

**Docket No. 272 – Development and Management Plan Inspection**

**The Connecticut Light and Power Company Certificate of Environmental Compatibility and Public Need for the construction of a new 345-kV electric transmission line and associated facilities between Scovill Rock Switching Station in Middletown and Norwalk Substation in Norwalk, Connecticut, including reconstruction of portions of existing 115-kV and 345-kV electric transmission line, the construction of Beseck Switching Station in Wallingford, East Devon Substation in Milford, (and Singer Substation in Bridgeport), modifications at Scovill Rock Switching Station and Norwalk Substation, and the reconfiguration of certain interconnections.**

**Segment 2a Inspection**

**Date:** November 20, 2007

**Inspector:** Matthew Creighton

**Location:** Segment 2a – Beseck Switching Station to Cheshire/Hamden Town Line

**Rainfall:** 0.67" of precipitation was recorded in the week prior to inspection with 0.41" of the total reported on 11/15 (NOAA data at Meriden, CT).

<b>Areas of Inspection</b>	<b>Observation</b>	<b>Recommended Action</b>	<b>Corrected Action</b>
<b>Access roads and adjacent roadways</b>	<b>Timber mats are in place at wetland crossings and staging areas. 11/20/07</b>	<b>See Erosion Control Section for more details 11/20/07</b>	<b>Not applicable (NA)</b>
<b>Carpenter Ln. to Rte 68</b>	<b>South of Carpenter Ln, some timber mat &amp; stone staging areas remain within wetlands. Sediment is accumulating along controls at drainage ditch. 8/28-11/13/07 Turbid run-off was noted in the wetlands for several weeks, each following a rain event. 11/6-11/20/07</b>	<b>Add controls as needed along the wetlands. See the erosion control section for more details. 11/20/07</b>	<b>Needs attention</b>
	<b>A culvert remains in place at a small access road stream crossing to reach several pad sites between High Hill Rd. and Carpenter Ln. 11/20/07</b>	<b>Add controls as needed along the access road. Monitor stream for sediment. Wetland crossings will need to be restored at the end of the project. 11/20/07</b>	<b>NA</b>
<b>Durham Rd. Liney Hall Ln.</b>	<b>An equipment bridge crossing remains over the Muddy River tributary and a second bridge is in place off Liney Hall Rd. to access structure #24272. 11/20/07</b>	<b>Continue to monitor and add controls as needed. 11/20/07</b>	<b>NA</b>
<b>Williams Rd. to East</b>	<b>Stone is in place for</b>	<b>Stone should be removed</b>	<b>NA</b>

Areas of Inspection	Observation	Recommended Action	Corrected Action
Center St.	access at a previously mowed area off Williams Rd. 11/20/07	and lawn area should be restored upon completion of the project work. 11/20/07	
S. Turnpike + Merritt Parkway Area; Mansion Rd.; Durham Rd.; Stony Brook; Carpenter Ln.; Pent Rd.; Oliver Creek Rd.	No sediment tracking was noted on any of these roadways and the adjacent areas appear stable. Stone construction entrance pads remain in place at entrances. 11/20/07	Continue to monitor entrances and sweep as needed. 11/20/07	NA
Pond Hill Rd. Docker Dr.	Timber mats remain in place at the wetland crossings off Pond Hill Rd. Turbid water was noted pooling against controls off Docker. Dr. 11/6-11/20/07	Continue to monitor entrances and sweep as needed. Add controls adjacent to the crossing and along slopes as necessary. 11/20/07	Needs additional attention.
Mansion Rd to Tuttle Ave.	A culvert remains in place to help prevent ponding in the access road. Water bars remain in place across the access road to slow and filter stormwater. 11/20/07	Monitor the area and add controls if needed. 11/20/07	NA at this time.
Old Farms Road	Plywood is being used on driveways crossing the ROW to reduce the impact from equipment. 11/20/07	Continue to monitor for sediment on roadway and driveways; continue to use rubber mats or plywood to protect driveways. 11/20/07	NA
	Turbid water was noted flowing onto the roadway from an exposed slope at structure #24209 in the ROW. The run-off was entering a catch basin. 11/6-11/20/07	Additional controls are needed along the slope and access road in the ROW to contain sediment. Ensure proper controls are in the catch basin. 11/20/07	Needs attention.
	Hydroseed remains along the exposed soils at the edge of the roadway. 11/20/07	Continue to monitor until stabilization is achieved. 11/20/07	NA
Old Farms Rd. (115kV Underground trench-work)	The edge of one homeowner's driveway that was damaged during construction still needs	Sweep roadway as needed as long as work occurs in the area. Repair the damaged driveway. 9/6-	Needs attention.

