Weekly Field Report Week: 02-23-14 through 03-01-14 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 seventeenth 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 17th Report for the LHCC dredging activities includes:

- Daily Inspection Reports from the dredging oversight performed during the week of February 23rd through March 1st, 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 February 23rd through March 1st, 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) conducted dredging at the LHCC on February 25th, 26th, 27th, 28th, and March 1st. Dredging operations focused on the strategic removal of Phase I Bottom of CAD Cell sediments to open up a 125-foot wide deep water channel entering in from the southwest corner of the LHCC to facilitate the access of larger barge mounted dredge equipment expected on site. A new dredge plant and scow from Cashma arrived on site to resume dredging activities after Tripp Marine was demobilized from the site on February 9th. 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 7AM until sunset, utilizing a single dredge plant – the Bobby D ; the tugs Henri and Ellsea; a 2800 cubic yard split scow – Eddie Carroll; and two small utility boats. With time of year

restrictions now in place (January 15th through June 15th) all dredging activities were conducted within a silt curtained perimeter surrounding the LHCC.

2. Operational Notes:

Dredging:

Dredging of LHCC Phase I Bottom of CAD sediments restarted during the week after the Cashman dredge plant, Bobby D, arrived on site, along with a new split scow, Eddie Carroll. Dredging operations focused on the strategic removal of sediments to open up a 125-foot wide deep water access channel. Apex conducted two days of water quality monitoring on February 25th and 26th 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. Three offshore disposal events, using the split scow Eddie Carroll, were recorded during the week and occurred on February 26th, 28th and March 1st.

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	5,400
Approximate Bottom of CAD Volume Dredged to Date*	10,000

* 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

Don Boyé Senior Project Manager

Attachment 1 Daily Inspection Reports

	Ci	-	edford Harb rd Harbor US CFDA I	or Developme EPA Lower Ha No.: 66.802			
Inspector:	C. Stillman				Date	: 24 Febru	ary 2014
Contractor:	Cashman			Foreman/Supt:			
Weather	AM: PM:	Clear Clear		Temperature	AM: PM:	10 30	
Tides	High	0241	AM	1513	PM		
	Low	0859	AM	2047	PM		
Manpower O Other:	Foreman Operators Laborers Drivers	@ @ @ @	Hrs Hrs	Equipment Or Description:			Hrs Hrs
Contractor Ac	tivities: (Att	ach Additional	l Sheets as Ne	cessary)			
0515- No activity curtain is in good Problems/Issu None / n/a	d working or	der. 1645- No		there are no pla	ans to beg	in dredging	g today. 0610- The silt
Visitors:							
Signature: Title:	C. Stillman				Page	e: <u>24 Febru</u> e:1o	f1
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Inspection Report

Inspector:	M. Martin	ho				_	Date	: 25 Februa	ry 2014		
Contractor:	Cashman					Foreman/Supt:				_	
Weather	AM: PM:	Clear Clear				Temperature	AM: PM:	17			
	Pivi.	Clear					- PIVI.	30			
Tides	High		0355		AM	1622	PM				
	Low		1006		AM	2157	PM				
Manpower O	nsite					Equipment On	nsite				
•	Foreman	1	_@_	8	Hrs			Bobby D	Hrs	8	
	Operators	1_	_@_	8	Hrs		Ed	die Carroll	Hrs	8	
	Laborers	2_						Henri			
	Drivers		_@		-			Ellsea	Hrs	8	
Other:			_@		- Hrs			Red Skiff			
Contractor Ac	ctivities: (Att	ach Addi	tional S	Sheets	s as Ne	ecessary)					
0801- Pre-inspec heads for LHCC Henri and Ellsea	with the Her bring the Ec	nri and El ddie Caro	lsea. 08 I to LH	815- B CC. 10	Bobby I 045- Ec	D, Henri, and Ell Idie Carroll is dra	sea enter i afting at 4	nto the curt . 1051- Red	ain of LH skiff clos	ICC. 0925- ses the silt	
curtain. 1055- Tl	-	-		-							
Bobby D resume						-					
1540- The Eddie				•		-		-			
curtain is closed		-						8- The Bobi	by D stop	s dredging	
and is moved 30	to the wes	1. 1720- 1	пе во	ם עממ	orings	the bucket on t	Jeck.				
Problems/Issu	ues or Actio	n Items:									
None / n/a											
Visitors:											
Signature:	M. Martin	ho					Date	: 25 Februa	ry 2014		
Title:						-	Page	e:1of_	1		
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Inspection Report

