

Vermont Agency of Transportation (VTrans)
Transportation Separate Storm Sewer System (TS4)
Stormwater Management Program (SWMP)
Annual Report Workbook
2022

TAB 4.0: Discharge Requirements Annual Reporting

Waterbody Name	Pollutant	TMDL (Yes/No)	Vtrans/TS4 Allocation (Yes/No)	Measure No.	Measure Description (General)	Annual Report Measure Detail	Progress Towards Meeting Measure (2022)
4.1 Measures and Progress for Discharges to Impaired Waters With an Approved TMDL With Wasteload Allocation							
LAKE MEMPHRAMAGOG (Newport)	PHOSPHORUS	Yes	Yes	18	PCP development and implementation beginning in 2022; VTrans will implement MCM #1 and #6 (SWMP Parts 6.A and 6.F)	Progress towards PCP development and implementation beginning in 2022	District road crews inspect the roadways throughout the year. Drainage infrastructure was inspected in this watershed.
4.2 Measures and Progress for Discharges to Impaired Waters With an Approved TMDL Without Wasteload Allocation							
LAKE CARM (Franklin)	PHOSPHORUS	Yes	No	16	No VTrans allocation, VTrans will implement MCM #1 and #6 (SWMP Parts 6.A and 6.F). Inspect hydrologically connected road segments if any, stabilize visible erosion, report progress annually. Primary impairment source is agricultural runoff.	Inspect hydrologically connected road segments, stabilize visible erosion	District road crews inspect the roadways throughout the year. Drainage infrastructure was inspected in this watershed. VTrans is currently working with DEC and the Town of Franklin to implement a project as part of the Lake Carmi Crisis Response Plan.
4.3 Measures and Progress for Discharges to Impaired Waters Without an Approved TMDL							
MUDDY BROOK	CHLORIDE	No	No	2	MCM #1 and #6 (SWMP Parts 6.A and 6.F); VAOT Snow and Ice Control Plan (SIC Plan); annual reporting on chloride usage within impaired watersheds. VTrans owns and controls approximately 9% of total impervious cover in Muddy Brook watershed and 14% of total impervious cover in Sunnyside Brook watershed.	Chloride usage within impaired watershed	Material usage: Salt (ton): 222.21, Sand (ton): 0.03, Mix (ton): 0.00, Prewet (gal): 1515, Anti Ice (gal): 6
SUNNYSIDE BROOK	CHLORIDE	No	No	2		Chloride usage within impaired watershed	Material usage: Salt (ton): 127.23, Sand (ton): 0, Mix (ton): 0, Prewet (gal): 562, Anti Ice (gal): 15
JEWETT BROOK	NUTRIENTS, SEDIMENT, E. COLI	No	No	14	VTrans will implement MCM #1, #3, and #6 (SWMP Parts 6.A, 6.C, and 6.F). Inspect hydrologically connected road segments, stabilize visible erosion, report progress annually. Primary impairment source is agricultural runoff.	Inspect hydrologically connected road segments, stabilize visible erosion	District road crews inspect the roadways throughout the year.
RUGG BROOK	NUTRIENTS, SEDIMENT, E. COLI	No	No	14		Inspect hydrologically connected road segments, stabilize visible erosion	Median retrofit inspected. District road crews inspect the roadways throughout the year.
STEVENS BROOK	NUTRIENTS, SEDIMENT, E. COLI	No	No	14		Inspect hydrologically connected road segments, stabilize visible erosion	St. Albans Park and Ride gravel wetland inspected. 6765-9010 inspected. St. Albans garage stormwater plan training and inspection was performed.

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Waterbody Name	Pollutant	TMDL (Yes/No)	Vtrans/TS4 Allocation (Yes/No)	Measure No.	Measure Description (General)	Annual Report Measure Detail	Progress Towards Meeting Measure (2022)
SHELBURNE POND (Shelburne)	PHOSPHORUS	No	No	16	No VTrans allocation, VTrans will implement MCM #1 and #6 (SWMP Parts 6.A and 6.F). Inspect hydrologically connected road segments if any, stabilize visible erosion, report progress annually. Primary impairment source is agricultural runoff.	Inspect hydrologically connected road segments, stabilize visible erosion	District road crews inspect the roadways throughout the year. Drainage infrastructure was inspected in this watershed.
DEER BROOK	SEDIMENT	No		20	Consider priority inclusion in PCP development and implementation (SWMP Part 9.2). VTrans owns or controls approximately 29% of total impervious cover in the Deer Brook watershed. Participate in planning/design activities, report progress annually.	Participate in planning/design activities; consider priority inclusion in PCP development and implementation	District road crews inspect the roadways throughout the year. Continued working with Friends of Northern Lake Champlain and Stone Environmental in advancing the design of a treatment system in this watershed. Recently the Friends of Northern Lake Champlain group was awarded a grant from ANR which was supported by VTrans.
SOUTH MOUNTAIN BRANCH (TRIB # 3)	SEDIMENT	No		22	Part B - plan in place to mitigate - no specific actions required. VTrans will implement MCM #1, #3, and #6 (SWMP Parts 6.A, 6.C, and 6.F). Inspect hydrologically connected road segments, stabilize visible erosion, report progress annually. Primary impairment cause is ski area development.	Inspect hydrologically connected road segments, stabilize visible erosion	District road crews inspect the roadways throughout the year.
BIG SPRUCE BROOK	SEDIMENT, IRON			22		Inspect hydrologically connected road segments, stabilize visible erosion	District road crews inspect the roadways throughout the year.

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TAB 6.0: Minimum Control Measure (MCM) Annual Reporting

