MEMORANDUM

To: James Reardon, Commissioner of Finance & Management
From: Nathan Lavery, Fiscal Analyst
Date: December 9, 2010
Subject: JFO #2471, #2472

No Joint Fiscal Committee member has requested that the following items be held for review:

JFO #2471 — $65,474 grant from the Federal Emergency Management Agency (FEMA) to the Department of Public Safety. This grant will support hazard mitigation projects in Marlboro. [JFO received 11/9/10]

JFO #2472 — $111,037 grant from the Federal Emergency Management Agency (FEMA) to the Department of Public Safety. This grant will support hazard mitigation projects in Fairfield, Windsor, S. Windsor and Ottauquechee region. [JFO received 11/9/10]

The Governor’s approval may now be considered final. We ask that you inform the Secretary of Administration and your staff of this action.

cc: Thomas Tremblay, Commissioner
MEMORANDUM

To: Joint Fiscal Committee Members
From: Nathan Lavery, Fiscal Analyst
Date: November 19, 2010
Subject: Grant Request

Enclosed please find six (6) request that the Joint Fiscal Office has received from the administration.

JFO #2471 — $65,474 grant from the Federal Emergency Management Agency (FEMA) to the Department of Public Safety. This grant will support hazard mitigation projects in Marlboro. Expedited review of this item has been requested. Joint Fiscal Committee members will be contacted by December 3 with a request to waive the statutory review period and accept this item. [JFO received 11/9/10]

JFO #2472 — $65,474 grant from the Federal Emergency Management Agency (FEMA) to the Department of Public Safety. This grant will support hazard mitigation projects in Fairfield, Windsor, S. Windsor and Ottauquechee region. Expedited review of this item has been requested. Joint Fiscal Committee members will be contacted by December 3 with a request to waive the statutory review period and accept this item. [JFO received 11/9/10]

JFO #2473 — $10,000 grant from the State of Connecticut Department of Agriculture to the Agency of Agriculture, Food & Markets. This grant will support a New England regional study to determine if there is a viable option for connecting local growers and producers to institutional markets. [JFO received 11/17/10]

JFO #2474 — $500,000 grant from the U.S. Department of Justice to the Vermont Department of Education. This grant will support extended education programs for at-risk school aged children outside of routine school hours. [JFO received 11/17/10]

JFO #2475 — $150,000 grant from the U.S. Department of Justice to the Vermont Department of Public Safety. This grant will be used to upgrade Vermont's statewide sex offender registry. [JFO received 11/17/10]

JFO #2476 — $400,000 grant from the U.S. Department of Commerce to the Vermont Department of Economic, Housing and Community Development. This funding will assist Vermont businesses in accessing and developing export sales by supporting international trade shows, international export training, international market development, and client resources.
In accordance with the procedures for processing such requests, we ask you to review the enclosed and notify the Joint Fiscal Office (Nathan Lavery at 802-828-1488; nlavery@leg.state.vt.us) if you have questions or would like an item held for Joint Fiscal Committee review.

cc: James Reardon, Commissioner  
    Thomas Tremblay, Commissioner  
    Roger Allbee, Secretary  
    Armando Vilaseca, Commissioner  
    Tayt Brooks, Commissioner
STATE OF VERMONT
FINANCE & MANAGEMENT GRANT REVIEW FORM

Grant Summary: FEMA assistance for hazard mitigation projects in Fairfield, Windsor, So. Windsor and Ottauquechee region.

Date: 10/27/2010

Department: Department of Public Safety

Legal Title of Grant: Hazard Mitigation Grant Program

Federal Catalog #: 97.039

Grant/Donor Name and Address: US Dept of Homeland Security/FEMA Region I, Boston, Ma.


Grant/Donation $111,037

<table>
<thead>
<tr>
<th>SFY 1</th>
<th>SFY 2</th>
<th>SFY 3</th>
<th>Total</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>$111,037</td>
<td>$</td>
<td>$</td>
<td>$111,037</td>
<td>75% federal funding</td>
</tr>
</tbody>
</table>

Grant Amount: $111,037

Position Information: # Positions Explanation/Comments

0

Additional Comments: 25% local match of $37,011 for total project cost of $148,048.

Department of Finance & Management

Secretary of Administration

Sent To Joint Fiscal Office

Date

RECEIVED
NOV 09 2010

JOINT FISCAL OFFICE
To: Joint Fiscal Office, Montpelier
From: Barbara Farr, Director
Subject: Seeking approval for receipt of federal funds
Date: October 14, 2010

Vermont Emergency Management is respectfully requesting an expedited review and approval for three projects (DR 1784 — Town of Marlboro, and DR 1816 — Two Rivers Ottauquechee Regional Commission, Town of Windsor, Town of Fairfield and Southern Windsor County Regional Planning Commission) for local communities being funded by FEMA’s Hazard Mitigation Grant Program (HMGP). This program is awarded by FEMA to local communities in the aftermath of a federally declared disaster. These hazard mitigation projects are intended for our communities to prevent future damage from natural hazards such as catastrophic flooding and are connected with federally declared disasters DR 1784 (August 15, 2008) and DR 1816 (January 14, 2009). FEMA funding was released only recently due to the often contentious Congressional debate concerning federal expenditures and revenue sources. Vermont has been waiting at least six months for the funds to be released; one community, Marlboro, has been waiting even longer. Extensive delays in the release of FEMA funding have already had a negative impact on some of the communities involved in these approved mitigation projects.

We would greatly appreciate an expedited review by the Joint Fiscal Office so that these mitigation projects can be implemented in our communities as soon as possible. Thank you very much for your consideration in this regard. For additional information, please contact me or the state hazard mitigation officer. Ray Doherty, at (802) 241-5258 or via e-mail at rdoherty@dps.state.vt.us
STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE

BASIC GRANT INFORMATION

1. Agency: Public Safety
2. Department: Public Safety
3. Program: Emergency Management
4. Legal Title of Grant: Hazard Mitigation Grant Program
5. Federal Catalog #: 97.039
6. Grant/Donor Name and Address: U.S. Dept. of Homeland Security/FEMA Region I
99 High St, Sixth Floor
Boston, MA 02110-2132
8. Purpose of Grant: The Hazard Mitigation Grant Program provides States and local governments financial assistance to implement measures that will permanently reduce or eliminate future damages and losses from natural hazards through safer building practices and improving existing structures and supporting infrastructure.

Impact on existing program if grant is not Accepted:
The severe storms that occurred December 2008 resulted in Vermont cities and towns suffering ice storms. The President declared this a federal disaster (1816) and made federal aid available to mitigate future reoccurring flood problems.

10. BUDGET INFORMATION

<table>
<thead>
<tr>
<th>Expenditures:</th>
<th>SFY 1 FY 2011</th>
<th>SFY 2 FY 2012</th>
<th>SFY 3 FY 2013</th>
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<tbody>
<tr>
<td>Personal Services</td>
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<tr>
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<td>Grants</td>
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<th>Revenues:</th>
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<tr>
<td>Cash</td>
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<td>$</td>
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<tr>
<td>In-Kind</td>
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<td>$</td>
<td>$</td>
<td></td>
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<tr>
<td>Federal Funds:</td>
<td>$</td>
<td>$</td>
<td>$</td>
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<tr>
<td>(Direct Costs)</td>
<td>$111,037</td>
<td>$</td>
<td>$</td>
<td></td>
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<tr>
<td>(Statewide Indirect)</td>
<td>$</td>
<td>$</td>
<td>$</td>
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<tr>
<td>(Departmental Indirect)</td>
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<tr>
<td>Other Funds:</td>
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<td>$</td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Grant (source Local Match)</td>
<td>$37,011</td>
<td>$</td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>$148,048</td>
<td>$</td>
<td>$</td>
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</tr>
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</table>

Appropriation No: 2140030000 Amount: $111,037

Department of Finance & Management
Version 1.4 _17/15/08
Page 1 of 2
### PERSONAL SERVICE INFORMATION

11. Will monies from this grant be used to fund one or more Personal Service Contracts?  
   - [ ] Yes  
   - [x] No  

   If "Yes", appointing authority must initial here to indicate intent to follow current competitive bidding process/policy.

   Appointing Authority Name:  
   Agreed by:  
   (initial)

12. Limited Service Position Information:

<table>
<thead>
<tr>
<th># Positions</th>
<th>Title</th>
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</table>

   Total Positions:

12a. Equipment and space for these positions:  
   - [ ] Is presently available.  
   - [ ] Can be obtained with available funds.

### AUTHORIZATION AGENCY/DEPARTMENT

I/we certify that no funds beyond basic application preparation and filing costs have been expended or committed in anticipation of Joint Fiscal Committee approval of this grant, unless previous notification was made on Form AA-1PN (if applicable):

<table>
<thead>
<tr>
<th>Signature:</th>
<th>Date:</th>
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<tr>
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</table>

Title: Commissioner  
10/22/10

<table>
<thead>
<tr>
<th>Signature:</th>
<th>Date:</th>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Title:

### ACTION BY GOVERNOR

Check One Box:

- [x] Accepted  
- [ ] Rejected  

(Governor's signature)  
Date: 1/3/10

### SECRETARY OF ADMINISTRATION

Check One Box:

- [ ] Request to JFO  
- [ ] Information to JFO  

(Secretary’s signature or designee)  
Date: 11/3/10

### DOCUMENTATION REQUIRED

Required GRANT Documentation:

- [ ] Request Memo  
- [ ] Dept. project approval (if applicable)  
- [ ] Notice of Award  
- [ ] Grant Agreement  
- [ ] Grant Budget  
- [ ] Notice of Donation (if any)  
- [ ] Grant (Project) Timeline (if applicable)  
- [ ] Request for Extension (if applicable)  
- [ ] Form AA-1PN attached (if applicable)

End Form AA-1
Project Review and Conditions Status


**Project Name/Number:** FEMA HMGP- 1816 – Ryan Road Stabilization, Fairfield, VT

**Project Location:** Ryan Road is adjacent to VT route 36 and borders Black Creek:  
Latitude: 44.811 Longitude: -72.909

**Project Description:** To mitigate the erosion of Ryan Road caused by the Black Creek flooding and eroding the road, the Town proposes to stabilize the roadbed which would include re-grading and re-shaping the highway, constructing a stone-fill, geotextile-wrapped road shoulder on the downstream side of the road, applying bituminous concrete surface to the road and erecting delineators on the road edges for safety during high water if emergency vehicles need to pass.

**Environmental Review Project Conditions**

General comments: N/A

1. If ground disturbing activities occur during implementation, the applicant will monitor excavation activity, and if any artifacts or human remains are found during the excavation process all work is to cease and the applicant will notify FEMA, Grantee, and SHPO/THPO.

2. The applicant must follow all applicable local, state, and federal laws, regulations, and requirements for the abatement and disposal of lead, asbestos, and other routinely encountered hazardous substances. If there is an unusual material encountered or there is an extraordinary amount of lead, asbestos, or other routinely encountered material the applicant must contact the Grantee and the Grantee must contact FEMA. The applicant must also contact the relevant agency with authority for regulation of the material.

3. If deviations from the proposed scope of work result in design changes, the need for additional ground disturbance, additional removal of vegetation, or result in any other unanticipated changes to the physical environment, the Grantee must contact FEMA, and a re-evaluation under NEPA and other applicable environmental laws will be conducted by FEMA.

**Other Required Project Specific Conditions**

1. The applicant is required to obtain any applicable permits with the New Hampshire Department of Environmental Protection and the U.S. Army Corps of Engineers if this project is located in a wetland or has an effect on a wetland. All
conditions of any permit acquired become conditions of this grant, and a copy of such permit(s) should be forwarded to FEMA.

2. The culvert must be constructed in such a way as to not inhibit the movement of aquatic organisms, particularly fish. The culvert invert must be placed approximately 6” in the streambed or an arch or bottomless structure must be used.

3. As long as the appropriate soil erosion/siltation control measures and the best management practices for roads and culverts (e.g. placing culvert inverts at or slightly below grade in the bed of the stream to accommodate fish passage, working during low flow summer periods, etc.) are utilized, harm to fish and wildlife will be minimized.

4. The applicant must seed, mulch, and replant any disturbed ground with native shrubs and vegetation. A special effort shall be made to plant native vegetation at higher bank elevations.

5. The applicant must ensure that best managing practices for roads and culverts are utilized, and installation of erosion control. Construction activities that result in disturbed ground must be protected against erosion into the stream. The Town must follow the Clean Water Act’s: “Best Management Practices, BMP” for erosion control during construction of this project. This includes, the applicant applying for all local, state, and federal permits and easements necessary to complete the project and obtaining these permits prior to commencement of any work. Any conditions of these permits become conditions of this grant, project, and environmental review. In accordance with FEMA Guidelines, applicants are required to comply with the federal law provisions of: the Water Pollution Control Act, as amended; Section 10 of the Rivers and Harbors Act; and Section 404 of the Clean Water Act, requirements regarding acquisition of appropriate permits or determinations from the U.S. Army Corps of Engineers (USACE) for projects funded by FEMA. All correspondence (including copies of any permits issued by USACE) regarding these determinations should be coordinated with and copies forwarded to FEMA. The applicant must follow all applicable local, state, and federal laws, regulations, and requirements and/or obtain proper local, state, and federal permit concerning this project. Any conditions of this process or these regulations, laws, and policies become conditions of this grant, project, and environmental review.

Monitoring Requirements:
Quarterly Reports and final inspection of scope of work and accounting records are required.

1. As long as the appropriate soil erosion/siltation control measures and the best management practices for roads and culverts (e.g. placing culvert inverts at or
slightly below grade in the bed of the stream to accommodate fish passage, working during low flow summer periods, etc.) are utilized, harm to fish and wildlife will be minimized.

2. The applicant must seed, mulch, and replant any disturbed ground with native shrubs and vegetation. A special effort shall be made to plant native vegetation at higher bank elevations.

3. Commence work during low flow period.

4. Reroute or stop the flow of water into the project site.

5. If necessary, dewater the project site.

6. Excavate unsuitable wash material from site.

7. Remove erosion control measures after the construction area has been stabilized.

Funding
Total Cost of Project: $ 67,485
Federal Share. $ 50,614
Applicant Share $ 16,871

All permits must be obtained and forwarded to FEMA before any work begins.

- Any deviation from this scope of work, conditions or funding must be approved in advance, in writing.

- Applicants must comply with HMGP requirements, grants management procedures in 44 CFR Part 13, the grant agreement, and applicable Federal State, and lows and standards.
September 27, 2010

Ms. Barbara Farr, Director  
Vermont Emergency Management Agency  
Dept of Public Safety  
103 South Main Street  
Waterbury, VT 05671-2101

SUBJECT: FEMA-DR-1010-VT  
Hazard Mitigation Grant Program Project #6R  
Ryan Road Stabilization Project, Town of Fairfield, VT

Dear Ms. Farr:

Enclosed please find the Regional Environmental Officer's Record of Environmental Consideration and the Allocation, Obligation, Financial Activity and Project Management reports for the following Hazard Mitigation Grant Program project:

<table>
<thead>
<tr>
<th>Project ID</th>
<th>Project Name</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1816-6R</td>
<td>Ryan Road Stabilization Project</td>
<td>$ 50,614</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>$ 50,614</td>
</tr>
</tbody>
</table>

If you have any questions, please do not hesitate to call Judith Maloney at our Hazard Mitigation Office at (617) 832-4797.

Sincerely,

[Signature]

Kevin M. Meth, Director  
Mitigation Division

Attachment
Record of Environmental Consideration


Project Name/Number: FEMA HMGP-1816—Ryan Road Stabilization, Fairfield, VT

Project Location: Ryan Road is adjacent to VT route 36 and borders Black Creek:
Latitude: 44.811 Longitude: -72.909

Project Description: To mitigate the erosion of Ryan Road caused by the Black Creek flooding and eroding the road, the Town proposes to stabilize the roadbed which would include re-grading and re-shaping the highway, constructing a stone-fill, geotextile-wrapped road shoulder on the downstream side of the road, applying bituminous concrete surface to the road and erecting delineators on the road edges for safety during high water if emergency vehicles need to pass.

Documentation Requirements

☐ No Documentation Required (Review Concluded)

☐ (Short version) All consultation and agreements implemented to comply with the National Historic Preservation Act, Endangered Species Act, and Executive Orders 11988, 11990 and 12898 are completed and no other laws apply. (Review Concluded)

☒ (Long version) All applicable laws and executive orders were reviewed. Additional information for compliance is attached to this REC.

National Environmental Policy Act (NEPA) Determination

☐ Statutorily excluded from NEPA review. (Review Concluded)
☒ Categorical Exclusion - Category (xv & xvi) Type Single Project
☐ No Extraordinary Circumstances exist.
☐ Are project conditions required? ☒ Yes (see section V) ☐ No (Review Concluded)
☐ Extraordinary Circumstances exist (See Section IV).
☐ Extraordinary Circumstances mitigated. (See Section IV comments)
☐ Are project conditions required? ☐ Yes (see section V) ☒ No (Review Concluded)
☐ Environmental Assessment required. See FONSI for determination, conditions and approval.
☐ Environmental Assessment required. See FONSI for determination, conditions and approval.

Comments: This is a project within the area of previously disturbed ground.

Correspondence/Consultation/References: Project Description; Based on information provided by the grantee, the scope of work for this project qualifies as a Categorical Exclusion (CATEX) under 44 CFR Part 10.8 (d)(2)(xv & xvi)

Reviewer and Approvals

FEMA Environmental Reviewer
Name: Judith A. Maloney
Signature: [Signature]
Date: 2-16-10

FEMA Regional Environmental Officer or delegated approving official
Record of Environmental Consideration 1 03/05/07
I. Compliance Review for Environmental Laws (other than NEPA)

A. National Historic Preservation Act

☐ Not type of activity with potential to affect historic properties. **(Review Concluded)**

☒ Applicable executed Programmatic Agreement. Otherwise, conduct standard Section 106 review.

☐ Activity meets Programmatic Allowance # B.I.B; III.A&B

Are project conditions required? ☐ Yes (see section V) ☒ No **(Review Concluded)**

HISTORIC BUILDINGS AND STRUCTURES

☒ No historic properties 50 years or older in project area. **(Review Concluded)**

☐ Building or structure 50 years or older in project area and activity not exempt from review.

☐ Determination of No Historic Properties Affected (FEMA finding/SHPO/THPO concurrence on file)

Are project conditions required? ☐ Yes (see section V) ☒ No **(Review Concluded)**

☐ Determination of Historic Properties Affected (FEMA finding/SHPO/THPO concurrence on file)

☐ Property a National Historic Landmark and National Park Service was provided early notification during the consultation process. If not, explain in comments

☐ No Adverse Effect Determination (FEMA finding/SHPO/THPO concurrence on file).

Are project conditions required? ☐ Yes (see section V) ☒ No **(Review Concluded)**

☐ Adverse Effect Determination (FEMA finding/SHPO/THPO concurrence on file)

☐ Resolution of Adverse Effect completed. (MOA on file)

Are project conditions required ☒ Yes (see section V) ☐ No **(Review Concluded)**

ARCHEOLOGICAL RESOURCES

☒ Project affects only previously disturbed ground. **(Review Concluded)**

☐ Project affects undisturbed ground.

☐ Project area has no potential for presence of archeological resources

☐ Determination of no historic properties affected (FEMA finding/SHPO/THPO concurrence or consultation on file). **(Review Concluded)**

☐ Project area has potential for presence of archeological resources

☐ Determination of no historic properties affected (FEMA finding/SHPO/THPO concurrence on file)

Are project conditions required ☐ Yes (see section V) ☒ No **(Review Concluded)**

☐ Determination of historic properties affected

☐ NR eligible resources not present (FEMA finding/SHPO/THPO concurrence on file).

Are project conditions required ☒ Yes (see section V) ☐ No **(Review Concluded)**

☐ NR eligible resources present in project area. (FEMA finding/SHPO/THPO concurrence on file)

☐ No Adverse Effect Determination. (FEMA finding/SHPO/THPO concurrence on file)

Are project conditions required ☐ Yes (see section V) ☒ No **(Review Concluded)**

☐ Adverse Effect Determination. (FEMA finding/SHPO/THPO concurrence on file)

☐ Resolution of Adverse Effect completed. (MOA on file)

Are project conditions required ☒ Yes (see section V) ☐ No **(Review Concluded)**

Comments: Project meets programmatic agreement allowances. No consultation is required.

Correspondence/Consultation/References: FEMA, VEM. SHPO Programmatic Agreement dated 2002.

B. Endangered Species Act

☒ No listed species and/or designated critical habitat present in the action area. **(Review Concluded)**

☐ Listed species and/or designated critical habitat present in the action area.

☐ No effect to species or designated critical habitat. (See comments for justification) **(Review Concluded)**

Record of Environmental Consideration 2 03/05/07
Reviewer Name: Judith A. ...oney  Applicant: Town of Fairfield, VT
Disaster/Emergency/Program/Project Title: FEMA HMGP- 1816- Ryan Road Stabilization

☐ May affect, but not likely to adversely affect species or designated critical habitat (FEMA determination/USFWS/NMFS concurrence on file) (Review Concluded)
☐ Likely to adversely affect species or designated critical habitat
☐ Formal consultation concluded. (Biological Assessment and Biological Opinion on file)
Are project conditions required? ☐ YES (see section V) ☐ NO (Review Concluded)

Comments: No Listed Species and/or designated critical habitat present in areas affected directly or indirectly by the federal action. “No species” letter from USFWS dated 4 Jan 2010.
Correspondence/Consultation/References: U.S. Fish and Wildlife Service Endangered Species web site and VT Fish and Game Nongame and Natural Heritage Program web site.

C. Coastal Barrier Resources Act
☒ Project is not located in Coastal Barriers Resource System or Otherwise Protected Area.
☒ Project does not affect a coastal barrier within the COBRA System (regardless of in or out) (Review Concluded)
☐ Project is located in a coastal barrier system and/or affects a coastal barrier. (FEMA determination/USFWS consultation on file)
☐ Proposed action an exception under Section 3505.a.6? (Review Concluded)
☐ Proposed action not excepted under Section 3505.a.6.
Are project conditions required? ☐ YES (see section V) ☐ NO (Review Concluded)

Comments: This project is not in or near a coastal area.
Correspondence/Consultation/References: Coastal Barrier Resources Act, N.E. maps

D. Clean Water Act
☐ Project site located outside of and would not affect any waters of the U.S. (Review Concluded)
☒ Project site located in or would affect waters, including wetlands, of the U.S.
☐ Project exempted as in kind replacement or other exemption. (Review Concluded)
☒ Project may require Section 404/401/10 permit, including qualification under Nationwide Permits.
Are project conditions required? ☒ YES (see section V) ☐ NO (Review Concluded)

Comments: This project may require permits from appropriate local, State, and Federal agencies. Additionally, construction activities that result in disturbed ground must be protected against erosion into the stream. The Town must follow the Clean Water Act, “Best Management Practices BMP”. The Town must contact the U.S. Army Corps of Engineers to inquire if a permit is required. The Town will need to obtain all necessary permits from relevant state agencies after the project specifications have been completed and before work begins.
Correspondence / Consultation / References: Section 404 of the Clean Water Act, (Re: determinations and acquisition of appropriate permits), and local Conservation Commission regulations.

E. Coastal Zone Management Act
☐ Project does not affect a coastal zone area (regardless of in or out)- (Review concluded)
☒ Project is not located in a coastal zone area- (Review concluded)
☐ Project is located in a coastal zone area and/or affects the coastal zone
☐ State administering agency does not require consistency review. (Review Concluded).
☐ State administering agency requires consistency review.
Are project conditions required? ☐ YES (see section V) ☐ NO (Review Concluded)

Comments: N/A - this project is not in or near a coastal area
Correspondence/Consultation/References: Google Earth search/map of Vermont

F. Fish and Wildlife Coordination Act
☒ Project is not located in or affects a waterway/body of water. (Review Concluded)
☐ Project affects, controls or modifies a waterway/body of water.
☐ Coordination with USFWS conducted
☐ No Recommendations offered by USFWS. (Review Concluded)
Reviewer Name: Judith A. Ioney  
Applicant: Town of Fairfield, VT
Disaster/Emergency/Program/Project Title: FEMA HMGP- 1816- Ryan Road Stabilization

☐ Recommendations provided by USFWS.
Are project conditions required? ☐ YES (see section V) ☐ NO (Review Concluded)

Comments: No Listed Species and/or designated critical habitat present in areas affected directly or indirectly by the federal action. ‘No species’ letter from USFWS dated 4 Jan 2010.
Correspondence/Consultation/References: U.S. Fish and Wildlife Service Endangered Species web site and VT Fish and Game Nongame and Natural Heritage Program web site.

G. Clean Air Act
☒ Project will not result in permanent air emissions. (Review Concluded)
☐ Project is located in an attainment area. (Review Concluded)
☐ Project is located in a non-attainment area.
  Are project conditions required? ☐ YES (see section V) ☐ NO (Review Concluded)

Comments: Any emissions from construction equipment will be temporary in nature. Only minimal, temporary dust and increased emissions from construction vehicles caused by a routine construction project might occur.
Correspondence/Consultation/References: project description

H. Farmlands Protection Policy Act
☒ Project does not affect prime or unique farmland. (Review Concluded)
☐ Project causes unnecessary or irreversible conversion of prime or unique farmland.
  Coordination with Natural Resource Conservation Commission required.
  Are project conditions required? ☐ YES (see section V) ☐ NO (Review Concluded)

Comments: No commitment of farmlands. No intrusion into existing farmland will occur.
Correspondence/Consultation/References: See project description.

I. Migratory Bird Treaty Act
☐ Project not located within a flyway zone. (Review Concluded)
☒ Project located within a flyway zone.
  Project does not have potential to take migratory birds. (Review Concluded)
  Project has potential to take migratory birds.
  Contact made with USFWS
  Are project conditions required? ☐ YES (see section V) ☐ NO (Review Concluded)

Comments: N/A This project will not result in the migratory taking of birds.
Correspondence/Consultation/References: The Migratory Bird Treaty Act and Executive Order 13186, project description

J. Magnuson-Stevens Fishery Conservation and Management Act
☒ Project not located in or near Essential Fish Habitat. (Review Concluded)
☐ Project located in or near Essential Fish Habitat.
  Project does not adversely affect Essential Fish Habitat. (Review Concluded)
  Project adversely affects Essential Fish Habitat (FEMA determination/USFWS/NMFS concurrence on file)
    NOAA Fisheries provided no recommendation(s) (Review Concluded).
    NOAA Fisheries provided recommendation(s)
    Written reply to NOAA Fisheries recommendations completed.
  Are project conditions required? ☐ YES (see section V) ☐ NO (Review Concluded)

Record of Environmental Consideration 4
03/05/07
Reviewer Name: Judith A. Mone
Applicant: Town of Fairfield, VT
Disaster/Emergency/Program/Project Title: FEMA HMGP-1816-Ryan Road Stabilization

Comments: No Listed Species and/or designated critical habitat resent in areas affected directly or indirectly by the federal action. “No species” letter from USFWS dated 4 Jan 2010.

Correspondence/Consultation/References: U.S. Fish and Wildlife Service Endangered Species web site and VT Fish and Game Nongame and Natural Heritage Program web site.

