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August 2, 2018

Mr. Robert Stein, Chairman Connecticut Siting Council Ten Franklin Square New Britain, CT 06051

#### Subject: Docket No. 466, Frost Bridge to Campville 115-kV Project Decision and Order Condition #4 – Independent Environmental Inspector Report

Dear Mr. Stein,

Please find enclosed the Biweekly Independent Environmental Inspector Report, Report #43, for the **July 20<sup>th</sup>** and **July 27<sup>th</sup>**, **2018** inspection events for the construction of the Eversource Frost Bridge to Campville 115-kV Project.

If you have any questions, please contact me at <u>pmartin@trcsolutions.com</u> or (978) 656-3631.

Sincerely,

Paul D Wartin

Paul Martin TRC Environmental Corp.

Enclosure

cc- Kathleen Shanley (email), Eversource TRC Files Paul Cyr-TRC

#### **Docket No. 466– Development and Management Plan Inspection**

The Connecticut Siting Council (CSC) issued to the Connecticut Light and Power Company (d.b.a. as Eversource Energy [Eversource]) a Certificate of Environmental Compatibility and Public Need (Certificate) for the Frost Bridge to Campville 115-kV Project (Project). For the Project, Eversource is in the process of constructing a new 10.4-mile, primarily overhead electric transmission line between its Frost Bridge Substation in the Town of Watertown and its Campville Substation in the Town of Harwington, and also is making minor related modifications to both substations and to a 0.4-mile segment of two existing 115-kV lines (the 1191 and 1921 lines) at the Naugatuck River crossing in the towns of Litchfield and Harwinton. These electrical system modifications are located within Eversource's existing right-of-way (ROW) or substation properties in Litchfield County Connecticut. Pursuant to the CSC's approval of the Project, this report presents the results of the bi-weekly inspections of the Project's conformance to the CSC-approved Development & Management (D&M) Plans, performed by the CSC's independent environmental inspector pursuant to Certificate Condition 4.

#### **ROW/SUBSTATIONS**

Interim Week Inspection:

Date: 07/20/2018

**Inspector:** Paul Cyr

Rain Event:

Locations Inspected (by Town, D&M Plan Map Sheet, and Structure Number/Site):

-Watertown, Map 01, Str01A, Str01B, Str02, Str3080

-Watertown, Maps 02-04, Str04-Str09

-Watertown, Maps 09-14, Str24-Str38

-Watertown, Maps 05-06, Str12-Str15

#### **ROW/SUBSTATIONS**

**Bi-Weekly Week Inspection:** 

Date: 07/27/2018

Inspector: Paul Cyr

Rain Event: 2.64" (7/25/18), 0.51" (7/26/18)

#### Locations Inspected (by Town, D&M Plan Map Sheet, and Structure Number/Site):

-Watertown, Map 01, Str02, and Str3080

-Watertown, Map 7, Str18

-Watertown, Map 8, Str20

-Watertown, Maps 09-14, Str24-Str39

#### Work Observed: (by D&M Plan Map Sheet and Structure Number/Site)

Met with Tom Degnan (Burns & McDonnell) to perform the weekly site inspection. No active work observed during today's inspection. BluRoc was not scheduled to be on site until later in the morning-early afternoon time frame to work in the area of Str69.

Areas where BluRoc performed initial restoration over the previous week were inspected today. In-place E&S controls are in accordance with BMPs and functioning. Permanent BMPs were implemented in several areas and shown in attached photos.

See Photos 1 through 6 for more details

#### Work Observed: (by D&M Plan Map Sheet and Structure Number/Site)

Met with Matt Davison to perform the weekly site inspection. BluRoc is currently working in the areas between Str24 and Str46 performing various restoration and stabilizations tasks. Permanent BMPs are being implemented in areas were vegetation growth has been unsuccessful thus far. Heavy rainfall moved through the area during the previous week following the Interim week inspection. Restoration/stabilization performed in the area over the previous week in the areas of Str24-Str46 was impacted by the rainfall events. BluRoc was in the process of making repairs to newly restored/stabilized areas as well as continuing corrective actions in other areas. The photos included in this report represent conditions following the heavy rainfall events, BluRoc was in the process of making repairs to many of the areas called out in this report.

