



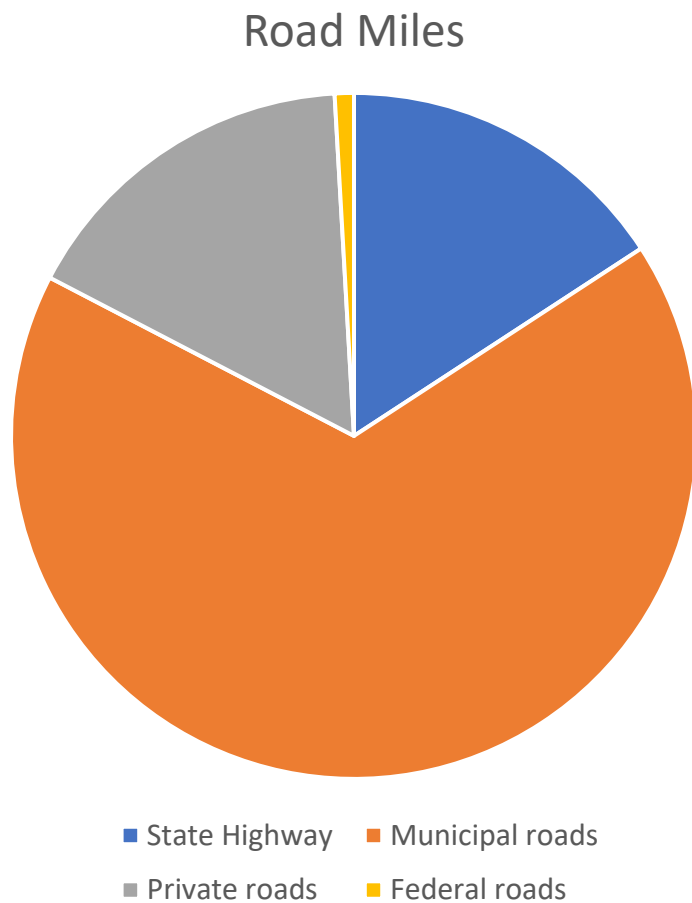
Jim Ryan



VERMONT DEPARTMENT OF  
ENVIRONMENTAL CONSERVATION  
**WATERSHED**  
MANAGEMENT DIVISION  
STORMWATER PROGRAM

DEC MRGP Presentation-  
VT Senate Transportation  
Committee 2/23/21

# Vermont Road Mileage

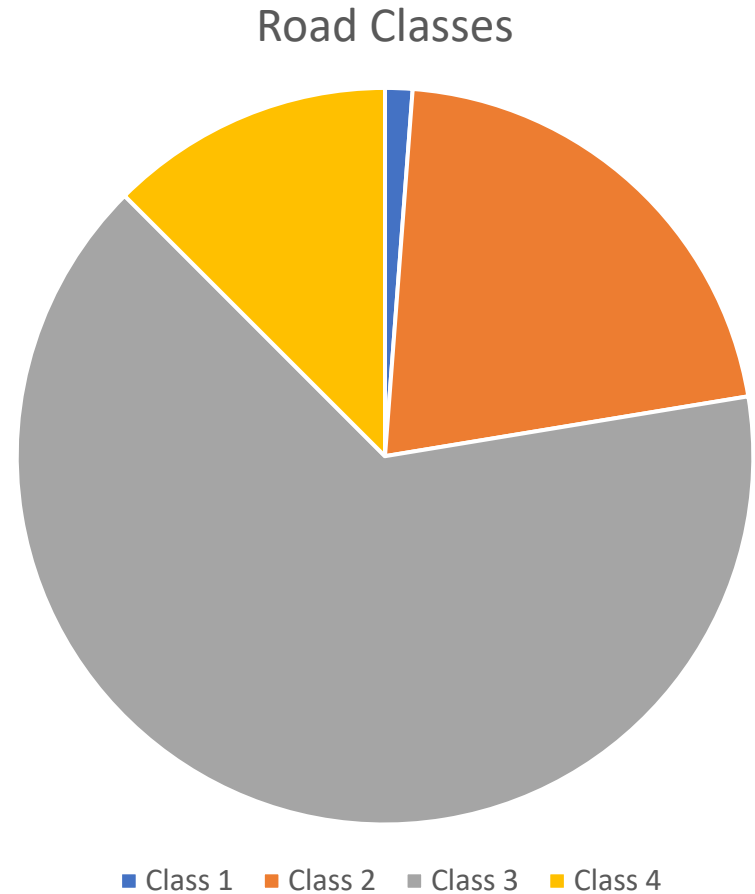


- 18,818 total road miles
- 155 miles of federal roads-1%
- 2,709 miles of state highway-14%
- 2,823 miles of private roads-15%
- 13,131 miles of town highway (Classes 1-4)- 70%

# Municipal Road Classes

## Road Class Distribution

- Class 1: 1.2% (VTrans and municipally- maintained)
- Class 2: 21.2%
- Class 3: 65.1%
- Class 4: 12.5%



# Hydrologically-Connected Roads (52%)

## Connected Criteria:

- ▶ Within 100' of a water resource
- ▶ Bisects (crosses) and drains to a water resource
- ▶ Located within the DEC river corridor
- ▶ Connectivity status can be changed during the inventories
- ▶ Catch basin outfalls within 500' of a water resource and those segments associated with those outfalls

## Water Resources:

- ▶ Perennial streams
- ▶ Intermittent streams/Defined channel (even if dry)
- ▶ Wetlands
- ▶ Lakes and Ponds



- Permitting
- Mapping
- Resources Atlas
- Maps
- Environment

**VERMONT** Natural Resources Atlas  
 Vermont Agency of Natural Resources  
 vermont.gov

Quick Tools...

bing™  
 Basemaps

0 0.3 0.6km 1:500

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# Hydrologically-Connected Road Segments





# Road Erosion Inventories (REIs)

## Separate REIs and standards for:

- Paved and gravel roads with ditches
- Paved roads with catch basins
- Class 4 roads

## REI “scores” for each 328 foot segment:

- *Fully Meets*
- *Partially Meets* or
- *Does Not Meet*

# Standards Check List:

Does your road have a good crown?