TS4 Annual Reporting Requirements		Enter number	Description of how requirement was met (include information from prompts)	Anticipated Schedule	Attachments
MCM 6.A (#1): Public Education and Outreach on Stormwater Impacts					
A.1	Maintain website with locally relevant stormwater information and promote its existence and use.		VTrans maintains a website at: https://vtrans.vermont.gov/operations/technical-services/environmental/stormwater	Ongoing	https://vtrans.vermont.gov/operations/technical-services/environmental/stormwater
A.2	Establish one (1) additional educational kiosk or demonstration project at a public facility within the permit term.		VTrans is continuing to maintain a stormwater management demonstration site and kiosk at the St. Albans Park & Ride and the Williston I-89 Northbound Information Center. In 2022, VTrans created a demonstration kiosk at the Randolph Park and Ride which will be installed in spring of 2023. As an indication of potential exposure of visitors to educational opportunities at the Williston site, see visitor counts maintained by the Department of Buildings and General Services (BGS) at this website: http://informationcenter.vermont.gov/visitor_statistics .	Ongoing	http://informationcenter.vermont.gov/visitor_statistics
A.3	Participate in the Chittenden County Regional Stormwater Education Program (RSEP).		VTrans is continuing to participate in the RSEP; see Appendix A of the annual report.	Ongoing	See Appendix A in the annual report
MCM 6.B (#2): Public Involvement and Participation					
B.1	Participate in the Chittenden County Regional Stormwater Public Involvement and Participation Program ("Stream Team").		VTrans is continuing to participate in the Stream Team; see Appendix B of the annual report.	Ongoing	See Appendix B in the annual report
MCM 6.C (#3): Illicit Discharge Detection and Elimination					
C.1	Maintain and expand MS4 mapping to include statewide storm sewer system. Verify outfall locations with field surveys outside the MS4, with a goal of verifying 3000 lane miles within the permit term.	4,143 lane miles of 3000	VTrans is continuing to maintain the current MS4 mapping that was prepared under the 2003 MS4 permit and then updated to include additional MS4 areas for the 2012 MS4 permit. As resources are available, VTrans will expand this mapping to capture the statewide system.	Ongoing	
C.2	Draft and implement a policy and enforcement procedures that prohibit non-stormwater discharges.		In 2021, VTrans finalized and signed a new policy prohibiting illicit (non-stormwater) discharges into the state highway rights-of-way, into its stormwater collection, conveyance and treatment systems, and onto its other non-highway land holdings. The new policy, "Prohibition on Illicit (non-stormwater) discharges into VTrans TS4", can be found at https://vermontgov.sharepoint.com/sites/VTRANS/VTransIntranetHome/VTrans%20Policy%20Manual/Non-stormwater%20Prohibition%20into%20TS4.pdf	complete	
C.3	Develop a plan to conduct additional testing of outfalls for illicit discharges outside MS4 areas within the TS4. Develop a reporting and enforcement SOP to address non-stormwater discharges from outside the ROW. Indicate # of:		Vtrans has developed and implemented a reporting and enforcement SOP to address non-stormwater discharges from outside the ROW. Additionally, the agency has developed a draft plan to conduct additional testing of outfalls for illicit discharges outside the MS4 areas.	Ongoing	See attachment C in the annual report
	Illicit discharges encountered or reported:	2	Two potential illicit discharges locations were encountered or reported in 2022. The locations were Georgia, and Bakersfield		

	Monitoring activities conducted:	2	The Georgia site was reported to the ANR EEO and was determined to be a footing drain/ sump pump with no concern. The Bakersfield site was reported to the ANR EEO and there was no response. Follow up on the Bakersfield site is occurring.		
	Corrective actions taken or referrals to ANR:	0			
C.4	Develop an informational flyer for Title 19 Section 1111 permit holders to inform them of hazards associated with illegal discharges and improper disposal of waste. Indicate # of:		VTrans investigated the development an informational flyer for district staff and permit specialist to hand out to property owners who have potential illicit connections. It was clear that training district staff was the most valuable improvement. A guidance document is used to direct district staff on how to handle illicit connections when they are found. Therefore, VTrans put resources toward training and the documented process rather than the informational flyer.	Ongoing	
	Title 19 Section 1111 permits issued:	551			
C.5	Monitor for categories of non-stormwater discharges listed in the SWMP (MCM 6.C.5), investigate significance of each, and take appropriate enforcement action as warranted. Indicate # of:		VTrans is continuing to monitor for non-stormwater discharges to investigate them and take appropriate enforcement actions as necessary.	Ongoing	
	Non-stormwater discharges discovered:	1	One potential non-stormwater location was encountered in 2022. The location was in Barre.		
	Corrective actions taken:	1	The Barre site was tested for chlorine and was determined to be a water main break. The problem was reported to Barre Town		
MCM 6.D (#4): Construction Site Stormwater Runoff Control					
D.1	Implement procedures to assure that construction activities undertaken are properly permitted and in compliance with permits. Indicate # :		VTrans is continuing to comply with the terms of their stormwater construction permits.	Ongoing	
	Projects with GP 3-9020 and/or INDC coverage:	27	9 projects applied and received stormwater construct permit coverage in 2022 and 18 projects currently in construction have stormwater construction permit coverage.		
D.2	Review existing policies for effectiveness in managing construction-related EPSC and controlling wastes, and make changes as needed.		VTrans continues to review existing policies and their effectiveness. This year, EPSC contractor checklist was updated. Off Site Activity forms were updated to account for Urban Soils, and allow stockpiling of erodible material at an exempt site to be considered an exemption. 653 EPSC, 651 Turf Establishment, and 755 EPSC and Landscaping Materials sections of the Spec Book were all updated.	Ongoing	https://vtrans.vermont.gov/sites/aot/files/highway/documents/environmental/VTrans%20EPSC%20Protocol%202019.pdf
D.3	Review existing policies for consistency with ANR general permits for stormwater runoff from large and small construction sites and construction EPSC guidelines for low-impact development.		VTrans continues to review existing policies and their effectiveness. VTrans has completed an evaluation of the process that a project with stormwater considerations goes through within VTrans, based on this the agency made some changes to the process to improve it's effectiveness and efficiency. Additionally, there have been spec book updates, and the EPSC contractor checklist was updated.	Ongoing	https://vtrans.vermont.gov/sites/aot/files/highway/documents/environmental/VTrans%20EPSC%20Protocol%202019.pdf
D.4	Implement a plan that addresses stormwater runoff from construction activities that are not subject to state or federal EPSC requirements. Indicate # of:		VTrans is continuing to implement the "VTrans EPSC Protocol" (revised July 2019), which contains guidelines for: (1) creating and implementing EPSC Plans that meet the requirements of GP 3-9020, and (2) projects disturbing less than one acre with any potential to impact resources.	Ongoing	
	Number of projects following the "VTrans EPSC Protocol":	37	All projects follow the EPSC protocol. 37 projects, this does not include paving, line striping, rumble strip or sign projects that all follow the ANR Low Risk Site Handbook if needed.		

