

A. Permittee Information

1. Name of MS4: City of St. Albans
 2. Permit Number: 7074 - 9014.ARA1

B. Attached Documents

The following documents have been prepared and submitted with this Annual Report:
 Annual Report Workbook (.xlsx)
 BMP Tracking Table (.xlsx)

C. Certification of STPs constructed to comply with the FRP or PCP

The following BMPs were built or implemented within the past calendar year and were constructed in compliance with the approved Flow Restoration Plan (FRP) or Phosphorus Control Plan (PCP).

Name of System	Location

N/A

_____ Name of Qualified Designer	_____ Title
_____ Signature	_____ Date

D. MS4 Operator Certification

This Annual Report shall be signed by a principal executive officer, ranking elected official or other duly authorized employee consistent with 40 CFR §122.22(b) and certified as follows:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Chip Sawyer _____ Print Name	Digitally signed by Chip Sawyer Date: 2023.03.31 13:28:51 -04'00'	Director of Planning & Development _____ Title
Chip Sawyer _____ Signature		March 31, 2023 _____ Date

Minimum Control Measure Reporting

GP Part	MCM Requirements	Measurable Goal	Description of how requirement was met	List attachments if applicable	Activities planned for next year	Proposed change in BMP or measurable goal?
MM#1: Public Education and Outreach on Stormwater Impacts						
1.c (1)	Website maintained with locally relevant stormwater information	362 site visits and 1,060 page views.	www.fcsvt.org	Franklin County Stormwater RSEP Report.	Same.	No.
1.c (2)	Maintain a program to identify opportunities and provide technical assistance on Low Impact BMPs	204 Visits to technical assistance pages.	Total page views to the following pages: Workshops page: 86, Homeowner DIY: 9, Intentional Gardening: 23, Driveway Drainage: 27, New pages developed: Events Calendar page: 22, Past Events page: 37.	Above.	Same.	No.
1.c (3)	Participate in a regional stormwater education strategy or develop an MS4 specific program	Franklin County Stormwater is the City/Town RSEP, administered by NRPC.	The City pays \$5,000 annually to this effort. In addition to web visits reported above, the RSEP participates in produce of online videos and collaboration with organizations, like the Friends of Northern Lake Champlain. All in RSEP report attached. Including 66 social media posts, 22 News stories and 8 Front Porch Forum posts.	Above.	Same.	No.
	Other	Additional marketing and educational work.	312 4th graders participated in Lake Lessons over 4 days from 4 schools in St. Albans City and Town, Swanton, and Georgia. There were 5 stations with educational content as well as an opening and closing activity.	Above.	Similar	No.
MM#2: Public Involvement and Participation						
2.d	Participate in a regional stormwater public involvement and participation strategy or develop an MS4 specific program	Hosting and/or organization of workshops, projects and other events to engage the public.	Butt Litter Pick-up stats: 8 events, 159 participants, 48,737 butts collected. Outdoor Cleanup Stats: 12 volunteers, 13+ bags of trash collected.	Above.	Same.	No.
	Other	Recruiting volunteers to support projects, promote events, and/or engage the public.	172 volunteers attended FCS-led or sponsored events. Partners: FNLC, ECO AmeriCorps, MRBA, FCNRCD, Franklin Grand Isle Tobacco Coalition, St. Albans Museum, LCBP, and VPIRG.	Above.	Similar	No.
MM#3: Illicit Discharge Detection and Elimination						
3.a (1)	Develop and maintain a GIS or AutoCAD map of the storm sewers in the regulated MS4 showing all outfalls	Implementation of new mapping system.	Worked with "Diamond Maps" to integrate our maps into a GIS system.	N/A.	Continue using and building out system.	No.
3.a (2)	Develop ordinance or policy prohibiting non-stormwater discharges and implement enforcement procedures	Achieved	Adopted as part of Stormwater Management and Operations on 05/14/18.	Previously submitted.	Complete.	No.
3.a (3)	Develop and implement a plan to detect and address non-stormwater discharges	39 outfalls surveyed in 2022.	See attached IDDE report.	IDDE report.	Develop IDDE follow-ups and workplan for 2023.	No.
3.a (4)	Inform public on the dangers of illegal discharges	Catch basins stenciled and IDDE information posted.	No catch basins stenciled in 2022. IDDE updates posted to www.stalbansvt.com/idde	N/A.	Stencil catch basins. Continue IDDE information.	No.
3.a (6)	Status of monitoring activities:					
	Outfalls Inspected:	39	See attached IDDE report.	IDDE report.	Develop IDDE follow-ups and workplan for 2023.	No.
	Number of dry-weather samples taken:	39	See attached IDDE report.	Above.	Above.	No.
	Feet of stormwater drainage pipe inspected:	None.	Did not camera drainage pipe in 2022.	Above.	Above.	No.
	Discharges Detected:	6	Suspected discharges, but further sampling and follow-up is required in 2023.	Above.	Above.	No.
	Discharges Corrected:	None.	Suspected discharges, but further sampling and follow-up is required in 2023.	Above.	Above.	No.
	Other					
MM#4: Construction Site Stormwater Runoff Control						
4.a (1)	Develop and implement procedures to ensure that construction activities undertaken by the MS4 are properly permitted	Achieved.	City projects follow EPSC guidelines and apply for State or local construction stormwater permits, depending on size of project.	N/A.	Same.	No.
	Number of permitted MS4 construction projects:	0		N/A.	Same.	No.
4.a (2)	Review existing policies to determine effectiveness, consistency with state standards; Amend for consistency with state standards	Achieved.	Review performed during drafting of local ordinances 2015-2018. No updates required in 2022.	N/A.	Same.	No.
4.a (3)	Develop and implement ordinance that regulates earth disturbance <1ac	Achieved.	Adopted as part of Stormwater Management and Operations on 05/14/18.	Previously submitted.	Complete.	No.
	Number of projects with <1ac of disturbance subject to MS4 requirements:	0		N/A.	Same.	No.
	Other					
MM#5: Post Construction Stormwater Management for New Development and Redevelopment						
5.d	Review existing policies to determine effectiveness, consistency with state standards, opportunities for LID, and opportunities for changes to street and parking requirements; Amend for consistency with state standards	Achieved.	Review performed during drafting of local ordinances 2015-2018. No updates required in 2022.	N/A.	Same.	No.
5.e	Develop and implement procedures to identify projects that disturb >1ac but do not require a state post-construction permit	Achieved.	Adopted as part of Stormwater Management and Operations on 05/14/18.	Previously submitted.	Complete.	No.
	Number of projects >1ac of disturbance <1ac of impervious:	0	There was none in 2022.	N/A.	Same.	No.
5.f	Adopt an ordinance or policy that requires projects that disturb >1ac to utilize a combination of structural, non-structural, and low impact BMPs and ensure long-term maintenance.	Achieved.	Adopted as part of Stormwater Management and Operations on 05/14/18.	Previously submitted.	Complete.	No.