Are the road shoulders lower than the travel lane?

If no, question- do you have an adequate ditch?

Is your ditch stone lined if 8 percent or higher?

Is your ditch stone lined or have check dams or have 2 cross culverts or turnouts if 5-7.99 percent slope?


Are your ditches turned away from water and/or stable?

Are your drainage and drive culverts adequately sized and not eroding?

# MRGP Requirements: Road Erosion Inventory

Verizon 7:42 AM 90%

Paved Roads with Catchbasins: Road Erosion Inventory



This Survey123 form is the easiest way for municipalities to complete their required assessment of catch basin outfall systems while submitting the data directly to ANR for reporting.

Road Erosion Inventory (REI) was developed for municipalities to fulfill requirements of the Vermont Department of Environmental Conservation's Municipal Roads General Permit (MRGP). The form is based on practice standards that have developed as part of the MRGP. Vermont municipalities will have to adhere to the MRGP requirements starting in 2018. These requirements include conducting road erosion inventories of all hydrologically-connected roads.

This general permit is intended to achieve significant reductions in stormwater-related erosion from Vermont's municipal roads, both paved and unpaved. Municipalities will implement a customized, multi-year plan to stabilize their road drainage system. The plan will include bringing road drainage systems up to basic maintenance standards, and additional corrective measure to reduce erosion as necessary to meet a TMDL or other water quality restoration effort. The permit is required by Act 64, the Vermont Clean Water Act, and the Lake Champlain Phase I TMDL.

