

Indian Brook Flow Restoration Plan
 Tables A-3-3: MS4 Target Allocation and FRP Progress
 As of January 26th, 2015



Table 1: Model Scenario Results Summary

Model Scenario	BMPDSS Model Run Date	High Flow Target, Q 0.3 (± %)	Low Flow Target, Q 95 (± %)
TMDL Targets for Indian Brook	---	-1.3%	1.1%
Existing Condition Post2002 Scenario	1/12/2015	-0.54%	0.64%
Proposed BMP Scenario "Credit2"	1/14/2015	-2.75%	0.64%

Table 2: TMDL Flow Target Allocation

MS4 Impervious Owner	Total Area w/in Watershed (acres)	Impervious Cover (acres)	% of Watershed Impervious Cover	Target High Flow Reduction (%)	Target Low Flow Increase (%)
Town of Essex	3492.39	171.85	40.4%	-0.5%	0.44%
Village of Essex Junction	952.6	218.08	51.3%	-0.7%	0.56%
VTrans	141.91	35.56	8.4%	-0.1%	0.09%
Watershed Total	4586.90	425.49		-1.3%	1.1%

* The low flow target is not actionable under the TMDL, but is included in the summary because improving base flow in the watershed is still a water quality goal.

*The High Flow target is negative(-), indicating there needs to be a reduction in high flow from the baseline condition. The Low Flow target is positive (+), indicating there needs to be an increase in low flow from the baseline condition.

*Watershed delineation from file: "Indian_watershed121614"

Table 3: Progress toward flow targets by model scenario

MS4 Impervious Owner	Existing Condition "Post 2002"						Proposed BMP Scenario "Credit2"					
	Managed Impervious Acres by DET or INF ¹	Target High Flow Q 0.3 (± %) Reduction Left ²	Percent of High-flow Target addressed, %	Managed Impervious Acres INF	Target Low Flow Q 95 (± %) Increase Left ³	Percent of Low-flow Target addressed, %	Managed Impervious Acres by DET or INF ¹	Target High Flow Q 0.3 (± %) Reduction Left ²	Percent of High-flow Target addressed, %	Managed Impervious Acres INF	Target Low Flow Q 95 (± %) Increase Left ³	Percent of Low-flow Target addressed, %
Village of Essex Junction	32.9	-0.28%	47.1%	0.0	0.44%	0.0%	53.1	0.00%	200.6%	0.0	0.44%	0.0%
Town of Colchester	38.6	-0.38%	43.5%	2.0	0.00%	113.5%	81.9	0.00%	243.5%	22.4	0.00%	112.4%
VTrans	0.4	-0.11%	2.4%	0.0	0.092%	0.0%	3.7	-0.03%	68.0%	0.2	0.086%	7.0%
Watershed Total		-0.76%	41.5%		0.5%	58.2%		1.45%	211.5%		0.5%	58.2%
NOT MET						TARGET MET						

1- DET= Detention BMP providing CPv storage, INF= Infiltration BMP infiltrating the CPv volume

2-When the target was met, the" Q0.3 and Q95 LEFT to the managed" was changed to 0% in the table. There are still MS4's with a portion of their allocation left, even with the overall Watershed Target MET.

3-The low flow target is not actionable under the TMDL, but is included in the summary because improving base flow in the watershed is still a water quality goal.