## Weekly Field Report Week: 01-19-14 through 01-25-14 New Bedford Harbor Lower Harbor CAD Cell (LHCC)

This Weekly Field Report was prepared to serve as a summary of field activities conducted throughout the week for Phase I dredging of the New Bedford Harbor Lower Harbor CAD Cell (LHCC) in New Bedford, Massachusetts.

#### 1. Introduction:

The weekly field report describes the activities carried out by the Contractor (Cashman/Tripp Marine), the Owner's Representative (Apex Companies, LLC), and any subcontractors completing work within the scope of the project requirements.

This Weekly Field Report represents the twelfth Report associated with Phase I dredging of the LHCC in New Bedford Harbor, and the associated handling and disposal of dredged materials at CAD cells within the Harbor, and at designated open-water disposal sites approved for this Project.

This 12<sup>th</sup> Report for the LHCC dredging activities includes:

- Daily Inspection Reports from the dredging oversight performed during the week of January 19<sup>th</sup> through January 25<sup>th</sup>, 2014. Daily contractor activities are included in the form of Daily Inspection Reports noting equipment observed on site and a summary of contractor activities. (See Attachment 1);
- Water Quality Monitoring Forms completed for the week of January 19<sup>th</sup> through January 25<sup>th</sup>, 2014 are attached (See Attachment 2). Included with the attached forms is Figure 1 Lower Harbor CAD Cell Phase I Water Quality Monitoring Plan, which shows the locations of the water quality monitoring events conducted during this reporting period. Per the approved Water Quality Monitoring Plan and associated performance standards for the dredging efforts being conducted during this reporting period, Apex has:
  - Conducted water quality monitoring a minimum of one day per week, with the intent of monitoring the first three days of construction activities.
  - Performed visual inspections of dredged materials in the disposal scow for any visible debris or other items that could potential become a hazard to navigation prior to scow's departure for the offshore disposal site.

#### **Summary:**

The Contractor through its subcontractor, Tripp Marine conducted dredging at the LHCC January 24<sup>th</sup> and 25<sup>th</sup>. Dredging operations focused on the strategic removal of Phase I Bottom of CAD Cell sediments to open up a 125-foot wide deepwater access channel for larger barge mounted dredge equipment expected on site. During this reporting period dredging operations were conducted using a conventional digging bucket, with dredged materials being disposed offshore at the Rhode Island Sound Disposal Site (RISDS). Tripp Marine was observed conducting these activities during the authorized operational window of 7AM until sunset, utilizing a single dredge plant; the tug *Sand Pebble*; a 900 cubic yard dump scow – *TMC 140*; and two small utility boats. With time of year restrictions now in place (January 15<sup>th</sup> through June 15<sup>th</sup>) all dredging activities were conducted within a silt curtained perimeter surrounding the LHCC.

#### 2. Operational Notes:

#### **Dredging:**

Dredging of the Bottom of CAD materials at LHCC started this week on January 24<sup>th</sup>. Dredging operations focused on the strategic removal of Phase I Bottom of CAD Cell sediments to open up a 125-foot wide deep water access channel. Apex conducted two days of water quality monitoring while the bottom of CAD activities were being started to ensure that the activities did not result in an exceedance of any project-specific water quality standards. Water quality monitoring was completed January 24th and 25<sup>th</sup>, while dredging operations were occurring. Dredging operations were limited on the 25<sup>th</sup> due to high wind conditions.

#### Offshore Disposal:

Offshore disposal for Bottom of CAD sediments is scheduled and permitted for the Rhode Island Sound Disposal Site. No offshore disposal events occurred during the week of January 19<sup>th</sup> through January 25<sup>th</sup> due to limited dredging activities and weather conditions.

Table 1 – Cumulative Dredging Progress

Period of Activity	Volume (cy)
Approximate Top of CAD Volume Dredged to Date*	24,890
Approximate Bottom of CAD Volume Dredged this Reporting Period	600
Approximate Bottom of CAD Volume Dredged to Date*	600

<sup>\*</sup>Dredged volume quantities are estimated based on observed scow draft marks and an assumed density of the materials dredged. Given the uncertainty in the density of a composite mix of sediments being dredged, all volumes are confirmed and adjusted as necessary using bathymetric survey data

#### 3. Monitoring Summary

There were no water quality exceedances observed during this reporting period related to dredging operations. No water quality samples were collected.