5.g (1)	Develop and implement procedures for inspecting projects subject to the MS4's ordinance.	Achieved.	Adopted as part of Stormwater Management and Operations on 05/14/18.	Previously submitted.	Complete.	No.
	Number of STPs (without state permits) inspected by MS4:		0 There was none in 2022.	N/A.	Same.	No.
5.g (2)	Develop and implement procedures to ensure that development activities undertaken by the MS4 are properly permitted.	Achieved.	City projects follow guidelines and apply for State or local stormwater management permits, depending on size of project. Typically the only permits needed are State stormwater construction permits, which are obtained.	N/A.	Same.	No.
	Other					
MM#6: Pollution Prevention and Good Housekeeping for Municipal Operations						
6.b (2)	Conduct stormwater training for staff	1 trainings attended.	Nov. 7, 2022, Minnesota Water Research Fund Research Presentation "Do Stormwater Ponds Improve Water Quality?"	N/A.	Resume higher training frequency.	No.
6.b (3)	Implement controls for reducing or eliminating the discharge of pollutants from the MS4.	Achieved.	See below.	N/A.	Same.	No.
	STPs constructed, upgraded, & maintained	5 maintained.	List in BMP tracking table	BMP Tracking Table	Same.	No.
	STPs incorporated into the MS4	0 in 2022. 3 Existing.	List in BMP tracking table	BMP Tracking Table	Same.	No.
	Inspections performed on fleet vehicles, buildings, garages, parks, open spaces	Regular inspections.	Regular maintenance as needed, as per equipment manuals. Notably, the Johnston Sweeper and the Vac-Con Sewer/Stormwater maintenance truck were inspected and maintained over the winter.	See Nonstructural tab.	Same.	No.
	Catch basin cleaning	27 CBs inspected/cleaned and 4 yards of sediment collected.	Complete 'Non Structural Tab'	See Nonstructural tab.	Same.	No.
	Street Sweeping	1,262 miles swept & 148 yards of debris collected.	Complete 'Non Structural Tab'	See Nonstructural tab.	Same.	No.
	Leaf/organic waste removal program	None in 2022. However, did collect xmas trees and recycle them.	Complete 'Non Structural Tab'	N/A.	No plans for 2023 as of yet.	No.
6.b (4)	Develop and implement procedures for proper disposal of wastes	Achieved.	Submitted with 2019 Report. No updates in 2022.	Previously submitted.	Update as needed.	No.
6.c	Prohibit use of phosphorus containing fertilizers on facility operations unless warranted by a soil test; submit copy of test	Achieved.	This is a standard City policy. Also included in contracts, when appropriate.	N/A.	Update as needed.	No.
6.d	Participate in the Agency's Municipal Compliance Assistance Program (or other audit program) for municipal garages	None. Informed that MCAP no longer exists.	Informed by VT DEC staff that MCAP no longer exists. No replacement program was brought to our attention.	N/A.	Resume similar program, if made available.	No.
	Other					