Inspector:	Kaios Ryan	/ Adam	Hart		-	Date	e: 2/26/2014	
Contractor:	Cashman				Foreman/Supt	: Junior	Huggins, Steve	Baynes
Weather	AM:		Cloudy		Temperature		32	
	PM:		Clear			PM:	10	
Tides	High		459	AM	1723	PM		
	Low		1104	AM	2301	PM		
Manpower O	nsite				Equipment Or	nsite		
•	Foreman	2	@	Hrs	Description:			Hrs 10
	Operators	1	@	Hrs		Eddie Car	roll	Hrs24
	Laborers	2	@	Hrs		Elssea		Hrs 11
	Drivers		_@	Hrs		Henri		Hrs11
Other:			_@	Hrs		Lucinda S	mith	Hrs24
						3		Hrs
Contractor Ac								
	-	-						y D. begins dredging
		-				-		to the Eddie Carroll
								7 Ellsea moves the
			-					dging. 1221 Captain
			-	-		-	-	de to come up (too
-		-				-		skiff closes the silt
					-			roll. 1527 Tug boats
			-	-		-		curtain. 1627 Dredge
		-						ns the silt curtain. 1645
								ne scow Eddie Carroll
	-	-	•			-	•	in. 1715 Tug Lucinda
				-		-	-	skiff returns to LHCC
		-		in and the	e loaded scow E	ddie Carro	i nead south th	rough the hurricane
barrier. 1735 Tu	g Henri ties t	o Shuste	er dock.					
Visitors:								
Signature:	edda		and the second	-	_	Date	e: 02/26/2014	

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Inspection Report

				mope				
Inspector:	Chris Stillm	an			-	Date	: 2/27/2014	
Contractor:	Cashman				Foreman/Sup	t: <u>Junior</u>	Huggins	
Weather	AM: PM:		Clear Clear		Temperature	e AM: PM:	<u> </u>	
Tides	High Low		0555 1153	AM AM	 	PM PM		
Manpower O	nsite				Equipment C	Insite		
	Foreman	1	@	Hrs	Description	: Bobby D.		Hrs6
	Operators	1	@	Hrs		Eddie Carr	roll	Hrs8
	Laborers	2	@	Hrs		Elssea		Hrs8
	Drivers		_@	Hrs		Henri		Hrs8
Other:			_@	Hrs		Lucinda Sr	nith	Hrs
						_		Hrs
Contractor Ac					11			
D is dredging inte southeast @ 20' Bobby D moves of 1215- Henri mov not dredging at t Bobby D and Edo dredging. 1731-	o the split sc . 0830- Bobb east @ 20'. 1 ved south of this time. 15 die Carroll re Bobby D stop	ow Eddi by D sto 145- Bo bridge. 25- Hen position ps dredg	ie Carroll. ps dredgin obby D sto 1315- Her nri leaves I n and are f	0740-Bo ng. 1010- ps dredgin nri moved .HCC area acing east	bby D continue Bobby D is dre ng, moves sout north of bridge southbound. 1 :/west, 20' east	es dredging dging into E heast @ 30 e into LHCC L630- Bobby t of the silt o	into the EC. 08 C. Drafts: bow . Drafts on EC area. 1500- sti D resumes dro curtain gate. 17	The dredge plant Bobby 815- Bobby D moves v- 3.5', stern- 6'. 1020- c, bow- 3.5', stern- 7'. Il undergoing repairs, edging. 1650- The 701- Bobby D resumes bow- 4', stern- 7.5'.
Problems/Issu								
-	visible sheen	noticed	l on water					il boom in water as aulic oil was released
Visitors:								
Signature:	Chipa	The				Date	: 02/27/2014	