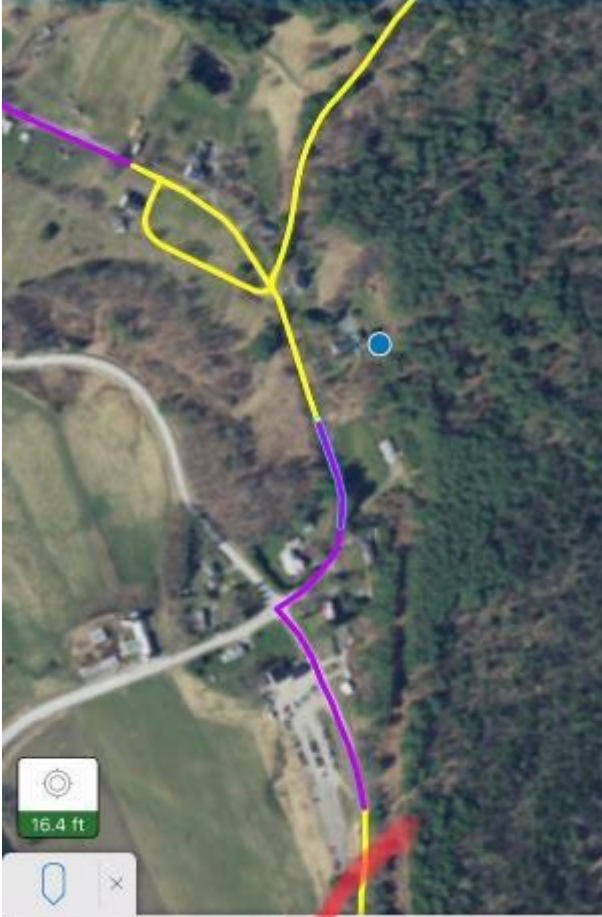
For more information on the DEC Municipal Roads program and the development of the Municipal Roads General Permit, contact Jim Ryan by email or at (802) 490-6140.

**Collect**  
Start collecting data

**Outbox**  
Send your completed survey data

Verizon 9:16 AM 53%

Maps



16.4 ft

**Municipal Roads General Permit**  
STOCKBRIDGE COMMON

Verizon 11:45 AM 100%

Map Details

Length  
328.1 ft

Edited by ANR\_ADMIN on 6/1/18 at 4:32 PM

**Municipal Roads General Permit**

**Launch Inventory for Connected Road Segment**

Segment ID: 63656.1  
STOCKBRIDGE COMMON, Stockbridge, Vermont  
Hydrologically Connected: Yes



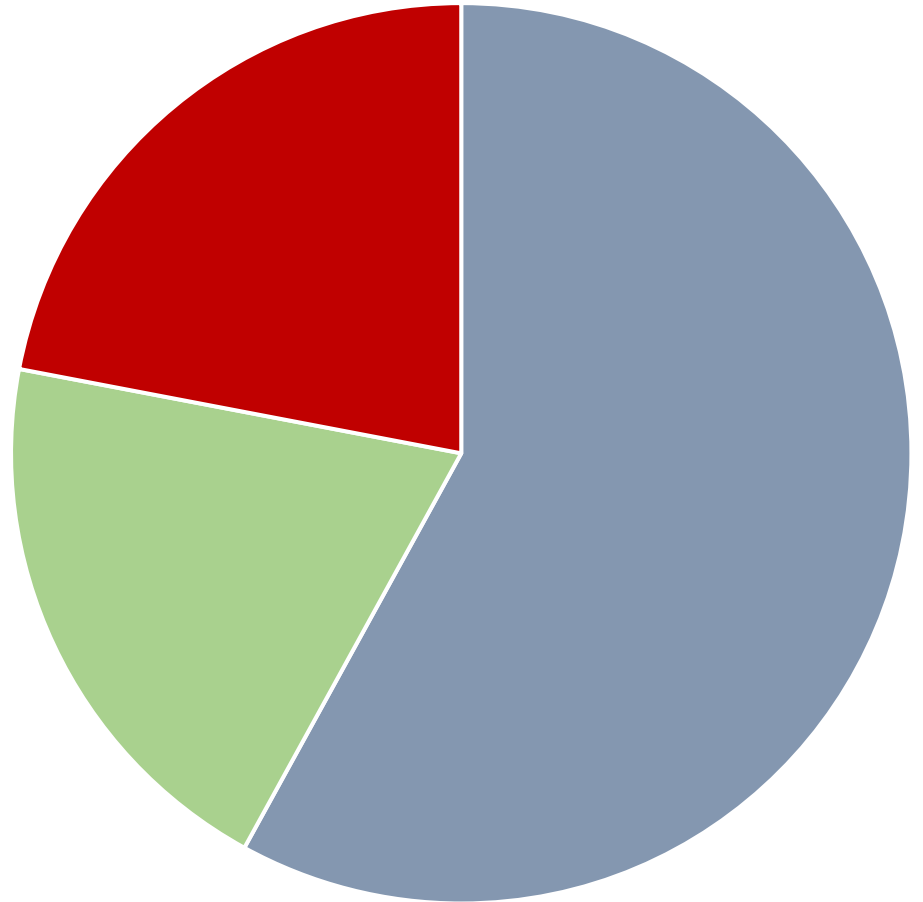
REI results:

