



Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854

978.970.5600 PHONE
978.453.1995 FAX

www.TRCSolutions.com

September 16, 2017

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 #20, for the **September 1st** and **September 8th, 2017**, inspection events for the construction of the Eversource Frost Bridge to Campville 115-kV Project.

If you have any questions, please contact me at kobrion@trcsolutions.com or (508) 298-1009.

Sincerely,

A handwritten signature in black ink, appearing to read "Kevin M. O'Brion".

Kevin M. O'Brion
Environmental Scientist/Project Manager
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 Harwinton, 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: 09/01/2017

Inspector: Paul Cyr

Rain Event:

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

- Watertown, Maps 09-16, Str24 to Str46
- Thomaston, Map 17, Str47 and Str48
- Thomaston, Maps 18-20, Str51 to Str56
- Thomaston, Maps 21-22, Str60 to Str62
- Watertown, Map 2, Str3 and Str4
- Watertown, Maps 3, 3A, and 3B, Str5 to Str7

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

PAR is actively working at Str26 pulling cables (Helicopter on site), and PAR has equipment staged at Str46, Str40, and Str39.

ROW/SUBSTATIONS

Bi-Weekly Week Inspection:

Date: 09/08/2017

Inspector: Paul Cyr

Rain Event: 2.41" (9/3-9/7)

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

- Watertown, Maps 09-16, Str24 to Str46
- Thomaston/Litchfield, Maps 25-26, Str71 to Str73
- Litchfield, Map 29, Str81
- Litchfield, Map 29, Str83
- Harwinton, Maps 32-34, Str88-Str94
- Harwinton, Map 35, Str95
- Harwinton, Map 35, Campville Substation
- Watertown, Map 01, Str1B and Str2
- Watertown, Map 06, Str15

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

No work observed. PAR had equipment staged at Str2 (Map 01) and Str15 (Map 06). New River Electrical had equipment staged at Str1B (Map 01) for the overhead line to subsurface connection at Frost Bridge Substation. One individual from Northern was observed in the area of Str24 through Str46 inspecting ROW conditions including E&S controls following the two rain events which occurred on 9/3 into 9/4 (1.43" total), and 9/6 into 9/7 (0.98" total).

Areas of Inspection		Observation:	Recommended Action/s:	Corrected Action/s:
Access Roads and Adjacent Roadways	Interim Week	ROW access roads appear in good condition with no tire rutting or erosion issues observed.	N/A	N/A
	Bi-Week	ROW access roads appear in good condition overall in areas inspected today with the exception of multiple areas between Str27 and Str45 where erosion and sediment buildup was observed. CONTINUED SEE BELOW-	Repair and maintain ROW access roads, pads, and slopes to prevent movement of soil during future rain events until restoration can be completed and turf has been established.	PENDING
Vegetative Clearing Limits (Including trees to save or danger trees noted.	Interim Week	09/01/17: None occurring at this time. 09/08/17: Access road north of Str39 to W-C20 is in poor condition and storm water flow through this area is continuing to cause sediment buildup on perimeter E&S to the point where repeated break through has occurred over the duration of the project thus far impacting W-C20. See photos 10 through 13.	N/A	N/A
	Bi-Week	None occurring at this time.	N/A	N/A

Water Crossings	Interim Week	<p>Observed crossings are clear of tracked sediments and maintained as required.</p> <p>The timber mats set at W-C15/S-C5 need to be reset, they are shifting due to heavy equipment traffic around the bend of the access road, see photos #1 (09/01/17), #3 and #4.</p>	N/A	N/A
	Bi-Week	<p>Timber crossings at W-C15/S-C5, and at W-C20 need to be cleaned of excess sediments (See photos). No impacts to the underlying wetlands or watercourses due to sediments falling through gaps were observed. However, storm water flow across the timbers may cause buildup of sediments to wash into the underlying wetlands or watercourses if not cleared and maintained. The timber mats set at W-C15/S-C5 should be reset. Several mats have shifted due to equipment traffic in the ROW. See photos #1 (09/01/17) and photo #3 and #4 (09/08/17).</p>	<p>Resetting the timber mats at W-C15/S-C5 is purely a health and safety concern with respect to heavy equipment traffic and/or pedestrian foot traffic. No direct impacts to the wetland/watercourse was observed due to the shift in the mats.</p>	PENDING