K. Wild and Scenic Rivers Act
- Project is not along and does not affect a Wild or Scenic River - (Review Concluded)
- Project is along or affects Wild or Scenic River
  - Project adversely affects WSR as determined by NPS/USFS. FEMA cannot fund the action.
    (NPS/USFS/USFWS/BLM consultation on file)
  - Project does not adversely affect WSR. (NPS/USFS/USFWS/BLM consultation on file)
Are project conditions required? YES (see section V) NO (Review Concluded)

Comments: N/A – No designated river is impacted by this proposal.
Correspondence/Consultation/References: Review of Web site: http://www.rivers.gov/wildriverslist.html#vt

L. Other Relevant Laws and Environmental Regulations
Identify relevant law or regulations, resolution and any consultation/references: N/A

II. Compliance Review for Executive Orders

A. E.O. 11988 - Floodplains
- Located in Floodplain or Effects on Floodplains/Flood levels - (Review Concluded)
- No adverse effect on floodplain or can be adversely affected by the floodplain. (Review Concluded), Beneficial Effect on Floodplain Occupancy/Values (Review Concluded), Possible adverse effects associated with investment in floodplain, occupancy or modification of floodplain environment
  - 8 Step Process Complete - documentation on file
  - Are project conditions required? YES (see section V) NO (Review Concluded)

Comments: Project is located in an area of the 100-year flood with base elevations and flood hazard factors not determined.
Correspondence/Consultation/References: FIRM 500063A 9/27/1985 Zone A

B. E.O. 11990 - Wetlands
- Located in Wetland or effects Wetland(s) - (Review Concluded)
- Beneficial Effect on Wetland - (Review Concluded)
- Possible adverse effect associated with constructing in or near wetland
  - Review completed as part of floodplain review
  - 8 Step Process Complete - documentation on file
  - Are project conditions required? YES (see section V) NO (Review Concluded)

Comments: The project does not have an adverse impact on the wetland.
Correspondence/Consultation/References: FIRM 500063A 9/27/1985 Zone A

C. E.O. 12898 - Environmental Justice for Low Income and Minority Populations
- No Low income or minority population in, near or affected by the project - (Review Concluded)
- Low income or minority population in or near project area
  - No disproportionately high and adverse impact on low income or minority population- (Review Concluded)
  - Disproportionately high or adverse effects on low income or minority population
    - Are project conditions required? YES (see section V) NO (Review Concluded)

Record of Environmental Consideration 5 03/05/07
III. Other Environmental Issues

Identify other potential environmental concerns in the comment box not clearly falling under a law or executive order (see environmental concerns scoping checklist for guidance).

Comments: Correspondence/Consultation/References: N/A

IV. Extraordinary Circumstances

Based on the review of compliance with other environmental laws and Executive Orders, and in consideration of other environmental factors, review the project for extraordinary circumstances.

* A “Yes” under any circumstance may require an Environmental Assessment (EA) with the exception of (ii) which should be applied in conjunction with controversy on an environmental issue. If the circumstance can be mitigated, please explain in comments. If no, leave blank.

Yes

☐ (i) Greater scope or size than normally experienced for a particular category of action

☐ (ii) Actions with a high level of public controversy

☐ (iii) Potential for degradation, even though slight, of already existing poor environmental conditions;

☐ (iv) Employment of unproven technology with potential adverse effects or actions involving unique or unknown environmental risks;

☐ (v) Presence of endangered or threatened species or their critical habitat, or archaeological, cultural, historical or other protected resources;

☐ (vi) Presence of hazardous or toxic substances at levels which exceed Federal, state or local regulations or standards requiring action or attention;

☐ (vii) Actions with the potential to affect special status areas adversely or other critical resources such as wetlands, coastal zones, wildlife refuge and wilderness areas, wild and scenic rivers, sole or principal drinking water aquifers;

☐ (viii) Potential for adverse effects on health or safety; and

☐ (ix) Potential to violate a federal, state, local or tribal law or requirement imposed for the protection of the environment.

☐ (x) Potential for significant cumulative impact when the proposed action is combined with other past, present and reasonably foreseeable future actions, even though the impacts of the proposed action may not be significant by themselves.

Comments:

V. Environmental Review Project Conditions

General comments: N/A

Record of Environmental Consideration 6 03/05/07
1. If ground disturbing activities occur during implementation, the applicant will monitor excavation activity, and if any artifacts or human remains are found during the excavation process all work is to cease and the applicant will notify FEMA, Grantee, and SHPO/THPO.

2. The applicant must follow all applicable local, state, and federal laws, regulations, and requirements for the abatement and disposal of lead, asbestos, and other routinely encountered hazardous substances. If there is an unusual material encountered or there is an extraordinary amount of lead, asbestos, or other routinely encountered material the applicant must contact the Grantee and the Grantee must contact FEMA. The applicant must also contact the relevant agency with authority for regulation of the material.

3. If deviations from the proposed scope of work result in design changes, the need for additional ground disturbance, additional removal of vegetation, or result in any other unanticipated changes to the physical environment, the Grantee must contact FEMA, and a re-evaluation under NEPA and other applicable environmental laws will be conducted by FEMA.

Other Required Project Specific Conditions

1. The applicant is required to obtain any applicable permits with the New Hampshire Department of Environmental Protection and the U.S. Army Corps of Engineers if this project is located in a wetland or has an effect on a wetland. All conditions of any permit acquired become conditions of this grant, and a copy of such permit(s) should be forwarded to FEMA.

2. The culvert must be constructed in such a way as to not inhibit the movement of aquatic organisms, particularly fish. The culvert invert must be placed approximately 6" in the streambed or an arch or bottomless structure must be used.

3. As long as the appropriate soil erosion/siltation control measures and the best management practices for roads and culverts (e.g. placing culvert inverts at or slightly below grade in the bed of the stream to accommodate fish passage, working during low flow summer periods, etc.) are utilized, harm to fish and wildlife will be minimized.

4. The applicant must seed, mulch, and replant any disturbed ground with native shrubs and vegetation. A special effort shall be made to plant native vegetation at higher bank elevations.

5. The applicant must ensure that best managing practices for roads and culverts are utilized, and installation of erosion control. Construction activities that result in disturbed ground must be protected against erosion into the stream. The Town must follow the Clean Water Act's: "Best Management Practices, BMP" for erosion control during construction of this project. This includes, the applicant applying for all local, state, and federal permits and easements necessary to complete the project and obtaining these permits prior to commencement of any work. Any conditions of these permits become conditions of this grant, project, and environmental review. In accordance with FEMA Guidelines, applicants are required to comply with the federal law provisions of: the Water Pollution Control Act, as amended; Section 10 of the Rivers and Harbors Act; and Section 404 of the Clean Water Act, requirements regarding acquisition of appropriate permits or determinations from the U.S. Army Corps of Engineers (USACE) for projects funded by FEMA. All correspondence (including copies of any permits issued by USACE) regarding these determinations should be coordinated with and copies forwarded to FEMA. The applicant must follow all applicable local, state, and federal laws, regulations, and requirements and/or obtain proper local, state, and federal permit concerning this project. Any conditions of this process or these regulations, laws, and policies become conditions of this grant, project, and environmental review.

Monitoring Requirements:
Quarterly Reports and final inspection of scope of work and accounting records are required.

Record of Environmental Consideration 7 03/05/07
September 21, 2010

Ms. Barbara Farr, Director
Vermont Emergency Management Agency
Dept of Public Safety
103 South Main Street
Waterbury, VT 05671-2101

SUBJECT: FEMA-DR-1816-VT
   Hazard Mitigation Grant Program Project #5F
   Vermont Emergency Management South Windsor RPC Outreach Project

Dear Ms. Farr:

Enclosed please find the Regional Environmental Officer’s Record of Environmental Consideration and the Allocation, Obligation, Financial Activity and Project Management reports for the following Hazard Mitigation Grant Program project:

1816-5F   Vermont Emergency Management
          Vermont Emergency Management South Windsor RPC Outreach Project   $4,688

Total:                                             $4,688

If you have any questions, please do not hesitate to call Judith Maloney at our Hazard Mitigation Office at (617) 832-4797.

Sincerely,

[Signature]
Kevin M. Merli, Director
Mitigation Division

Attachment
Project Review and Conditions Status

**Project Name/Number:** FEMA-HMGP-1816 Vermont Emergency Management Southern Windsor Regional Planning Commission Outreach Project, VT

**Project Location:** Statewide

**Project Description:** The Vermont Emergency Management Southern Windsor Regional Planning Commission, VT intends to provide mitigation outreach materials chosen and developed collaboratively with the State Hazard Mitigation Officer along with preparedness materials to selected audiences. Detailed documentation of the outreach materials and audiences will be provided before the grant is closed.

Monitoring Requirements:
Quarterly Reports and final inspection of scope of work and accounting records are required.

**Funding**

- **Total Cost of Project:** $ 6,250
- **Federal Share** $ 4,688
- **Applicant Share** $ 1,562

Any deviation from this scope of work, conditions or funding must be approved in advance, in writing.

- Applicants must comply with HMGP requirements, grants management procedures in 44 CFR Part 13, the grant agreement, and applicable Federal State, and laws and standards.
ABBREVIATED RECORD OF ENVIRONMENTAL CONSIDERATION


Project Name/Number: FEMA-HMGP-1816 Southern Windsor Regional Planning Commission Project, VT

Project Location: Statewide

Project Description: The Vermont Emergency Management Southern Windsor Regional Planning Commission, VT intends to provide mitigation outreach materials chosen and developed collaboratively with the State Hazard Mitigation Officer along with preparedness materials to selected audiences. Detailed documentation of the outreach materials and audiences will be provided before the grant is closed.

Project Conditions & Other Required Project Specific Conditions

1. The applicant must follow all applicable local, state, and federal laws, regulations, and requirements for the contracting of consultants and or contractors.

2. The applicant must follow all applicable local, state, and federal laws, regulations, and requirements for the release of public information. The applicant must also contact the State NFIP Coordinator for regulation of the material.

3. If deviations from the proposed scope of work result in design changes, the need for additional or result in any other unanticipated changes to the scope of work, the Grantee must contact FEMA, and a re-evaluation of the project will be discussed.

HISTORIC BUILDINGS AND STRUCTURES

[X] No historic properties that are listed or 45/50 years or older in project area. (Review Concluded)

☐ Building or structure listed or 45/50 years or older in project area and activity not exempt from review.

☐ Determination of No Historic Properties Affected (FEMA finding/SHPO/THPO concurrence on file)

Are project conditions required?  ☐ Yes (see section V)  ☐ No (Review Concluded)

☐ Determination of Historic Properties Affected (FEMA finding/SHPO/THPO concurrence on file)

☐ Property a National Historic Landmark and National Park Service was provided early notification during the consultation process. If not, explain in comments

☐ No Adverse Effect Determination (FEMA finding/SHPO/THPO concurrence on file).

Are project conditions required?  ☐ Yes (see section V)  ☐ No (Review Concluded)

☐ Adverse Effect Determination (FEMA finding/SHPO/THPO concurrence on file)

☐ Resolution of Adverse Effect completed. (MOA on file)
ARCHEOLOGICAL RESOURCES

☐ Project affects only previously disturbed ground. (Review Concluded)
☐ Project affects undisturbed ground.
☐ Project area has no potential for presence of archeological resources
  ☐ Determination of no historic properties affected (FEMA finding/SHPO/THPO concurrence on file). (Review Concluded)
☐ Project area has potential for presence of archeological resources
  ☐ Determination of no historic properties affected (FEMA finding/SHPO/THPO concurrence on file)
  Are project conditions required ☐ Yes (see section V) ☐ No (Review Concluded)
☐ Determination of historic properties affected
  ☐ NR eligible resources not present (FEMA finding/SHPO/THPO concurrence on file).
  Are project conditions required ☐ Yes (see section V) ☐ No (Review Concluded)
☐ NR eligible resources present in project area. (FEMA finding/SHPO/THPO concurrence on file)
  ☐ No Adverse Effect Determination. (FEMA finding/SHPO/THPO concurrence on file)
  Are project conditions required? ☐ Yes (see section V) ☐ No (Review Concluded)
☐ Adverse Effect Determination. (FEMA finding/SHPO/THPO concurrence on file)
  ☐ Resolution of Adverse Effect completed. (MOA on file)
  Are project conditions required? ☐ Yes (see section V) ☐ No (Review Concluded)

Comments: A determination of No Historic Properties Affected is made under the terms of the Vermont Programmatic Agreement, Appendix B, Section XII. B & E. No consultation with SHPO is required.

Correspondence/Consultation/References: VT Programmatic Agreement 8.7.02.

THREATENED AND ENDANGERED SPECIES

☐ No listed species and/or designated critical habitat present in areas affected directly or indirectly by the Federal action. (Review Concluded)
☐ Listed species and/or designated critical habitat present in the areas affected directly or indirectly by the Federal action.
  ☐ No effect to species or designated critical habitat. (See comments for justification)
  Are project conditions required? ☐ Yes (see section V) ☐ No (Review Concluded)
  ☐ May affect, but not likely to adversely affect species or designated critical habitat (FEMA determination/USFWS/NMFS concurrence on file) (Review Concluded)
Are project conditions required?  □ Yes (see section V)  □ No (Review Concluded)
□ Likely to adversely affect species or designated critical habitat
□ Formal consultation concluded. (Biological Assessment and Biological Opinion on file)

Are project conditions required?  □ YES (see section V)  □ NO (Review Concluded)

Comments: No threatened or endangered species or critical habitat will be affected.
Correspondence/Consultation/References: Project description

E.O. 11988 – FLOODPLAINS

☐ No Effect on Floodplains/Flood levels and project outside Floodplain - (Review Concluded)
☐ Located in Floodplain or Effects on Floodplains/Flood levels
☐ No adverse effect on floodplain and not adversely affected by the floodplain. (Review Concluded)

Are project conditions required?  □ Yes (see section V)  □ No (Review Concluded)
□ Beneficial Effect on Floodplain Occupancy/Values (Review Concluded).
□ Possible adverse effects associated with investment in floodplain, occupancy or modification of floodplain environment
□ 8 Step Process Complete - documentation on file

Are project conditions required?  □ YES (see section V)  □ NO (Review Concluded)

Comments: Project will not affect any floodplain values.
Correspondence/Consultation/References: Project description

E.O. 11990 – WETLANDS

☐ No Effects on Wetland(s) and project located outside Wetland(s) - (Review Concluded)
☐ Located in Wetland or Effects on Wetland(s)
□ Beneficial Effect on Wetland - (Review Concluded)
□ Possible adverse effect associated with constructing in or near wetland
□ Review completed as part of floodplain review
□ 8 Step Process Complete - documentation on file

Are project conditions required?  □ YES (see section V)  □ NO (Review Concluded)

Comments: Project will not have an adverse effect any wetland values.
Correspondence/Consultation/References: Project description

E.O. 12898 - Environmental Justice for Low Income and Minority Populations

☐ No Low income or minority population in, near or affected by the project - (Review Concluded)
☐ Low income or minority population in or near project area
□ No disproportionately high and adverse impact on low income or minority population (Review Concluded)
□ Disproportionately high or adverse effects on low income or minority population

Record of Environmental Consideration (02/11/2008)  3
09/24/10
Are project conditions required?  □ YES (see section V)  □ NO  (Review Concluded)

**Comments:** Project will have no disproportionate effects on the local population.

**Correspondence/Consultation/References:** Project description

### OTHER RELEVANT LAWS AND ENVIRONMENTAL REGULATIONS

- **☑** No impacts to other substantive laws/Executive Orders identified. Review concluded.
- **☐** Other applicable substantive laws/Executive Orders. (Identify law/E.O. and conditions if any below).

Identify relevant law or regulations, resolution and any consultation/references

No extraordinary circumstances as described in 44 CFR 10.8(d)(3) were identified during project review.

### REVIEWER AND APPROVALS

- **☐** FEMA Environmental Reviewer.

  **Name:**

  Signature: [Signature]  Date: 4/10/10

- **☐** FEMA Regional Environmental Officer or delegated approving official.

  **Name:**

  Signature: _____________________________  Date: ____________________
August 23, 2010

Ms. Barbara Farr, Director
Vermont Emergency Management Agency
Dept of Public Safety
103 South Main Street
Waterbury, VT 05671-2101

SUBJECT: FEMA-DRT1816-VT
Hazard Mitigation Grant Program Project #2P
Risk Assessment Project, Two Rivers-Ottawuquechee Regional Commission, VT

Dear Ms. Farr:

Enclosed please find the Regional Environmental Officer’s Record of Environmental Consideration and the Allocation, Obligation, Financial Activity and Project Management reports for the following Hazard Mitigation Grant Program project:

1816-2P Two Rivers-Ottawuquechee Regional Commission $ 13,975
Risk Assessment Project

Total: $ 13,975

If you have any questions, please do not hesitate to call Judith Maloney at our Hazard Mitigation Office at (617) 832-4797.

Sincerely,

Kevin M. Merli, Director
Mitigation Division

Attachment
Project Review and Conditions Status

Project Name/Number: FEMA-HMGP-1816 Risk Assessment Project, Two Rivers-Ottauquechee Regional Planning Commission, VT

Project Location: Statewide

Project Description: The Two Rivers-Ottauquechee Regional Planning Commission, VT intends to provide a GIS model to accommodate the production of flood risk assessment inventories and maps for community officials and other stakeholders. The GIS model will be a collection of tools that use various special data sets to identify sites with flood risk. The created tools will produce new risk assessments and updated inputs to be incorporated into local mitigation plans.

Monitoring Requirements:
Quarterly Reports and final inspection of scope of work and accounting records are required.

Funding
Total Cost of Project: $ 18,633
Federal Share $ 13,975
Applicant Share $ 4,658

Period of Performance
If an extension of the deadline is needed, please contact the State Hazard Mitigation Officer.

- Any deviation from this scope of work, conditions or funding must be approved in advance, in writing.

- Applicants must comply with HMGP requirements, grants management procedures in 44 CFR Part 13, the grant agreement, and applicable Federal State, and lows and standards.
ABBBREVIIATED RECORD OF ENVIRONMENTAL CONSIDERATION


**Project Name/Number:** FEMA-HMGP-1816 Risk Assessment Project, Two Rivers-Ottawauchee Regional Planning Commission, VT

**Project Location:** Statewide

**Project Description:** The Two Rivers-Ottawauchee Regional Planning Commission, VT intends to provide a GIS model to accommodate the production of flood risk assessment inventories and maps for community officials and other stakeholders. The GIS model will be a collection of tools that use various special data sets to identify sites with flood risk. The created tools will produce new risk assessments and updated inputs to be incorporated into local mitigation plans.

**Project Conditions & Other Required Project Specific Conditions**

1. The applicant must follow all applicable local, state, and federal laws, regulations, and requirements for the contracting of consultants and or contractors.

2. The applicant must follow all applicable local, state, and federal laws, regulations, and requirements for the release of public information. The applicant must also contact the State NFIP Coordinator for regulation of the material.

3. If deviations from the proposed scope of work result in design changes, the need for additional or result in any other unanticipated changes to the scope of work, the Grantee must contact FEMA, and a re-evaluation of the project will be discussed.

**HISTORIC BUILDINGS AND STRUCTURES**

☒ No historic properties that are listed or 45/50 years or older in project area. *(Review Concluded)*

☐ Building or structure listed or 45/50 years or older in project area and activity not exempt from review.

☐ Determination of No Historic Properties Affected (FEMA finding/SHPO/THPO concurrence on file)

☐ Are project conditions required? ☐ Yes (see section V) ☐ No *(Review Concluded)*

☐ Determination of Historic Properties Affected (FEMA finding/SHPO/THPO concurrence on file)

☐ Property a National Historic Landmark and National Park Service was provided early notification during the consultation process. If not, explain in comments

☐ No Adverse Effect Determination (FEMA finding/SHPO/THPO concurrence on file)

☐ Are project conditions required? ☐ Yes (see section V) ☐ No *(Review Concluded)*

☐ Adverse Effect Determination (FEMA finding/SHPO/THPO concurrence on file)

☐ Resolution of Adverse Effect completed. (MOA on file)
Reviewer Name: Judith A. Maloney  
Applicant: Two Rivers-Ottawaquchee Reg. Pl. C., VT

Disaster/Emergency/Program/Project Title: FEMA-HMGP-1816 Two Rivers-Ottawaquchee Risk Assessment Project

Are project conditions required □ Yes (see section V) □ No (Review Concluded)

Comments: A determination of No Historic Properties Affected is made under the terms of the Vermont Programmatic Agreement, Appendix B, Section XII. B & E. No consultation with SHPO is required.

Correspondence/Consultation/References: VT Programmatic Agreement 8.7.02.

ARCHAEOLOGICAL RESOURCES

☐ Project affects only previously disturbed ground. (Review Concluded)
☐ Project affects undisturbed ground.
☐ Project area has no potential for presence of archeological resources
☐ Determination of no historic properties affected (FEMA finding/SHPO/THPO concurrence or consultation on file). (Review Concluded)
☐ Project area has potential for presence of archeological resources
☐ Determination of no historic properties affected (FEMA finding/SHPO/THPO concurrence on file)
Are project conditions required □ Yes (see section V) □ No (Review Concluded)
☐ Determination of historic properties affected
☐ NR eligible resources not present (FEMA finding/SHPO/THPO concurrence on file).
Are project conditions required □ Yes (see section V) □ No (Review Concluded)
☐ NR eligible resources present in project area. (FEMA finding/SHPO/THPO concurrence on file)
☐ No Adverse Effect Determination. (FEMA finding/SHPO/THPO concurrence on file)
Are project conditions required? □ Yes (see section V) □ No (Review Concluded)
☐ Adverse Effect Determination. (FEMA finding/SHPO/THPO concurrence on file)
☐ Resolution of Adverse Effect completed. (MOA on file)
Are project conditions required? □ Yes (see section V) □ No (Review Concluded)

Comments: A determination of No Historic Properties Affected is made under the terms of the Vermont Programmatic Agreement, Appendix B, Section XII. B & E. No consultation with SHPO is required.

Correspondence/Consultation/References: VT Programmatic Agreement 8.7.02. Project description

THREATENED AND ENDANGERED SPECIES

☐ No listed species and/or designated critical habitat present in areas affected directly or indirectly by the Federal action. (Review Concluded)
☐ Listed species and/or designated critical habitat present in the areas affected directly or indirectly by the Federal action.
☐ No effect to species or designated critical habitat. (See comments for justification)

Record of Environmental Consideration (02/11/2008) 2 08/22/10
Are project conditions required? □ Yes (see section V) □ No (Review Concluded)
☐ May affect, but not likely to adversely affect species or designated critical habitat (FEMA determination/USFWS/NMFS concurrence on file) (Review Concluded)
☐ Likely to adversely affect species or designated critical habitat
☐ Formal consultation concluded. (Biological Assessment and Biological Opinion on file)
Are project conditions required? □ YES (see section V) □ NO (Review Concluded)

Comments: No threatened or endangered species or critical habitat will be affected.
Correspondence/Consultation/References: Project description

E.O. 11988 – FLOODPLAINS

☐ No Effect on Floodplains/Flood levels and project outside Floodplain - (Review Concluded)
☐ Located in Floodplain or Effects on Floodplains/Flood levels
☐ No adverse effect on floodplain and not adversely affected by the floodplain. (Review Concluded)
Are project conditions required? □ Yes (see section V) □ No (Review Concluded)
☐ Beneficial Effect on Floodplain Occupancy/Values (Review Concluded).
☐ Possible adverse effects associated with investment in floodplain, occupancy or modification of floodplain environment
☐ 8 Step Process Complete - documentation on file
Are project conditions required? □ YES (see section V) □ NO (Review Concluded)

Comments: Project will not affect any floodplain values.
Correspondence/Consultation/References: Project description

E.O. 11990 – WETLANDS

☐ No Effects on Wetland(s) and project located outside Wetland(s) - (Review Concluded)
☐ Located in Wetland or effects Wetland(s)
☐ Beneficial Effect on Wetland - (Review Concluded)
☐ Possible adverse effect associated with constructing in or near wetland
☐ Review completed as part of floodplain review
☐ 8 Step Process Complete - documentation on file
Are project conditions required? □ YES (see section V) □ NO (Review Concluded)

Comments: Project will not affect any wetland values.
Correspondence/Consultation/References: Project description

E.O. 12898 - Environmental Justice for Low Income and Minority Populations

☐ No Low income or minority population in, near or affected by the project - (Review Concluded)
☐ Low income or minority population in or near project area

Record of Environmental Consideration (02/11/2008) 3 08/22/10
Reviewer Name: Judith A. Maloney  
Applicant: Two Rivers-Ottawuqueee Reg. Pl. C., VT

Disaster/Emergency/Program/Project Title: FEMA-HMGP-1816 Two Rivers-Ottawuqueee Risk Assessment Project

- No disproportionately high and adverse impact on low income or minority population. (Review Concluded)
- Disproportionately high or adverse effects on low income or minority population
  Are project conditions required?  □ YES (see section V)  □ NO (Review Concluded)

Comments: Project will have no disproportionate effects on the local population.
Correspondence/Consultation/References: Project description

OTHER RELEVANT LAWS AND ENVIRONMENTAL REGULATIONS

☐ No impacts to other substantive laws/Executive Orders identified. Review concluded.
☐ Other applicable substantive laws/Executive Orders. (Identify law/E.O. and conditions if any below).

Identify relevant law or regulations, resolution and any consultation/references

No extraordinary circumstances as described in 44 CFR 10.8(d)(3) were identified during project review.

REVIEWER AND APPROVALS

FEMA Environmental Reviewer.
Name: 

FEMA Regional Environmental Officer or delegated approving official.
Name: 
Signature: . Date 

Record of Environmental Consideration (02/11/2008) 4 08/22/10
September 7, 2010

Ms. Barbara Farr, Director
Vermont Emergency Management Agency
Dept of Public Safety
103 South Main Street
Waterbury, VT 05671-2101

SUBJECT: FEMA-DR0816-NT
Hazard Mitigation Grant Program Project #4R
Brook Road Stabilization Project, Town of Windsor, VT

Dear Ms. Farr:

Enclosed please find the Regional Environmental Officer’s Record of Environmental Consideration and the Allocation, Obligation, Financial Activity and Project Management reports for the following Hazard Mitigation Grant Program project:

1816-4R  Town of Windsor
          Brook Road Stabilization Project  $ 41,760

          Total:  $ 41,760

If you have any questions, please do not hesitate to call Judith Maloney at our Hazard Mitigation Office at (617) 832-4797.

Sincerely,

[Signature]
Kevin M. Melan, Director
Mitigation Division

Attachment
Project Review and Conditions Status

Project Name/Number: FEMA HMGP-1816 – Brook Road Stabilization, Windsor, VT

Project Location: Brook Road, near Estey Lane, adjacent to Mill Brook
Latitude: 43.275121 Longitude: -72.252415

Project Description: The proposal is to stabilize about 600 to 1000 feet of the embankment of Mill Brook with 24” and 48” rip rap according to the enclosed diagram, and replace the guardrail and posts to prevent further damage to the road and erosion of the embankment into the brook.

Environmental Review Project Conditions

General comments: N/A

1. If ground disturbing activities occur during implementation, the applicant will monitor excavation activity, and if any artifacts or human remains are found during the excavation process all work is to cease and the applicant will notify FEMA, Grantee, and SHPO/THPO.

2. The applicant must follow all applicable local, state, and federal laws, regulations, and requirements for the abatement and disposal of lead, asbestos, and other routinely encountered hazardous substances. If there is an unusual material encountered or there is an extraordinary amount of lead, asbestos, or other routinely encountered material the applicant must contact the Grantee and the Grantee must contact FEMA. The applicant must also contact the relevant agency with authority for regulation of the material.

3. If deviations from the proposed scope of work result in design changes, the need for additional ground disturbance, additional removal of vegetation, or result in any other unanticipated changes to the physical environment, the Grantee must contact FEMA, and a re-evaluation under NEPA and other applicable environmental laws will be conducted by FEMA.

Other Required Project Specific Conditions

1. The applicant is required to obtain any applicable permits with the New Hampshire Department of Environmental Protection and the U.S. Army Corps of Engineers if this project is located in a wetland or has an effect on a wetland. All conditions of any permit acquired become conditions of this grant, and a copy of such permit(s) should be forwarded to FEMA.

2. The culvert must be constructed in such a way as to not inhibit the movement of aquatic organisms, particularly fish. The culvert invert must be place
approximately 6” in the streambed or an arch or bottomless structure must be used.

3. As long as the appropriate soil erosion/siltation control measures and the best management practices for roads and culverts (e.g. placing culvert inverts at or slightly below grade in the bed of the stream to accommodate fish passage, working during low flow summer periods, etc.) are utilized, harm to fish and wildlife will be minimized.

4. The applicant must seed, mulch, and replant any disturbed ground with native shrubs and vegetation. A special effort shall be made to plant native vegetation at higher bank elevations.

