

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: November 21, 2007

Inspector: Gregory Sommer

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

Rain Event: 0.36” of precipitation was reported since the previous inspection, with 0.16” of the total recorded on 11/15 and 0.20” on 11/20. (Bridgeport, CT NOAA data).

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p>Access Roads and Adjacent Roadways</p> <p>Saugatuck River</p>	<p>A stone construction entrance is in place at the access to the staging area on the east side of the Saugatuck River. The entrance is accessed from the paved parking area off of Imperial Ave. Sediment tracking was not an issue. 11/21/07</p>	<p>Continue to maintain construction entrance to reduce sediment migration from the work area. Continue to sweep the parking lot area as necessary. 11/21/07</p>	<p>Needs regular attention.</p>
<p>Ash Creek</p>	<p>The drilling area on west side of the Saugatuck River has been backfilled and the steel plates have been removed from Riverside Ave. 11/21/07</p>	<p>None. 11/21/07</p>	<p>Steel plates have been removed.</p>
<p>Ash Creek</p>	<p>Temporary work zone/ lane closures remain along Old Post Road near Ash Creek as crews begin HDD. A bentonite reclamation machine and drilling rig were on-site within the protected work zone. Catch basins have been protected. 11/21/07</p>	<p>Monitor the work area for tracking or slurry residue as activity increases. 11/21/07</p>	<p>Not Applicable (NA)</p>
<p>Vault Openings and Trench Construction</p> <p>Saugatuck River</p>	<p>The first of two bores between vault #14 to vault #15 under the Saugatuck River has been</p>	<p>When drilling resumes, continue to monitor carefully for drilling fluid releases and continue to</p>	<p>Proactive geotechnical borings were being conducted in an effort to reduce frac-outs on</p>

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<p>Ash Creek</p>	<p>Saugatuck River has been completed. Crews were pulling fishing wires. Final clean-up was also occurring in the river. Geotechnical borings were currently being performed to provide information before work on the second hole begins. 11/21/07</p> <p>Crews have begun drilling on the southwest side of Ash Creek. 11/21/07</p>	<p>releases and continue to address as specified in the monitoring plan provided in the D&M. Contractors have been monitoring pressure and making regular visual inspections in the river. 11/21/07</p> <p>Monitor carefully for drilling fluid releases and continue to address as specified in the monitoring plan provided in the D&M. Contractors have been monitoring pressure and making regular visual inspections in the river. 11/21/07</p>	<p>to reduce frac-outs on the second hole.</p> <p>NA at this time.</p>
<p>Erosion and Sediment Controls Saugatuck River</p>	<p>Plastic mats are in place on the west side of the Saugatuck River (and east of Riverside Ave.) near sta. #236 to minimize ruts. Minor sediment is beginning to accumulate along the shoulder of Riverside Ave here as vacuum trucks and other vehicles exit the work area. 11/21/07</p> <p>Silt fence and haybales remain around the drilling pit area on the west side of the Saugatuck River. The drill pit was recently re-graded, leaving soils exposed. 11/21/07</p> <p>Any exposed soils have potential for airborne dust migration. Contractors are aware of the potential. Special attention should be given to the Saugatuck River</p>	<p>Place a gutter buddy/silt sack (or similar) in any catch basins located down gradient of areas where vehicles are exiting the work zone to prevent sediment from entering basin. Sweep roadway as necessary. 11/21/07</p> <p>Continue to monitor and maintain the controls to ensure they adequately contain the area. See soils section for more details. 11/21/07</p> <p>Prevent dust migration by implementing the dust control measures. If exposed soils are not to be worked within 21 days, they should be stabilized. 11/21/07</p>	<p>Needs attention.</p> <p>NA</p> <p>NA at this time.</p>

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Ash Creek	<p>(east side staging area) as the majority of the area is an exposed dirt surface and residences are nearby. 11/21/07</p> <p>Silt fence remains around the drilling pit on the east side of the Saugatuck River. 11/21/07</p> <p>Catch basins near Ash Creek remain protected and surrounded with haybales. 11/21/07</p>	<p>Continue to monitor and maintain the controls. Temporarily stabilize any remaining exposed soils where work will not return within 21 days. 11/21/07</p> <p>Place a gutter buddy (or similar) in any catch basins located down gradient of exposed soils to prevent sediment from entering basin. 11/21/07</p>	<p>NA</p> <p>NA</p>
Inland Wetland and Watercourse encroachment and mitigation	<p>One of the two drill holes that are part of the watercourse crossing of the Saugatuck River and associated wetlands in Westport has been completed. Work will continue here with the second drill site. Final clean-up of previously released material continues in the river. 11/21/07</p> <p>Geotechnical borings were actively occurring in the Saugatuck River at this time. 11/21/07</p> <p>The HDD of Ash Creek and associated wetlands in Fairfield and Bridgeport is underway. 11/21/07</p>	<p>Continue to implement the approved monitoring plan for the crossing of the Saugatuck River and Ash Creek provided in the D&M plan in order to avoid impacts to the resource areas. 11/21/07</p> <p>Continue to monitor. 11/21/07</p> <p>Continue to implement the approved monitoring plan for the crossing of Ash Creek provided in the D&M plan in order to avoid impacts to the resource areas. 11/15/07</p>	<p>NA</p> <p>Geotechnical information should help reduce frac outs during the second drill.</p> <p>NA at this time</p>
Staging Storage, and Parking Areas	A staging area remains on either side of the Saugatuck River to	See erosion control section for more details. Contain all material	NA at this time.