See Photos 7 through 34 for more details

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Areas Inspect		Observation:	Recommended Action/s:	Corrected Action/s:
jacent Roadways	Interim Week	Restoration is in progress. Water bars and sediment basins are being cleaned and/or installed where needed as BluRoc moves throughout the ROW. Stabilization measures (grass) was observed in the areas	between Str32 and Str38, see Photo #3. Continue to monitor access roads until restoration and final stabilization measures are completed and no visible erosion is occurring.	
Access Roads and Adjacent Roadways	Bi-Week	BluRoc is working in the areas between Str24 and Str46. Existing ground conditions ranged from saturated to muddy due to recent rain events. Erosion (rills) was observed in area south of Str30 (see Photo 17). Tire rutting and muddy	conditions were observed in the areas of S-C4 (see Photos 23 & 24), and wetland/vernal pool W-C20/VP-C20-1 (see Photos 31-32). Restore and stabilize areas.	
cluding trees to save or danger trees noted.	Interim Week	All clearing is completed.	N/A	
Vegetative Clearing Limits (Including trees to s	Bi-Week	All clearing is completed.	N/A	

	Interim Week	Timber mats are being removed as restoration continues. Water crossings are being restored in accordance with BMPs.	Site restoration and stabilization is in progress at this time. Areas will continue to be monitored through initial restoration and final stabilization.	
WaterCrossings	Bi-Week	Visible impacts were observed at watercourse S-C4 (see Photos 23 & 24), and wetland/vernal pool W-C20/VP-C20-1 (see Photo 31-34). Access roads in these areas are saturated and muddy following recent rainfall. Timber mats were removed previously following restoration efforts performed throughout this area. Due to failed stabilization and/or erosion due to heavy rainfall events, BluRoc had to reenter the area to perform maintenance and/or additional restoration. Project vehicle traffic in the area of S-C4 and W-C20/VP-C20-1 disturbed saturated access roads creating muddy conditions which impacted these water crossings.	Restore and stabilize areas in accordance with BMPs.	

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Erosion and Sedimentation Controls	Interim Week	As restoration/stabilization of disturbed ground areas throughout the ROW are being performed, the required E&S control repairs/replacements are being addressed. All E&S Controls are in accordance with BMPs at this time. Where erosion is occurring and stabilization has failed previously, permanent BMPs are being implemented. See Photos 1 through 6.	Continue to monitor and report E&S deficiencies and/or failures to the project inspector and contractor.	
Erosion and Sec	Bi-Week	Failing E&S controls observed in several areas inspected. See Photos 7 through 32 for details. Repairs and/or replacements needed.	Repair/replace or install new E&S controls in accordance with BMPs and in accordance with the D&M Plan.	
Inland Wetland & Watercourse encroachment & mitigation	Interim Week	BluRoc has personnel on site performing restoration, stabilization, and E&S control repairs/replacements. Conditions appear to be the same as the previous inspection. No impacts to wetlands or watercourses observed.	Continue to monitor the stabilization of disturbed ground surfaces and storm water runoff from upland areas.	

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Inland Wetland and Watercourse encroachment and mitigation ( <i>Continued from previous page</i> )	Bi-Week	See comments in Water Crossing section, Page 3. Specifically, impacts to S-C4 and W-C20/VP-C20-1 (Photos 23-24 and 31-34).	Restore and stabilize areas, install E&S controls in accordance with BMPs to prevent impacts to wetlands and watercourse. Continue to monitor the stabilization of disturbed ground surfaces and access road erosion during storm events and surface water runoff from upland areas.	
Spills and Material Storage	Interim-Week	None observed, none reported.	N/A	
Spills and I	Bi-Week	None observed, none reported.	N/A	

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ngered Species	Interim Week	None observed, no sightings reported BluRoc.	N/A	
Rare, Threatened, and Endangered Species	Bi-Week	None observed, no sightings reported BluRoc.	N/A	
Additional Comments Notes:		umentation		
<b>Open Iten</b> See attached		m previous inspections: log om previous inspections:		