5. The applicant must ensure that best managing practices for roads and culverts are utilized, and installation of erosion control. Construction activities that result in disturbed ground must be protected against erosion into the stream. The Town must follow the Clean Water Act’s: “Best Management Practices, BMP” for erosion control during construction of this project. This includes, the applicant applying for all local, state, and federal permits and easements necessary to complete the project and obtaining these permits prior to commencement of any work. Any conditions of these permits become conditions of this grant, project, and environmental review. In accordance with FEMA Guidelines, applicants are required to comply with the federal law provisions of: the Water Pollution Control Act, as amended; Section 10 of the Rivers and Harbors Act; and Section 404 of the Clean Water Act, requirements regarding acquisition of appropriate permits or determinations from the U.S. Army Corps of Engineers (USACE) for projects funded by FEMA. All correspondence (including copies of any permits issued by USACE) regarding these determinations should be coordinated with and copies forwarded to FEMA. The applicant must follow all applicable local, state, and federal laws, regulations, and requirements and/or obtain proper local, state, and federal permit concerning this project. Any conditions of this process or these regulations, laws, and policies become conditions of this grant, project, and environmental review.

Monitoring Requirements:
Quarterly Reports and final inspection of scope of work and accounting records are required.

1. As long as the appropriate soil erosion/siltation control measures and the best management practices for roads and culverts (e.g. placing culvert inverts at or slightly below grade in the bed of the stream to accommodate fish passage, working during low flow summer periods, etc.) are utilized, harm to fish and wildlife will be minimized.
2. The applicant must seed, mulch, and replant any disturbed ground with native shrubs and vegetation. A special effort shall be made to plant native vegetation at higher bank elevations.
3. Commence work during low flow period.
4. Reroute or stop the flow of water into the project site.
5. If necessary, dewater the project site.
6. Excavate unsuitable wash material from site.
7. Remove erosion control measures after the construction area has been stabilized.

Funding
Total Cost of Project: $ 55,680
Federal Share $ 41,760
Applicant Share $ 13,920

All permits must be obtained and forwarded to FEMA before any work begins.

• Any deviation from this scope of work, conditions or funding must be approved in advance, in writing.

• Applicants must comply with HMGP requirements, grants management procedures in 44 CFR Part 13, the grant agreement, and applicable Federal State, and lows and standards.
Record of Environmental Consideration


Project Name/Number: FEMA HMGP- 1816 – Brook Road Stabilization, Windsor, VT

Project Location: The project is on Brook Road near Estey Lane and adjacent to Mill Brook.
Latitude: 43.275121 Longitude: -72.252415

Project Description: The proposal is to stabilize about 600 to 1000 feet of the embankment of Mill Brook with 24" and 48" rip rap according to the enclosed diagram and replace the guardrail and posts to prevent further damage to the road and erosion of the embankment into the brook.

Documentation Requirements

☐ No Documentation Required (Review Concluded)

☐ (Short version) All consultation and agreements implemented to comply with the National Historic Preservation Act, Endangered Species Act, and Executive Orders 11988, 11990 and 12898 are completed and no other laws apply. (Review Concluded)

☒ (Long version) All applicable laws and executive orders were reviewed. Additional information for compliance is attached to this REC.

National Environmental Policy Act (NEPA) Determination

☐ Statutorily excluded from NEPA review. (Review Concluded)

☒ Categorical Exclusion - Category (xv & xvi) Type Single Project

☐ No Extraordinary Circumstances exist.

☐ Extraordinary Circumstances exist (See Section IV).
☐ Extraordinary Circumstances mitigated. (See Section IV comments)

☐ Yes (see section V) ☒ No (Review Concluded)

☐ Environmental Assessment required. See FONSI for determination, conditions and approval.

Comments: This is a project within the area of previously disturbed ground.

Correspondence/Consultation/References: Project Description. Based on information provided by the grantee, the scope of work for this project qualifies as a Categorical Exclusion (CATEX) under 44 CFR Part 10.8 (d)(2)(xv &xvi)

Reviewer and Approvals

FEMA Environmental Reviewer
Name: Judith A. Maloney
Signature ______________________________ Date 7-27-10

FEMA Regional Environmental Officer or delegated approving official

Record of Environmental Consideration 1 03/05/07
A. National Historic Preservation Act

☐ Not type of activity with potential to affect historic properties. (Review Concluded)
☒ Activity meets Programmatic Allowance # B.1.B; III.A&B
Are project conditions required? ☐ Yes (see section V) ☒ No (Review Concluded)

HISTORIC BUILDINGS AND STRUCTURES

☒ No historic properties 50 years or older in project area. (Review Concluded)
☐ Building or structure 50 years or older in project area and activity not exempt from review.
☐ Determination of No Historic Properties Affected (FEMA finding/SHPO/THPO concurrence on file)
Are project conditions required? ☐ Yes (see section V) ☒ No, (Review Concluded)
☐ Determination of Historic Properties Affected (FEMA finding/SHPO/THPO concurrence on file)
☐ Property a National Historic Landmark and National Park Service was provided early notification during the consultation process. If not, explain in comments
☐ No Adverse Effect Determination (FEMA finding/SHPO/THPO concurrence on file).
Are project conditions required? ☐ Yes (see section V) ☒ No, (Review Concluded)
☐ Adverse Effect Determination (FEMA finding/SHPO/THPO concurrence on file)
☐ Resolution of Adverse Effect completed. (MOA on file)
Are project conditions required? ☒ Yes (see section V) ☐ No (Review Concluded)

ARCHAEOLOGICAL RESOURCES

☒ Project affects only previously disturbed ground. (Review Concluded)
☐ Project affects undisturbed ground.
☐ Project area has no potential for presence of archeological resources
☐ Determination of no historic properties affected (FEMA finding/SHPO/THPO concurrence or consultation on file). (Review Concluded)
☐ Project area has potential for presence of archeological resources
☐ Determination of no historic properties affected (FEMA finding/SHPO/THPO concurrence on file)
Are project conditions required? ☐ Yes (see section V) ☐ No, (Review Concluded)
☐ Determination of historic properties affected
☐ NR eligible resources not present (FEMA finding/SHPO/THPO concurrence on file)
Are project conditions required? ☐ Yes (see section V) ☒ No, (Review Concluded)
☐ NR eligible resources present in project area. (FEMA finding/ SHPO/THPO concurrence on file)
☐ No Adverse Effect Determination. (FEMA finding/SHPO/THPO concurrence on file)
Are project conditions required? ☐ Yes (see section V) ☒ No, (Review Concluded)
☐ Adverse Effect Determination. (FEMA finding/SHPO/THPO concurrence on file)
☐ Resolution of Adverse Effect completed. (MOA on file)
Are project conditions required? ☐ Yes (see section V) ☒ No, (Review Concluded)

Comments: Project meets programmatic agreement allowances. No consultation is required.

Correspondence/Consultation/References: FEMA, VEM. SHPO Programmatic Agreement dated 2002.

B. Endangered Species Act

☒ No listed species and/or designated critical habitat present in the action area. (Review Concluded)
☐ Listed species and/or designated critical habitat present in the action area
☐ No effect to species or designated critical habitat. (See comments for justification) (Review Concluded)

Record of Environmental Consideration 03/05/07
Reviewer Name: Judith A. Maioney  
Applicant: Town of Windsor, VT  

Disaster/Emergency/Program/Project Title: FEMA HMCP-1816- Brook Road Stabilization

- May affect, but not likely to adversely affect species or designated critical habitat (FEMA determination/USFWS/NMFS concurrence on file) (Review Concluded)
- Likely to adversely affect species or designated critical habitat
- Formal consultation concluded. (Biological Assessment and Biological Opinion on file)

Are project conditions required? ☐ YES (see section V) ☐ NO (Review Concluded)

**Comments:** No Listed Species and/or designated critical habitat present in areas affected directly or indirectly by the federal action.

**Correspondence/Consultation/References:** U.S. Fish and Wildlife Service Endangered Species web site and VT Fish and Game Nongame and Natural Heritage Program web site.

### C. Coastal Barrier Resources Act

- Project is not located in Coastal Barriers Resource System or Otherwise Protected Area. 
- Project does not affect a coastal barrier within the COBRA System (regardless of in or out) (Review Concluded)
- Project is located in a coastal barrier system and/or affects a coastal barrier. (FEMA determination/USFWS consultation on file)

Are project conditions required? ☐ YES (see section V) ☐ NO (Review Concluded)

**Comments:** This project is not in or near a coastal area.

**Correspondence/Consultation/References:** Coastal Barrier Resources Act, N.E. maps

### D. Clean Water Act

- Project site located outside of and would not affect any waters of the U.S. (Review Concluded)
- Project site located in or would affect waters including wetlands, of the U.S.
- Project exempted as in kind replacement or other exemption. (Review Concluded)
- Project may require Section 404/401/10 permit including qualification under Nationwide Permits.

Are project conditions required? ☐ YES (see section V) ☐ NO (Review Concluded)

**Comments:** This project may require permits from appropriate local, State, and Federal agencies. Additionally, construction activities that result in disturbed ground must be protected against erosion into the stream. The Town must follow the Clean Water Act, “Best Management Practices BMP”. The Town will need to obtain all necessary permits from relevant state agencies after the project specifications have been completed and before work begins.

**Correspondence/Consultation/References:** Section 404 of the Clean Water Act, (Re: determinations and acquisition of appropriate permits), and local Conservation Commission regulations.

### E. Coastal Zone Management Act

- Project does not affect a coastal zone area (regardless of in or out) (Review concluded)
- Project is not located in a coastal zone area. (Review concluded)
- Project is located in a coastal zone area and/or affects the coastal zone

Are project conditions required? ☐ YES (see section V) ☐ NO (Review Concluded)

**Comments:** N/A - this project is not in or near a coastal area.

**Correspondence/Consultation/References:** Google Earth search map of Vermont

### F. Fish and Wildlife Coordination Act

- Project is not located in or affects a waterway/body of water. (Review Concluded)
- Project affects, controls or modifies a waterway/body of water.

**Comments:** No Recommendations offered by USFWS. (Review Concluded)

Record of Environmental Consideration 03/05/07
Reviewer Name: Judith A. Ailey	Applicant: Town of Windsor, VT
Disaster/Emergency/Program/Project Title: FEMA HMGIP: 1816- Brook Road Stabilization

☐ Recommendations provided by USFWS.
Are project conditions required? ☐ YES (see section V) ☐ NO (Review Concluded)

Comments: No Listed Species and/or designated critical habitat present in areas affected directly or indirectly by the federal action.
Correspondence/Consultation/References: U.S. Fish and Wildlife Service Endangered Species website and VT Fish and Game Nongame and Natural Heritage Program website.

G. Clean Air Act
☒ Project will not result in permanent air emissions. (Review Concluded)
☐ Project is located in an attainment area. (Review Concluded)
☐ Project is located in a non-attainment area.
☐ Coordination required with applicable state administering agency.
Are project conditions required? ☐ YES (see section V) ☐ NO (Review Concluded)

Comments: Any emissions from construction equipment will be temporary in nature. Only minimal, temporary dust and increased emissions from construction vehicles caused by a routine construction project might occur.
Correspondence/Consultation/References: See project description

H. Farmlands Protection Policy Act
☒ Project does not affect prime or unique farmland. (Review Concluded)
☐ Project causes unnecessary or irreversible conversion of prime or unique farmland.
☐ Coordination with Natural Resources Conservation Commission required.
☐ Farmland Conversion Impact Rating, Form AD-1006, completed.
Are project conditions required? ☐ YES (see section V) ☐ NO (Review Concluded)

Comments: No commitment of farm lands. No intrusion into existing farmland will occur.
Correspondence/Consultation/References: See project description

I. Migratory Bird Treaty Act
☐ Project not located within a flyway zone. (Review Concluded)
☒ Project located within a flyway zone.
☒ Project does not have potential to take migratory birds. (Review Concluded)
☐ Project has potential to take migratory birds.
☐ Contact made with USFWS
Are project conditions required? ☐ YES (see section V) ☐ NO (Review Concluded)

Comments: N/A This project will not result in the migratory taking of birds.
Correspondence/Consultation/References: The Migratory Bird Treaty Act and Executive Order 13186, project description

J. Magnuson-Stevens Fishery Conservation and Management Act
☒ Project not located in or near Essential Fish Habitat. (Review Concluded)
☐ Project located in or near Essential Fish Habitat.
☐ Project does not adversely affect Essential Fish Habitat. (Review Concluded)
☐ Project adversely affects Essential Fish Habitat (FA: MA determination/USFWS/NMFS concurrence on file)
☐ NOAA Fisheries provided no recommendation(s) (Review Concluded).
☐ NOAA Fisheries provided recommendation(s)
☐ Written reply to NOAA Fisheries recommendation(s) completed.
Are project conditions required? ☐ YES (see section V) ☐ NO (Review Concluded)
STATE OF VERMONT
FINANCE & MANAGEMENT GRANT REVIEW FORM

<table>
<thead>
<tr>
<th>Grant Summary:</th>
<th>FEMA assistance for hazard mitigation projects in Fairfield, Windsor, So. Windsor and Ottauquechee region.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date:</td>
<td>10/27/2010</td>
</tr>
<tr>
<td>Department:</td>
<td>Department of Public Safety</td>
</tr>
<tr>
<td>Legal Title of Grant:</td>
<td>Hazard Mitigation Grant Program</td>
</tr>
<tr>
<td>Federal Catalog #:</td>
<td>97.039</td>
</tr>
<tr>
<td>Grant/Donor Name and Address:</td>
<td>US Dept of Homeland Security/FEMA Region I, Boston, Ma.</td>
</tr>
<tr>
<td>Grant/Donation</td>
<td>$111,037</td>
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<table>
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<tr>
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<th>SFY 2</th>
<th>SFY 3</th>
<th>Total</th>
<th>Comments</th>
</tr>
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<tr>
<td>$111,037</td>
<td>$</td>
<td>$</td>
<td>$111,037</td>
<td>75% federal funding</td>
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<th>Position Information:</th>
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<th>Explanation/Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
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</tbody>
</table>

| Additional Comments: | 25% local match of $37,011 for total project cost of $148,048. |

Department of Finance & Management
Secretary of Administration
Sent To Joint Fiscal Office

(Initial) DB 10-27-10
(Initial) 11/4/10
Date

RECEIVED
NOV 09 2010
JOINT FISCAL OFFICE
To: Joint Fiscal Office, Montpelier  
From: Barbara Farr, Director  
Subject: Seeking approval for receipt of federal funds  
Date: October 14, 2010

Vermont Emergency Management is respectfully requesting an expedited review and approval for three projects (DR 1784 – Town of Marlboro, and DR 1816 – Two Rivers_Ottauquechee Regional Commission, Town of Windsor, Town of Fairfield and Southern Windsor County Regional Planning Commission) for local communities being funded by FEMA’s Hazard Mitigation Grant Program (HMGP). This program is awarded by FEMA to local communities in the aftermath of a federally declared disaster. These hazard mitigation projects are intended for our communities to prevent future damage from natural hazards such as catastrophic flooding and are connected with federally declared disasters DR 1784 (August 15, 2008) and DR 1816 (January 14, 2009). FEMA funding was released only recently due to the often contentious Congressional debate concerning federal expenditures and revenue sources. Vermont has been waiting at least six months for the funds to be released; one community, Marlboro, has been waiting even longer. Extensive delays in the release of FEMA funding have already had a negative impact on some of the communities involved in these approved mitigation projects.

We would greatly appreciate an expedited review by the Joint Fiscal Office so that these mitigation projects can be implemented in our communities as soon as possible. Thank you very much for your consideration in this regard. For additional information, please contact me or the state hazard mitigation officer, Ray Doherty, at (802) 241-5258 or via e-mail at rdoherty@dps.state.vt.us
STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE (Form AA-1)

BASIC GRANT INFORMATION

1. Agency: 
2. Department: Public Safety
3. Program: Emergency Management
4. Legal Title of Grant: Hazard Mitigation Grant Program
5. Federal Catalog #: 97.039

6. Grant/Donor Name and Address:
   U.S. Dept. of Homeland Security/FEMA Region I
   99 High St, Sixth Floor
   Boston, MA 02110-2132


8. Purpose of Grant:
The Hazard Mitigation Grant Program provides States and local governments financial assistance to implement measures that will permanently reduce or eliminate future damages and losses from natural hazards through safer building practices and improving existing structures and supporting infrastructure.

9. Impact on existing program if grant is not Accepted:
The severe storms that occurred December 2008 resulted in Vermont cities and towns suffering ice storms. The President declared this a federal disaster (#1816) and made federal aid available to mitigate future reoccurring flood problems.

10. BUDGET INFORMATION

<table>
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<tr>
<th>Expenditures:</th>
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<td>Operating Expenses</td>
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<td>$</td>
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<tr>
<td>Grants</td>
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<td>$</td>
<td>$</td>
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<td>Cash</td>
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<th>Federal Funds:</th>
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<td>(Direct Costs)</td>
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<td>$</td>
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<tr>
<td>(Statewide Indirect)</td>
<td>$111,037</td>
<td>$</td>
<td>$</td>
<td>$</td>
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<tr>
<td>(Departmental Indirect)</td>
<td>$</td>
<td>$</td>
<td>$</td>
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<table>
<thead>
<tr>
<th>Other Funds:</th>
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<th>SFY 2</th>
<th>SFY 3</th>
<th>Comments</th>
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<tr>
<td>Grant (source Local Match)</td>
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<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Total</td>
<td>$148,048</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
</tbody>
</table>

Appropriation No: 2140030000 Amount: $111,037

Department of Finance & Management
Version 1.4, 12/15/08
STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE  (Form AA-1)

PERSONAL SERVICE INFORMATION

11. Will monies from this grant be used to fund one or more Personal Service Contracts?  ☒ Yes  ☐ No
If “Yes”, appointing authority must initial here to indicate intent to follow current competitive bidding process/policy.

Appointing Authority Name:  Agreed by:  (initial)

12. Limited Service Position Information:

<table>
<thead>
<tr>
<th># Positions</th>
<th>Title</th>
</tr>
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</tbody>
</table>

Total Positions

12a. Equipment and space for these positions:

☐ Is presently available.  ☐ Can be obtained with available funds.

13. AUTHORIZATION AGENCY/DEPARTMENT

I/we certify that no funds beyond basic application preparation and filing costs have been expended or committed in anticipation of Joint Fiscal Committee approval of this grant, unless previous notification was made on Form AA-1PN (if applicable):

Signature:  Date:  
Title:  

14. ACTION BY GOVERNOR

☐ Check One Box:

☑ Accepted  (Governor’s signature)  Date:  11/3/10

☐ Rejected

15. SECRETARY OF ADMINISTRATION

☐ Check One Box:

☐ Request to JFO  Date:  11/3/10

☐ Information to JFO

(Secretary’s signature or designee)

16. DOCUMENTATION REQUIRED

Required GRANT Documentation

☐ Request Memo  ☐ Notice of Donation (if any)
☐ Dept. project approval (if applicable)  ☐ Grant (Project) Timeline (if applicable)
☐ Notice of Award  ☐ Request for Extension (if applicable)
☐ Grant Agreement  ☐ Form AA-1PN attached (if applicable)
☐ Grant Budget

End Form AA-1
Project Review and Conditions Status


**Project Name/Number:** FEMA HMGP- 1816 – Ryan Road Stabilization, Fairfield, VT

**Project Location:** Ryan Road is adjacent to VT route 36 and borders Black Creek:
Latitude: 44.811  Longitude: -72.909

**Project Description:** To mitigate the erosion of Ryan Road caused by the Black Creek flooding and eroding the road, the Town proposes to stabilize the roadbed which would include re-grading and re-shaping the highway, constructing a stone-fill, geotextile-wrapped road shoulder on the downstream side of the road, applying bituminous concrete surface to the road and erecting delineators on the road edges for safety during high water if emergency vehicles need to pass.

**Environmental Review Project Conditions**

**General comments:** N/A

1. If ground disturbing activities occur during implementation, the applicant will monitor excavation activity, and if any artifacts or human remains are found during the excavation process all work is to cease and the applicant will notify FEMA, Grantee, and SHPO/THPO.

2. The applicant must follow all applicable local, state, and federal laws, regulations, and requirements for the abatement and disposal of lead, asbestos, and other routinely encountered hazardous substances. If there is an unusual material encountered or there is an extraordinary amount of lead, asbestos, or other routinely encountered material the applicant must contact the Grantee and the Grantee must contact FEMA. The applicant must also contact the relevant agency with authority for regulation of the material.

3. If deviations from the proposed scope of work result in design changes, the need for additional ground disturbance, additional removal of vegetation, or result in any other unanticipated changes to the physical environment, the Grantee must contact FEMA, and a re-evaluation under NEPA and other applicable environmental laws will be conducted by FEMA.

**Other Required Project Specific Conditions**

1. The applicant is required to obtain any applicable permits with the New Hampshire Department of Environmental Protection and the U.S. Army Corps of Engineers if this project is located in a wetland or has an effect on a wetland. All
conditions of any permit acquired become conditions of this grant, and a copy of such permit(s) should be forwarded to FEMA.

2. The culvert must be constructed in such a way as to not inhibit the movement of aquatic organisms, particularly fish. The culvert invert must be placed approximately 6” in the streambed or an arch or bottomless structure must be used.

3. As long as the appropriate soil erosion/siltation control measures and the best management practices for roads and culverts (e.g. placing culvert inverts at or slightly below grade in the bed of the stream to accommodate fish passage, working during low flow summer periods, etc.) are utilized, harm to fish and wildlife will be minimized.

4. The applicant must seed, mulch, and replant any disturbed ground with native shrubs and vegetation. A special effort shall be made to plant native vegetation at higher bank elevations.

5. The applicant must ensure that best managing practices for roads and culverts are utilized, and installation of erosion control. Construction activities that result in disturbed ground must be protected against erosion into the stream. The Town must follow the Clean Water Act’s: “Best Management Practices, BMP” for erosion control during construction of this project. This includes, the applicant applying for all local, state, and federal permits and easements necessary to complete the project and obtaining these permits prior to commencement of any work. Any conditions of these permits become conditions of this grant, project, and environmental review. In accordance with FEMA Guidelines, applicants are required to comply with the federal law provisions of: the Water Pollution Control Act, as amended; Section 10 of the Rivers and Harbors Act; and Section 404 of the Clean Water Act, requirements regarding acquisition of appropriate permits or determinations from the U.S. Army Corps of Engineers (USACE) for projects funded by FEMA. All correspondence (including copies of any permits issued by USACE) regarding these determinations should be coordinated with and copies forwarded to FEMA. The applicant must follow all applicable local, state, and federal laws, regulations, and requirements and/or obtain proper local, state, and federal permit concerning this project. Any conditions of this process or these regulations, laws, and policies become conditions of this grant, project, and environmental review.

Monitoring Requirements:
Quarterly Reports and final inspection of scope of work and accounting records are required.

1. As long as the appropriate soil erosion/siltation control measures and the best management practices for roads and culverts (e.g. placing culvert inverts at or
slightly below grade in the bed of the stream to accommodate fish passage, working during low flow summer periods, etc.) are utilized, harm to fish and wildlife will be minimized.

2. The applicant must seed, mulch, and replant any disturbed ground with native shrubs and vegetation. A special effort shall be made to plant native vegetation at higher bank elevations.

3. Commence work during low flow period.

4. Reroute or stop the flow of water into the project site.

5. If necessary, dewater the project site.

6. Excavate unsuitable wash material from site.

7. Remove erosion control measures after the construction area has been stabilized.

Funding

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Total Cost of Project</td>
<td>$67,485</td>
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<tr>
<td>Federal Share</td>
<td>$50,614</td>
</tr>
<tr>
<td>Applicant Share</td>
<td>$16,871</td>
</tr>
</tbody>
</table>

All permits must be obtained and forwarded to FEMA before any work begins.

- Any deviation from this scope of work, conditions or funding must be approved in advance, in writing.

- Applicants must comply with HMGP requirements, grants management procedures in 44 CFR Part 13, the grant agreement, and applicable Federal State, and laws and standards.
September 27, 2010

Ms. Barbara Farr, Director  
Vermont Emergency Management Agency  
Dept of Public Safety  
103 South Main Street  
Waterbury, VT 05671-2101

SUBJECT: FEMA-DR-24010-VT  
Hazard Mitigation Grant Program Project #6R  
Ryan Road Stabilization Project, Town of Fairfield, VT

Dear Ms. Farr:

Enclosed please find the Regional Environmental Officer's Record of Environmental Consideration and the Allocation, Obligation, Financial Activity and Project Management reports for the following Hazard Mitigation Grant Program project:

1816-6R  
Town of Fairfield  
Ryan Road Stabilization Project  
$ 50,614

Total:  
$ 50,614

If you have any questions, please do not hesitate to call Judith Maloney at our Hazard Mitigation Office at (617) 832-4797.

Sincerely,

Kevin M., Director  
Mitigation Division

Attachment
Record of Environmental Consideration


Project Name/Number: FEMA HMGP-1816 – Ryan Road Stabilization, Fairfield, VT

Project Location: Ryan Road is adjacent to VT route 36 and borders Black Creek:
Latitude: 44.811 Longitude: -72.909

Project Description: To mitigate the erosion of Ryan Road caused by the Black Creek flooding and eroding the road, the Town proposes to stabilize the roadbed which would include re-grading and re-shaping the highway, constructing a stone-fill, geotextile-wrapped road shoulder on the downstream side of the road, applying bituminous concrete surface to the road and erecting delineators on the road edges for safety during high water if emergency vehicles need to pass.

Documentation Requirements

☐ No Documentation Required (Review Concluded)

☐ (Short version) All consultation and agreements implemented to comply with the National Historic Preservation Act, Endangered Species Act, and Executive Orders 11988, 11990 and 12898 are completed and no other laws apply. (Review Concluded)

☒ (Long version) All applicable laws and executive orders were reviewed. Additional information for compliance is attached to this REC.

National Environmental Policy Act (NEPA) Determination

☐ Statutorily excluded from NEPA review. (Review Concluded)

☒ Categorical Exclusion - Category (xv & xvi) Type Single Project

☒ No Extraordinary Circumstances exist.
Are project conditions required? ☒ Yes (see section V) ☐ No (Review Concluded)

☐ Extraordinary Circumstances exist (See Section IV).
☐ Extraordinary Circumstances mitigated. (See Section IV comments)
Are project conditions required? ☐ Yes (see section V) ☒ No (Review Concluded)

☐ Environmental Assessment required. See FONSI for determination, conditions and approval.

Comments: This is a project within the area of previously disturbed ground.
Correspondence/Consultation/References: Project Description; Based on information provided by the grantee, the scope of work for this project qualifies as a Categorical Exclusion (CATEX) under 44 CFR Part 10.8 (d)(2)(xv &xvi)

Reviewer and Approvals

FEMA Environmental Reviewer
Name: Judith A. Maloney
Signature: [Signature]
Date: 2-16-10

FEMA Regional Environmental Officer or delegated approving official
FEMA HMGP-1816- Ryan Road Stabilization

Reviewer Name: Judith A. ....alone
Applicant: Town of Fairfield, VT

Disaster/Emergency/Program/Project Title: FEMA HMGP-1816- Ryan Road Stabilization

Name: John P. Sullivan
Signature: [Signature]
Date: 2/17/07

I. Compliance Review for Environmental Laws (other than NEPA)

A. National Historic Preservation Act
☐ Not type of activity with potential to affect historic properties. (Review Concluded)
☒ Applicable executed Programmatic Agreement. Otherwise, conduct standard Section 106 review.
☐ Activity meets Programmatic Allowance # B.I.B; III.A&B
Are project conditions required? ☐ Yes (see section V) ☒ No (Review Concluded)

HISTORIC BUILDINGS AND STRUCTURES
☒ No historic properties 50 years or older in project area. (Review Concluded)
☐ Building or structure 50 years or older in project area and activity not exempt from review.
☐ Determination of No Historic Properties Affected (FEMA finding/SHPO/THPO concurrence on file)
Are project conditions required? ☐ Yes (see section V) ☐ No (Review Concluded)
☐ Determination of Historic Properties Affected (FEMA finding/SHPO/THPO concurrence on file)
☒ Property a National Historic Landmark and National Park Service was provided early notification during the consultation process. If not, explain in comments
☐ No Adverse Effect Determination (FEMA finding/SHPO/THPO concurrence on file).
Are project conditions required? ☐ Yes (see section V) ☐ No (Review Concluded)
☐ Adverse Effect Determination (FEMA finding/SHPO/THPO concurrence on file)
☐ Resolution of Adverse Effect completed. (MOA on file)
Are project conditions required? ☒ Yes (see section V) ☐ No (Review Concluded)

ARCHEOLOGICAL RESOURCES
☒ Project affects only previously disturbed ground. (Review Concluded)
☐ Project affects undisturbed ground.
☐ Project area has no potential for presence of archeological resources
☐ Determination of no historic properties affected (FEMA finding/SHPO/THPO concurrence or consultation on file). (Review Concluded)
☐ Project area has potential for presence of archeological resources
☐ Determination of no historic properties affected (FEMA finding/SHPO/THPO concurrence on file)
Are project conditions required? ☞ Yes (see section V) ☐ No (Review Concluded)
☐ Determination of historic properties affected
☐ NR eligible resources not present (FEMA finding/SHPO/THPO concurrence on file).
Are project conditions required? ☛ Yes (see section V) ☐ No (Review Concluded)
☐ NR eligible resources present in project area. (FEMA finding/SHPO/THPO concurrence on file)
☐ No Adverse Effect Determination. (FEMA finding/SHPO/THPO concurrence on file)
Are project conditions required? ☛ Yes (see section V) ☐ No (Review Concluded)
☐ Adverse Effect Determination. (FEMA finding/SHPO/THPO concurrence on file)
☐ Resolution of Adverse Effect completed. (MOA on file)
Are project conditions required? ☛ Yes (see section V) ☐ No (Review Concluded)

Comments: Project meets programmatic agreement allowances. No consultation is required.
Correspondence/Consultation/References: FEMA, VEM. SHPO Programmatic Agreement dated 2002.

