

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.

Segment 1a Inspection

Date: March 6, 2007

Inspector: Matthew Creighton

Location: Segment 1a – Scovill Rock Switching Station to Chestnut Junction, Oxbow Junction to Beseck Switching Station (excluding Royal Oak Bypass), and Black Pond Junction to Beseck Switching Station

Rainfall: Total of 2.64” rain recorded since the previous inspection with 2.61” of the total reported on 3/2 (NOAA data at Meriden, CT).

Areas of Inspection	Observation	Recommended Action	Corrected Action
Access roads and adjacent roadways	Access roads and stone tracking pads are in place at the ROW entrances. Associated roadways were free of project related sediment at this time. 3/6/07	Sweep the roadways and refresh stone as needed. Clean existing controls in CBs as necessary. 3/6/07	Not Applicable (NA)
All work areas (including Oxbow Junction, Black Pond, Little Lane, Contractor Receiving Yard, Rt. 17, Powder Hill Rd.)			
Oxbow Junction to Beseck SS	The pond adjacent to the access road has some haybales in place but more may be added to prevent sedimentation as needed, especially as work resumes. 3/6/07	Continue to add controls where needed, i.e. mulch, check dams, silt fence, to control sediment and prevent erosion. Clean roadway as needed. 12/5/06-3/6/07	NA
Haddam Quarter Rd. (Oxbow Junction) To Foot Hills Rd.			
Arbutus Street	The CB controls appear to be working properly. No sediment was noted in the wetlands at the outlet at the road. 3/6/07	Monitor access entrance and maintain CB controls when needed. 3/6/07	NA
	An access road is in place west of Arbutus. The portion crossing the edge of the wetland is constructed with timber mats. 3/6/07	Monitor controls and adjust as needed. 3/6/07	NA

Areas of Inspection	Observation	Recommended Action	Corrected Action
Black Walnut Dr.	The small, culverted wetland and stream crossing is complete as access road construction continues east. Controls are in place along the base of slope of the access road. Drainage ditches/ water bars were installed along the access road to direct run-off into haybales. 3/6/07	See erosion control section; continue to monitor this area carefully due to steeper slopes and adjacent wetlands. 3/6/07	Drainage ditches/ water bars were installed proactively to direct run-off from the access road into haybales.
Little Lane	Access road connecting Little Ln. to Rte. 17 was in place. Access includes timber mats and a (temporary) culvert to cross a section of wetlands and small stream. 3/6/07	Monitor activities and add controls, as needed. Culverts are temporary and the area will be restored at the completion of work. 3/6/07	NA
Cherry Hill Rd. (east)	An access road was being installed east of Cherry Hill Rd. to reach pad areas in the vicinity of the transfer station land. 3/6/07	Some steeper slopes were noted here, continue to watch for run-off or add controls as needed. 3/6/07	NA
Durham Rd.	No active access road construction was observed this week west of Durham Rd. Timber mats are in place for accessing pads in wetlands. 3/6/07	Clean/sweep Durham Rd. as needed. See erosion control section. 3/6/07	NA
Powder Hill Rd	Access road is in place east and west of Powder Hill Rd. as construction continues; Drainage ditches/ water bars were installed along the access road and directed to haybales. 3/6/07	Maintain and adjust controls as needed. Water flowing through the stone at the crossing was clear. 3/6/07	Drainage ditches/ water bars were installed proactively to direct run-off from the access road into haybales.
East of Beseck SS	Turbid water is settling along the silt fence near the riprap basin at the access road east of Beseck SS. Water is filtering through silt fence and slowly flowing into the	Monitor and adjust controls to continue filtering the turbid water. 3/6/07	NA

