Project: West Field - POA 10

PRINT

Instructions

General

Volume

Rate

Quality

## Pre-Construction Pollutant Loads:

Land Cover (from Volume Worksheet)	Land Cover for Water Quality	Area (acres)	Soil Group	Runoff Volume (cf)	Pollutant Conc. (mg/L)			Pollutant Loads (lbs)			
					TSS	TP	TN	TSS	TP	TN	
Pervious as Meadow	Grassland/Herbaceous	0.28	C	525	48.8	0.22	2.30	1.60	0.01	0.08	
Pervious as Meadow	Grassland/Herbaceous	3.56	D	10,604	48.8	0.22	2.30	32.31	0.15	1.52	
Forested (Good Condition)	Deciduous Forest/Evergreen Forest/Mixed Forest	0.42	C	731	45.0	0.13	1.05	2.05	0.01	0.05	
Forested (Good Condition)	Deciduous Forest/Evergreen Forest/Mixed Forest	1.77	D	4,959	45.0	0.13	1.05	13.93	0.04	0.33	
Impervious Areas: Paved Parking Lots, Roofs, Driveways, Etc. (Excluding ROW)	Residential	0.16	D	1,348	65.0	0.29	2.05	5.47	0.02	0.17	
Impervious as Meadow	Grassland/Herbaceous	0.04	D	119	48.8	0.22	2.30	0.36	0.00	0.02	
<b>TOTAL (ACRES):</b>		<b>6.23</b>			<b>TOTALS:</b>			<b>55.73</b>	<b>0.23</b>	<b>2.16</b>	

## Post-Construction Pollutant Loads (without BMPs):

Land Cover (from Volume Worksheet)	Land Cover for Water	Area	Soil	Runoff Volume	Pollutant Conc. (mg/L)	Pollutant Loads (lbs)
------------------------------------	----------------------	------	------	---------------	------------------------	-----------------------

Land Cover (from Volume Worksheet)	Quality	(acres)	Group	Volume (cf)	TSS	TP	TN	TSS	TP	TN
Impervious Areas: Paved Parking Lots, Roofs, Driveways, Etc. (Excluding ROW)	Residential	0.68	D	5,728	65.0	0.29	2.05	23.25	0.10	0.73
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	0.52	C	975	48.8	0.22	2.30	2.97	0.01	0.14
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	3.63	D	10,812	48.8	0.22	2.30	32.95	0.15	1.55

**TOTAL (ACRES): 4.83**

**TOTALS: 59.16 0.27 2.43**

**POLLUTANT LOAD REDUCTION REQUIREMENTS (LBS):**

<b>3.43</b>	<b>0.04</b>	<b>0.27</b>
-------------	-------------	-------------

Characterize Undetained Areas (for Untreated Stormwater)

**Non-Structural SCM Water Quality Credits:**

Pervious Undetained Area Credit

Other (attach calculations)

TSS	TP	TN

Description:

**Structural SCM Water Quality Credits:**

Use default SCM Outflows and Median SCM Outflow Concentrations

POA No.	SCM No.	SCM Name	MRC?	SCM DA (acres)	Vol. Routed to SCM (CF)	Inf. & ET Credits (CF)	Capture & Buffer Credits (CF)	Outflow (CF)	Outflow Conc. (mg/L)			Pollutant Loads (lbs)		
									TSS	TP	TN	TSS	TP	TN
010	12	Dry Extended Detention Basin	-	1.80	8,846	151		8,695	22.00	0.19	1.22	11.94	0.10	0.66

TSS	TP	TN

<b>POLLUTANT LOADS FROM STRUCTURAL SCM (TREATED) OUTFLOWS (LBS):</b>	<b>11.94</b>	<b>0.10</b>	<b>0.66</b>
<b>POLLUTANT LOADS FROM UNTREATED STORMWATER (LBS):</b>	<b>29.28</b>	<b>0.13</b>	<b>1.20</b>
<b>NON-STRUCTURAL SCM WATER QUALITY CREDITS (LBS):</b>			
<b>NET POLLUTANT LOADS FROM SITE, POST-CONSTRUCTION (LBS):</b>	<b>41.23</b>	<b>0.23</b>	<b>1.86</b>
<b>POLLUTANT LOADS FROM SITE, PRE-CONSTRUCTION (LBS):</b>	<b>55.73</b>	<b>0.23</b>	<b>2.16</b>

**WATER QUALITY REQUIREMENT SATISFIED**

**CERTIFICATION**

I certify under penalty of law and subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities) that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I further certify that the structure, function, and calculations contained in this spreadsheet have not been modified in comparison to the spreadsheet DEP has posted to its website or, if modifications were made, an explanation of the modifications made is attached to this spreadsheet.