B. Endangered Species Act
☒ No listed species and/or designated critical habitat present in the action area. (Review Concluded)
☐ Listed species and/or designated critical habitat present in the action area.
☐ No effect to species or designated critical habitat. (See comments for justification) (Review Concluded)
Reviewer Name: Judith A. Malone
Applicant: Town of Fairfield, VT
Disaster/Emergency/Program/Project Title: FEMA HMGP- 1816- Ryan Road Stabilization

☐ May affect, but not likely to adversely affect species or designated critical habitat (FEMA determination/USFWS/NMFS concurrence on file) (Review Concluded)
☐ Likely to adversely affect species or designated critical habitat
   ☐ Formal consultation concluded. (Biological Assessment and Biological Opinion on file)
   Are project conditions required? ☐ YES (see section V) ☐ NO (Review Concluded)

Comments: No Listed Species and/or designated critical habitat resent in areas affected directly or indirectly by the federal action. “No species” letter from USFWS dated 4 Jan 2010.
Correspondence/Consultation/References: U.S. Fish and Wildlife Service Endangered Species web site and VT Fish and Game Nongame and Natural Heritage Program web site.

C. Coastal Barrier Resources Act
☐ Project is not located in Coastal Barriers Resource System or Otherwise Protected Area.
☐ Project does not affect a coastal barrier within the COBRA System (regardless of in or out) (Review Concluded)
☐ Project is located in a coastal barrier system and/or affects a coastal barrier. (FEMA determination/USFWS consultation on file)
   ☐ Proposed action an exception under Section 3505.a.6? (Review Concluded)
   ☐ Proposed action not excepted under Section 3505.a.6.
   Are project conditions required? ☐ YES (see section V) ☐ NO (Review Concluded)

Comments: This project is not in or near a coastal area.
Correspondence/Consultation/References: Coastal Barrier Resources Act, N.E. maps

D. Clean Water Act
☐ Project site located outside of and would not affect any waters of the U.S. (Review Concluded)
☐ Project site located in or would affect waters, including wetlands, of the U.S.
   ☐ Project exempted as in kind replacement or other exemption. (Review Concluded)
   ☐ Project may require Section 404/401/10 permit, including qualification under Nationwide Permits.
   Are project conditions required? ☐ YES (see section V) ☐ NO (Review Concluded)

Comments: This project may require permits from appropriate local, State, and Federal agencies. Additionally, construction activities that result in disturbed ground must be protected against erosion into the stream. The Town must follow the Clean Water Act, “Best Management Practices BMP”. The Town must contact the U.S. Army Corps of Engineers to inquire if a permit is required. The Town will need to obtain all necessary permits from relevant state agencies after the project specifications have been completed and before work begins.
Correspondence/Consultation/References: Section 404 of the Clean Water Act, (Re: determinations and acquisition of appropriate permits), and local Conservation Commission regulations.

E. Coastal Zone Management Act
☐ Project does not affect a coastal zone area (regardless of in or out)- (Review concluded)
☐ Project is not located in a coastal zone area – (Review concluded)
☐ Project is located in a coastal zone area and/or affects the coastal zone
   ☐ State administering agency does not require consistency review. (Review Concluded).
   ☐ State administering agency requires consistency review.
   Are project conditions required? ☐ YES (see section V) ☐ NO (Review Concluded)

Comments: N/A - this project is not in or near a coastal area
Correspondence/Consultation/References: Google Earth search/map of Vermont

F. Fish and Wildlife Coordination Act
☐ Project is not located in or affects a waterway/body of water. (Review Concluded)
☐ Project affects, controls or modifies a waterway/body of water.
   ☐ Coordination with USFWS conducted
   ☐ No Recommendations offered by USFWS. (Review Concluded)

Record of Environmental Consideration 3
03/05/07
Disaster/Emergency/Program/Project Title: FEMA HMGP- 1816- Ryan Road Stabilization

☐ Recommendations provided by USFWS.

Are project conditions required?  ☐ YES (see section V)  ☐ NO (Review Concluded)

Comments: No Listed Species and/or designated critical habitat resent in areas affected directly or indirectly by the federal action. "No species" letter from USFWS dated 4 Jan 2010.

Correspondence/Consultation/References: U.S. Fish and Wildlife Service Endangered Species web site and VT Fish and Game Nongame and Natural Heritage Program web site.

G. Clean Air Act
☐ Project will not result in permanent air emissions. (Review Concluded)
☐ Project is located in an attainment area. (Review Concluded)
☐ Project is located in a non-attainment area.

☐ Coordination required with applicable state administering agency.

Are project conditions required?  ☐ YES (see section V)  ☐ NO (Review Concluded)

Comments: Any emissions from construction equipment will be temporary in nature. Only minimal, temporary dust and increased emissions from construction vehicles caused by a routine construction project might occur.

Correspondence/Consultation/References: project description

H. Farmlands Protection Policy Act
☐ Project does not affect prime or unique farmland. (Review Concluded)
☐ Project causes unnecessary or irreversible conversion of prime or unique farmland.

☐ Coordination with Natural Resource Conservation Commission required.

☐ Farmland Conversion Impact Rating, Form AD-1006, completed.

Are project conditions required?  ☐ YES (see section V)  ☐ NO (Review Concluded)

Comments: No commitment of farmlands. No intrusion into existing farmland will occur.

Correspondence/Consultation/References: See project description.

I. Migratory Bird Treaty Act
☐ Project not located within a flyway zone. (Review Concluded)
☒ Project located within a flyway zone.

☐ Project does not have potential to take migratory birds. (Review Concluded)
☐ Project has potential to take migratory birds.

☐ Contact made with USFWS

Are project conditions required?  ☐ YES (see section V)  ☐ NO (Review Concluded)

Comments: N/A This project will not result in the migratory taking of birds.

Correspondence/Consultation/References: The Migratory Bird Treaty Act and Executive Order 13186, project description

J. Magnuson-Stevens Fishery Conservation and Management Act
☐ Project not located in or near Essential Fish Habitat. (Review Concluded)
☐ Project located in or near Essential Fish Habitat.

☐ Project does not adversely affect Essential Fish Habitat. (Review Concluded)
☐ Project adversely affects Essential Fish Habitat (FEMA determination/USFWS/NMFS concurrence on file)

☐ NOAA Fisheries provided no recommendation(s) (Review Concluded).

☐ NOAA Fisheries provided recommendation(s)

☐ Written reply to NOAA Fisheries recommendations completed.

Are project conditions required?  ☐ YES (see section V)  ☐ NO (Review Concluded)

Record of Environmental Consideration 4
K. Wild and Scenic Rivers Act

- Project is not along and does not affect a Wild or Scenic River - (Review Concluded)
- Project is along or affects Wild or Scenic River
  - Project adversely affects WSR as determined by NPS/USFS. FEMA cannot fund the action.
  - (NPS/USFS/USFWS/BLM consultation on file)
  - Project does not adversely affect WSR. (NPS/USFS/USFWS/BLM consultation on file)
  - Are project conditions required? □ YES (see section V) □ NO (Review Concluded)

Comments: N/A – No designated river is impacted by this proposal.
Correspondence/Consultation/References: Review of Web site: http://www.rivers.gov/wildriverslist.html#vt

L. Other Relevant Laws and Environmental Regulations
Identify relevant law or regulations, resolution and any consultation/references: N/A

II. Compliance Review for Executive Orders

A. E.O. 11988 - Floodplains

- Located in Floodplain or Effects on Floodplains/Flood levels - (Review Concluded)
- No adverse effect on floodplain or can be adversely affected by the floodplain. (Review Concluded).
- Beneficial Effect on Floodplain Occupancy/Values (Review Concluded).
- Possible adverse effects associated with investment in floodplain, occupancy or modification of floodplain environment
  - 8 Step Process Complete - documentation on file
  - Are project conditions required? □ YES (see section V) □ NO (Review Concluded)

Comments: Project is located in an area of the 100-year flood with base elevations and flood hazard factors not determined.
Correspondence/Consultation/References: FIRM 500063A 9/27/1985 Zone A

B. E.O. 11990 - Wetlands

- Located in Wetland or effects Wetland(s) - (Review Concluded)
- Beneficial Effect on Wetland - (Review Concluded)
- Possible adverse effect associated with constructing in or near wetland
  - Review completed as part of floodplain review
  - 8 Step Process Complete - documentation on file
  - Are project conditions required? □ YES (see section V) □ NO (Review Concluded)

Comments: The project does not have an adverse impact on the wetland.
Correspondence/Consultation/References: FIRM 500063A 9/27/1985 Zone A

C. E.O. 12898 - Environmental Justice for Low Income and Minority Populations

- No Low income or minority population in, near or affected by the project - (Review Concluded)
- Low income or minority population in or near project area
  - No disproportionately high and adverse impact on low income or minority population- (Review Concluded)
  - Disproportionately high or adverse effects on low income or minority population
  - Are project conditions required? □ YES (see section V) □ NO (Review Concluded)

Record of Environmental Consideration 5 03/05/07
Comments: Project will have no disproportionate effects on the local population.
Correspondence/Consultation/References:

III. Other Environmental Issues

Identify other potential environmental concerns in the comment box not clearly falling under a law or executive order (see environmental concerns scoping checklist for guidance).

Comments: Correspondence/Consultation/References: N/A

IV. Extraordinary Circumstances

Based on the review of compliance with other environmental laws and Executive Orders, and in consideration of other environmental factors, review the project for extraordinary circumstances.

* A “Yes” under any circumstance may require an Environmental Assessment (EA) with the exception of (ii) which should be applied in conjunction with controversy on an environmental issue. If the circumstance can be mitigated, please explain in comments. If no, leave blank.

Yes

☐ (i) Greater scope or size than normally experienced for a particular category of action
☐ (ii) Actions with a high level of public controversy
☐ (iii) Potential for degradation, even though slight, of already existing poor environmental conditions;
☐ (iv) Employment of unproven technology with potential adverse effects or actions involving unique or unknown environmental risks;
☐ (v) Presence of endangered or threatened species or their critical habitat, or archaeological, cultural, historical or other protected resources;
☐ (vi) Presence of hazardous or toxic substances at levels which exceed Federal, state or local regulations or standards requiring action or attention;
☐ (vii) Actions with the potential to affect special status areas adversely or other critical resources such as wetlands, coastal zones, wildlife refuge and wilderness areas, wild and scenic rivers, sole or principal drinking water aquifers;
☐ (viii) Potential for adverse effects on health or safety; and
☐ (ix) Potential to violate a federal, state, local or tribal law or requirement imposed for the protection of the environment.
☐ (x) Potential for significant cumulative impact when the proposed action is combined with other past, present and reasonably foreseeable future actions, even though the impacts of the proposed action may not be significant by themselves.

Comments:

V. Environmental Review Project Conditions

General comments: N/A
1. If ground disturbing activities occur during implementation, the applicant will monitor excavation activity, and if any artifacts or human remains are found during the excavation process all work is to cease and the applicant will notify FEMA, Grantee, and SHPO/THPO.

2. The applicant must follow all applicable local, state, and federal laws, regulations, and requirements for the abatement and disposal of lead, asbestos, and other routinely encountered hazardous substances. If there is an unusual material encountered or there is an extraordinary amount of lead, asbestos, or other routinely encountered material the applicant must contact the Grantee and the Grantee must contact FEMA. The applicant must also contact the relevant agency with authority for regulation of the material.

3. If deviations from the proposed scope of work result in design changes, the need for additional ground disturbance, additional removal of vegetation, or result in any other unanticipated changes to the physical environment, the Grantee must contact FEMA, and a re-evaluation under NEPA and other applicable environmental laws will be conducted by FEMA.

Other Required Project Specific Conditions

1. The applicant is required to obtain any applicable permits with the New Hampshire Department of Environmental Protection and the U.S. Army Corps of Engineers if this project is located in a wetland or has an effect on a wetland. All conditions of any permit acquired become conditions of this grant, and a copy of such permit(s) should be forwarded to FEMA.

2. The culvert must be constructed in such a way as to not inhibit the movement of aquatic organisms, particularly fish. The culvert invert must be placed approximately 6" in the streambed or an arch or bottomless structure must be used.

3. As long as the appropriate soil erosion/siltation control measures and the best management practices for roads and culverts (e.g. placing culvert inverts at or slightly below grade in the bed of the stream to accommodate fish passage, working during low flow summer periods, etc.) are utilized, harm to fish and wildlife will be minimized.

4. The applicant must seed, mulch, and replant any disturbed ground with native shrubs and vegetation. A special effort shall be made to plant native vegetation at higher bank elevations.

5. The applicant must ensure that best managing practices for roads and culverts are utilized, and installation of erosion control. Construction activities that result in disturbed ground must be protected against erosion into the stream. The Town must follow the Clean Water Act's: “Best Management Practices, BMP” for erosion control during construction of this project. This includes, the applicant applying for all local, state, and federal permits and easements necessary to complete the project and obtaining these permits prior to commencement of any work. Any conditions of these permits become conditions of this grant, project, and environmental review. In accordance with FEMA Guidelines, applicants are required to comply with the federal law provisions of: the Water Pollution Control Act, as amended; Section 10 of the Rivers and Harbors Act; and Section 404 of the Clean Water Act, requirements regarding acquisition of appropriate permits or determinations from the U.S. Army Corps of Engineers (USACE) for projects funded by FEMA. All correspondence (including copies of any permits issued by USACE) regarding these determinations should be coordinated with and copies forwarded to FEMA. The applicant must follow all applicable local, state, and federal laws, regulations, and requirements and/or obtain proper local, state, and federal permit concerning this project. Any conditions of this process or these regulations, laws, and policies become conditions of this grant, project, and environmental review.

Monitoring Requirements:
Quarterly Reports and final inspection of scope of work and accounting records are required.

Record of Environmental Consideration 7 03/05/07
September 21, 2010

Ms. Barbara Farr, Director
Vermont Emergency Management Agency
Dept of Public Safety
103 South Main Street
Waterbury, VT 05671-2101

SUBJECT: FEMA-DR-1816-5F
Hazard Mitigation Grant Program Project #5F
Vermont Emergency Management South Windsor RPC Outreach Project

Dear Ms. Farr:

Enclosed please find the Regional Environmental Officer’s Record of Environmental Consideration and the Allocation, Obligation, Financial Activity and Project Management reports for the following Hazard Mitigation Grant Program project:

<table>
<thead>
<tr>
<th>Project</th>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1816-5F</td>
<td>Vermont Emergency Management</td>
<td>$4,688</td>
</tr>
<tr>
<td></td>
<td>Vermont Emergency Management South Windsor RPC Outreach</td>
<td></td>
</tr>
</tbody>
</table>

Total: $4,688

If you have any questions, please do not hesitate to call Judith Maloney at our Hazard Mitigation Office at (617) 832-4797.

Sincerely,

Kevin M. Merli, Director
Mitigation Division

Attachment
Project Review and Conditions Status

Project Name/Number: FEMA-HMGP-1816-Vermont Emergency Management Southern Windsor Regional Planning Commission Outreach Project, VT

Project Location: Statewide

Project Description: The Vermont Emergency Management Southern Windsor Regional Planning Commission, VT intends to provide mitigation outreach materials chosen and developed collaboratively with the State Hazard Mitigation Officer along with preparedness materials to selected audiences. Detailed documentation of the outreach materials and audiences will be provided before the grant is closed.

Monitoring Requirements:
Quarterly Reports and final inspection of scope of work and accounting records are required.

Funding
Total Cost of Project: $ 6,250
Federal Share $ 4,688
Applicant Share $ 1,562

Any deviation from this scope of work, conditions or funding must be approved in advance, in writing.

- Applicants must comply with HMGP requirements, grants management procedures in 44 CFR Part 13, the grant agreement, and applicable Federal State, and lows and standards.
ABBREVIATED RECORD OF ENVIRONMENTAL CONSIDERATION


Project Name/Number: FEMA-HMGP-1816 Southern Windsor Regional Planning Commission Project, VT

Project Location: Statewide

Project Description: The Vermont Emergency Management Southern Windsor Regional Planning Commission, VT intends to provide mitigation outreach materials chosen and developed collaboratively with the State Hazard Mitigation Officer along with preparedness materials to selected audiences. Detailed documentation of the outreach materials and audiences will be provided before the grant is closed.

Project Conditions & Other Required Project Specific Conditions

1. The applicant must follow all applicable local, state, and federal laws, regulations, and requirements for the contracting of consultants and or contractors.

2. The applicant must follow all applicable local, state, and federal laws, regulations, and requirements for the release of public information. The applicant must also contact the State NFIP Coordinator for regulation of the material.

3. If deviations from the proposed scope of work result in design changes, the need for additional or result in any other unanticipated changes to the scope of work, the Grantee must contact FEMA, and a re-evaluation of the project will be discussed.

HISTORIC BUILDINGS AND STRUCTURES

☒ No historic properties that are listed or 45/50 years or older in project area. (Review Concluded)

☒ Building or structure listed or 45/50 years or older in project area and activity not exempt from review.

☐ Determination of No Historic Properties Affected (FEMA finding/SHPO/THPO concurrence on file) Are project conditions required? ☐ Yes (see section V) ☐ No (Review Concluded)

☐ Determination of Historic Properties Affected (FEMA finding/SHPO/THPO concurrence on file)

☐ Property a National Historic Landmark and National Park Service was provided early notification during the consultation process. If not, explain in comments

☐ No Adverse Effect Determination (FEMA finding/SHPO/THPO concurrence on file).

☐ Adverse Effect Determination (FEMA finding/SHPO/THPO concurrence on file)

☐ Resolution of Adverse Effect completed. (MOA on file)

Record of Environmental Consideration (02/11/2008) 1 09/24/10
Reviewer Name: Judith A. Maloney
Applicant: Vermont Emergency Management
Disaster/Emergency/Program/Project Title: FEMA-HMGP-1816 Vermont Emergency Management Southern Windsor Regional Planning Commission Outreach Project

Are project conditions required □ Yes (see section V) □ No (Review Concluded)

Comments: A determination of No Historic Properties Affected is made under the terms of the Vermont Programmatic Agreement, Appendix B, Section XII. B & E. No consultation with SHPO is required.

Correspondence/Consultation/References: VT Programmatic Agreement 8.7.02.

ARCHEOLOGICAL RESOURCES
☐ Project affects only previously disturbed ground. (Review Concluded)
☐ Project affects undisturbed ground.
☐ Project area has no potential for presence of archeological resources
□ Determination of no historic properties affected (FEMA finding/SHPO/THPO concurrence or consultation on file). (Review Concluded)
☐ Project area has potential for presence of archeological resources
□ Determination of no historic properties affected (FEMA finding/SHPO/THPO concurrence on file)
Are project conditions required □ Yes (see section V) □ No (Review Concluded)
☐ Determination of historic properties affected
□ NR eligible resources not present (FEMA finding/SHPO/THPO concurrence on file).
Are project conditions required □ Yes (see section V) □ No (Review Concluded)
☐ NR eligible resources present in project area. (FEMA finding/SHPO/THPO concurrence on file)
□ No Adverse Effect Determination. (FEMA finding/SHPO/THPO concurrence on file)
Are project conditions required? □ Yes (see section V) □ No (Review Concluded)
☐ Adverse Effect Determination. (FEMA finding/SHPO/THPO concurrence on file)
☐ Resolution of Adverse Effect completed. (MOA on file)
Are project conditions required? □ Yes (see section V) □ No (Review Concluded)

Comments: Project is a risk assessment tool.
Correspondence/Consultation/References: Project description

THREATENED AND ENDANGERED SPECIES
☐ No listed species and/or designated critical habitat present in areas affected directly or indirectly by the Federal action. (Review Concluded)
☐ Listed species and/or designated critical habitat present in the areas affected directly or indirectly by the Federal action.
□ No effect to species or designated critical habitat. (See comments for justification)
Are project conditions required? □ Yes (see section V) □ No (Review Concluded)
□ May affect, but not likely to adversely affect species or designated critical habitat (FEMA determination/USFWS/NMFS concurrence on file) (Review Concluded)

Record of Environmental Consideration (02/11/2008) 2 09/24/10
Are project conditions required?  □ Yes (see section V)  □ No (Review Concluded)
□ Likely to adversely affect species or designated critical habitat
□ Formal consultation concluded. (Biological Assessment and Biological Opinion on file)
Are project conditions required?  □ YES (see section V)  □ NO (Review Concluded)

Comments: No threatened or endangered species or critical habitat will be affected.
Correspondence/Consultation/References: Project description

E.O. 11988 – FLOODPLAINS

□ No Effect on Floodplains/Flood levels and project outside Floodplain - (Review Concluded)
□ Located in Floodplain or Effects on Floodplains/Flood levels
□ No adverse effect on floodplain and not adversely affected by the floodplain. (Review Concluded).
Are project conditions required?  □ Yes (see section V)  □ No (Review Concluded)
□ Beneficial Effect on Floodplain Occupancy/Values (Review Concluded).
□ Possible adverse effects associated with investment in floodplain, occupancy or modification of floodplain . environment
□ 8 Step Process Complete - documentation on file
Are project conditions required?  □ YES (see section V)  □ NO (Review Concluded)

Comments: Project will not affect any floodplain values.
Correspondence/Consultation/References: Project description

E.O. 11990 – WETLANDS

□ No Effects on Wetland(s) and project located outside Wetland(s) - (Review Concluded)
□ Located in Wetland or effects Wetland(s)
□ Beneficial Effect on Wetland - (Review Concluded)
□ Possible adverse effect associated with constructing in or near wetland
□ Review completed as part of floodplain review
□ 8 Step Process Complete - documentation on file
Are project conditions required?  □ YES (see section V)  □ NO (Review Concluded)

Comments: Project will not have an adverse effect any wetland values.
Correspondence/Consultation/References: Project description

E.O. 12898 - Environmental Justice for Low Income and Minority Populations

□ No Low income or minority population in, near or affected by the project - (Review Concluded)
□ Low income or minority population in or near project area
□ No disproportionately high and adverse impact on low income or minority population-
(Review Concluded)
□ Disproportionately high or adverse effects on low income or minority population

Record of Environmental Consideration (02/11/2008) 3
09/24/10
Are project conditions required? □ YES (see section V) □ NO (Review Concluded)

Comments: Project will have no disproportionate effects on the local population.

Correspondence/Consultation/References: Project description

OTHER RELEVANT LAWS AND ENVIRONMENTAL REGULATIONS

☐ No impacts to other substantive laws/Executive Orders identified. Review concluded.
☐ Other applicable substantive laws/Executive Orders. (Identify law/E.O. and conditions if any below).

Identify relevant law or regulations, resolution and any consultation/references

No extraordinary circumstances as described in 44 CFR 10.8(d)(3) were identified during project review.

REVIEWER AND APPROVALS

- FEMA Environmental Reviewer.

Name:
Signature __________________________ Date 4/10/10

FEMA Regional Environmental Officer or delegated approving official.

Name:
Signature __________________________ Date ____________________
August 23, 2010

Ms. Barbara Farr, Director
Vermont Emergency Management Agency
Dept of Public Safety
103 South Main Street
Waterbury, VT 05671-2101

SUBJECT: FEMA-DR-1816-VT
Hazard Mitigation Grant Program Project #2P
Risk Assessment Project, Two Rivers-Ottawaquchee Regional Commission, VT

Dear Ms. Farr:

Enclosed please find the Regional Environmental Officer’s Record of Environmental Consideration and the Allocation, Obligation, Financial Activity and Project Management reports for the following Hazard Mitigation Grant Program project:

1816-2P Two Rivers-Ottawaquchee Regional Commission $ 13,975
Risk Assessment Project

Total: $ 13,975

If you have any questions, please do not hesitate to call Judith Maloney at our Hazard Mitigation Office at (617) 832-4797.

Sincerely,

Kevin M. Merli, Director
Mitigation Division

Attachment
Project Review and Conditions Status

**Project Name/Number:** FEMA-HMGP-1816 Risk Assessment Project, Two Rivers-Ottauquechee Regional Planning Commission, VT

**Project Location:** Statewide

**Project Description:** The Two Rivers-Ottauquechee Regional Planning Commission, VT intends to provide a GIS model to accommodate the production of flood risk assessment inventories and maps for community officials and other stakeholders. The GIS model will be a collection of tools that use various special data sets to identify sites with flood risk. The created tools will produce new risk assessments and updated inputs to be incorporated into local mitigation plans.

Monitoring Requirements:
Quarterly Reports and final inspection of scope of work and accounting records are required.

**Funding**
Total Cost of Project: $18,633
Federal Share $13,975
Applicant Share $4,658

**Period of Performance**

If an extension of the deadline is needed, please contact the State Hazard Mitigation Officer.

- Any deviation from this scope of work, conditions or funding must be approved in advance, in writing.

- Applicants must comply with HMGP requirements, grants management procedures in 44 CFR Part 13, the grant agreement, and applicable Federal State, and lows and standards.
ABBREVIATED RECORD OF ENVIRONMENTAL CONSIDERATION


Project Name/Number: FEMA-HMGP-1816 Risk Assessment Project, Two Rivers-Ottauquechee Regional Planning Commission, VT

Project Location: Statewide

Project Description: The Two Rivers-Ottauquechee Regional Planning Commission, VT intends to provide a GIS model to accommodate the production of flood risk assessment inventories and maps for community officials and other stakeholders. The GIS model will be a collection of tools that use various special data sets to identify sites with flood risk. The created tools will produce new risk assessments and updated inputs to be incorporated into local mitigation plans.

Project Conditions & Other Required Project Specific Conditions

1. The applicant must follow all applicable local, state, and federal laws, regulations, and requirements for the contracting of consultants and or contractors.

2. The applicant must follow all applicable local, state, and federal laws, regulations, and requirements for the release of public information. The applicant must also contact the State NFIP Coordinator for regulation of the material.

3. If deviations from the proposed scope of work result in design changes, the need for additional or result in any other unanticipated changes to the scope of work, the Grantee must contact FEMA, and a re-evaluation of the project will be discussed.

HISTORIC BUILDINGS AND STRUCTURES

☐ No historic properties that are listed or 45/50 years or older in project area. (Review Concluded)
☐ Building or structure listed or 45/50 years or older in project area and activity not exempt from review.

☐ Determination of No Historic Properties Affected (FEMA finding/SHPO/THPO concurrence on file)
Are project conditions required? ☐ Yes (see section V) ☐ No (Review Concluded)

☐ Determination of Historic Properties Affected (FEMA finding/SHPO/THPO concurrence on file)
☐ Property a National Historic Landmark and National Park Service was provided early notification during the consultation process. If not, explain in comments
☐ No Adverse Effect Determination (FEMA finding/SHPO/THPO concurrence on file).
Are project conditions required? ☐ Yes (see section V) ☐ No (Review Concluded)

☐ Adverse Effect Determination (FEMA finding/SHPO/THPO concurrence on file)
☐ Resolution of Adverse Effect completed. (MOA on file)

Record of Environmental Consideration (02/11/2008) 1 08/22/10
Are project conditions required □ Yes (see section V) □ No (Review Concluded)

Comments: A determination of No Historic Properties Affected is made under the terms of the Vermont Programmatic Agreement, Appendix B, Section XII. B & E. No consultation with SHPO is required.

