# Weekly Field Report Week: 04-20-14 through 04-26-14 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), 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 twenty fifth 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 25<sup>th</sup> Report for the LHCC dredging activities includes:

- Daily Inspection Reports from the dredging oversight performed during the week of April 20<sup>th</sup> through April 26<sup>th</sup>, 2014. These reports include notes on the equipment used on site, and a summary of contractor activities. (See Attachment 1);
- Water Quality Monitoring Forms completed for the week of April 20<sup>th</sup> through April 26<sup>th</sup>, 2014, (Attachment 2) summarizing monitoring survey data recorded during active dredging. 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
  - Performed visual inspections of dredged materials before the disposal of a scow for any visible debris or other items that could potentially become a hazard to navigation prior to the scow's departure for the offshore disposal site.

#### **Summary:**

The Contractor, Cashman Dredging and Marine Contracting, Co. LLC (Cashman) resumed dredging activities at the LHCC on April 23<sup>rd</sup> after a brief hiatus, during which the dredge plant, Bobby D, underwent repairs for damages to its stick cylinder. Dredging was conducted on April 23<sup>rd</sup>, 24<sup>th</sup>, 25<sup>th</sup>, and 26<sup>th</sup>. Dredging operations focused on the removal of Phase I Bottom of CAD Cell sediments. 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). Cashman was observed conducting these activities during the authorized operational window of 7 AM until sunset, utilizing a single dredge plant — the Bobby D; two tugs — Ellsea and Lucinda Smith; a 2800 cubic yard split scow — Eddie Carroll; 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 curtain perimeter surrounding the LHCC.

#### 2. Operational Notes:

#### **Dredging:**

Dredging of LHCC Phase I Bottom of CAD sediments continued during the week. Apex conducted one day of water quality monitoring on April 23<sup>rd</sup> while dredging was being performed to ensure that this activity did not result in an exceedance of any project-specific water quality standards.

#### **Offshore Disposal:**

Offshore disposal for LHCC Phase I Bottom of CAD sediments is scheduled and permitted for the Rhode Island Sound Disposal Site. Two offshore disposal events, using the split scow Eddie Carroll, were recorded during the week and occurred on April 24<sup>th</sup> and 26<sup>th</sup>.

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	2,770
Approximate Bottom of CAD Volume Dredged to Date*	44,970

<sup>\*</sup> Dredge 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.

Prepared by:

Apex Companies, LLC

John B. McAllister, P.E. Senior Project Engineer

# Attachment 1 Daily Inspection Reports



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Inspector:	Adam Hart						Date:	4/20/2014		
Contractor:	Cashman/W	eeks				Foreman/Supt:		-		
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	PM:		Clea	dľ			PM:			
Tides	High		000	)7	AM	1241	PM			
	Low		054		AM	1743	PM			
Manpower O	nsite					Equipment Ons	ite			
•	Foreman	0	@	0	Hrs	Description:			Hrs.	0
	Operators	0	@	0	Hrs		Eddie Carro	oll	Hrs.	0
	Laborers	0	@	0	Hrs		Ellsea		Hrs.	0
	Drivers	0	@	0	Hrs		Lucinda Sm	nith	Hrs.	0
	Other:		@		Hrs		Red Skiff		Hrs.	0
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Inspector:	Brett Young						Date:	4/21/2014	
Contractor:	Cashman/W	/eeks				Foreman/Supt:			
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Inspector:							Date:	4/22/2014			
Contractor:	Cashman/W	eeks_				Foreman/Supt:					
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Inspector:	Kyle Miller						Date	e: 4/23/2014		
Contractor:	Cashman					Foreman/Supt:	Horac	e Huggins		
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mitigation area f	or the night s	hift. 1	.800 T	he day s	shift de	parts and night s	hift board	s the Bobby D.		
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				Ins	spect	ion Report				
Inspector:	Chris Stillma	n					Date:	4/24/2014		
Contractor:	Cashman					Foreman/Supt:	Paul	Poirier		
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	Operator:	1	@ _	13	Hrs		Eddie Carr		Hrs.	12
	Engineer:		@_	13	Hrs		Lucinda Sn	nith	Hrs	12
	Mate:	_1_	@_	12	Hrs		Red Skiff		Hrs	12
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Inspector:	Chris Stillman	n					Date	e: 4/25/2014		
Contractor:	Cashman/W	eeks				Foreman/Supt:	Pau	l Poirier		
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				Ins	spect	ion Report				
Inspector:	Kaios Ryan						Date	: 4/26/2014		
Contractor:	Cashman					Foreman/Supt:	Paul	Poirier		
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Inspector: Kaios Ryan Foreman/Supt: Paul Poirier  Weather AM: Rain Foreman/Supt: PM: 39  Tides High O615 AM 1840 PM 2354 PM  Manpower Onsite Equipment Onsite  Captain: 1 @ 13 Hrs Description: Bobby D Hrs. 12  Engineer: 1 @ 13 Hrs Lucinda Smith Hrs. 12  Deck Hand: 1 @ 12 Hrs Red Skiff Hrs. 12  Deck Hand: 1 @ 13 Hrs Charles Red Skiff Hrs. 12  Deck Hand: 1 @ 13 Hrs Red Skiff Hrs. 12  Deck Hand: 1 @ 13 Hrs Red Skiff Hrs. 12  Deck Hand: 1 @ 13 Hrs Red Skiff Hrs. 12  Deck Hand: 1 @ 13 Hrs Red Skiff Hrs. 12  Deck Hand: 1 @ 13 Hrs Red Skiff Hrs. 12  Deck Hand: 1 @ 13 Hrs Red Skiff Hrs. 12  Deck Hand: 1 @ 13 Hrs Red Skiff Hrs. 12  Deck Hand: 1 @ 13 Hrs Red Skiff Hrs. 12  Deck Hand: 1 @ 13 Hrs Red Skiff Hrs. 12  Deck Hand: 1 @ 13 Hrs Red Skiff Hrs. 12  Deck Hand: 1 @ 13 Hrs Red Skiff Hrs. 12  Deck Hand: 1 @ 13 Hrs Red Skiff Hrs. 12  The Bobby D stops dredging and Lucinda Smith moves the dredge to the north to station 6+55 cuts 6 and 10.  1412 The Bobby D resumes dredging in the Eddie Carroll at station 6+55 cuts 6 and 10. 1612 The Bobby D stops dredging due to an oil leak coming from the Bobby D. The Bobby D. blew an O-ring and oil was coming out of the engine. 1622 The oil leak has been contained; the crew put down oil pads down to absorb any oil on deck. 1706 The Bobby D resumes dredging into the Eddie Carroll. 1850 Bobby D finishes dredging into the Eddie Carroll drafting at 7'. 1855 The Eddie Carroll is inspected and cleared for the off shore disposal. 1905 Lucinda Smith ties up to the Eddie Carroll and heads north for the off shore disposal site.  Problems/issues or Action Items:  None / N/A  Visitors:  Signature:					ıns	spect	on Report			
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1352 Bobby D stops dredging and Lucinda Smith moves the dredge to the north to station 6+55 cuts 6 and 10.  1412 The Bobby D resumes dredging in the Eddie Carroll at station 6+55 cuts 6 and 10. 1612 The Bobby D stops dredging due to an oil leak coming from the Bobby D. The Bobby D. blew an O-ring and oil was coming out of the engine. 1622 The oil leak has been contained; the crew put down oil pads down to absorb any oil on deck. 1706 The Bobby D resumes dredging into the Eddie Carroll. 1850 Bobby D finishes dredging into the Eddie Carroll drafting at 7'. 1855 The Eddie Carroll is inspected and cleared for the off shore disposal. 1905 Lucinda Smith ties up to the Eddie Carroll and heads north for the off shore disposal site.  Problems/Issues or Action Items:  None / N/A  Visitors:  Date: 04/26/2014  Page:2of3	Contractor Ac	tivities: (Conti	nued	from	Page 1	)				
Visitors:         Date: 04/26/2014           Title:         Environmental Scientist         Page: _2of3	1412 The Bobby dredging due to engine. 1622 The The Bobby D res drafting at 7'. 18 to the Eddie Carl	D resumes dro an oil leak con e oil leak has b umes dredging 55 The Eddie ( roll and heads	edging ning f peen c g into Carrol north	g in th rom t contai the E I is in	ne Eddie he Bobb ned; the ddie Car spected	Carrol by D. The crew   rroll. 18	l at station 6+55 ne Bobby D. blew put down oil pad 350 Bobby D finis eared for the off	cuts 6 and 10. 1612 The an O-ring and oil was colls down to absorb any oil shes dredging into the Ed	Bobby ming or on dec die Carr	D stops ut of the k. 1706 roll
Visitors:           Signature:         Date:         04/26/2014           Title:         Environmental Scientist         Page:         _2of3	•	ies of Action i	tems.							
Signature:         Page:         2	None / N/A									
Title: Environmental Scientist Page: _2of3	Visitors:									
Copy to: File: DIR_LHCC_042614	· ·	Koio	al Scie	entist					B	
	Copy to:	File						File: DIR_LHCC_0	42614	



