

Weekly Field Report

Week: 11-03-13 through 11-09-13
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 first 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 first Report for the LHCC dredging activities includes:

- Daily Inspection Reports from the dredging oversight performed during the week of November 3rd through November 9th. 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 November 3rd through November 9th are attached (Attachment 2). Per the approved Water Quality Monitoring Plan and associated performance standards for this dredging effort APEX will;
 - Conduct three consecutive water quality monitoring events in the first week of dredging, and thereafter two days per week until Phase I dredging of the LHCC has been completed.
 - Conduct water quality monitoring of each disposal event into either the existing CAD Cell #2 or CAD Cell #3 of Top of LHCC sediments removed by this Project.
 - Perform a visual inspection of dredged materials in the disposal scow prior to disposal to ascertain the effectiveness of dewatering. If deemed necessary by the visual inspection, APEX will monitor the water quality of the effluent discharge from the carbon filtration system.

2. Summary:

The Contractor, through its subcontractor, Tripp Marine, commenced dredging at the LHCC on November 8th and November 9th, 2013, with dredging operations focused on the removal of Phase I Top of CAD cell sediments and the disposal of these sediments into CAD Cell #3. 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 a small utility boat. Tripp Marine is utilizing the Cashman dewatering barge as a staging area for dewatering operations and as an aide in accurately positioning the dump scow for disposal operations into CAD Cell #3. Dredging operations were conducted without the use of silt curtains because these activities lie outside the time of year restrictions noted in the Project Specifications.

3. Operational Notes:

Dredging:

Dredging at the LHCC began on Friday, November 8th with the actual dredge activities commencing around 10:15 a.m. Water quality monitoring, required on the first three days of dredging at the LHCC, was completed on the 8th and 9th, with the third day requirement expected to be completed during the next reporting period. After completing the first three monitoring events, monitoring of dredging activities will continue on a schedule of two events per week.

Disposal:

Disposal of “Top of LHCC” sediments began on November 9th. Based on scow logs for the *TMC 140*, approximately 800 cubic yards of material was placed into CAD Cell #3 during this first disposal event. Sediments contained in the scow were inspected prior to disposal to assess the effectiveness of dewatering. Water quality monitoring, required for each CAD Cell disposal event, was also completed on November 9th.

4. Monitoring Summary

There were no water quality exceedances observed during this reporting period related to either dredging or disposal operations. There was one instance related to the outwash from the tug *Sand Pebble* which resulted in a minor turbidity plume while maneuvering the dredge plant into position on November 8th. This plume quickly subsided and the project was in compliance of the water quality performance standards within the required 30 minutes after the dredge was set in position and the tug was no longer pushing.

No water quality samples were collected during this reporting period.

Attachment 1
Daily Inspection Reports



City of New Bedford Harbor Development Commission
New Bedford Harbor USEPA Lower Harbor CAD Cell
CFDA No.: 66.802

Inspection Report

Inspector: D. Boye (APEX) **Date:** 8-Nov-13

Contractor: Tripp Marine **Foreman/Supt:** Pyne Tripp

Weather AM: Clear, winds NW 5-10 k **Temperature** AM: 33
PM: Ptly. Cloudy, winds NW 10-20+ k PM: 52

Tides High 1127 AM 2356 PM
Low 0407 AM 1715 PM

Manpower Onsite

Foreman 1 @ 10 Hrs
Operators 1 @ 10 Hrs
Laborers 2 @ 10 Hrs
Drivers @ Hrs

Other: @ Hrs

Equipment Onsite

Description: Scow TMC 140 Hrs. 10
Push boat Sand Pebble Hrs. 10
Support Boat Hrs. 10
Dredge Plant Hrs. 10
 Hrs.

Contractor Activities: (Attach Additional Sheets as Necessary)

APEX monitoring team on-site at 0645. Dredge plant maneuvered into position at 0830. Scow TMC 140 maneuvered into position alongside dredge at 0920 with scow drafts recorded as 2.5' fore/aft. Dredging began at 1015. Dredging stops for the day at 1542. End of day scow draft marks were 8.5' forward and 9.5' aft. Fully loaded scow repositioned to dewatering area at 1620.