Correspondence/Consultation/References: VT Programmatic Agreement 8.7.02.

ARCHEOLOGICAL RESOURCES

☐ Project affects only previously disturbed ground. (Review Concluded)
☐ Project affects undisturbed ground. (Review Concluded)
☐ Project area has no potential for presence of archeological resources.
☐ Determination of no historic properties affected (FEMA finding/SHPO/THPO concurrence or consultation on file). (Review Concluded)
☐ Project area has potential for presence of archeological resources.
☐ Determination of no historic properties affected (FEMA finding/SHPO/THPO concurrence on file)
Are project conditions required □ Yes (see section V) □ No (Review Concluded)
☐ Determination of historic properties affected
☐ NR eligible resources not present (FEMA finding/SHPO/THPO concurrence on file).
Are project conditions required □ Yes (see section V) □ No (Review Concluded)
☐ NR eligible resources present in project area. (FEMA finding/SHPO/THPO concurrence on file)
☐ No Adverse Effect Determination. (FEMA finding/SHPO/THPO concurrence on file)
Are project conditions required? □ Yes (see section V) □ No (Review Concluded)
☐ Adverse Effect Determination. (FEMA finding/SHPO/THPO concurrence on file)
☐ Resolution of Adverse Effect completed. (MOA on file)
Are project conditions required? □ Yes (see section V) □ No (Review Concluded)

Comments: A determination of No Historic Properties Affected is made under the terms of the Vermont Programmatic Agreement, Appendix B, Section XII. B & E. No consultation with SHPO is required.

Correspondence/Consultation/References: VT Programmatic Agreement 8.7.02. Project description

THREATENED AND ENDANGERED SPECIES

☐ No listed species and/or designated critical habitat present in areas affected directly or indirectly by the Federal action. (Review Concluded)
☐ Listed species and/or designated critical habitat present in the areas affected directly or indirectly by the Federal action.
☐ No effect to species or designated critical habitat. (See comments for justification)

Record of Environmental Consideration (02/11/2008) 2
08/22/10
Reviewer Name: Judith A. Maloney  
Applicant: Two Rivers-Ottauquechee Reg. Pl. C., VT

Disaster/Emergency/Program/Project Title: FEMA-HMGP-1816 Two Rivers-Ottauquechee Risk Assessment Project

Are project conditions required?  □ Yes (see section V)  □ No (Review Concluded)

□ May affect, but not likely to adversely affect species or designated critical habitat (FEMA determination/USFWS/NMFS concurrence on file)  (Review Concluded)

Are project conditions required?  □ Yes (see section V)  □ No (Review Concluded)

□ Likely to adversely affect species or designated critical habitat

□ Formal consultation concluded. (Biological Assessment and Biological Opinion on file)

Are project conditions required?  □ YES (see section V)  □ NO (Review Concluded)

Comments: No threatened or endangered species or critical habitat will be affected.

Correspondence/Consultation/References: Project description

E.O. 11988 – FLOODPLAINS

X No Effect on Floodplains/Flood levels and project outside Floodplain - (Review Concluded)

□ Located in Floodplain or Effects on Floodplains/Flood levels

□ No adverse effect on floodplain and not adversely affected by the floodplain.  (Review Concluded)

Are project conditions required?  □ Yes (see section V)  □ No (Review Concluded)

□ Beneficial Effect on Floodplain Occupancy/Values (Review Concluded)

□ Possible adverse effects associated with investment in floodplain, occupancy or modification of floodplain environment

□ 8 Step Process Complete - documentation on file

Are project conditions required?  □ YES (see section V)  □ NO (Review Concluded)

Comments: Project will not affect any floodplain values.

Correspondence/Consultation/References: Project description

E.O. 11990 – WETLANDS

X No Effects on Wetland(s) and project located outside Wetland(s) - (Review Concluded)

□ Located in Wetland or effects Wetland(s)

□ Beneficial Effect on Wetland - (Review Concluded)

□ Possible adverse effect associated with constructing in or near wetland

□ Review completed as part of floodplain review

□ 8 Step Process Complete - documentation on file

Are project conditions required?  □ YES (see section V)  □ NO (Review Concluded)

Comments: Project will not affect any wetland values.

Correspondence/Consultation/References: Project description

E.O. 12898 - Environmental Justice for Low Income and Minority Populations

X No Low income or minority population in, near or affected by the project - (Review Concluded)

□ Low income or minority population in or near project area

Record of Environmental Consideration (02/11/2008)  3  08/22/10
Reviewer Name: Judith A. Maloney  
Applicant: Two Rivers-Ottauquechee Reg. Pl. C., VT  
Disaster/Emergency/Program/Project Title: FEMA-HMGP-1816 Two Rivers-Ottauquechee Risk Assessment Project

☐ No disproportionately high and adverse impact on low income or minority population  
(Review Concluded)

☐ Disproportionately high or adverse effects on low income or minority population

Are project conditions required? ☐ YES (see section V) ☐ NO (Review Concluded)

Comments: Project will have no disproportionate effects on the local population.

Correspondence/Consultation/References: Project description

OTHER RELEVANT LAWS AND ENVIRONMENTAL REGULATIONS

☒ No impacts to other substantive laws/Executive Orders identified. Review concluded.
☒ Other applicable substantive laws/Executive Orders. (Identify law/E.O. and conditions if any below).

Identify relevant law or regulations, resolution and any consultation/references

No extraordinary circumstances as described in 44 CFR 10.8(d)(3) were identified during project review.

REVIEWER AND APPROVALS

FEMA Environmental Reviewer.
Name: 
Signature ___________________________ Date 02/17/09

FEMA Regional Environmental Officer or delegated approving official.
Name: 
Signature ___________________________ Date ___________________
September 7, 2010

Ms. Barbara Farr, Director
Vermont Emergency Management Agency
Dept of Public Safety
103 South Main Street
Waterbury, VT 05671-2101

SUBJECT: FEMA-DR-2016-VT
Hazard Mitigation Grant Program Project #4R
Brook Road Stabilization Project, Town of Windsor, VT

Dear Ms. Farr:

Enclosed please find the Regional Environmental Officer's Record of Environmental Consideration and the Allocation, Obligation, Financial Activity and Project Management reports for the following Hazard Mitigation Grant Program project:

1816-4R Town of Windsor
Brook Road Stabilization Project $ 41,760

Total: $ 41,760

If you have any questions, please do not hesitate to call Judith Maloney at our Hazard Mitigation Office at (617) 832-4797.

Sincerely,

Kevin M. Nash, Director
Mitigation Division

Attachment

www.fema.gov
Project Review and Conditions Status

Project Name/Number: FEMA HMGP- 1816 – Brook Road Stabilization, Windsor, VT

Project Location: Brook Road, near Estey Lane, adjacent to Mill Brook
Latitude: 43.275121 Longitude: -72.252415

Project Description: The proposal is to stabilize about 600 to 1000 feet of the embankment of Mill Brook with 24” and 48” rip rap according to the enclosed diagram, and replace the guardrail and posts to prevent further damage to the road and erosion of the embankment into the brook.

Environmental Review Project Conditions

General comments: N/A

1. If ground disturbing activities occur during implementation, the applicant will monitor excavation activity, and if any artifacts or human remains are found during the excavation process all work is to cease and the applicant will notify FEMA, Grantee, and SHPO/THPO.

2. The applicant must follow all applicable local, state, and federal laws, regulations, and requirements for the abatement and disposal of lead, asbestos, and other routinely encountered hazardous substances. If there is an unusual material encountered or there is an extraordinary amount of lead, asbestos, or other routinely encountered material the applicant must contact the Grantee and the Grantee must contact FEMA. The applicant must also contact the relevant agency with authority for regulation of the material.

3. If deviations from the proposed scope of work result in design changes, the need for additional ground disturbance, additional removal of vegetation, or result in any other unanticipated changes to the physical environment, the Grantee must contact FEMA, and a re-evaluation under NEPA and other applicable environmental laws will be conducted by FEMA.

Other Required Project Specific Conditions

1. The applicant is required to obtain any applicable permits with the New Hampshire Department of Environmental Protection and the U.S. Army Corps of Engineers if this project is located in a wetland or has an effect on a wetland. All conditions of any permit acquired become conditions of this grant, and a copy of such permit(s) should be forwarded to FEMA.

2. The culvert must be constructed in such a way as to not inhibit the movement of aquatic organisms, particularly fish. The culvert invert must be place
approximately 6" in the streambed or an arch or bottomless structure must be used.

3. As long as the appropriate soil erosion/siltation control measures and the best management practices for roads and culverts (e.g. placing culvert inverts at or slightly below grade in the bed of the stream to accommodate fish passage, working during low flow summer periods, etc.) are utilized, harm to fish and wildlife will be minimized.

4. The applicant must seed, mulch, and replant any disturbed ground with native shrubs and vegetation. A special effort shall be made to plant native vegetation at higher bank elevations.

5. The applicant must ensure that best managing practices for roads and culverts are utilized, and installation of erosion control. Construction activities that result in disturbed ground must be protected against erosion into the stream. The Town must follow the Clean Water Act's: "Best Management Practices, BMP" for erosion control during construction of this project. This includes, the applicant applying for all local, state, and federal permits and easements necessary to complete the project and obtaining these permits prior to commencement of any work. Any conditions of these permits become conditions of this grant, project, and environmental review. In accordance with FEMA Guidelines, applicants are required to comply with the federal law provisions of: the Water Pollution Control Act, as amended; Section 10 of the Rivers and Harbors Act; and Section 404 of the Clean Water Act, requirements regarding acquisition of appropriate permits or determinations from the U.S. Army Corps of Engineers (USACE) for projects funded by FEMA. All correspondence (including copies of any permits issued by USACE) regarding these determinations should be coordinated with and copies forwarded to FEMA. The applicant must follow all applicable local, state, and federal laws, regulations, and requirements and/or obtain proper local, state, and federal permit concerning this project. Any conditions of this process or these regulations, laws, and policies become conditions of this grant, project, and environmental review.

Monitoring Requirements:
Quarterly Reports and final inspection of scope of work and accounting records are required.

1. As long as the appropriate soil erosion/siltation control measures and the best management practices for roads and culverts (e.g. placing culvert inverts at or slightly below grade in the bed of the stream to accommodate fish passage, working during low flow summer periods, etc.) are utilized, harm to fish and wildlife will be minimized.
2. The applicant must seed, mulch, and replant any disturbed ground with native shrubs and vegetation. A special effort shall be made to plant native vegetation at higher bank elevations.

3. Commence work during low flow period.

4. Reroute or stop the flow of water into the project site.

5. If necessary, dewater the project site.

6. Excavate unsuitable wash material from site.

7. Remove erosion control measures after the construction area has been stabilized.

Funding
Total Cost of Project: $ 55,680
Federal Share $ 41,760
Applicant Share $ 13,920

All permits must be obtained and forwarded to FEMA before any work begins.

- Any deviation from this scope of work, conditions or funding must be approved in advance, in writing.

- Applicants must comply with HMGP requirements, grants management procedures in 44 CFR Part 13, the grant agreement, and applicable Federal State, and laws and standards.
Record of Environmental Consideration


Project Name/Number: FEMA HMGP- 1816 -- Brook Road Stabilization, Windsor, VT

Project Location: The project is on Brook Road near Estey Lane and adjacent to Mill Brook.
Latitude: 43.275121 Longitude: -72.252415

Project Description: The proposal is to stabilize about 600 to 1000 feet of the embankment of Mill Brook with 24" and 48" rip rap according to the enclosed diagram and replace the guardrail and posts to prevent further damage to the road and erosion of the embankment into the brook.

Documentation Requirements

☐ No Documentation Required (Review Concluded)

☐ (Short version) All consultation and agreements implemented to comply with the National Historic Preservation Act, Endangered Species Act, and Executive Orders 11988, 11990 and 12898 are completed and no other laws apply.
(Review Concluded)

☒ (Long version) All applicable laws and executive orders were reviewed. Additional information for compliance is attached to this REC.

National Environmental Policy Act (NEPA) Determination

☐ Statutorily excluded from NEPA review. (Review Concluded)

☒ Categorical Exclusion - Category (xv & xvi) Type Single Project
   ☒ No Extraordinary Circumstances exist.
      Are project conditions required? ☒ Yes (see section V) ☐ No (Review Concluded)

☐ Extraordinary Circumstances exist (See Section IV).
   ☐ Extraordinary Circumstances mitigated. (See Section IV comments)
      Are project conditions required? ☐ Yes (see section V) ☒ No (Review Concluded)

☐ Environmental Assessment required. See FONSI for determination, conditions and approval.

Comments: This is a project within the area of previously disturbed ground.

Correspondence/Consultation/References: Project Description. Based on information provided by the grantee, the scope of work for this project qualifies as a Categorical Exclusion (CATEX) under 44 CFR Part 10.8 (d)(2)(xv &xvi)

Reviewer and Approvals

FEMA Environmental Reviewer
Name: Judith A. Maloney
Signature: ___________ Date 7-27-10

FEMA Regional Environmental Officer or delegated approving official

Record of Environmental Consideration 03/05/07
I. Compliance Review for Environmental Laws (other than NEPA)

A. National Historic Preservation Act

- **Not type of activity with potential to affect historic properties.** *(Review Concluded)*
- **Applicable executed Programmatic Agreement.** Otherwise, conduct standard Section 106 review.

<table>
<thead>
<tr>
<th>Activity meets Programmatic Allowance # B, I, B; II, A, &amp; B</th>
<th>Are project conditions required?</th>
<th>Yes (see section V)</th>
<th>No <em>(Review Concluded)</em></th>
</tr>
</thead>
</table>

**HISTORIC BUILDINGS AND STRUCTURES**

- **No historic properties 50 years or older in project area.** *(Review Concluded)*

<table>
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<tr>
<th>Building or structure 50 years or older in project area and activity not exempt from review.</th>
<th>Are project conditions required?</th>
<th>Yes (see section V)</th>
<th>No <em>(Review Concluded)</em></th>
</tr>
</thead>
</table>

**ARCHEOLOGICAL RESOURCES**

- **Project affects only previously disturbed ground.** *(Review Concluded)*

<table>
<thead>
<tr>
<th>Project affects undisturbed ground.</th>
<th>Are project conditions required?</th>
<th>Yes (see section V)</th>
<th>No <em>(Review Concluded)</em></th>
</tr>
</thead>
</table>

**Endangered Species Act**

- **No listed species and/or designated critical habitat present in the action area.** *(Review Concluded)*

<table>
<thead>
<tr>
<th>Listed species and/or designated critical habitat present in the action area</th>
<th>Are project conditions required?</th>
<th>Yes (see comments for justification) <em>(Review Concluded)</em></th>
</tr>
</thead>
</table>

Comments: Project meets programmatic agreement allowances. No consultation is required.

Correspondence/Consultation/References: FEMA, VEM, SHPO Programmatic Agreement dated 2002.
Reviewer Name: Judith A. Priatoney  
Applicant: Town of Windsor, VT  
Disaster/Emergency/Program/Project Title: FEMA HMC P-1816- Brook Road Stabilization

☐ May affect, but not likely to adversely affect species or designated critical habitat (FEMA determination/USFWS/NMFS concurrence on file) (Review Concluded)
☐ Likely to adversely affect species or designated critical habitat
☐ Formal consultation concluded. (Biological Assessment and Biological Opinion on file)
Are project conditions required? ☐ YES (see section V) ☐ NO (Review Concluded)

Comments: No Listed Species and/or designated critical habitat present in areas affected directly or indirectly by the federal action.

Correspondence/Consultation/References: U.S. Fish and Wildlife Service Endangered Species website and VT Fish and Game Nongame and Natural Heritage Program website.

C. Coastal Barrier Resources Act
☒ Project is not located in Coastal Barriers Resource System or Otherwise Protected Area.
☒ Project does not affect a coastal barrier within the COBRA System (regardless of in or out) (Review Concluded)
☐ Project is located in a coastal barrier system and/or affects a coastal barrier. (FEMA determination/USFWS consultation on file)
☐ Proposed action an exception under Section 350.5 a.6? (Review Concluded)
☐ Proposed action not excepted under Section 350.5 a.6.
Are project conditions required? ☐ YES (see section V) ☐ NO (Review Concluded)

Comments: This project is not in or near a coastal area.

Correspondence/Consultation/References: Coastal Barrier Resources Act, N.E. maps.

D. Clean Water Act
☐ Project site located outside of and would not affect any waters of the U.S. (Review Concluded)
☒ Project site located in or would affect waters, including wetlands, of the U.S.
☐ Project exempted as in kind replacement or other exemption. (Review Concluded)
☒ Project may require Section 404/401/10 permit, including qualification under Nationwide Permits.
Are project conditions required? ☒ YES (see section V) ☐ NO (Review Concluded)

Comments: This project may require permits from appropriate local, State, and Federal agencies. Additionally, construction activities that result in disturbed ground must be protected against erosion into the stream. The Town must follow the Clean Water Act, “Best Management Practices BMP”. The Town must contact the U.S. Army Corps of Engineers to inquire if a permit is required. The Town will need to obtain all necessary permits from relevant state agencies after the project specifications have been completed and before work begins.

Correspondence/Consultation/References: Section 404 of the Clean Water Act, (Re: determinations and acquisition of appropriate permits), and local Conservation Commission regulations.

E. Coastal Zone Management Act
☐ Project does not affect a coastal zone area (regardless of in or out)- (Review concluded)
☒ Project is not located in a coastal zone area – (Review concluded)
☐ Project is located in a coastal zone area and/or affects the coastal zone
☐ State administering agency does not require consistency review. (Review Concluded)
☐ State administering agency requires consistency review.
Are project conditions required? ☒ YES (see section V) ☐ NO (Review Concluded)

Comments: N/A - this project is not in or near a coastal area.

Correspondence/Consultation/References: Google Earth: see: dm/ of Vermont.

F. Fish and Wildlife Coordination Act
☒ Project is not located in or affects a waterway/body of water. (Review Concluded)
☐ Project affects, controls or modifies a waterway/body of water.
☐ Coordination with USFWS conducted
☐ No Recommendations offered by USFWS. (Review Concluded)

Record of Environmental Consideration 03/05/07
Disaster/Emergency/Program/Project Title: FEMA HMGP-1816- Brook Road Stabilization

- Recommendations provided by USFWS. Are project conditions required? □ YES (see section V) □ NO (Review Concluded)

**Comments:** No Listed Species and/or designated critical habitat resent in areas affected directly or indirectly by the federal action.
**Correspondence/Consultation/References:** U.S. Fish and Wildlife Service Endangered Species web site and VT Fish and Game Nongame and Natural Heritage Program web site.

### G. Clean Air Act

- Project will not result in permanent air emissions. (Review Concluded)
- Project located in an attainment area. (Review Concluded)

- Coordination required with applicable state administering agency. Are project conditions required? □ YES (see section V) □ NO (Review Concluded)

**Comments:** Any emissions from construction equipment will be temporary in nature. Only minimal, temporary dust and increased emissions from construction vehicles caused by a routine construction project might occur.
**Correspondence/Consultation/References:** project description

### H. Farmlands Protection Policy Act

- Project does not affect prime or unique farmland. (Review Concluded)
- Project causes unnecessary or irreversible conversion of prime or unique farmland.

- Coordination with Natural Resource Conservation Commission required. Are project conditions required? □ YES (see section V) □ NO (Review Concluded)

**Comments:** No commitment of farmlands. No intrusion into existing farmland will occur.
**Correspondence/Consultation/References:** See project description.

### I. Migratory Bird Treaty Act

- Project not located within a flyway zone. (Review Concluded)
- Project located within a flyway zone.

- Project does not have potential to take migratory birds. (Review Concluded)
- Project has potential to take migratory birds.

- Contact made with USFWS Are project conditions required? □ YES (see section V) □ NO (Review Concluded)

**Comments:** N/A This project will not result in the migratory taking of birds.
**Correspondence/Consultation/References:** The Migratory Bird Treaty Act and Executive Order 13186, project description

### J. Magnuson-Stevens Fishery Conservation and Management Act

- Project not located in or near Essential Fish Habitat. (Review Concluded)

- Project located in or near Essential Fish Habitat.

- Project does not adversely affect Essential Fish Habitat. (Review Concluded)
- Project adversely affects Essential Fish Habitat (FEMA determination/USFWS/NMFS concurrence on file)

- NOAA Fisheries provided no recommendation(s) (Review Concluded).
- NOAA Fisheries provided recommendation(s)

- Written reply to NOAA Fisheries recommendations completed. Are project conditions required? □ YES (see section V) □ NO (Review Concluded)

**Record of Environmental Consideration** 4

03/05/07
Memo

To: David Beatty
From: Tracy O’Connell
Date: 10/25/10
CC: file
Re: Request for Grant Acceptance

Attached you will find a Request for Grant Acceptance for the Hazard Mitigation Grant Program, Disasters #1784 and #1816, received from FEMA.

If you have any questions, please contact me at 802-241-5574 or toconnel@dps.state.vt.us.

Thank you.
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<th>FEMA Project Number</th>
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**Comments**

Date: 09/23/2010  User Id: JMALONE2

Comment: allocation of $50,614 approved

Date: 09/23/2010  User Id: RNADEAU1

Comment: HMO approves allocation of $50,614

**Authorization**

Preparer Name: JUDITH MALONEY  Preparation Date: 09/23/2010

HMO Authorization Name: ROBERT NADEAU  HMO Authorization Date: 09/23/2010
### HAZARD MITIGATION GRANTS PROGRAM

#### Allocation Request with Signature

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**Comments**

Date: 09/23/2010  
User Id: JMALONE2  
Comment: allocation of $50,614 approved

Date: 09/23/2010  
User Id: RNADEAU1  
Comment: HMO approves allocation of $50,614

**Authorization**

Preparer Name: JUDITH MALONEY  
Preparation Date: 09/23/2010

HMO Authorization Name: ROBERT NADEAU  
HMO Authorization Date: 09/23/2010

[Signature]

Authorizing Official Title

[Signature]

Authorizing Official Title

[Authorization Date]
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Subgrantee: Fairfield (Town of)  
Subgrantee FIPS Code: 011-25225  
Project Title: Ryan Road Stabilization, Fairfield, VT

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<tr>
<th>Total Amount</th>
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<th>Total Amount</th>
<th>Total Amount</th>
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</thead>
<tbody>
<tr>
<td>Previously Allocated</td>
<td>Previously Obligated</td>
<td>Pending Obligation</td>
<td>Available for New Obligation</td>
</tr>
<tr>
<td>$50,614</td>
<td>$50,614</td>
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<tr>
<th>Project Amount</th>
<th>Grantee Admin Est</th>
<th>Subgrantee Admin Est</th>
<th>Total Obligation</th>
<th>IFMIS Date</th>
<th>IFMIS Status</th>
<th>FY</th>
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<tbody>
<tr>
<td>$50,614</td>
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<td>$50,614</td>
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<td>Accept</td>
<td>2010</td>
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**Comments**

- Date: 09/27/2010  
  User Id: JMALONE2  
  Comment: obligation of $50,614 approved

- Date: 09/27/2010  
  User Id: RNADEAU1  
  Comment: HMO approves obligation of $50,614

**Authorization**

Preparer Name: JUDITH MALONEY  
Preparation Date: 09/27/2010

HMO Authorization Name: ROBERT NADEAU  
HMO Authorization Date: 09/27/2010
### FeeMarker: FEMA HANGRYOGRANT PROGRAM Obligation Report w/ Signatures

<table>
<thead>
<tr>
<th>Disaster No</th>
<th>FEMA Project No</th>
<th>Amendment No</th>
<th>State Application ID</th>
<th>Action No</th>
<th>Supplemental No</th>
<th>State</th>
<th>Grantee</th>
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<tbody>
<tr>
<td>1816</td>
<td>6-R</td>
<td>0</td>
<td>2</td>
<td>1</td>
<td>6</td>
<td>VT</td>
<td>Statewide</td>
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**Subgrantee:** Fairfield (Town of)  
**Subgrantee FIPS Code:** 011-25225  
**Project Title:** Ryan Road Stabilization, Fairfield, VT

<table>
<thead>
<tr>
<th>Total Amount Previously Allocated</th>
<th>Total Amount Previously Obligated</th>
<th>Total Amount Pending Obligation</th>
<th>Total Amount Available for New Obligation</th>
</tr>
</thead>
<tbody>
<tr>
<td>$50,614</td>
<td>$50,614</td>
<td>$0</td>
<td>$0</td>
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**Project Amount**  
**Grantee Admin Est**  
**Subgrantee Admin Est**  
**Total Obligation**  
**IFMIS Date**  
**IFMIS Status**  
**FY**

| $50,614 | $0 | $0 | $50,614 | 09/27/2010 | Accept | 2010 |

**Comments**

- **Date:** 09/27/2010  
  **User Id:** J MALONE2  
  **Comment:** obligation of $50,614 approved

- **Date:** 09/27/2010  
  **User Id:** RNADEAU1  
  **Comment:** HMO approves obligation of $50,614

**Authorization**

- **Preparer Name:** JUDITH MALONEY  
  **Preparation Date:** 09/27/2010

- **HMO Authorization Name:** ROBERT NADEAU  
  **HMO Authorization Date:** 09/27/2010

- **Authorizing Official Signature**  
  **Authorizing Official Title**  
  **Authorization Date:** 9/27/10

- **Authorizing Official Signature**  
  **Authorizing Official Title**  
  **Authorization Date**
Mitigation Project Description

Amendment Status: Approved

Project Title: Ryan Road Stabilization, Fairfield, VT

Grantee: Statewide

Grantee County Name: Franklin
Grantee County Code: 11
Grantee Place Name: Fairfield (Town of)
Grantee Place Code: 0

FIPS Code: 011-25225

Project Closeout Date: 00/00/0000

Work Schedule Status

<table>
<thead>
<tr>
<th>Amend #</th>
<th>Description</th>
<th>Time Frame</th>
<th>Due Date</th>
<th>Revised Date</th>
<th>Completion Date</th>
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</thead>
<tbody>
<tr>
<td>0</td>
<td>Re-shaping/re-grading roadway</td>
<td>2 days</td>
<td>00/00/0000</td>
<td>00/00/0000</td>
<td>00/00/0000</td>
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<tr>
<td>1</td>
<td>Re-shaping/re-grading roadway</td>
<td>2 days</td>
<td>00/00/0000</td>
<td>00/00/0000</td>
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<tr>
<td>2</td>
<td>Excavation for stone-filled shoulder</td>
<td>3 days</td>
<td>00/00/0000</td>
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<td>3</td>
<td>Excavation for stone-filled shoulder</td>
<td>3 days</td>
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<tr>
<td>4</td>
<td>Application of Geotextile Fabric and Type 1 Stone fill</td>
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<tr>
<td>6</td>
<td>Paving Bituminous Surface</td>
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<td>7</td>
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<tr>
<td>8</td>
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<td>9</td>
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Approved Amounts

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<th>Federal Share Percent</th>
<th>Total Approved Federal Share Amount</th>
<th>Non-Federal Share Percent</th>
<th>Total Approved Non-Fed Share Amount</th>
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Allocations

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<th>Submission Date</th>
<th>FY</th>
<th>ES Support Req ID</th>
<th>ES Support ES Amend Number</th>
<th>Proj Alloc Amount</th>
<th>Grantee Admin Amount</th>
<th>Subgrantee Admin Amount</th>
<th>Total Alloc Amount</th>
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<td>09/24/2010</td>
<td>09/23/2010</td>
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Total $50,614 $0 $0 $50,614

