

**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:** December 31, 2007

**Inspector:** Gregory Sommer

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

**Rain Event:** 1.77" of precipitation was reported since the previous inspection, with 0.47" of the total recorded on 12/23 and 0.65" on 12/29 (Bridgeport, CT NOAA data).

Areas of Inspection	Observation	Recommended Action	Corrected Action
<b>Access Roads and Adjacent Roadways Saugatuck River</b>	<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. 12/31/07</b>	<b>Continue to maintain construction entrance to reduce sediment migration from the work area. Continue to sweep the parking lot area as necessary. 12/31/07</b>	<b>Continue to monitor.</b>
	<b>On the west side, the driveway to the church parking lot has been temporarily opened during the break. Some sediment was observed on the surface of the lot. 12/21-12/31/07</b>	<b>Sweep and attend to the sediment to avoid tracking out of the work area. 12/31/07</b>	<b>Needs regular attention</b>
<b>Ash Creek</b>	<b>Temporary work zone/ lane closures along Old Post Road were removed during the break in activities. 12/31/07</b>	<b>When work returns, continue to monitor for tracking or slurry residue. See erosion control section for more details. 12/31/07</b>	<b>Lane closures were removed for the break.</b>
<b>Vault Openings and Trench Construction Saugatuck River</b>	<b>Both the east and west sides of the Saugatuck River HDD will remain inactive for two weeks during the holiday break. The drill pits, equipment and materials remain in place. Booms remain in</b>	<b>Monitor and maintain sediment and erosion controls. 12/31/07</b>	<b>Not Applicable (NA)</b>

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<p><b>Ash Creek</b></p>	<p>place within the river to contain previous frac-out material. 12/31/07</p> <p>Both sides of Ash Creek will remain inactive for two weeks during the holiday break. Conduit had been pulled through the first of the two borings. Drill pits were backfilled and paved. 12/31/07</p>	<p>When work resumes, monitor carefully for drilling fluid releases and continue to address as specified in the monitoring plan provided in the D&amp;M. Contractors have been monitoring pressure and making regular visual inspections of the creek. 12/31/07</p>	<p>NA</p>
<p><b>Housatonic River</b></p>	<p>The drill pits, equipment and material remain on either side of the Housatonic River. Work is also on hold here during the break. 12/31/07</p>	<p>When work resumes, monitor carefully for drilling fluid releases and continue to address as specified in the monitoring plan provided in the D&amp;M. Contractors have been monitoring pressure and making regular visual inspections of the river. 12/31/07</p>	<p>NA</p>
<p><b>Erosion and Sediment Controls Saugatuck River</b></p>	<p>Any exposed soils have potential for airborne dust migration. Contractors are aware of the potential. On the east side of the Saugatuck River, crushed stone remains throughout the staging area to reduce tracking and dust. 12/31/07</p> <p>Stone and geo-textile fabric remains in the park on the west side of the Saugatuck River near sta. #236 where vac trucks and other vehicles have access. 12/31/07</p> <p>Haybales and mulch remain in place around the drill pit on the west side of the Saugatuck River. The silt fence along</p>	<p>Prevent dust migration by implementing the dust control measures. 12/31/07</p> <p>Ensure that catch basins located down gradient of areas where vehicles are exiting the work zone have gutter buddy/silt sack (or similar) in place. Sweep roadway as necessary. 11/21-12/31/07</p> <p>Repair damaged sections of silt fence. Continue to monitor and maintain the controls to ensure they adequately contain the area.</p>	<p>NA at this time.</p> <p>NA</p> <p>Needs attention.</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
Ash Creek	<p><b>Lincoln St. needs repair. 12/31/07</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. 12/21-12/31/07</b></p>	<p><b>12/31/07</b></p> <p><b>Continue to monitor and maintain the controls. Identify areas of potential high flow or run-off and reinforce controls when necessary. 12/21-12/31/07</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. 12/31/07</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. 12/31/07</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. Runoff/ recent storm events have contributed to the amount of fluid in the drilling pit, which is nearing capacity. 12/31/07</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. 12/31/07</b></p>	<p><b>Continue to monitor. Needs attention soon</b></p>
	<p><b>The haybales have fallen into the hole left by the previous frac-out within the pavement on the east side of the Housatonic River. A new frac out was also located in the paved area here. 12/21-12/31/07</b></p>	<p><b>Continue to monitor the area. Replace/secure controls as a precaution. 12/21-12/31/07</b></p>	<p><b>More controls could be used.</b></p>
	<p><b>A line of haybales remain in place along the eastern bank of the river. An area of run-off/slurry remains adjacent to the drill shaft, and trailer. 12/21-12/31/07</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 impacts. 12/21-12/31/07</b></p>	<p><b>Needs attention when feasible.</b></p>
	<p><b>Recently graded dirt berm located adjacent to a</b></p>	<p><b>Add controls if necessary. Permanently stabilize area</b></p>	<p><b>The area was mulched but controls may still</b></p>