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	<p>repair. 9/6-11/20/07</p> <p>The 2<sup>nd</sup> damaged driveway was repaired with asphalt. However, the damaged portion was originally a brick paver and should be consistent 9/6-11/20/07</p>	<p>11/20/07</p> <p>Repair the driveway to the satisfaction of the landowner (e.g replace appropriate material). 9/6-11/20/07</p>	<p>Needs attention</p>
<p><b>Foundation and site construction</b></p> <p>Carpenter Lane, High Hill Rd., Rt 68</p> <p>Durham Rd. Liney Hall Lane Williams Rd to East Center St.</p> <p>Tamarack Swamp Rd.</p> <p>Pond Hill Rd. &amp; Docker Dr. (I 91 – Rte. 5)</p> <p>Pent Rd. &amp; Oliver Creek Rd.</p> <p>S. Turnpike + Merritt Parkway Area</p> <p>Mansion Rd. Apple Orchard</p> <p>Old Farms Rd.</p>	<p>No new work off Carpenter Ln since crews removed one pad site and added seed and hay. 11/20/07</p> <p>Foundation/pole work appears complete from Durham to Williams Rd. Crews were installing grounding wires off Durham Rd. 11/20/07</p> <p>No new work since the foundation was installed within wetlands. 11/20/07</p> <p>No new work since line installation was completed. 11/20/07</p> <p>No new activity since line work was underway, moving into the landfill 11/20/07</p> <p>Pole installation is complete. 11/20/07</p> <p>Crews were reclaiming pad sites within the Orchard during the inspection. 11/20/07</p> <p>Line work underway at the underground transition area. 11/20/07</p>	<p>See erosion control section and continue to restore the area. 11/20/07</p> <p>Monitor and maintain controls when working around wetlands. Stabilized disturbed areas within timeframes when work is complete. 11/20/07</p> <p>Monitor controls and add more as needed. See erosion control section for more details. 11/20/07</p> <p>See EC section for more detail. 11/20/07</p> <p>Add/adjust controls as necessary. 11/20/07</p> <p>See erosion control section. 11/20/07</p> <p>Monitor exposed areas and stabilize sufficiently for the D&amp;M plans 11/20/07</p> <p>Controls are needed at the transition area. See erosion control section. 11/20/07</p>	<p>See erosion control section</p> <p>NA</p> <p>See erosion control section</p> <p>See erosion control section</p> <p>NA</p> <p>NA</p> <p>Crews were reclaiming pad sites.</p> <p>See erosion control section</p>
<p><b>Erosion and sediment controls</b></p>	<p>Sediment accumulation was noted here at</p>	<p>Remove any accumulated sediment and stabilize the</p>	<p>Needs attention <i>Temporary stabilization</i></p>