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<th>IFMIS Date</th>
<th>Submission Date</th>
<th>FY</th>
<th>ES Support Req ID</th>
<th>ES Support ES Amend Number</th>
<th>Suppl Nr</th>
<th>Project Obligated Amt - Fed Share</th>
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<th>Subgrantee Admin Amount</th>
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<td>2010</td>
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Total $50,614 $0 $0 $50,614
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<th>State: VT</th>
<th>Region: I</th>
<th>Declaration Date: 01/14/2009</th>
<th>Grantee: Statewide</th>
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<table>
<thead>
<tr>
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<th>Projected</th>
<th>Total Allocated in NEMIS</th>
<th>Available</th>
<th>Total Obligated in NEMIS</th>
<th>Available</th>
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<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
<td>C (A - B)</td>
<td>D</td>
<td>E (A - D)</td>
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<tr>
<td>HMGP Project Funds</td>
<td>$211,628</td>
<td>$144,562</td>
<td>$67,066</td>
<td>$144,562</td>
<td>$67,066</td>
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<tr>
<td>Regular Projects</td>
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<td>$60,334</td>
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<td>Initiative Projects</td>
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<td>$5,893</td>
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<td>Planning Projects</td>
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<td>$13,978</td>
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<tr>
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<td>$144,562</td>
<td>$67,066</td>
<td>$144,562</td>
<td>$67,066</td>
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<tr>
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<td>$0</td>
<td>$10,349</td>
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<td>$144,562</td>
<td>$77,415</td>
<td>$144,562</td>
<td>$77,415</td>
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</table>

For disasters declared on or after 11/13/2007:

HMGP Project funds = Regular Projects + Initiative Projects + Planning Projects.
State Management Cost is separate from the HMGP Project Funds.
State of Vermont
Hazard Mitigation Grant Program
Project Application

Part 1: Applicant Information

<table>
<thead>
<tr>
<th>FEMA Disaster Code:</th>
<th>FEMA-DR-1816 VT</th>
<th>Date Submitted:</th>
<th>10/30/2009</th>
</tr>
</thead>
</table>

**Applicant Name:**
TOWN OF FAIRFIELD

**County:**
Franklin

**Name of Local Hazard Mitigation Plan:**
Town of Fairfield Hazard Mitigation Plan

**Date of FEMA approval of Local Plan:**
Pending

**Federal Tax ID Number:**
03-6003260

**Primary Contact Information**

<table>
<thead>
<tr>
<th>Name:</th>
<th>Jim Smith</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title:</td>
<td>Project Coordinator</td>
</tr>
<tr>
<td>Organization:</td>
<td>Town of Fairfield</td>
</tr>
<tr>
<td>Mailing Address:</td>
<td>66 Diamond St., St. Albans, VT, 05478</td>
</tr>
<tr>
<td>Work Phone Number:</td>
<td>802-524-4456</td>
</tr>
<tr>
<td>Alternate Phone Number:</td>
<td>802-752-5379</td>
</tr>
<tr>
<td>Fax Number:</td>
<td>802-524-4456</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:jim.smith66@comcast.net">jim.smith66@comcast.net</a></td>
</tr>
</tbody>
</table>

**Secondary Contact Information**

<table>
<thead>
<tr>
<th>Name:</th>
<th>Amanda Forbes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title:</td>
<td>Town Clerk &amp; Treasurer</td>
</tr>
<tr>
<td>Organization:</td>
<td>Town of Fairfield</td>
</tr>
<tr>
<td>Mailing Address:</td>
<td>P.O. Box 5, Fairfield, VT, 05455</td>
</tr>
<tr>
<td>Work Phone Number:</td>
<td>802-827-3281</td>
</tr>
<tr>
<td>Alternate Phone Number:</td>
<td></td>
</tr>
<tr>
<td>Fax Number:</td>
<td>802-827-3053</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:townoffairfield@auroralocal.net">townoffairfield@auroralocal.net</a></td>
</tr>
</tbody>
</table>

Part 2: Problem Description

**Location of Project:**
Latitude: 44.811° N, Longitude: 72.903° W

**Identify adjacent roads/streets and bodies of water:**
Ryan Rd. is adjacent to VT Route 36 and borders Black Creek

**Required Maps:**
- Local General Highway Map (attached)
- Flood Insurance Rate Map with panel number (attached)
- Topographic Map (attached)

**Problem Statement:**
(What's Happening?)
The Ryan road is one of several Town Highways that are flooded by Black Creek, which runs through town toward the Missisquoi River. Flooding occurs as Black Creek rises and swells over its banks and then overtopping the Ryan Road causing erosion damage to the gravel surface and edges. So far this year calendar year this has happened three times, twice in the month of May. With each event there is erosion to the road and repetitive repair costs to the town of Fairfield. Testimony from Road Foreman indicated the Town has a high water event on this road four times each year on average. The option to raise the road grade would be counter productive to the flood mitigation efforts of the 2007 Agency of Natural Resources projects that lowered the existing railroad bed and upgraded railroad cross outfalls.

**Supporting Documentation:**
Photos, Engineering Studies, Site Diagrams

**Part 2: Problem Description continued**

**Statement of Damages**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Description of Direct Damages</th>
<th>Description of Indirect Damages</th>
<th>Cost of Damage</th>
</tr>
</thead>
<tbody>
<tr>
<td>06/01/07 - 08/01/07</td>
<td>8 Events</td>
<td>Clean up debris and replace road surface and shoulders with gravel. Labor, Equipment and Material costs are $9,129. Repairs Road Embankment and related damages in July 2009 are $7941.</td>
<td></td>
<td>$17,080.00</td>
</tr>
<tr>
<td>06/01/07 - 05/01/09</td>
<td>8 Events</td>
<td>Road Closed for 8 Days +/-, Detour distance around is 8 miles. Assume 112 vehicles / day at 8 miles each = 895 miles @ $0.50/mile = $447.50 per day X 8 = $3580.40.</td>
<td></td>
<td>$3,942.40</td>
</tr>
</tbody>
</table>
### Part 3: Project Objective

**Project Objective**

The Town's plan is to "Flood Proof" the Ryan Road to reduce or eliminate the repetitive damage and cost to the town.

### Part 4: Analysis of Alternative Solutions

#### Alternative Solutions

<table>
<thead>
<tr>
<th>Alternative Solution</th>
<th>Brief Title</th>
<th>Description of Alternative</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Raise to road grade.</td>
<td>Raise the road grade by filling to a height Black Creek would not overtop the road. This alternative was not recommended by Vt. Dept. of Environmental Conservation as they are in a Flood Plain partnership with the Lamoille Valley RR Rail Trail and property owners to lower the rail bed to allow water in the flood plain.</td>
</tr>
<tr>
<td>2</td>
<td>Flood Proof the Highway</td>
<td>Plan to stabilize the roadbed would include regrading the highway, constructing an Stone Fill Geotextile wrapped road shoulder on the downstream side of the road, apply Bituminous Concrete surface to the road and erect delineators to the road edges for safety.</td>
</tr>
<tr>
<td>3</td>
<td>No Action</td>
<td>No Action</td>
</tr>
</tbody>
</table>

**Supporting Documentation:**

- Yes: Did any of the alternatives have significant impacts or limitations?
  - Yes: If Yes, provide additional information concerning these impacts
  - Is the information attached?

**Preferred Alternative:** Alternative 2

**Justification:** After a Selectman's meeting with Chris Brouelle, Stream Alterations Engineer with the Vt. Dept of Environmental Conservation, it was recommended that the Town not pursue Alternative Solution 1, as it would have a negative effect on the efforts in place for flood plain management of the old Lamoille Valley RR (Trail) and adjacent property owners.

### Part 5: Project Description

**Project Description**

Proposal is to stabilize the roadbed which would include regrading/reshaping the highway, constructing an Stone Fill Geotextile wrapped road shoulder on the downstream side of the road, apply Bituminous Concrete surface to the road and erect delineators on the road edges for safety during high water should emergency vehicles need to pass. The Town Road Crew will construct and maintain the project under the supervision of the Road Foreman or his designee, who reports to the Town of Fairfield Selectboard.

**Expected Life of Project:** 30 years with limited maintenance.

**Supporting Documentation:**

- Yes: Photos
- Yes: Engineering Studies
- Yes: Site Diagrams

#### Project Costs for Preferred Alternative

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit Qty.</th>
<th>Unit Measurement</th>
<th>Unit Cost</th>
<th>Cost Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Attached Estimate</td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Project Cost Estimate:** $67,485.00

### Summary of Project Costs

<table>
<thead>
<tr>
<th>Item</th>
<th>Total Project Costs</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>$67,485.00</td>
</tr>
<tr>
<td>B</td>
<td>FEMA Share (75% of Line A)</td>
</tr>
<tr>
<td>---</td>
<td>---------------------------</td>
</tr>
<tr>
<td>C</td>
<td>Local Share (25% of Line A)</td>
</tr>
<tr>
<td></td>
<td>Note: The sum of lines 1-3 must equal Line C</td>
</tr>
<tr>
<td></td>
<td>1. Cash</td>
</tr>
<tr>
<td></td>
<td>2. In-Kind Service</td>
</tr>
<tr>
<td></td>
<td>3. Other</td>
</tr>
<tr>
<td>D</td>
<td>Total Local Share (Equal to Line C)</td>
</tr>
<tr>
<td>E</td>
<td>Total Project Costs (Line B + Line C)</td>
</tr>
</tbody>
</table>

Identify source of local non-federal match:

### Part 6: Benefit/Cost Analysis

<table>
<thead>
<tr>
<th>Description</th>
<th>Days to Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reshaping/grading roadway</td>
<td>2</td>
</tr>
<tr>
<td>Excavation for stone fill shoulder</td>
<td>3</td>
</tr>
<tr>
<td>Application of Geotextile Fabric and Type I Stone fill</td>
<td>3</td>
</tr>
<tr>
<td>Paving Bituminous Surface</td>
<td>1</td>
</tr>
<tr>
<td>Seed, Mulch, cleanup and install delineators</td>
<td>1</td>
</tr>
</tbody>
</table>

Estimated Project Cost: $67,485
Future Maintenance costs for life of project: $350,000

Total Cost = $117,485

Years of Damage: 2.08333
Annualized Damages: $10,090.77
Expected Life of Project: 50

Anticipated Damages without project over time = Annualized damages × Expected life of project

Benefit/Cost Ratio: BCA = 1.68 - From (Limited Data Module)

Only projects with a benefit/cost ratio of 1.0 or greater will be considered. If your project meets that criteria, continue through the next sections of the application.

### Part 7: Scope of Work

- Task Description: Days to Complete
  - Reshaping/grading roadway: 2
  - Excavation for stone fill shoulder: 3
  - Application of Geotextile Fabric and Type I Stone fill: 3
  - Paving Bituminous Surface: 1
  - Seed, Mulch, cleanup and install delineators: 1

### Part 8: Technical Confirmation

- Supporting Documentation: (Attach)
- Has the hydrology/hydraulics/structural design of this project been endorsed by the local Highway District Engineer, Local Stream Alteration Engineer, a Consulting Engineer or other Technical Experts? 
  - [ ] Yes
  - [ ] No

### Part 9: Authorized Signature

I certify that I am the authorized agent for the applicant and have responsibility for the development and completion of this application and all the information contained herein is true and accurate.

Authorized Agent's Signature: Amanda Forbes
Date: 10/20/09
<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
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<th>No. of Units</th>
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<tr>
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</tr>
<tr>
<td>Operator</td>
<td>Hr.</td>
<td>$25.00</td>
<td>26</td>
<td>$650.00</td>
</tr>
<tr>
<td>Foreman</td>
<td>Hr.</td>
<td>$25.00</td>
<td>24</td>
<td>$600.00</td>
</tr>
<tr>
<td><strong>Materials</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Stone Fill - Type 1</td>
<td>C.Y.</td>
<td>$14.00</td>
<td>380</td>
<td>$5,320.00</td>
</tr>
<tr>
<td>Gravel</td>
<td>C.Y.</td>
<td>$10.00</td>
<td>500</td>
<td>$5,000.00</td>
</tr>
<tr>
<td>Filter Fabric</td>
<td>S.Y.</td>
<td>$2.00</td>
<td>1120</td>
<td>$2,240.00</td>
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<tr>
<td>Bituminous Concrete</td>
<td>Tons</td>
<td>$85.00</td>
<td>500</td>
<td>$42,500.00</td>
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<td>Delineator Posts &amp; Reflectors</td>
<td>ea.</td>
<td>$25.00</td>
<td>20</td>
<td>$500.00</td>
</tr>
<tr>
<td>Seed</td>
<td>LB.</td>
<td>$2.00</td>
<td>15</td>
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<tr>
<td>Mulch</td>
<td>Bale</td>
<td>$3.00</td>
<td>20</td>
<td>$60.00</td>
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<tr>
<td>Project Layout and Inspection</td>
<td>L.S.</td>
<td>$500.00</td>
<td>1</td>
<td>$500.00</td>
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<tr>
<td>Traffic Control</td>
<td>L.S.</td>
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<td><strong>Total</strong></td>
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<td>$67,485.00</td>
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</table>
Town of Fairfield - Cost Repair Summary
Ryan Road Flooding Repairs from June 1, 2007 - July 30, 2009 as reported by Road Foreman - Rodney Judd

<table>
<thead>
<tr>
<th>Labor:</th>
<th>Units</th>
<th>No. of Units</th>
<th>Unit Cost ( Inc. FB)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment Operator</td>
<td>Hr.</td>
<td>24</td>
<td>$33.00</td>
<td>$792.00</td>
</tr>
<tr>
<td>Truck Driver</td>
<td>Hr.</td>
<td>56</td>
<td>$30.00</td>
<td>$1,680.00</td>
</tr>
<tr>
<td>Foreman</td>
<td>Hr.</td>
<td>24</td>
<td>$37.50</td>
<td>$900.00</td>
</tr>
<tr>
<td>Project Coordinator</td>
<td>Hr.</td>
<td>11</td>
<td>$28.00</td>
<td>$308.00</td>
</tr>
<tr>
<td><strong>Total Labor</strong></td>
<td></td>
<td></td>
<td></td>
<td>$3,372.00</td>
</tr>
</tbody>
</table>

| Equipment:                  |       |              |                      |            |
| Tandem Truck                | Hr.   | 59           | $75.00               | $4,425.00  |
| Loader                      | Hr.   | 16           | $60.00               | $960.00    |
| Grader                      | Hr.   | 10           | $80.00               | $800.00    |
| **Total Equip.**            |       |              |                      | $6,185.00  |

| Rented Equipment:           |       |              |                      |            |
| Haverluck - Excavator       | Hr.   | 15.5         | $90.00               | $1,395.00  |
| Reed - Excavator            | Hr.   | 15           | $80.00               | $1,200.00  |
|                            |       |              |                      | $2,595.00  |

| Material:                   |       |              |                      |            |
| 3/4 in. Stone               | Cubic Yd. | 84     | $12.50               | $1,050.00  |
| Rockfine                    | Cubic Yd. | 84     | $10.50               | $882.00    |
| Gravel                      | Cubic Yd. | 336    | $8.00                | $2,688.00  |
| **Total Material**          |       |              |                      | $4,620.00  |

Total estimated cost for 25 months = $17,080.00

Total estimated cost per year: $8,198.40

Total estimated cost per event: $2,135.00
Town of Fairfield  
Ryan Road Repair Costs from June 1, 2007 - July 30, 2009 as reported by Road Foreman - Rod. Judd

<table>
<thead>
<tr>
<th>Units</th>
<th>No. of Units</th>
<th>Unit Cost (Inc. FB)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Labor:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equipment Operator</td>
<td>Hr. 24</td>
<td>$33.00</td>
<td>$792.00</td>
</tr>
<tr>
<td>Truck Driver</td>
<td>Hr. 27</td>
<td>$30.00</td>
<td>$810.00</td>
</tr>
<tr>
<td>Foreman</td>
<td>Hr. 8</td>
<td>$37.50</td>
<td>$300.00</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Total Labor</td>
<td></td>
<td></td>
<td>$1,902.00</td>
</tr>
</tbody>
</table>

| **Equipment:** |              |                     |   |
| Tandem Truck   | Hr. 27      | $75.00 | $2,025.00 | (2008 FEMA Rates) |
| Loader         | Hr. 16      | $60.00 | $960.00  | (2008 FEMA Rates) |
| Grader         | Hr. 8       | $80.00 | $640.00  | (2008 FEMA Rates) |
|                |              |                     |   |
| Total Equip.   |              |                     | $3,625.00 |

| **Material:**  |              |                     |   |
| 3/4 in. Stone  | Cubic Yd. 84 | $12.50 | $1,050.00 | (2009 prices) |
| Rockfine       | Cubic Yd. 84 | $10.50 | $882.00  | (2009 prices) |
| Gravel         | Cubic Yd. 210| $8.00  | $1,680.00| (2009 prices) |
|                |              |                     |   |
| Total Material |              |                     | $3,612.00 |

Total estimated cost for 8 events: $9,139.00
### Town of Fairfield

#### Ryan Road Repair Costs July 2009 Damage as reported by Road Foreman

<table>
<thead>
<tr>
<th>Units</th>
<th>No. of Units</th>
<th>Unit Cost (Inc. FB)</th>
<th>Labor Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Truck Drivers</td>
<td>Hr.</td>
<td>29</td>
<td>$30.00</td>
</tr>
<tr>
<td>Foreman</td>
<td>Hr.</td>
<td>16</td>
<td>$37.50</td>
</tr>
<tr>
<td>Project Coordinator</td>
<td>Hr.</td>
<td>11</td>
<td>$28.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Total Labor</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Units</th>
<th>No. of Units</th>
<th>Unit Cost (Inc. FB)</th>
<th>Equipment Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tandem Truck</td>
<td>Hr.</td>
<td>32</td>
<td>$75.00</td>
</tr>
<tr>
<td>Grader</td>
<td>Hr.</td>
<td>2</td>
<td>$80.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Total Equip.</strong></td>
</tr>
</tbody>
</table>

**Rented Equipment:**

<table>
<thead>
<tr>
<th>Units</th>
<th>No. of Units</th>
<th>Unit Cost (Inc. FB)</th>
<th>Equipment Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Haverluck - Excavator</td>
<td>Hr.</td>
<td>15.5</td>
<td>$90.00</td>
</tr>
<tr>
<td>Reed - Excavator</td>
<td>Hr.</td>
<td>15</td>
<td>$80.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Total Rented Equipment</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Units</th>
<th>No. of Units</th>
<th>Unit Cost (Inc. FB)</th>
<th>Material Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gravel</td>
<td>Cubic Yd.</td>
<td>126</td>
<td>$8.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Total Material</strong></td>
</tr>
</tbody>
</table>

**Total estimated cost for repair.** **$7,941.00**
July 31, 2009

Town of Fairfield
Attn: Selectman Chair
P.O. Box 5
Fairfield, VT 05455

Subject: Ryan Road Flood Stabilization Plan

Dear Selectman Chair,

I have reviewed the Flood Stabilization Plan proposal that the Town of Fairfield is applying for on Ryan Road, TH #31. I strongly support the town's proposal on this section of road, plan attached. A very similar stabilization plan was constructed in a neighboring town and the outcome was very successful with minimal cost.

The proposed work that the town wants to perform on Ryan Road will improve the water quality and also reduce town cost due to damage from frequent high water occurrences. This plan should minimize or even eliminate any future road damage in this area.

If you have any questions, feel free to contact me at (802)524-5926.

Sincerely,

[Signature]
Randy J. Reed
District Project Manager

Cc: District 8 File
Jim Smith, Smith Technical Services
Town of Fairfield
Ryan Road - Flood Stabilization Plan

3' crushed Stone

Geotextile Filter Fabric

Type I Stone Fill

Level w/gravel

Bituminous Concrete Pavement
Base - 2.5"
Top - 1.5"

River Flow Direction

TOWN OF FAIRFIELD - RYAN ROAD

DRAWN BY: J. Smith - Highway Technician
CHECKED BY: J. Smith - Highway Technician
DATE: 9/15/09
SCALE: NTS

SMITH TECHNICAL SERVICES
Name: FAIRFIELD
Date: 6/19/109
Scale: 1 inch equals 1995 feet
Location: 044° 48' 39.4" N 072° 54' 12.0" W
Caption: Proposed Hazard Mitigation Project
KEY TO SYMBOLS

ZONE C

ZONE DESIGNATIONS:

01 02
CORPORATE LIMITS

03 04

EXPLANATION OF ZONE DESIGNATIONS

A flood insurance map displays the zone designations for a community according to areas of designated flood hazards. The zone designations used by FEMA are:

- Zone A: Areas of 100-year flood: base flood elevations and flood hazard factors not determined.
- Zone AO: Areas of 100-year flood with flood risk not determined.
- Zone AR: Areas of 100-year flood with flood risk not determined.
- Zone A30: Areas of 100-year flood with flood risk determined.
- Zone A99: Areas of 100-year flood to be revised for flood protection system not determined.
- Zone B: Areas between limits of 100-year flood and 500-year flood, areas of 100-year shallow flooding where depths less than 1 foot.
- Zone C: Areas outside 500-year flood.
- Zone II: Areas of undetermined, but possible, flood hazards.
- Zone V: Areas of 100-year coastal flood with wave action: base flood elevations and flood hazard factors not determined.
- Zone V1-V30: Areas of 100-year coastal flood with wave action: base flood elevations and flood hazard factors determined.

NOTES TO USER:

Certain areas not in the special flood hazard areas zones A and V may be protected by flood control structures.

This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community. All planning measures outside special flood hazard areas shall be consistent with the Flood Insurance Rate Map Effective Date shown on the map or determined when actual flood risk exists to structures in the area where flood data or depths have been established.

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program at 1-800-368-9368.

INITIAL IDENTIFICATION JANUARY 10, 1975

FLOOD HAZARD BOUNDARY MAP REVISIONS: OCTOBER 1, 1975

FLOOD INSURANCE RATE MAP EFFECTIVE: SEPTEMBER 27, 1975

FLOOD INSURANCE RATE MAP REVISIONS:

federal emergency management agency

FIRM
FLOOD INSURANCE RATE MAP 01-25
MAP INDEX

TOWN OF FAIRFIELD, VT
FRANKLIN COUNTY
COMMUNITY NUMBER 500053B
## Limitation Data Module

**Benefit-Cost Analysis of Flood Mitigation Projects**

### Project Information

<table>
<thead>
<tr>
<th>Disaster Number</th>
<th>DSR Number</th>
<th>Project Address</th>
<th>City, State, Zip</th>
</tr>
</thead>
<tbody>
<tr>
<td>DR 1816</td>
<td></td>
<td>P.O. Box 636, S. Franklin, NY</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>DSR Category</th>
<th>DSR Subject</th>
<th>County</th>
<th>Project Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Stabilize roadbed, incl. regrading/reshaping road, constructing stone fill, geotextile wrapped road shoulder, apply Bituminous Concrete surface to road and erect delineators on road edges for safety of first response vehicles.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inspection Date</th>
<th>Application Date</th>
<th>Analysis Date</th>
<th>Analyst</th>
</tr>
</thead>
</table>

### Economic Factors:

- **Discount Rate (%)**: 7.00
- **Present Value Coefficient**: 13.80

### Net Mitigation Project Cost:

- **Notes**: Project estimates included in grant packet, based on current costs.

- **Additional Annual Maintenance Cost ($/year) for Mitigation Project**: $81,286
- **Present Value of Additional Annual Maintenance Cost ($)**: $13,801

### Total Mitigation Project Cost

**TOTAL MITIGATION PROJECT COST**: $81,286

### Type of Facility

**Type of Facility (for Loss of Function)**: Approximately 4,000 ft. of Class 3 Town Highway (unpaved)

### Facility Description

**Loss of Function for Roads/Bridges**

- **Estimated Number of One-Way Traffic Trips Per Day**: 112
- **Estimated Detour Time Per One Way Trip (hours)**: 0.23
- **Total Economic Loss Per Hour of Delay**: Ordinary, commercial, and emergency traffic

**Economic Loss Per Day of Loss Function of Bridge or Road**: $992
### FLOOD HISTORY

Estimated Frequency of Declared Flood Event (Years)

#### Data Sources and Documentation

Town of Fairfield Highway Foreman reported that Ryan Road flooding has occurred at least once annually for approximately 30 years. The Town has records for damage repairs to the road for the past 3 years (see grant application). In 2006, Ryan Road was closed due to flood damages three times (24 in May).

Agency of Natural Resources has documentation on file regarding flooding in this area. VEM documentation as well.

### DAMAGES BEFORE MITIGATION

<table>
<thead>
<tr>
<th>Flood Frequency Events (Years)</th>
<th>Scenario Flood Damages</th>
<th>Loss of Function Time and Dollars</th>
<th>TOTAL Damages and Losses</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>road repair</td>
<td>home</td>
<td>business</td>
</tr>
<tr>
<td>1</td>
<td>$8119</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>2</td>
<td>$619</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>3</td>
<td>$2196</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>4</td>
<td>$1200</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>5</td>
<td>$810</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>6</td>
<td>$620</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>7</td>
<td>$420</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>8</td>
<td>$220</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>9</td>
<td>$120</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>10</td>
<td>$80</td>
<td>$0</td>
<td>$0</td>
</tr>
</tbody>
</table>

Total Annualized Damages $11,810

#### Data Sources and Documentation

Town of Fairfield records.

State of VT; Vermont Emergency Management Agency of Natural Resources files.

Note: Damage and losses are based on existing town records.

### DAMAGES AFTER MITIGATION

<table>
<thead>
<tr>
<th>Flood Frequency Events (Years)</th>
<th>Scenario Flood Damages</th>
<th>Loss of Function Time and Dollars</th>
<th>TOTAL Damages and Losses</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>road repair</td>
<td>home</td>
<td>business</td>
</tr>
<tr>
<td>1</td>
<td>$8119</td>
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<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>10</td>
<td>$80</td>
<td>$0</td>
<td>$0</td>
</tr>
</tbody>
</table>

Total Annualized Damages $1,902

#### Data Sources and Documentation

Town of Fairfield Road Foreman estimates that annual maintenance over 50 year life expectancy of road.

Paving cost estimates are difficult to predict over the next 30-60 years, even 3 to 5 years.

Estimate repairing the section of road surface 3 to 5 times over 50 years based on road degradation to similar roads in the area at $50,000 (over 50 year period = $1,000/yr).
**SUMMARY OF BENEFITS AND COSTS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Expected Annual</th>
<th>Present Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expected Annual Damages Before Mitigation</td>
<td>$11,810</td>
<td>$162,981</td>
</tr>
<tr>
<td>Expected Annual Damages After Mitigation</td>
<td>$1,902</td>
<td>$26,255</td>
</tr>
<tr>
<td>Expected Avoided Damages After Mitigation (BENEFITS)</td>
<td>$9,907</td>
<td>$136,726</td>
</tr>
<tr>
<td>PROJECT COSTS</td>
<td>$81,286</td>
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<tr>
<td>PROJECT BENEFITS</td>
<td></td>
<td>$136,726</td>
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<tr>
<td>BENEFITS MINUS COSTS</td>
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<td>$55,440</td>
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<tr>
<td>BENEFIT-COST RATIO</td>
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<td>1.68</td>
</tr>
</tbody>
</table>

**Data Sources and Documentation**

See grant application for breakdown of cost damages and cost repair from June 1, 2007 to July 30, 2009.