Erosion and Sedimentation Controls	Interim Week	<p>Northern continues maintenance of existing E&S controls throughout the project ROW.</p> <p>In the ROW between Str24 and Str46 some minor buildup of sediments was observed in temporary sediment basins and along sections of silt fence, all were compliant and merely require preventative maintenance.</p>	<p>Continue to maintain existing E&S controls and install new controls were necessary.</p>	N/A
	Bi-Week	<p>In the areas between Str24 and Str46 some areas require minor maintenance and areas require full repair. Excess sediment buildup on sections of silt fences and in sediment basins are either to capacity or very near and some sediments have broken through and corrective action is required. See photos for exact locations.</p>	<p>Make corrective actions and continue to monitor following rain events.</p>	PENDING
Inland Wetland & Watercourse encroachment & mitigation	Interim Week	<p>Timber mat installations (temporary access roads and temporary structure pads) in wetland areas are in accordance with the BMPs. No out of bounds activities or disturbance observed.</p> <p>Sedimentation impacts which occurred during rain events and E&S control failures (July/August) observed in the areas between Str24 and Str46 into wetlands and vernal pool area are still in the progress of restoration. Northern is attempting to obtain an approved wetland seed mix to restore impacted areas. Restoration(seeding) & stabilization of specific areas impacted by sedimentation has also been discussed.</p>	<p>Continue to maintain and clear excessive build up of sediments to prevent sedimentation into wetlands and watercourses.</p>	N/A

<p style="text-align: center;">Inland Wetland and Watercourse encroachment and mitigation (Continued from previous page)</p>	<p style="text-align: center;">Bi-Week</p>	<p>Sedimentation impacts were observed at W-C20. Excess sediment buildup on perimeter silt fence and hay bales broke through impacting the wetlands. This is a reoccurring problem at this location due to poor road conditions upland (south towards Str39) of the impacted area.</p>	<p>Improve upland road conditions, remove excess sediments from perimeter E&S controls and restore wetlands under the direction of Davidson Environmental.</p>	<p style="text-align: center;">PENDING</p>
<p style="text-align: center;">Spills and Material Storage</p>	<p style="text-align: center;">Interim-Week</p>	<p>None observed or reported.</p>	<p style="text-align: center;">N/A</p>	<p style="text-align: center;">N/A</p>
	<p style="text-align: center;">Bi-Week</p>	<p>None observed or reported.</p>	<p style="text-align: center;">N/A</p>	<p style="text-align: center;">N/A</p>

Rare, Threatened, and Endangered Species	Interim Week	<p>BMPs and Rare Species Avoidance and Minimization Measures are being followed.</p> <p>No rare, threatened, or endangered species have been observed and/or reported to date.</p>	<p>Continue to follow BMPs and Rare Species Avoidance and Minimization Measures.</p>	N/A
	Bi-Week	<p>BMPs and Rare Species Avoidance and Minimization Measures are being followed.</p> <p>No rare, threatened, or endangered species have been observed and/or reported to date.</p>	<p>Continue to follow BMPs and Rare Species Avoidance and Minimization Measures.</p>	N/A

Additional Documentation

Comments:

09/01/2017: Eversource line/pole maintenance crews observed in various areas of the ROW working on pads in preparation of starting maintenance work.

Notes:

09/08/2017: Sediments are traveling into the catch basin on Campville Road at the edge of Str81 (Litchfield, Map 29). Sediments have built up in the sump to a point where sediments were observed inside the outlet pipe, see photos 21 and 22.


Open Items from previous inspections:

Closed Items from previous inspections:

Next likely scheduled inspection: 9/15/2017

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: 

Reviewer: 

Photograph Log

Frost Bridge to Campville 115kV Project



Photo 1: 09/01/2017, Watertown: Map 12, timber mat crossing at W-C15/S-C5, timbers pushed to the outside of the bend (seen at below the parked vehicle).



Photo 2: 09/01/2017, Thomaston/Litchfield: Maps 25-26, Eversource Maintenance crew at Str73 grading pad with excavator bucket.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
09/01/2017	Paul Cyr	8 of 18	Watertown to Harwinton	Interim Report #20	

Photograph Log

Frost Bridge to Campville 115kV Project



Photo 3: 09/08/2017, Watertown: Map 12, timber mat crossing at W-C15/S-C5, timbers pushed to the outside of the bend in the access road.