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Carpenter Ln. to Rt. 68	<p>controls (since 6/19). During rain events, turbid water continues to be noted within wetlands. Haybales have deteriorated and can no longer filter sediment. 11/6-11/20/07</p> <p>Some areas remain exposed following partial restoration efforts in the area. Turbid run-off was noted flowing into the wetlands. Controls are needed around the pad. 11/6-11/20/07</p>	<p>area. 6/19-11/13/07 Replace controls and reinforce them around disturbed areas along the wetlands and access roads. Any areas where work will not return for 21 days needs temp. stabilization. 11/6-11/20/07</p> <p>Add controls adjacent to wetlands. Any areas where work will not return for 21 days need temporary stabilization. 11/6-11/20/07 This area is at 21 days. 11/20/07</p>	<p><i>requires more than silt fence/haybales in place</i></p> <p><b>Needs attention.</b></p>
Durham Rd.	<p>Controls remain intact along the access road and bridge south of Durham Rd. Exposed soils were graded and seeded in some areas. 11/20/07</p>	<p>Monitor and add controls as needed adjacent to wetlands. 11/20/07</p>	<p>NA</p>
Liney Hall Ln.	<p>Timber mats and fiber rolls remain in place and a bridge is in place across Muddy Brook. 11/20/07</p> <p>Concrete testing samples were removed from the wetland according to the contractor. 11/20/07</p>	<p>Monitor and add controls along the road as needed. Stabilize area impacted by timber mats. 11/20/07</p> <p>See spill section for more details on the concrete. 11/20/07</p>	<p>Monitor closely and increase controls as needed.</p> <p>Concrete was removed according to the contractor.</p>
Williams Rd to East Center St.	<p>Timber mats and silt fence remain in place at the Stony Brook site access. The continued disturbance/fill of the exposed soil adjacent to wetlands off Williams Rd. was determined to be related to the landowner activities. No controls were added. 11/20/07</p>	<p>Attempt to add appropriate controls between the exposed soil and the undisturbed portion of wetlands even though landowner activities continue here 11/20/07</p>	<p>Most issues are related to the landowner but attempt to improve if feasible</p>
Tamarack Swamp Rd.	<p>A pad and foundation remain within wetlands with an adjacent area of standing water. Sediment from the foundation work</p>	<p>Carefully pull back and remove remaining sediment from beyond the silt fence as soon as possible. 10/30-</p>	<p>Additional attention is needed.</p>

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<p><b>Woodhouse Ave. Harrison Rd.</b></p>	<p>had been pushed over the existing controls (noted 10/23), so new silt fence was added (10/30) to contain it. However, some sediment remains beyond the fence. 11/6-11/20/07</p> <p>The previous stockpile area off Woodhouse Ave. remains mulched and seeded with controls in place. Some vehicle tracks were noted in the reclaimed areas. 11/20/07</p> <p>Controls, including several large fiber rolls remain along the slope and at the sediment trap. The large gully on the slope should be addressed. 9/25-11/20/07</p> <p>A portion of the soil stockpile off Harrison Rd. was removed. Controls are in place around the remainder. The planted shrubs along the stream channel are in good shape. 11/20/07</p>	<p>11/20/07</p> <p>Monitor controls until area is stabilized. Avoid access once an area is temporarily or permanently stabilized. 11/20/07</p> <p>Continue to monitor and adjust controls as needed. The eroded gully should be graded and stabilized to avoid undermining the controls. 10/2-11/20/07</p> <p>Maintain controls and monitor exposed soils. Temporarily stabilize areas if work activities will not return within 21 days. 11/20/07</p>	<p>NA at this time.</p> <p>Gully needs evaluation/attention.</p> <p>Some of the stockpile has been removed.</p>
<p><b>Pond Hill Rd. &amp; Docker Dr. (I 91 – Rte. 5)</b></p>	<p>Silt fence was installed downgradient of a pad site. Small ruts noted at the edge of the pad. 11/20/07</p> <p>Turbid water was noted ponding at the edge of the controls off Docker Dr. Large areas of exposed soils had previously been seeded but it appears most seed/mulch has washed away. 11/6-11/20/07</p>	<p>Monitor new controls for effectiveness. 11/20/07</p> <p>Maintain controls. Additional mulch is needed this time of year to encourage stabilization 11/6-11/20/07</p>	<p>Silt fence added.</p> <p>Needs evaluation/attention.</p>
<p><b>Old Fams Rd.</b></p>	<p>Turbid run-off was noted again this week, flowing from exposed soil near</p>	<p>Stabilize disturbed areas to the extent feasible. Add controls as needed to</p>	<p>Needs attention</p>

