

**Docket No. 217 – Development and Management Plan Inspection**

Northeast Utilities Service Company Certificate of Environmental Compatibility and Public Need for the construction of a 345-kV electric transmission line and reconstruction of an existing 115-kV electric transmission line between Connecticut Light and Power Company’s Plumtree Substation in Bethel, through the towns of Redding, Weston, and Wilton, and to the Norwalk Substation in Norwalk, Connecticut.

**Date:** October 5, 2005

**Inspector:** Diana Walden

**Location:** 345kV Underground Route

**Storm/**

**Rain Event:** The area received only traces of precipitation since the last inspection as reported by NOAA.

Areas of Inspection	Observation	Recommended Action
Vault Openings and Trench Construction	<ul style="list-style-type: none"> <li>- Trenching, pipe installation, and sawcutting operations continue in several locations along Rt. 7 in Wilton during the night. A vault was installed at the intersection of Rts. 107 and 7. 10/5/05</li> <li>- Trenching and pipe installation, continued along Rt. 107 during the day on Umpawaug Road which is closed to through traffic. Several vaults had also been installed along here 10/5/05</li> <li>-The jack and bore near Allens Meadows Park continues. The conduit has been installed under the stream and the pipe has been placed through but the work to move up gradient is ongoing. 10/5/05</li> <li>- Equipment is in place off School Rd. to begin the Horizontal Direction Drill under the Norwalk River. 10/5/05</li> </ul>	<ul style="list-style-type: none"> <li>-The majority of the work has been in the roadway and seems contained for the most part but there are a few issues that require attention. Continue to provide attention to any off- road areas that need restoration. Continue providing good “house-keeping” along the roadways. 10/5/05</li> <li>-The settling basin is once again turbid. Turbidity issues were still noted in the stream. A few minor maintenance issues were also noted. 10/5/05</li> <li>- Controls will be installed here. 10/5/05</li> </ul>
Erosion and Sediment Controls (includes inspection	<ul style="list-style-type: none"> <li>- The silt fence located at the edge of the original storage yard near the Rt. 107 and 7</li> </ul>	<ul style="list-style-type: none"> <li>-None at this time. 10/5/05</li> </ul>

<b>Areas of Inspection</b>	<b>Observation</b>	<b>Recommended Action</b>
within 24 hours of a storm event)	has been repaired as requested. 10/5/05	

Areas of Inspection	Observation	Recommended Action
<p>Erosion and Sediment Controls (continued)</p> <p><b>Route 7</b></p>	<ul style="list-style-type: none"> <li>- Attempt to control all catch basins as well as outlet points off the road when work is in the vicinity. 10/5/05</li>   <li>- Silt fence was pushed down at the base of slope near #475 Rt 7 at Olmstead Hill Rd. Several small soil piles were noted here. 10/5/05</li>   <li>-The jack and bore site is still improved compared to two weeks ago but has degraded somewhat since last week. The settling basin is turbid once again and some of the turbidity continues to reach the stream despite of the many controls. 10/5/05</li>   <li>-Several small spots of silt fence needed to be toed in and another trickle of water from the basin needed to be filtered. 10/5/05</li>   <li>-Most of the silt fence on the northern side of the stream is in place but a portion still needs to be toed in. 9/29-10/5/05</li>   <li>- The backfill stockpile was well enclosed with silt fence. 10/5/05</li>   <li>- The water clarity in the stream is still better than two weeks ago but is somewhat turbid again. Sediment deltas were still noted right at the outlet. 10/5/05</li>   <li>-The preparation for the HDD at School Rd. led to an area of disturbed soil adjacent to the stone in place to support the equipment. 10/5/05</li> </ul>	<ul style="list-style-type: none"> <li>- Make sure that haybales are placed in the catch basins during the nightwork and continue to maintain them. Filter fabric is also an accepted measure if haybales are difficult to maintain. 10/5/05</li> <li>-Repair fence and either remove or enclose soil piles here. 10/5/05</li>   <li>-Continue to find solutions to better filter the water and finish the work in this area as quickly as possible.10/5/05</li>   <li>- Contractors were preparing to toe in the fence at this time and were placing haybales downgradient at the flow. 10/5/05</li>   <li>-Contractors were informed of the area to be repaired. 10/5/05</li>   <li>- None at this time. 10/5/05</li>   <li>- BSC will determine if these areas are best cleared by hand/shovel or if careful use of a vac truck can occur. 10/5/05</li>   <li>-Contractors will be installing silt fence now that the size of the needed work area is identified. 10/5/05</li> </ul>