#### **Inspection Report**

Inspector: Kaios Ryan	Date:	4/26/2014
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Contractor: Cashman Foreman/Supt: Paul Poirier



Bobby D Dredging into the Eddie Carroll



Bobby D Dredging into the Eddie Carroll



Bobby D Dredging into the Eddie Carroll



Lucinda Smith Preparing to take the Eddie Carroll out to the Off Shore Disposal Site

Visitors:		
Signature: Title:	Roise Pur Environmental Scientist	Date: April 26, 2014 Page:3of3
Copy to:	File	File: DIR_LHCC_042614

# Attachment 2 Water Quality Monitoring Forms

PROJECT: New Bedford Harbor Lower Harbor CAD Cell

JOB NUMBER: 6724 DATE: 4/23/2014

MONITORS: Kaios Ryan

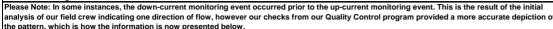
WEATHER CONDITIONS: High: 55 Low: 45 WIND: 6-17 mph Northwest

PRIOR STORM EVENTS:

DREDGE UPDATE:

TYPE OF WATER QUALITY MONITORING EVENT: TOP CAD Dredging / BTM CAD Dredging / Disposal

TIDE High: 0308/1541 Low: 0928/2153





					UP-CURRE	<u>ENT</u>			
Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	TYPE OF WQM & DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
042314-00-1-1 042314-00-1-3.5	815063, 2696369	847 849	7.2	1 3.5	2.12 1.62		Ebbing	15' S of Silt Curtain	00
042314-00-1-7		851		7	2.18				
			AVERAGE T	URBIDITY:	1.97				
042314-02-1-1	815057, 2692011	1102		1	2.07		Flooding	15' N of Silt Curtain	02
)42314-02-1-3.5 )42314-02-1-7	- 010007, 2002011	1104 1106	7.8	3.5 7	2.18 2.3	1	riodaling	10 IV of Oilt Guitain	02
	•		AVERAGE T	URBIDITY:	2.18	<u> </u>		'	
42314-04-1-1		1253	] [	1	2.11				
42314-04-1-4 42314-04-1-8	815126, 2696371	1255 1257	9.1	4 8	3.34 2.52	-	Flooding	15' S of Silt Curtain	04
142014 04 1 0		1201	AVERAGE T		2.66				
)42314-06-1-1		1455		1	2.85				
)42314-06-1-10.5 )42314-06-1-21	815459, 2696403	1457 1459	21.8	10.5 21	3.08 2.33	_	Flooding	15' S of Silt Curtain	06
	•		AVERAGE T		2.75	<u> </u>		'	
)42314-08-1-1		1652	] ]	1	2.71	_			
42314-08-1-12 42314-08-1-24	814670, 2696903	1654 1656	24.4	12 24	3.24 2.9		Ebbing	15' N of Silt Curtain	08
			AVERAGE T	URBIDITY:	2.95				
Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	Down-Curr TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM DREDGE/SILT CURTAIN	NUMBER OF HOURS
042314-00-9-1				1				T	
142314-00-9-4	815053, 2697012	907 909	8.3	4	1.85	-	Ebbing	15' N of Silt Curtain	00
