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Subject	Daily Monitoring Report			
Client	Eversource Energy	Date	October 19, 2019	
Project	Independent Environmental Monitor Reliability Project	ing, Little Bay Subm	arine Cable Installation, Seacoast	
Project No.	E2X85301	File	Daily Monitoring Report_SRP Little Bay IEM_Cable Removal 10-19-19	
Prepared by	Jeffrey Nield	Phone No.	617-963-3109	
Copies to	Gregg Comstock, NH DES David Price, NH DES Chris Nash, NH DES Kurt Nelson, Eversource Energy			

WEAT	WEATHER OBSERVATIONS				
TIME	WIND (DIRECTION AND SPEED [KTS])	VISIBILITY (NM)	PRECIPITATION (PREV. 24H)	COMMENTS	
09:30	Variable	>5 NM	-	41 °F Sunny	
14:00	NW 6 gusts to 10	>5 NM	-	50 °F Partly cloudy, mostly sun	
17:00	NW 13 gusts to	>5 NM	-	52 °F mostly sunny	

#### Summary of Major Work Activities (Copied from Operational Log, Durocher Marine)

Activity	Time (EDT)	Marine Description
	700	MAP meeting at GBM
	725	Arrive at Hughes 2002 barge
Cable Installation	950	All personnel in position to continue plowing across channel
	1000	Pick spuds to align 2002 barge
		Move bow 20' south to plan line



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Summary of M	ajor Work A	ctivities (Copied from Operational Log, Durocher Marine)
	1016	Barge winches engaged, begin plowing
	1020	All stop to reposition the umbilical on plow
Cable Installation	1028	Resume plowing
	1032	Movement on the plow
	1144	GPS removed, switched to USBL
-		Spuds down to reposition the stern anchors
-		plow sta. 426+27
-		DMG 749'
	1240	Port Stern anchor reset complete
-	1320	Starboard Stern anchor reset complete
Cable Installation	1449	All anchors reset
-	1454	Up on the spuds, prepare to adjust barge and continue plowing
-	1508	plow sta. 426+43
-		barge at sta. 427+08
		setback at 53 ft.
	1612	14° roll, all stop on plow to let jets work into sand wave
	1617	Let jets work for 5 mins, roll still at 11°
	1618	Resume plowing
	1631	All stop to work through sand wave, 16° roll, 6° pitch
	1636	Resume plowing
_	1653	Setback to 61'
-	1709	All stop to adjust 2nd end cable on reel, adjust tieback and barge.



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lajor Work A	Activities (Copied from Operational Log, Durocher Marine)
1729	Resume plowing - plow sta. 434+94
1743	plow sta. 436+18
	barge sta. 436+80
1755	All stop to move forward anchors
1904	Anchor move complete, move two forward anchors
	Waiting on word from water sample crew to continue jet plowing
	30 mins per anchor to change out.
1926	Movement on plow, approx. 550' to go
1959	All stop to reinstall the R8 GPS antenna
2000	Plow at 60' setback
	Barge position at sta. 439+26
	plow 438+44
2014	Resume plowing
2040	All stop on anchors, moving plow setback from 70' to 55'
2045	Continue on anchors
2116	barge sta 441+97
2125	Plow grade out, barge all stop, pump to idle
	sta. 441+83 start
	sta. 442+22 stop, DMG 2344
2131	All stop on all equipment, spuds down, winches dogged
2145	End of Day
2155	At the dock
	1729 1743 1743 1755 1904 1926 1959 2000 2000 2000 2045 2116 2125 2116 2125



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CABLE #1 (North Alignment, Phase 3)							
DATE	DAY	CABLE INSTALL LENGTH	JET SLED BURIAL LENGTH	DIVER BURIAL	CONCRETE MATS	NOTES	
10/14/19	Mon	1870.0				Float cable from barge to jet sled. This section will be buried by jet sled.	
10/15/19	Tue	782.0				Pull cable from jet sled to riser structure includes 80' of slack for terminations.	
10/16/19	Wed		155.0			West tidal flats jet sled burial	
10/17/19	Thu		1170.0			West tidal flats jet sled burial	
10/18/19	Fri		670.0			West tidal flats jet sled burial	
10/19/19	Sat	2252.0	2344.0			Channel jet sled burial	
10/20/19	Sun						
10/21/19	Mon						
TOTAL	_S	4904.0	4339.0				
% COMP	LETE	82.9%	101.9%				
		Je	t Sled Buria	al Length		4260.0	

### Summary of Observations

Item	Observations and Notes
1	Jet plow operations – Resume Cable #1 installation where plowing left off on 10-18-19 on the western edge of the channel. Jet plow was winched to approximately 50' setback from barge with pump barge, dive barge and other work boats fastened to main barge. Anchor barge in center of channel, spuded down. Four-point anchor spread in use. One full anchor move and one-half anchor move completed using tug and work boats – no use of anchor barge. IEM tracking progress of plow with station numbers and Google Earth based survey markers.
2	<b>Water quality monitoring –</b> NH DES, IEM, Eversource and Normandeau conferred on Friday to discuss Saturday (10-18-19) planned operations. Parties agreed that water quality monitoring would continue as long as Normandeau boats could operate. With jet plow within viewing distance of barge, a localized plume was observed at the edge of



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Item	Observations and Notes
	the channel but became less visible with depth as plow progressed across the channel. No turbidity exceedances
	reported from water quality monitoring team.

#### **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		
Tidal: BSAL = 15 NTU				
Channel: BSAL = 16 NT	U			
Let sled approximately 5	C' of setback from cable ch	wite and barre. Plow is loca	the on the western side of	the channel in 3 – 5 feet
Jet sled approximately 5	0' of setback from cable ch	nute and barge. Plow is loca	ated on the western side of	the channel in 3 – 5 feet

of water. Slightly visible, localized plume near jet plow.



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Turbidity (NTU) Reported	Time of Report	IEM Action/Response	Time of Response	Result
		A second as		
	Official	1		
No. I				
IEM reports large (appro	x. 35-40 gallon plastic drur	n) in Little Bay directly in the	- e path of the barge and iet	plow. Durocher Marine

IEM reports large (approx. 35-40 gallon plastic drum) in Little Bay directly in the path of the barge and jet plow. Durocher Marine deployed workers to recover the drum. It was brought onboard and reused/disposed off.

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

Item	
1	No work modifications requested by the IEM due to water quality reports. IEM received regular reports from water
	quality monitoring onshore data coordinator.



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#### **Action Items**

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1	Completed installation of Cable #1 across channel. That completes jet plow installation of Cable #1. Following days involve bailing remainder for cable reel, attaching floats to cable and landing/pulling cable to the Gundalow (Newington, NH) side. Plan to begin Cable #2 installation from western tidal flat on Monday, start at 10:00 on 10-19-19 and complete installation across the channel.

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.

Heyd Hield

Signed: \_\_\_\_

Jeffrey Nield Independent Environmental Monitor 617-963-3109 jeffrey.nield@jacobs.com

Dated: October 23, 2019