

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: February 7, 2008

Inspector: Gregory Sommer

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

Rain Event: 0.28” of precipitation was reported since the previous inspection, all of which was recorded on 2/2 (Bridgeport, CT NOAA data).

Areas of Inspection	Observation	Recommended Action	Corrected Action
Access Roads and Adjacent Roadways Saugatuck River	On the east side of the Saugatuck River, all equipment has been removed from the yard off Imperial Ave. and ruts were noted along the shoulder of the roadway. 2/7/08 The bituminous curb near the access driveway has been damaged by heavy truck traffic. 1/24-2/7/08	Continue to sweep the parking lot area as necessary. Restore rutted area and temporarily stabilize. Repair damaged curbing when work is complete. 2/7/08	Continue to monitor.
Ash Creek	A temporary work zone has been set-up along the south side of Post Road/ Fairfield Avenue as crews continue the HDD. 2/7/08	Continue to monitor for tracking or slurry residue. 2/7/08	Not Applicable (NA)
Housatonic River	A temporary staging area is in place on the west side of the Housatonic River in a parking lot behind a shopping plaza. A work area is also in place on the eastern bank. 2/7/08	Continue to monitor for tracking or slurry residue. See Erosion and Sediment Control section for more details. 2/7/08	NA
Vault Openings and Trench Construction Saugatuck River	HDD work on the Saugatuck River is complete. Final clean-up in the river is expected to take a couple more	Monitor and maintain sediment and erosion controls. 2/7/08	NA

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<p>Ash Creek</p> <p>Housatonic River</p>	<p>weeks. Booms remain in place. 2/7/08</p> <p>Drilling work has been completed at Ash Creek. Crews were fusing conduit and preparing to pull it through the boring. 2/7/08</p> <p>Drilling continues at the Housatonic River. Drilling rigs were set-up on both sides of the river to deal with the difficult material beneath the River. Divers continue to monitor the river. 2/7/08</p>	<p>Monitor and maintain sediment and erosion controls. 2/7/08</p> <p>Continue to 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 of the river. 2/7/08</p>	<p>NA</p> <p>NA</p>
<p>Erosion and Sediment Controls</p> <p>Saugatuck River</p>	<p>Any exposed soils have potential for airborne dust migration. Contractors are aware of the potential. 2/7/08</p> <p>On the west side of the Saugatuck River, hay bales and mulch remain in place around the drill pit. The silt fence along Lincoln St. still needs repair (since 12/31). 2/7/08</p> <p>Stone and geo-textile fabric remain in the park on the west side of the Saugatuck River near sta. #236 where vac trucks and other vehicles have access. Minimal sediment tracking was noted. 2/7/08</p> <p>On the east side of the Saugatuck River, the equipment has been removed from the staging area and the site has been partially restored. Hay mulch remains over the</p>	<p>Prevent dust migration by implementing the dust control measures. 2/7/08</p> <p>Continue to sweep the roadway as necessary. Repair damaged sections of silt fence or remove once drilling pit is backfilled and stabilized. 2/7/08</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. 2/7/08</p> <p>Continue to monitor and maintain the controls. Backfill and stabilize the drilling pit when feasible. Continue to provide restoration, include rutted areas. Also, see both the</p>	<p>NA at this time.</p> <p>Needs attention.</p> <p>NA</p> <p>Restoration needs to continue.</p>

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Ash Creek	<p>areas of exposed soils but ruts were noted in the shoulder of Imperial Ave. Chain link fence had been repositioned around the drilling pit. 2/7/08</p>	<p>Spills section and Storage section for additional information. 2/7/08</p>	
	<p>Two minor frac outs and resulting holes were observed (on land) between the access drive and drilling pit on the east side of the Saugatuck River. Fencing remains around this area. Both areas were full of water at the time of the inspection. 2/7/08</p>	<p>Properly contain and remove the material. Restore the area to pre-construction conditions. 1/24-2/7/08</p>	<p>Needs attention.</p>
	<p>Catch basins near Ash Creek have been protected and surrounded with hay bales. The overall work zone appeared to be well maintained. Minor amounts of mud and slurry material were observed over the surface of paved areas and along the curb line. 2/7/08</p>	<p>Continue to monitor and maintain sediment control measures. Contractors state the area is cleaned regularly as minor spills are common during active work. 2/7/08</p>	<p>NA at this time.</p>
Housatonic River	<p>Perimeter controls are in place around the work area on the west side of the Housatonic River. A dirt berm remains in place around the drilling pit. A minor amount of mud/slurry was observed over portions of the paved parking lot throughout the staging area. 1/31-2/7/08</p>	<p>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. Continue to clean any areas where incidental spills may have occurred due to construction activities. 1/24-2/7/08</p>	<p>Needs regular attention.</p>
	<p>On the east side of the river, the dirt berm around the drilling pit remains mulched, and hay bales were in place between the berm and the river. These sedimentation control measures appeared to be</p>	<p>Continue to monitor the area. Replace/secure controls as needed. 2/7/08</p>	<p>NA</p>

