

# Water Quality

Project: HCPP Pipeline - POA-2

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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	0.06	D	190	48.8	0.22	2.30	0.58	0.00	0.03
Pervious as Meadow	Grassland/Herbaceous	0.06	C	119	48.8	0.22	2.30	0.36	0.00	0.02
Forested (Good Condition)	Deciduous Forest/Evergreen Forest/Mixed Forest	0.59	D	1,635	45.0	0.13	1.05	4.59	0.01	0.11
Forested (Good Condition)	Deciduous Forest/Evergreen Forest/Mixed Forest	1.14	C	1,941	45.0	0.13	1.05	5.45	0.02	0.13
Impervious Areas: Streets and Roads - Gravel (Including ROW)	Highway (general)	0.01	D	54	141.0	0.43	2.65	0.47	0.00	0.01
Impervious as Meadow	Grassland/Herbaceous	0.00	D	6	48.8	0.22	2.30	0.02	0.00	0.00
<b>TOTAL (ACRES):</b>		<b>1.87</b>			<b>TOTALS:</b>			<b>11.48</b>	<b>0.03</b>	<b>0.29</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)
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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	0.47	D	1,382	48.8	0.22	2.30	4.21	0.02	0.20
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	Grassland/Herbaceous	0.85	C	1,556	48.8	0.22	2.30	4.74	0.02	0.22
Impervious Areas: Industrial	Industrial	0.56	N/A	4,637	81.0	0.24	2.01	23.45	0.07	0.58
<b>TOTAL (ACRES):</b>		<b>1.87</b>			<b>TOTALS:</b>			<b>32.40</b>	<b>0.11</b>	<b>1.00</b>

**POLLUTANT LOAD REDUCTION REQUIREMENTS (LBS):** **20.93** **0.08** **0.72**

**Characterize Undetained Areas (for Untreated Stormwater)**      No. Rows: 2

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	0.325	D	78	0.564	0.81	953
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	0.408	C	71	0.817	0.51	750

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

Pervious Undetained Area Credit

TSS	TP	TN
1.30	0.00	0.04

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	2	Dry Extended Detention Basin	-	0.71	4,319	0		4,319	-	-	-	-	-	-
002	3	Rain Garden / Bioretention		0.43	5,804	5,376		428	10.00	0.24	0.96	0.27	0.01	0.03

**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
0.27	0.01	0.03
5.19	0.02	0.24
1.30	0.00	0.04
4.16	0.03	0.23
11.48	0.03	0.29

**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.

**Charles Kane, P.E.**

Spreadsheet User Name

9/24/2025

Date