

**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.**

**Underground Line Watercourse and Railroad Crossings**

**Date:** January 11, 2008

**Inspector:** Margaret Washburn

**Location:** Crossings of Watercourses and Railroads in Segments 3, 4a and 4b

**Rain Event:** 0.14” of precipitation was reported since the previous inspection, with 0.09” of the total recorded on 1/1. Rain was noted the day of inspection. (Bridgeport, CT NOAA data).

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p><b>Access Roads and Adjacent Roadways Saugatuck River</b></p>	<p><b>On the east side of the Saugatuck River, the stone construction entrance to the adjacent paved parking lot off Imperial Ave. remains in good shape. Sediment tracking was not an issue. 1/11/08</b></p>	<p><b>Continue to maintain construction entrance to reduce sediment migration from the work area. Continue to sweep the parking lot area as necessary. 1/11/08</b></p>	<p><b>Continue to monitor.</b></p>
	<p><b>On the west side, of the Saugatuck River, run-off was carrying sediment along the street into a protected catch basin. 1/11/08</b></p>	<p><b>Attend to sediment tracking and reinforce erosion control measures in this work area to minimize sedimentation. Sweep the roadway as needed. 1/11/08</b></p>	<p><b>Needs attention</b></p>
<p><b>Ash Creek</b></p>	<p><b>Work zones have resumed along Old Post Road following the break in activities. Drill rigs and equipment were back in place. 1/11/08</b></p>	<p><b>Continue to monitor for tracking or slurry residue. See erosion control section for more details. 1/11/08</b></p>	<p><b>Needs regular attention.</b></p>
<p><b>Vault Openings and Trench Construction Saugatuck River</b></p>	<p><b>The final reaming from east to west was taking place. The drill pits, equipment and materials remain in place. Booms remain in place within the river to contain previous frac-out</b></p>	<p><b>Monitor and maintain sediment and erosion controls. 1/11/08</b></p>	<p><b>Not Applicable (NA)</b></p>



Areas of Inspection	Observation	Recommended Action	Corrected Action
Ash Creek	<p><b>Lincoln St. needs repair. 12/31-1/11/08</b></p> <p><b>On the east side of the Saugatuck River, silt fence around the drill pit needs repair again. Construction fence is in place. 12/21-1/11/08</b></p>	<p><b>12/31-1/11/08</b></p> <p><b>Controls need maintenance. Identify areas of potential high flow or run-off and reinforce controls when necessary. 12/21-1/11/08</b></p>	<p><b>Needs attention again.</b></p>
	<p><b>Catch basins near Ash Creek appear to be free of construction related sediment and debris as work is on hold here. 1/11/08</b></p>	<p><b>Continue to monitor and maintain sediment control measures. Contractors state the area is cleaned regularly as spills are common during active work. 1/11/08</b></p>	<p><b>Catch basins were free of debris.</b></p>
Housatonic River	<p><b>Perimeter controls are in place around the work area on the west side of the Housatonic River. A dirt berm is in place around the drilling pit. The drilling pit had been recently pumped out so that capacity was restored. 1/11/08</b></p>	<p><b>Continue to monitor the area and maintain the controls to ensure they adequately contain the area. Ensure adequate capacity for drilling materials as well as stormwater run-off. 1/11/08</b></p>	<p><b>Pit was recently pumped to restore capacity. Continue to monitor.</b></p>
	<p><b>On the east side of the river, the dirt berm around the drilling pit was heavily mulched with hay, and hay bales were in place between the dirt berm and the river. These sedimentation control measures appeared to be functioning properly. 1/11/08</b></p>	<p><b>Continue to monitor the area. Replace/secure controls as needed. 1/11/08</b></p>	<p><b>The earthen berm was recently mulched. Continue to monitor.</b></p>
	<p><b>A line of haybales remains in place along the eastern bank of the river. An area of run-off/slurry remains adjacent to the drill shaft, and trailer. 12/21-1/11/08</b></p>	<p><b>Continue to maintain controls to provide complete coverage and containment of the area. While the slurry is currently contained, it should be cleaned up to avoid unnecessary impact or potential tracking. 12/21-1/11/08</b></p>	<p><b>Needs attention when feasible.</b></p>

