

**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:** September 21, 2005

**Inspector:** Diana Walden and Lee Curtis

**Location:** 345kV Underground Route

**Storm/**

**Rain Event:** The area received a rain event with localized downpours between 0.72” and up to 1.02” over 9/16-9/17 as reported by NOAA.

Areas of Inspection	Observation	Recommended Action
Vault Openings and Trench Construction	<p>- Trenching, pipe installation, and sawcutting operations continue in several locations along Rt. 7 in Wilton during the night. 9/21/05</p> <p>- Trenching, pipe installation, and saw cutting continued along Rt. 107 during the day in the vicinity of Umpawaug Road and near the Georgetown Deli. 9/21/05</p> <p>-Active work for a jack and bore of a stream near Allens Meadows Park is ongoing. The jacking pit and receiving pit are now both operational and the pipe is being jacked through. Although efforts were made here last week, the situation had deteriorated by the time of the next inspection. More permanent fixes were made immediately following. 9/21/05</p>	<p>-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. See additional sections for specific recommendations. There is also a need for good “housekeeping” along the roadways. 9/15-9/21/05</p> <p>- Following the previous efforts, water in the stream was once again turbid and sedimentation was noted. Hoses were not placed correctly and erosion controls were not effective. Major work was done the day of and following the inspection and the situation has significantly improved. Efforts need to continue here for maintenance. 9/21/05</p>
Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)	<p>- The silt fence located at the edge of the original storage yard near the Rt. 107 and 7 intersection is still down completely, originally due to</p>	<p>-The fence has not been repaired but should be as a limit of work. Wetlands are immediately beyond the yard. This issue has been on the</p>

<b>Areas of Inspection</b>	<b>Observation</b>	<b>Recommended Action</b>
	separate landowner activities. 8/19-9/21/05	reports for a number of weeks now. 8/19-9/21/05

Areas of Inspection	Observation	Recommended Action
<p>Erosion and Sediment Controls (continued)</p> <p><b>Route 7</b></p>	<p>- Attempt to control all catch basins as well as outlet points off the road when work is in the vicinity. 9/21/05</p> <p>-The area at the intersection of Rt. 107 and 7 where the stockpiles were has good grass growth following restoration. 9/21/05</p> <p>- A number of additional locations along Rt. 7 could use restoration/ seeding as they have been noted with bare soil for a few weeks. This includes the field area across from the Zion church, and areas near the Girl Scout council building. 9/21/05</p> <p>-Following the repairs made last week, the jack and bore site had a number of issues again this week. The settling basin had a large volume of water and it was seeping through to the stream creating turbidity and sedimentation. Erosion controls at the stone outlet pad were in disrepair and not filtering the seepage very well. 9/21/05</p> <p>- Water from the jacking pits remains very clear from the established well points but the settling basin itself is creating additional turbidity. The receiving pit discharge is expected to become clearer now that well points were installed but it was still turbid. 9/21/05</p> <p>- A clear water hose was discharging directly to the stream which should never be done. It is acceptable to place the extremely clear discharge water on the clean stone pad rather than into the settling basin. 9/21/05</p>	<p>- 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. 9/21/05</p> <p>- Continue to restore the off-roadway and lawn areas with mulch and seed in the appropriate amount of time. 9/21/05</p> <p>- When contractors were notified of the issues, they made immediate efforts that day and the next to make more permanent repairs to the situation.</p> <p>-The basin was drained and reinforced with stone inside the basin and erosion controls were restored around the outlet. 9/21-22/05</p> <p>- The clear discharge water hose was pulled back from the stream and placed directly on the gravel pad to avoid picking up turbidity from the basin. The water in the basin was noticeably clearer following the other repairs. 9/21-22/05</p>