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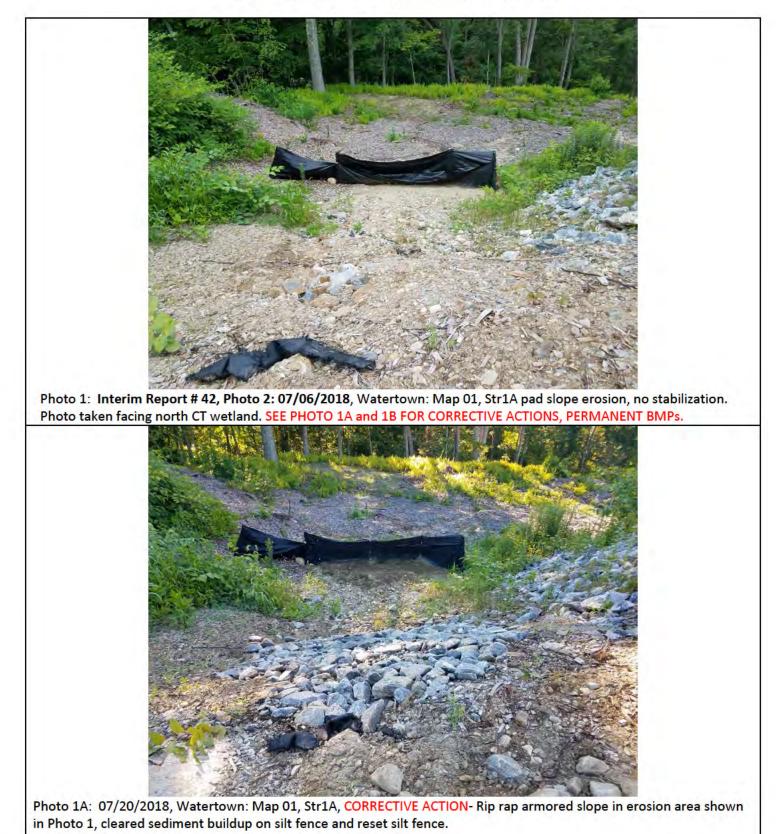
Next likely scheduled inspection: 08/03/2018

I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statements made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

Independent Field Inspector:

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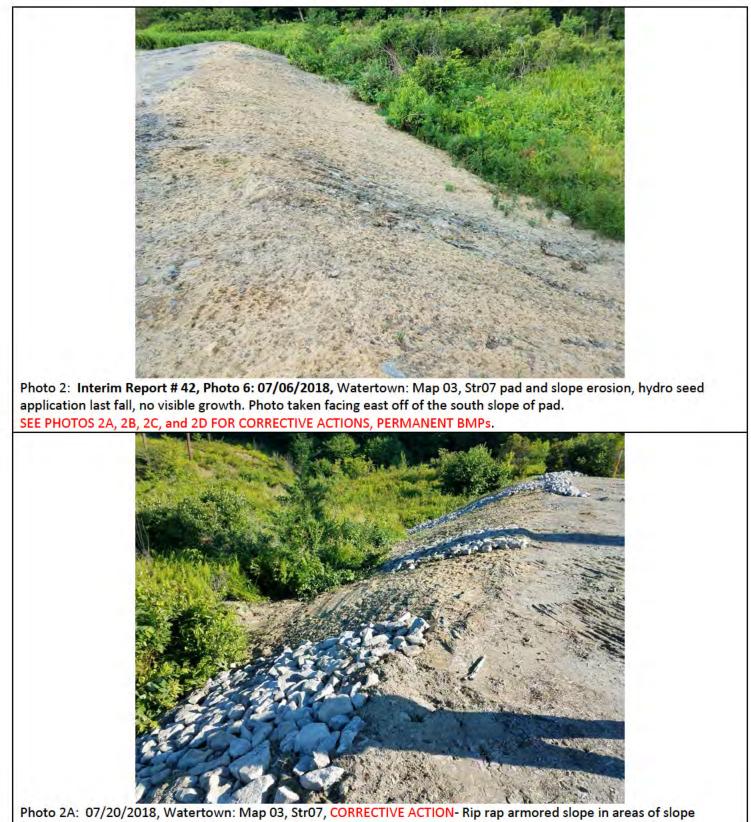
**Reviewer:** 



Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	
07/20/2018	Paul Cyr	8 of 28	Watertown to Harwinton	Interim Report #43	FBC



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07/20/2018	Paul Cyr	9 of 28	Watertown to Harwinton	Interim Report #43	FBC



erosion as shown in Photo 2.