D.5	Conduct environmental compliance site visits to projects that are under construction to review implementation of the EPSC Plan and compliance with environmental permit conditions. Indicate # of:		VTrans is continuing to conduct environmental compliance site visits to projects that are under construction to assess installation of EPSC measures, protection of natural resources, and compliance with state and federal regulations.		
	Number of environmental compliance sites visits:	280			
D.6	Conduct and attend construction-phase stormwater management / EPSC training.		See Tab 6.1 for a list of trainings that VTrans has conducted and/or attended.	Ongoing	
MCM 6.E (#5): Post Construction Stormwater Management for New Development and Redevelopment					
E.1.a	Update the "VTrans Project Post-Construction (Operational) Stormwater Protocol" in the first two years of the permit term.		Vtrans updated the stormwater protocol, after completing a LEAN event on the stormwater process. The protocol will be finalized and implemented in 2022.	2022	
E.1.b	Further develop and implement VTrans' Stormwater Management Program using the results of the "Stormwater Program Evaluation" (2015 - 2017).		VTrans is utilizing the results of the evaluation by completing action number 7, Institutionalize Maintenance and Good Housekeeping Practices, as identified in the stormwater program evaluation.	Ongoing	
E.2	Update and implement the "VTrans Gap SOP" to include areas statewide that are within the TS4.			Ongoing	
E.3			Six projects were identified to follow the gap procedure, Royalton BF 0147(29), Worcester BF 0241(56), Worcester BF 0241(57), Worcester BF 0241(59), Elmore STP CULV(64), Elmore BF 0241(55)		
E.6	Conduct and attend post-construction (operational) stormwater management training.		See Tab 6.1 for a list of trainings that VTrans has conducted and/or attended.	Ongoing	
MCM 6.F (#6): Pollution Prevention and Good Housekeeping for Municipal Operations					
F.2	If phosphorus fertilizer is used for turf management, perform an annual soil test and provide a copy of test results to ANR.		If relevant, VTrans has included annual soil test results in Appendix C of the annual report.	Annually, when relevant	See Appendix C in the annual report.
F.3	For facilities that are not currently covered, develop SWPPPs for state garages located outside of the MS4 on a schedule of four facilities a year.	23 of the 20 SWPPPs required in the permit term have been developed	In 2021, VTrans did not prepared any additional SWPPPs for facilities. The target for this permit term has been reached.	Ongoing	
F.3.a	Continue to conduct trainings and inspections at facilities currently covered		See Tab 6.3.a for a list of trainings and inspections conducted.		
	Maintain and update facility documents annually		See Tab 6.3.a for a list of documents maintained and updated.		
	Summarize corrective actions that have taken place at facilities:		See Tab 6.3.a for a summary of corrective actions.		
F.3.b	Implement good housekeeping measures and consider development of additional measures. Indicate:		VTrans is continuing to implement good housekeeping measures.	Ongoing	
	Total volumes of salt and sand usage for winter road maintenance:		Sept. 1, 2021 through June 1, 2022 VTrans usage: Salt: 125,400.65 tons, Sand: 3,128.65 cubic yards, Salt Brine: 1,431,043 gallons, Liquid De-Icer: 63,654 gallons		
	Total number of lanes miles street sweeping was conducted on:	2502.2 lane miles	At a minimum Vtrans will conduct street sweeping on 2,000 lane miles per year.		

	Percentage of Vtrans roads storm drain inspections were conducted on:	10.9%	4128 culverts were inspected in 2022														
	Number of slope stabilization and erosion repair projects completed:	3	The three projects were slope stabilization projects in Middletown Springs, Newbury, and Stowe														
	Additional measures established:																
F.4	Conduct annual monitoring and spill response, and take corrective actions under the SPCC Plans. Indicate:		<p>VTrans Hazmat Unit Staff are continuing to implement SPCC Plans, involving monitoring, spill response, and implementation of corrective actions. Monitoring and corrective actions taken include:</p> <table border="0"> <thead> <tr> <th></th> <th>Number of Spills</th> <th>Monitoring Events</th> <th>Corrective Actions*</th> </tr> </thead> <tbody> <tr> <td>Roadway:</td> <td>12</td> <td>0</td> <td>8</td> </tr> <tr> <td>Facility:</td> <td>1</td> <td>0</td> <td>1</td> </tr> </tbody> </table> <p>*Corrective Actions include removal and remediation of the spill</p>		Number of Spills	Monitoring Events	Corrective Actions*	Roadway:	12	0	8	Facility:	1	0	1	Ongoing	
	Number of Spills	Monitoring Events	Corrective Actions*														
Roadway:	12	0	8														
Facility:	1	0	1														
	Trainings, with list of trainees and topics:		See Tab 6.1 for a list of trainings that VTrans has conducted and/or attended.														

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TAB 6.1: Trainings Summary

Section 6.0 Minimum Control Measures: Construction and Operational Stormwater		
Class Title	Total Attendance	Target Audience
Maintenance Training Series: Roadway Drainage	3	VTrans staff
Math Basics for Maintenance Technicians	1	VTrans staff
PCC Pavement Preservation Series: Retrofitted Edge Drains	1	VTrans staff
Construction Stormwater Field Guide Training	1	VTrans staff
Removal and Replacement of Bridge Coatings	1	VTrans staff
Environmental Triggers: Water Resources	1	VTrans staff
Rivers & Roads Tier I	43	VTrans staff
Rivers & Roads Tier II	34	VTrans staff
Rivers & Roads Tier III - Floodplain Restoration	11	VTrans staff
Rivers & Roads Tier III - Channel Stabilization	14	VTrans staff
Rivers & Roads Tier III - Sediment & Large Wood Removal	17	VTrans staff
Rivers & Roads Tier III - Culvert Replacement	33	VTrans staff
Highways & Habitats Tier I	18	VTrans staff
Highways & Habitats Tier II	14	VTrans staff
Regional Spring Meetings	45	VTrans staff

Section 6.0 Minimum Control Measures: Hazardous Materials, SPCC, Spill Prevention and Response		
Class Title	Total Attendance	Target Audience
Dealing With Hazardous Spills	2	VTrans staff
DOT HAZMAT General Awareness	2	VTrans staff
DOT HAZMAT Safety Training	2	VTrans staff
Hazard Communication in Construction Environments	58	VTrans staff
HAZWOPER for Cleanup Sites (Part 4 of 4)	2	VTrans staff
HAZWOPER for Cleanup Sites (Part 1 of 4)	2	VTrans staff
HAZWOPER for Cleanup Sites (Part 2 of 4)	2	VTrans staff
HAZWOPER for Cleanup Sites (Part 3 of 4)	2	VTrans staff
HAZWOPER Safety Orientation	2	VTrans staff
HazCom: Emergency Spill Response and Reporting	362	Hwy Maintenance districts and central garage staff; state-wide
Spill Prevention, Control, and Countermeasures	87	Hwy Maintenance district garage staff, State Airport FBOs,