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Scientist

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Inspection Report

			•	•			
Inspector:	Brett Young			-	Date: 2/28/2014		
Contractor:	Cashman			Foreman/Supt:	Junior Huggins		
Weather	AM: PM:	Clear Clear	-	Temperature	AM: 12 PM: 25		
Tides	High Low	0647 0003	AM AM	1908 1240	PM PM		
Manpower O	nsite			Equipment Ons	site		
	Foreman Operators Laborers Drivers Other:	2 @ 9.5 1 @ 10.5 2 @ 10.5 1 @ 10.5 @	Hrs Hrs Hrs Hrs Hrs	Description:	Bobby D Eddie Carroll Ellsea Henri Lucinda Smith	Hrs Hrs Hrs Hrs Hrs	4.5 10.5 11 0.5 1
Contractor Ac	ctivities: (Atta	ch Additional Sheets	as Ne	ecessary)		Hrs	
work in the imm is waiting for a h 1505 Steve Bayr into the Eddie C Eddie Carol outs well as Henri an the Hurricane Ba	nediate area. (nigher tide in o nes estimates arroll. 1731 Tl ide the silt cu d Ellsea make arrier.	D939 Bobby D draftir order to continue. 14 dredging will resume he Bobby D stops dre irtain and tie it to the the 1815 bridge ope	ng 7' E 405 Ca e betv edging e Lucii	ow and 8' Stern aptain Baynes es veen 1545 and 1 g into the Eddie (nda Smith. 1815	dredging for 4 mins to a 1045 Bobby D has stopp timates that dredging wil 600. 1632 The Bobby D r Carroll. 1744 Henri and E Lucinda Smith with the B 36 The Lucinda Smith and	oed dred II resume resumes Ilsea take Eddie Car	ging and e at 1500. dreding e the rroll, as
Problems/Issu	ues or Action	Items:					
Visitors:							
Signature: Title:	B-#75 Environmen	tal Scientist			Date: 02/28/2014 Page:1of	1	
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Inspection Report

