

AECOM

Daily Report

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| Project: | Durham Meadows Pipeline Installation | Date: | May 01, 2020 |
| Location: | Main Street and shared access road, Durham & Middletown, CT | Day of Week: | Friday |
| Project #: | AECOM: 6061487 | Report No: | 70 |
| Contractor: | Ludlow Construction | Page: | 1 of 10 |

Weather Conditions

Conditions: Daylight hours. 100% overcast. Winds variable 0-10 mph. Rain ended by 0800 hours. Rest of day no rain and modest temps.

Temperature (°F): High 75°F Low 48°F

| Contractors & Subcontractors Workforce | | | | Equipment in Use | | | |
|--|---|---|-----|-----------------------------------|---|---|-----|
| Trade | # | x | hrs | Trade | # | x | hrs |
| USACE | | | | Ludlow Construction | | | |
| Field Engineer | 1 | x | 8 | Superintendent | 0 | x | 8 |
| | | | | Safety Officer | 1 | x | 8 |
| | | | | Foreman | 1 | x | 8 |
| | | | | Dump truck Operator | 1 | x | 8 |
| | | | | Excavator Operator | 1 | x | 8 |
| | | | | Skid Steer/ Bucket Loader | 1 | x | 8 |
| | | | | Laborers | 6 | x | 8 |
| | | | | <i>Note that some persons</i> | | | |
| | | | | <i>Multiple pieces equipment.</i> | | | |
| | | | | | | | |
| | | | | Sub-contractor | 0 | x | 8 |
| | | | | Middletown Police Detail | 0 | x | 8 |
| | | | | State Police Detail | 0 | x | 8 |
| | | | | Type | # | x | hrs |
| | | | | Concrete/Asphalt Road Saw | 0 | x | 8 |
| | | | | Dump truck | 1 | x | 8 |
| | | | | Excavator – Large | 1 | x | 8 |
| | | | | Excavator - Mid-Size | 0 | x | 8 |
| | | | | Excavator - Rubber Wheeled – Rock | 0 | x | 8 |
| | | | | Skid Steer / Bucket Loader | 1 | x | 8 |
| | | | | Rolling Compactor | 1 | x | 8 |
| | | | | Plate Compactor | 0 | x | 8 |
| | | | | Jumping Jack Compactor | 0 | x | 8 |
| | | | | Street Sweeper (Broce Broom) | 0 | x | 8 |
| | | | | Material Hopper | 0 | x | 8 |
| | | | | Pipe saw | 0 | x | 8 |
| | | | | Light Tower | 0 | x | 8 |
| | | | | Dozer | 1 | x | 8 |

Visitors: None

Pipe Connections and Installations

Ludlow is currently at Station 174+43, which is roughly 50 feet shy of Talcott Road, in Durham Meadows, CT. There was not any trenching or pipe installation today on Main Street (Durham or Middletown) because the CT DOT road agent called road work off due to rain.

Compaction Testing

Compaction testing was not performed today.

Compaction Data for 4-30-20

| Station | Percent Compaction | Percent Moisture Content |
|------------------|--------------------|--------------------------|
| No Testing Today | NA | NA |

Additional Data

During travels along Main Street, it was noted that Durham Auto Center has excavated a hole on the north side of the building (unpaved area) and appears to have installed PVC drainage piping. There were also sump discharge hose coming out of the pit, though not currently running.

Res. Representative: W. Abrahams-Dematte **Date:** 05/01/2020

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Daily Activities – Pressure Testing

Ludlow continued pressure testing at multiple locations today. They included 132+32 (roughly Middletown/Durham Line) to 141+27 (Little Lane, Durham) and the Shared Access Road up Talcott Ridge Road (Middletown). Ludlow was also working on a section in Middletown from 128+80 to 132+32, which was having trouble maintaining pressure. Pete (Ludlow) thinks that the issue may be dirt in one of the 16" butterfly valves and is working out how to clear the issue.

Daily Activities – Pickett Lane

Pickett Lane was not in use today. Materials currently stored there are related to DIP being installed on Main Street, which didn't occur today.

Daily Activities – Shared Access Road

Ludlow continued to add to the road base going up the slope to the water tower. They also checked and reinforced weak spots in the silt fencing along the access road that showed stress from the recent rains overnight. All this was done while waiting for a shipment of 12" concrete drainpipe. The drainpipe arrived around 1230 hours. Ludlow unloaded the drainpipe and continued pipe installation to the upper drainage basin (also installed). They installed 56 feet of 12" concrete (RCP) pipe from Station 10+96 to 10+40 and then installed a catch basin at 10+40. NOTE: Pictures of silt fencing shown below are indicators of the few weakest spots or spots where there was trouble and repaired. This represents the entirety of the shared access road.

