

**TOWN OF RICHMOND**

**Report: Calendar Year 2019: Progress on Implementation of All-Hazards Mitigation Plan**

**Date:** May 2020  
**To:** Selectboard  
**From:** Josh Arneson, Town Emergency Management Director  
**Information collected by:** Chittenden County RPC in partnership with municipal staff

*Table 5-8 Town of Richmond Mitigation Actions: Implementation Monitoring Worksheet*

<p><b>CATEGORY A: Complete fluvial geomorphology assessment and address identified vulnerable infrastructure to mitigate Severe Rainstorm, Flooding, Fluvial Erosion and Water Pollution and their associated vulnerabilities of:</b></p> <ul style="list-style-type: none"> <li>• Damage to new/existing public infrastructure and buildings</li> <li>• Temporary road and bridge closure</li> <li>• Budgetary impacts</li> <li>• Temporary loss of power and/or telecommunications</li> <li>• Temporary isolation of vulnerable individuals</li> </ul>	
<p><b>Action</b> (Primary Responsible Entity)</p>	<p><b>Report on Progress since Plan adoption</b> <i>See Section 5.4 for details on locations identified during Plan development.</i></p>
<p><b><u>Action A-1: Complete Geomorphic assessment and corridor management plan for the Winooski River</u></b> (CCRPC, Town &amp; VT-DEC)</p>	<p><u>Town reports progress in 2019 as follows:</u></p> <ul style="list-style-type: none"> <li>• No progress in 2019. Funding opportunities are limited according to CCRPC</li> </ul>
<p><b><u>Action A-2: Flood Hazard Mitigation Project Implementation</u></b> (Town Manager &amp; Town Planner)</p>	<p><u>Town reports progress in 2019 as follows:</u></p> <ul style="list-style-type: none"> <li>• Work continued on the 98 Jones Mill Road home elevation project. Note: project was completed in spring 2020</li> <li>• The Town investigated the possibility of submitting an application to FEMA for a home elevation project at 54 Jones Mill Road.</li> </ul>
<p><b>CATEGORY B: Improve capabilities of existing road and stormwater management infrastructure to mitigate Severe Rainstorm, Flooding, Fluvial Erosion and Water Pollution and their associated vulnerabilities of:</b></p> <ul style="list-style-type: none"> <li>• Damage to new/existing public infrastructure and buildings</li> <li>• Temporary road and bridge closure</li> <li>• Budgetary impacts</li> <li>• Temporary loss of power and/or telecommunications</li> <li>• Temporary isolation of vulnerable individuals</li> </ul>	
<p><b>Action</b> (Primary Responsible Entity)</p>	<p><b>Report on Progress since Plan adoption</b> <i>See Section 5.4 for details on locations identified during Plan development.</i></p>
<p><b>Action B-1: Culvert Upgrades</b></p>	<p><u>Town reports progress in 2019 as follows:</u></p>

(Town Road Foreman)	<ul style="list-style-type: none"> <li>• May 2019 Grandview Drive replaced two failed 18” diameter cmp road crossing culverts with 18” HDPE culverts. Replaced one failed 12-inch cmp driveway culvert with one 18” HDPE culvert.</li> <li>• June / July 2019 replaced 4 road crossing culverts on Stage Road utilizing a Grants in aid grant. One culvert was 36” diameter cmp replaced with a 36” diameter HDPE, one culvert was 12” diameter cmp and replaced with an 18” HDPE, the other two were 18” cmp’s replaced with 18” HDPE culvert pipe. All six, one-hundred segments plus additional culvert work.</li> <li>• September 2019 replaced a failed 12” cmp road crossing culvert on Cochran Road with an 18” HDPE culvert.</li> <li>• November 2019 replaced a failed 36” diameter cmp road crossing culvert on Thompson road with a 36” diameter HDPE culvert.</li> </ul>
<p><b>Action B-2: Drainage Improvements</b> (Town Road Foreman)</p>	<p><u>Town reports progress in 2019 as follows:</u></p> <ul style="list-style-type: none"> <li>• May 2019 ditched, rock lined and installed check dams on 600 feet of Grandview Drive.</li> <li>• July / August ditched, rock lined, installed check dams and splash pools on 1.5 miles of Stage Road utilizing a Grants in aid grant. All 6 segments plus additional work.</li> </ul>
<p><b><u>Action B-3: Road Improvement</u></b> (Town Road Foreman)</p>	<p><u>Town reports progress in 2019 as follows:</u></p> <p>Non-MRGP related work</p> <ul style="list-style-type: none"> <li>• May 2019 re-surfaced (3/4” plant mix gravel) .30 miles of Grandview Drive.</li> <li>• June 2019 re-surfaced (3/4” plant mix gravel) .10 miles of Besaw Road.</li> <li>• June 2019 re-surfaced (3/4” plant mix gravel) .40 miles of Roger’s Lane.</li> <li>• August 2019 re-surfaced (3/4” plant mix gravel) 2.80 miles of Stage Road. All 6 segments plus rest of road.</li> <li>• September / October re-surfaced (3/4” plant mix gravel) 2.20 miles of Wes White Hill Road.</li> <li>• June 2019 re-surfaced (Type IV hot mix) .33 miles of Jericho Road.</li> <li>• June 2019 re-surfaced (Type IV hot mix) .70 miles of Cochran Road.</li> <li>• June 2019 re-surfaced (Type IV hot mix) .90 miles of Wes White Hill Road.</li> <li>• August 2019 re-surfaced (Type IV hot mix) 1.90 miles of Hinesburg Road.</li> </ul>

**CATEGORY C: Implement Roads Stormwater Management Plan to mitigate Severe Rainstorm, Fluvial Erosion and Water Pollution and their associated vulnerabilities of:**

- Damage to new/existing public infrastructure

- Impairment of local waterways and Lake Champlain
- Budgetary impacts

<b>Action</b> <b>(Primary Responsible Entity)</b>	<b>Report on Progress since Plan adoption</b> <i>See Section 5.4 for details on locations identified during Plan development.</i>
<u><b>Action C-1 Develop Roads Stormwater Management Plan</b></u> (Town Road Foreman)	<u>Town reports progress in 2019 as follows (text by CCRPC):</u> <ul style="list-style-type: none"> <li>• Through assistance provided by the CCRPC, conceptual plans for improvements were developed for 14 one-hundred-meter segments of Snipe Ireland Road</li> <li>• Work on six segments of Jericho Road (funded by Better Roads Grants) scheduled for summer 2020.</li> <li>• The Town applied for and received an MRGP permit from the State in 2018.</li> <li>• The Road Erosion Inventory has been completed with the assistance of the CCRPC.</li> </ul> <p>Management plans, capital improvement programs and the formal RSMP will be filed in the coming years pursuant to the requirements of the MRGP which was issued on 1/26/18.</p>
<u><b>Action C-2 Begin Roads Stormwater Management Plan implementation</b></u> (Town Road Foreman)	<u>Town reports progress in 2019 as follows:</u> <ul style="list-style-type: none"> <li>• Stage Road project complete (funded by Grants-in-Aid program). See details in B-1 and B-2 above</li> <li>• Improvements to Grandview Drive. See details in B-1 and B-2 above.</li> </ul>