Additional MS4 Reporting Requirements	
Annual Review of SWMP completed	Yes
Results of information collected and analyzed, if not included elsewhere	N/A
Notice that permittee is relying on another entity to satisfy some of its permit obligations	Northwest Regional Planning Commission: MCMs 1 and 2.
Estimated funds spent on stormwater management for the fiscal year*	\$274,024 (Stormwater Utility FY2022 budget)
Other information, if applicable	

Impaired Waters Response Plan	
Impaired Stream	Rugg Brook.
Impairment	Stormwater sediment.
Status of implementation	Pursuing implementation of FRP.
Planned activities for upcoming year	Pursue funding and construction of SASH/Nason St. BMP.
Other information, if applicable	

Impaired Waters Response Plan	
Impaired Stream	Stevens Brook.
Impairment	Stormwater sediment.
Status of implementation	Pursuing implementation of FRP. Continued design of 74 Lo. Welden St. BMP and completed final design of Lemnah Drive BMP.
Planned activities for upcoming year	Pursue funding and construction of 74 Lo. Welden St. BMP and Lemnah Drive BMP. Continue conversation with VT DEC about Hungerford land BMP.
Other information, if applicable	

Non Structural BMP Reporting

Complete Table 1 or 2, depending on tracking method used by MS4

Table 1. Area tracking method			
Sub Area Name (Lake segment, route, etc.)	St. Albans Bay		
Area of streets swept (acres)	46.5		
P Load from Streets where sweeping occurs (kg/year)	20		
Sweeper Frequency	Weekly		
Sweeper Technology	Vacuum Assisted		
Year sweeping started	2008		
If weekly or monthly, number of months streets are swept	8		
Phosphorus Credit	4.27%		
Phosphorus Reduction from Street Sweeping (kg/year)	0.85333333		
Catch Basin Cleaning			
P Load from Streets where catch basin cleaning occurs (kg/year)			
Phosphorus Credit	2%	2%	2%
Phosphorus Reduction from Catch Basin Cleaning(kg/year)			

Table 2. Measurement of material tracking method	
Combined dry weight of material collected (kg)	
OR Cubic yards of material collected	4 yards total from 27 catch basins.
Number of sediment samples taken	One sample in April.
Lab where samples were processed	
Record the average TP result	
Was a particle size analysis done?	
Please attach results from the lab	

**There is currently no approved accounting methodology based on weight or volume of material collected. Should a method be developed, DEC anticipates information like that in Table 2 could be required.