FEMA Disclaimer: The results produced by this analysis are neither conclusive evidence that a proposed project is cost-effective, nor a guarantee that a project is eligible for any government grant for whatever purpose.
### BEFORE MITIGATION

<table>
<thead>
<tr>
<th>Flood Frequency Events (Years)</th>
<th>TOTAL Damages and Losses</th>
<th>Flood Frequency Range</th>
<th>Annualized Damages And Losses</th>
<th>Slopes (m)</th>
<th>y intercept</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>11810</td>
<td>1 - 2</td>
<td>6904.78</td>
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<td>2</td>
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<td>2 - 3</td>
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<td>11810</td>
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<td>11810</td>
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<td>0.00</td>
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<td>5</td>
<td>11810</td>
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<td>11810</td>
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<td>11810</td>
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<td>11810</td>
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<tr>
<td>500</td>
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<td>&gt; 500</td>
<td>23.62</td>
<td>0.00</td>
<td>11809.5649</td>
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<td><strong>Total</strong></td>
<td><strong>11809.56</strong></td>
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### AFTER MITIGATION

<table>
<thead>
<tr>
<th>Flood Frequency Events (Years)</th>
<th>TOTAL Damages and Losses</th>
<th>Flood Frequency Range</th>
<th>Annualized Damages And Losses</th>
<th>Slopes (m)</th>
<th>y intercept</th>
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<tbody>
<tr>
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<td>1902</td>
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BEFORE MITIGATION

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<th>Scenario Flood Damages</th>
<th>Loss of Function Time and Dollars</th>
<th>TOTAL Damages and Losses</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>road repair</td>
<td>home</td>
<td>business</td>
</tr>
<tr>
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AFTER MITIGATION

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</thead>
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## Allocation Request

**Disaster Number:** 1816  
**Allocation Number:** 5  
**IFMIS Status:** Accept  
**IFMIS Date:** 09/15/2010

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<tr>
<td>5 - F</td>
<td>0</td>
<td>6</td>
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**TOTALS**  
$4,688  
$0  
$4,688

### Comments

- **Date:** 09/15/2010  
  **User Id:** RNADEAU1  
  **Comment:** HMO approves allocation of $4,688

- **Date:** 09/14/2010  
  **User Id:** JMALONE2  
  **Comment:** allocation $4,688 approved

### Authorization

- **Preparer Name:** JUDITH MALONEY  
  **Preparation Date:** 09/14/2010

- **HMO Authorization Name:** ROBERT NADEAU  
  **HMO Authorization Date:** 09/15/2010
<table>
<thead>
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**TOTALS**

$4,688 $0 $4,688

**Comments**

Date: 09 / 15 / 2010 User Id: RNADEAU1
Comment: HMO approves allocation of $4,688

Date: 09 / 14 / 2010 User Id: JMALONE2
Comment: allocation $4,688 approved

**Authorization**

Preparer Name: JUDITH MALONEY
Preparation Date: 09/14/2010

HMO Authorization Name: ROBERT NADEAU
HMO Authorization Date: 09/15/2010

Authorizing Official Signature

Authorizing Official Title

Authorization Date
FEDERAL EMERGENCY MANAGEMENT AGENCY
HAZARD MITIGATION GRANT PROGRAM

Obligation

<table>
<thead>
<tr>
<th>Disaster No</th>
<th>FEMA Project No</th>
<th>Amendment No</th>
<th>State Application ID</th>
<th>Action No</th>
<th>Supplemental No</th>
<th>State</th>
<th>Grantee</th>
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</thead>
<tbody>
<tr>
<td>1816</td>
<td>5-F</td>
<td>0</td>
<td>6</td>
<td>1</td>
<td>5</td>
<td>VT</td>
<td>Statewide</td>
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Subgrantee: Statewide
Subgrantee FIPS Code: 000-00000

Project Title: VT EMA So Windsor RPC Outreach

<table>
<thead>
<tr>
<th>Total Amount</th>
<th>Total Amount</th>
<th>Total Amount</th>
<th>Total Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Previously Allocated</td>
<td>Previously Obligated</td>
<td>Pending Obligation</td>
<td>Available for New Obligation</td>
</tr>
<tr>
<td>$4,688</td>
<td>$4,688</td>
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<td>$0</td>
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<table>
<thead>
<tr>
<th>Project Amount</th>
<th>Grantee Admin Est</th>
<th>Subgrantee Admin Est</th>
<th>Total Obligation</th>
<th>IFMIS Date</th>
<th>IFMIS Status</th>
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Comments

Date: 09/16/2010  User Id: SBELL7
Comment: HMO approves obligation of $4,688.

Date: 09/16/2010  User Id: JMALONE2
Comment: obligation of $4,688 approved

Authorization

Preparer Name: JUDITH MALONEY  Preparation Date: 09/16/2010

HMO Authorization Name: SAMUEL BELL  HMO Authorization Date: 09/16/2010
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<th>Disaster No</th>
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<th>Amendment No</th>
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<th>Action No</th>
<th>Supplemental No</th>
<th>State</th>
<th>Subgrantee</th>
<th>Project Title</th>
<th>Subgrantee FIPS Code</th>
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</thead>
<tbody>
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<td>5-F</td>
<td>0</td>
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<td>1</td>
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<td>VT</td>
<td>Statewide</td>
<td>VT EMA So Windsor RPC Outreach</td>
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**Total Amount Previously Allocated**: $4,688

**Total Amount Previously Obligated**: $4,688

**Total Amount Pending Obligation**: $0

**Total Amount Available for New Obligation**: $0

**Project Amount** | **Grantee Admin Est** | **Subgrantee Admin Est** | **Total Obligation** | **IFMIS Date** | **IFMIS Status** | **FY**
---|---|---|---|---|---|---
$4,688 | $0 | $0 | $4,688 | 09/16/2010 | Accept | 2010

**Comments**

Date: 09/16/2010  
User Id: SBELL7  
Comment: HMO approves obligation of $4,688.

Date: 09/16/2010  
User Id: JMALONE2  
Comment: obligation of $4,688 approved

**Authorization**

Preparer Name: JUDITH MALONEY  
Preparation Date: 09/16/2010

HMO Authorization Name: SAMUEL BELL  
HMO Authorization Date: 09/16/2010

[Signature]

Authorization Date: 9/24/10
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<th>Available C (A - B)</th>
<th>Total Obligated in NEMIS</th>
<th>Available E (A - D)</th>
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<td>$93,948</td>
<td>$117,680</td>
<td>$93,948</td>
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<tr>
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<td>$93,948</td>
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<td>$93,948</td>
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</table>

For disasters declared on or after 11/13/2007:

HMGP Project funds = Regular Projects + Initiative Projects + Planning Projects.
State Management Cost is separate from the HMGP Project Funds.
### Mitigation Project Description

**Amendment Status:** Approved  
**Approval Status:** Approved

**Project Title:** VT EMA So Windsor RPC Outreach

**Grantee:** Statewide  
**Subgrantee:** Statewide

**Grantee County Name:** Statewide  
**Subgrantee County Name:** Statewide

**Grantee County Code:** 0  
**Subgrantee County Code:** 0

**Grantee Place Name:** Statewide  
**Subgrantee Place Name:** Statewide

**Grantee Place Code:** 0  
**Subgrantee Place Code:** 0

**Project Closeout Date:** 00/00/0000

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<th>Description</th>
<th>Time Frame</th>
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<th>Revised Date</th>
<th>Completion Date</th>
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### Approved Amounts

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<th>Federal Share Percent</th>
<th>Federal Share Amount</th>
<th>Non-Federal Share Percent</th>
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### Allocations

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<th>IFMIS Date</th>
<th>Submission Date</th>
<th>ES Support Ref ID</th>
<th>ES Amend Number</th>
<th>Proj Alloc Amount</th>
<th>Grantee Admin Amount</th>
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**Total:** $4,688

### Obligations

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<th>Action Nr</th>
<th>IFMIS Status</th>
<th>IFMIS Date</th>
<th>Submission Date</th>
<th>ES Support Ref ID</th>
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<th>Suppl Nd</th>
<th>Project Obligated Amt - Fed Share</th>
<th>Grantee Admin Amount</th>
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**Total:** $4,688
**State of Vermont**  
**Hazard Mitigation Grant Program**  
**Project Application**

**Part 1:**  
**Applicant Information**

<table>
<thead>
<tr>
<th><strong>Applicant Name:</strong></th>
<th>Southern Windsor County Regional Planning Commission</th>
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</thead>
<tbody>
<tr>
<td><strong>County:</strong></td>
<td>Windsor</td>
</tr>
<tr>
<td><strong>Name of Local Hazard Mitigation Plan:</strong></td>
<td>Southern Windsor County Region All Hazards Mitigation Plan</td>
</tr>
<tr>
<td><strong>Date of FEMA approval of Local Plan:</strong></td>
<td>Regional Plan approved 7.28.06</td>
</tr>
</tbody>
</table>

**Primary Contact Information**

- **Name:** John Broker-Campbell  
- **Title:** Planner  
- **Organization:** Southern Windsor County Regional Planning Commission  
- **Mailing Address:** P.O. Box 320, Ascutney, VT 05030  
- **Work Phone Number:** 802-674-9201  
- **Fax Number:** 802-674-5711  
- **Email:** jcampbell@swcrpc.org

**Secondary Contact Information**

- **Name:** Tom Kennedy  
- **Title:** Executive Director  
- **Organization:** Southern Windsor County Regional Planning Commission  
- **Mailing Address:** P.O. Box 320, Ascutney, VT 05030  
- **Work Phone Number:** 802-674-9201  
- **Fax Number:** 802-674-5711  
- **Email:** tkennedy@swcrpc.org

**Part 2:**  
**Problem Description**

<table>
<thead>
<tr>
<th><strong>Location of Project:</strong></th>
<th>Latitude: N/A</th>
<th>Longitude: N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Identify adjacent roads/streets and bodies of water:</strong></td>
<td>Southern Windsor County main rivers include: Black, Connecticut, Williams</td>
<td></td>
</tr>
</tbody>
</table>

**Required Maps:**

- [ ] Local General Highway Map *(attached)*
- [ ] Flood Insurance Rate Map with panel number *(attached)*
- [ ] Topographic Map *(attached)*

**Problem Statement:**

All ten towns within the Southern Windsor County Region have adopted FEMA approved Pre-Disaster Mitigation Plans, these plans identify all potential threats and hazards to the region. Through coordination with local schools, SWCRPC will conduct outreach on preparedness to better inform and educate school age children about the need and importance of being prepared.

**Supporting Documentation:**

- [ ] Photos  
- [ ] Engineering Studies  
- [ ] Site Diagrams

**Part 2:**  
**Problem Description continued**
## Part 3: Project Objective

### Project Objective

Educate middle school age children on the importance about being prepared and conduct outreach to schools to inform both staff and children about emergency planning and preparedness.

## Part 4: Analysis of Alternative Solutions

### Alternative Solutions

<table>
<thead>
<tr>
<th>Alternative Solution</th>
<th>Brief Title</th>
<th>Description of Alternative</th>
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</thead>
<tbody>
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<tr>
<td>3</td>
<td>No Action</td>
<td>No Action</td>
</tr>
</tbody>
</table>

### Supporting Documentation

- [ ] Yes

- If Yes, provide additional information concerning these impacts
- Is the information attached?
- [ ] Yes
- Hydrology/ hydraulics reports, if applicable
- [ ] Yes
- Supporting documentation for the alternatives (i.e. drawings, designs, pictures)
- Attached

### Preferred Alternative

- N/A

### Chosen Alternative

- N/A

### Justification

- N/A
The Southern Windsor County Regional Planning Commission will coordinate with the local middle schools to develop a short program and presentation on emergency preparedness. The focus for the presentation will be on the importance of preparedness and how to best supply yourself and family in the event of an emergency. Simple take home checklists and tools will be developed to assist students with understanding and implementing the strategies developed.

<table>
<thead>
<tr>
<th>Expected Life of Project</th>
<th>January 2010 - December 2010</th>
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</thead>
</table>

**Supporting Documentation:**
- Photos
- Engineering Studies
- Site Diagrams

### Project Costs for Preferred Alternative

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<th>Unit Measurement</th>
<th>Unit Cost</th>
<th>Cost Estimate</th>
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Total Project Cost Estimate $5,990.00

### Summary of Project Costs

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<tr>
<td>B</td>
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<tr>
<td>C</td>
<td>Local Share (25% of Line A)</td>
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<td>D</td>
<td>Total Local Share (Equal to Line C)</td>
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<td>E</td>
<td>Total Project Costs (Line B + Line D)</td>
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Identify source of local non-federal match:
### Part 6: Benefit/Cost Analysis

<table>
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<tr>
<th>Estimated Project Cost</th>
<th>N/A</th>
<th>Future Maintenance costs for life of project</th>
<th>N/A</th>
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<td>Total Cost = Project Cost + Future Maintenance</td>
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<tr>
<td>Benefit/Cost Ratio = Anticipated Loss or Benefit / Total Cost</td>
<td></td>
<td>Benefit/Cost Ratio</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Only those projects with a benefit-cost ratio of 1.0 or greater will be considered; please attach a separate benefit cost analysis (BCA). Planning applications do not require a BCA.

### Part 7: Scope of Work

<table>
<thead>
<tr>
<th>Task Description</th>
<th>Days to Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Develop presentations for schools</td>
<td>2</td>
</tr>
<tr>
<td>Set up meeting times and locations</td>
<td>2</td>
</tr>
<tr>
<td>Conduct presentation at Riverside Middle School and Weathersfield School</td>
<td>2</td>
</tr>
<tr>
<td>Update SWCRPC and LEPC 3 website with information on preparedness</td>
<td>1</td>
</tr>
</tbody>
</table>

### Part 8: Technical Confirmation

<table>
<thead>
<tr>
<th>Supporting Documentation: (Attach)</th>
<th>□</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Has the hydrology/hydraulics/structural design of this project been endorsed by the local Vtrans District Engineer, ANR Stream Alteration Engineer, consulting engineer or other technical expert?</td>
<td></td>
</tr>
<tr>
<td>Supporting letter(s) (attached)</td>
<td></td>
</tr>
</tbody>
</table>

### Part 9: Authorized Signature

I certify that I am the authorized agent for the applicant and have responsibility for the development and completion of this application and all the information contained herein is true and accurate.

Authorized Agent's Signature | Date
## HAZARD MITIGATION GRANT PROGRAM
### Allocation Request

**Disaster Number:** 1816  
**Allocation Number:** 1  
**IFMIS Status:** Accept  
**IFMIS Date:** 08/19/2010

<table>
<thead>
<tr>
<th></th>
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<th></th>
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<tr>
<td>2 - P</td>
<td>0</td>
<td>4</td>
<td>2010</td>
<td>$13,975</td>
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<td>$0</td>
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<td>$13,975</td>
<td>$13,975</td>
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</table>

**Comments**

- **Date:** 08/19/2010  
  **User Id:** JMALONE2  
  **Comment:** ALLOCATION OF $13,975 APPROVED BY MA

- **Date:** 08/19/2010  
  **User Id:** KHAYES3  
  **Comment:** allocation of $13,975 approved by HMO

**Authorization**

- **Preparer Name:** JUDITH MALONEY  
  **Preparation Date:** 08/19/2010

- **HMO Authorization Name:** KAREN HAYES  
  **HMO Authorization Date:** 08/19/2010
Disaster Number: 1816  
Allocation Number: 1  
IFMIS Status: Accept  
IFMIS Date: 08/19/2010

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
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<td>$0</td>
<td>$0</td>
<td>$13,975</td>
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</table>

**TOTALS**  
$13,975 $0 $13,975

**Comments**  
Date: 08/19/2010  
User Id: JMALONE2  
Comment: ALLOCATION OF $13,975 APPROVED BY MA

Date: 08/19/2010  
User Id: KHAYES3  
Comment: allocation of $13,975 approved by HMO

**Authorization**  
Preparer Name: JUDITH MALONEY  
HMO Authorization Name: KAREN HAYES  
Preparation Date: 08/19/2010  
HMO Authorization Date: 08/19/2010

Authorizing Official Signature: [Signature]  
Authorizing Official Title: [Title]  
Authorization Date: 08/23/10
### Obligation

<table>
<thead>
<tr>
<th>Disaster No</th>
<th>FEMA Project No</th>
<th>Amendment No</th>
<th>State Application ID</th>
<th>Action No</th>
<th>Supplemental No</th>
<th>State</th>
<th>Grantee</th>
</tr>
</thead>
<tbody>
<tr>
<td>1816</td>
<td>2-P</td>
<td>0</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>VT</td>
<td>Statewide</td>
</tr>
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</table>

Subgrantee: TOW-RIVERS-OTTAUQUECHEE REGIONAL COI  
Project Title: Risk assessment tool for PDM Planning  
Subgrantee FIPS Code: 017-UJ9MS

<table>
<thead>
<tr>
<th>Total Amount Previously Allocated</th>
<th>Total Amount Previously Obligated</th>
<th>Total Amount Pending Obligation</th>
<th>Total Amount Available for New Obligation</th>
</tr>
</thead>
<tbody>
<tr>
<td>$13,975</td>
<td>$13,975</td>
<td>$0</td>
<td>$0</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Project Amount</th>
<th>Grantee Admin Est</th>
<th>Subgrantee Admin Est</th>
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<th>IFMIS Date</th>
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<tbody>
<tr>
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<td>2010</td>
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**Comments**

Date: 08/20/2010  
User Id: SBELL7  
Comment: HMO approves obligation of $13,975 approved by MA

Date: 08/20/2010  
User Id: JMALONE2  
Comment: obligation of $13,975 approved by MA

**Authorization**

Preparer Name: JUDITH MALONEY  
Preparation Date: 08/20/2010

HMO Authorization Name: SAMUEL BELL  
HMO Authorization Date: 08/20/2010
Subgrantee: TOW-RIVERS-OTTAUQEHEE REGIONAL COI  Project Title: Risk assessment tool for PDM Planning
Subgrantee FIPS Code: 017-UJ9MS

---

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<tr>
<th>Disaster No</th>
<th>FEMA Project No</th>
<th>Amendment No</th>
<th>State Application ID</th>
<th>Action No</th>
<th>Supplemental No</th>
<th>State</th>
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<th>Subgrantee:</th>
<th>Subgrantee FIPS Code</th>
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</thead>
<tbody>
<tr>
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<td>2-P</td>
<td>0</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>VT</td>
<td>Statewide</td>
<td>TOW-RIVERS-OTTAUQEHEE REGIONAL COI</td>
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<table>
<thead>
<tr>
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<th>Total Amount Previously Obligated</th>
<th>Total Amount Pending Obligation</th>
<th>Total Amount Available for New Obligation</th>
</tr>
</thead>
<tbody>
<tr>
<td>$13,975</td>
<td>$13,975</td>
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<td>$0</td>
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</table>

<table>
<thead>
<tr>
<th>Project Amount</th>
<th>Total Obligation</th>
<th>IFMIS Date</th>
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</tr>
</thead>
<tbody>
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<td>$13,975</td>
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<td>Accept</td>
<td>2010</td>
</tr>
</tbody>
</table>

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**Comments**

Date: 08/20/2010  User Id: SBELL7
Comment: HMO approves obligation of $13,975 approved by MA

Date: 08/20/2010  User Id: JMALONE2
Comment: obligation of $13,975 approved by MA

---

**Authorization**

Preparer Name: JUDITH MALONEY
Preparation Date: 08/20/2010

HMO Authorization Name: SAMUEL BELL
HMO Authorization Date: 08/20/2010

[Signature]

Authorizing Official Title: [Title]
Authorization Date: 8/23/10
FEDERAL EMERGENCY MANAGEMENT AGENCY
HAZARD MITIGATION GRANT PROGRAM
Project Management Report

Mitigation Project Description

Amendment Status : Approved
Project Title : Risk assessment tool for PDM Planning
Grantee : Statewide
Subgrantee : TOW-RIVERS-OTTAUQUECHEE REGIONAL

Grantee County Name : Orange
Grantee County Code : 17
Grantee Place Name : Orange (County)
Grantee Place Code : 0
Project Closeout Date : 00/00/0000

Work Schedule Status

<table>
<thead>
<tr>
<th>Amend #</th>
<th>Description</th>
<th>Time Frame</th>
<th>Due Date</th>
<th>Revised Date</th>
<th>Completion Date</th>
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</thead>
<tbody>
<tr>
<td>0</td>
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<td>00/00/0000</td>
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Approved Amounts

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<tr>
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<th>Federal Share Percent</th>
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<th>Non-Federal Share Percent</th>
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<tr>
<td>$18,633</td>
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Allocations

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<th>IFMIS Date</th>
<th>Submission Date</th>
<th>ES Support Req ID</th>
<th>ES Support Req Date</th>
<th>ES Amend Number</th>
<th>Proj Alloc Amount Fed Share</th>
<th>Grantee Admin Amount</th>
<th>Subgrantee Admin Amount</th>
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<td>1</td>
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<td>08/19/2010</td>
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<td>$13,975</td>
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Obligations

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<th>IFMIS Date</th>
<th>Submission Date</th>
<th>ES Support Req ID</th>
<th>ES Amend Number</th>
<th>Suppl Nr</th>
<th>Project Obligated Amt - Fed Share</th>
<th>Grantee Admin Amount</th>
<th>Subgrantee Admin Amount</th>
<th>Total Obligated Amount</th>
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<td>1</td>
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<td>08/20/2010</td>
<td>08/20/2010</td>
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<td>$0</td>
<td>$13,975</td>
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<td>Available</td>
<td>Total Obligated in NEMIS</td>
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<tr>
<td></td>
<td>A</td>
<td>B</td>
<td>C (A - B)</td>
<td>D</td>
<td>E (A - D)</td>
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<td>$164,128</td>
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<td><strong>$164,128</strong></td>
<td><strong>$47,500</strong></td>
<td><strong>$164,128</strong></td>
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<tr>
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<td><strong>$174,477</strong></td>
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</tr>
</tbody>
</table>

For disasters declared on or after 11/13/2007:

HMGP Project funds = Regular Projects + Initiative Projects + Planning Projects.
State Management Cost is separate from the HMGP Project Funds.
State of Vermont
Hazard Mitigation Grant Program
Project Application

FEMA Disaster Code: FEMA- DR- 1816 VT Date Submitted: 10/29/2009

Part 1: Applicant Information

Applicant Name: Two Rivers-Ottawaquechee Regional Commission

County: Windsor, Rutland, Addison, Orange

Name of Local Hazard Mitigation Plan: TRORC Regional PDM Plan

Date of FEMA approval of Local Plan: 9/30/2008

Federal Tax ID Number: 30224910

Primary Contact Information

Name: Pete Fellows, CPM
Title: GIS Manager
Organization: Two Rivers-Ottawaquechee Regional Commission
Mailing Address: 3117 Rose Hill, Woodstock, VT 05091
Work Phone Number: 802-457-3188 Alternate Phone Number:
Fax Number: 802-457-4728 Email: pfellows@trorc.org

Secondary Contact Information

Name: Ned Swanberg, CPM
Title: VT DEC Flood Hazard Map Modernization Program Coordinator
Organization: Vermont Department of Environmental Conservation
Mailing Address: 103 South Main Street, Building 10 North, Waterbury, VT 05671-0408
Work Phone Number: 802-241-4596 Alternate Phone Number:
Fax Number: Email: ned.swanberg@state.vt.us

Part 2: Problem Description

Location of Project: Latitude: NA Longitude: NA (in decimals)

Identify adjacent roads/streets and bodies of water: Entire commission area: I-89 bisects region SE to NW. Main rivers include White, Connecticut, Ompompanoosuc, Wells, Tweed, and Ottawaquechee

Required Maps:

- Local General Highway Map (attached)
- Flood Insurance Rate Map with panel number (attached)
- Topographic Map (attached)

Problem Statement: (What's Happening?)

Flooding is the most frequent type of natural disaster in Vermont. It causes the highest monetary amount of property and infrastructure damage of any natural disaster type and a significant portion of this damage is to municipal infrastructure. Communities have difficulty understanding the risks to public infrastructure as well as to their citizens because of the confusing variety of flood data available. These data are in different formats and it is difficult for small communities to develop simple risk assessments of town and private properties for their planning and budgetary needs. Communities need a simple way to assess these risks and regional and state officials need tools to produce and update these risk assessments.

Supporting Documentation: (Attach)

- Photos
- Engineering Studies
- Site Diagrams
### Part 2: Problem Description

**Statement of Damages**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Description of Direct Damages</th>
<th>Description of Indirect Damages</th>
<th>Cost of Damage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>NA</td>
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</tbody>
</table>

**Total Damage**

<table>
<thead>
<tr>
<th>Total Damage</th>
<th>NA</th>
</tr>
</thead>
</table>

### Part 3: Project Objective

**Project Objective**

TRORC and VT DEC will develop and test a GIS model to automate the production of flood risk assessment inventories and maps for community officials and other stakeholders. The GIS model will be a collection of tools that use various spatial datasets to identify sites with flood risk. TRORC and DEC will automate the model's tools to produce new risk assessments with new updated inputs. Risk assessments will include lists of public and private addresses with flood risk, associated maps and other information. TRORC and DEC also hope to share the model and output with community officials as well as flood risk managers and other scientists in Vermont and beyond.

### Part 4: Analysis of Alternative Solutions

**Alternative Solutions**

<table>
<thead>
<tr>
<th>Alternative Solution</th>
<th>Brief Title</th>
<th>Description of Alternative</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>No Action</td>
</tr>
<tr>
<td>3</td>
<td>No Action</td>
<td>No Action</td>
</tr>
</tbody>
</table>

**Supporting Documentation:**

- Hydrology/hydraulics reports, if applicable
- Supporting documentation for the alternatives (i.e. drawings, designs, pictures)

**Preferred Alternative**

<table>
<thead>
<tr>
<th>Chosen Alternative:</th>
<th>NA</th>
</tr>
</thead>
</table>

**Justification:**

NA

### Part 5: Project Description

**Project Description**

TRORC and VT DEC want to develop and refine a GIS model and procedure to prioritize risks to public and private investments in communities across our region. The model would use the new FEMA DFIRM flood hazard data, Vermont's fluvial erosion hazard data, culvert data from VTrans and VT ANR, and river corridor management areas to identify critical facilities and private and commercial property at risk. Public and private investments such as bridges and culverts, utilities, shelters, schools, and businesses could be assigned risk levels. Critical facilities in communities will use FEMA's 500 year flood risk recommendation. VT DEC's River Management Program has developed a preliminary model that identifies E911 addresses in the special flood hazard data that will be the basis for the initial model. TRORC and DEC will provide the risk assessments to these communities through mailings and existing forums such as Road Foreman meetings and Town Official roundtables. Risk levels would be outlined for the communities about specific facilities. The LEPC would be used to solicit input from its membership during model testing and output development.

**Expected Life of Project**

1/2010-12/2010

**Supporting Documentation:**

- Photos
- Engineering Studies
- Site Diagrams
### Project Costs for Preferred Alternative

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit Qty.</th>
<th>Unit Measurement</th>
<th>Unit Cost</th>
<th>Cost Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staffing (Model Development, Testing and Presentation)</td>
<td>215</td>
<td>hours</td>
<td>$65.00</td>
<td>$13,974</td>
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<tr>
<td>Travel</td>
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<td>miles</td>
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<td>$317</td>
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<td>total meeting prep &amp; presentation per mtg.</td>
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<td>Large Format Printing/Copying</td>
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<td>page</td>
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**Total Project Cost Estimate** $18,632

### Summary of Project Costs

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<th>Total Project Costs</th>
<th>$18,632</th>
</tr>
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<tbody>
<tr>
<td>B</td>
<td>FEMA Share (75% of Line A)</td>
<td>$13,974</td>
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<tr>
<td>C</td>
<td>Local Share (25% of Line A)</td>
<td>$4,658</td>
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</table>

Note: The sum of lines 1-3 must equal Line C.

1. Cash $3,730
2. In-Kind Service $928

<table>
<thead>
<tr>
<th>D</th>
<th>Total Local Share (Equal to Line C)</th>
<th>$4,658</th>
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</thead>
<tbody>
<tr>
<td>E</td>
<td>Total Project Costs (Line B + Line D)</td>
<td>$18,632</td>
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</tbody>
</table>

### Benefit/Cost Analysis

<table>
<thead>
<tr>
<th>Estimated Project Cost</th>
<th>Future Maintenance costs for life of project</th>
<th>NA</th>
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</thead>
<tbody>
<tr>
<td>Total Cost = Project Cost + Future Maintenance</td>
<td>Total Cost</td>
<td></td>
</tr>
<tr>
<td>Benefit/Cost Ratio = Anticipated Loss or Benefit / Total Cost</td>
<td>Benefit/Cost Ratio</td>
<td>NA</td>
</tr>
</tbody>
</table>

Only those projects with a benefit-cost ratio of 1.0 or greater will be considered; please attach a separate benefit cost analysis (BCA). Planning applications do not require a BCA.
### Part 7: Scope of Work

<table>
<thead>
<tr>
<th>Task Description</th>
<th>Days to Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Review data &amp; inputs</td>
<td>8</td>
</tr>
<tr>
<td>Develop Model</td>
<td>7</td>
</tr>
<tr>
<td>Test Model</td>
<td>3</td>
</tr>
<tr>
<td>Develop Final Output</td>
<td>2</td>
</tr>
<tr>
<td>Review Output with LEPC</td>
<td>1</td>
</tr>
<tr>
<td>Final Presentations and Mailings</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>27</strong></td>
</tr>
</tbody>
</table>

### Part 8: Technical Confirmation

Has the hydrology/hydraulics/structural design of this project been endorsed by the local Highway District Engineer, Local Stream Alteration Engineer, a Consulting Engineer or other Technical Experts?