Problems/Issues or Action Items:

Dredging interrupted at 1020. Tripp Marine collected push probes to better understand sediment conditions in the surrounding area. Dredge repositioned further towards west and resumed dredging at 1130.

Vistors:

Signature: D. Boye

Title:

Copy to: file

Date: 8-Nov-13

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File: DIR_LHCC_110813



City of New Bedford Harbor Development Commission
New Bedford Harbor USEPA Lower Harbor CAD Cell
CFDA No.: 66.802

Inspection Report

Inspector: M. Tumulo (APEX) **Date:** 9-Nov-13

Contractor: Tripp Marine **Foreman/Supt:** Pyne Tripp

Weather	AM:	<u>Clear, winds WNW 10k</u>	Temperature	AM:	<u>39</u>
	PM:	<u>Cloudy, winds W 15-20k</u>		PM:	<u>45</u>

Tides	High	<u> </u>	AM	<u>1226</u>	PM
	Low	<u>0510</u>	AM	<u>1830</u>	PM

Manpower Onsite

Foreman 1 @ 10 Hrs
Operators 1 @ 10 Hrs
Laborers 2 @ 10 Hrs
Drivers @ Hrs

Other: @ Hrs

Equipment Onsite

Description:	<u>Scow TMC 140</u>	Hrs. <u> 10 </u>
	<u>Push boat Sand Pebble</u>	Hrs. <u> 10 </u>
	<u>Support boat</u>	Hrs. <u> 10 </u>
	<u>Dredge Plant</u>	Hrs. <u> 10 </u>
	<u> </u>	Hrs. <u> </u>

Contractor Activities: (Attach Additional Sheets as Necessary)

APEX monitoring team on-site at 0705. Scow TMC 140 was inspected and contents were approved for CAD cell disposal. Scow was discharged into CAD Cell #3 at 0800 and dredging at LHCC resumes. Initial scow draft marks were 2.5' fore/aft. Dredging continued until 1345 at which time the scow was repositioned to the dewatering area. End of day scow draft marks were 7' forward and 6.5' aft. APEX departed site at 1630.

Problems/Issues or Action Items:

None / n/a.

Vistors:

Signature: M. Tumolo (APEX)
Title:
Copy to: file

Date: 9-Nov-13
Page: 1 of 1
File: DIR_LHCC_110913

Attachment 2
Water Quality Monitoring Forms

PROJECT:	New Bedford Harbor Lower Harbor CAD Cell	
JOB NUMBER:	6724	
SURVEY DATE:	08-November-2013	
MONITORS:	D.Boye, M.Tumolo, A. Hart	
WEATHER CONDITIONS:	Clear skies early, pty. Cloudy through the day. Temperatures 33F to 52F	
WIND CONDITIONS:	Speed: 10-20 k	Direction: NW
PRIOR STORM EVENTS:	N/A	
DREDGE / SCOW Position:	Easting/Northing: 815370 / 2696708	
TYPE OF WATER QUALITY MONITORING EVENT:	TOP CAD Dredging / BTM CAD Dredging / Disposal	
TIDE INFORMATION:	High: 1127	Low: 1715
WAS WATER QUALITY SAMPLING PERFORMED? (YES/NO):	NO IF YES, ATTACH COC FORMS	
GENERAL NOTES:	First Day of LHCC CAD Cell dredging. Dredge monitoring only. Dredging being performed with an environmental bucket.	



UP-CURRENT

Monitoring ID #	EASTING/ NORTHING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	RELATIVE POSITION OF MEASUREMENT	NUMBER OF HOURS DREDGING
110813-00-1-1	815216, 2696194	1020	19	1	3.22		Flooding tide	200' S of Dredge	0
110813-00-1-10		1022		10	2.34				
110813-00-1-16		1024		16	2.57				
AVERAGE TURBIDITY:					2.71				
110813-02-1-1	814687, 2696890	1220	24	1	3.69		Ebbing	200' N of Dredge	2
110813-02-1-12		1222		12	4.39				
110813-02-1-22		1224		22	4.44				
AVERAGE TURBIDITY:					4.17				
110813-04-1-1	814675, 2696869	1420	22	1	3.97		Ebbing	200' N of Dredge	4
110813-04-1-11		1422		11	3.97				
110813-04-1-20		1424		20	7.85				
AVERAGE TURBIDITY:					5.26				
110813-06-1-1	814617, 2696807	1555	21	1	4.65		Ebbing	200' N of Dredge	6
110813-06-1-10		1557		10	4.43				
110813-06-1-19		1559		19	6.22				
AVERAGE TURBIDITY:					5.1				
AVERAGE TURBIDITY:									