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	<p>structure #24209 into catch basins in the roadway and eventually to off-site wetlands. 11/6-11/20/07</p>	<p>contain sediment and filter run-off. Monitor receiving catch basins controls. A culvert should be considered at driveway crossings to reduce run-off. 11/6-11/20/07</p>	
<p><b>Inland Wetland and Watercourse encroachment and mitigation</b></p> <p><b>Carpenter Ln. to Rte 68</b></p> <p><b>Durham Rd. Liney Hall Ln.</b></p> <p><b>Tamarac Swamp Road</b></p>	<p>Jurisdictional wetlands can be accessed now that ACOE permit is in hand.</p> <p>Sections of ROW are located within the McKenzie Watershed Protection District of the Town of Wallingford from existing pole #8798 to Beseck SS. 11/20/07</p> <p>Timber mat staging areas and several structures are in place within wetlands off Carpenter Ln. Sediment was noted accumulating at controls at the wetland edge (since 5/8) However, controls are now deteriorating and turbid water was noted within the wetland as a result of run-off from surrounding disturbed areas. 11/6-11/20/07</p> <p>Timber mats are in place at the wetland crossings in these sections and well installed bridges are in place for two larger stream channels. 11/20/07</p> <p>Pad and adjacent controls remain within wetlands. New silt fence was in place around the exposed soil at the foundation. However, some of the sediment that was pushed over original controls into wetlands was not fully</p>	<p>Approved work in wetlands will follow the permit guidelines. 11/20/07</p> <p>This area should be closely monitored. Monitor equipment for leaks whenever working in these sensitive areas. Refuel and store equipment outside of the district. 11/20/07</p> <p>Remove sediment from wetlands before removing controls. Monitor for run-off. 5/8-11/13/07 Replace the deteriorating controls and reinforce controls between the exposed work areas and the wetlands. Remove accumulated sediment. 11/6-11/13/07 Exposed areas need to be temporarily stabilized if work will not return in 21 days. 11/13-11/20/07</p> <p>Continue to monitor and add controls as needed. Monitor the bridge surface for sediment tracking. 11/20/07</p> <p>Continue to monitor controls and adjust as needed. Area is sensitive to erosion and should be monitored closely. Carefully remove any remaining sediment from the wetlands 11/6-11/20/07</p>	<p>NA</p> <p>Needs to be monitored</p> <p>Needs attention</p> <p>NA</p> <p>Needs to be monitored closely and needs some additional attention.</p>

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<p><b>Powers Rd. &amp; Woodhouse Ave.</b></p> <p><b>Woodhouse Ave. Harrison Rd.</b></p> <p><b>Mansion Rd to Tuttle Ave.</b></p> <p><b>Old Farms Rd.</b></p>	<p>wetlands was not fully contained. 11/6-11/20/07</p> <p>In the process of removing timber mats, sediment was pushed over some controls (8/28). Soils exposed by timber mat removal were seeded, but not all stone was removed from the wetland prior to seeding (noted 9/25) Now the area has well-established grass cover. 11/13-11/20/07</p> <p>Run-off from an existing catch basin has formed a gully in the slope that ends at the wetland/stream. Filter socks remain to slow water flowing down the slope (noted since 9/25) The gully does not appear to be worsening (since 11/13)</p> <p>Several wetland crossings are in place. 11/20/07</p> <p>Turbid water was still observed flowing from a pad site onto the roadway and into a catch basin. This eventually flows into wetlands off-site. 11/6-11/20/07</p>	<p>11/20/07</p> <p>Remove the stone from the wetlands to the extent feasible (recommended since 9/25) However, crews will be returning here for line work, potentially disturbing the area again before final stabilization. 10/10-11/20/07</p> <p>Monitor controls and continue stabilization efforts along the gully/washout. Even though it is not worsening the gully should still be repaired. 11/13-11/20/07</p> <p>Monitor and maintain new controls. 11/20/07</p> <p>Additional controls are needed within the catch basins and along the disturbed slope. 11/6-11/20/07</p>	<p>Further attention is needed here during final stabilization.</p> <p>Needs evaluation/proactive attention.</p> <p>Controls appear to contain and filter run-off.</p> <p>Needs attention.</p>
<p><b>State species of concern, threatened and endangered species.</b></p> <p><b>Liney Hall Rd</b></p>	<p>A no entry sign remains near the potential vernal pool off Stony Brook Rd. as an appropriate alternative to construction fencing. 11/20/07</p> <p>Several frog and salamander egg masses were noted in the spring within prime amphibian breeding habitat, located off Liney Hall Ln.. This is</p>	<p>Continue to monitor area and retain distance from active work. 11/20/07</p> <p>Prevent turbidity and direct impacts to these areas to the extent feasible. Property owner has mowed the area. 11/20/07</p>	<p>NA</p> <p>NA</p>





