VTrans Fall 2023 Transportation Alternatives (TAP)
and
Municipal Highway and Stormwater Mitigation Program Grant (MHSMP)
Combined Application

Thoroughly read the TAP and MHSMP application guidebooks before you begin your application. It includes important program information and step-by-step instructions. Pay particular attention to the application process requirements. **Applications are due by e-mail by December 8, 2023.** Please e-mail the completed application to: Ross.gouin@vermont.gov and Scott.robertson@vermont.gov.

Adelphia Cable Pond Retrofit FRP Project
(Project Name/Title)

Marisa Rorabaugh
(Municipality contact person responsible for the management of this project)

South Burlington
(Town)

05403
(Zip Code)

104 Landfill Rd, South Burlington VT
(Mailing Address)

802-658-7961 ext. 6111
(Phone)

MRorabaugh@southburlingtonvt.gov
(e-mail address)

$ 44,000
Amount of **Federal Funds requested** (no more than 80% of the project cost estimate).

11,000
Amount of Local Match. Example:
Federal Award = $600,000 (*80% of total*)
Local Match = $150,000 (*20% of total*)
Total Project Cost = $750,000 (*100% of the total*)

County: Chittenden

Town/Village/City: South Burlington

Specific location, street, or road: Kimball Ave

Regional Planning Commission: Chittenden County Regional Planning Commission

If a linear project, what is the length in feet? Click here to enter text.

Is the project on or intersecting to a State maintained highway? Yes ☐ No ☒

- *Note: If yes, be sure to include documentation that you have notified the VTrans District Transportation Administrator of the intent to apply for TA funding and have provided them with a brief (one paragraph) description of the proposed project.*

Project type being applied for: ☒ **Scoping** ☐ **Design/Construction**

The municipality understands that a typical construction project utilizing TAP or MHSMP Program funds will take roughly three years (min.) in the Design and ROW phases prior to going to construction (as pointed out in the TAP and MHSMP Application Guides)? Yes ☒ No ☐

Does this project have a previously completed scoping or feasibility study? Yes ☐ No ☒

Note:
Attach a map(s) of the project area and clearly show the limits of the project as well as surrounding benefits from the proposed improvement. If the project is within or adjacent to a designated downtown, village or growth center, clearly indicate the relationship of the proposed project to the boundary of the designated area. Color photos of the area are also recommended.

Fiscal Information:

Accounting System Automated ☐ Manual ☐ Combination ☒

SAM Unique Identifier # QLSMM3HYJJP1

Fiscal Year End Month June

Property Ownership:

If the proposed project is on private property that will need to be acquired by the Municipality through purchase, easement, or eminent domain (includes temporary construction rights) in accordance with the "Uniform Act", then the municipality is committed to exercising its right of ***eminent domain*** to acquire the rights to construct the project if necessary. Yes ☒ No ☐

Funding:
Does this project already have existing funding? If so, please describe. Yes ☐ No ☒

Please note that existing projects will not be considered for additional funding without a current NEPA clearance and ROW clearance. Please provide date of clearances below:

Will you accept an award less than you applied for? Yes ☒ No ☐

- If yes, please indicate whether local funds will be used to make up the shortfall, or if the project scope will be reduced. If the project scope is to be reduced, describe what part of the project (please be specific) you would accept partial funding for.

A support letter from the governing body of the applicant municipality or organization and an acknowledgement and source of the local match and commitment to future maintenance responsibility for construction projects is required (must be dated within 1 year of the application). Is a letter of support attached?

Yes ☒ No ☐

Regional Planning Commission Letter of Support:
In order to apply, the project must have a letter of support from the regional planning commission. Is a letter of support attached?

Yes ☒ No ☐

PLEASE NOTE**:* If this application is for salt or sand shed funding, the applicant must read and understand the ***Municipal Assistance Section Salt Shed Application Guide. All of the following scoring questions below must thoroughly convey an understanding of the salt and sand guidance provided.