Down-Current

Monitoring ID #	EASTING/ NORTHING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
110813-00-9-1	815369, 2696931	1031	29	1	13.4		Flooding tide	200' N of Dredge	0
110813-00-9-13		1033		13	13.4				
110813-00-9-28		1035		28	8				
			AVERAGE TURBIDITY:		11.60				
			TURBIDITY INCREASE:		8.89				
110813-02-9-1	815014, 2696365	1230	10	1	2.62		Ebbing	200' S of Dredge	2
110813-02-9-5		1232		5	2.45				
110813-02-9-9		1234		9	2.41				
			AVERAGE TURBIDITY:		2.49				
			TURBIDITY INCREASE:		-1.68	* Tug activity in channel elevated reference			
110813-04-9-1	814891, 2696323	1430	12	1	20.7		Ebbing	200' S of Dredge	4
110813-04-9-5		1432		5	16.7				
110813-04-9-10		1434		10	23.8				
			AVERAGE TURBIDITY:		20.40				
			TURBIDITY INCREASE:		15.14				
110813-06-9-1	814617, 3696907	1605	17	1	18.4		Ebbing	200' S of Dredge	6
110813-06-9-4		1607		4	22.2				
110813-06-9-8		1609		8	22.5				
			AVERAGE TURBIDITY:		21.03				
			TURBIDITY INCREASE:		15.93				
			AVERAGE TURBIDITY:						
			TURBIDITY INCREASE:						

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

PROJECT:	New Bedford Harbor Lower Harbor CAD Cell	
JOB NUMBER:	6724	
SURVEY DATE:	09-November-2013	
MONITORS:	M. Tumulo, K. Miller	
WEATHER CONDITIONS:	Clear early, clouding over in the afternoon. Temperature 39F to 45F	
WIND CONDITIONS:	Speed: 10-20k	Direction: WNW
PRIOR STORM EVENTS:	N/A	
DREDGE / SCOW Position:	Easting/Northing:	
TYPE OF WATER QUALITY MONITORING EVENT:	TOP CAD Dredging / BTM CAD Dredging / Disposal	
TIDE INFORMATION:	High: 1226	Low: 0510/1830
WAS WATER QUALITY SAMPLING PERFORMED? (YES/NO):	NO IF YES, ATTACH COC FORMS	
GENERAL NOTES:	Dredge material disposal monitoring at CAD Cell #3. Dredge performance monitoring afterwards. Dredging being conducted with an environmental bucket.	



UP-CURRENT

Monitoring ID #	EASTING/ NORTHING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	RELATIVE POSITION OF MEASUREMENT	NUMBER OF HOURS DREDGING
110913-00-1-1	814673, 2696083	0820	32	1	4.39		Flooding tide	200' S of Dredge	0
110913-00-1-16		0822		16	4.34				
110913-00-1-30		0824		30	4.46				
AVERAGE TURBIDITY:		4.40							
110913-02-1-1		1000	32	1	3.88		Flooding tide	200' S of Dredge	2
110913-02-1-16		1002		16	3.94				
110913-02-1-30		1004		30	3.84				
AVERAGE TURBIDITY:		3.89							
110913-04-1-1	814767, 2696275	1200	28	1	3.67		Flooding tide	200' S of Dredge	4
110913-04-1-14		1202		14	4.05				
110913-04-1-27		1204		27	2.8				
AVERAGE TURBIDITY:		3.51							
110913-06-1-1	814923, 2697108	1400	10	1	3.75		Ebbing	200' N of Dredge	6
110913-06-1-5		1402		5	3.92				
110913-06-1-9		1404		9	4.3				
AVERAGE TURBIDITY:		3.99							
110913-08-1-1	814943, 2697130	1615	14	1	3.33		Ebbing	200' N of Dredge	8
110913-08-1-4		1617		4	2.64				
110913-08-1-7		1619		7	2.68				
AVERAGE TURBIDITY:		2.88							