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	<p>functioning properly. 2/7/08</p> <p>A line of haybales remains in place along the eastern bank of the river. A large amount of slurry previously covered portions of the paved surfaces within the work area. The material has been cleaned up and the staging area was in good condition. 2/7/08</p> <p>On the east side of the Housatonic River, the dirt berm located adjacent to a resource area on the western side of the staging area remains mulched. However, there are no other controls between the berm and the resource area. 12/21-2/7/08</p>	<p>Continue to maintain controls to provide complete coverage and containment of the area. Continue to attend to spilled drilling slurry/mud on a regular basis. 2/7/08</p> <p>Add controls if necessary. Permanently stabilize area when feasible. 12/21-2/7/08</p>	<p>Crews removed the slurry/mud from the paved surface.</p> <p>Continue to monitor.</p>
<p>Inland Wetland and Watercourse encroachment and mitigation</p>	<p>The HDD of the Saugatuck River and associated wetlands in Westport is complete. Booms remain in the river to contain materials from previous frac-outs and full clean-up is supposed to be completed in several weeks. 2/7/08</p> <p>The HDD of Ash Creek and associated wetlands in Fairfield and Bridgeport is nearing completion. 2/7/08</p> <p>The HDD of the Housatonic River and associated wetlands in Stratford and Milford continues. 2/7/08</p> <p>On the east side of the Housatonic River, the berm along the west side</p>	<p>Continue to implement the approved monitoring plan for the crossing of the Saugatuck River provided in the D&M plan. 2/7/08</p> <p>Continue to implement the approved monitoring plan for the crossing of Ash Creek provided in the D&M plan 2/7/08</p> <p>Continue to implement the approved monitoring plan for the crossing of the Housatonic provided in the D&M plan. 2/7/08</p> <p>Install erosion control measures between the dirt berm and the adjacent</p>	<p>NA</p> <p>NA</p> <p>NA</p> <p>The berm was mulched, but additional controls</p>

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	<p>of the staging area has been mulched but there are no other controls between it and the adjacent resource area. 2/7/08</p>	<p>resource area if needed. See Erosion and Sedimentation Controls section for more details. 2/7/08</p>	<p>may still be needed.</p>
<p>Staging, Storage, and Parking Areas Saugatuck River</p>	<p>On the east side of the Saugatuck River, the equipment has been removed from the staging area and the area has been partially restored. Minor construction related debris (wooden stakes, metal banding, conduit sections, toed-in portions of silt fence, etc.) remains near the perimeter of the area. On the west side, the staging area remains in a church parking lot. 1/31-2/7/08</p> <p>Chain link fencing previously positioned around the perimeter of the staging area on the east side of the Saugatuck River along Imperial Ave. has been relocated to enclose the drill pit. The fencing had prevented vehicles from accessing the staging area directly from Imperial Ave. but now large ruts have formed in the shoulder. 2/7/08</p>	<p>See Erosion and Sedimentation Controls section for more details. Continue to restore staging areas and removing any remaining construction debris. Final restoration will mostly likely be on hold until after the vaults are installed and final connections are made. 1/31-2/7/08</p> <p>Re-grade rutted area and stabilize exposed soils. Coordinate efforts with contractor installing vaults and making the final connections. Temporary barriers may be recommended in this area to reduce vehicle traffic and tracking through this area. 2/7/08</p>	<p>NA at this time.</p> <p>Needs attention.</p>
<p>Ash Creek</p>	<p>A temporary work zone has been set-up along Post Road/ Fairfield Avenue on both sides of Ash Creek. 2/7/08</p>	<p>Contain all material within the established limits of work zone. 2/7/08</p>	<p>NA at this time.</p>
<p>Housatonic River</p>	<p>A staging area remains within a paved parking lot behind a plaza on the west side of the Housatonic River for the HDD activities. A drill pit/work area is also</p>	<p>Contain all material within the established limits of work zone. Further containment and planning may be necessary here. See erosion control and spills/material storage sections for</p>	<p>Continue to monitor.</p>

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	located to the east of the River within a paved access. 2/7/08	more details. 2/7/08	
Soils	<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. 2/7/08</p> <p>Drilling is complete at the Saugatuck River. The drilling pit was adequately sized and remains open on both sides of the river. 2/7/08</p> <p>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. 2/7/08</p> <p>Drilling is complete at Ash Creek. The drilling pit was adequately sized and remains open on both sides of the creek. 2/7/08</p> <p>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. 2/7/08</p>	<p>Monitor for dust as previously indicated. See the Spills and Material Storage section. 2/7/08</p> <p>Continue to monitor the amount of slurry/ runoff in drilling pit. Backfill the drilling pits as soon as feasible and stabilize the surface. 2/7/08</p> <p>Continue to provide soil stabilization. Restore the area to original conditions when access needs are complete. 2/7/08</p> <p>Continue to monitor the amount of slurry/ runoff in drilling pit. Backfill the drilling pit as soon after the conduit pull as feasible and stabilize the surface. 2/7/08</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. 2/7/08</p>	<p>NA</p> <p>Continue to monitor, needs attention when feasible.</p> <p>NA at this time.</p> <p>NA</p> <p>NA</p>
State species of concern, threatened and endangered species.	According to the D&M plan, state-listed species are not located in this work area 2/7/08	None. 2/7/08	NA
Vegetative clearing (including trees to save or danger trees noted) or stabilization	Although not marked on the D&M, a row of hedges/shrubs was removed (9/18/07) from	If shrubs were removed by the property owner prior to HDD work, then discuss and reach an agreement	Contractor states the property owner removed the shrubs. Needs evaluation