Areas of Inspection	Observation	Recommended Action	Corrected Action
Black Pond	<p>observed. Stream flow was also being rerouted during construction. 3/6/07</p> <p>No new work noted since the installation of the monopole. 3/6/07</p>	<p>Continue to monitor and add controls as needed. 3/6/07</p>	<p>NA</p>
<p>Erosion and sediment controls</p> <p>Oxbow Junction to Beseck SS Haddam Quarter Rd. To Foot Hills Rd.</p> <p>Arbutus Street</p> <p>Black Walnut Dr.</p> <p>Contractor Receiving Yard and Storage Area</p>	<p>Haybales were in place along the access road entrance near the pond. Erosion controls may still need to be extended to encompass more areas when work resumes here. 11/21/06-3/6/07</p> <p>No run-off was noted at this time but turbid run-off results after large storm events. 3/6/07</p> <p>Silt fence remains intact at work areas and along the access road, east and west of Arbutus. 3/6/07</p> <p>Fiber rolls/filter socks were extended along the base of slope of the access road at the wetland crossing. Water bars are re-directing turbid run-off into lines of staked haybales. Clear water was filtering from haybales and flowing off site. 3/6/07</p> <p>A few fiber rolls have been run over along the access drive. 2/12-3/6/07</p> <p>Silt fence and fiber rolls are in place at the perimeter of the yard and along drainage areas/swales but a few sections of silt fence are</p>	<p>More controls, i.e. mulch, check dams, silt fence, haybales, etc., may be needed to prevent erosion along the access road slopes and prevent sediment tracking onto Haddam Quarter Rd. 11/21/06-3/6/07</p> <p>Resource areas are not affected but consider adding controls or grading the access road to contain run-off. 3/6/07</p> <p>Monitor silt fence and wetlands for sediment. 3/6/07</p> <p>Continue to adjust controls as needed and ensure that the filter socks and drainage ditches are adequate to filter run-off. 3/6/07</p> <p>Repair/replace damaged fiber roll. 2/12-3/6/07</p> <p>Continue to add, maintain, and monitor controls as necessary. Silt fence should be repaired. 2/26-3/6/07</p>	<p>Continue to evaluate when work continues.</p> <p>NA</p> <p>NA</p> <p>Water bars and haybales were installed proactively.</p> <p>Needs repair when feasible.</p> <p>No sediment issues were noted but repair fence when feasible.</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p>North of Contractor Yard Along Rte. 17 and Little Lane</p>	<p>down. No sediment was noted leaving the site. 2/26-3/6/07</p> <p>Timber mats and a culvert are in place at the wetlands and stream crossing. Silt fence is in place along the mats and access pads where needed moving west along Little Ln. 3/6/07</p>	<p>Monitor and maintain controls, adjust as needed. 3/6/07</p>	<p>NA</p>
<p>Durham Rd.</p>	<p>Wetland crossings were in place west of Durham Rd. within the ROW. 3/6/07</p>	<p>Erosion controls may be needed along the edges of the new access road if sedimentation is noted Monitor surrounding wetlands closely. 3/6/07</p>	<p>Needs to be monitored</p>
<p>Cherry Hill Rd. (east)</p>	<p>A retaining wall and jersey barriers were installed at the pad site east of Cherry Hill Rd. Slopes are steep here. 3/6/07</p>	<p>Continue to monitor pad installation area for erosion along the steep slope. Install controls or stabilize as necessary. 3/6/07</p>	<p>NA at this time.</p>
<p>Powder Hill Rd.</p>	<p>Silt fence and timber mats are in place along the access road. Haybales remain at low, saturated spots. Filter socks are in place for additional control downgradient of smaller stream crossings. 3/6/07</p> <p>Water bars are re-directing turbid run-off into lines of staked haybales. Clear water was filtering from haybales and flowing off site. 3/6/07</p> <p>Several of the pads east of the roadway are along a steep slope and controls may be needed to prevent erosion. Existing vegetation and root masses currently stabilize</p>	<p>Controls should be monitored closely and maintained regularly. Adjust controls as necessary to prevent sediment from leaving the site or entering the pond. Stream crossings/culverts are temporary and will be removed at the end of the work. 3/6/07</p> <p>Continue to monitor run-off and ensure any turbidity or sediment does not reach wetlands. 3/6/07</p> <p>Watch for changes in run-off patterns that may affect neighboring properties. Temporary stabilization and controls may be needed around construction areas located</p>	<p>Needs to be monitored.</p> <p>Water bars and haybales installed proactively.</p> <p>Needs to be monitored</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p>East of Beseck SS</p>	<p>masses currently stabilize the slope but thaws will weaken soil structure. 2/20-3/6/07</p> <p>At the spot adjacent to the wetlands east of Beseck SS, fiber rolls (filter socks) remain downgradient of the timber mat pads. 3/6/07</p> <p>Drilling is occurring within the wetland east of Beseck SS. Slurry from the excavation was being trucked to an upgradient slope and spread. 2/26-3/6/07</p>	<p>construction areas located on this slope. 1/23/07-3/6/07</p> <p>Monitor controls closely within and adjacent to wetlands during drilling and as the ground thaws. Adjust and reinforce as necessary. 3/6/07</p> <p>Sedimentation was not observed but install controls downgradient or temporarily stabilize soils when feasible. 2/26-3/6/07</p>	<p>NA at this time.</p> <p>Needs proactive attention.</p>
<p>Black Pond Junction to Beseck SS ROW, North of Beseck SS to East Meriden Substation</p>	<p>Water bars are re-directing turbid run-off into lines of staked haybales. Clear water was filtering from haybales and flowing off site. 3/6/07</p> <p>Haybale and silt fence remain adjacent to the drilling near the pond north of Beseck. Some sediment was noted beyond the controls. 3/6/07</p> <p>Controls are being added along slopes and wetland areas. Filter socks are in place along the access road slopes. 3/6/07</p>	<p>Continue to monitor run-off and ensure any turbidity or sediment does not reach wetlands. 3/6/07</p> <p>Monitor controls and ensure that all dewatering slurry be adequately contained away from the wetlands. Stabilize or remove the sediment 3/6/07</p> <p>Continue to add controls as needed. Monitor controls for effectiveness. 3/6/07</p>	<p>Water bars and haybales were installed proactively.</p> <p>Needs proactive attention.</p> <p>Controls were added along the route as work progresses.</p>
<p>Fleming Road: north past East Meriden Substation to Black Pond</p>	<p>The edge of a work area/pad was being constructed within a stream channel. The stream has been redirected around the pad site through a riprap channel during construction. However, the site is generating turbid run-off from the</p>	<p>Provide temporary stabilization for the adjacent area. Divert runoff to haybales for filtration and consider placing filter socks in the stream channel if feasible. Add and maintain controls until the area is stabilized. 3/6/07</p>	<p>Needs attention.</p>

