

CCRPC FY2020 Water Quality Projects

| Project | Project | Partner | Source | Status | Trans Cost | Description |
|--------------|--|-------------------|-----------------|----------|------------------|---|
| 1 | Watershed Resiliency Mapping | Munis TBD, VTrans | CCRPC Staff | Regional | \$10,000 | This project would replicate the project that VTrans conducted to help identify road segments, bridges and culverts that are vulnerable to flood and erosion damages. Critical locations will be pinpointed and mitigation options on the transportation network will be identified. A web-based application will be created to display risk information for one watershed in Chittenden County. |
| 2 | Water Quality Transportation | Seven Munis | CCRPC Staff | Regional | \$40,000 | Consultant assistance in developing conceptual plans and cost estimates for high priority Road Erosion Inventory (REI) sites for Municipal Roads General Permit (MRGP) compliance. Conceptual plans would contain geographic locations, extent, and detailed schematics or examples of various stormwater mitigation infrastructure techniques that will assist in meeting MRGP standards and mitigate roadway stormwater erosion. |
| 3 | Right-of-Way Condition Inventory for Stormwater Retrofit Feasibility – Phase 1 | Burlington | Jenna Olson | Local | \$70,000 | This project would cover Phase 1 (Wards 5 & 6) of a multi-year effort to create a comprehensive condition inventory of the City's right-of-way, to determine the feasibility of implementing stormwater retrofits to treat and manage stormwater runoff. This inventory would allow Burlington's Stormwater Program to coordinate, plan, and execute retrofits ahead of other City transportation and asset management projects. This data will further allow us to be nimble in implementing the City's Integrated Plan. Note: Original request was \$157,964. Cost reduced and asked Burlington to phase this effort. |
| 5 | Essex Stormwater CCTV Inspection | Essex | Annie Costandi | Local | \$45,000 | The Town doesn't have a complete assessment of the condition of old metal and aluminum pipes in the Town. The areas selected above were constructed between the 1960s and 1980s and consist of the pipes originally installed while the development was constructed. The areas selected are rated and based on known deficiencies and maintenance and repair records. It is imperative that the Town understand the condition of the pipes for future financial planning. The project consists of hiring a consultant to use a camera to televise the pipes and generate a condition assessment report that the Town will then use to create a stormwater infrastructure replacement plan, to be used in both operational and capital infrastructure planning. Note: Original request was \$50,000. Reduced cost by removing ineligible pipe cleaning. |
| 6 | Tanglewood Drive Shared-Use Path and Stormwater Scoping Project | Essex | Annie Costandi | Local | \$39,000 | This study will include scoping for a multiuse path and stormwater improvements along Tanglewood Drive. The Tanglewood Drive neighborhood currently lacks adequate infrastructure for bicyclists and pedestrians. Moreover, the roadway's 40-ft cross section contributes to significant stormwater runoff into a gully located at the end of Fern Hollow Road, which has caused significant erosion and has contributed to an increase in the sediment load to the Alder Brook watershed. This study will seek to identify alternatives to enhance safety for bicyclists and pedestrians, while also identifying opportunities to reduce the stormwater runoff from the transportation system. |
| 7 | Essex Jct Stormwater CCTV Inspection | Essex Jct | Chelsea Mandigo | Local | \$45,000 | The Village has determined the need for an assessment of the condition of the stormwater pipes in our MS4 permitted area. The areas selected have not been televised, are known to have some developing deficiencies, recent problems or concerning repair records. The project would consist of hiring a consultant to televise the stormwater pipes in the selected areas and create a condition assessment report in PACP standards. The Village would then use the assessment to guide future stormwater improvement project planning including a schedule for replacement of deficient pipes as part of capital and operational planning. Note: Original request was \$50,000. Reduced cost by removing ineligible pipe cleaning. |
| 8 | MRGP Improvement Plan | Jericho | Todd Odit | Local | \$10,000 | Develop a 10-yr plan to improve hydraulically connected road segments which do not currently meet MRGP standards. Ensure that the methodology is applicable for other rural municipalities. |
| 9 | Stormwater Project Conceptual Design | Richmond | Jessica Draper | Local | \$4,523 | The goal of this study is to update conceptual plans to address stormwater runoff from I-89 that is creating erosion issues in and around the Camels Hump Middle School property. This project was identified in the most recent Richmond SWMP. |
| 10 | Town of Williston Phosphorus Control Plan | Williston | James Sherrard | Local | \$50,000 | The Town of Williston is requesting funding to hire a consultant to prepare the initial (first phase) town-wide Phosphorus Control Plan (PCP). The main component will be to identify eligible opportunities for reductions in the amount of phosphorus discharging to Lake Champlain. At a minimum, the PCP shall be designed to achieve a level of phosphorus reduction equivalent to the reduction targets required for Williston's developed lands as put forth in the TMDL. |
| 11 | Inspection and Inventory of Existing Stormwater System | Winooski | Jon Rauscher | Local | \$75,000 | The proposed work includes inspection, condition assessment and updating GIS layers for the City's stormwater drainage system within the roadway network. The data will be used to better manage the City's transportation capital planning program and support water quality improvement planning. The work should include visual inspection using zoom camera technology. Results would be analyzed to determine replacement, rehabilitation, or maintenance needs. Deliverables would also include updated GIS layers with physical asset details and condition data. |
| 12 | City of Winooski Phosphorus Control Plan | Winooski | Jon Rauscher | Local | \$19,000 | MS4 communities within the Lake Champlain Basin are required to complete a Phosphorus Control Plan for developed lands within their municipality. We are proposing to perform a study focused on the transportation network stormwater runoff to support the full study. The goal would be to provide a plan for the City to achieve phosphorus reduction targets for the City's impervious transportation network. The scope would include a report with mapping/modeling to identify existing transportation-related stormwater BMPs and good-housekeeping practices with modeled credits. The report would also include potential concept-level transportation BMP projects with corresponding phosphorus credit modeling. |
| Total | | | | | \$407,523 | |