58% "Fully Meet"

20% "Partially Meet"

22% Does Not Meet"

Inventory Results



# MRGP Implementation Table Portal Summary

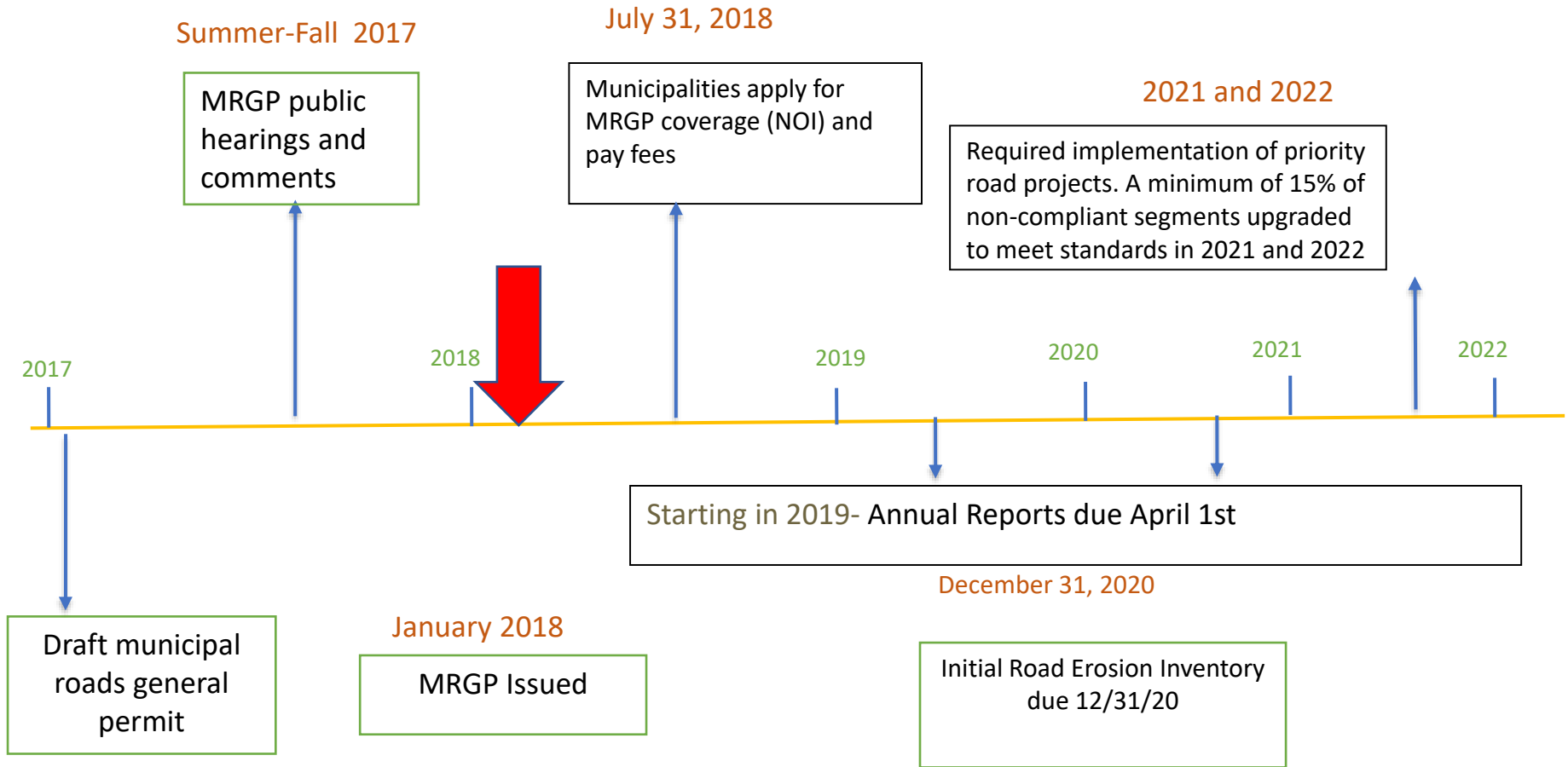
- The Initial Road Erosion Inventory for Addison includes the following results:
  - There are 660 total segments in Addison.
  - There are 305 hydrologically connected segments in Addison.
  - A total of 224 segments Fully Meet MRGP standards.
  - A total of 63 segments Partially Meet MRGP standards.
  - A total of 18 segments Do Not Meet MRGP standards (includes Incomplete Data segments).
  - A total of 6 segments have Incomplete Data.
  - Percent of hydrologically connected segments with a completed initial inventory 98%
  - 13 total segments are required to be brought up to MRGP standards before 12/31/2022.
  - A total of 0 segments are Very High Priority. The MRGP requires that all Very High Priority segments be brought up to MRGP standards before 12/31/2025. For Class 4 roads this date is 12/31/2028.

