

## Drager Road BMP Bioretention Basin

**WORKSHEET: POLLUTANT REDUCTION THROUGH BMP APPLICATIONS\***

\* FILL THIS WORKSHEET OUT FOR EACH BMP TYPE WITH DIFFERENT POLLUTANT REMOVAL EFFICIENCIES. SUM POLLUTANT REDUCTION ACHIEVED FOR ALL BMP TYPES ON FINAL SHEET.

**BMP TYPE:** Bioretention (A/B soils w/o underdrain)

BMP LOCATION (MS4 OUTFALL NUMBER)	22
AREA CONTROLLED BY THIS BMP TYPE (AC)	22.4

AREAS CONTROLLED BY THIS BMP TYPE:

	LAND COVER CLASSIFICATION	POLLUTANT RATES			AREA (Acres)	POLLUTANT LOAD		
		TN (lbs/ac/yr)	TP (lbs/ac/yr)	TSS (lbs/ac/yr)		TN (LBS)	TP (LBS)	TSS (LBS)
Lancaster County Load Rates	Impervious Developed	38.53	1.55	1480.43	2.14	82.30008	3.3108	3162.19848
	Pervious Developed	22.24	0.36	190.93	20.28	451.0272	7.3008	3872.0604
	Undeveloped	10	0.33	234.6	0.00	0	0	0
				TOTAL	22.42			
TOTAL LOAD TO THIS BMP TYPE						533.3273	10.6116	7034.25888
ADJUSTED POLLUTANT REMOVAL EFFICIENCIES FROM PADEP MS4 BMP EFFECTIVENESS TABLE (%)						80%	85%	90%
<b>PROPOSED POLLUTANT REDUCTION ACHIEVED BY THIS BMP TYPE (LBS)</b>						<b>426.7</b>	<b>9.02</b>	<b>6330.83</b>