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TAB 6.3.a: Facilities Updates

Section 6.3.a Minimum Control Measures: Trainings and Inspections Conducted at Facilities		
Class Title	Total Attendance	Target Audience
E. Dorset Garage	2	Garage Staff
Wilmington	2	Garage Staff
Bennington	2	Garage Staff
Ludlow	1	Garage Staff
Rutland CG	1	Garage Staff
Mendon	1	Garage Staff
Clarendon	1	Garage Staff
Castleton	1	Garage Staff
Sudbury	1	Garage Staff
Colchester Fort Ethan Allen	2	Garage Staff
Colchester Chimney Corners	1	Garage Staff
Middlebury	4	Garage Staff
New Haven	2	Garage Staff
Middlesex	2	Garage Staff
Waitsfield	2	Garage Staff
St. Albans Town	2	Garage Staff
Eden	1	Garage Staff
Enosburg	1	Garage Staff
Montgomery	1	Garage Staff
Cambridge	1	Garage Staff
Central Garage	1	Garage Staff
North Montpelier	2	Garage Staff
Irasburg	2	Garage Staff

Section 6.3.a Minimum Control Measures: Facility Documents Maintained and Updated		
Document Name		
E. Dorset Garage		
Wilmington		
Bennington		
Ludlow		
Rutland CG		
Mendon		
Clarendon		
Castleton		
Sudbury		
Colchester Fort Ethan Allen		
Colchester Chimney Corners		

Middlebury		
New Haven		
Middlesex		
Waitsfield		
St. Albans Town		
Eden		
Enosburg		
Montgomery		
Cambridge		
Central Garage		
North Montpelier		
Irasburg		

Section 6.3.a Minimum Control Measures: Corrective Actions Identified at Facilities

Facility		Corrective action identified
St. Albans Town		Add stone to keep a discharge point stable within one year of inspection

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TAB 7.0: Industrial Activities Summary

Facility Name	Permit Number	Sector	Inspection/Training Date	Attendance	Corrective Action
W.H. Morse Air	4579-9003.R	S	10/3/2022	2	
E.F. Knapp Air	4582-9003.R	S	9/7/2022	1	
Rutland Air	3769-9003.R	S	10/3/2022	1	
Newport Air	3836-9003.R	S	11/25/2022	1	
Franklin Cnty Air	3065-9003.R	S	10/5/2022	1	Coordination with Aviation staff about moving an abandoned plan within one year of inspection
Caledonia Air	3896-9003.R	S	5/24/2022	1	
Middlebury Air	4581-9003.R	S	10/5/2022	2	
Morrisville - Stowe Air	4272-9003.R	S	9/7/2022	2	
Hartness Air	4580-9003.R	S	10/5/2022	2	
J.H. Boylan Air	4574-9003.R	S			NO EXPOSURE
E. Dorset Pit	4576-9003.R	J	10/13/2022	2	
Hinesburg Pit	4577-9003.R	J	9/8/2022	1	
Calais Pit	6054-9003.R	J	7/16/2022	1	

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TAB 8.0: Operational Stormwater Management System Annual Inspections Summary