Application Scoring Criteria:

1. **Please give a brief description of the project (be sure to indicate the primary facility type being applied for and be concise).**
   (10 points max.)
   As part of the requirements set by the Municipal Separate Storm Sewer System (MS4) General Permit, the City developed Flow Restoration Plans (FRPs) for each of its impaired watersheds that were identified in the EPA's 303(d) list of Impaired Waters. Pursuant to the streams' impaired status, Total Maximum Daily Loads (TMDLs) have been assigned to each with the goal of improving water quality. A comprehensive Potash Brook FRP was developed that identified a suite of stormwater treatment practices capable of achieving the 16.5% high flow reduction target prescribed in the Potash Brook TMDL. The Adelphia Cable Pond Retrofit project was listed in the Potash Brook FRP and is proposed to capture a 4.15-acre drainage area, of which 2.66 acres are impervious area. The project proposes to upgrade an existing detention pond located at 43 Comcast Way with a gravel wetland. This upgrade will help the existing treatment practice meet current design standards by bringing it into compliance with the Vermont Stormwater Management Manual (VSMM). This project would also include rerouting runoff from a portion of Kimball Ave to the proposed treatment practice. This portion of Kimball Ave is currently untreated and discharges directly into the Potash Brook via a series of catch basins and drainage pipes.

2. **What is the feasibility of this project? Feasibility (or Scoping) study applications will not be scored on this criterion. Also, please describe the extent of project development to date.**
   (10 points max.)
   The feasibility of this project will be determined through the scoping process.

3. **Does this project address a need identified in a local or regional planning document? If so, please describe.**
   (5 points max.)
   This project will help advance the City toward achieving its TMDL flow reduction target for the Potash Brook watershed. As mentioned above, this project was highlighted in the Potash Brook FRP. The draft 2024 City Plan calls for expanding and improving the stormwater utility's projects; completing a scoping study for this project would allow for the City to move into design and construction once a feasible project is determined, thus addressing the needs identified in the City plan. This project would also address Strategy 3 described in the CCRPC's 2018 Chittenden County ECOS Plan. This strategy's aim is to improve water quality within each watershed in Chittenden County. This scoping study would allow for us to find a feasible design alternative to improve

treatment of runoff that eventually discharges into the Potash Brook, which would improve the water quality of the watershed.

4. **Does this project:**
   A. **Benefit a State Designated Center per the link below (i.e., downtowns, villages, or neighborhood growth centers recognized by the Vermont Department of Economic, Housing and Community Development?**
   Not applicable for Environmental Mitigation Categories **(5 points max.)**
   http://maps.vermont.gov/ACCD/PlanningAtlas/index.html?viewer=PlanningAtlas

   B. **Benefit mobility for disadvantaged populations to include elderly, disabled, minorities, and low-income residents. Please describe this impact (if applicable) in detail. Supporting documentation, including recent data must be included.**
   Not applicable for Environmental Mitigation Categories **(10 points max.)**

5. **Provide a project cost estimate below (project costs below include both federal dollars and local dollars). Projects will be scored based on whether the cost appears realistic for the size and scope of the project. For scoping studies, use PE and Local Project Management lines only.**
   Note: If you are applying for additional funds for an existing project, show the amount being requested for this grant in the PE, ROW, Construction, Construction Engineering, and Municipal Project Management rows below. Also, be clear regarding total project cost and other funding amounts and sources in the additional funding comments box below.
   (10 points max.)

Preliminary Engineering (PE) *(Engineering, Surveying, Permitting)*	$ 50,000
Right-of-way / Acquisition (ROW) *(appraisals, land acquisition and legal fees)*	$
Construction *(construction costs with reasonable contingency)*	$
Construction Engineering *(cost to provide inspection during construction)*	$
Municipal Project Management Costs (minimum of 10% of total PE, ROW and Construction Phases).	$ 5,000
Total Project Cost	***$*** 55,000

Addition Funding Comments: (ex. Total and additional funding for existing projects)

6. **Select the eligibility category below (A, B, C or D) that best fits your project and answer the corresponding questions for that category (choose only one category). <u>10 bonus points will be awarded to projects that are primarily Bicycle or Pedestrian facilities.</u>**

