

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: December 14, 2005

Inspector: Diana Walden

Location: 345kV Underground Route

Storm/

Rain Event: Approximately 0.76” of precipitation fell in the form of snow on 12/9 as reported by NOAA.

Areas of Inspection	Observation	Recommended Action
Vault Openings and Trench Construction	<ul style="list-style-type: none"> - Trenching and pipe installation, continue in several locations off Rt. 7 in Wilton including near #475 in an adjacent field. 12/14/05 - Work moving south of Catalpa Rd. has resumed with stockpiles and bare soil noted. 12/1-12/14/05 - Road work on Rt. 107, north of the Georgetown Deli has ceased. 12/14/05 - Trenching and pipe installation, continued during the day along Umpawaug Road. 10/5-12/14/05 - The Horizontal Direction Drill at School Rd. has had some additional technical problems. There are also still issues with turbid water. 12/8-12/14/05 - Infrastructure has been installed through the culvert at the Georgetown Deli J&B and the trench is extended on the bore side. 12/14/05 - Excavation for a vault has 	<ul style="list-style-type: none"> -Continue providing good “house- keeping” along the roadways. Controls are needed south of Catalpa Rd. See additional sections for more information. 12/1-12/14/05 -None at this time. 12/14/05 -Some controls are needed. See additional sections for more information. 12/14/05 Turbid water as a result of drilling needs attention here. There is a large amount of exposed surfaces as well. See additional sections for more details.12/8-12/14/05 - This area looks mostly well contained, but see additional sections for more details. 12/14/05 - None at this time. 12/14/05

Areas of Inspection	Observation	Recommended Action
	<p>begun on the Archers Lane access road. 12/14/05</p>	
<p>Erosion and Sediment (E&S) Controls (includes inspection within 24 hours of a storm event) continued</p> <p>Route 7</p>	<p>-Active work is ongoing south of the Catalpa Rd. area. Bare soil/stockpiles were present. 12/1-12/14/05</p> <p>- Active work was not noted at the HS J&B area this week and the area is snow covered. 12/1-12/14/05</p> <p>-Underwater sediment accumulation was still noted in the stream at the J&B in several locations. This should be removed before spring flows disperse it downstream. 11/10-12/14/05</p> <p>- At the HDD, the detention area continued to receive turbid water and mud, and patterns in the snow indicate it is directly due to wash from the bore operation and a faulty piece of equipment. 12/14/05</p> <p>- Pooled turbid water was still identified below the tanks and migrating towards the basin which already has a large amount of standing turbid water. 12/8-12/14/05</p> <p>- Silt fence was installed across the connection to the eastern wetland but could not be toed in due to frozen ground. 12/14/05</p> <p>-The entire area has a great deal of bare/exposed soil surfaces which can create turbid run-off. 12/14/05</p> <p>- Some internal E&S controls near the basin were degraded.</p>	<p>- Jersey barriers are being used to contain the site but erosion controls may still be necessary. 12/1-12/14/05</p> <p>- If any project related work occurs, erosion controls need some attention. Clean up should also be considered if the town is not moving forward with their project. 12/8-12/14/05</p> <p>-The least impacting way to remove the sediment is likely by hand/shovel. It should be done carefully and with the instream controls in place. 11/10-12/14/05</p> <p>- A faulty equipment part was allowing mud to escape the tanks and it was being ordered and replaced. 12/14/05</p> <p>- Mud is also escaping the bore in the area of the basin due to a lack of structure created when the area was previously excavated. 12/14/05.</p> <p>-It was determined that a lined area would be constructed and the mud from the basin would be excavated to this daily and removed to Danbury. 12/14/05</p> <p>-Toe-in the fence as soon as there is a period of thaw to prevent run-off from the disturbed area getting to the wetland. 12/14/05</p> <p>-Watch and improve condition of controls around the basin. 12/8-12/14/05</p>