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07/20/2018	Paul Cyr	10 of 28	Watertown to Harwinton	Interim Report #43	FBC

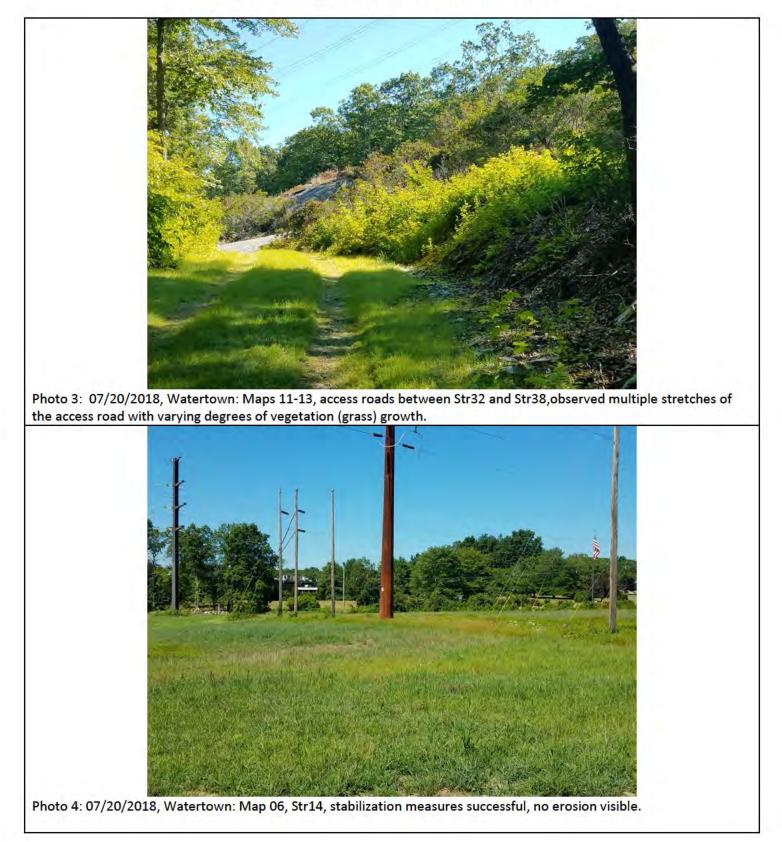


erosion as shown in Photos 2 and 2B.

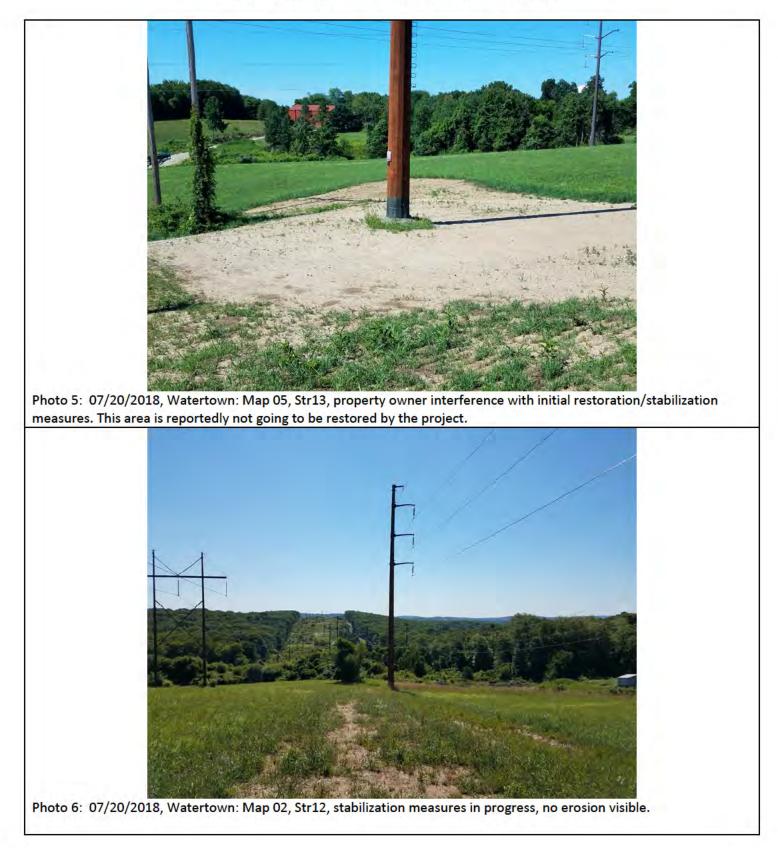
Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	
07/20/2018	Paul Cyr	11 of 28	Watertown to Harwinton	Interim Report #43	FBC



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07/20/2018	Paul Cyr	13 of 28	Watertown to Harwinton	Interim Report #43	FBC



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07/20/2018	Paul Cyr	14 of 28	Watertown to Harwinton	Interim Report #43	FBC