   ☐ **A. Bicycle and Pedestrian Facilities (includes Safe Routes for Non-Drivers and Conversion of abandoned railroad corridors.**

   (i) Will the project contribute to a system of pedestrian and/or bicycle facilities? **(10 points max.)**

   (ii) Will the project provide access to likely generators of pedestrian and/or bicyclist activity? **(10 points max.)**

   (iii) Will the project address a known, documented safety concern? **(10 points max.)**

☐ **B. Community Improvement Activities:**

i. Explain how the project improves the economic wellbeing of the community and/or provide a benefit to state tourism? **(10 points max.)**

ii. Describe the anticipated impact to the public; degree of visibility, public exposure and/or public use. **(10 points max.)**

iii. Answer only one of the following based on the type of project:

a) Construction of turnouts, overlooks, and viewing areas as related to scenic or historic sites. *To what extent will the project provide a view of a highly unique and scenic area?*
b) **(10 points max.)**

c) Preservation or rehabilitation of historic transportation facilities. *Describe the historic significance of the historic transportation facility and the importance of the facility to the state.* **(10 points max.)**

d) Archeological planning and research related to impacts from a transportation project. *Describe the associated transportation project and benefit of the proposed activities.* **(10 points max.)**

e) Vegetation management in transportation rights of way to improve roadway safety, prevent invasive species, and provide erosion control. *Describe the extent of the current problem and the impact on the site and surrounding area.* **(10 points max.)**

☒ **C. Environmental Mitigation Activity Related to Stormwater and Highways (Including Salt and Sand Sheds)**

i. Please describe how this application provides environmental mitigation relating to stormwater and highways. **(10 points max.)**

The proposed project provides environmental mitigation by providing higher quality treatment than is currently provided for the impervious surfaces within the drainage area. Kimball Ave is not currently treated by any kind of stormwater treatment practice and the impervious on the Adelphia Cable property is treated by a detention pond that is designed to outdated standards. By bringing the pond into compliance with the current VSMM, the runoff will have higher treatment of phosphorus than the current system. The flows from the practice during the 1-yr storm will also be lowered, which will help to mitigate erosion during this storm event.

ii. What information or data is provided to substantiate the current stormwater problem and associated environmental impacts? **(10 points max.)**

The current stormwater problem is outlined in the Total Maximum Daily Load to Address Biological Impairment in Potash Brook (VT05-11) dated October 2006 prepared by the Vermont Department of Environmental Conservation. This document outlines the biological monitoring completed to determine the quality of water within the Potash Brook and how the TMDL was calculated. This document states that the Potash Brook is impaired due to multiple impacts associated with excess stormwater runoff and is thusly non-supportive of aquatic life designated uses.

iii. What substantiating data or information is provided to show that the proposed application is an effective and maintainable solution to the problem? **(10 points max.)**

The VSMM provides information regarding the efficiency of stormwater treatment practices regarding removal of nutrients. The VSMM states that Tier 2 practices can remove 60-80% of total Phosphorus (TP) and 80-97% of total suspended solids (TSS) from runoff, as opposed to Tier 3 practices which are only capable of 50-60% of TP removal and approximately 80% TSS removal. These values are based on the U.S. EPA's BMP Performance Curves. This practice will also potentially be capable of capturing impervious area that is currently not treated, which will improve water quality of the Potash Brook as well and reduce flows into the brook during the 1-yr storm event. Further evaluation of alternatives will be needed to determine the full extents of improvements that may be possible through this project.

☐ **D. Environmental Mitigation Activity Related to Wildlife**

i. Please describe how this application will reduce vehicle-caused wildlife mortality or will restore and maintain connectivity among terrestrial or aquatic habitats. **(10 points max.)**

ii. What information or data is provided to substantiate the current problem and associated environmental impacts? **(10 points max.)**

iii. What substantiating data or information is provided to show that the proposed application is an effective and manageable solution to the problem? **(10 points max.)**