# MRGP Compliance for 248 municipalities

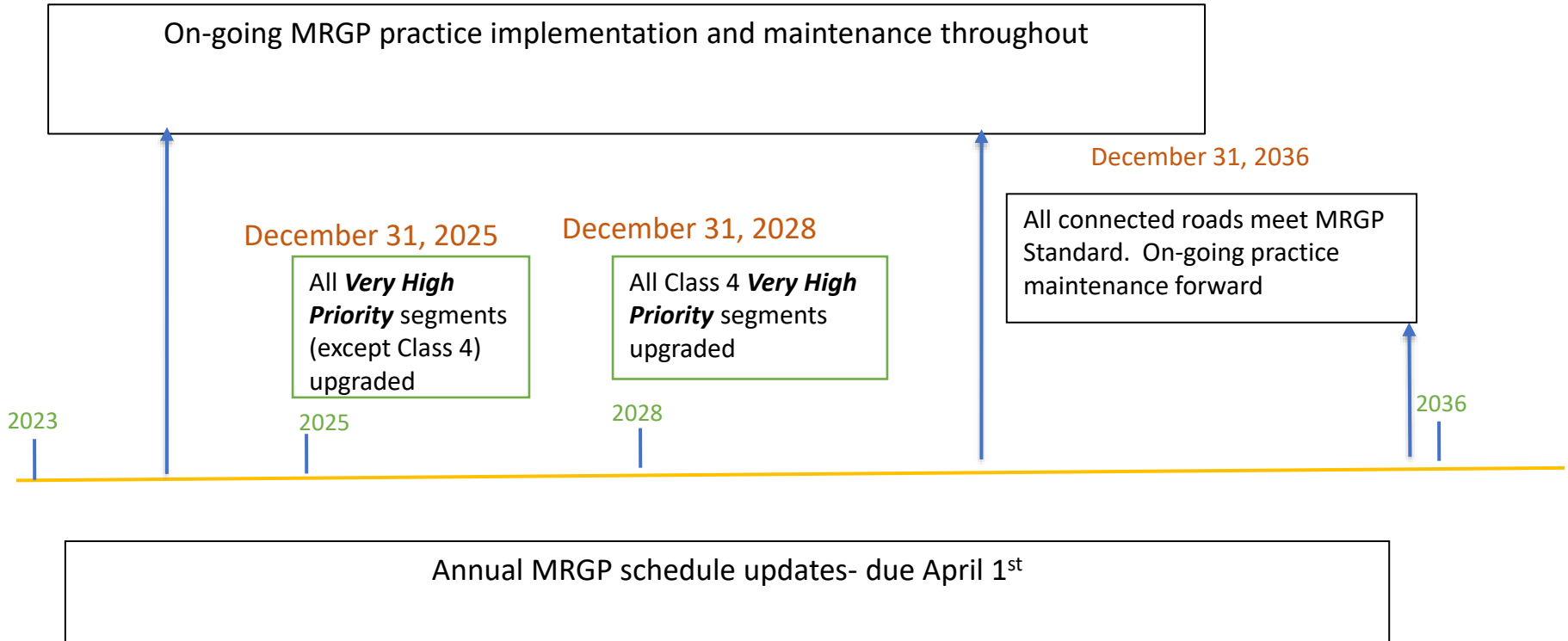
- 2018: 100% (fees and requirements)
- 2019: 100% (fees and requirements)
- 2020:
  - 99.9% fee compliance (247 out of 248)
  - 94% of MRGP towns have completed REIs
  - ~60% of towns have submitted Amendment forms and paid the REI fees