Permit Name	Permit Number	Region	Inspection Date	Inspector Name	Inspector Title	Permit Name Changed	New Permit Name	Ownership Changed	Impervious Changed	Permit Status	Mowing Needed	ReVegetation Needed	Catch Basin Cleaning	Illicit Discharge	Stormwater ReRouting	Erosion	Sediment	Maintenance Description	Compliant	Comments	Year	Regional Stormwater Tech
Arling-Swanston Missisquoi Bay Bridge	6070-9010.R	District 8 Northwest	9/12/2022 15:17	Tyler Hanson	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Northwestern VT Tyler Hanson
AOT District 4 White River Junction Office Bldg.	7839-INDS	District 4 Southeast	8/31/2022 18:00	Dexter Puls	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Southern VT Dexter Puls
AOT Sharon I-89 South Salt Shed	3141-9015.1	District 4 Southeast	8/31/2022 16:34	Dexter Puls	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Southern VT Dexter Puls
Barre Town HES 026-1(38) (roundabout)	4969-9010	District 7 Northeast	5/18/2022 18:25	Alysha Kane	Stormwater Tech	No	No Name Change	No	No	Constructed	Yes	No	Yes	No	No	Yes	No	Needs sweeping and then catch basin cleaning, mow dry swale before next annual inspection	Yes		2022	Northeastern and Central VT Alysha Kane
Bennington D1 Garage	3361-9010	District 1 Southwest	4/29/2022 18:30	Jeremy Bruno	District Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Southern VT Dexter Puls
Bennington-Hoosick DPI 0146(1) C/3 8C/4	3156-9010.R	District 1 Southwest	4/26/2022 18:00	Jeremy Bruno	District Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	Yes	No	Erosion to be stabilized before next annual inspection	Yes		2022	Southern VT Dexter Puls
Berlin E.F. Knapp runway taxiway apron/etc	4582-9010	N Airports	8/17/2022 13:25	Tyler Hanson	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Northwestern VT Tyler Hanson
Berlin STP SGN(40)	7066-9010	District 7 Northeast	5/18/2022 15:55	Alysha Kane	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Northeastern and Central VT Alysha Kane
Brandon D3 Maint Garage	3768-9010.R	District 3 Southwest	5/9/2022 12:30	James Caulin and Brian Sanderson	District Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Southern VT Dexter Puls
Brattleboro IM 091-1(65)	7054-INDS	District 2 Southeast	9/2/2022 17:23	Dexter Puls	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Southern VT Dexter Puls
Bristol STP BRP 021-1(15)	5221-9010	District 5 Northwest	8/29/2022 14:11	Tyler Hanson	Stormwater Tech	No	No Name Change	No	No	Constructed	Yes	No	No	No	No	No	No	Mowing needed before next annual inspection	Yes		2022	Northwestern VT Tyler Hanson
Burke RS 0269(3) Bridge Replacemen	3906-9010.R	District 7 Northeast	5/18/2022 12:30	Alysha Kane	Stormwater Tech	No	No Name Change	No	No	Constructed	Yes	No	No	No	No	No	No	Mowing needed before next annual inspection	Yes		2022	Northeast Region Alysha Kane
Cabot-Danville FECC F028-3(26) C1	4022-9010	District 7 Northeast	5/18/2022 16:45	Alysha Kane	Stormwater Tech	No	No Name Change	No	No	Constructed	Yes	No	No	No	No	No	No	Mowing needed before next annual inspection	Yes		2022	Northeastern and Central VT Alysha Kane
Cambridge BRP 027-1(4) & STP 030-2(27)	4765-9010	District 8 Northwest	7/6/2022 11:02	Tyler Hanson	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No	Mowing needed before next annual inspection	Yes		2022	Northwestern VT Tyler Hanson
Cambridge BRP 030-2(12)	3885-9010.R1	District 8 Northwest	7/6/2022 11:02	Tyler Hanson	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No	Mowing needed before next annual inspection	Yes		2022	Northwestern VT Tyler Hanson
Charlotte F EGC 019-4(20)	3438-9010	District 5 Northwest	8/29/2022 14:09	Tyler Hanson	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Northwestern VT Tyler Hanson
Chester BRP F016-1(3)	3905-9010.R	District 2 Southeast	9/2/2022 13:19	Dexter Puls	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Southern VT Dexter Puls
Colchester CMG PARK(47)	4146-9010	District 5 Northwest	7/13/2022 22:50	Tyler Hanson	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Northwest Region Tyler Hanson
Colchester 05 "Fort" Site Redevelopment	6363-INDS.R	District 5 Northwest	7/6/2022 22:49	Tyler Hanson	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Northwest Region Tyler Hanson
Colchester HES 026(128)	7427-INDS	District 8 Northwest	6/29/2022 10:58	Tyler Hanson	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Northwestern VT Tyler Hanson
Colchester Park & Ride and Maintenance Facility	3012-9010.R	District 5 Northwest	7/6/2022 11:04	Tyler Hanson	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Northwest Region Tyler Hanson
Colchester STP 5600(9) S	5132-9010	District 5 Northwest	9/12/2022 17:25	Tyler Hanson	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Northwestern VT Tyler Hanson
Cornwall BRS017(26)	5606-9010	District 3 Southwest	8/29/2022 14:11	Tyler Hanson	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Northwestern VT Tyler Hanson
Coventry - Newport Air	3836-INDS.A1	N Airports	9/1/2022 17:30	Alysha Kane	Stormwater Tech	No	No Name Change	No	No	Partially Constr	No	No	No	No	No	No	No		No		2022	Northeast Region Alysha Kane
Danville F 028-3(17) US2 Reconstruction/ Reloc	3743-9010.R	District 7 Northeast	5/18/2022 15:45	Alysha Kane	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Northeast Region Alysha Kane
Danville FECC 028-3(32) (downtown revitalization)	4144-9010	District 7 Northeast	5/18/2022 15:15	Alysha Kane	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	Yes	No	No	No	No	Clean out forebay planned 5/23/22	Yes		2022	Northeastern and Central VT Alysha Kane
Derby Salt and Storage Sheds - Derby Garage	3076-9010	District 3 Northeast	7/11/2022 17:36	Alysha Kane	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Northwest Region Alysha Kane
Dummerston Garage Stormwater Improvements	7758-9015	District 2 Southeast	9/2/2022 16:19	Dexter Puls	Stormwater Tech	No	No Name Change	No	No	Constructed	No	Yes	No	No	No	No	No	Minor grass growth needed in grass channel before next annual inspection	Yes		2022	Southern VT Dexter Puls
East Montpelier BRP 037-1(7) (VT14 Br Intersect)	4251-9010	District 7 Northeast	5/18/2022 16:42	Alysha Kane	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Northeastern and Central VT Alysha Kane
Essex Town STP 5400(5)	6300-INDS.R	District 5 Northwest	7/13/2022 22:46	Tyler Hanson	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Northwest Region Tyler Hanson
Ferrisburgh F 019-4(16) US7	3764-9010.R1	District 5 Northwest	8/29/2022 14:24	Tyler Hanson	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Northwestern VT Tyler Hanson
Ferrisburgh Maint. Facility	3399-9010.R1	District 8 Northwest	8/29/2022 14:10	Tyler Hanson	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Northwestern VT Tyler Hanson
Ferrisburgh Park & Ride	3127-9010.R	District 8 Northwest	8/29/2022 14:25	Tyler Hanson	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Northwestern VT Tyler Hanson
Ferrisburgh Park-and-Ride CMG (15)SC (Plat)	3127-9015	District 8 Northwest	8/29/2022 4:00	Tyler Hanson	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Northwestern VT Tyler Hanson
Groton F 026-11(27) & BRP 026-11(27)S	3904-9010.R	District 7 Northeast	5/18/2022 17:47	Alysha Kane	Stormwater Tech	No	No Name Change	No	No	Constructed	No	Yes	Yes	No	No	Yes	No	sediment in swale by store. Sediment remove and revegetation needed as well as catch basin cleaning through	Yes		2022	Northeastern and Central VT Alysha Kane
Guilford Weigh Station IM 091-1(25)	6989-9015	District 2 Southeast	9/2/2022 17:43	Dexter Puls	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Southern VT Dexter Puls
Hartland BRS 0113 (21)	3903-9010.R	District 4 Southeast	8/31/2022 18:21	Dexter Puls	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Southern VT Dexter Puls
Hartness State Airport Proposed Hangars	4580-9015.A	S Airports	9/6/2022 17:15	Dexter Puls	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Southern VT Dexter Puls
Higgate DR Highway Maintenance Facility	4302-9010.R	District 8 Northwest	10/9/2022 16:25	Tyler Hanson	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Northwest Region Tyler Hanson
Hinesburg HES 021-1(19)	7720-INDS.A	District 5 Northwest	8/29/2022 4:00	Tyler Hanson	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No	<Null>	Yes		2022	Northwestern VT Tyler Hanson
Hyde Park HES 030-2(23) roundabout	6263-9010	District 8 Northwest	4/27/2022 14:13	Alysha Kane	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Northeastern and Central VT Alysha Kane
Jericho STP HES 030-1(21)	6947-INDS.A	District 5 Northwest	7/6/2022 22:48	Tyler Hanson	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No	<Null>	Yes		2022	Northwest Region Tyler Hanson
Johnson STP 030-2(21)2(25) Streetscape	6531-9015	District 8 Northwest	7/6/2022 11:09	Tyler Hanson	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Northwest Region Tyler Hanson
Lyndon - Caledonia Cnty Airport	3896-9010	N Airports	5/24/2022 14:45	Alysha Kane	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Northeast Region Alysha Kane
Lyndon - Caledonia Cnty Airport (hangars/taxiway)	4199-9010	N Airports	8/18/2022 4:00	Alysha Kane	Stormwater Tech	No	No Name Change	No	No	Partially Constr	No	No	No	No	No	No	No		Yes		2022	Northeast Region Alysha Kane
MALS Installation at the Rutland State Airport	3473-9010	S Airports	6/8/2022 15:00	Dexter Puls	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No	Currently being looked at for amendment	No		2022	Southern VT Dexter Puls
Middlebury Airport Hangars	4543-9015	S Airports	7/13/2022 14:00	Dexter Puls	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Southern VT Dexter Puls
Middlebury State Airport Safety Area Buyouts	4581-INDS	S Airports	7/13/2022 14:00	Dexter Puls	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Southern VT Dexter Puls
Middlesex 089-2(41) (US2 over I-89)	7145-9010	District 6 Central Region	4/27/2022 4:00	Alysha Kane	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	Yes	No	Repair erosion at outlet of slope pipe - interstate side. Work to be completed in 2022	Yes		2022	Northeastern and Central VT Alysha Kane
Middlesex D6 garage expansion	4578-9010	District 6 Central Region	4/27/2022 12:22	Alysha Kane	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	Yes	No		Yes		2022	Northeastern and Central VT Alysha Kane
Milton IM 089-3(66)	7016-INDS.A	District 8 Northwest	6/29/2022 10:58	Tyler Hanson	Stormwater Tech	No	No Name Change	No	No	Constructed	Yes	No	No	No	No	No	No	Cut sumac. To be completed before next annual inspection	Yes		2022	Northwest Region Tyler Hanson
Milton STP 5800 (2)	6019-9010	District 5 Northwest	9/12/2022 16:45	Tyler Hanson	Stormwater Tech	No	No Name Change	No	No	Constructed	Yes	No	No	No	No	No	No	Sumac needs to be cut in grass swales before next annual inspection	Yes		2022	Northwestern VT Tyler Hanson
Moretown-Middlesex BRS0284(14)	4278-9010	District 5 Northwest	4/27/2022 15:36	Alysha Kane	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Northeastern and Central VT Alysha Kane
Morrisville - Morrisville/Stowe Airport	4272-9015.1A3	N Airports	9/7/2022 17:15	Tyler Hanson	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Northwestern VT Tyler Hanson
Newfane STP-HES 015-1(15) Northern	3767-9010.R	District 2 Southeast	9/2/2022 16:02	Dexter Puls	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Southern VT Dexter Puls
Pittsford-Brandon Seg 5	3628-9010	District 3 Southwest	5/9/2022 12:15	James Caulin and Brian Sanderson	District Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No		Yes		2022	Southern VT Dexter Puls
Putney CMG PARK(26)	6923-9015.A	District 2 Southeast	9/2/2022 15:01	Dexter Puls	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	Yes	No		Yes		2022	Southern VT Dexter Puls
Randolph CMG Park (21) SC Park & Ride	3850-9010	District 4 Southeast	8/31/2022 14:01	Dexter Puls	Stormwater Tech	No	No Name Change	No	No	Constructed	No	No	No	No	No	No	No	Trash pickup needed. To be completed in 2022	Yes		2022	Southern VT Dexter Puls
Rutland State Airport Taxiway E	3																					