Don Boyé

Prepared by:

Apex Companies, LLC

John B. McAllister, P.E.

Senior Project Engineer Senior Project Manager

# Attachment 1 Daily Inspection Reports



					-peci	tion Keport						
Inspector:	Chris Stillm	nan				_		Date	: 20 January	y 2014		
Contractor:	Tripp Mari	ine				Foreman/Supt: Tripp Pyne						
Weather	AM: PM:	Clear Cloudy				_ Temperature		AM: PM:	30 45			
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Problems/Issu	ies or Action	n Items:										
Visitors:												
Signature: Title: Copy to:	K Ryan file							Page	e: 20 January e:1of_ e: DIR_LHCC	1		
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Inspector:	C Stillman							Date	: 21 Januar	/ 2014		
Contractor:	Tripp Marine	e				Foreman/Supt: Pyne Tripp						
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Tides	High _ Low _		1054 0400		_AM _AM	2329 1616	_PM _PM					
Manpower O	nsite					Equipment O	nsite	)				
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Inspector:	K Ryan						Date	: 22 January	/ 2014		
Contractor:	Tripp Marine	: 			Foreman/Supt:		F	Pyne Tripp			
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Inspector:	C Stillman			_	Date	e: 23 January	/ 2014	_			
Contractor:	Tripp Marine	9		_Foreman/Supt	:	Pyne Tripp					
Weather	AM: PM:	Clear Clear		_ Temperature	AM: PM:	20					
Tides	High _ Low _	1217 0533	AM AM		_PM _PM						
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Problems/Issu	ies or Actior	ı Items:											
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Problems/Issu												
1328 talked with that they will no permitted to dis	t be able to	perform	n their	disposa	al until	01/28/2014 dı	ue to ir	nclen	•			led
Visitors:												
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.,						•						

## Attachment 2 Water Quality Monitoring Forms

PROJECT:	New Bedford Ha	arbor Lower Harbor C	AD Cell			
JOB NUMBER:	6724					
SURVEY DATE:	24 January 2014	ļ				
MONITORS:	M. Martinho					
WEATHER CONDITIONS:	Sunny / Clear	Low:	11	High:	15	
WIND CONDITIONS:	8	Speed: 5-10k	Direction: NW			
PRIOR STORM EVENTS:	N/A					
DREDGE / SCOW Position:	: Northing/Ea	sting:				
TYPE OF WATER QUALIT	Y MONITORING E	VENT: TOP CAD Dr	edging / BTM C	AD Dredging	/ Disposal	
TIDE INFORMATION:		High: 0104/1325	Low: 063	9/1847		
WAS WATER OUALITY OF	MDI INC DEDECT	DMED2 (VEC/NO).	N IFV	EC ATTACI	LCOC FORMS	



