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: **April 24, 2007**

Inspector: **Matthew Creighton**

Location: **Beseck Switching Station**

Rainfall: **No precipitation was recorded in the week prior to inspection (NOAA data at Meriden, CT).**

Areas of Inspection	Observation	Recommended Action	Corrected Action
Access roads and adjacent roadways	All traffic entering and exiting the site is using the site exit on the east side. The site is dry and no water was observed leaving the entrance or exit. 4/24/07	Continue to monitor and evaluate during larger storm events. Adjust controls as needed. 4/24/07	No issues noted but needs additional stabilization or containment in heavy rains.
	Haybales, clean stone and check dams remain along the western site entrance. It was well controlled and was being used for temporary parking of personal vehicles. 4/24/07	Continue to monitor and evaluate during larger storm events. It is currently well controlled. 4/24/07	Not Applicable (NA)
	The stone access east of Beseck remains in place to reduce tracking to the main pad. 4/24/07	Continue to maintain and work out schedule with 1A contractors to share responsibility. 4/24/07	NA
	The sediment trap at the culvert under the ROW access road is dry and contains some filtered sediment. Haybales are in place at the inlet and outlet. 4/24/07	This control works well for smaller storms but was overwhelmed by the heavy rain last week. For future rain events, slow and filter water within the drainage ditch before it flows into the basin. 4/24/07	Needs additional controls in anticipation of larger storm events
	Gutters along Carpenter Lane have recently been	Clean/sweep roadway regularly, including the	Gutters have recently been cleaned.

Areas of Inspection	Observation	Recommended Action	Corrected Action
Access roads and adjacent roadways (continued)	**cleaned/swept, removing the sediment accumulation that had been noted for a number of weeks. 4/24/07**	**gutters by hand if necessary. 4/24/07**	
	CB liners and gutter buddies (filter socks), along Carpenter Lane, have been replaced, including the one removed due to ponding issues. 4/24/07	**Clean and maintain liners on a regular basis. 4/24/07**	**Silt liners and gutter buddies were replaced.**
	The CB within the entrance drive cannot be sealed yet so a drainage ditch remains in place prevent turbid water from flowing into the storm-water system. 4/24/07	**CB will be sealed during final grading. Continue to monitor existing controls. 4/24/07**	**NA**
Foundation and site construction	**Minor grading continues as needed. The majority of the site is at finished grade. 4/24/07**	**Erosion controls may need to be adjusted as grading changes, especially at catch basins on site. 4/24/07**	**NA**
	Excavations for foundation work continue within the site, resulting in small soil stockpiles. Contractors are setting rebar, pouring concrete, regrading soils, and installing frames and steel structures. 4/24/07	**Concrete washouts are being conducted within the excavations. Continue to monitor and control soil stockpiles at new excavations as needed. 4/24/07**	**NA**
Erosion and sediment controls	**Perimeter silt fence along the east side of the site is secure and well-maintained. 4/24/07**	**Continue to inspect and maintain silt fence throughout site and repair as needed. 4/24/07**	**NA**
	The area adjacent to the silt fence along Carpenter Ln is stable and no erosion was noted. 4/24/07	**Provide any necessary final restoration efforts and remove the erosion controls. 4/24/07**	**NA.**
	Filter fabric and numerous haybales remain in place over and around the drain inlets in	**Continue to monitor and replace haybales as needed within the detention basins.**	**Basins were dry this week.**

Areas of Inspection	Observation	Recommended Action	Corrected Action
	the permanent detention basins. The basins were dry this week with some sediment accumulation from last week's stormwater volume. 4/24/07	**Removed sediment from controls to maintain effectiveness as needed. 4/24/07**	
	The storm water outlet pipe at the wetland across Carpenter Lane has several layers of haybales in place to help filter turbid water. Water within the outlet and flowing into the wetlands was clear. In general, sediment from the site is very fine and difficult to filter but efforts continue to be made onsite to reduce turbid run-off. 4/24/07	**Haybales should be monitored and replaced as needed at the storm drain outlet. Stormwater should continue to be contained and filtered before leaving the site to the extent possible. Continue addressing stormwater issues at the source. Good efforts were made on site to reduce run-off. Stone check dams along Carpenter Ln. should be considered to help reduce turbid run-off from entering the CBs. 4/24/07**	**Sediment in the water at the storm drain outlet and within the wetland had settled out.**
Inland Wetland and Watercourse encroachment and mitigation	**Clear water was observed leaving the outlet across Carpenter Lane and entering wetlands following last weeks heavy rains and turbidity. 4/24/07**	**Several areas in the wetland have sediment accumulation. Sediment should be removed from the outlet and adjacent areas when water levels recede 12/26/06- 4/24/07. It will be evaluated whether the accumulation justifies the minor disturbance required to remove it. 1/23-4/24/07**	**Continue to evaluate and add controls as needed.**
	The drainage ditch (north side of the site) and sediment trap under the ROW access was dry, and turbid water was no longer flowing to the wetlands to the east. 4/24/07	**Add controls along the drainage ditch to slow and filter run-off before leaving the site. 4/24/07**	**The trap and drainage ditch were dry.**
	Additional work in the wetlands to the south and east of Beseck are covered in other project reports.	**See Segment 1a or 2a inspection reports for more details. 4/24/07**	**Not jurisdictional to this D&M plan.**