TAB 9.1: Flow Restoration Plan (FRP) Implementation Summary

TS4_FRP_Unique DEC_ID	Project Name	Land Owner	Responsible Party	Applicable FRP	Latitude	Longitude	Existing SW permit number (if applicable)	BMP Tracking Specifications						Design, Construction and Maintenance					
								BMP Type (See BMP definitions Tab)	Impervious area treated (acres)	Pervious area treated (acres)	Storage volume (cuft)	Infiltration rate (in/hr)	Is this an upgrade to an exiting BMP?	If upgrade, enter previous storage volume (cuft)	Cost Estimate (if available)	BMP status	Date of Planned Construction	Date constructed	Date of last inspection
Allen_42	Rest Area Pond Retrofit	VTrans / VT BGS	Vtrans TS4	Allen Brook	44.437353	-73.079423	1-0963	Extended Dry Detention pond	4.42	22.38	29,172	No	NA	\$158,000	Complete	2018-2019	2020		
Allen_60	Town Office	VTrans	Vtrans TS4	Allen Brook	44.4318979	-73.07751906	NP	Median Filter	0.37	1.86	2,660	No	NA	\$32,000	Complete	2018-2019	2020		
Allen_70	WCA_1	VTrans	Vtrans TS4	Allen Brook	44.43388963	-73.07019961	NP	Median Filter	0.68	3.56	7,643	No	NA	\$92,000	Complete	2018-2019	2020		
Allen_61	WCA_2	VTrans	Vtrans TS4	Allen Brook	44.4356164	-73.07990611	NP	Median Filter	0.44	2.08	1,852	No	NA	\$25,000	Complete	2018-2019	2020		
Allen_72	WCA_3	VTrans	Vtrans TS4	Allen Brook	44.43591911	-73.08167008	NP	Median Filter	0.55	1.76	1,318	No	NA	\$25,000	Complete	2018-2019	2020		
Allen_73	WCA_4	VTrans	Vtrans TS4	Allen Brook	44.43624166	-73.08392315	NP	Median Filter	0.71	2.54	4,404	No	NA	\$53,000	Complete	2018-2019	2020		
Allen_67	VTrans Median A	VTrans	Vtrans TS4	Allen Brook	44.43829316	-73.10417361	NP	Median Filter	0.30	0.98	5,040	No	NA	\$60,000	Complete	2018-2019	2020		
Allen_68	VTrans Median B	VTrans	Vtrans TS4	Allen Brook	44.43819862	-73.10312242	NP	Median Filter	0.21	0.52	3,390	No	NA	\$41,000	Complete	2018-2019	2020		
Allen_62	VTrans Median E	VTrans	Vtrans TS4	Allen Brook	44.4335011	-73.06392831	NP	Median Filter	0.30	0.87	3,642	No	NA	\$44,000	Complete	2018-2019	2020		
Allen_63	VTrans Median F	VTrans	Vtrans TS4	Allen Brook	44.43344021	-73.06275939	NP	Median Filter	0.20	0.86	3,705	No	NA	\$44,000	Complete	2018-2019	2020		
Allen_64	VTrans Median G	VTrans	Vtrans TS4	Allen Brook	44.43339663	-73.06126436	NP	Median Filter	0.32	1.22	5,090	No	NA	\$61,000	Complete	2018-2019	2020		
Allen_65	VTrans Median H	VTrans	Vtrans TS4	Allen Brook	44.43336843	-73.05968678	NP	Median Filter	0.25	1.05	4,902	No	NA	\$59,000	Complete	2018-2019	2020		
Allen_66	VTrans Median I	VTrans	Vtrans TS4	Allen Brook	44.43334124	-73.05811081	NP	Median Filter	0.37	1.29	5,846	No	NA	\$70,000	Complete	2018-2019	2020		
Bartlett_28	Bartlett Bay Treatment System (BBTS)	VTrans/ South Burlington	Vtrans TS4	Bartlett Brook	44.42345911	-73.20979163	5625-9010, 2-0180, 2-0153	Wet pond/ Created Wetland	9.18	6.88	23,958	Yes	NA	\$378,000	Final Design	2018-2019			
Rugg_13	SDC27	VTrans	Vtrans TS4	Rugg Brook	44.788733	-73.071891	NP	Median Filter	0.43	1.19	2,762	No	NA	\$18,000	Final Design	2020-2022			
Rugg_2	SDC280	VTrans	Vtrans TS4	Rugg Brook	44.786703	-73.072319	NP	Median Filter	0.37	1.76	2,741	No	NA	\$18,000	Final Design	2020-2022			
Rugg_3	SDC29	VTrans	Vtrans TS4	Rugg Brook	44.781798	-73.073291	NP	Median Filter	0.41	1.84	2,358	No	NA	\$15,000	Final Design	2020-2022			
Rugg_12	SDC342	VTrans	Vtrans TS4	Rugg Brook	44.780473	-73.073556	NP	Median Filter	0.31	1.29	2,358	No	NA	\$15,000	Final Design	2020-2022			
Rugg_11	SDC347	VTrans	Vtrans TS4	Rugg Brook	44.783058	-73.073026	NP	Median Filter	0.30	1.10	2,608	No	NA	\$17,000	Final Design	2020-2022			
Rugg_14	SDC83a	VTrans	Vtrans TS4	Rugg Brook	44.785364	-73.072583	NP	Median Filter	0.27	1.44	2,534	No	NA	\$16,000	Final Design	2020-2022			
Rugg_10	SDC83b	VTrans	Vtrans TS4	Rugg Brook	44.784141	-73.072811	NP	Median Filter	0.36	1.44	3,339	No	NA	\$22,000	Final Design	2020-2022			
Rugg_4	SDC87	VTrans	Vtrans TS4	Rugg Brook	44.778277	-73.073984	NP	Median Filter	0.92	4.00	5,579	No	NA	\$36,000	Final Design	2020-2022			
Stevens_19	Fairfield Rd / I-89	VTrans	Vtrans TS4	Stevens Brook	44.8014174	-73.05835728	NP	Extended Dry Detention pond	2.07	26.85	29,795	No	NA	\$109,000	Final Design	2020-2022			
Stevens_18	Median A1	VTrans	Vtrans TS4	Stevens Brook	44.80969225	-73.06418466	NP	Median Filter	0.42	0.48	2,468	No	NA	\$27,000	Final Design	2020-2022			
Stevens_17	Median A2	VTrans	Vtrans TS4	Stevens Brook	44.80849093	-73.06433417	NP	Median Filter	0.30	0.36	1,881	No	NA	\$21,000	Final Design	2020-2022			
Stevens_7	SDC105b	VTrans	Vtrans TS4	Stevens Brook	44.80725051	-73.06447737	NP	Median Filter	0.53	0.46	2,333	No	NA	\$26,000	Final Design	2020-2022			
Stevens_6	SDC105c	VTrans	Vtrans TS4	Stevens Brook	44.80585555	-73.06465071	NP	Median Filter	0.44	0.40	1,799	No	NA	\$20,000	Final Design	2020-2022			