Areas of Inspection	Observation	Recommended Action
	12/8-12/14/05	
<p>Route 7 continued</p> <p>Rt. 107 Daywork</p> <p>Umpawaug Rd.</p>	<ul style="list-style-type: none"> - The roadside swale at the storage area near #848 (Rt.7) does not have controls in place mostly due to landowner activity. Project controls in the back of the yard are also affected. 12/8-12/14/05 - A small portion of silt fence behind the stockpile at the CL&P yard was sagging. 12/14/05 - The J&B operation at the Georgetown Deli appears mostly contained . The adjacent area is now snow covered. 12/14/05 -The stream was flowing clear again at this time. The filtration system is still well and water at the base of the silt fence is also clear. 12/14/05 -Active trenching work was adjacent to a wet swale near #144 and sediment and snow had been pushed into the swale. Silt fence was waiting to be installed. 12/14/05 - Another work area near #77 had a similar situation in a wet swale here. 12/14/05 -A significant amount of sediment and stockpiles were noted due to the areas of active trenching. 12/14/05 - Sediment was noted across the roadway. Make sure this is being swept on a regular basin. 12/8-12/14/05 	<ul style="list-style-type: none"> - Continue to monitor activity in here. Most of the work is due to the landowner. Watch placement of project materials in the vicinity of this roadside swale. 12/8-12/14/05 - The Norwalk river is immediately down gradient here so controls should be maintained prior to any thaw periods. 12/14/05 -Place protective measures on the catch basin noted here if necessary and continue to monitor and maintain controls adjacent to the stream . 12/14/05 - Continue to perform regular filter changes and monitoring during non-active work hours as stated by NU to the siting council. 12/1-12/14/05 - The sediment was going to be pulled back and erosion controls installed by the end of the day. Controls should be in place prior to any soil disturbance in the vicinity of a resource area. 12/14/05 - The sediment was to be backfilled and erosion controls were to be installed across and along the swale. 12/14/05 -Ensure that these stockpiles are only out for the day and that any adjacent swales or wetlands are protected prior to disturbance. 12/14/05 -Street sweep/hand sweep as necessary. 12/14/05
Adjacent Wetlands and	-At the jack and bore near Allens Meadow Park, the	- Hand shoveling is likely the best solution with instream

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Waterways	<p>stream had some remaining accumulated sediment under the water which needs to be removed. 11/10-12/14/05</p> <p>-The stream at the Georgetown Deli jack and bore was running clear through the project site. 12/14/05</p> <p>- Bubbling, apparently from a ground fracture, was noted in the wetlands beyond the HDD site. An observable deposit of sediment had occurred into a channel adjacent to the Norwalk River. A line of coloration was noted. 12/14/05</p>	<p>controls in place. This needs to happen before spring rains disperse it. 10/27-12/14/05</p> <p>- Contractors state that they have been performing filter changes on a regular basis to prevent turbidity. 12/8-12/14/05</p> <p>- Contractors were to watch this spot carefully as well as clean up all deposited sediment. They were also going to install haybales at the confluence of the channel and the river. 12/14/05</p>
Staging, Storage, and Parking Areas	<p>- The silt fence at the equipment storage yard located on property south of the Rt. 7 & 107 intersection is down in a few locations. Landowner activities continue here. 11/23-12/14/05</p> <p>-The overall condition at School Rd. HDD area includes a lot of bare, exposed soil and turbid washwater. 12/14/05</p> <p>- The racquet club storage yard has been very active with a lot of materials. Make sure inlets here are protected. 10/27-12/14/05</p> <p>- A small storage area was noted along Umpawaug Rd. but trench boxes were noted in wet swales adjacent to the work. 12/14/05</p> <p>- The CL&P yard had a slight sag in the silt fence near the stockpile but all other controls were good. 12/14/05</p>	<p>- 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. 12/14/05</p> <p>- Take care with materials or disturbance too close to the swale by Rt.7. 12/14/05</p> <p>-Determine how to contain the area better. A lined area will be created for daily excavation of the basin and then removal to Danbury. 12/14/05</p> <p>- Keep within the limits of the yard and don't encroach into the brush. 10/27-12/14/05</p> <p>-Restore the area when work is completed if feasible and store materials in upland areas when possible. 12/14/05</p> <p>- Make sure the fence is in good shape before any thaw periods. 12/14/05</p>