Down-Current

Monitoring ID #	EASTING/ NORTHING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
110913-00-9-1	814744, 2697099	0830	16	1	6.36		Flooding tide	200' N of Dredge	0
110913-00-9-8		0832		8	4.56				
110913-00-9-15		0834		15	5.75				
				AVERAGE TURBIDITY:	5.56				
			TURBIDITY INCREASE:		1.16				
110913-02-9-1		1000	12	1	4.42		Flooding tide	200' N of Dredge	2
110913-02-9-5		1002		5	4.48				
110913-02-9-10		1004		10	4.14				
				AVERAGE TURBIDITY:	4.35				
			TURBIDITY INCREASE:		0.46				
110913-04-9-1	814948, 2697072	1200	9	1	6.43		Flooding tide	200' N of Dredge	4
110913-04-9-4		1202		4	6.02				
110913-04-9-8		1204		8	5.71				
				AVERAGE TURBIDITY:	6.05				
			TURBIDITY INCREASE:		2.55				
110913-06-9-1	814923, 2697108	1410	10	1	4.24		Ebbing	200' S of Dredge	6
110913-06-9-5		1412		5	3.93				
110913-06-9-9		1414		9	3.32				
				AVERAGE TURBIDITY:	3.83				
			TURBIDITY INCREASE:		-0.16				
110913-08-9-1		1625	28	1	3.02		Ebbing	200' S of Dredge	8
110913-08-9-4		1627		14	4.32				
110913-08-9-7		1629		24					
				AVERAGE TURBIDITY:	3.67				
			TURBIDITY INCREASE:		0.79				

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

PROJECT:	New Bedford Harbor Lower Harbor CAD Cell		
JOB NUMBER:	6724		
SURVEY DATE:	09-November-2013		
MONITORS:	M. Tumulo, K. Miller		
WEATHER CONDITIONS:	Clear early, clouding over in the afternoon. Temperature 39F to 45F		
WIND CONDITIONS:	Speed: 10-20k	Direction: WNW	
PRIOR STORM EVENTS:	N/A		
DREDGE / SCOW Position:	Easting/Northing:		
TYPE OF WATER QUALITY MONITORING EVENT: TOP CAD Dredging / BTM CAD Dredging / Disposal			
TIDE INFORMATION:	High: 1226	Low: 0510/1830	
WAS WATER QUALITY SAMPLING PERFORMED? (YES/NO): NO IF YES, ATTACH COC FORMS			
GENERAL NOTES:	Dredge material disposal monitoring at CAD Cell #3. Dredge performance monitoring afterwards. Dredging being conducted with an environmental bucket.		



UP-CURRENT

Monitoring ID #	EASTING/ NORTHING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	RELATIVE POSITION OF MEASUREMENT	NUMBER OF HOURS DREDGING
110913-00-1-1	815477, 2696455	0800	20	1	14.3		Flooding tide	200' S of Disposal	Disposal Event
110913-00-1-9		0802		9	12.8				
110913-00-1-18		0804		18	14.6				
AVERAGE TURBIDITY:					13.90				
AVERAGE TURBIDITY:									
AVERAGE TURBIDITY:									
AVERAGE TURBIDITY:									
AVERAGE TURBIDITY:									
AVERAGE TURBIDITY:									

Down-Current

Monitoring ID #	EASTING/ NORTHING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
110913-00-9-1	816044, 2697063	0810	6	1	16.98		Flooding tide	200' N of Disposal	Disposal Event
110913-00-9-3		0812		3	13.7				
110913-00-9-5		0814		5	12.4				
			AVERAGE TURBIDITY:		14.36				
			TURBIDITY INCREASE:		0.46				
			AVERAGE TURBIDITY:						
			TURBIDITY INCREASE:						
			AVERAGE TURBIDITY:						
			TURBIDITY INCREASE:						
			AVERAGE TURBIDITY:						
			TURBIDITY INCREASE:						
			AVERAGE TURBIDITY:						
			TURBIDITY INCREASE:						

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