				mspe				
Inspector:	Kyle Miller				-	Date	e: <u>3/1/20</u>)14
Contractor:	Cashman				Foreman/Supt	: Junio	r Huggins/St	teve Baynes
Weather	AM:		tly Cloudy		Temperature		28	
	PM: _	Par	tly Cloudy		-	PM:	37	
Tides	High		0737	AM	1958	PM		
	Low		0058	AM	1324	PM		
Manpower O	nsite				Equipment O	nsite		
	Foreman	2	@	Hrs	Description	Bobby D.		Hrs12
	Operator	1	@	Hrs		Eddie Ca	roll	Hrs12
	Mate	1	@	Hrs		Elssea		Hrs12
	Deckhand	1	_@	_ Hrs		Henri		Hrs1
	Engineer		_@	_ Hrs		Red Skiff		Hrs12
						Lucinda S	Smith	Hrs1
Contractor Ac								
the Ellsea and th	ne Henri to fli Eddie Carrol	p the so is inspe	cow for even ected and cle	loadin ared fo	g. 1221 Bobby or disposal offsl	D. resume nore. Lucii	s dredging. nda Smith ti) stops dredging to allow 1720 Dredging stops, les up to the Eddie Carrol crew departs.
Problems/Issu	ues or Action	Items:						
Visitors:								
visitors.								
Signature:	Hyl. M	ıller			_	Dat	e: 03/01/20)14
Title:	Environmen	ital Scie	entist		-	Pag	e:	f1
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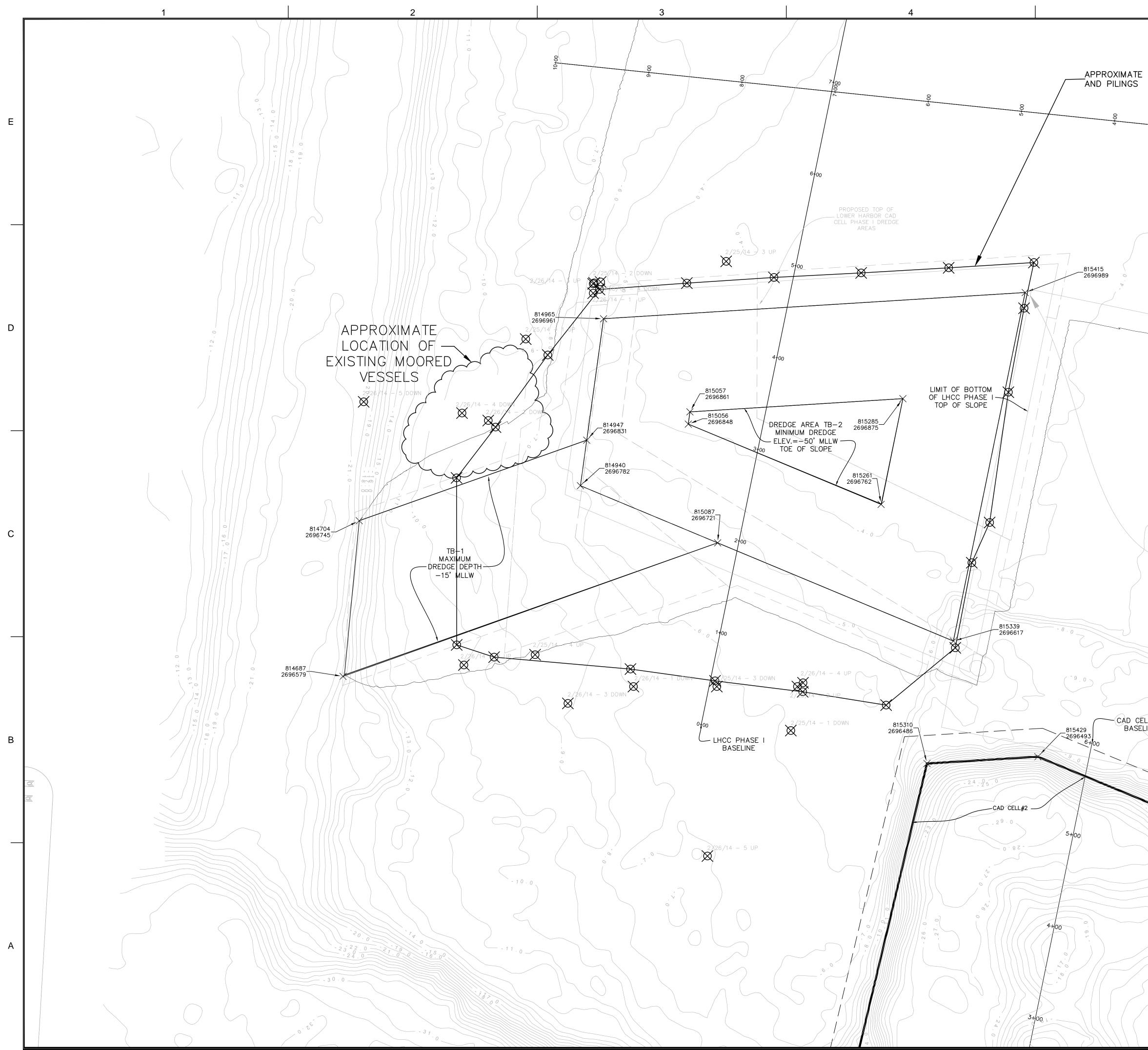
Attachment 2 Water Quality Monitoring Forms