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	<p>The dirt berm located adjacent to a resource area on the western side of the staging area (on the east side of the Housatonic River) remains mulched. However, there are no other controls between the berm and the resource area. 12/21-1/11/08</p>	<p>Add controls if necessary. Permanently stabilize area when feasible. 12/21-1/11/08</p>	<p>The area was mulched but controls may still be needed.</p>
<p><b>Inland Wetland and Watercourse encroachment and mitigation</b></p>	<p>The final reaming under the Saugatuck River was taking place. Booms remain in the river to contain materials from previous frac-outs. 1/11/08</p>	<p>Continue to implement the approved monitoring plan for the crossing of the Saugatuck River provided in the D&amp;M plan. 1/11/08</p>	<p>NA</p>
	<p>The HDD of Ash Creek and associated wetlands in Fairfield and Bridgeport will continue after equipment has been repaired. 1/11/08</p>	<p>Continue to implement the approved monitoring plan for the crossing of Ash Creek provided in the D&amp;M plan 1/11/08</p>	<p>NA</p>
	<p>The HDD of the Housatonic River and associated wetlands in Stratford and Milford will continue in the near future. 1/11/08</p>	<p>Continue to implement the approved monitoring plan for the crossing of the Housatonic provided in the D&amp;M plan. 1/11/08</p>	<p>NA</p>
	<p>On the east side of the Housatonic River, the berm along the west side of the staging area has been mulched but there are no other controls between it and the adjacent resource area. 12/21-1/11/08</p>	<p>Install erosion control measures between the dirt berm and the adjacent resource area if needed. See erosion controls section for more details. 12/21-1/11/08</p>	<p>The berm was mulched, but additional controls may still be needed.</p>
<p><b>Staging Storage, and Parking Areas Saugatuck River</b></p>	<p>A staging area remains on either side of the Saugatuck River to accommodate the HDD activities. On the east side of the river, the staging area is within a gravel parking area. On the west</p>	<p>See erosion control section for more details. Materials are now too extensive to contained in the yard on the west side. 1/11/08</p>	<p>NA at this time.</p>

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<p>Ash Creek</p> <p>Housatonic River</p>	<p>parking area. On the west side, staging is now in the street beside the church parking lot. 1/11/08</p> <p>On the east side of the river, several hoses are being used in the HDD operation and are located outside of the contained, silt fence limits of the staging area. Hoses also appear to be placed under the silt fence at one point. 10/25/07-1/11/08. The contractor states a natural berm here will provide additional containment. 1/11/08</p> <p>The work zones have been re-established along Old Post Road for the work at Ash Creek. 1/11/08</p> <p>A staging area remains within a paved parking lot in the back of a shopping plaza on the west side of the Housatonic River to accommodate the HDD activities. A drill pit/work area is also located to the east of the River within a paved access. 1/11/08</p>	<p>Wherever feasible, relocate hoses within the staging area, using the silt fence to protect surrounding areas from potential spills or leaks. When hoses need to leave the contained area, construct forked or Y-shaped stakes to prop the hoses over the silt fence rather than under the controls. 10/25/07-1/11/08</p> <p>See erosion control and spills/material storage sections for more details. Contain all material within the established limits of work zone. 1/11/08</p> <p>Contain all material within the established limits of work zone. Further containment and planning may be necessary here. See erosion control and soils sections for more details. 1/11/08</p>	<p>Continue to monitor and evaluate.</p> <p>NA at this time.</p> <p>Continue to monitor.</p>
<p>Soils</p>	<p>Soils are exposed as part of the drill set-up and excavations at each HDD. Drilling slurry (bentonite clay) is used in the process. 1/11/08</p> <p>The drilling pit within the east side staging yard at the Saugatuck River appears adequately sized for the drilling operations and remains open. 1/11/08</p>	<p>Monitor for dust as previously indicated. See the spills and material storage section. 1/11/08</p> <p>Continue to monitor the amount of slurry in relation to the size of the pit to ensure adequate storage capacity. Also consider impacts from future storm events and run-off. 1/11/08</p>	<p>NA</p> <p>Requires regular attention and monitoring.</p>