Photo 4: 09/08/2017, Watertown: Map 12, timber mat crossing at W-C15/S-C5, timbers pushed to the outside of the bend in the access road.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
09/08/2017	Paul Cyr	9 of 18	Watertown to Harwinton	Biweekly Report #20	

Photograph Log
Frost Bridge to Campville 115kV Project



Photo 5: 09/08/2017, Watertown: Map 13, South of Str36, temporary sediment basin, movement of sediments along access road caused by storm water flow.



Photo 6: 09/08/2017, Watertown: Map 13, south of Str36, excess sediments in temporary basin, sediment runoff from uncontrolled storm water flow off the access road.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
09/08/2017	Paul Cyr	10 of 18	Watertown to Harwinton	Biweekly Report #20	

Photograph Log

Frost Bridge to Campville 115kV Project



Photo 7: 09/08/2017, Watertown: Map 10, between Str26 and Str27, water bar flattened out, sediment buildup in temporary sediment pond.



Photo 8: 09/08/2017, Watertown: Map 10, between Str26 and Str27, excess buildup of sediment in temporary sediment pond.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
09/08/2017	Paul Cyr	11 of 18	Watertown to Harwinton	Biweekly Report #20	

Photograph Log
Frost Bridge to Campville 115kV Project



Photo 9: 09/08/2017, Watertown: Map 10, between Str26 and Str27, excess buildup of sediment in temporary sediment pond, excess buildup on silt fence.



Photo 10: 09/08/2017, Watertown: Map 14, access road north of Str39 to wetland W-C20, water bar flattened out.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
09/08/2017	Paul Cyr	12 of 18	Watertown to Harwinton	Biweekly Report #20	

**Photograph Log
Frost Bridge to Campville 115kV Project**



Photo 11: 09/08/2017, Watertown: Map 14, at southeast corner of timber mat crossing over wetland W-C20, excess buildup of sediments.



Photo 12: 09/08/2017, Watertown: Map 14, at southeast corner of timber mat crossing over wetland W-C20, excess buildup of sediments and breakthrough into W-C20.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
09/08/2017	Paul Cyr	13 of 18	Watertown to Harwinton	Biweekly Report #20	

Photograph Log

Frost Bridge to Campville 115kV Project



Photo 13: 09/08/2017, Watertown: Map 14, at southwest corner of timber mat crossing over wetland W-C20, excess buildup of sediments and sedimentation into W-C20.



Photo 14: 09/08/2017, Watertown: Map 15, access road between Str42 and Str43, rills and visible sediment flow off outer edge of road from uncontrolled surface water flow.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
09/08/2017	Paul Cyr	14 of 18	Watertown to Harwinton	Biweekly Report #20	

Photograph Log
Frost Bridge to Campville 115kV Project



Photo 15: 09/08/2017, Watertown: Map 15, access road between Str42 and Str43, rills and sediment flow off access road, sedimentation visible down to hay bales (previously restored area).



Photo 16: 09/08/2017, Watertown: Map 15, access road at Str44, rills and sediment flow off access road into wooded area.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
09/08/2017	Paul Cyr	15 of 18	Watertown to Harwinton	Biweekly Report #20	

Photograph Log

Frost Bridge to Campville 115kV Project



Photo 17: 09/08/2017, Watertown: Map 15, access road at Str44, rills and sediment flow off access road into wooded area.



Photo 18: 09/08/2017, Watertown: Map 15, access road between Str44 and Str45 at the CT State marked Hiking trail, rills and sediment flow off access road into the access point of hiking trail.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
09/08/2017	Paul Cyr	16 of 18	Watertown to Harwinton	Biweekly Report #20	

Photograph Log

Frost Bridge to Campville 115kV Project



Photo 19: 09/08/2017, Watertown: Map 15, access road between Str44 and Str45 at the CT State marked Hiking trail, rills and sediment flow off access road into the access point of hiking trail.



Photo 20: 09/08/2017, Watertown: Map 15, access road between Str44 and Str45 approximately 100 feet north of the CT State marked Hiking trail, rills and sediment flow off access road.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
09/08/2017	Paul Cyr	17 of 18	Watertown to Harwinton	Biweekly Report #20	

Photograph Log
Frost Bridge to Campville 115kV Project



Photo 21: 09/08/2017, Litchfield, Map 29: At Str81, sediment flow into the catch basin located on Campville Road, no silt sack or catch basin protection



Photo 22: 09/08/2017, Litchfield, Map 29: At Str81, sediment flow into the catch basin located on Campville Road, no silt sack or catch basin protection

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
09/08/2017	Paul Cyr	18 of 18	Watertown to Harwinton	Biweekly Report #20	