Areas of Inspection	Observation	Recommended Action
<p>Erosion and Sediment Controls (continued)</p> <p><b>Rt. 107 Daywork</b></p>	<ul style="list-style-type: none"> <li>- BSC did note haybales on catch basins along Umpawaug Rd. 10/5/05</li> <li>- Soil from the active trench work is allowed to be stockpiled at Umpawaug Rd. If the soil is piled any longer than the day or if conditions are rainy. Silt fence or haybales will be needed as a check dam. 10/5/05</li> <li>- A vault installation near #134 Umpawaug Rd. had bare soil remaining with a small stockpile. Another area near Fox Run Rd. was being restored. 10/5/05</li> <li>-An area near #124 Rt. 107 was disturbed several weeks ago off a side road or driveway by equipment parking. 9/29-10/5/05</li> <li>- The area just north of Georgetown Deli had been mulched and well restored up to a point but other spots remained bare and silt fence had been pulled here prematurely. 10/5/05</li> </ul>	<ul style="list-style-type: none"> <li>- In general, catch basins should also be cleaned regularly and roadways swept of sediment attributed to the project. Contain all muds and monitor where water is flowing even when catch basins are not the receivers. 10/5/05</li> <li>-Continue to monitor and provide controls in these conditions. 10/5/05</li> <li>- The area should be stabilized and restored and the soil controlled as it is immediately upgradient from a swale. 10/5/05</li> <li>- Either continue restoration measures or install silt fence in the bare soil areas. The area is along a swale/culvert so it is important to stabilize. 10/5/05</li> </ul>
<p>Adjacent Wetlands and Waterways</p>	<ul style="list-style-type: none"> <li>-At the jack and bore near Allens Meadow Park, the water clarity of the stream was still turbid despite the controls here. Deltas of sediment were observed just at the outlet of the basin. 10/5/05</li> </ul>	<ul style="list-style-type: none"> <li>- BSC can continue to help delineate areas of sediment that should be removed by hand. Hand shoveling is likely the best solution but we will look into a vac truck option. 10/5/05</li> </ul>
<p>Staging, Storage, and Parking Areas</p>	<ul style="list-style-type: none"> <li>- The silt fence at the equipment storage yard located on property off Rt. 7, south of the Rt 107 and 7 has been restored. 10/5/05</li> </ul>	<ul style="list-style-type: none"> <li>- None at this time. 10/5/05</li> <li>- In general, materials should be placed appropriately in storage areas or immediately adjacent to work each night. No potentially spillable materials should be left behind or out overnight. 10/5/05</li> </ul>

