

Watershed Management Division
Springfield Regional Office
100 Mineral Street, Suite 303
Springfield, VT 05156
www.watershedmanagement.vt.gov

[phone] 802-885-8855
[fax] 802-885-8890
[cell] 802-345-3510

EMERGENCY PROTECTIVE MEASURE – FINAL AUTHORIZATION

Pursuant to Section E of the Vermont Stream Alterations General Permit

Project Number: EPM-030-2014 Chester Bridge 9 Debris Removal Sewer Crossing

Municipality: Town of Chester, PO Box 370, Chester, VT 05143

Phone: (802) 875-2173

Contact: Graham Kennedy or Julie Hance

Email: jhchester@vermontel.net

Project Location: Downstream and East of Route 103 Bridge 9

Watercourse: Williams River

The Secretary of the Vermont Agency of Natural Resources (VT ANR) has determined that the project as reported:

1. Authorizes removal of tree and sediment debris made necessary by the imminent threats of bridge footing and sanitary sewer main undermining by scour, removal of approx. 1,000 c.y. of gravel extraction and placement of approx. 30 c.y. of 2' minus rip-rap under and around the sewer.
2. Is eligible for coverage under the VT ANR Stream Alteration General Permit Measures.
3. Has met the following terms and conditions of Section E of the General Permit:
 - a) Was necessary to preserve life or to prevent severe imminent damage to public and/or private property;
 - b) Had prior approval from a state or municipal governmental representative with the legal authority to make a public health or safety determination;
 - c) Was limited to the minimum amount necessary to remove the imminent threat, was proportional to the threat and ceased when the threat to life or of severe property damage ended;
 - d) Was implemented in a manner consistent with the standards set forth in Sections E.2.1 through E.2.4 of the General Permit;
 - e) Met Stream Alteration Standards to the greatest extent possible.
4. Was documented with photographs and narrative, submitted to VT ANR within 30 days of the emergency protective measure.

The project, as constructed and reported by the municipality, did not incur any violation of Vermont Water Quality Standards.

Signed this 13th day of February, 2015

David K. Mears, Commissioner

Department of Environmental Conservation



by: _____
Todd Menees, P.E., P.H., River Management Engineer

B #9

Subject: VTrans & Chester: SA-Emergency Protective Measure: kennedy, graham
From: "Menees, Todd" <Todd.Menees@state.vt.us>
Date: 8/11/2014 7:25 PM
To: ANR - WSMRD Rivers <ANR.WSMDRivers@state.vt.us>
CC: "Pickering, Marc" <Marc.Pickering@state.vt.us>, "Canarecci, Kim" <Kim.Canarecci@state.vt.us>, "Doherty, Ray" <Ray.Doherty@state.vt.us>, "grahamke@vermontel.com" <grahamke@vermontel.com>, "grahamkennedy@vermontel.com" <grahamkennedy@vermontel.com>, "Julie Hance Chester Admin" <jhchester@vermontel.net>, "Kline, Mike" <Mike.Kline@state.vt.us>

All –

Please scroll down below for damage reported today and you will read the Emergency Protective Measure EPM-030-2014 authorization for the town to begin removal of trees and sediment debris blocking the state bridge #9 on Rte 11 in downtown Chester and repairing an exposed town sewer line crossing. This e:mail also documents the VTrans emergency needs to restore the channel capacity through the bridge under Title 19 – Marc Pickering and I discussed the efficacy of a single effort by one contractor to complete the work expeditiously.

This situation needs immediate attention for public safety (state and local emergency services), protect infrastructure (bridge and sewer service) and to be included in the potential funding pool for a FEMA federal disaster declaration scheduled to be compiled by the end of this week. The impaired bridge conditions also include scour, abutment protection and repairs to failed rip-rap on wingwalls.

I spoke with Graham Kennedy Road Foreman and Jeff Holden Treatment Plant Operator today, site photos attached. I met earlier with Evan Fitzgerald who just today started field work on a Phase II Stream Geomorphic Assessment of the Williams River and he alerted me to this before Noon today. The town was unaware of the exposed sewer line so I presume this damage from the 7/28/2014 flood is not included in the FEMA damage assessment in the past 2 weeks. This sewer line location was an unprotected sewer line taken out by T.S. Irene flood flows and replaced with DI pipe and encased in the concrete envelope in the attached photo. The 7/28/2014 flood has now exposed the concrete envelope on all four sides.

The Route 103 Bridge 9 replacement was just completed in Summer 2011 before Irene and I recall the sewer line issue post-Irene but no bridge related issues. After the 7/28/14 storm the southern abutment footing has been scoured and is exposed in the attached photos. The rip-rap protection on at least 3 of 4 wingwalls were damaged 2 weeks ago, and a gravel deposit underneath the bridge and downstream has diminished the hydraulic capacity of the waterway opening on the order of 20% to 30%.

Marc Pickering and I spoke today and he will be sending a VTrans inspection team to review the bridge. At this point I am unclear on the extent of the required gravel removal located within the state R.O.W. and the town maintenance easement for the sewer line crossing and the adjacent land owned by Mr. Record. Nevertheless, the wood debris, gravel and sediment deposits need to be removed to restore the bridge hydraulic capacity ASAP. The town is prepared to assist in the gravel removal in the state ROW.

The sewer line repairs should include pouring concrete beneath the exposed encasement and rip-rap bed armoring upstream and downstream. This can be accomplished after removing the trees and large gravel deposit to redirect flow away from the bridge abutment and pipe crossing. The sewer line repairs are immediately adjacent to the bridge repairs and should be accomplished by a single contractor to afford the best outcome for future flood resiliency. I will make myself available for any site visits this week.

- The stream channel has filled-in, and stream flows are presently, or with an impending storm will be, occurring outside of the channel.
- Flood-related erosion has just occurred, damaging property and infrastructure, and further erosion at the site is imminent.

The Emergency Protective Measure(s) will be consistent with the standards in Subchapter 27-704 of the Vermont Stream Alteration Rules and will minimize imminent threats by:

- Removing a limited quantity of sediment and debris and creating a channel for flows that otherwise result in the imminent threats that have or will occur when a defined channel does not exist.
 - Making stream bed or streambank fills necessary to limit further stream channel movement(s) that have or will otherwise result in imminent threats when public access is eliminated or property is severely damaged by erosion.
 - Repairing or replacing infrastructure, the loss of which is or would be an imminent threat to public health and safety.
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DOCUMENTATION

Please be aware that if preliminary authorization is granted, the following information must be received **within 30 days** of EPM completion to finish the process and be granted Final Authorization. An additional 30 days may be granted upon request.

- A copy of the Preliminary Authorization
- Photo documentation of the work
- Map documentation of the location of the work
- Description of the types and quantities of instream materials removed and/or protective fills required

If you have any questions, please contact the Rivers Administrative Assistant, Morgaine Bell, at 802-490-6195 or ANR.WSMDRivers@state.vt.us

—Rt 103 BR 9 SW overview.jpg



— Rt 103 BR 9 west sediment pile.jpg —



— Rt 103 BR 9 SE abutment debris n scour .jpg



— Rt 103 BR 9 sewer line SE abutment.jpg —



— Rt 103 BR 9 SE abutment.jpg —



Attachments:

Rt 103 BR 9 SW overview.jpg	73.2 KB
Rt 103 BR 9 west sediment pile.jpg	78.7 KB
Rt 103 BR 9 SE abutment debris n scour .jpg	70.5 KB
Rt 103 BR 9 sewer line SE abutment.jpg	62.1 KB
Rt 103 BR 9 SE abutment.jpg	65.6 KB

