

**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.**

**Beseck Switching Station Inspection**

**Date:** January 2, 2007

**Inspector:** Matthew Creighton

**Location:** Beseck Switching Station

**Rainfall:** Total of 1.29" rain recorded on 1/1/07. This was the total amount reported since the previous inspection. (as reported by NOAA 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>All traffic leaving the site is using stone entrance on east side. Carpenter Lane continues to have some sediment accumulation along the gutter. 12/12/06-1/2/07</b>	<b>Clean/sweep roadway regularly. Continue to maintain stormwater quality from the site. Gutters still need to be swept by hand. 12/12/06-12/26/06</b>	<b>Gutters still need attention.</b>
	<b>Stone access pad appeared clean but turbid run-off to the roadway and catch basins (CBs) was noted during this inspection, after a significant rain event. Haybales located at the corner of the entrance apparently do not filter or contain run-off effectively. Turbidity seems to increase with truck traffic for deliveries etc. 12/26/06-1/2/07</b>	<b>Continue to maintain stone construction entrance. Evaluate how to prevent all stormwater run-off from reaching Carpenter Lane. Monitor haybales and replace or reposition as needed to filter run-off. Evaluate additional containment methods. 11/20/06-1/2/07</b>	<b>Needs evaluation.</b>
	<b>Minor amounts of sediment were observed at the culvert under the ROW access road. All sediment appears well contained within the sediment trap. 1/2/07</b>	<b>This area will still require regular attention by all contractors (BSS and Segment 1A) to reduce sediment tracking. Maintain basin/ traps and haybales at the outlet when necessary. 1/2/07</b>	<b>Not Applicable (NA)</b>
	<b>Controls across the new</b>	<b>Install controls if feasible</b>	<b>NA</b>