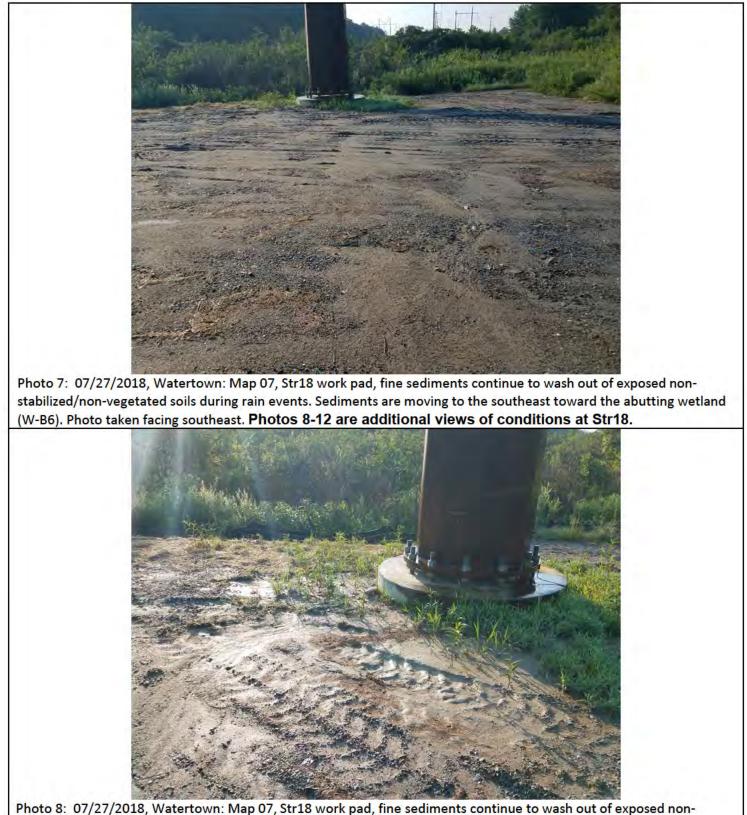
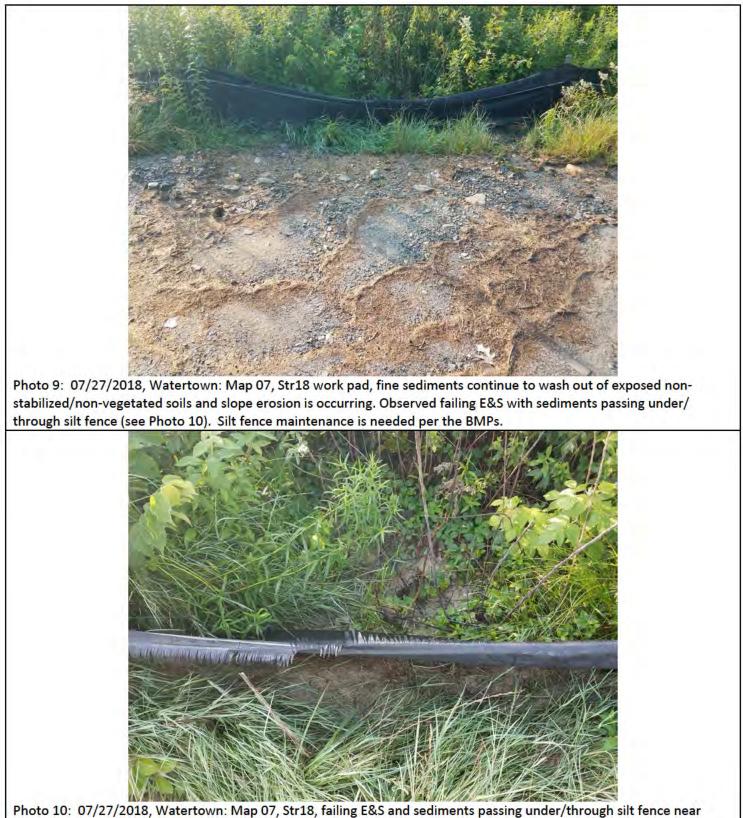


Photo 8: 07/27/2018, Watertown: Map 07, Str18 work pad, fine sediments continue to wash out of exposed nonstabilized/non-vegetated soils during rain events. Sediments appear to be accumulating on the upland side of the structure foundation. Photo taken facing southeast.

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07/27/2018	Paul Cyr	15 of 28	Watertown to Harwinton	Biweekly Report #43	FBC



or into wetland W-B6. Silt fence maintenance needed per the BMPs. Photo taken facing southeast.