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	<p>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. 12/5/07-2/7/08</p> <p>Shrubs had previously been removed from the west side of the river near sta. #234+50 as per the D&M Plan. 2/7/08</p>	<p>with the property owner regarding the final restoration measures. 12/5/07-2/7/08</p> <p>When work is completed, restore the area as indicated in the D&M plan. 2/7/08</p>	<p>during restoration.</p> <p>NA at this time.</p>
Dewatering	Dewatering activities were not observed at the time of the inspection. 2/7/08	Continue to ensure that material is contained appropriately and treated according to the ground-water handling plan as referenced in the D&M. 2/7/08	NA
Blasting	No blasting has been proposed. 2/7/08	None 2/7/08	NA
<p>Spills and Material Storage</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. 2/7/08</p> <p>Spilled gel-max remains in the yard on the east side of the Saugatuck River. The area has been covered with mulch but the (non-toxic) material is evident from the slick surface beneath the hay. Small, new frac-outs were also observed near the drilling pit (since 1/24). 2/7/08</p> <p>A large bucket was placed under equipment here to catch drips. 2/7/08</p> <p>The large drill pit on the west side of the Housatonic River is intended to facilitate drilling activities and</p>	<p>Continue to bring spill kits to active work sites. 2/7/08</p> <p>Properly contain and remove the material. Restore the area to pre-construction conditions. 2/7/08</p> <p>Repair equipment and continue to keep containment measures in place. 2/7/08</p> <p>Continue to monitor the amount of slurry in relation to the size of the pit to ensure adequate storage capacity. Also consider</p>	<p>NA</p> <p>Needs attention.</p> <p>An equipment leak had been contained.</p> <p>Needs regular evaluation.</p>

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	<p>project sequencing. The contractor indicated that some slurry must remain in the pit overnight during cold weather to prevent the equipment from freezing. 2/7/08</p> <p>On the west side of the Housatonic River, absorbent material was spread over a spill/leak near the generator trailer last week. This week, a larger spill was noted in several other locations in the vicinity of the trailer. Additional absorbent material and booms were in place. 2/7/08</p> <p>On the west side of the Housatonic River, minor amounts of mud/slurry have been observed in portions of the paved parking lot throughout the work area. 2/7/08</p> <p>On the east side of the Housatonic River, the spilled slurry material has been cleaned up and the staging area was in good condition. 2/7/08</p>	<p>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 12/12/07-2/7/08.</p> <p>Continue to properly contain, clean, and dispose of the spill. Identify the source of the spill/leak and repair the equipment ASAP. 2/7/08</p> <p>Continue to clean any areas where incidental spills may have occurred due to construction activities. See Erosion and Sediment Controls section for more detail 2/7/08</p> <p>Continue to attend to spilled drilling slurry/mud on a regular basis. 2/7/08</p>	<p>Spill was addressed with absorbent materials but was larger this week. Needs additional attention.</p> <p>Needs regular attention.</p> <p>Crews removed the slurry/mud from the paved surface.</p>
<p>Additional Observations</p>	<p>The sandbags near Ash Creek had previously deteriorated as a result of the changing freezing/thawing temperatures. Many of the bags have been replaced to prevent the sand from spilling onto the pavement. 2/7/08</p> <p>On the east side of the Saugatuck River a broken light standard was observed near the entrance drive to the staging area where the</p>	<p>Continue to monitor and maintain. 2/7/08</p> <p>Replace the broken light standard as part of final restoration efforts. 1/31-2/7/08</p>	<p>Sandbags have been replaced.</p> <p>Needs attention.</p>

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	construction trailer had been previously located. 1/31-2/7/08		

Next likely scheduled inspection: Thursday, February 14, 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, a minor amount of incidental water/slurry was observed on the paved surface near the northeast corner of the staging area.



On the east side of the Housatonic River a haybale barrier remains in place near the end of the paved surface.



A spill/leak was observed near the generator trailer. Absorbent material appeared to be spread over most portions of the spill and absorbent booms were also utilized. Isolate the source of the spill/leak and provide containment and repair.





Crews at Ash Creek are fusing the final sections of conduit and preparing to pull the conduit through the boring.



At Ash Creek, a large bucket has been placed under a piece of equipment to contain any leaking fluids.



On the east side of the Saugatuck River, the drilling work has been completed and all of the equipment has been removed from the site. Heavy ruts were observed along the shoulder of Imperial Ave. (photo on the right). Chain link fencing was previously positioned in this area and had prevented vehicles from entering the staging area directly from Imperial Ave. The fence has since been relocated to around the drilling pits. (photo on the left).