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	<p>fill activities which is reaching the re-routed stream downgradient. Turbidity was diluted by the time the flow reaches Black Pond. 3/6/07</p> <p>The banks and adjacent soil to the re-routed stream were exposed as well. 3/6/07</p> <p>Some stumps have been left along the banks of a pond in this section of ROW so the root system would help stabilize soils. 3/6/07</p>	<p>Provide temporary stabilization measures for adjacent soil in an effort to reduce turbidity. 3/6/07</p> <p>Continue to monitor and install additional stabilization measures as necessary. 3/6/07</p>	<p>Needs attention.</p> <p>Vegetation and stumps were retained to stabilize soil.</p>
<p>Inland Wetland and Watercourse encroachment and mitigation</p> <p>Most access areas (including ROW North of Beseck SS; Arbutus St.; Little Lane; Durham Rd.; Powder Hill Rd. Black Walnut Dr.)</p> <p>Oxbow Junction to Beseck SS Haddam Quarter Rd. To Foot Hills Rd.</p> <p>Contractor Storage Yard</p> <p>Durham Rd.</p>	<p>ACOE permit is in hand. 1/22/07</p> <p>A number of wetland crossings (via timber mats) were noted. Adjacent controls were installed. 3/6/07</p> <p>Sedimentation issues were not noted but additional controls may be needed to protect offsite and isolated wetlands when work resumes. 3/6/07</p> <p>Previous sedimentation has been noted within the wetlands and pond but ice and snow cover make observation difficult. The controls appear to be filtering turbid water flowing from the site. 3/6/07</p> <p>Access at Durham Rd reached a deeper area in</p>	<p>Perform work in wetlands under the permitted guidelines. 3/6/07</p> <p>Monitor closely for sedimentation and add controls as needed. All crossings are temporary and will require restoration at the end of the work. 3/6/07</p> <p>Caution should be taken not to fuel or store equipment near any wetlands. 3/6/07</p> <p>Continue to monitor. Adjust controls as needed around the site. 3/6/07</p> <p>Ensure that construction windows and access</p>	<p>NA</p> <p>NA</p> <p>NA</p> <p>NA</p> <p>NA at this time</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p>Powder Hill Rd.</p> <p>East of Beseck SS</p> <p>Black Pond Junction to Beseck SS Fleming Road: north past East Meriden Substation to Black Pond</p>	<p>the wetland that is difficult to cross. 3/6/07</p> <p>Several smaller streams also remain culverted. Water flowing off site was clear at this time. 3/6/07</p> <p>Timber mat staging areas are in and adjacent to wetlands. Drilling was occurring in the wetland and slurry was being removed to a slope upgradient. 2/26-3/6/07</p> <p>Pad site/work area installation is occurring within a stream. The flow is being re-routed through a riprap channel. This will likely occur in several locations along this section of ROW. Turbidity issues were noted here. 3/6/07</p>	<p>limitations continue to be upheld here. 3/6/07</p> <p>Continue to monitor and add controls as needed. All crossings are temporary and will require restoration at the end of the work 3/6/07</p> <p>Monitor drilling closely and adequately contain all slurry. 2/26-3/6/07</p> <p>Stabilize soils and install controls along the stream to protect wetlands and filter turbid run-off. See erosion control section for more details. 3/6/07</p>	<p>Wetlands crossings were constructed appropriately.</p> <p>Drilling will need close attention.</p> <p>Needs attention.</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 the current work areas. 3/6/07</p> <p>Potential habitat for wood turtles exists at Ball Brook in this section. Contractors were avoiding crossing this area by developing an access road in from Black Walnut Dr. 3/6/07</p>	<p>None. 3/6/07</p> <p>Nov. 1 is the start of the dormant season; contractors will not require training for mitigation until spring. Ball Brook is not scheduled to be accessed at this time. 3/6/07</p>	<p>NA</p> <p>Alternative access was being constructed to reach poles without crossing Ball Brook.</p>
<p>Vegetative clearing or stabilization</p> <p>Powder Hill Rd.; Little Lane; Durham Rd; Black Walnut Dr;</p>	<p>Now that ACOE permits have been obtained, clearing continues in several sections 3/6/07</p> <p>The clearing that had been performed for access road and pad construction is largely complete in these areas.</p>	<p>In all areas, be aware of limits of clearing and stick to the specifications of the D&M plan. 3/6/07</p> <p>Retain species approved by the D&M plan wherever feasible. Temporarily stabilize exposed soil as necessary,</p>	<p>NA.</p> <p>Needs to be monitored</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