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>- A turbid water hose was noted under the silt fence and discharging to the vegetation at the edge of the stream. 9/21/05</li> <li>- Several hoses were snaked under the silt fence and into the basin which undermines the purpose of the silt fence.</li> <li>- Sediment continued to build up along the stream and it will be necessary to begin carefully removing it by hand/shovel. 9/21/05</li> <li>- Catch basins are still not being protected consistently on this portion of the work. BSC did not note any protection measures on catch basins in this area during this inspection. 9/21/05</li> <li>- An area of silt fence in the work area just off Rt. 107 on Umpawaug Rd. was still down due to placement of materials and equipment. 9/7-9/21/05</li> <li>- In a few locations north of the Georgetown Deli, some materials were left over the guardrail even though they were several hundred feet from work. This included open containers of potentially “spillable” materials i.e. asphalt emulsion. 9/21/05</li> <li>- A section of silt fence was down along the work near the Georgetown Deli where the side of the road is being used as a work area. 9/21/05</li> <li>-The machinery was moved from the edge of the woods noted several weeks ago but</li> </ul>	<ul style="list-style-type: none"> <li>- The hose was immediately pulled back and extended so it reached the basin appropriately. 9/21/05</li> <li>- The hoses were pulled out from under the fence and placed over it and the fence was dug back in. 9/21/05</li> <li>- Some removal of sediment has occurred but BSC will work with the contractors to delineate the rest. 9/21/05</li> <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. 9/21/05</li> <li>- The fence here should be restored. 9/21/05</li> <li>- Good “housekeeping” appears to be necessary in these locations. Materials should be placed in storage areas and contained with the work. 9/15-9/21/05</li> <li>- Repair the silt fence as needed. 9/21/05</li> <li>- Either mulch and seed the disturbed soil or place silt fence up at this location. (This is at a small side street north</li> </ul>

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	the soil was ripped up here. 9/15-9/21/05	of the Georgetown Deli work-see photo). 9/15-9/21/05
Adjacent Wetlands and Waterways	<p>-At the jack and bore near Allens Meadow Park, sediment has continued accumulating at the edge of the spillway at the stream's edge as well as near the bridge crossing at the roadway. The additional issues addressed previously in the report had also led to turbidity in the stream. 9/21/05</p>	<p>- The amount of sediment accumulation is enough that it should begin to be addressed more immediately and carefully removed by hand/shovel. BSC can help delineate the areas. 9/21/05</p> <p>- The improvements made here have already begun to reduce the turbidity issues. 9/21/05</p>
Staging, Storage, and Parking Areas	<p>- The silt fence at the equipment storage yard located on property off Rt. 7, south of the Rt 107 and 7 intersection has been completely pushed over by separate landowner activities. 8/19-9/21/05</p> <p>- The Georgetown work area could use improvement of storage methods as materials were placed over the guardrail and not always immediately adjacent to the work. 9/15-9/21/05</p> <p>-At the School Rd. storage area, the soil surface is disturbed where the stockpiles had been. If bore staging work is not scheduled here soon, it should be temporarily stabilized. 9/1-9/21/05</p> <p>-Several storage areas along Rt. 7 including the Wilton Racquet Club and just north of the jack and bore have materials into the brush line. 9/15-9/21/05</p>	<p>- The fence is not yet repaired but should be as a limit of work. Wetlands are located immediately adjacent. This has been on the reports for several weeks now. 8/19-9/21/05</p> <p>- 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. 9/15-9/21/05</p> <p>- Consider temporary restoration measures here if the need for staging is not scheduled in the near future. 9/1-9/21/05</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. 9/15-9/21/05</p>

Areas of Inspection	Observation	Recommended Action
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>- Soils appear to be handled appropriately. 9/21/05</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>-The area near the rt. 107 and 7 intersection where the stockpile was removed has good grass growth. 9/21/05</p> <p>- Continue restoration efforts on all areas off the roadway where soil has been disturbed, including near the School Rd. storage if the staging is not scheduled soon and near Zion Church within the set time limits. A number of locations have been noted for several weeks. 9/15-9/21/05</p> <p>-Some clearing was done along the roadway near the Georgetown Deli as a work area. This area should also be restored when work is completed here. 9/21/05</p>	<p>-None at this time. 9/21/05</p> <p>- According to the D&amp;M plan, areas that are disturbed but will not be worked in for over 21 days should be temporarily stabilized/reseeded after 7-14 days. Restoration crews should be attending these areas prior to the deadline.</p> <p>- Maintain silt fence here until the area is restored. 9/21/05</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 was considerable volume of water going to the basin. 9/21/05</p>	<p>- It could be determined whether the watershed basin is stressed due to removal of the groundwater.</p> <p>-Turbidity issues were noted in the stream again this week but efforts continue to be made. Do not allow unfiltered water to discharge directly to wetlands, streams or catch basins. 9/21/05</p>
Blasting	<p>- No blasting is occurring on site at this time.</p>	<p>- None at this time.</p>