PROJECT:	New Bedford Harbor L	ower Harbor C	AD Cell						
JOB NUMBER:	6724								
SURVEY DATE:	25 February 2014								
MONITORS:	M. Martinho								
WEATHER CONDITIONS:	Clear	Low	/: 17	High:	30			-	
WIND CONDITIONS:	Speed:	9-14 MPH		Direction:	w				
PRIOR STORM EVENTS:	N/A								
DREDGE / SCOW Position									PEX
TYPE OF WATER QUALIT					Disposal			- 141-	1- X
TIDE INFORMATION: WAS WATER QUALITY SA		0355/1622	Low: N	1006/2157		MC		/ 11	
GENERAL NOTES:		(TES/NO):	IN	IF YES, ATTA		MS		-	
GENERAL NOTES.									
						-			
					UP-CURREN	1			
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
			DEI III (II)	DEFINI(I)	(1103)				DICEDUING
022514-00-1-1		1110		1	6.98				
022514-00-1-3	814882, 2696939	1112	8.8	3	6.81		Flooding	15' N of Silt Curtain	00
022514-00-1-7		1114		7	7.89				
			AVERAGE	TURBIDITY:	7.23				
					-				
022514-02-1-1	045470 0000500	1259	_	1	9.38		- ,		
022514-02-1-3	815172, 2696568	1301	6.4	3	12.1		Flooding	15' S of Silt Curtain	02
022514-02-1-6		1303		6	7.65				
			AVERAGE	TURBIDITY:	9.71				
022514-04-1-1		1510	1	1	7.66	1			
022514-04-1-3	815096, 2697022	1510	6.6	3	10.6		Flooding	15' N of Silt Curtain	04
022514-04-1-6		1512	0.0	6	10.34				
0220110110	· · · · · · · · · · · · · · · · · · ·	1011	AVERAGE	-	9.53	1		· · · · · ·	
						-4			
022514-06-1-1		1610		1	6.65				
022514-06-1-5	814892, 2696602	1612	12.8	5	4.28		Ebbing	15' N of Silt Curtain	06
022514-06-1-10		1614		10	4.81				
			AVERAGE	TURBIDITY:	5.25				
		1	_						
	-		-			-			
	-		-			-			
			AVERAGE						
			AVERAGE						
					Down-Currer				
					Down Ourier	<u></u>			
Monitoring ID #	NORTHING / EASTING	TIME	TOTAL WATER	SAMPLE	TURBIDITY	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM	NUMBER OF HOURS
Monitoring ID #	Nokriniko/ Ekoniko	1.002	DEPTH (ft)	DEPTH (ft)	(NTUs)		IDAE OTAGE	LOCATION	DREDGING
022514-00-9-1		1100		1	11.3				
022514-00-9-3	815165, 2696521	1102	6	3	11.2		Flooding	15' S of Silt Curtain	00
022514-00-9-5		1104		5	12.5				
			AVERAGE		11.67				
			TURBIDITY	INCREASE:	4.44	1			
022514-02-9-1		1007		1	40.4				
	814955, 2696999	1307	67		13.1		Flooding	15' N of Silt Curtain	02
022514-02-9-3 022514-02-9-6	011000, 2000000	1309 1311	6.7	3	14.9 11		i loodilig		<u>.</u>
022014 02 0 0		1011	AVERAGE	TURBIDITY:	13.00				
			TURBIDITY		3.29	1			
						-4			
022514-04-9-1		1500		1	9.32				
022514-04-9-4	815086, 2696568	1502	8.2	4	9.66		Flooding	15' S Silt Curtain	04
022514-04-9-8		1504		8	10.14				
			AVERAGE		9.71				
			TURBIDITY	INCREASE:	0.17				
000514.00.0.1	1				0.5-	1		1	
022514-06-9-1	814962, 2697000	1600		1 4	9.55	- 1	Ebbing	15' S of Silt Curtain	06
022514-06-9-4 022514-06-9-8	0.1002, 2007000	1602 1604	9.3	8	6.82 9.13	- 1	200119		50
022014-00-0-0		1004	AVERAGE	o TURBIDITY:	9.13 8.50	1			
			TURBIDITY		3.25	1			
					0.20	-4			
				TURBIDITY:		4			
			TURBIDITY	INCREASE:	I	1			
* Turbidity Increase - Down-Curr	ont Average Turbidity I In Cur	ront Avorago Turbi	dity						

