

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: May 4, 2005

Inspector: Diana Walden

Location: 345kV XLPE Component

Storm/

Rain Event: Between 0.9-0.56" of rain was recorded over 5/2-5/3 as reported by NOAA and based on location.

Areas of Inspection	Observation	Recommended Action	Corrective Action
Access Roads and Adjacent Roadways	<p>-The jack and bore of East Swamp Brook is accessed from the roadway. 2/16-5/4/06.</p> <p>- No obvious sediment tracking was present on the roadway. 5/4/06</p> <p>-Trenchwork appeared complete at Plumtree Substation. Restoration had occurred along the access drive. 5/4/06</p> <p>- All observed catch basins near disturbed soil were placed with controls. 5/4/06</p> <p>-The stone access off Rt. 58 is in good shape but some vehicle tracking remains in the wetland where the mats were removed. 4/12-5/4/06</p> <p>- Work will return here eventually to connect to the trench. Ruts will be repaired at that time. 5/4/06</p>	<p>- Equipment is located on both sides of the bore as well as in the adjacent ball park during the day. 5/4/06.</p> <p>-Street sweeping is being performed regularly. Continue to monitor. 5/4/06</p> <p>- See erosion control section for more detail. 5/4/06</p> <p>-Continue to place controls on CBs where work will occur adjacent. 5/4/06</p> <p>- Stone will be removed at the end of work here. See other sections for more information. 4/6-5/4/06</p> <p>-Avoid backtracking into this area since the mats have already been pulled. Restoration should occur when work here is complete. 4/12-5/4/06</p>	<p>- Not applicable (N/A)</p> <p>-Street sweeping will be done regularly.</p> <p>-N/A</p> <p>- CBs are being covered.</p> <p>- N/A.</p> <p>-Needs attention when work is complete</p>

Areas of Inspection	Observation	Recommended Action	Corrective Action
Trench and foundation construction	- Work at the jack and bore of East Swamp	- The area remains well contained at this time but	-N/A
Trench and foundation construction continued	Brook located at the intersection of Plumtrees Rd. Walnut Hill Rd. and Whittlesey Dr. is ongoing. Sheet piling/shoring is in place on both sides of the intersection. 2/2-5/4/06	the operation is running significant problems with keeping water out of the trench. The grout injections didn't work as anticipated. 4/26-5/4/06	
	-Active trenching appeared complete in the Plumtree substation yard. 4/19-5/4/06	-The area remains contained. See erosion control section for more information. 5/4/06	-N/A
	-Recent additional utility work had occurred in the pull-off near vault 2a and b. 5/4/06	-See EC section for more details. 5/4/06	-N/A
	- Most roadway trench work was complete at the time. Some work in roadway shoulders continued near vault 5. 5/4/06	- See EC section for more details. Permits are needed to continue trench work into Rt. 58. 4/26-5/4/06	-N/A
	-The trench is complete along the slope at Hoyts Hill with a small area of open trench remaining at the base. 4/6-5/4/06	- See erosion control section for more details 5/4/06	- N/A
Erosion and Sediment Controls (includes inspection within 24 hours of a storm event) Plumtree Substation Walnut Hill Rd.	- The minor disturbance to the wetland swale along the access road was repaired. 5/4/06	-The area was regraded and restored and revegetation was noted. 5/4/06	-The area was restored
	-Trench work in the yard was backfilled and the area is contained. 5/4/06	-None at this time. 5/4/06	-N/A
	-The stone stockpile on the access drive along the wetland swale was removed. 5/4/06	-None at this time. 5/4/06	- The pile was removed.
	- Additional utility work occurred near vault 2A&B. Silt fence is in	- Restore when feasible and keep stone surface to the minimum necessary.	-Needs attention when feasible