# MRGP Timeline of Deliverables (Near-Term)



# MRGP Timeline of Deliverables (Longer-Term)





# Assistance to Towns

- Funding – Municipal Grants-in-Aid and Better Roads (VTrans)
- Outreach and Technical Assistance
- Small Equipment Grants (DEC)
- Roads Roundtable forums with VTrans Local Roads



# MRGP website

https://dec.vermont.gov/watershed/stormwater/permit-information-applications-fees/municipal-roads-program

Permit Municipal Roads Program | ... x Join conversation


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DEC Conference Room Res... DEC Conference Room Res... Employee Self Service Sign... Report Viewer

- Commissioner's Office
- Administration and Innovation
- Air Quality and Climate
- Drinking Water and Groundwater
- Environmental Assistance
- Environmental Enforcement
- Geological Survey
- Waste Management and Prevention
- Water Investment
- Watershed Management
  - Restoring Vermont's Waters
  - Business and Operations
  - CAFO
  - Lakes and Ponds
  - Monitoring and Assessment
  - Rivers
  - Stormwater

## Municipal Roads General Permit (MRGP)

The [Municipal Roads General Permit](#) is intended to achieve significant reductions in stormwater-related erosion from municipal roads, both paved and unpaved. Municipalities will implement a customized, multi-year plan to stabilize their road drainage system. The plan will include bringing road drainage systems up to basic maintenance standards, and additional corrective measure to reduce erosion as necessary to meet a TMDL or other water quality restoration effort. The permit is required by Act 64, the Vermont Clean Water Act, and the Lake Champlain Phase I TMDL.



For more information on the DEC Municipal Roads program and the development of the Municipal Roads General Permit, contact [Jim Ryan](#) by email or at (802) 490-6140.

**NEW!** [Winter/Spring 2021 Newsletter](#) is now available.

**NEW!** [2021 MRGP Compliance Status](#)

## Application and Reporting Materials

- [MRGP Amendment Form](#) for the Road Erosion Inventory (REI) submittal (*Due December 31, 2020*)

Towns were required to complete and submit REIs using DEC's template before December 31, 2020. If your town has not yet submitted this requirement, please do so as soon as possible. REIs are conducted to determine which road segments meet or do not meet MRGP standards. The REIs serve as a basis to determine which roads will be required to be upgraded to meet MRGP standards. After submitting the town's REI data to the MRGP Implementation Portal, towns are required to complete the one-page permit

# For Additional Information:

[http://dec.vermont.gov/watershed/stormwater/permit-information-applications-fees/municipal-roads-program#Development of Permit](http://dec.vermont.gov/watershed/stormwater/permit-information-applications-fees/municipal-roads-program#Development%20of%20Permit)

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