Daily Activities – Main Street, Middletown

The only activity was at 128+80, where Ludlow was trying to pressurize a short length of line to 132+32. They are having troubles with the pressure but believe that the issue is being caused by an improperly seated butterfly valve. They expect to be able to correct the situation and will inform John (Middletown Water) when a proper test can be completed.

Daily Activities – Main Street, Durham

The only activity on Main Street Durham today was a pressure test that was conducted from 132+32 (Middletown/Durham Line) to 141.27 (Little Lane, Durham). The test started at 0900 hours and ended at 1100 hours. Test passed. A pressure of 150 PSI was maintained throughout the test.

0745: On-site at 281 Main Street. Gearing up for work.

0800: Conversation with Mike C (Ludlow), CT DOT road agent called off work on Main Street due to weather. It is unclear why as the weather was reported to be clear all day and the morning rain had already stopped. Also, spoke with Bob C (USACE) about EPA wanting coverage of the Durham water line pressure test today.

0810: Drove over to review Pickett Lane laydown area. Site appears to be well maintained. No work will be occurring on Pickett Lane due to the shutdown on Main St.

0850: Met up with Pete (Ludlow) at Little Lane. Pete was pumping up the pressure from 148 to 150 PSI on the Durham water line test. He noted that the line was set to 150 PSI last night and lost only 2 PSI overnight. Test started at 0900 hours.

0930: Shared access road. Ludlow inspecting and reinforcing silt fencing and continuing work on the slope up to the water tower location. Still waiting for 12" concrete drainpipe to be delivered.

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1010: Conducted an inspection of the silt fencing along the access road from water tower location to large drain discharge. This area to the north side of the access road is the most likely to have issues due to the current grade and work. Observations show that the silt fencing is holding up well given the heavy downpour the previous evening. There was one area where a couple of silty puddles were noted outside, but after discussion with Ludlow, it appears that this was a troubled area that they had repaired. The puddles likely before the repairs. It was noted that 50 feet further on, by the large discharge, that there was no breakthrough and 100 feet down stream (to the north) in the drainage swale there was no indication of sediment.

1020: Ludlow assembling pressure test at 128+80 in Middletown. They are having trouble maintaining pressure in this stretch to 132+32, which they expect to be able to remedy.

1100: Little Lane, Durham (141+27). Water line test completed/Passed.

1200: Inspected the silt fencing along the rest of the shared access road. No issues noted. Some creative fencing in areas of culverts.

1230: Shared access road water line test passed. Information passed from John (Middletown Water).

1240: Trailer arrives with 12" concrete drainpipe.

1315: Off-site. End of day discussion with Billy (Ludlow), the 12" concrete drainpipe line was extended the rest of the way up the slope to a drainage basin that was also installed.

Payment Items:

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Picture 1: Pickett Lane laydown area.



Picture 2: Durham Auto Center 4" Sch35 Perforated PVC drainpipe being installed or repaired along north side of building. Drain hose seen to left, not currently flowing.

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Picture 3: Little Lane (141+27) Durham water line test station at 0900 and 1100 hours. 150 PSI maintained for two hours. Other end of test was at 132+32



Picture 4: View facing east on shared access road. Laying road base and compaction on slope up to water tower.

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Picture 5: View facing west from top of slope.



Figure 6: View facing east. Center of water tower grade stake.

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Figure 7: View facing northwest. Down arrow is the large culvert referred to in the following pictures. Up arrow is roughly 50 feet east of large culvert and is the other area referred to. Horizontal arrow is pointing to area approximately 100 feet down drainage to the north of the large culvert.



Figure 8: Potential issue Location A: Facing northeast. Approximately 50 feet east of large culvert. Small silt ponding behind silt fence. Trouble area reported by Ludlow and repaired/reinforced over last two days.

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Figure 9: Small silty puddle approximately 15 feet north of previous picture. Previous shot is to the left of this photo which faces west-southwest. Shared access road is seen in distance.



Figure 10: Facing south. Water flowing in drainage swale approximately 100 feet north of the Large culvert. Water is running clean with no indication of silt transport.

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Figure 11: Potential issue location B. Facing west and on the south side of the shared access road. Multilayer silt fence over small brook that runs through culvert under road.