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<p>Pond Hill Rd. &amp; Docker Dr. (I 91 – Rte. 5) Pent Rd. &amp; Oliver Creek Rd.</p> <p>Mansion Rd. to Tuttle Ave</p> <p>Old Farms Rd. (115kV Underground trench-work)</p>	<p>shrubs were planted (9/18) in clusters to provide shading for Allen Brook 11/20/07</p> <p>Some large areas of exposed soil areas off Docker Dr. have minor grass growth however; most of the previously applied seed/hay appears to have washed away and turbid run-off was resulting. 11/6-11/20/07</p> <p>Crews were reclaiming portions of the pad sites within the orchard, during the inspection. 11/20/07</p> <p>Turbid water was noted flowing from exposed areas on the ROW into catch basins and off-site wetlands. Previously applied seed may have washed away in the run-off. 11/6-11/20/07</p>	<p>See erosion control section. Apply additional mulch with binders or erosion control mats as applicable to encourage stabilization at this time of year. 11/20/07</p> <p>Continue to provide restoration efforts and provide stabilization sufficient for the winter months. 11/20/07</p> <p>See erosion control section. Apply additional mulch with binders or erosion control mats as applicable to encourage stabilization at this time of year. 11/13-11/20/07</p>	<p>Needs additional attention</p> <p>Crews were reclaiming pads.</p> <p>Needs additional attention.</p>
<p>Dewatering</p>	<p>Some slurry resulting from past dewatering did migrate to the line of controls at the wetland off Carpenter Lane. 5/8-11/20/07</p> <p>Active dewatering was not observed along the project route. 11/20/07</p>	<p>See erosion control section. 5/8-11/20/07</p> <p>If dewatering is needed, provide adequate controls. 11/20/07</p>	<p>Needs evaluation and attention.</p> <p>NA at this time.</p>
<p>Blasting</p>	<p>No blasting is proposed. 11/20/07</p>	<p>None</p>	<p>NA</p>
<p>Spills, soils and material storage</p> <p>All Active Sites</p>	<p>Spill control materials are being brought to sites when work is performed. Small drip stains have been noted in several work areas along the ROW. 11/20/07</p> <p>Many active sites continue to have small</p>	<p>Always use spill control materials when working on equipment and during refueling. Replace as needed. Check equipment daily for leaks and repair as soon as possible. 11/20/07</p> <p>Always contain and control stockpiles as soon</p>	<p>Needs regular attention.</p> <p>Continue to monitor throughout</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
Liney Hall Ln.	stockpiles associated with drilling and stored equipment during the construction process. 11/20/07  The two excess concrete piles/ washouts were located within the wetlands have been removed according to the contractor. 11/20/07	as possible. 11/20/07  Concrete should never be washed out in or within 100 feet of wetlands. This includes concrete testing. 11/20/07	construction.  Concrete was removed according to contractor. (The area is locked/ inaccessible to inspection).
Pond Hill Road	Sediment from several sites is being brought to an upland location east off Pond Hill and stockpiled. Fiber rolls have been overwhelmed by the sediment and vehicle traffic. (noted 11/6) Soils continue to be removed from this site 11/20/07	Controls need to be reinforced if any amount of the stockpile is going to remain for an extended time. 11/20/07	Stockpile was being removed from the site as needed.
Additional Observations	None 11/20/07	None	

Next likely scheduled inspection:

Tuesday November 27, 2007

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.

Field Inspector: Matt Creighton, BSC Group

Reviewer: Diana Walden, BSC Group



**Carpenter Ln: Disturbed soils remains upgradient from wetlands. Reinforced controls are needed here.**



**Carpenter Ln: Deteriorating controls and sediment accumulation was noted at the wetland outlet. This area still receives turbid run-off during rain events.**



**Durham Rd: Crews were installing grounding wires.**



**Tamarack Swamp Rd: The silt fence remains in place but the sedimen that had been pushed beyond the original controls should be removed carefully.**





**Woodhouse Ave:** The disturbed area remains mulched and seeded. Minor grass growth was noted. Ensure the area is sufficiently stable for winter months.



**Pond Hill:** The soil is being removed from the stockpile on site as it is needed. Monitor controls and stabilize disturbed soils.



**Docker Dr:** View of the large disturbed area. Previously applied seed and mulch has washed away. Additional attention is needed here to stabilize the area for the winter months.



**Orchard off Mansion Rd:** Crews were reclaiming portions of the pad site.