**Nicolas Slater**

Spreadsheet User Name

**2/18/2025**

Date

# Water Quality

Project: West Field - POA 11

PRINT

Instructions

General

Volume

Rate

Quality

## Pre-Construction Pollutant Loads:

Land Cover (from Volume Worksheet)	Land Cover for Water Quality	Area (acres)	Soil Group	Runoff Volume (cf)	Pollutant Conc. (mg/L)			Pollutant Loads (lbs)		
					TSS	TP	TN	TSS	TP	TN
Pervious as Meadow	Grassland/Herbaceous	2.35	C	4,404	48.8	0.22	2.30	13.42	0.06	0.63
Pervious as Meadow	Grassland/Herbaceous	1.00	D	2,979	48.8	0.22	2.30	9.08	0.04	0.43
Impervious Areas: Paved Parking Lots, Roofs, Driveways, Etc. (Excluding ROW)	Residential	0.25	D	2,106	65.0	0.29	2.05	8.55	0.04	0.27
Forested (Good Condition)	Deciduous Forest/Evergreen Forest/Mixed Forest	0.05	C	87	45.0	0.13	1.05	0.24	0.00	0.01
<b>TOTAL (ACRES):</b>		<b>3.65</b>			<b>TOTALS:</b>			<b>31.29</b>	<b>0.14</b>	<b>1.34</b>

## Post-Construction Pollutant Loads (without BMPs):

Land Cover (from Volume Worksheet)	Land Cover for Water Quality	Area (acres)	Soil Group	Runoff Volume (cf)	Pollutant Conc. (mg/L)			Pollutant Loads (lbs)		
					TSS	TP	TN	TSS	TP	TN
Impervious Areas: Streets and Roads - Paved; Open Ditches (Including ROW)	Highway (general)	0.89	D	5,901	141.0	0.43	2.65	51.95	0.16	0.98

Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	2.22	C	4,161	48.8	0.22	2.30	12.68	0.06	0.60
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	1.11	D	3,306	48.8	0.22	2.30	10.07	0.05	0.47

**TOTAL (ACRES): 4.22**

**TOTALS: 74.71 0.26 2.05**

**POLLUTANT LOAD REDUCTION REQUIREMENTS (LBS): 43.42 0.12 0.71**

**Characterize Undetained Areas (for Untreated Stormwater)**

Land Cover	Area (acres)	Soil Group	CN	Ia (in)	Q Runoff (in)	Runoff Volume (cf)

**Non-Structural SCM Water Quality Credits:**

- Pervious Undetained Area Credit
- Other (attach calculations)

Description:

TSS	TP	TN

**Structural SCM Water Quality Credits:**

*Use default SCM Outflows and Median SCM Outflow Concentrations*

POA No.	SCM No.	SCM Name	MRC?	SCM DA (acres)	Vol. Routed to SCM (CF)	Inf. & ET Credits (CF)	Capture & Buffer Credits (CF)	Outflow (CF)	Outflow Conc. (mg/L)			Pollutant Loads (lbs)		
									TSS	TP	TN	TSS	TP	TN
011	13	Rain Garden / Bioretention	Y	2.77	10,766			10,766	-	-	-	-	-	-
011	14	Dry Extended Detention Basin	Y	0.00	11,837			11,837	-	-	-	-	-	-



	TSS	TP	TN
<b>POLLUTANT LOADS FROM STRUCTURAL SCM (TREATED) OUTFLOWS (LBS):</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>POLLUTANT LOADS FROM UNTREATED STORMWATER (LBS):</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>NON-STRUCTURAL SCM WATER QUALITY CREDITS (LBS):</b>			
<b>NET POLLUTANT LOADS FROM SITE, POST-CONSTRUCTION (LBS):</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>POLLUTANT LOADS FROM SITE, PRE-CONSTRUCTION (LBS):</b>	<b>31.29</b>	<b>0.14</b>	<b>1.34</b>

**WATER QUALITY REQUIREMENT SATISFIED**

### CERTIFICATION

I certify under penalty of law and subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities) that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I further certify that the structure, function, and calculations contained in this spreadsheet have not been modified in comparison to the spreadsheet DEP has posted to its website or, if modifications were made, an explanation of the modifications made is attached to this spreadsheet.

**Nicolas Slater**

Spreadsheet User Name

**2/18/2025**

Date