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Subject **Daily Monitoring Report**

Client Eversource Energy **Date** October 16, 2019

Project Independent Environmental Monitoring, Little Bay Submarine Cable Installation (Cable 1),
 Seacoast Reliability Project

Project No. E2X85301 **File** Daily Monitoring Report_Little Bay
 IEM_Cable 1 Install 10-16-19

Prepared by Jeffrey Nield **Phone No.** 617-963-3109

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

WEATHER OBSERVATIONS				
TIME	WIND (DIRECTION AND SPEED [KTS])	VISIBILITY (NM)	PRECIPITATION (PREV. 24H)	COMMENTS
07:00	W 5>	>5 NM	-	35° F, Mostly cloudy
15:00	ESE 10-15 G20	>5 NM	-	57° F, Cloudy. Tide - 6.8 feet high at 15:13. No precipitation; sea surface – choppy.
17:00	SSE 5-10 G15	>5 NM	-	57° F, Cloudy

Summary of Major Work Activities		Time/Notes
1	Mobilized to barge. Jet sled and anchor barge on tidal flat in position. Electrical and fiber optic cables anchored and floated.	07:10 – 12:30
2	Normandeau water quality team in place and conducting pre-plow monitoring. Cell phone and radio communication between IEM and Normandeau Onshore Data Coordinator operational.	13:00
3	Normandeau team ready to monitor and for jet plow to commence.	15:04
4	Jet plow pumps on at 15 – 20 p.s.i. Not pulling back.	15:25
5	Plow towing. Plow stopped.	15:52 – 16:00

Summary of Major Work Activities		Time/Notes
6	Durocher tethering to electric cable to pull straight with tug and work boats. Pumps on idle. No pulling back on sled.	16:00 – 18:10
7	Durocher halt operations for the day because of low tide on tidal flats.	18:10

Summary of Observations

Item	Observations and Notes
1	Jet Plow Set-up and preparation for installation – Jet plow and anchor barge in position on tidal flat. Cables floated with float bags. With incoming tide, tug and works moved to tidal flat to preparing for jet plowing. Normandeau reported concerns to IEM that work boats and tug were causing prop wash and turbidity that may negatively impact reference station water quality monitoring. Normandeau and IEM made request to Durocher Marine to advise work boat operators to slow down and be aware of water quality monitoring activity to decrease turbidity where possible.
2	Jet plow operations – Tidal current negatively effecting power cable and winch cable by pulling both out of alignment and causing possible abrasion of power cable by winch wire. Durocher attempting adjustments. Drone did not fly due to high winds and software operation issue associated with Pease air traffic control. No visual observations of plume. Reports of plume from start of jet plow from Normandeau. See turbidity reports below.

Turbidity Data Reports and IEM Actions/Responses

Turbidity (NTU) Reported	Time of Report	IEM Action/Response	Time of Response	Result
See below...				
Boundary Station Action Levels (BSAL) reported by Normandeau at 16:02				
Tidal: 90 th Percentile = 3.2 NTU; BSAL = 13 NTU				
Channel: 90 th Percentile = 3.8 NTU; BSAL = 14 NTU				

Turbidity (NTU) Reported	Time of Report	IEM Action/Response	Time of Response	Result

Reference data reported by Normandeau prior to the start of jet plow.

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Hour One Water Quality Turbidity Data Reports

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Hour Two Water Quality Turbidity Data Reports

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

Item	
1	Based on reports from Normandeu to IEM, the IEM made a request to Eversource and Durocher to instruct work boats to slow down and use caution to minimize turbidity especially during water quality monitoring and building the reference database (i.e., pre jet plow water quality monitoring period).

Action Items

Item	
1	Limited jet plow installation was accomplished. Second attempt for Cable #1 to occur on Thursday, October 17, 2019 depending on weather. IEM organized a conference call at 09:30 with NH DES, Eversource and Normandeu to discuss weather outlook and monitoring plans for the day.

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: October 17, 2019