Table 3. Phosphorus Reduction Factor				
	2/year (spring and fall)	Monthly	Weekly	4X in the fall
Mechanical Broom	1%	3%	5%	17%
Vacuum Assisted	2%	4%	8%	17%
High Efficiency Regenerative Air-Vacuum	2%	8%	10%	17%

Flow Restoration Plan Implementation		
	Rugg Brook	Stevens Brook
Summary of actions taken to implement FRP components	Final design and permitting for SASH/Nason BMP	Continued design of 74 Lo. Welden St. BMP and completed final design of Lemnah Drive BMP.
What is the MS4's overall status in implementing the FRP?	Final design of one FRP.	Final Design of 2 FRPs.
Summary of BMP implementation planned for the next calendar year, if any.	Pursue funding and construction of SASH/Nason St. BMP.	Continue design of Lo. Welden Cooling Ponds BMP. Pursue funding and construction of 74 Lo. Welden St. BMP and Lemnah Drive BMP. Continue conversation with VT DEC about Hungerford land BMP.
Assessment of ability to meet outstanding schedule items	No actionable evidence at this time that schedule cannot be met, but the true feasibility of all BMPs has not yet been tested against realities in the field, including landowner issues, VT DEC permitting conflicts, and final costs.	No actionable evidence at this time that schedule cannot be met, but the true feasibility of all BMPs has not yet been tested against realities in the field, including landowner issues, VT DEC permitting conflicts, and final costs.

Stream Flow Monitoring	
Does your municipality conduct stream flow monitoring?	No

Stream Corridor Protection	
Ordinance or regulation adopted to protect and regulate development in sw impaired water stream corridors	Stream Corridor Rules previously adopted are available at www.stalbansvt.com/stormwater

Phosphorus Control Plan Development	
Road Erosion Inventory (REI)	Uploaded to 'Municipal Roads General Permit Implementation Table' in Dec. 2019
Are there any segments on the MRGP Implementation Table portal that are incomplete? If so, please describe how the data will be completed.	All segments were previously complete, but online tool is currently showing incomplete. We believe this is due to a data error, and our consultants will work with DEC to make sure all are returned to complete status.
Roads and Outlets planned for upgrade in calendar year 2023.	None.
Extent of street sweeping and catch basin cleaning	See 'Non-structural tab'
Extent of stormwater BMP implementation	See 'BMP Tracking Table'
What is the MS4's overall status in implementing the PCP?	Final design of three major BMPs, including the 74 Lo. Welden facility.
Assessment of the ability to meet outstanding schedule items	No actionable evidence at this time that schedule cannot be met, but the true feasibility of all BMPs has not yet been tested against realities in the field, including landowner issues, VT DEC permitting conflicts, and final costs.
List of '3 acre sites' that have been taken over by the MS4 in the past calendar year.	None.
Has the additional loading from privately owned land associated with the 3-acre sites been addressed in the phosphorus control plan? If not describe the MS4s plan to address the additional target.	The City's PCP anticipates the loading that will be associated with 3-acre site permits that are likely to be taken over by the City's MS4 permit in the future. That loading is incorporated in the P target strategy laid out in the PCP.

BMP Identification								Maintenance	
Unique ID	Project Name	Land Owner	Responsible Party	Latitude (decimal degrees)	Longitude (decimal degrees)	Previous SW permit number (if applicable)	Part of MS4/ Incorporated into MS4	Date of last inspection	Maintenance needed?
INC01	Murray Drive Swales	City of St. Albans	City of St. Albans	44.809995	-73.098619	1-0477	Yes	April 2022	Yes
INC02	Guyette Cir/Bowles Ln Swales	City of St. Albans	City of St. Albans	44.807015	-73.096380	1-0691	Yes	April 2022	Yes
INC03	Lemnah Drive 1	City of St. Albans	City of St. Albans	44.806063	-73.089327	2-0147	Yes	April 2022	Yes
INC04	Warner Dr/Isham Ave	City of St. Albans	City of St. Albans	44.817612	-73.076212	5521-9010.R	No	June 2022	Yes
DIV01	Stevens-Rugg Diversion Canal	City and Town of St. Alban	City and Town of St. Albans	44.806259	-73.091888	5643-INDO.AR	No	May 2021	Yes