Areas of Inspection	Observation	Recommended Action
Spills and Material Storage	<p>- A leak of hydraulic fluid was noted at the jack and bore. The truck had been repaired earlier in the day and leftover fluid dripped off the frame creating a sheen on a puddle. It was soaked up with absorbent pads and pellets and the soil was disposed of. DEP was notified but they</p>	<p>- The contractors should remain vigilant about securing and handling fuel containers.            - Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site.            - Check equipment status on a regular basis and keep spill kits on hand.</p>
Spills and Material Storage	<p>determined the spill was too small to be reported. 9/21/05</p> <p>- Make sure that glues, asphalt components and other materials are stored well overnight and not left out along the roadway. Two open containers, one of asphalt emulsion were noted along the roadway and a few hundred feet away from active work. 9/21/05</p>	<p>- Report spills immediately, even if they are being controlled.</p>
Additional Observations		

**Next likely scheduled inspection:** Thursday, September 29, 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.

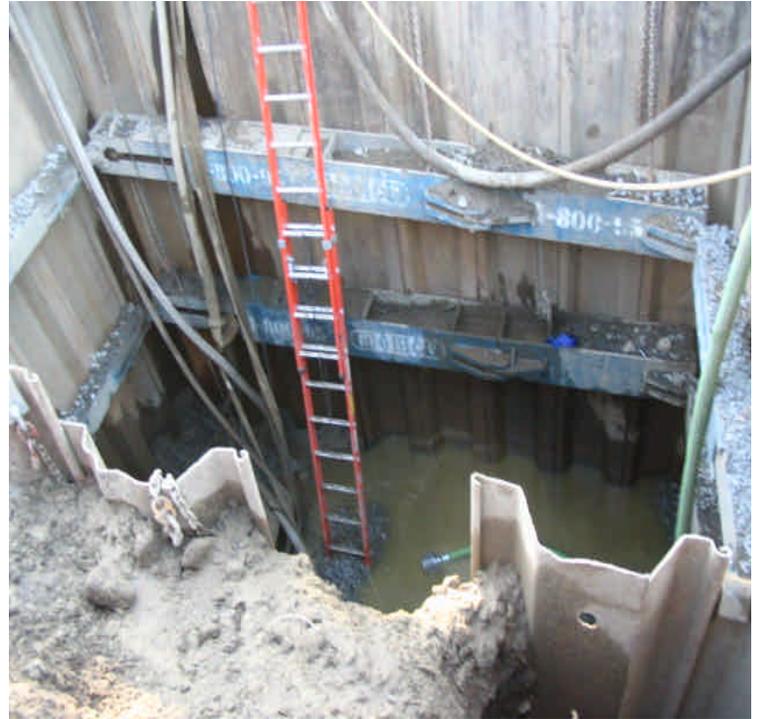
**Inspector's Signature:** Diana Walden



**345kV (Route 107 Daywork): The photo on the left shows some materials left uncovered and not immediately adjacent to the active work. Catch basins in this work area were also not protected. The photo on the right shows an area where an excavator had been parked, resulting in disturbed soil without erosion controls. (9/21/05)**



**View of work north of the Georgetown Deli. A section of silt fence is down here and needs repair as a wetland is located downgradient. (9/21/05)**



**345kV (Route 7):** Photo on the left shows one of several storage areas have materials placed beyond previously cleared areas and have no clear limit of work. Keep materials as contained as possible. Photo on the right is of the receiving pit constructed on the north side of the stream. A second excavation not seen in the photo is present to repair a potential leak in a sanitary sewer line.



Several views of areas of sedimentation to the stream and area adjacent to the settling basin at the jack and bore. These areas formed even with the use of multiple controls and should be removed carefully by hand/shovel. (9/21/05)



Photo on the left shows dewatering hoses placed under the silt fence. This will undermine the purpose of the fence so the hoses were removed and placed over it. The photo on the right shows where a small leak was noted and placed with absorbent pads and pellets. (9/21/05)



Repairs were made immediately following the inspection and conditions were significantly improved. Photo on the left shows the settling basin having been drained and lined with clean trap rock to better contain and filter discharge water. The photo on the right shows an overview of the area following the repairs. (9/21-9/22/05)