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	<p>resource area on the western side of the staging area (on the east side of the Housatonic River) has been mulched. However, there are no other controls between the berm and the resource area. 12/21-12/31/07</p>	<p>when feasible. 12/21-12/31/07</p>	<p>be needed.</p>
<p><b>Inland Wetland and Watercourse encroachment and mitigation</b></p>	<p>The HDD of the Saugatuck River and associated wetlands in Westport will continue after break. Booms remain in the river to contain materials from previous frac-outs. 12/31/07</p>	<p>Continue to implement the approved monitoring plan for the crossing of the Saugatuck River provided in the D&amp;M plan. 12/31/07</p>	<p>NA</p>
	<p>The HDD of Ash Creek and associated wetlands in Fairfield and Bridgeport will continue after break. 12/31/07</p>	<p>Continue to implement the approved monitoring plan for the crossing of Ash Creek provided in the D&amp;M plan 12/31/07</p>	<p>NA</p>
	<p>The HDD of the Housatonic River and associated wetlands in Stratford and Milford will continue after break. 12/31/07</p>	<p>Continue to implement the approved monitoring plan for the crossing of the Housatonic provided in the D&amp;M plan. 12/31/07</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. 12/21-12/31/07</p>	<p>Install erosion control measures between the dirt berm and the adjacent resource area if needed. See erosion controls section for more details. 12/21-12/31/07</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 side, staging is within a</p>	<p>See erosion control section for more details. Contain all material within the established limits of both yards. 12/31/07</p>	<p>NA at this time.</p>

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<p>Ash Creek</p> <p>Housatonic River</p>	<p>paved parking lot of a church. 12/31/07</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. 10/25-12/31/07                      The contractor states a natural berm here will provide additional containment. 12/31/07</p> <p>The temporary work zones along Old Post Road on both sides of Ash Creek will be reestablished after the break. 12/31/07</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. 12/31/07</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. 10/25-12/31/07</p> <p>See erosion control and spills/material storage sections for more details. Contain all material within the established limits of work zone. 12/31/07</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. 12/31/07</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. 12/31/07</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 during the break. 12/31/07</p> <p>On the west side of the</p>	<p>Monitor for dust as previously indicated. See the spills and material storage section. 12/31/07</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. 12/31/07</p> <p>Continue to provide soil</p>	<p>NA</p> <p>Requires regular attention and monitoring</p> <p>Stone and fabric were</p>

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	<p><b>Saugatuck River, stone and geotextile fabric were placed on the exposed soil in the park adjacent to the river. 12/31/07</b></p> <p><b>The drilling pits have been backfilled and paved on both sides of Ash Creek during the break. 12/31/07</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 but the western pit is reaching capacity. 12/31/07</b></p>	<p><b>stabilization. Restore the area to original conditions when access needs are complete. 12/31/07</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. 12/31/07</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. 12/31/07</b></p>	<p><b>placed here.</b></p> <p><b>NA</b></p> <p><b>NA</b></p>
<p><b>State species of concern, threatened and endangered species.</b></p>	<p><b>According to the D&amp;M plan, state-listed species are not located in this work area.</b></p>	<p><b>None.</b></p>	<p><b>NA</b></p>
<p><b>Vegetative clearing (including trees to save or danger trees noted) or stabilization</b></p>	<p><b>Although not marked on the D&amp;M, a row of hedges/shrubs was removed (9/18) 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. 12/5-12/31/07</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 12/31/07</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. 12/5-12/31/07</b></p> <p><b>When work is completed, restore the area as indicated in the D&amp;M plan. 12/21/07</b></p>	<p><b>Contractor states the property owner removed the shrubs. Needs evaluation during restoration.</b></p> <p><b>NA at this time.</b></p>
<p><b>Dewatering</b></p>	<p><b>Dewatering activities were not observed at this time. However vac trucks were</b></p>	<p><b>Continue to ensure that material is contained appropriately and treated</b></p>	<p><b>NA</b></p>

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	used to attend to some frac-outs prior to the break. 12/31/07	according to the ground-water handling plan as referenced in the D&M. 12/31/07	
<b>Blasting</b>	No blasting has been proposed. 12/31/07	None 12/31/07	NA
<b>Spills and Material Storage</b>	Reserve spill cleanup materials/kits were observed in the staging area. 12/31/07	Continue to bring spill kits to active work sites. 12/31/07	NA
<b>Saugatuck River</b>	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. 12/31/07	Spilled slurry material should be properly removed and disposed. 12/31/07	Needs attention.
<b>Ash Creek</b>	Materials have been temporarily removed from this area during the break in activities. 12/31/07	Continue to monitor. 12/31/07	NA at this time
<b>Housatonic River</b>	<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. Runoff/ storm events have raised the level of fluid in the drilling pit and is nearing capacity. 12/31/07</p> <p>A frac-out was observed on the east side of the Housatonic River within the paved area prior to the break. There was also an area of run-off and slurry by</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 12/12-12/31/07</p> <p>While the areas are contained within the staging area, slurry should be cleaned up to avoid unanticipated impacts. 12/21-12/31/07</p>	<p>Needs regular evaluation.</p> <p>Needs regular attention.</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
	<b>the drill shaft. 12/21-12/31/07</b>		
<b>Additional Observations</b>	<b>None. 12/31/07</b>	<b>None. 12/31/07</b>	<b>NA</b>

**Next likely scheduled inspection:**

**Thursday, January 10, 2008**

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:** Gregory Sommer, BSC Group

**Reviewer:** Diana Walden, BSC Group



**On the west side of the Housatonic River, the drill pit was left inactive during the holiday break. Recent storm events and run-off have raised the level of fluid in the drilling pit, which is nearing capacity.**



**On the east side of the Housatonic River, spilled drilling fluid remains over the paved area near the drilling pit and trailer. The area is contained, but the material should be removed prior to work resuming in this area.**



**Leaves and snow had covered previously spilled slurry material within the yard on the east side of the Saugatuck River. During the inspection, the area was exposed and it was evident that the spilled material remains in several locations here.**



**On the west side of the Saugatuck River, silt fence along Lincoln St. is in need of repair.**