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07/27/2018	Paul Cyr	16 of 28	Watertown to Harwinton	Biweekly Report #43	FBC



Photo 11: 07/27/2018, Watertown: Map 07, Str18 work pad and slope, slope erosion occurring, silt fence maintance needed (tattered and sagging due to sediment buildup). Stabilization measures in place consists of a single layer of stone (inconsistently placed with areas of exposed soils) and straw mulch placed on slope (no grass seed applied to pad slopes). Sediments have accumulated at the toe of the slope due to recent heavy rainfall events. Photo taken facing east. See Photo 12 for additional view.



Photo 12: 07/27/2018, Watertown: Map 07, Str18 work pad and slope, close up view of area as shown in Photo 11.

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07/27/2018	Paul Cyr	18 of 28	Watertown to Harwinton	Biweekly Report #43	FBC

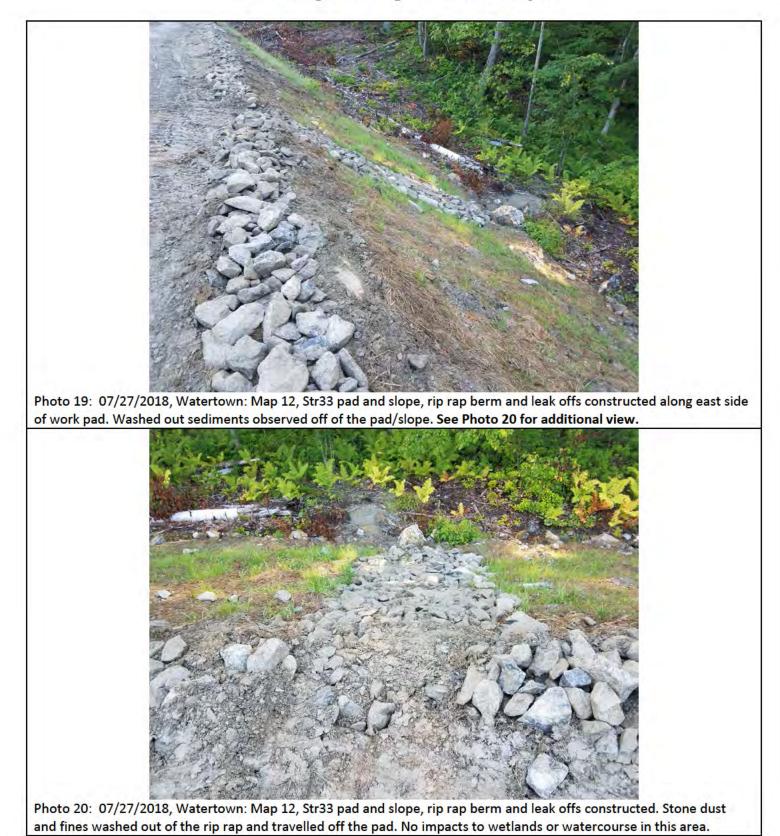


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rip rap swale and sediment trap (as shown in Photo 17).

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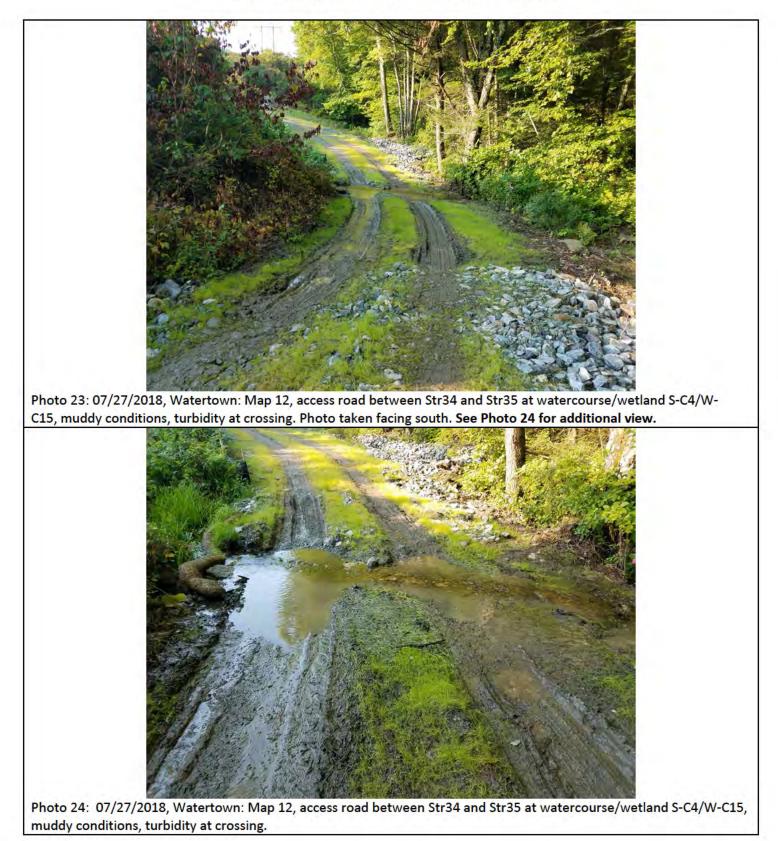