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Saugatuck River	<p>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 paved parking lot of a church. 11/21/07</p> <p>A bentonite clay reclamation/ recycling machine, remains within the staging area on the east side of the river. The machine and other stored materials have been temporarily covered with tarps while work is on hold. 11/21/07</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. 10/25-11/21/07 The contractor states a natural berm here will provide additional containment. 11/21/07</p>	<p>within the established limits of both yards. 11/21/07</p> <p>Continue to monitor area for sediment tracking sweep parking lot/ roadway as necessary. Minimize vehicle traffic in the staging area when feasible. 11/21/07</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. 10/25-11/21/07</p>	<p>NA at this time.</p> <p>Continue to monitor.</p>
Ash Creek	<p>A temporary work zone has been established along Old Post Road near Ash Creek to accommodate the HDD activities. A bentonite reclamation machine is also set up here. 11/21/07</p> <p>A work area with the drill rig and initial excavation was set up in a paved area on the southwest side of the creek. 11/21/07</p>	<p>See erosion control section for more details. Contain all material within the established limits of the work zone. 11/21/07</p> <p>Contain all material within the established limits of the work zone. 11/21/07</p>	<p>NA at this time.</p> <p>NA at this time.</p>
Soils	Soils are exposed as part of the drill set-up and	Monitor for dust as previously indicated.	NA

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	<p>excavation. Drilling slurry (bentonite clay) is used in the process. A few spills of the drilling mud was noted. 11/21/07</p> <p>The drilling pit on the west side of the Saugatuck River has recently been re-graded, removing the previously applied mulch. 11/21/07</p> <p>The drilling pit on the southwest side of Ash Creek has been excavated. 11/21/07</p>	<p>See the spills and material storage section. 11/21/07</p> <p>Re-stabilize exposed soils with hay mulch if work will not return within 21 days. Continue to monitor the area and stabilize whenever feasible. 11/21/07</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. 11/21/07</p>	<p>Needs attention within timelines.</p> <p>NA</p>
<p>State species of concern, threatened and endangered species.</p>	<p>According to the D&M plan, state-listed species are not located in this work area</p>	<p>None.</p>	<p>NA</p>
<p>Vegetative clearing (including trees to save or danger trees noted) or stabilization</p>	<p>A row of hedges/shrubs was removed from the west side of the river near sta. #235+75. This area was not specifically marked with a note for clearing on the 4/5/07 revised version of the D&M Plan 9/18-11/21/07</p> <p>Shrubs were removed a few weeks ago from the west side of the river near sta. #234+50. This area does appear to be part of the section marked with a note for clearing on the 4/5/07 D&M Plan 11/21/07</p>	<p>Re-establish removed vegetation when feasible or confirm removal with the CSC if not approved by the D&M Plan. If the removal is included on a more recent revision of the D&M, restore vegetation as indicated when work is complete. 11/21/07</p> <p>When work is completed, restore the area as indicated in the D&M plan. 11/21/07</p>	<p>Needs evaluation/confirmation.</p> <p>NA at this time.</p>
<p>Dewatering</p>	<p>Dewatering activities were not observed at this time. 11/21/07</p>	<p>Continue to ensure that material is contained appropriately and treated according to the groundwater handling plan as referenced in the</p>	<p>NA</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
		D&M. 11/21/07	
Blasting	No blasting has been proposed. 11/21/07	None 11/21/07	NA
Spills and Material Storage	<p>Reserve spill cleanup materials/kits were observed in the staging area. 11/21/07</p> <p>A small drilling mud spill was previously observed on the ground near a frac tank in the staging area on the east side of the Saugatuck (11/15). Several other spills were also observed near the bentonite reclamation machine and near the drilling pit. 11/21/07</p> <p>Sand material has been stockpiled near the entrance to the staging area on the east side of the Saugatuck River. No controls are in place around the stockpile. 11/15-11/21/07</p> <p>Several bags of Max-Gel were torn and had spilled on the ground near the entrance to the staging area on the east side. 11/08-11/21/07</p>	<p>Continue to bring spill kits to active work sites. 11/21/07</p> <p>Remove and properly dispose of slurry material to minimize unnecessary impacts. 11/21/07</p> <p>Install erosion controls to properly contain the stockpiled material. 11/15-11/21/07</p> <p>Although non-toxic, remove the spilled Max-Gel and use caution to prevent future spills and minimize unnecessary impacts. 11/08-11/21/07</p>	<p style="text-align: center;">NA</p> <p style="text-align: center;">Needs attention.</p> <p style="text-align: center;">Needs attention.</p> <p style="text-align: center;">Needs attention.</p>
Additional Observations	None. 11/21/07	None. 11/21/07	NA

Next likely scheduled inspection:

Wednesday, November 28, 2007

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 Saugatuck River, the drilling pit has been re-graded, leaving the soil exposed. Erosion and sediment control measures remain in place around the perimeter of the work zone.



Geotechnical borings are being performed within the Saugatuck River to provide better data and minimize the number of frac-outs that may occur while boring the second hole.



Minor amounts of sediment are beginning to accumulate along the shoulder of Riverside Ave as vacuum trucks and other construction vehicles exit this area. Catch basins are not protected.



Final clean-up efforts are ongoing in the Saugatuck River as a result of previous frac-outs, and several containment booms have already been removed from the channel.



Slurry residue/drilling mud has been spilled in several locations in the staging area on the east side of the Saugatuck River. Slurry spills were observed behind the bentonite reclamation machine in multiple locations and near the drilling pit. The residue previously observed near the frac tank also remains.



Horizontal direction drilling (HDD) operations are underway near Ash Creek. Ensure that precautions are taken and considerations are made for slurry storage capacity during large storm events.



A bentonite reclamation machine has been set-up along Old Post Road/Fairfield Avenue. A roll-off dumpster has been placed to contain the processed material.