PROJECT:	New Bedford Harbor L	ower Harbo	r CAD Cell							
			0.12 0011					i		
	NUMBER 674 VEYDATE 0200391 VEYDATE 02									
	Low:	10	High:	32						
	opecu.	0 10 101 11	Direction.	west						
	NUMBER: 672 NUMPEY NATE: 20202014 NUMPEY NATE: Numpey Let NMM									
	NUMBER 674 NUMPERATION Subject 32 NUMPERATION Subject 32 NUMPERATION Subject 32 NUMPERATION Subject 32 SUBJECT Subject 32 SUBJECT Subject Subject Subject SUBJECT Subject Subject Subject Subject SUBJECT Subject Subject Subject Subject Subject SUBJECT Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject Subject									
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						-	P			
					UP-CURRE	<u>INT</u>				
		1								
			TOTAL WATER	SAMPLE	TURBIDITY			RELATIVE POSITION	NUMBER OF HOURS	
Monitoring ID #	NORTHING / EASTING	TIME				GPS FILE NAME	TIDAL STAGE			
022614-00-1-1		0800		1	4.03	Apex Ihcc				
022614-00-1-4	814954 2696988	0802	8.2	4	6.54	wgm 022614	Ebbing	15' N of Silt Curtain	00	
022614-00-1-8		0804		8	4.73	0800				
			AVERAGE T	URBIDITY:						
				-		_1				
022614-02-1-1		1011		1	3.32	Apex lhcc				
	814816 2696591		10.6	5			Ebbing	15' S of Silt Curtain	02	
			10.0							
022014-02-1-10		1015				1011				
			AVERAGE	UNDIDITT:	0.31	L				
022614 04 1 1		1010	,	A	2.00	Anovikas		1		
	814954 2696998		6.0	-		1	Flooding	15' N of Silt Curtain	04	
	014004 2000000		0.2				riooding	TO IN OF OIL OULUIT	04	
022614-04-1-6		1223				1219				
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						I				
	045470 0000570					1	Electric e		00	
	815178 2696572		6.5			1	Flooding	15 S of Silt Curtain	06	
022614-06-1-6		1409		÷		1405				
			AVERAGE T	URBIDITY:	5.44					
						-				
022614-08-1-1	14-04-1-3 814954 2696998 1221 6.2 3 9.3 wqm 022614 Flooding 15' N of Silt Curtain 04 14-04-1-6 1223 6 5.6 1219 15' N of Silt Curtain 04 14-04-1-6 1223 AVERAGE TURBIDITY: 5.97 5.97 5.97 14-06-1-1 815178 2696572 1407 6.5 3 6.66 wqm 022614 Flooding 15' S of Silt Curtain 06 14-06-1-6 1409 6.5 3 6.66 wqm 022614 Flooding 15' S of Silt Curtain 06 14-08-1-6 1409 AVERAGE TURBIDITY: 5.44 Flooding 15' S of Silt Curtain 06 14-08-1-5 815076 2696387 1612 11.3 5 3.81 wqm 022614 Flooding 15' S of Silt Curtain 08 14-08-1-10 1614 11.3 5 3.81 wqm 022614 Flooding 15' S of Silt Curtain 08 14-08-1-10 1614 11.3 5 <t< td=""></t<>									
022614-08-1-5	815076 2696387	1612	11.3	5	3.81	wqm 022614	Flooding	15' S of Silt Curtain	08	
022614-08-1-10		1614		10	4.06	1610				
	Continue Continue									
					Down-Curr	ent				
		-			<u>Donn oun</u>	Unit				
Monitoring ID #	NORTHING / FASTING	TIME				GPS FILE NAME	TIDAL STAGE			
monitoring ib #			DEPTH (ft)	DEPTH (ft)	(NTUs)	OF OT IEE IN MILE	IB/2 OF/CE	LOCATION	DREDGING	
022614-00-9-1		0813		1	3.96	Apex Ihcc				
022614-00-9-4	814997 2696568	0815	8.3	4	6.7	wgm 022614	Ebbing	15' S of Silt Curtain	00	
022614-00-9-8		0817		8	9.45	0813				
			AVERAGE T	URBIDITY:	6.70					
			TURBIDITY	NCREASE:	1.60					
						-				
022614 02 0 4		0050		4	E E	Annull				
	814842 2606852		0.0	-			Ebbing	15' N of Silt Curtain	02	
	J14042 2090002		9.3	-			Loong	TO IN OF OIL OULDIN	02	
022614-02-9-9		1000				0956				
						-				
			TURBIDITY	NCREASE:	0.51	_				
		1007			5.04					
	014007 0000000						Flooding	151 C of Cilt Curtain	04	
	814927 2090000		9.1				Flooding		04	
022614-04-9-9		1211				1207				
						-				
			TURBIDITY	NCREASE:	0.34	L				
		1			1	T		•		
	014014 0000000						Flor dia a	AFIN of Oth Ounty I	00	
	614814 2696860		10.4				Flooding	15 IN OF SIIT CURTAIN	Ub	
022614-06-9-10		1425				1421				
						-				
			TURBIDITY	NCREASE:	0.69	1				
		1			1			-		
022614-08-9-1		1620		1	4.45	Apex Ihcc				
022614-08-9-13	814709 2696872	1622	26.2	13	5.46	wqm 022614	Flooding	15' N of Silt Curtain	08	
022614-08-9-26		1624		26	5.02	1620				
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* Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

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



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