

Table A-5-4: Total Phosphorus and TSS Reduction Benefits from Proposed BMPs

Site Name	MS4 owner of impervious draining to practice	Ownership of Land where BMP is located	BMP Type (Key*)	Permit # (if applicable)	Runoff Area, DA (acres)	Impervious Acres Managed (ac)	Channel Protection Volume Managed		WQ Results				Retrofit Description
							CF	Ac-ft	Annual TSS Yield Mitigated w/control (lbs)	% TSS reduction	Annual Total Phosphorus (TP) Yield Mitigated w/control (lbs)	% TP Reduction	
Tracy Rd. -Fort Ethan Allen-	Vtrans/Colchester	VTRANS	IB	6363-INDS	4.97	3.94	18513	0.43	370.00	100.00%	1.71	100.00%	Long Infiltration Trench/Bioretenion
Outfall 126: Fort Ethan Allen	Town Essex/UVM	Public (Town and UVM)	UIB	NP	20.42	9.84	25134	0.58	2530.00	100.00%	3.91	100.00%	Excessively eroded outfall. Constrained by UVM property. Proposed energy dissipater and large detention chamber.
Outfall 31- Morse Dr.	Town Essex	Private	UIB	NP	4.98	3.56	12937	0.30	7390.03	99.20%	3.92	98.20%	Replace pipe with perforated 24" and stone bed.
Outfall 199-Morse Dr.	Town Essex	Private	UIB	NP	8.18	5.18	5924	0.14	1013.16	98.17%	1.45	97.24%	Retrofit roundabout upslope from outfall with infiltration practice. Wetlands near
Route 15/Pearl St.	Village Essex	Private	UIB	2-0920	4.25	2.32	3877	0.09	1163.54	96.61%	1.29	94.48%	Redirect Route 15 Stormline to Underground Infiltration Chambers.
Forman Dr. Roundabout	Colchester	ROW	IB	NP	3.14	1.34	2047	0.05	309.60	97.21%	1.03	96.92%	Infiltration on edge of existing roundabout. Assess stability of slope as part of project feasibility.
Kimberly Drive (O3, O4)	Town Essex	Private	IB	1-0250	33.06	7.90	10019	0.23	1498.00	100.00%	5.20	100.00%	Infiltration basin at outfall.
David Dr. Outfall	Town Essex	ROW	UIB	1-0896, 1-0552, 1-1463	32.21	15.96	61028	1.40	27957.00	99.04%	15.34	98.58%	StormTech infiltration Chamber system at end of David Dr.
						<b>50.04</b>	<b>139479</b>	<b>3.20</b>					

Key: \* NP = No permit  
 BMP Type: DB: Detention Basin, USC: Underground/Covered Storage Chamber, UIB= Underground Infiltration Basin, IB= Vegetated Infiltration Basin  
 GSI = Smaller-scale GSI practice DW= Dry Wells \*WQ = Addresses WQ issue (i.e. excessive erosion but not flow targets)