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07/27/2018	Paul Cyr	21 of 28	Watertown to Harwinton	Biweekly Report #43	FBC

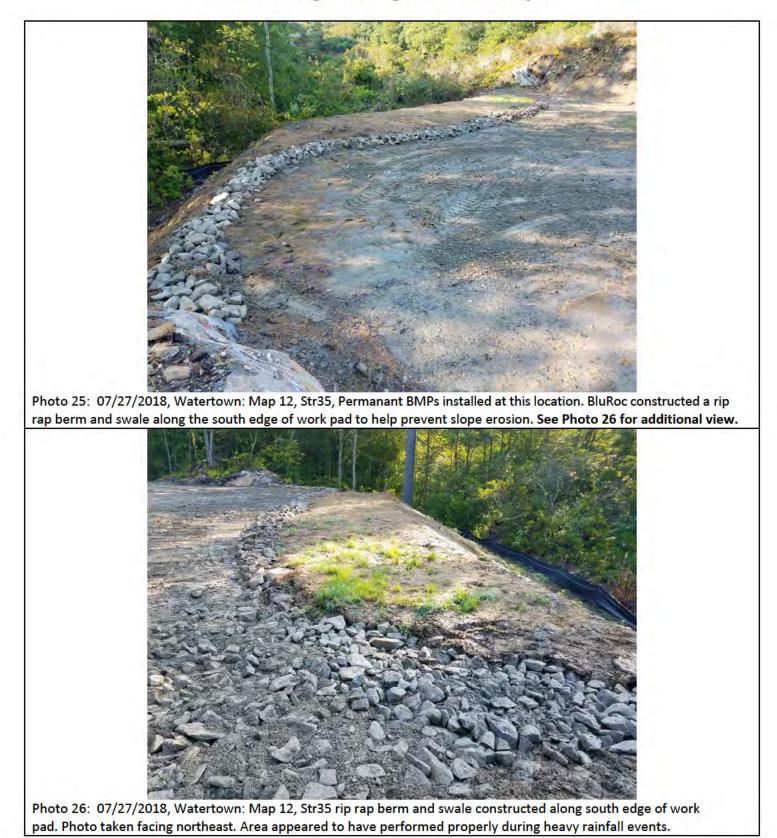


Photo 22: 07/27/2018, Watertown: Map 12, access road between Str34 and Str35, water bar and sediment trap, overloaded with fines, failing silt fence and degraded straw bales, sediments breaking through and moving toward wetland W-C15.

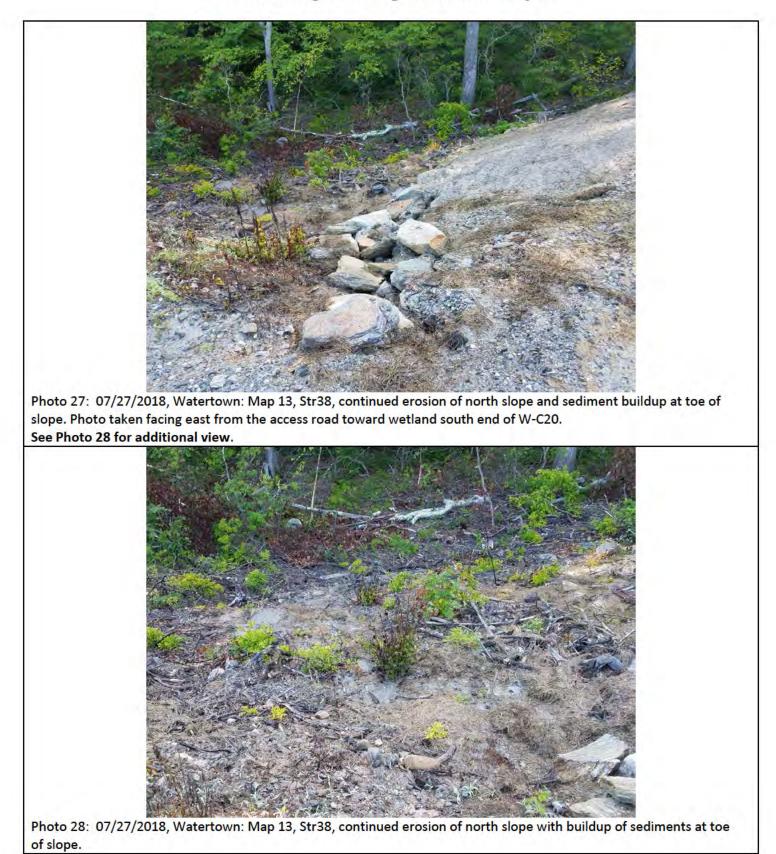
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07/27/2018	Paul Cyr	22 of 28	Watertown to Harwinton	Biweekly Report #43	FBC



Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	
07/27/2018	Paul Cyr	23 of 28	Watertown to Harwinton	Biweekly Report #43	FBC

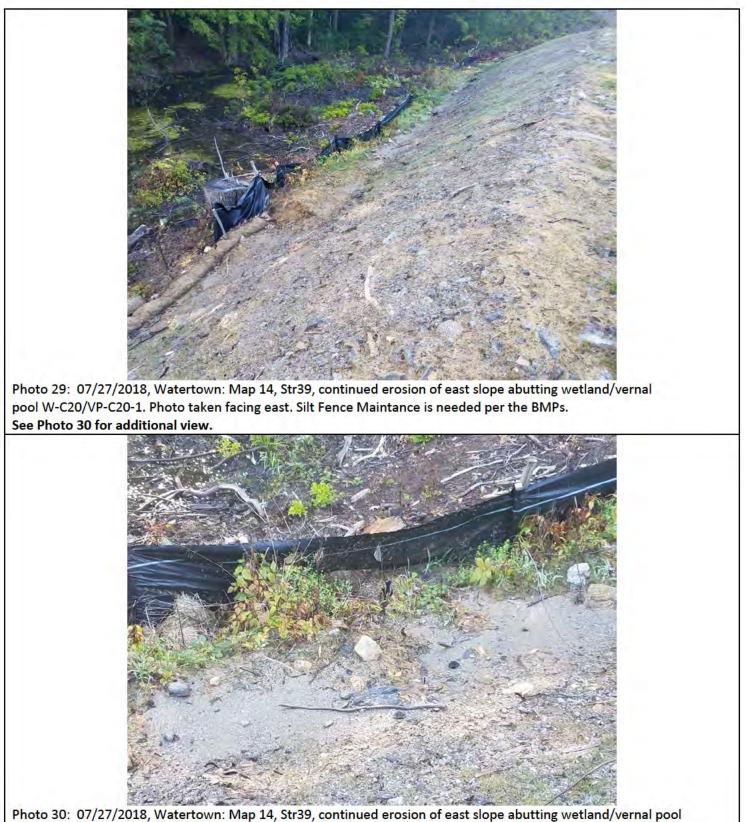


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07/27/2018	Paul Cyr	24 of 28	Watertown to Harwinton	Biweekly Report #43	FBC



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07/27/2018	Paul Cyr	25 of 28	Watertown	Biweekly Report #43	FRC

Harwinton



W-C20/VP-C20-1. Sediment buildup at toe of slope against silt fence abutting wetland/vernal pool.

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07/27/2018	Paul Cyr	26 of 28	Watertown to Harwinton	Biweekly Report #43	FBC



Photo 32: 07/27/2018, Watertown: Map 14, access road north of Str39 crossing wetland/vernal pool W-C20/VP-C20-1, continued movement of fine sediments during rain events impacting wetland/vernal pool. Photo taken facing southwest.

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continued movement of fine sediments during rain events impacting wetland/vernal pool. Photo taken facing south into the wetland/vernal pool from the access road.



Photo 34: 07/27/2018, Watertown: Map 14, access road north of Str39 crossing wetland/vernal pool W-C20/VP-C20-1, continued movement of fine sediments during rain events impacting wetland/vernal pool. Failing E&S controls. Photo taken facing south into the wetland/vernal pool from the access road.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
07/27/2018	Paul Cyr	28 of 28	Watertown to Harwinton	Biweekly Report #43	