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Subject **Daily Monitoring Report**

Client Eversource Energy **Date** November 6, 2019

Project Independent Environmental Monitoring, Little Bay Submarine Cable Installation, Seacoast Reliability Project

Project No. E2X85301 **File** Daily Monitoring Report_SRP Little Bay IEM_Cable 3 Install Day 1 11-6-19

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Copies to Gregg Comstock, NH DES
 David Price, NH DES
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 Kurt Nelson, Eversource Energy

WEATHER OBSERVATIONS				
TIME	WIND (DIRECTION AND SPEED [KTS])	VISIBILITY (NM)	PRECIPITATION (PREV. 24H)	COMMENTS
07:00	10 W gust to 20	>5 NM	½"	37 °F; cloudy
13:00	12 W gust to 20	>5 NM	½"	48 °F; cloudy
16:00	6 NW gust to 15	>5 NM	½"	45 °F; cloudy

Summary of Work Activities (adopted from Durocher Marine Daily Report)

Activity	EDT	Marine Description
Cable Installation	700	Muster at Great Bay Marine. Daily operation and safety meeting.
	715	Arrive at barge
	817	IEM and Normandeau give approval to begin plowing operations. Station 398+87.
	830	Taking up on tow wire. Pumps to 1300 RPM.
	955	All stop on the plow, Total approx. dmg = 2785'.

	957	Resume plowing
	1011	Approx. DMG = 1132'
	1015	All stop, divers out of water and readjust positions to remove floats out of the boat due to lack of water. Pumps to an idle.
	1029	Pumps to 1300 RPM
Cable Installation	1050	All stop to move auxiliary barge. Work boats retrieve float bags. Reposition Hughes 2002 barge
	1108	Resume plowing
	1140	Down on the spuds to transition the pump barge underneath the stbd. stern anchor wire
	1141	Continue plowing towards the channel. Plow Station 416+98
	1155	Plow all stop, transition pump barge to Hughes 2002
	1255	End jet plow installation of western tidal flat. Durocher indicates that it will adjust port bow anchor and resume jet plow into the channel until the need for an anchor change. Station 41+875.
	1305	Pump barge tied along starboard side. Pumps to 1300 RPM. Up on the spuds, resume plowing.
	1324	3000' cable length at the chute
	1358	3500' cable length over the chute
Cable Installation	1403	All stop, prepare for anchor change. Notify DES/Normandeau that jet plow operations are complete for the day.
	1602	Diver in the water to perform routine inspection, before continuing plow operations tomorrow
	1611	Diver out of the water, cables all clear
	1626	End of Day
	1645	At the Dock

Summary of Observations

Item	Observations and Notes
1	Jet plow operations – Cable 3 (southern alignment) installation by jet plow across Little Bay western tidal flat. Begin plowing at approximately 0815. Work tug was not utilized to align cable. One work boat was used in a controlled manner to pull the “belly” of the cable to maintain alignment.
2	Water quality monitoring – Weather monitored since 72 hours before scheduled jet plow. No weather or wind concerns for IEM and WQ Team for scheduled Cable 3 installation across western tidal flat.

Turbidity Data Reports and Photographs

Turbidity (NTU) Reported and Observations

Boundary Station Action Levels (BSAL) reported by Normandeau at 0945.

Tidal: BSAL = 15 NTU

Channel: BSAL = 15 NTU

1300h – Normandeau reports 52 NTU at nearfield station (#12).



Jet plume observed from work boat on western tidal flat. Photo courtesy of Durocher Marine.

Turbidity (NTU) Reported and Observations



Cable 3 Installation. Cable with float bags tended to by divers and work boat removing bags prior to cable entering plow bell mouth. Pump barge tied to 2nd work boat and moved with jet plow progress. Small spud barge with mini excavator in the background was used to tether to the cable for alignment purposes.

Summary of Work Stops, Modification and Other Operational changes requested by the IEM during Operations

Item	
1	IEM instructed Eversource and Durocher about corrective action regarding all work vessel movements during Cable #3 Installation to minimize turbidity. IEM provided DES a list of corrective actions prior to the approval for Cable 3 operations. This message was reiterated to the Operations Team prior to and during Cable 3 Installation activities.
2	IEM contacts Normandeau and instructs them to keep vessels away from anchor wires and pump barge. One of the vessels lost GPS signal and could not locate water quality station and drifted into area of anchor wire and pump barge. Vessel was informed and recovered to its intended position. No incident resulting.

Action Items

Item	
1	Continue jet plow installation of channel on November 7, 2019. Day will start with a complete 4-anchor change prior to commencing jet plow.

I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my own 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.

Signed: _____  _____

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Dated: November 12, 2019