ROW North of Beseck SS to Black Pond	<p>Many pad sites are along slopes and may have issues with erosion when the ground thaws fully. 3/6/07</p> <p>Clearing had been occurring here. Stumps were retained along the edge of the pond to stabilize soils. 3/6/07</p>	<p>especially in slope areas such as Beseck Mtn. 3/6/07</p> <p>Continue to further stabilize soils as necessary. See erosion control section. 3/6/07</p>	<p>Root systems were retained for soil stability.</p>
Dewatering Oxbow Junction to Beseck SS Powder Hill Rd.	<p>Dewatering was occurring at a foundation installation west off Powder Hill Rd. A large containment basin was in place for discharge water. Haybales were installed along the edge. 3/6/07</p>	<p>Continue to monitor the capacity of the sediment basin and add controls as needed. 3/6/07</p>	<p>Dewatering appears contained proactively within a basin.</p>
East of Beseck SS	<p>East of Beseck SS, drilling was occurring within the wetland. Slurry was being moved and spread upgradient on a slope. Controls were not in place in slurry containment area and sediment was on the access road. 2/26-3/6/07</p>	<p>It would be a better practice to place slurry into containment areas with controls. Stabilize soil or add controls at this area. 2/26-3/6/07</p>	<p>Better containment is needed.</p>
Black Pond Junction to Beseck SS North of Beseck SS to East Meriden Substation	<p>Dewatering has occurred and water was directed to a large, bermed containment basin and the several filter bags within it. The basin is surrounded by haybales and a secondary overflow basin was installed. 3/6/07</p> <p>Some dewatering slurry was observed beyond controls at the drill site near the pond north of Beseck. 3/6/07</p>	<p>Adjust controls as necessary. All slurry from dewatering and foundation installation appears to be contained at this location. Continue to provide adequate capacity and containment. 3/6/07</p> <p>See erosion control section for more details. Stabilize sediment or remove. 3/6/07</p>	<p>Needs to be monitored closely during drilling</p> <p>Needs proactive attention.</p>
Blasting	<p>No blasting is proposed. 3/6/07</p>	<p>None 3/6/07</p>	<p>NA</p>
Spills, soils and material storage	<p>Spill controls move from site to site with the</p>	<p>Always use spill control materials when working</p>	<p>NA</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
All active areas	equipment. 3/6/07	on equipment and during refueling 3/6/07	
Oxbow Junction to Beseck SS Black Walnut Dr.	Drilling and foundation work has resumed and concrete washout containment will be necessary. 3/6/07	Provide appropriate containment for washouts. Be especially careful of concrete containment near wetlands. 3/6/07	Needs regular attention
Contractor Receiving Yard and Staging Area	Some materials (structure components, equipment, etc.) are being stored and used here.	Continue to store materials away from resource areas.	NA
	Materials are being stored and structures staged in this area. Fuel tanks are in place on their stone spill control pad. Fire extinguishers and spill kits are located near the fuel tanks. 3/6/07	Always use spill control materials when working on equipment and during refueling. Continue to locate hazardous materials and equipment away from wetlands inlets such as culverts and CBs. when possible 3/6/07	A stone pad is in place for spill control
	All fuel nozzles on site were controlled. 3/6/07	Make sure all fuel nozzles are being properly stored after every use. 3/6/07	Nozzles were controlled
ROW near Beseck SS	Several drip stains have been noted on the stone pad at the refueling tanks. 1/22/07-3/6/07	Spill controls should always be used when equipment is leaking during refueling and equipment maintenance. 1/22-3/6/07	Contractors are looking into solutions here.
Black Pond Junction to Beseck SS	Foundation installation north and east of Beseck SS is adjacent to resource areas. Concrete used for testing has been dumped adjacent to the resource area. 3/6/07	Remove and dispose of concrete appropriately. Be especially careful of concrete containment near wetlands. 3/6/07	Needs attention.
Additional Observations	Debris (cardboard rolls from filter fabric) were noted along the ROW. 3/6/07	Continue to pick-up debris along the ROW on a daily basis as work progresses so that it is not forgotten later. 3/6/07	Needs general housekeeping when feasible.
	Non-project related debris (cups, pizza boxes, etc.) was noted off	Monitor and clean debris when in the area. 3/6/07	Non-project related debris noted.