Areas of Inspection	Observation	Recommended Action	Corrected Action
	4/24/07		
State species of concern, threatened and endangered species.	**According to the D&M plan, state-listed species are not located in this work area.** **Several different species of frogs, turtles, and salamanders have been noted in wetlands south of Carpenter Ln, this spring and last year. 4/24/07**	**None. 4/17/07** **Although these species were not state-listed, it indicates good habitat. Continue to make good efforts to reduce impacts to these wetlands to the extent possible.. 4/24/07**	**NA** **NA**
Vegetative clearing or stabilization	**Most exposed soil surfaces around the site, which are not currently active, were hydroseeded (including a tackifier) last winter to promote stabilization. Patchy grass growth is beginning to establish. This includes the slopes of the detention basins. 4/24/07** **Erosion control mats are in place on steep slopes. Some areas were at final grade and crushed stone base was installed at work trailer locations. 4/24/07**	**Continue to place hay mulch (or similar) for temporary stabilization, and closely monitor detention basin slopes. Monitor site closely, especially especially during rain events. Regrade any erosion (gullies) and reseed areas as needed. 4/24/07** **Continue 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). 4/24/07**	**Patchy grass growth continues.** **NA**
Dewatering (*As of 1/12/07 contractors stated: the detention ponds will be monitored during rain events and spring thaw to ensure that neither pond reaches capacity. Water will be pumped to the larger pond and then to the frac tank if any component of the system is reaching capacity.)*	**No dewatering discharge from the detention basins or foundation pits was observed during this inspection. 4/24/07** **When dewatering is required turbid water is pumped into two frac tanks on site in order to settle. Clean water is released to the controlled CBs within the detention basins onsite. 4/24/07** **Muddy River, located a**	**When dewatering is required, pumping must be monitored to avoid, overwhelming controls, or increasing sediment in the basins. Clean water from the frac tanks can be pumped directly into the controlled CBs in the detention basins as long as water is released slowly. This will prevent overwhelming controls and forcing sediment, from the stormwater system into the wetlands at the outlet. 4/24/07** **Continue to monitor and**	**Continue to evaluate controls for effectiveness. The activities were well-controlled at this time.** **NA**

Areas of Inspection	Observation	Recommended Action	Corrected Action
	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. 4/24/07	**evaluate Muddy River during rain events and dewatering activities. Reinforce and improve controls on site as needed. 4/24/07**	
Blasting	**All blasting was complete as of 9/7/06.**	**None. 4/24/07**	**NA**
Spills, soils and material storage	**All remaining soil on site will be used as fill in construction activities. 4/24/07**	**Soils appear to be handled appropriately. 4/24/07**	**NA**
	A few small stockpiles resulting from the foundation excavations remain. 11/20/06-4/24/07	**Install controls for the stockpiles where/if needed. 11/20/06-4/24/07**	**NA**
	Spill cleanup materials were available on site and are being used and restocked as needed. 4/24/07	**Always use spill control materials when working on equipment and during refueling. 4/24/07**	**NA**
Additional Observations	**A line of haybales is maintained across the old ROW access to prevent unauthorized use (eg ATVs) and potential run-off. 4/24/07**	**Monitor haybales and replace as needed. 4/24/07**	**NA**

Next likely scheduled inspection: **Tuesday May 1, 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, BSC Group*

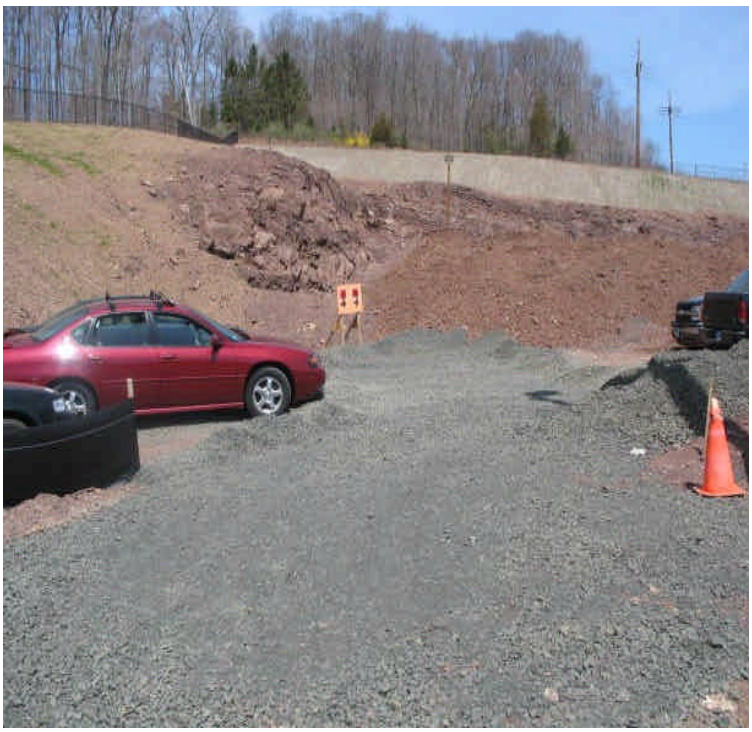
Reviewer: *Diana Walden, BSC Group*

Site entrance off Carpenter Lane is well controlled; the area is being used for temporary parking of personal vehicles.

Carpenter Lane was recently swept and gutter buddies were cleaned and replaced in the catch basin.

View of the entire site from the southeast corner looking north.

Haybales and controls remain in place at the inlet of the detention basin. Sediment from the stormwater run-off has settled in the basin.



Stone and stone check dams remain in place along the site entrance.

View of the culvert and sediment trap under the access road to the ROW. This control works well for smaller storms but needs reinforcement during the larger rain events.

Storm drain outlet across Carpenter Lane has clear water flowing through the haybales.

Clear water was observed leaving the haybales and entering the wetlands. Evaluate whether the amount of sediment accumulation justifie the minor disturbance needed to remove it, once the water subsides.