	N/A							_	
DREDGE / SCOW Position	n: Northing/Easting:							AF	
TYPE OF WATER QUALIT					ing / Disposa	I		/A I-	ハー X
TIDE INFORMATION:		0104/1325		0639/1847				_ / \	
WAS WATER QUALITY S					ACH COC FOR			-	
GENERAL NOTES:	Dredging begins at 12	UZ TOF BOLLO	in or CAD dredg	ing which con	itinuea untii 15	50			
					UP-CURRE	NIT			
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		1							
			TOTAL WATER	SAMPLE	TURBIDITY			RELATIVE POSITION	NUMBER OF HOURS
Monitoring ID #	NORTHING / EASTING	TIME	DEPTH (ft)	DEPTH (ft)	(NTUs)	GPS FILE NAME	TIDAL STAGE	OF MEASUREMENT	DREDGING
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012414-00-1-1 012414-00-1-4	2696535 / 815046	1200 1202	8.6	4	2.6 4	-	Flooding tide	200' S of Dredge	0
012414-00-1-8		1202	0.0	8	4.5	1	r looding ado	200 0 0. D.ougo	Ü
	•		AVERAGE		3.70				
						_			
012414-02-1-1	0007050 / 045440	1400	4	1	3.3	_			
012414-02-1-3	2697050 / 815113	1402	6.3	3	3.9	-	Ebbing	200' N of Dredge	2
012414-02-1-6		1404	AVERAGE	6	3.8 3.67				
			AVERAGE	I UNDIUIT I	3.07	_			
012414-04-1-1		1600		1	3.4				
012414-04-1-2.5	2697025 / 814980	1602	5.8	2.5	3.3		Ebbing	200' N of Dredge	4
012414-04-1-5		1604		5	3.2				
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		_			Down-Curi	ent_			
Monitoring ID #	NORTHING / FASTING	TIME	TOTAL WATER	SAMPLE	TURBIDITY		TIDAL STAGE	DISTANCE FROM	NUMBER OF HOURS
Monitoring ID #	NORTHING / EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)		ent GPS FILE NAME	TIDAL STAGE	DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
012414-00-9-1		1210	DEPTH (ft)	DEPTH (ft)	TURBIDITY (NTUs)			LOCATION	DREDGING
012414-00-9-1 012414-00-9-2.5	NORTHING / EASTING 2697051 / 815065	1210 1212		1 2.5	TURBIDITY (NTUs)  3.5  4.2		TIDAL STAGE Flooding tide		
012414-00-9-1		1210	DEPTH (ft)	1 2.5 5	3.5 4.2 4.6			LOCATION	DREDGING
012414-00-9-1 012414-00-9-2.5		1210 1212	6  AVERAGE	DEPTH (ft)  1 2.5 5 TURBIDITY:	3.5 4.2 4.6 4.10			LOCATION	DREDGING
012414-00-9-1 012414-00-9-2.5 012414-00-9-5		1210 1212 1214	DEPTH (ft)	DEPTH (ft)  1 2.5 5 TURBIDITY:	3.5 4.2 4.6 4.10 0.40			LOCATION	DREDGING
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012414-00-9-1 012414-00-9-2.5 012414-00-9-5 012414-02-9-1 012414-02-9-3 012414-02-9-5.5	2697051 / 815065 2696487 / 815217	1210 1212 1214 1214 1410 1412 1414 1610 1612	6 AVERAGE TURBIDITY  6.1  AVERAGE TURBIDITY  13.2  AVERAGE AVERAGE	DEPTH (ft)  1 2.5 5 TURBIDITY: INCREASE:  1 3 5.5 TURBIDITY: INCREASE:  1 4 6 12	TURBIDITY (NTUs)  3.5  4.2  4.6  4.10  0.40  4.2  4.4  4.4  4.33  0.67		Flooding tide  Ebbing	200' N of Dredge 200' S of Dredge	DREDGING  0
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012414-00-9-1 012414-00-9-2.5 012414-00-9-5 012414-02-9-1 012414-02-9-3 012414-02-9-5.5	2697051 / 815065 2696487 / 815217	1210 1212 1214 1214 1410 1412 1414 1610 1612	6 AVERAGE TURBIDITY  6.1  AVERAGE TURBIDITY  13.2  AVERAGE TURBIDITY	DEPTH (ft)  1 2.5 5 TURBIDITY: INCREASE:  1 3 5.5 TURBIDITY: INCREASE:  1 6 12 TURBIDITY: INCREASE:	TURBIDITY (NTUs)  3.5  4.2  4.6  4.10  0.40  4.2  4.4  4.4  4.4  5.4  5.5  5.3  5.40		Flooding tide  Ebbing	200' N of Dredge 200' S of Dredge	DREDGING  0
