

Docket No. 424 – Development and Management Plan Inspection

The Connecticut Light and Power Company Certificate of Environmental Compatibility and Public Need for the Connecticut portion of the Interstate Reliability Project.

IRP Overhead ROW

Interim Week Inspection:

Date: May 1, 2014

Inspector: John Corbo, E.I.T.

Rain Event: 2.5" on April 30th, 2014

Location (reference February 2014 D&M Plans):

Card Street Substation, Lebanon CT (CSSS)
Lebanon, CT: MS 1 of 66 (Str. 1-6)
Columbia, CT: MS 2-5 of 66 (Str. 7-24)
Mansfield, CT: MS 8-17 of 66 (Str. 36-91)
Chaplin, CT: MS 18-23 of 66 (Str. 92-123)
Killingly, CT: MS 52-54 (Str. 262-272)
Card Street Substation, Lebanon CT (CSSS)
Killingly Substation, Killingly, CT (KS): MS 54

Work Observed

MS1, CSSS: Delivery of construction materials

MS54, Str 272: Drilling operations

MS53, Str 267: Drilling operations

IRP Overhead ROW

Bi-Weekly Week Inspection:

Date: May 9, 2014

Inspector: John Corbo, E.I.T.

Rain Event:

Location (reference February 2014 D&M Plans):

Card Street Substation, Lebanon CT (CSSS)
Columbia, CT: MS 2-5 of 66 (Str. 7-24)
Coventry, CT: MS 6-7 of 66 (Str. 25-34)
Mansfield, CT: MS 8-17 of 66 (Str. 36-91)
Chaplin, CT: MS 18-23 of 66 (Str. 92-123)
Killingly, CT: MS 52-54 (Str. 262-272)
Killingly Substation, Killingly, CT (KS): MS 54

Work Observed

MS3: Installation of wetland mats at Str 15, installation of silt fence up-line of Str 15.

MS4: Hammering ledge with excavator at Str 22.

MS5: Clearing of trees up-line of Str 23.

MS6: Delivery of construction materials.

MS17: Backfilling caisson for direct embed Str 89, delivery of materials.

Areas of Inspection		Observation:	Recommended Action:	Corrected Action:
Access Roads and Adjacent Roadways	Interim Week (5/1)	Adjacent roadways clear and free of sediment at all visited sites.	Continue to follow this procedure.	NA
	Bi-Week (5/9)	Adjacent roadways clear and free of sediment at all visited sites.	Continue to follow this procedure.	NA
Vegetative Clearing Limits (Including trees to save or danger trees noted.)	Interim Week (5/1)	Project clearing appears to be in accordance with D & M plans.	NA	NA
	Bi-Week (5/9)	Project clearing appears to be in accordance with D & M plans.	NA	NA
Water Crossings	Interim Week (5/1)	All crossings appear to be functioning in accordance with the BMP Manual.	Continue to follow this procedure.	NA

	Bi-Week (5/9)	All crossings appear to be functioning in accordance with the BMP Manual. No sediment appears to be entering the streams or wetlands.	Continue to follow this procedure.	NA
Erosion and Sedimentation Controls	Interim Week (5/1)	<p>CSSS: Observed sedimentation of the wetland swale south of the Card Street substation (see Additional Documentation Comments for further information). To minimize further sedimentation of the area, an additional row of straw wattles were installed along south substation fence parallel to wetland swale.</p> <p>Str 4: Observed portion of silt fence damaged up-line of Str 4 on right side of access road before first existing culvert.</p> <p>Silt fence installations along ROW observed during inspection appear to be in accordance with BMP Manual.</p> <p>Noted that stockpile areas along ROW are being surrounded with straw wattles.</p>	<p>NA</p> <p>Repair silt fence.</p> <p>Continue to follow this procedure.</p> <p>Continue to follow this procedure.</p>	<p>Str 4-5: Holes in silt fence noted in previous bi-weekly report have been fixed.</p> <p>NA</p> <p>P. Lockwood noted observation</p> <p>NA</p> <p>NA</p>
	Bi-Week (5/9)	<p>NA</p> <p>CSSS: Sedimentation of the wetland swale south of the substation during heavy rain events has not yet been rectified.</p> <p>Silt fence installations along ROW observed during inspection appear to be in accordance with BMP Manual.</p>	<p>NA</p> <p>CL&P and Burns and McDonnell continue to investigate a solution to what appears to be a pre-existing condition.</p> <p>Continue to follow this procedure.</p>	<p>Str 4: P. Lockwood indicated that the damaged silt fence up-line of Str 4 has been fixed.</p>