Stevens_8	SDC118	VTrans	Vtrans TS4	Stevens Brook	44.80435029	-73.06479914	NP	Median Filter	0.55	0.53	2,544	No	NA	\$28,000	Final Design	2020-2022			
Stevens_9	SDC140b	VTrans	Vtrans TS4	Stevens Brook	44.80015068	-73.0662475	NP	Median Filter	0.50	0.50	2,359	No	NA	\$26,000	Final Design	2020-2022			
Stevens_10	SDC408	VTrans	Vtrans TS4	Stevens Brook	44.80155009	-73.06556776	NP	Median Filter	0.47	0.47	2,047	No	NA	\$23,000	Final Design	2020-2022			
Stevens_11	SDC98b	VTrans	Vtrans TS4	Stevens Brook	44.80286536	-73.0651057	NP	Median Filter	0.42	0.43	1,968	No	NA	\$22,000	Final Design	2020-2022			
Rugg_5	Exit 19 South	VTrans	Vtrans TS4	Rugg Brook	44.791849	-73.067647	NP	Extended Dry Detention pond	3.78	54.16	90,169	No	NA	\$270,000	Final Design	2020-2022			
Centennial_33	I-89 Cloverleaf (NE)	VTrans	Vtrans TS4	Centennial Brook	44.469863	-73.183543	NP	Underground Detention Chamber	13.80	25.38	102,584	No	NA	\$432,000	Preliminary Design	2023-2025			
Potash_183	Exit 13	VTrans	Vtrans TS4	Potash Brook	44.45383471	-73.18311342	NP	Gravel Wetland	4.77	11.95	24,699	No	NA	\$219,000	Preliminary Design	2023-2025			
Potash_184	Exit 14	VTrans	Vtrans TS4	Potash Brook	44.46827172	-73.18502522	NP	Gravel Wetland	1.81	3.09	12,807	No	NA	\$131,000	Preliminary Design	2023-2025			
Potash_186	I-89 Swale	VTrans	Vtrans TS4	Potash Brook	44.44648759	-73.15179558	NP	Median Filter	1.80	4.48	23,130	No	NA	\$129,000	Preliminary Design	2023-2025			
Potash_22	189 Cloverleaf	VTrans / Town	Vtrans TS4	Potash Brook	44.44426543	-73.20950221	NP	Extended Dry Detention pond	11.53	9.72	49,179	No	NA	\$59,000	Preliminary Design	2023-2025			
Indian_34	I-289/Route 15 North	VTrans	Vtrans TS4	Indian Brook	44.50803675	-73.08936891	NP	Median Filter	0.85	1.93	5,271	No	NA	\$34,000	Planned	2023-2025			
Indian_35	I-289/Route 15 South	VTrans	Vtrans TS4	Indian Brook	44.50657713	-73.08711915	NP	Median Filter	0.76	1.39	4,443	No	NA	\$29,000	Planned	2023-2025			
Rugg_8	I-89 / Holyoke Farm	Town / VTrans	Vtrans TS4	Rugg Brook	44.77508504	-73.0709442	NP	Infiltration Trench	0.50	61.33	62,117	No	NA	\$185,000	Planned	2026-2027			
Rugg_45	SASH / Federal St Connector	City/ VTrans	Vtrans TS4	Rugg Brook	44.8003766	-73.08386499	NP	Extended Dry Detention pond	4.89	16.23	15,682	No	NA	\$35,000	Planned	2026-2027			
Rugg_6	Access Rd. East	VTrans	Vtrans TS4	Rugg Brook	44.79429144	-73.0650501	NP	Extended Dry Detention pond	2.75	82.38	79,279	No	NA	\$410,000	Planned	2026-2027			
Rugg_7	Access Rd. West	VTrans	Vtrans TS4	Rugg Brook	44.79811421	-73.07577987	Drains Portion of 1-1428	Extended Dry Detention pond	0.55	13.15	28,401	Yes	Drains Portio	\$125,000	Planned	2026-2027			
Stevens_16	Upper Fairfield Hill Rd	VTrans	Vtrans TS4	Stevens Brook	44.797331	-73.052788	NP	Extended Dry Detention pond	3.36	30.90	55,757	No	NA	\$164,000	Planned	2026-2027			
Potash_159	Dorset St / 189 Ramps	VTrans / Town	Vtrans TS4	Potash Brook	44.45249613	-73.17968065	NP	Extended Dry Detention pond	5.57	3.79	15,159	No	NA	\$101,000	Planned	2026-2027			
Indian_27	Fairview Dr	Village/ VTrans/ Town	Vtrans TS4	Indian Brook	44.50098191	-73.09588351	1-1074 SN002	Gravel Wetland	4.13	25.27	28,967	Yes	1-1074 SN00	\$290,000	Planned	2028-2029			
Potash_157	Queen City Pk Rd	VTrans / Town	Vtrans TS4	Potash Brook	44.44493573	-73.21152185	NP	Extended Dry Detention pond	2.92	3.59	19,689	No	NA	\$99,000	Planned	2028-2029			
Bartlett_26	1690 Shelburne Rd	VTrans/ South Burlington	Vtrans TS4	Bartlett Brook	44.425328	-73.211497	5625-9010	Underground Detention Chamber	0.42	0.39	1,873	Yes	5625-9010	\$199,000	Planned	2028-2029			
Munroe_23	M08 Executive Dr Pond	Town/ VTrans	Vtrans TS4	Munroe Brook	44.412341	-73.21177788	1-1291	Extended Dry Detention pond	21.34	69.76	23,348	Yes	1-1291	\$25,000	Planned	2030-2031			
Munroe_36	Across from Tractor Supply	Town/ VTrans	Vtrans TS4	Munroe Brook	44.411013	-73.21784856	NP	Gravel Wetland	3.77	3.01	23,697	No	NA	\$480,000	Planned	2030-2031			
Munroe_34	By Danform Shoes	Town/ VTrans	Vtrans TS4	Munroe Brook	44.402707	-73.21522753	NP	Underground Detention Chamber	2.84	2.06	6,316	No	NA	\$102,000	Planned	2030-2031			
Centennial_5	I-89 Outfall	VTrans	Vtrans TS4	Centennial Brook	44.472064	-73.182822	NP	Extended Dry Detention pond	2.82	10.25	125,017	No	NA	\$1,419,000	Planned	2032			
Moon_22	Randbury Rd	VTrans/ Town of Rutland	Vtrans TS4	Moon Brook	43.587445	-72.967013	New Road Project (Construction)	Gravel Wetland	10.95	12.15	35,937	No	NA	\$279,000	Planned	2032			
Sunderland_46	Tracy Rd.	VTrans/ Colchester	Vtrans TS4	Sunderland Brook	44.50377	-73.153877	6363-INDS	Infiltration Trench	3.89	1.08	18,513	Yes	6363-INDS	\$54,000	Planned	2032			