012414-00-9-1 012414-00-9-2.5 012414-00-9-5 012414-02-9-1 012414-02-9-3 012414-02-9-5.5	2697051 / 815065 2696487 / 815217	1210 1212 1214 1214 1410 1412 1414 1610 1612	DEPTH (ft)  6  AVERAGE TURBIDITY  6.1  AVERAGE TURBIDITY  13.2  AVERAGE TURBIDITY  AVERAGE TURBIDITY	DEPTH (ft)  1 2.5 5 TURBIDITY: INCREASE:  1 3 5.5 TURBIDITY: INCREASE:  1 6 12 TURBIDITY: INCREASE:  TURBIDITY: INCREASE:	TURBIDITY (NTUs)  3.5  4.2  4.6  4.10  0.40  4.2  4.4  4.4  4.4  5.4  5.5  5.3  5.40		Flooding tide  Ebbing	200' N of Dredge 200' S of Dredge	DREDGING  0
012414-00-9-1 012414-00-9-2.5 012414-00-9-5 012414-02-9-1 012414-02-9-3 012414-02-9-5.5	2697051 / 815065 2696487 / 815217	1210 1212 1214 1214 1410 1412 1414 1610 1612	6 AVERAGE TURBIDITY  6.1  AVERAGE TURBIDITY  13.2  AVERAGE TURBIDITY	DEPTH (ft)  1 2.5 5 TURBIDITY: INCREASE:  1 3 5.5 TURBIDITY: INCREASE:  1 6 12 TURBIDITY: INCREASE:  TURBIDITY: INCREASE:	TURBIDITY (NTUs)  3.5  4.2  4.6  4.10  0.40  4.2  4.4  4.4  4.4  5.4  5.5  5.3  5.40		Flooding tide  Ebbing	200' N of Dredge 200' S of Dredge	DREDGING  0
012414-00-9-1 012414-00-9-2.5 012414-00-9-5 012414-02-9-1 012414-02-9-3 012414-02-9-5.5	2697051 / 815065 2696487 / 815217	1210 1212 1214 1214 1410 1412 1414 1610 1612	DEPTH (ft)  6  AVERAGE TURBIDITY  6.1  AVERAGE TURBIDITY  13.2  AVERAGE TURBIDITY  AVERAGE TURBIDITY	DEPTH (ft)  1 2.5 5 TURBIDITY: INCREASE:  1 3 5.5 TURBIDITY: INCREASE:  1 6 12 TURBIDITY: INCREASE:  TURBIDITY: INCREASE:	TURBIDITY (NTUs)  3.5  4.2  4.6  4.10  0.40  4.2  4.4  4.4  4.4  5.4  5.5  5.3  5.40		Flooding tide  Ebbing	200' N of Dredge 200' S of Dredge	DREDGING  0
012414-00-9-1 012414-00-9-2.5 012414-00-9-5 012414-02-9-1 012414-02-9-3 012414-02-9-5.5	2697051 / 815065 2696487 / 815217	1210 1212 1214 1214 1410 1412 1414 1610 1612	DEPTH (ft)  6  AVERAGE TURBIDITY  6.1  AVERAGE TURBIDITY  13.2  AVERAGE TURBIDITY  AVERAGE TURBIDITY	DEPTH (ft)  1 2.5 5 TURBIDITY: INCREASE:  1 3 5.5 TURBIDITY: INCREASE:  1 6 12 TURBIDITY: INCREASE:  TURBIDITY: INCREASE:	TURBIDITY (NTUs)  3.5  4.2  4.6  4.10  0.40  4.2  4.4  4.4  4.4  5.4  5.5  5.3  5.40		Flooding tide  Ebbing	200' N of Dredge 200' S of Dredge	DREDGING  0
012414-00-9-1 012414-00-9-2.5 012414-00-9-5 012414-02-9-1 012414-02-9-3 012414-02-9-5.5	2697051 / 815065 2696487 / 815217	1210 1212 1214 1214 1410 1412 1414 1610 1612	6 AVERAGE TURBIDITY  6.1  AVERAGE TURBIDITY  13.2  AVERAGE TURBIDITY  AVERAGE TURBIDITY  AVERAGE TURBIDITY	DEPTH (ft)  1 2.5 5 TURBIDITY: INCREASE:  1 3 5.5 TURBIDITY: INCREASE:  1 1 6 12 TURBIDITY: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE:	TURBIDITY (NTUs)  3.5  4.2  4.6  4.10  0.40  4.2  4.4  4.4  4.4  5.4  5.5  5.3  5.40		Flooding tide  Ebbing	200' N of Dredge 200' S of Dredge	DREDGING  0
012414-00-9-1 012414-00-9-2.5 012414-00-9-5 012414-02-9-1 012414-02-9-3 012414-02-9-5.5	2697051 / 815065 2696487 / 815217	1210 1212 1214 1214 1410 1412 1414 1610 1612	6 AVERAGE TURBIDITY  6.1  AVERAGE TURBIDITY  13.2  AVERAGE TURBIDITY  AVERAGE TURBIDITY  AVERAGE TURBIDITY	DEPTH (ft)  1 2.5 5 TURBIDITY: INCREASE:  1 3 5.5 TURBIDITY: INCREASE:  1 1 6 12 TURBIDITY: INCREASE: INCR	TURBIDITY (NTUs)  3.5  4.2  4.6  4.10  0.40  4.2  4.4  4.4  4.4  5.4  5.5  5.3  5.40		Flooding tide  Ebbing	200' N of Dredge 200' S of Dredge	DREDGING  0

\* Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

PROJECT:	New Bedford Harbor L	ower Harbo	or CAD Cell						
JOB NUMBER:	6724							•	
SURVEY DATE: MONITORS:	25 January 2014 K. Ryan, J. Thompson							-	
WEATHER CONDITIONS:	Rain/Snow Mix	Low:	12	High:	39				EX
WIND CONDITIONS:	Speed:	15-20k	Direction:						
PRIOR STORM EVENTS:	N/A								
DREDGE / SCOW Position TYPE OF WATER QUALIT		. TOP CAD	Drodging / PT	M CAD Drodgi	ing / Dispose			ΛГ	
TIDE INFORMATION:		0200/1425		0758/1956	ilig / Dispusa			/ <del>-\</del>  -	
WAS WATER QUALITY SA				IF YES, ATTA	CH COC FOR	MS		,	
GENERAL NOTES:	Dredging begins at 121	15 for Bottor	n of CAD dredgi	ng, which con	tinued until 12	252, after which a	activities stopped due to high wind co	onditions.	
					UP-CURRE	<u>NT</u>			
Monitoring ID #	NORTHING / EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	RELATIVE POSITION OF MEASUREMENT	NUMBER OF HOURS DREDGING
012514-00-1-1		1235		1	4.5				
012514-00-1-4	2696511 / 815138	1237	8.4	4	4.2		Flooding tide	200' S of Dredge	0
012514-00-1-8		1239		8	7				
			AVERAGE 1	URBIDITY:	5.23	1			
	-								
	]								
			AVERAGE 1	TURBIDITY:	l	J			
	<u> </u>		AVERAGE 1	TURBIDITY:		<u> </u>			
			1		I			1	
						1			
	_		AVERAGE 1	URBIDITY:		<u> </u>			
			1						
			AVERAGE 1	URBIDITY:					
					,	_			
					Down-Curr	ent			
Monitoring ID #	NORTHING / EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
012514-00-9-1	0007400 /04500=	1245		1	4.9		Electric 21	000111-12	
012514-00-9-3 012514-00-9-6	2697133 / 815207	1247 1249	6.4	3 6	7.8 6.6	1	Flooding tide	200' N of Dredge	0
012014-00-9-0		1249	AVERAGE 1		6.6		<u> </u>	1	
			TURBIDITY		1.20	]			
			AVERAGE 1	I IDDIDITY.					
			TURBIDITY			<u> </u>			
			AVERAGE 1	I IDDIDITY:					
			TURBIDITY			j			
	4					4			
			AVERAGE 1	TURBIDITY:			l		
			TURBIDITY			1			
	<u> </u>							[	
	1		1			1			
			AVERAGE 1			4			
l			TURBIDITY	INCKEASE:					

## Figure 1 Lower Harbor CAD Cell Phase I – Water Quality Monitoring