	815053, 2697012	907 909 911	8.3	4 8	2.1 2.48	-	Ebbing	15' N of Silt Curtain	00
	815053, 2697012	909	8.3  AVERAGE T  TURBIDITY I	8 URBIDITY:	2.1	<u> </u>	Ebbing	15' N of Silt Curtain	00
)42314-00-9-8 )42314-02-9-1		909 911	AVERAGE T TURBIDITY I	8 TURBIDITY: NCREASE:	2.1 2.48 2.14 0.17	<u> </u>			
042314-00-9-8 042314-00-9-8 042314-02-9-1 042314-02-9-3 042314-02-9-6	815053, 2697012 815174, 2696377	909 911	AVERAGE T	8 'URBIDITY: NCREASE:	2.1 2.48 2.14 0.17	<u> </u>	Ebbing	15' N of Silt Curtain	00
)42314-00-9-8 )42314-02-9-1 )42314-02-9-3		909 911 1043 1045	AVERAGE T TURBIDITY I	8 URBIDITY: NCREASE:  1 3 6 URBIDITY:	2.1 2.48 2.14 0.17 2.59 2.72				
042314-00-9-8 042314-02-9-1 042314-02-9-3 042314-02-9-6	815174, 2696377	909 911 1043 1045 1047	AVERAGE T TURBIDITY I 7.1 AVERAGE T TURBIDITY I	8 URBIDITY: NCREASE:  1 3 6 URBIDITY: NCREASE:	2.1 2.48 2.14 0.17 2.59 2.72 2.72 3.08 2.80 0.61		Flooding	15' S of Silt Curtain	02
042314-00-9-8 042314-02-9-1 042314-02-9-3 042314-02-9-6 042314-04-9-1 042314-04-9-2.5		909 911 1043 1045 1047	AVERAGE T TURBIDITY I 7.1	8 URBIDITY: NCREASE:  1 3 6 URBIDITY: NCREASE:	2.1 2.48 2.14 0.17 2.59 2.72 3.08 2.80 0.61				
042314-00-9-8 042314-02-9-1 042314-02-9-3 042314-02-9-6 042314-04-9-1 042314-04-9-2.5	815174, 2696377	909 911 1043 1045 1047	AVERAGE T TURBIDITY I 7.1 AVERAGE T TURBIDITY I	8 URBIDITY: NCREASE:  1 3 6 URBIDITY: NCREASE:  1 2.5 5 URBIDITY:	2.1 2.48 2.14 0.17 2.59 2.72 3.08 2.80 0.61 3.8 4.64		Flooding	15' S of Silt Curtain	02
042314-00-9-8 042314-02-9-1 042314-02-9-3 042314-02-9-6 042314-04-9-1 042314-04-9-5 042314-04-9-5	815174, 2696377 815307, 2697095	909 911 1043 1045 1047 1301 1303 1305	7.1  AVERAGE T TURBIDITY I  7.1  AVERAGE T TURBIDITY I  6.1  AVERAGE T TURBIDITY I	8 URBIDITY: NCREASE:  1 3 6 URBIDITY: NCREASE:  1 2.5 5 URBIDITY: NCREASE: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2.1 2.48 2.14 0.17 2.59 2.72 3.08 2.80 0.61 3.8 4.64 3.99 4.14 1.49		Flooding	15' S of Silt Curtain	02
042314-00-9-8 042314-02-9-1 042314-02-9-3 042314-02-9-6 042314-04-9-1 042314-04-9-5 042314-06-9-1 042314-06-9-3	815174, 2696377	909 911 1043 1045 1047 1301 1303 1305 1506 1508	7.1  AVERAGE T TURBIDITY I  7.1  AVERAGE T TURBIDITY I  6.1  AVERAGE T	8 URBIDITY: NCREASE:  1 3 6 URBIDITY: NCREASE:  1 2.5 5 URBIDITY: NCREASE:	2.1 2.48 2.14 0.17 2.59 2.72 3.08 2.80 0.61 3.8 4.64 3.99 4.14 1.49 2.86 4.83		Flooding	15' S of Silt Curtain	02