Areas of Inspection	Observation	Recommended Action	Corrected Action
	Arbutus Street. 3/6/07		

Next likely scheduled inspection: Tuesday March 13, 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: Matthew Creighton, BSC Group

Reviewer: Diana Walden, BSC Group



Retaining wall installed along a steep slope at a new pad site in the vicinity of the transfer station land off Cherry Hill Rd.



Access road and pad grading in the vicinity of the transfer station land off Cherry Hill Rd. (and vicinity of proposed structures #24523-24)



View of access road leading to the culvert area off Black Walnut Dr. Filter socks were in place along the base of slope of the access road. Drainage ditches/waterbars leading to haybales were installed to direct and filter turbid run-off along the access road.



Access road and pad construction continue off Black Walnut Dr.



New haybales along the access road off Black Walnut Dr. Access is being installed in this section to reach structure locations to the east. This avoids crossing Ball Brook and associated habitat.



View of some of the erosion controls in place around the perimeter of the contractor receiving yard. Repair the individual sections of silt fence that require maintenance and replace the filter sock that was run over at the entrance.



Additional controls remain in place adjacent to wetlands to filter/contain turbid run-off leaving the site.



The fuel storage tanks remain in place on the stone spill pad and nozzles are contained. Small drip stains are noted and are contained to the stone.



Controls are stable off Black Pond following the installation of the monopole.



Wetland crossing off Powder Hill Road. No sediment or turbidity was observed coming from the stone crossing



Dewatering and foundation installation off Powder Hill Rd. Water appears to be well contained in a basin at this time.



Drainage ditch/water bar and haybales installed along the slope off Powder Hill Rd. Adjust controls as necessary.



Foundation drilling along the ROW east of Beseck SS. Controls were in place to prevent sediment from entering the wetlands.



Slurry from foundation drilling in the wetland was being trucked and placed on a slope upgradient. Stabilize soils or install controls as necessary to prevent sedimentation from migrating.



A dewatering basin with filter bags were in place north of Beseck SS.



North of Beseck SS: Controls remain in place after the foundation adjacent to the pond was drilled. Ensure that sediment is adequately contained.



Controls installed along the access road north of Beseck SS to E. Meriden SS. Continue to monitor to confirm filter socks will filter run-off adequately.



Stumps were left along the bank of a pond to maintain soil stability during clearing along the ROW from E. Meriden SS to Black Pond.



A streambed has been diverted through a riprap channel since pad workspace was necessary adjacent to the existing stream course in several locations between E. Meriden SS to Black Pond. Water in the channel was mainly clear with some suspended sediment.



The stream flow was picking up sediment and becoming turbid down-gradient of the diversion. Additional controls are needed (i.e. filter sock across the channel and temporary soil stabilization measures on the adjacent exposed soil and banks).