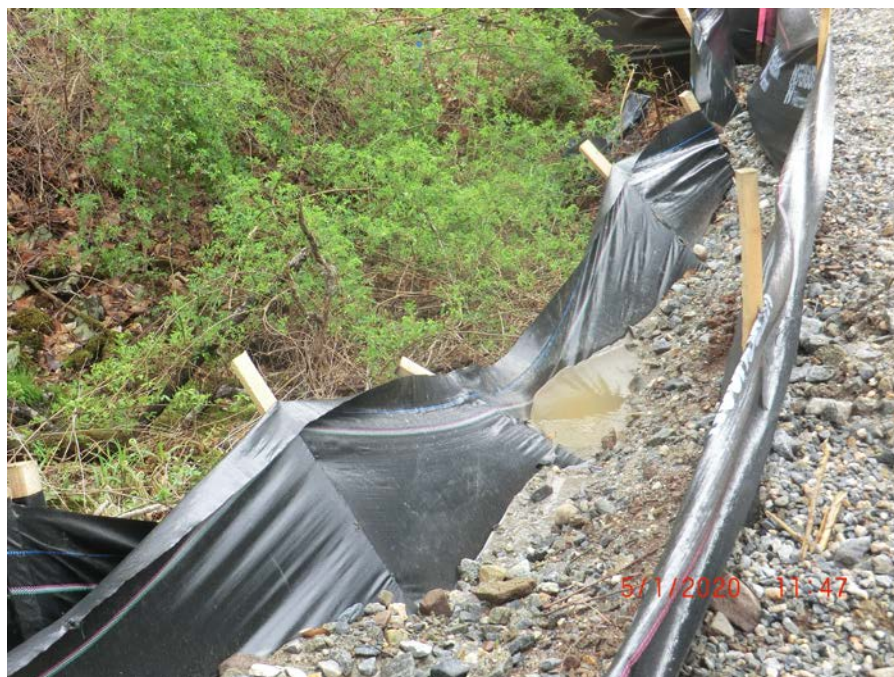


Figure 12: Close up of previous shot. Water could possible drain over. Not shown in shot is downhill side of this silt fence where clean filtered water drains down to brook.

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Figure 13: Potential issue location C. View from high point to low point (roughly halfway down access road). Note white piezometer(?) left of center in shot.

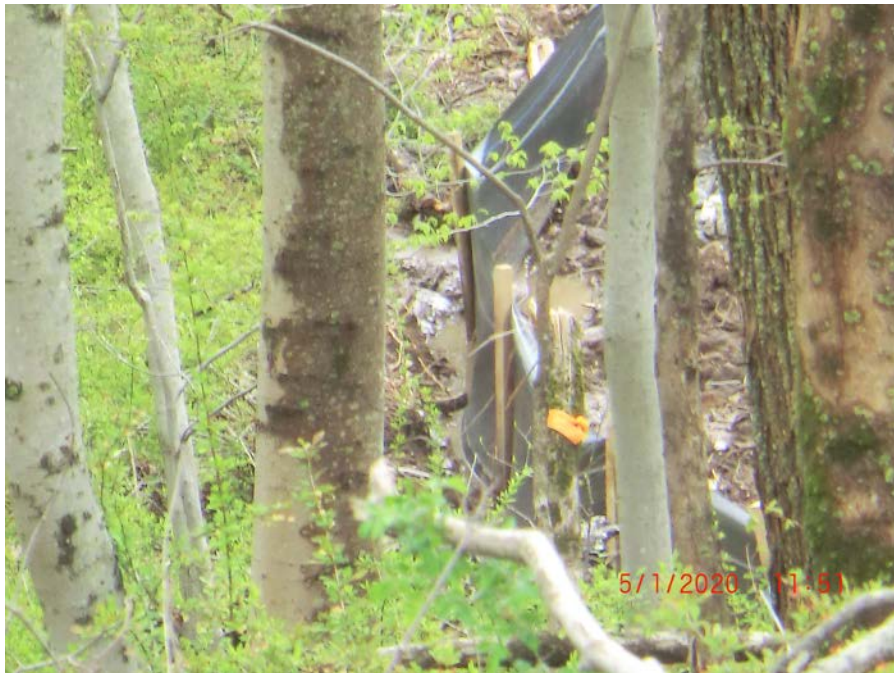


Figure 14: Super-zoomed shot of previous photo. Facing east. North side of road. Piezometer is to left of shot. What appears to be a small puddle behind the barrier. Many of these locations are difficult to get close to due to the depth of muddy soils from recent heavy rains. Figures 7-14 represent the three areas where there could be issues potentially and should be watched.

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