042314-00-9-8 042314-02-9-1 042314-02-9-3 042314-02-9-6 042314-04-9-1 042314-04-9-5 042314-06-9-1 042314-06-9-3	815174, 2696377 815307, 2697095	909 911 1043 1045 1047 1301 1303 1305	7.1  AVERAGE T TURBIDITY I  7.1  AVERAGE T TURBIDITY I  6.1  AVERAGE T TURBIDITY I	8 URBIDITY: NCREASE:  1 3 6 URBIDITY: NCREASE:  1 2.5 5 URBIDITY: NCREASE:  1 3 6 URBIDITY: NCREASE:	2.1 2.48 2.14 0.17 2.59 2.72 3.08 2.80 0.61 3.8 4.64 3.99 4.14 1.49		Flooding	15' S of Silt Curtain	02
042314-00-9-8 042314-02-9-1 042314-02-9-3 042314-02-9-6 042314-04-9-1 042314-04-9-5 042314-04-9-5 042314-06-9-1 042314-06-9-3 042314-06-9-6	815174, 2696377 815307, 2697095	909 911 1043 1045 1047 1301 1303 1305 1506 1508	7.1  AVERAGE T TURBIDITY I  7.1  AVERAGE T TURBIDITY I  6.1  AVERAGE T TURBIDITY I  7  AVERAGE T	8 URBIDITY: NCREASE:  1 3 6 URBIDITY: NCREASE:  1 2.5 5 URBIDITY: NCREASE:  1 3 6 URBIDITY: NCREASE:	2.1 2.48 2.14 0.17 2.59 2.72 3.08 2.80 0.61 3.8 4.64 3.99 4.14 1.49 2.86 4.83 5.3 4.33		Flooding	15' S of Silt Curtain	02
042314-00-9-8  042314-02-9-1  042314-02-9-6  042314-04-9-1  042314-04-9-5  042314-06-9-1  042314-06-9-6  042314-06-9-6	815174, 2696377 815307, 2697095	909 911 1043 1045 1047 1301 1303 1305 1506 1508 1510	7.1  AVERAGE T TURBIDITY I  7.1  AVERAGE T TURBIDITY I  6.1  AVERAGE T TURBIDITY I  7  AVERAGE T	8 URBIDITY: NCREASE:  1 3 6 URBIDITY: NCREASE:  1 2.5 5 URBIDITY: NCREASE:  1 3 6 URBIDITY: NCREASE:  1 4 4	2.1 2.48 2.14 0.17 2.59 2.72 3.08 2.80 0.61 3.8 4.64 3.99 4.14 1.49 2.86 4.83 5.3 4.33 1.58		Flooding	15' S of Silt Curtain	02
42314-00-9-8 42314-02-9-1 42314-02-9-3 42314-02-9-6 42314-04-9-1 42314-04-9-5 42314-06-9-1 42314-06-9-6 42314-06-9-6	815174, 2696377 815307, 2697095	909 911 1043 1045 1047 1301 1303 1305 1506 1508 1510	AVERAGE T TURBIDITY I  7.1  AVERAGE T TURBIDITY I  6.1  AVERAGE T TURBIDITY I  7  AVERAGE T TURBIDITY I	8 URBIDITY: NCREASE:  1 3 6 URBIDITY: NCREASE:  1 2.5 5 URBIDITY: NCREASE:  1 3 6 URBIDITY: NCREASE:  1 4 8	2.1 2.48 2.14 0.17 2.59 2.72 3.08 2.80 0.61 3.8 4.64 3.99 4.14 1.49 2.86 4.83 5.3 4.33 1.58		Flooding Flooding	15' S of Silt Curtain  15' N of Silt Curtain	02

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