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	<p><b>On the west side of the Saugatuck River, stone and geotextile fabric remain in place on the exposed soil in the park adjacent to the river. 1/11/08</b></p> <p><b>The drilling pits on both sides of Ash Creek will be active in the near future. 1/11/08</b></p> <p><b>Drilling pits are excavated on both sides of the Housatonic River. The drilling pits on the west side have a small dirt/sand berm around portions of the perimeter. Both drill pits appear adequately sized. 1/11/08</b></p>	<p><b>Continue to provide soil stabilization. Restore the area to original conditions when access needs are complete. 1/11/08</b></p> <p><b>When work resumes, monitor the amount of slurry in relation to the size of the pit to ensure adequate storage capacity. Also consider impacts from future storm events and run-off. 1/11/08</b></p> <p><b>Continue to monitor the amount of slurry in relation to the size of the pit to ensure adequate storage capacity. Also consider impacts from future storm events and run-off. 1/11/08</b></p>	<p><b>Stone and fabric were placed here.</b></p> <p>NA</p> <p>NA</p>
<b>State species of concern, threatened and endangered species.</b>	<b>According to the D&amp;M plan, state-listed species are not located in this work area.</b>	None.	NA
<b>Vegetative clearing (including trees to save or danger trees noted) or stabilization</b>	<p><b>Although not marked on the D&amp;M, a row of hedges/shrubs was removed (9/18/07) from the west side of the river near sta. #235+75. The contractor states that the property owner removed the shrubs in preparation for the HDD work. 12/5/07-1/11/08</b></p> <p><b>Shrubs were removed from the west side of the river near sta. #234+50 as per the D&amp;M Plan 1/11/08</b></p>	<p><b>If shrubs were removed by the property owner prior to HDD work, then discuss and reach an agreement with the property owner regarding the final restoration measures. 12/5/07-1/11/08</b></p> <p><b>When work is completed, restore the area as indicated in the D&amp;M plan. 1/11/08</b></p>	<p><b>Contractor states the property owner removed the shrubs. Needs evaluation during restoration.</b></p> <p>NA at this time.</p>
<b>Dewatering</b>	<b>Dewatering activities were observed on the east side of the Saugatuck River; as</b>	<b>Continue to ensure that material is contained appropriately and treated</b>	NA

Areas of Inspection	Observation	Recommended Action	Corrected Action
	<p>well as the west side of the Housatonic River. Vac trucks were observed on the west side of the Saugatuck River, in the park near the booms in the river. 1/11/08</p>	<p>according to the ground-water handling plan as referenced in the D&amp;M. 1/11/08</p>	
<p><b>Blasting</b></p>	<p>No blasting has been proposed. 1/11/08</p>	<p>None 1/11/08</p>	<p>NA</p>
<p><b>Spills and Material Storage</b></p> <p>Saugatuck River</p> <p>Ash Creek</p> <p>Housatonic River</p>	<p>Reserve spill cleanup materials/kits were observed in the staging area. 1/11/08</p> <p>On the east side of the Saugatuck River leaves and snow covered previously spilled slurry material. During the inspection, the area was exposed and it was evident that spilled material remains in several locations contained within the yard. 12/31-1/11/08</p> <p>No spills of slurry were observed due to the temporarily inactive work. 1/11/08</p> <p>The large drill pit on the west side of the Housatonic River is intended to facilitate drilling activities and project sequencing. The contractor indicated that some slurry must remain in the pit overnight during cold weather to prevent the equipment from freezing. The drill pit had recently been pumped out and capacity was restored. 1/11/08</p>	<p>Continue to bring spill kits to active work sites. 1/11/08</p> <p>Spilled slurry material should be properly removed and disposed. 12/31-1/11/08</p> <p>Continue to monitor. 1/11/08</p> <p>Continue to monitor the amount of slurry in relation to the size of the pit to ensure adequate storage capacity. Also consider impacts from future storm events and run-off. Contractor states that the level of slurry in the pit will be lowered at the end of each workday to provide additional capacity 12/12/07-1/11/08.</p>	<p>NA</p> <p>Needs attention.</p> <p>NA at this time</p> <p>Capacity was recently restored here. Needs regular evaluation.</p>
<p><b>Additional Observations</b></p>	<p>None. 1/11/08</p>	<p>None. 1/11/08</p>	<p>NA</p>

**Next likely scheduled  
inspection:**

**Friday January 18, 2008**

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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:** *Margaret Washburn, BSC Group*

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**Reviewer:** *Diana Walden, BSC Group*

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**On the west side of Ash Creek, work has resumed following the break. The drill rig remained in place while work was temporarily inactive due to mechanical problems.**



**On the east side of the Housatonic River, sediment remains on the paved area. The sediment should be removed prior to work resuming in this area to reduce potential tracking or unanticipated impacts.**



**On the east side of the Housatonic River, the earthen berm and hay bales around the drill pit appeared to be functioning well. The berm was recently mulched.**



**On the west side of the Saugatuck River, runoff was carrying sediment downgradient into a protected catch basin. Attention is needed to keep sediment off the roadway.**