Areas of Inspection	Observation	Recommended Action
	<p>-At the School Rd. storage area, the soil surface is disturbed adjacent to the set up for the HDD. Silt fence will be needed here. 10/5/05</p> <p>-The backfill pile stored north of the jack and bore has good silt fence installation. 10/5/05</p>	<p>-Install fence as soon as possible now that the size of the work area is known. 10/5/05</p> <p>- Keep storage areas contained as much as possible, avoiding disturbance to vegetation that wasn't already cleared. The areas do not have any clear limit of work boundaries and may benefit from silt fence installation. 9/15-10/5/05</p>
Soils	<p>- Most soils along the project route are being trucked to a waste facility in Danbury for storage and eventual disposal. However, any soils from the work in Redding which meet the RSR levels are being used in the landfill as daily cover.</p> <p>- Backfill soils are allowed to be stored along Umpawaug Rd. but only for the day. If stored longer, silt fence must be installed. 10/5/05</p>	<p>- Soils appear to be handled appropriately. 10/5/05</p> <p>- The DPW may request some of the soil for roadside work if soil tests results are appropriate. 10/5/05</p>
State species of concern, threatened and endangered species	<p>- No species of concern are located in this area of construction.</p>	<p>- N/A</p>
Vegetative clearing limits (including trees to save or danger trees noted)	<p>-Some bare soil remains along Georgetown Deli although restoration measures were noted up to a point. 10/5/05</p> <p>-Areas of bare soil were present along Umpawaug Rd. near #134, #74 and near Fox Run Rd. 10/5/05</p>	<p>-Complete restoration of the area or replace the silt fence which was pulled. 10/5/05</p> <p>- The Fox Run Rd. site was actively being restored. Attend to the other areas in the appropriate time frames. 10/5/05</p>
Dewatering	<p>-Dewatering that occurs within the trench work along Rt. 107 and Rt. 7 is being directed to a frac tank truck.</p> <p>- Dewatering continues from both the jacking and receiving pits at the jack and bore. At the time of inspection, there</p>	<p>- It could be determined whether the watershed basin is stressed due to removal of the groundwater.</p> <p>-Continue to figure out ways to reduce turbidity and complete work at this area as soon as possible. 10/5/05</p>

Areas of Inspection	Observation	Recommended Action
	was considerable volume of water going to the basin and it was turbid once again. 10/5/05	
Blasting	- No blasting is occurring on site at this time.	- None at this time.
Spills and Material Storage	- In general, make sure that glues, asphalt components and other materials are stored well overnight and not left out along the roadway. Materials had been stored well at this inspection. 10/5/05	<ul style="list-style-type: none"> <li>- The contractors should remain vigilant about securing and handling fuel containers.</li> <li>- Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site.</li> <li>- Check equipment status on a regular basis and keep spill kits on hand.</li> <li>- Report spills immediately, even if they are being controlled.</li> </ul>
Additional Observations	- Adjacent work on the roadway has resulted in some observed damage to cable guardrails on Rt. 107. 9/29-10/5/05	

**Next likely scheduled inspection:**

Thursday, October 13, 2005

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.

**Inspector's Signature:** Diana Walden



**345kV (Route 107 Daywork):** The photo on the left shows the active trenching on Umpawaug Road with soil from the day's excavation stockpiled. If soil is stockpiled longer than the day, silt fence will be needed. The photo on the right shows a stockpile area left over on Umpawaug Rd. The area should be restored if work here is done. (10/5/05)



**345kV (Daywork Route 107):** View just north of Georgetown Deli. Restoration measures have been implemented up to a point but should continue. Silt fence was pulled prematurely here. (10/5/05)



**345kV (Route 7): Both photos show a spot near #475 Rt. 7 by Olmstead Hill Rd. where the silt fence has come down and some small soil piles were left behind. 10/5/05**



**Photo on the left shows the backfill pile at the Wilton HS jack and bore with silt fence well installed. Photo on the right shows the receiving pit side of the work. (10/5/05)**



Photo on the left shows how the settling basin which once again has become turbid. The photo on the right shows all of the controls in place with some slightly turbid water still getting through. (10/5/05)



345kV Horizontal Directional Drill: Equipment is in place at School Rd. to begin the HDD under the Norwalk River. (10/5/05)



In preparation for the drill, the adjacent area was disturbed and will require silt fence. Contractors were scheduled to install the fence once the area of disturbance needed was identified. (10/5/05)



View of the Norwalk River in the vicinity of the HDD. The river meanders several times within the drill section. (10/5/05)