**Vermont Agency of Transportation (VTrans)
Transportation Separate Storm Sewer System (TS4)
Stormwater Management Program (SWMP)
Annual Report Workbook
2022**

TAB 9.2: Phosphorus Control Plan (PCP) Development Reporting

Milestone Date	Milestone	Progress Toward Meeting Milestone	Anticipated Schedule
1/1/2018	Submit NOI and SWMP.	NOI and SWMP submitted on December 5, 2017.	Complete
4/1/2018	Establish the baseline phosphorus load and reductions needed. (Subpart 9.2.A.1)	Baseline P load and reductions needed established on March 30, 2018.	Complete
10/1/2018	Complete GIS inventory of phosphorus loading factors. (Subpart 9.2.A.2)	Memo: VTrans PCP - Submission of GIS Files of Loading Factors - dated Oct. 1, 2018	Complete
4/1/2019	Complete development of coefficients of loading rates. (Subpart 9.2.A.3)	Memo: VTrans PCP - Submission of Coefficients for Phosphorus Loading Rates - dated April 1, 2019	Complete
10/1/2019	Submit progress report on Phosphorus Control Plan.	Memo: VTrans PCP – Submission of Progress Report on the Phosphorus Control Plan - dated Oct. 1, 2019	Complete
4/1/2020	Complete generalized statewide Phosphorus Control Plan. (Subpart 9.2.A.4)	Generalized statewide Phosphorus Control Plan submission - dated April 1, 2020	Complete
10/1/2020	Submit 1st 4-year implementation plan (Phase I). (Subpart 9.2.A.5)	Amendment of TS4 to incorporate generalized and 1st 4-year implementation plan - dated Oct. 1, 2020	Complete
April 1, 2021 and every 6 months thereafter (April 1st and October 1st)	Submit semi-annual report on Phosphorus Control Plan implementation. (Subpart 9.2.D)	See attachment D: Lake Champlain Basin Phosphorus Control Plan Progress Report Memo	Complete
10/1/2024	Submit 2nd 4-year implementation plan (Phase II). (Subpart 9.2.A.5)		
10/1/2028	Submit 3rd 4-year implementation plan (Phase III). (Subpart 9.2.A.5)		
10/1/2032	Submit 4th 4-year implementation plan (Phase IV). (Subpart 9.2.A.5)		
No later than June 17, 2036	Complete implementation of the approved PCP.		