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Soils	<p>- Most soils adj. to roadways on the project route are being trucked to a waste facility in Danbury for storage and eventual disposal.</p> <p>- Backfill soils are allowed to be stored along Umpawaug Rd. but only for the day. 10/5-12/14/05 (A large amount of soil was noted this inspection. 12/14/05)</p> <p>- Mud will be excavated from the HDD basin to a lined area for transport to Danbury as a solution to the turbidity issues here. 12/14/05</p>	<p>- Soils appear to be handled appropriately. 12/14/05</p> <p>-In general, if any pile remain longer than the day, controls should be placed. Controls should be placed regardless if work is adjacent to swales or wetlands. 12/14/05</p> <p>- Ensure the basin is contained. 12/14/05</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>-Snow cover is now a factor in restoration/stabilization attempts. 12/8-12/14/05</p>	<p>- Attend to disturbed areas as feasible in the appropriate time frames. 11/10-12/14/05</p>
Dewatering	<p>-Several frac tanks are still in place at the Georgetown Deli parking lot in order to hold the water from the jack and bore pits here. They have cycled over several million gallons of water since the start of the project. 12/1-12/14/05</p> <p>- The water is filtered through the tanks, sent to a filter bag on a riprap pad, through a silt fence and back to the stream. 11/23-12/14/05</p>	<p>- Continue to monitor for effectiveness. The water in the stream was running clear through the project and downstream at the time of inspection. 12/14/05</p> <p>- Slight turbidity occurs when filters are changed along the system but the silt fence helps to control this. 11/23-12/14/05</p> <p>- Contractors have stated that filters are being changed regularly. 12/14/05</p>
Blasting	<p>- No blasting is occurring on site at this time.</p>	<p>- None at this time.</p>



345kV (Umpawaug Rd Daywork): View of a stream and wetland near the Diamond Hill Rd. intersection. Several swales connect to the area as well. Erosion controls should be installed as work moves closer. 12/14/05



View of sediment stockpiled and pushed with the snow into a wet swale near #144 Umpawaug Rd. The sediment will be pulled back and silt fence was awaiting installation. Silt fence should be installed prior to soil disturbance if possible. 12/14/05



Photo on the left shows the continued active trench work in the street and adjacent stockpiles.
Photo on the right shows work at a vault area near #88 Umpawaug. 12/14/05



Photo on the left shows a similar situation at a work area at #77. Sediment was pushed towards the beginning of a wet swale. Silt fence will be installed across and along the swale. Photo on the right shows where trench boxes were placed in the swale. Attempt to keep material storage to upland areas. 12/14/05



345kV (Georgetown Deli Jack and Bore): Photo on the left shows the clarity of the water entering the stream from the riprap outlet. Photo on the right shows the stream flowing clear as it leaves the project site. 12/14/05



Photo on the left shows a view of the bore pit and trench that has been excavated leading back from the stream. Photo on the right shows the project infrastructure installed in the culvert pipe. 12/14/05



345kV (Rt 7 CL&P yard): Photo on the left shows an area where the silt fence around the stockpile is sagging. The fence should continue to be maintained . Vehicles and trailers are using the yard.
12/14/05



345kV (J&B and School Rd HDD): Photo on the left shows the remaining erosion controls at the old jack and bore site at the High School. Photo on the right shows where sediment deposition has occurred in a channel leading to the Norwalk River. A line of coloration could be seen at the edge of the main river. 12/14/05



Photo shows where bubbling was occurring, potentially a small fracture where sediment likely emerged. The sedimentation into the channel began at this point. 12/14/05



Photo on the left shows an overview of the work area and the initial portion of the bore. Turbid water is flowing from this point into the basin. Photo on the right shows that the turbid water in the basin is coming from the operation and not a storm event. 12/14/05



Photo on the left shows where the silt fence has been installed to the east across the wetland area but it could not be toed-in due to frozen ground conditions. The photo on the right shows where excavation has created a berm near the edge of the basin. 12/14/05



Photo on the left shows the disturbed soil surface near the tanks where the area has been excavated. The photo on the right shows additional disturbance and where turbid water is escaping to the basin. 12/14/05