- [ ] Supporting letter(s) (attached)

### Part 9: Authorized Signature

I certify that I am the authorized agent for the applicant and have responsibility for the development and completion of this application and all the information contained herein is true and accurate.

Peter L. Fellows CFM

Date: 10/29/2009
October 28, 2009

Vermont Emergency Management
103 South Main Street
Waterbury, VT 05671

RE: TRORC HMGP Planning Funds Application DR-1816

Dear Ray,

This letter supports Two Rivers Ottauquechee Regional Commission’s application for HMGP planning funds under Disaster 1816 of 2008 to develop and test a GIS model to automate the production of flood risk assessment inventories for its communities.

Flooding is the most frequent type of natural disaster in Vermont and causes significant damage to municipal infrastructure. Communities have difficulty understanding the risks to public infrastructure as well as to their citizens because of the confusing variety of flood data available. These data are in different formats and it is impossible for small communities to develop simple risk assessments of town and private properties using these data for their planning and budgetary needs. Communities need a simple way to assess these risks and regional and state officials need tools to produce and update these risk assessments.

TRORC and VT DEC plan to develop and test a GIS model to automate the production of flood risk assessment inventories and maps for community officials and other stakeholders. Risk assessments will include lists of public and private addresses with flood risk, associated maps and other information. Risk levels would be outlined for the communities about specific facilities.

The Town of Woodstock supports this application and encourages the State to fully fund the work.

Sincerely,

Michael Brandt, AICP
Town Planner / Administrative Officer
**FEDERAL EMERGENCY MANAGEMENT AGENCY**  
**HAZARD MITIGATION GRANT PROGRAM**  
**Allocation Request**

**Disaster Number:** 1816  
**Allocation Number:** 3  
**IFMIS Status:** Accept  
**IFMIS Date:** 09/01/2010

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
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<td>4 - R</td>
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<td>$0</td>
<td>$41,760</td>
<td>$41,760</td>
<td>$41,760</td>
<td>$0</td>
<td>$0</td>
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</tbody>
</table>

**TOTALS**  
$41,760  
$0  
$41,760

**Comments**

*Date: 08/31/2010  User Id: JMALONE2*

Comment: allocation of $41,760 approved

*Date: 08/31/2010  User Id: SBELL7*

Comment: HMO approves allocation of $41,760 for Windsor, VT road erosion project.

**Authorization**

Preparer Name: JUDITH MALONEY  
Preparation Date: 08/31/2010

HMO Authorization Name: SAMUEL BELL  
HMO Authorization Date: 08/31/2010
<table>
<thead>
<tr>
<th>FEMA Project Number</th>
<th>Proj Amend Number</th>
<th>State Appl ID</th>
<th>FY</th>
<th>Project Amount</th>
<th>Grantee Admin Est</th>
<th>Subgrantee Admin Est</th>
<th>Total Allocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 - R</td>
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<td>3</td>
<td>2010</td>
<td>$41,760</td>
<td>$0</td>
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<td>$41,760</td>
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</table>

**TOTALS** $41,760 $0 $41,760

**Comments**

Date: 08/31/2010, User Id: JMALONE2
Comment: allocation of $41,760 approved.

Date: 08/31/2010, User Id: SBELL7
Comment: HMO approves allocation of $41,760 for Windsor, VT road erosion project.

**Authorization**

Preparer Name: JUDITH MALONEY
Preparation Date: 08/31/2010

HMO Authorization Name: SAMUEL BELL
HMO Authorization Date: 08/31/2010

[Signature]

Authorizing Official Title: Branch Chief
Authorization Date: 9/9/10

[Signature]

Authorizing Official Title: Branch Chief
Authorization Date: 9/9/10
<table>
<thead>
<tr>
<th>Disaster No</th>
<th>FEMA Project No</th>
<th>Amendment No</th>
<th>State Application ID</th>
<th>Action No</th>
<th>Supplemental No</th>
<th>State</th>
<th>Grantee</th>
</tr>
</thead>
<tbody>
<tr>
<td>1816</td>
<td>4-R</td>
<td>0</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td>VT</td>
<td>statewide</td>
</tr>
</tbody>
</table>

Subgrantee: Windsor (Town of)
Subgrantee FIPS Code: 027-84925

Project Title: Brook Road Stabilization Project

<table>
<thead>
<tr>
<th>Total Amount Previously Allocated</th>
<th>Total Amount Previously Obligated</th>
<th>Total Amount Pending Obligation</th>
<th>Total Amount Available for New Obligation</th>
</tr>
</thead>
<tbody>
<tr>
<td>$41,760</td>
<td>$41,760</td>
<td>$0</td>
<td>$0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Project Amount</th>
<th>Grantee Admin Est</th>
<th>Subgrantee Admin Est</th>
<th>Total Obligation</th>
<th>IFMIS Date</th>
<th>IFMIS Status</th>
<th>FY</th>
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<tbody>
<tr>
<td>$41,760</td>
<td>$0</td>
<td>$0</td>
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<td>09/03/2010</td>
<td>Accept</td>
<td>2010</td>
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</tbody>
</table>

**Comments**

Date: 09/02/2010  User Id: JMALONE2

Comment: obligation $41,760 approved

Date: 09/03/2010  User Id: SBELL7

Comment: HMO approves obligation $41,760 for a Windsor, VT road erosion project.

**Authorization**

Preparer Name: JUDITH MALONEY  Preparation Date: 09/02/2010

HMO Authorization Name: SAMUEL BELL  HMO Authorization Date: 09/03/2010
<table>
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<tr>
<th>Dismiss No</th>
<th>FEMA Project No</th>
<th>Amendment No</th>
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<th>Action No</th>
<th>State</th>
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<tbody>
<tr>
<td>1816</td>
<td>4-R</td>
<td>0</td>
<td>3</td>
<td>1</td>
<td>VT</td>
<td>Statewide</td>
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</table>

Subgrantee: Windsor (Town of)
Subgrantee FIPS Code: 027-84925

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<table>
<thead>
<tr>
<th>Total Amount Previously Allocated</th>
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<th>Total Amount Available for New Obligation</th>
</tr>
</thead>
<tbody>
<tr>
<td>$41,760</td>
<td>$41,760</td>
<td>$0</td>
<td>$0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Project Amount</th>
<th>Grantee Admin Est</th>
<th>Subgrantee Admin Est</th>
<th>Total Obligation</th>
<th>IFMIS Date</th>
<th>IFMIS Status</th>
<th>FY</th>
</tr>
</thead>
<tbody>
<tr>
<td>$41,760</td>
<td>$0</td>
<td>$0</td>
<td>$41,760</td>
<td>09/03/2010</td>
<td>Accept</td>
<td>2010</td>
</tr>
</tbody>
</table>

Comments
Date: 09/02/2010 User Id: JMALONE2
Comment: obligation $41,760 approved

Date: 09/03/2010 User Id: SBELL7
Comment: HMO approves obligation $41,760 for a Windsor, VT road erosion project.

Authorization
Preparer Name: JUDITH MALONEY
Preparation Date: 09/02/2010

HMO Authorization Name: SAMUEL BELL
HMO Authorization Date: 09/03/2010

[Signature]
Authorizing Official Signature

[Title]
Authorizing Official Title

[Date]
Authorization Date
**Mitigation Project Description**

Amendment Status: Approved

Approval Status: Approved

**Project Title:** Brook Road Stabilization Project

**Grantee:** Statewide

**Subgrantee:** Windsor (Town of)

**Work Schedule Status**

<table>
<thead>
<tr>
<th>Amend #</th>
<th>Description</th>
<th>Time Frame</th>
<th>Due Date</th>
<th>Revised Date</th>
<th>Completion Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Rip rap</td>
<td>30 da.</td>
<td>00/00/0000</td>
<td>00/00/0000</td>
<td>00/00/0000</td>
</tr>
<tr>
<td>0</td>
<td>Restore streambank</td>
<td>7 da.</td>
<td>00/00/0000</td>
<td>00/00/0000</td>
<td>00/00/0000</td>
</tr>
<tr>
<td>0</td>
<td>Regrade and reshape road</td>
<td>7 da.</td>
<td>00/00/0000</td>
<td>00/00/0000</td>
<td>00/00/0000</td>
</tr>
<tr>
<td>0</td>
<td>Install guardrail</td>
<td>2 da.</td>
<td>00/00/0000</td>
<td>00/00/0000</td>
<td>00/00/0000</td>
</tr>
</tbody>
</table>

**Approved Amounts**

<table>
<thead>
<tr>
<th>Total Approved</th>
<th>Federal Share Percent</th>
<th>Total Approved Federal Share Amount</th>
<th>Non-Federal Share Percent</th>
<th>Total Approved Non-Federal Share Amount</th>
</tr>
</thead>
<tbody>
<tr>
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<td>75.000000000</td>
<td>$41,760</td>
<td>25.00000000</td>
<td>$13,920</td>
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</table>

**Allocations**

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<tr>
<th>Allocation Number</th>
<th>IFMIS Status</th>
<th>IFMIS Date</th>
<th>Submission Date</th>
<th>ES Support Req ID</th>
<th>ES Amend Number</th>
<th>Proj Alloc Amount Fed Share</th>
<th>Grantee Admin Amount</th>
<th>Subgrantee Admin Amount</th>
<th>Total Alloc Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>A</td>
<td>09/01/2010</td>
<td>08/31/2010</td>
<td>1904036</td>
<td>3</td>
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<td>$0</td>
<td>$0</td>
<td>$41,760</td>
</tr>
</tbody>
</table>

**Obligations**

<table>
<thead>
<tr>
<th>Action Nr</th>
<th>IFMIS Status</th>
<th>IFMIS Date</th>
<th>Submission Date</th>
<th>ES Support Req ID</th>
<th>ES Amend Number</th>
<th>Suppl Nr</th>
<th>Project Obligated Amt - Fed Share</th>
<th>Grantee Admin Amount</th>
<th>Subgrantee Admin Amount</th>
<th>Total Obligated Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>09/03/2010</td>
<td>09/03/2010</td>
<td>1919006</td>
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<td>3</td>
<td>$41,760</td>
<td>$0</td>
<td>$0</td>
<td>$41,760</td>
</tr>
</tbody>
</table>

**Total Obligated**

<table>
<thead>
<tr>
<th>Total Obligated Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>$41,760</td>
</tr>
<tr>
<td>Projected</td>
</tr>
<tr>
<td>------------</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>HMGP Project Funds</td>
</tr>
<tr>
<td>Regular Projects</td>
</tr>
<tr>
<td>Initiative Projects</td>
</tr>
<tr>
<td>Planning Projects</td>
</tr>
<tr>
<td>Subtotal</td>
</tr>
<tr>
<td>State Management Cost</td>
</tr>
<tr>
<td>TOTALS</td>
</tr>
</tbody>
</table>

For disasters declared on or after 11/13/2007:
HMGP Project funds = Regular Projects + Initiative Projects + Planning Projects.
State Management Cost is separate from the HMGP Project Funds.
## Applicant Information

**Applicant Name:** Town of Windsor  
**County:** Windsor  
**Name of Local Hazard Mitigation Plan:** Windsor All Hazards Mitigation Plan  
**Date of FEMA approval of Local Plan:** 7.21.2006  
**Federal Tax ID Number:**  

### Primary Contact Information

- **Name:** Stephen Cotrell  
- **Title:** Town Manager  
- **Organization:** Town of Windsor  
- **Mailing Address:** P.O. Box 47 Windsor, VT 05089  
- **Work Phone Number:** 802.674.6788  
- **Alternate Phone Number:** 802.299.1285  
- **Fax Number:** 802.674.1017  
- **Email:** sjcottrell@windsor-vt.gov  

### Secondary Contact Information

- **Name:** Eric Tarczewski  
- **Title:** Road Foreman  
- **Organization:** Town of Windsor  
- **Mailing Address:** P.O. Box 47 Windsor, VT 05089  
- **Work Phone Number:** 802.674.6000  
- **Fax Number:** 802.674.1017  
- **Email:**  

## Problem Description

**Location of Project:**  
Latitude: N 43° 06' 46.37"  
Longitude: W 72° 26' 28.75"  
(in decimals)  
Identify adjacent roads/streets and bodies of water: Estey Lane, Brook Road, Mill Brook  

### Required Maps:

- [x] Local General Highway Map (attached)  
- [ ] Flood Insurance Rate Map with panel number (attached)  
- [x] Topographic Map (attached)  

### Problem Statement:  
(What's Happening?)  
From continuing rain throughout all seasons, Brook Road and the supporting embankment is sloughing into the Mill Brook. Road closures, first responses time and other problems arise as the road has become narrower over time. The road is situated near the bottom of a large embankment with Mill Brook to the north and a steep slope to the south. The slope prevents the town from moving the road away from Mill Brook and the sloughing embankment.  

### Supporting Documentation:  
(Attach)  
- [x] Site Diagrams  
- [ ] Photos  
- [ ] Engineering Studies
### Part 2: Problem Description

#### Statement of Damages

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Description of Direct Damages</th>
<th>Description of Indirect Damages</th>
<th>Cost of Damage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ongoing</td>
<td>Rain</td>
<td>Rain events cause the embankment holding Brook Road away from Mill Brook to erode.</td>
<td>Occasional road closures, slower emergency response times given large vehicles cannot maneuver on the narrow road.</td>
<td>$6000/yr</td>
</tr>
</tbody>
</table>

#### Total Damage

### Part 3: Project Objective

The project objective is to rip rap or armor the bank of Mill Brook where it has been causing erosion damage along Brook Road during rain events. The erosion problems are not related to one specific event, but a multitude or rain over many years.

### Part 4: Analysis of Alternative Solutions

#### Alternative Solutions

<table>
<thead>
<tr>
<th>Alternative Solution</th>
<th>Brief Title</th>
<th>Description of Alternative</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Do Nothing</td>
<td>If not fixed, the current situation will continue to worsen and eventually lead to the town Shutting the eroding portion of the road down to traffic.</td>
</tr>
<tr>
<td>2</td>
<td>Alternative erosion control</td>
<td>Utilizing willow planting as a means to stabilize the brook from further erosion</td>
</tr>
<tr>
<td>3</td>
<td>No Action</td>
<td>No Action</td>
</tr>
</tbody>
</table>

**Supporting Documentation:**

1. Yes
2. Yes
3. Yes

- Yes, provided additional information concerning these impacts is attached.
- Yes, hydrologic/hydraulic reports, if applicable.

**Chosen Alternative:**

[Justification]
## Part 5: Project Description

**Project Description**

Replace and rebuild the Mill Brook embankment along approximately 1000 linear feet of stream in order to salvage roadway and mitigate further erosion of embankment into brook. To prevent additional erosion, the town proposed to place 24" and 48" rip rap along the stream embankment along with replacing the necessary guardrail.

**Expected Life of Project**

**Supporting Documentation:**
- Photos:
- Engineering Studies
- Site Diagrams

### Project Costs for Preferred Alternative

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit Qty.</th>
<th>Unit Measurement</th>
<th>Unit Cost</th>
<th>Cost Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<tr>
<td></td>
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</tbody>
</table>

**Total Project Cost Estimate**

### Summary of Project Costs

<table>
<thead>
<tr>
<th></th>
<th><strong>Total Project Costs</strong></th>
<th><strong>Cost Estimate</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td></td>
<td><strong>$52,450.00</strong></td>
</tr>
<tr>
<td>B</td>
<td>FEMA Share (75% of Line A)</td>
<td><strong>$39,337.50</strong></td>
</tr>
<tr>
<td>C</td>
<td>Local Share (25% of Line A) Note: The sum of lines 1-3 must equal Line C</td>
<td><strong>$13,112.60</strong></td>
</tr>
<tr>
<td></td>
<td>1. Cash</td>
<td><strong>$13,112.60</strong></td>
</tr>
<tr>
<td></td>
<td>2. In-Kind Service</td>
<td>$0.00</td>
</tr>
<tr>
<td></td>
<td>3. Other</td>
<td>$0.00</td>
</tr>
<tr>
<td>D</td>
<td>Total Local Share (Equal to Line C)</td>
<td><strong>$13,112.50</strong></td>
</tr>
<tr>
<td>E</td>
<td>Total Project Costs (Line B + Line D)</td>
<td><strong>$52,450.00</strong></td>
</tr>
</tbody>
</table>

Note: Line A and D are equal.
Identify source of local non-federal match:
Windsor town funds will be used as match for this project.

Part 6: Benefit/Cost Analysis

<table>
<thead>
<tr>
<th>Estimated Project Cost</th>
<th>Future Maintenance costs for life of project</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cost: Project Cost - Future Maintenance</td>
<td>Total Cost</td>
</tr>
<tr>
<td>Total Damages</td>
<td>Years of Damage</td>
</tr>
<tr>
<td>Annualized Damages = Total Damages / Years of record</td>
<td>Annualized Damages</td>
</tr>
<tr>
<td>Annualized Damages</td>
<td>Expected Life of Project</td>
</tr>
<tr>
<td>Anticipated Damages without project over time = Annualized damages * Expected life of project</td>
<td>Anticipated Damage without Project (Anticipated Loss or Benefit)</td>
</tr>
<tr>
<td>Benefit/Cost Ratio = Anticipated Loss or Benefit / Total Cost</td>
<td>Benefit/Cost Ratio</td>
</tr>
</tbody>
</table>

Only projects with a benefit/cost ratio of 1.0 or greater will be considered. If your project meets that criteria, continue through the next sections of the application.

Part 7: Scope of Work

<table>
<thead>
<tr>
<th>Task Description</th>
<th>Days to Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Placement of 600 linear feet of 2' and 4' rip rap ranging in height from 15-20' in height.</td>
<td>30</td>
</tr>
<tr>
<td>Restoration of top of stream bank</td>
<td>7</td>
</tr>
<tr>
<td>Regrading of Brook Rd</td>
<td>7</td>
</tr>
<tr>
<td>Placement of 100' of guardrail and guardrail posts</td>
<td>2</td>
</tr>
</tbody>
</table>

Part 8: Technical Confirmation

Supporting Documentation: Has the hydrology/structural design of this project been endorsed by the local Highway District Engineer, Local Stream Alteration Engineer, Consulting Engineer, or other technical experts? (Attach)

Part 9: Authorized Signature

I certify that I am the authorized agent for the applicant and have responsibility for the development and completion of this application and all the information contained herein is true and accurate.
PROPOSAL

SUBMITTED TO:  TOWN OF WINDSOR
    PO BOX 47
    WINDSOR, VT 05089

ATTENTION:  STEVE COTTERELL
PHONE:  802-674-6786
FAX PHONE:  802-674-1017
JOB NAME:  RIP RAP SLOPE
JOB LOCATION:  BROOK ROAD

MAY 29, 2009

WE HEREBY SUBMIT SPECIFICATIONS AND ESTIMATES FOR:

INSTALL RIP RAP ON THREE SECTIONS OF ROAD PER DRAWINGS SUPPLIED BY TOWN. WE HAVE SUBSTITUTED 2'-0" DGCS FOR THE TOP TWO FEET TO FACILITATE GUARD RAIL PLACEMENT.

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 LF SECTION @ $125 = $25,000</td>
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</tr>
<tr>
<td>193 LF SECTION @ $75 = $14,475</td>
<td></td>
</tr>
<tr>
<td>173 LF SECTION @ $75 = $12,975</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$52,450</strong></td>
</tr>
</tbody>
</table>

All documents including drawings and specifications prepared pursuant to this proposal are submitted as part of the contract and Daniels shall retain an assignment and property interest therein whether or not the Project is completed. Copies of such documents may be made and received for information and reference in connection with the use and occupancy of the Project by TOWN and others; however, such documents are not intended or represented to be suitable for reuse by any party or constructive disposal of the Project or on any other project. Any reuse without written permission or adaptation by Daniels for the specific purpose intended will be at the party’s sole risk and without liability or legal exposure to Daniels and that party shall indemnify and hold harmless Daniels from all claims, damages, losses and expenses including attempt to avert any resulting therefrom. Any such verification or adaptation will require Daniels to furnish specifications or plans to be agreed upon by Daniels and said party.

PAYMENT to be made as follows: INVOICES BI-WEEKLY, PAYABLE WITHIN TEN DAYS, NO RETENTION.

Finance Charge of 1 1/2% per month charged to past due accounts including all collection and attorney fees.

ACCEPTANCE OF PROPOSAL: The above prices, specifications, and conditions are satisfactory and are hereby accepted.

SIGNATURE: ________________________
(Owner or Agent)

DATE OF ACCEPTANCE: ________________________

PO BOX 246
4498 ROUTE 5
ASCUTNEY, VT 05030-0246

(802) 674-6323
FAX: (802) 674-6346

www.nailhdanlie.com

The Associated General Contractors of America
### Benefit-Cost Analysis of Flood Mitigation Projects

#### Project Information

<table>
<thead>
<tr>
<th>Disaster Number</th>
<th>Project</th>
<th>Disaster</th>
<th>Address</th>
<th>City, State, Zip</th>
</tr>
</thead>
<tbody>
<tr>
<td>DR1234567890</td>
<td>MillBrookArmoringUnitWindoor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DSR Number</td>
<td>DSR Category</td>
<td>DSR Subject</td>
<td>Inspection Date</td>
<td>Application Date</td>
</tr>
<tr>
<td>123</td>
<td>A</td>
<td>B</td>
<td>February 20, 2010</td>
<td>March 12, 2010</td>
</tr>
</tbody>
</table>

**Project Description:**

... (Text continues)

**Project Useful Life (Years):**

... (Text continues)

**Base Year of Costs:**

... (Text continues)

**Historic Preservation Issues (Yes or No):**

... (Text continues)

**Environmental Issues (Yes or No):**

... (Text continues)

**Economic Factors:**

- **Discount Rate (%):** 7.00%
- **Present Value Coefficient:** 1.00

**Net Mitigation Project Cost:**

... (Text continues)

**Notes:**

... (Text continues)

**Additional Annual Maintenance Cost ($/year) for Mitigation Project:**

... (Text continues)

**Total Mitigation Project Cost:**

... (Text continues)

**Type of Facility**

(for Loss of Function)

**FACILITY DESCRIPTION:**

... (Text continues)

**Loss of Function for Roads/Bridges:**

- **Estimated Number of One-Way Traffic Trips Per Day:**
- **Estimated Delay (Detour) Time Per One Way Trip (hours):**
- **Total Economic Loss Per Hour of Delay: Ordinary, commercial, and emergency traffic:**

**Economic Loss Per Day of Loss of Function of Bridge or Road:**

... (Text continues)

**FLOOD HISTORY:**

**Estimated Frequency of Declared Flood Event (Years):**

... (Text continues)

**Data Sources and Documentation:**

... (Text continues)

**Scenario Run ID:**

... (Text continues)

**File Save As Name:**

... (Text continues)
### Damages Before Mitigation

<table>
<thead>
<tr>
<th>Flood Frequency Events (Years)</th>
<th>Scenario Flood Damages</th>
<th>Loss of Function Time and Dollars</th>
<th>TOTAL Damages and Losses</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Days</td>
<td>Losses</td>
</tr>
<tr>
<td>TRAMMER 1</td>
<td>11114.5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TRAMMER 2</td>
<td>11114.5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TRAMMER 3</td>
<td>11114.5</td>
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<td>0</td>
</tr>
<tr>
<td>TRAMMER 4</td>
<td>11114.5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TRAMMER 5</td>
<td>11114.5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TRAMMER 6</td>
<td>11114.5</td>
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<td>0</td>
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<tr>
<td>Total Annualized Damages</td>
<td>$11,417</td>
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<td></td>
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</table>

### Damages After Mitigation

<table>
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<td>0</td>
</tr>
<tr>
<td>TRAMMER 6</td>
<td>11114.5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total Annualized Damages</td>
<td>$225</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Summary of Benefits and Costs

- Expected Annual Damages Before Mitigation: $11,417
- Expected Annual Damages After Mitigation: $225
- Expected Avoided Damages After Mitigation (BENEFITS): $11,192
- PROJECT COSTS: $55,555
- PROJECT BENEFITS: $154,461
- BENEFITS MINUS COSTS: $98,906
BENEFIT-COST RATIO

Data Sources and Documentation

FEMA Disclaimer: The results produced by this analysis are neither conclusive evidence that a proposed project is cost-effective, nor a guarantee that a project is eligible for any government grant for whatever purpose.
REVISED ESTIMATE
SUBMITTED TO: TOWN OF WINDSOR
PO BOX 47
WINDSOR, VT 05089

ATTENTION: STEVE COTTRELL
PHONE: 802-674-6786
FAX PHONE: 802-674-1017
JOB NAME: RIP RAP SLOPE
JOB LOCATION: BROOK ROAD

FEB. 25, 2010

WE HEREBY SUBMIT SPECIFICATIONS AND ESTIMATES FOR:

INSTALL RIPRAP ON THREE SECTIONS OF ROAD PER DRAWINGS SUPPLIED BY TOWN. WE HAVE
SUBSTITUTED 2"DGCS FOR THE TOP TWO FEET TO FACILITATE GUARD RAIL PLACEMENT.

200 LF SECTION @ $132 = $26,400
193 LF SECTION @ $80 = $15,440
173 LF SECTION @ $80 = $13,840

TOTAL $55,680

COST BREAKDOWN
LABOR = $10,919
MATERIAL = $35,763
EQUIPMENT = $8998

SINCERELY

[Signature]

P.O. Box 246
4409 ROUTE 5
ASCOTNEY, VT 05030-0248
www.neilhdaniels.com
(802) 674-6323
FAX: (802) 674-5346

The Associated General Construction Contractors of America
BARRY SLEATH

From: Steve Cottrell [scottrell@windsor-vt.gov]
Sent: Thursday, February 18, 2010 2:04 PM
To: 'Raymond Doherty'
Cc: Barry Sleath (bsleath@neilhdaniels.com); John Broker-Campbell
Subject: RE: HMGP Application- town of Windsor- Information Request

Mr. Doherty:

I have attached a quote and a schematic depiction of the now out of date quotes the town received from Daniels Construction last year for repairs along Brook Road.

I have asked Barry Sleath of Daniels to update these quotes and schematics for purposes of the town’s FEMA grant application. I will hopefully have the revised cost data as well as the longitude and latitude information for you by late next week, or before the end of the month. Thank you for your patience.

Sincerely,

Stephen J. Cottrell
Town Manager
Town of Windsor, VT
(802) 674-6786
(802) 299-1285 cell
(802) 674-1017 fax
http://www.vermont-towns.org/windsor

-----Original Message-----
From: Raymond Doherty [mailto:rdoherty@dps.state.vt.us]
Sent: Thursday, February 18, 2010 1:28 PM
To: John Broker-Campbell; Steve Cottrell
Subject: HMGP Application- town of Windsor- Information Request

RE: HMGP grant application; town of Windsor- Mill Brook

John and Steve,

I reviewing the HMGP application for the town of Windsor, I noticed that the latitude and longitude coordinates for the project location are missing. FEMA needs this information when it conducts its full environmental review. Therefore, please provide this information which I will include in the application. You may be able to get the lat/long coordinates from a Google map or other online service.

Also, we will need a detailed budget for the project, with the cost breakdown for each line item, e.g. labor, materials, equipment rental/costs, etc.

Feel free to contact me if you have any additional questions. The application will be reviewed by FEMA and the state mitigation project selection committee in March.

Sincerely,

Ray Doherty, State Hazard Mitigation Officer
Vermont Emergency Management
103 South Main Street
Waterbury, VT 05671-2101

2/22/2010.
[VEMOALL] [SSF_LEAD] Situational Update & Expectations for the Coming Storm
VEM Master List [VEMOALL@DPS.STATE.VT.US] on behalf of Ross Nagy [rnagy@DPS.STA

This message was sent with High Importance.

To: vemOall

Attachments: February Snow Event 2010 SitRep #2.pdf (81 KB)

All — Today’s situation report is attached indicating what has happened as of earlier today.
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