

## General Information

Instructions
General
Volume
Rate
Quality

<p>Project Name: <input style="width: 90%;" type="text" value="HCPP Pipeline - POA-1"/></p> <p>County: <input style="width: 90%;" type="text" value="Indiana"/></p> <p>Project Type: <input style="width: 90%;" type="text" value="New Utilities"/></p> <p>Area: <input style="width: 100px;" type="text" value="4.04"/> acres <i>(In Watershed)</i></p> <p>No. of Post-Construction Points of Analysis: <input style="width: 80px;" type="text" value="1"/></p>	<p>Application Type: <input style="width: 90%;" type="text" value="Individual NPDES Application"/></p> <p>Municipality: <input style="width: 90%;" type="text" value="Burrell Township"/></p> <p> <input checked="" type="radio"/> New Project                <input type="radio"/> Minor / Major Amendment         </p> <p>Total Earth Disturbance: <input style="width: 100px;" type="text" value="3.03"/> acres <i>(In Watershed)</i></p> <p>at: <input style="width: 80px;" type="text" value="001"/></p>
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Point of Analysis (POA) No.	Drainage Area (DA) (acres)	Earth Disturbance in DA (acres)	Existing Impervious in DA (acres)	Proposed Impervious in DA (acres)	Receiving Waters	Ch. 93 Class	Structural SCM(s)
001	0.99	0.99	0.00	0.44	Stream 4	CWF	Yes
Undetained Areas	3.05	2.03	0.05	0.05	Stream 4	CWF	
<b>Totals:</b>	<b>4.04</b>	<b>3.03</b>	<b>0.05</b>	<b>0.49</b>			

PROJECT SITE MEETS SMALL SITE EXCEPTION - RATE WORKSHEET NOT REQUIRED

# Volume Management

Project: HCPP Pipeline - POA-1

Instructions    General    **Volume**    Rate    Quality

2-Year / 24-Hour Storm Event (NOAA Atlas 14):  inches    Alternative 2-Year / 24-Hour Storm Event  inches

Alternative Source:

**Pre-Construction Conditions:**    No. Rows:      Exempt from Meadow in Good Condition     Automatically Calculate CN, Ia, Runoff and Volume

Land Cover	Area (acres)	Soil Group	CN	Ia (in)	Q Runoff (in)	Runoff Volume (cf)
Pervious as Meadow	0.19	D	78	0.564	0.81	560
Forested (Good Condition)	0.01	C	70	0.857	0.47	14
Forested (Good Condition)	1.97	D	77	0.597	0.76	5,436
Impervious Areas: Streets and Roads - Gravel (Including ROW)	0.03	D	91	0.198	1.64	156
Impervious as Meadow	0.01	D	78	0.564	0.81	19
<b>TOTAL (ACRES):</b>		<b>2.21</b>			<b>TOTAL (CF):</b>	<b>6,191</b>

**Post-Construction Conditions:**    No. Rows:

Land Cover	Area (acres)	Soil Group	CN	Ia (in)	Q Runoff (in)	Runoff Volume (cf)
Meadow-Continuous Grass, Protected from Grazing and Generally Mowed for Hay	1.73	D	78	0.564	0.81	5,075
Impervious Areas: Paved Parking Lots, Roofs, Driveways, Etc. (Excluding ROW)	0.44	N/A	98	0.041	2.30	3,690

Impervious Areas: Streets and Roads - Gravel (Including ROW)	0.03	D	91	0.198	1.64	190
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**TOTAL (ACRES): 2.21**

**TOTAL (CF): 8,955**

**NET CHANGE IN VOLUME TO MANAGE (CF): 2,764**

**Non-Structural SCM Volume Credits:**

Tree Planting Credit

Other (attach calculations):

**Structural SCM Volume Credits:**

No. Structural SCMs: **1**

Start SCM Numbering at: **1**

POA No.	SCM No.	SCM Name	MRC?	Discharge	Incremental SCM DA (acres)	Volume Routed to SCM (CF)	Infiltration / Vegetated Area (SF)	Infiltration Rate (in/hr)	Infiltration Period (hrs)	Vegetated?	Media Depth (ft)	Storage Volume (CF)	Infiltration Credit (CF)	ET Credit (CF)
001	1	Rain Garden / Bioretention	-	Off-Site	0.99	5,234	1,667	6.69	72	Yes	1.5	2,827	5,234	0

**Totals: 5,234**

**INFILTRATION & ET CREDITS (CF): 5,234**

**NET CHANGE IN VOLUME TO MANAGE (CF): 2,764**

**TOTAL CREDITS (CF): 5,234**

**VOLUME REQUIREMENT SATISFIED**