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p><b>Access roads and adjacent roadways (continued)</b></p>	<p>access drive were removed but exposed soil remains upgradient of driveway. 12/19-1/2/07</p> <p>Catch basin liners appear to be working. Gutter buddies are in place on the northern side of Carpenter Lane as a dam at the drop inlets to force water through the controls. Some sediment was accumulating on the liner and is still in the gutters. 1/2/07</p> <p>Haybales were removed from the old Zolnik Driveway. 12/12-1/2/07</p>	<p>or add diversions as needed. Continue to monitor for run-off. 12/19-1/2/07</p> <p>Continue to monitor and maintain liners as needed. Sediment in the gutters along the roadway should be swept by hand as street sweepers cannot reach it adequately. 12/12/06-1/2/07</p> <p>Replace haybales across the driveway to slow stormwater. 12/12-1/2/07</p>	<p>Needs attention.</p> <p>Needs attention.</p>
<p><b>Foundation and site construction</b></p>	<p>Some grading continues. The majority of the site is at finished grade. 1/2/07</p> <p>Excavations for foundation work continue within the site, resulting in small soil stockpiles. Contractors are setting rebar, pouring concrete, and regrading soils. 1/2/07</p>	<p>Erosion controls may need to be adjusted as grading changes, especially at catch basins on site. 1/2/07</p> <p>Concrete washouts are being conducted within the excavations. Continue to monitor and control soil stockpiles at new excavations as needed. 1/2/07</p>	<p>NA</p> <p>NA</p>
<p><b>Erosion and sediment controls</b></p>	<p>Silt fence at site perimeter is secure and well-maintained. South and east sides are reinforced with bark mulch. 1/2/07</p> <p>Small amounts of sediment remains at the culvert in the riprap trap at the ROW access road; no sediment was noted leaving this area. 1/2/07</p> <p>Haybales have been removed from the newly graded access drive. 12/19/06-1/2/07</p>	<p>Continue to inspect and maintain silt fence throughout site and repair as needed. 1/2/07</p> <p>Segment 1A contractors also maintain controls here at the eastern wetland. Continue to monitor. 1/2/07</p> <p>Monitor and add controls as necessary. Exposed soil remains upgradient. 12/19/06-1/2/07</p>	<p>NA</p> <p>NA</p> <p>Continue to monitor, and add controls if necessary.</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p><b>Erosion and sediment controls (continued)</b></p>	<p><b>Filter fabric and haybales remain in place over and around the drain inlets in the permanent detention basins. However, stormwater has been dewatered from new excavations through sand bags and into the storm drain system. The drain system is overloaded, and deteriorated haybales at the drain outlet need to be replaced. 1/2/07</b></p> <p><b>The storm water outlet pipe at the wetland across Carpenter Lane still had turbid water flowing beyond the degraded haybales and into the wetland. Haybales were not effectively filtering the stormwater. Dewatering onsite was halted during the inspection; more controls are needed. 12/26/06-1/2/07</b></p> <p><b>Most exposed soil surfaces on site have been graded and hydroseeded. Erosion control mats are also in place on steeper slopes. 1/2/07</b></p>	<p><b>Implement additional/ alternative measures and evaluate during rain events to determine whether turbidity is being adequately controlled. Dewatering discharge may also require additional filtration and containment prior to reaching the basin. See dewatering section for more information. 1/2/07</b></p> <p><b>Haybales should be replaced and repositioned. Stormwater still needs to be better filtered and contained before leaving the site. Stabilize exposed soils and add controls as necessary. Always closely monitor dewatering activities. Consider allowing pumped water to settle completely before reaching outlet, or using a vac truck to removed stormwater from the foundation pits and the CBs. 1/2/07</b></p> <p><b>Continue to temporarily stabilize any remaining areas as soon as possible. Monitor areas for erosion and run-off. 1/2/07</b></p>	<p><b>Needs evaluation/ alternatives to filter and control water. Water is being filtered through sand bags.</b></p> <p><b>Needs immediate attention and evaluation.</b></p> <p><b>NA</b></p>
<p><b>Inland Wetland and Watercourse encroachment and mitigation</b></p>	<p><b>The wetland and outlet across Carpenter Lane again contained turbid water/suspended sediment after a period of no incidents. 12/26/06-1/2/07</b></p>	<p><b>Several areas have sediment accumulation. Sediment should be removed from the outlet and adjacent areas when water levels recede 12/26/06- 1/2/07. All sources of sediment in stormwater from the site should be identified and controlled. 12/5/06-1/2/07</b></p>	<p><b>Needs evaluation.</b></p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
	Wetlands on east side of site were clean and well protected. 1/2/07	Continue to monitor. This area is also covered by the Segment 1a inspections. 1/2/07	NA
State species of concern, threatened and endangered species.	According to the D&M plan, state-listed species are not located in this work area.	None. 1/2/07	NA
Vegetative clearing or stabilization	<p>Most exposed soil surfaces around the site have been hydroseeded and erosion control mats are in place on steep slopes. 1/2/07</p> <p>Any areas that will remain unworked for several weeks should be temporarily stabilized. Some areas were at final grade and crushed stone base was installed at work trailer locations. 1/2/07</p>	<p>Place hay mulch (or similar) for temporary stabilization, especially on detention basin slopes. 1/2/07</p> <p>Continue placing seed, straw, mulch, or stone as a temporary or permanent stabilization measure to reduce areas of exposed soil where work is not actively occurring or not expected to occur for more than 14 days (including soil stockpiles). 1/2/07</p>	<p>NA</p> <p>NA</p>
Dewatering	Dewatering was needed to remove rainwater from new foundation pits. Turbid water was pumped through sand bags for filtration and directly into the eastern detention basin's CB. The controls at the outlet across Carpenter Lane are overwhelmed with turbid stormwater and cannot handle the increased volume of water. 1/2/07 Pumping was halted during the last inspection to allow water in the basin to subside and better controls (sand bags) were installed. This may be one of the major sources of sediment to the wetland across Carpenter Lane. 12/26/06-1/2/07	<p>When dewatering is required, pumping must be monitored to avoid formation of gullies, overwhelming controls, or increasing sediment in the basins. Additional or alternative controls are needed to prevent turbid water from entering the riser pipes and reaching the wetland. Consider alternatives for containing and filtering dewatering discharge before it reaches the basin (i.e. using a vacuum truck to remove water from the excavations and CB). 12/26/06- 1/2/07</p> <p>Allow water in detention basins to subside before it reaches outlet. 1/2/07</p>	<p>Sand bags were added to filter stormwater.</p> <p>Needs additional attention and evaluation.</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
<b>Dewatering (continued)</b>	<p><b>Small eroded gullies were formed on the basin slopes as a result of dewatering. 11/20/06-1/2/07</b></p> <p><b>Muddy River, located a distance down gradient from the wetland across Carpenter Lane, is also being monitored. At this time no turbidity from the site appears to have reached Muddy River. 1/2/07</b></p>	<p><b>Regrade and basin slopes. Continue pumping water against haybales, sand bags, or stone to slow water velocity. 11/20/06-1/2/07</b></p> <p><b>Continue to monitor and evaluate Muddy River during rain events and dewatering activities. Reinforce and improve controls on site as needed. 1/2/07</b></p>	<p><b>Needs attention when feasible.</b></p> <p><b>NA</b></p>
<b>Blasting</b>	<b>All blasting was complete as of 9/7/06.</b>	<b>None. 1/2/07</b>	<b>NA</b>
<b>Spills, soils and material storage</b>	<p><b>All remaining soil on site will be used as fill in construction. 1/2/07</b></p> <p><b>A few small stockpiles resulted from the foundation excavations. 11/20/06-1/2/07</b></p> <p><b>Spill cleanup materials were available on site and are being used and restocked as needed. 1/2/07</b></p>	<p><b>Soils appear to be handled appropriately. 1/2/07</b></p> <p><b>Install controls for the stockpiles where needed. 11/20/06-1/2/07</b></p> <p><b>Always use spill control materials when working on equipment and during refueling. 1/2/07</b></p>	<p><b>NA</b></p> <p><b>NA</b></p> <p><b>NA</b></p>
<b>Additional Observations</b>	<b>None. 1/2/07</b>	<b>None. 1/2/07</b>	<b>NA</b>

**Next likely scheduled inspection:**

**Tuesday January 9, 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:**

Matthew Creighton

**Reviewer:**

Diana Walden, Stephen Herzog



**New entrance off Carpenter Lane is at final grade; erosion controls have been removed. Monitor carefully for run-off.**



**View of Carpenter Lane and retaining walls. Sediment accumulation was noted in the gutters. Turbid runoff was observed flowing past the controls at the site entrance.**



**Sediment along the gutters should be removed by hand as street sweepers are not adequate. Accumulated sediment should also be removed from CB inlet protection.**



**Additional/alternative controls are still recommended for detention basin inlets. Consider additional filtration/ containment for dewatering discharge. Sandbags were also being used.**



**Replace haybales across the old Zolnik driveway. Adjacent areas have been graded and seeded.**



**View of the culvert under the new access road. Minor amount of sediment was noted but appears contained within the trap. Beseck and Seg. 1A contractors are jointly sharing the access road.**



**Storm drain outlet across Carpenter Lane again had turbid water flowing through the outlet pipe and past the degraded haybales into the wetland. New haybales and alternative controls on-site are needed.**



**The wetlands across Carpenter Lane again contain turbid run-off for a second week. Sediment removal may be necessary once the sediment settles out, and the water level subsides.**