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<p>Jack and Bore</p> <p>Judd Ave</p> <p>Hoyts Hill</p>	<p>place but the area will need some restoration. 5/4/06</p> <p>- One inactive filter bag remained behind the silt fence. 4/26-5/4/06</p> <p>-The plastic liner remains within the stream bed. The sandbag diversion was restored but excess water is still a problem here. 5/4/06</p> <p>-Equipment was still located in the area of vault 5. 5/4/06</p> <p>- Transition station contractors tracked along the EC blankets installed on the slope. 5/4/06</p> <p>-Equipment tracking was noted in the wetland beyond the stone access where mats had previously been. 4/19-5/4/06</p>	<p>Allow natural revegetation where possible 5/4/06</p> <p>-Upon restoration, remove all materials including filter bags. 4/26-5/4/06</p> <p>-The stream was still running clear at the time and will be restored eventually. New solutions are being investigated. 5/4/06</p> <p>- The area was well contained with good controls. 5/4/06</p> <p>- Transition contractors will be responsible for repairs here. 5/4/06</p> <p>- Mats may have been removed prematurely. The wetland surface should be restored when work is complete here. 4/19-5/4/06</p>	<p>-Needs attention when feasible</p> <p>-N/A at the time</p> <p>- N/A</p> <p>- N/A (transition jurisdiction)</p> <p>-Needs attention when work is complete</p>
<p>Inland Wetland and Watercourse encroachment and mitigation</p>	<p>-East Swamp Brook crosses under Plumtrees Rd. A large plastic liner is in place across the bed and up along the banks to keep water out of the bore trench. The sandbag diversion was restored. 5/4/06</p> <p>-Problems with excess water continue in the trench and further methods are being evaluated. 5/4/06.</p>	<p>- The stream continues to run clear. Be sure to remove the liner and restore the natural bed when work is complete. Watch the banks where soil was disturbed for any erosion. 2/16-5/4/06</p> <p>- Sheet piling in the stream may be necessary and appropriate permits will be obtained. 5/4/06</p>	<p>-N/A at this time until the work is complete</p> <p>- N/A at this time.</p>
<p>State species of concern, threatened and endangered species</p>	<p>-The D&M plan and clearance letter states that state-listed species are not located in this</p>	<p>- N/A</p>	<p>-N/A</p>

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	<p>work area. -However, a wood turtle was noted at Plumtree Substation last spring. 5/4/06</p>	<p>-345kV XLPE crews should also be performing daily walkthroughs before moving equipment in the morning. 4/26-5/4/06</p>	
<p>Vegetative clearing limits (including trees to save or danger trees noted)</p>	<p>-Most work on this project remains in the roadway, access drives or maintained lawn areas. 5/4/06</p> <p>- A number of areas remain disturbed along the roadways. 4/12-5/4/06</p> <p>- When restoring vault 2, a stone surface will be necessary over the vault but wetland vegetation is returning near the silt fence. 5/4/06</p>	<p>-Restore lawn and vegetation as necessary when work is complete during the growing season. This is needed especially where vaults were installed. 3/2-5/4/06</p> <p>- Areas should be restored within D&M timeframes if work will not return here 4/26-5/4/06</p> <p>- Keep the stone area to the minimum necessary and restore vegetation in the remaining area. 5/4/06</p>	<p>-Needs attention within timeframes.</p> <p>- Needs attention when feasible</p>
<p>Dewatering</p>	<p>-The amount of water continues to overwhelm the dewatering efforts at the jack and bore. Dewatering is occurring continuously in order to keep the trench workable. Further actions are being evaluated here. 5/4/06</p>	<p>- In addition, the frac tank had been in use and attempts continue to divert stream water from over the work area with sand bags which were restored following the heavy rains. 5/4/06</p>	<p>-N/A</p>
<p>Blasting</p>	<p>- No blasting is occurring at this work area.</p>	<p>- None at this time.</p>	<p>-N/A</p>
<p>Soils</p>	<p>- For the most part, soil is being removed directly from the remaining trenchwork and the operation is very clean. 5/4/06</p> <p>- Topsoil was stripped and stockpiled at the contractor yard. 3/15-5/4/06</p>	<p>- None at this time. Soil work is limited at the moment while the Rt 58 permit is being obtained. 5/4/06</p> <p>- None at this time. Controls are well installed here. 3/15-5/4/06</p>	<p>- N/A</p> <p>-N/A</p>

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Spills and Material Storage Areas	- Equipment should be stored overnight up to 100ft or as far from resource areas where practicable. 1/19-5/4/06	<ul style="list-style-type: none"> - Report spills immediately, even if they are being controlled. - Any fuels and agents not in use should be covered and stored before leaving for the day. - Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site. 	-N/A at the time

Next likely scheduled inspection: Wednesday May 10, 2006

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 XLPE (Plumtree Substation): Photo on the left shows where the wetland swale was repaired/restored after the dewatering box was removed a few weeks ago. Photo on the right shows where the stone pile was removed from the swale edge as recommended. 5/4/06



(Jack & Bore) Photo on the left shows the stream where the sandbag diversion was repaired after the storm. Photo on the right shows some of the work for injecting the grout into the trench but excess water problems are still present here. 5/4/06



(Walnut Hill Rd) Photo on the left shows the completed trench work along the roadway, up to the receiving area of the J&B. Photo on the right shows a view of the vault 2 area where additional utility work had been completed. 5/4/06



(J&B): Photo shows a view into the bore pit. Dewatering needs to occur continuously to handle the water here. 5/4/06



(Whittlesey Dr and Hoyts Hill) Photo on the left shows the completed trench in the roadway looking towards the contractor yard on Whittlesey Dr. Photo on the right shows the remaining open trench flooded with clear groundwater at the base of slope at Hoyts Hill. 5/4/06



(Hoyts Hill) Photo shows where transition station work was necessary along the recently restored slope. Contractors at the transition station will be required to make repairs (not 345kV XLPE responsibility). 5/4/06