Inland Wetland and Watercourse encroachment and mitigation	Interim Week (5/1)	<p>CSSS: Sedimentation of the wetland swale south of the substation was observed.</p> <p>Str 95-96: Observed fine coating of sediment in wetland at base of access road up-line of Str 95 due to storm water migrating around existing BMP's.</p>	<p>See Additional Documentation Comments for further information.</p> <p>Extend erosion controls in this area to prevent migration of the sediment laden stormwater from entering wetland. Due to the limited amount and fine particle size of sediment that entered the wetland at this point, it would be more damaging to the wetland to attempt to remove the sediment.</p>	<p>NA</p> <p>(5/9): Waterbars were installed to divert water to a diversion swale on the side of the access road. (See photo 10 & 11)</p>
	Bi-Week (5/9)	<p>Mat installations in wetland areas are in accordance with the BMP Manual.</p>	<p>Continue to follow this procedure.</p>	<p>NA</p>
Spills and Material Storage.	Interim Week (5/1)	<p>CSSS: Observed non-project related diesel spill on the entrance tracking pad to Card Street Substation. (See Additional Documentation Comments) (photo 1).</p> <p>Spill kits noted on all visited sites.</p>	<p>NA</p> <p>Continue to follow this procedure.</p>	<p>Burns and McDonnell Representatives indicated that all contaminated stone and underlying geotextile will be removed and replaced.</p> <p>NA</p>
	Bi-Week (5/9)	<p>CSSS: P. Lockwood indicated that contaminated stone and Geotextile have been replaced at the substation entrance.</p> <p>Spill kits noted on all visited sites.</p>	<p>NA</p> <p>Continue to follow this procedure.</p>	<p>NA</p> <p>NA</p>
Cultural Resources	Interim Week (5/1)	<p>NA</p>	<p>NA</p>	<p>NA</p>

	Bi-Week (5/9)	Pads in cultural areas are being installed with a geotextile separation fabric and sand buffer layer prior to the installation of the pad material.	NA	NA
Rare, Threatened, and Endangered Species	Interim Week (5/1)	NA	NA	NA
	Bi-Week (5/9)	NA	NA	NA

Additional Documentation Comments:

Notes for 5/1/2014:

- **CSSS:** Observed diesel fuel spill on Card Street entrance pad. (Follow-up communications with Burns and McDonnell representatives indicated the truck causing the spill was associated with work within the substation not part of the IRP Station Modifications. B & M Representatives indicated the Interstate station contractors responded to the spill using the spill kits they has onsite and the emergency response contractor (McVac) was dispatched later that morning to clean up the area. The contamination was contained in uplands and additional oil booms were deployed around the area for additional safety measures.) (see photo 1)
- **CSSS:** The sediment discharged to the wetland swale, observed approximately 50 feet to the northwest of the entrance, appears to be originating from within the substation and is associated with the original substation design. An additional row of straw wattles were installed for further protection, however, the sediment appears to be filtering through the stone, under the perimeter controls and discharging into the wetland. CL&P and Burns and McDonnell Project Management is aware of the situation and is actively searching for a solution to prevent further discharge. (See photo 2)
- **MS21:** The land owner east of Chewink Road, in the vicinity of Str 113 and 114, hired a private (not project related) contractor to remove the existing stone walls on his property. In the process of removing the stone walls, the existing unimproved access road used by the private contractor became very muddy and deeply rutted. Also, it appears the private contractor excavated a drainage trench near vernal pool CH-13-VP to divert and lower the water level to enable the private contractor's equipment to gain access to the stone walls opposite the pool. Northern Contractors decided to temporarily stand down work in this area due to the instability of the site and undefined actions of the land owner. (See photos 3 and 4)
- Drilling operations ongoing for Str 271 and 272.

Notes for 5/9/2014:

- **CSSS:** Geotextile fabric and construction entrance pad changed due to a diesel fuel spill that was associated with work within the substation not part of the IRP station modifications. (See photo 5)

Open Items:

1. Continue to investigate and resolve sediment discharge into wetland swale at Card Street Substation during heavy rain events.
2. Recommend additional silt fence installation adjacent to Str 5 to further protect wetland area.

Closed Items:

Next likely scheduled inspection:

May 14, 2014

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: John M. Corbo, EIT 5/12/2014

Owner's Field Inspector: _____

Reviewer: Paul Krapik 5/15/2014



Photo #1: (5/1) (southeast) Diesel spill at CSSS entrance road (not project related)



Photo #2: (5/1) (southwest) View of discharge into wetland swale at CSSS.



Photo #3: (5/1) View of existing unimproved access road ruts by land owner on MS21.



Photo #4: (5/1) View facing vernal pool CH-13-VP showing excavation trench installed by land owner at center of photo.



Photo #5: New geotextile fabric and entrance pad at CSSS.



Photo #6: Erosion & sedimentation control measures up-line of Str 11.



Photo #7: Installation of wetland mats at Str 15.



Photo #8: Silt fence installation up-line of Str 15 in accordance with BMP Manual.



Photo #9: View of backfill and compaction of direct embed caisson for Str 89.



Photo #10: View of new waterbars and diversion swale to improve existing BMP's on access road up-line of str 95.



Photo #11: View of new diversion swales up-line of Str 95.



Photo #12: Delivery of Steel H-Frame Structure # 271.