Weekly Field Report Week: 12-08-13 through 12-14-13 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 sixth 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 Sixth Report for the LHCC dredging activities includes:

- Daily Inspection Reports from the dredging oversight performed during the week of December 8th through December 14th. 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 December 8th through December 14th are attached (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 events a minimum of two days per week.
 - Conducted water quality monitoring for disposal events into either the existing CAD Cell #2 or CAD Cell #3 of Top of LHCC sediments removed by this Project.
 - Performed visual inspections 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, conducted dredging at the LHCC daily December 9th through the 14th. Dredging operations focused on the removal of Phase I Top of CAD cell sediments and the disposal of these sediments into CAD Cell #3. Dredging operations during this reporting period were conducted using a conventional digging bucket in certain areas of the dredge footprint where dense sandy materials were known to exist, per verbal approval discussed at the November 13th project meeting and the subsequent formal letters provided on November 21st and December 10th. 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*; a 3000 cubic yard pocket scow SEI-2000, and a small utility boat. Tripp Marine was utilizing the Cashman dewatering barge as a staging area for dewatering operations and as an aid 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 continued through the week of December 8th utilizing an open conventional digging bucket in certain areas and per the terms outlined in the letters issued on November 21st and December 10th. Apex conducted three days of water quality monitoring while the open conventional bucket was being used in ensure that the use of the conventional bucket did not result in an exceedance of any project-specific water quality standards. Water quality monitoring was completed on the 9th, 11th, and 13th of December. Monitoring of dredging activities will continue on a schedule of a minimum of two events per week as required by the project performance standards.

Disposal:

Disposal of "Top of LHCC" sediments was conducted on December 9th, 11th, 12th, 13th, and 14th. Based on scow logs, approximately 500 and 800 cubic yards of material (assuming 120 pounds/ft³ for dredged materials) was placed into CAD Cell #3 during each disposal event for scow TMC-140 and SEI-2000, respectively. Sediments contained in the scow were inspected prior to each disposal to assess the effectiveness of dewatering. Water quality monitoring, required for each CAD Cell disposal event, was completed for each day of disposal activity.

Table 1 – Cumulative Dredging Progress

Period of Activity	Volume (cy)
Approximate Vol. Dredged this Reporting Period	3,300
Approximate Volume Dredged to Date	12,900

4. Monitoring Summary

There were no water quality exceedances observed during this reporting period related to either dredging or disposal 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



			ilispec	tion Report					
Inspector:	K. Ryan, C.	Stillman		Date: 09 December 2013					
Contractor:	Tripp Mar	ine		Foreman/Supt: Pyne Tripp					
Weather	AM: PM:	Overcast with f		Temperatu E shifting NW	re AM: PM:	30 42			
Tides	High Low	1237 0630	AM AM	1305 1910	PM PM				
Manpower O	nsite			Equipment O	nsite				
Other:	Foreman Operators Laborers Drivers	1@ 1@ 1@ @	8 Hrs _8 Hrs	Description:	Scov Push boat Sa Su	y TMC 140 and Pebble pport boat w SEI 2000	Hrs8 Hrs8 Hrs8 Hrs8		
Contractor Ac	tivities: (Att	ach Additional S	heets as Ne	cessarv)					
Apex on-site at 0 clearance for the recorded as 7' FV Dredging begins TMC-140. At 12 FWD/AFT. At 13 until 1615, at when the water quality	7730 to cond disposal of WD and 7.5' at 0926 usi 45 scow TM 356 scow SE nich point di	duct oversight of materials into C AFT. Scow TMC ng the open condition of the open condi	dredging and AD Cell #3. C-140 is man wentional divered over the vered along ow SEI-2000	ctivities and to Disposal occur neuvered into p gging bucket, w o dewatering b side dredge pla	s at 0841 with osition alongs with dredged r arge; draft m ant and dredg	n draft mark side dredge materials be arks are rec	s on the scow plant at 0920. ing placed into sorded as 8.5'	scow	
Problems/Issu None / N/A	ies or Actio	n Items:							
Visitors:		_							
Signature: Title:	D. Boye			- -		: <u>09 Decem</u> : <u>1of</u>			
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			Шэрсс	otion Report						
Inspector:	C. Stillman	, M. Martinho		Date: 10 December 2013						
Contractor:	Tripp Mari	ne		Foreman/Supt: Pyne Tripp						
Weather	AM: PM:	Overcast with Snow flurries.		Temperatu WNW	ıre AM: PM:	27 35				
Tides	High Low	0136 0829	AM AM	1404 2019	PM PM					
Manpower O	nsite			Equipment O	nsite					
Other:	Foreman Operators Laborers Drivers	1@	8 Hrs 8 Hrs	Description:	Sco Push boat S St	ge Tripp 47 w TMC 140 and Pebble upport boat ow SEI 2000	Hrs8 Hrs8 Hrs8 Hrs8			
Contractor Act	tivities: (Att	ach Additional	Sheets as Ne	cessary)						
Apex first on-site provide clearanc begins at 0843 us At 1100 scow SEI At 1246, scow TN dredge plant for No water quality	e at 0600 to e for the dis sing the ope I-2000 is ma MC-140 is m the placements	conduct oversi sposal of mater en conventiona inuevered over anuevered to d ent of additional	ght of dredgi ials into CAD I digging buch to dewatering dewatering b al materials.	ing activities an Cell #3. Scow ket, with dredg ng barge; mate arge. At 1345 s	SEI-2000 is a ed materials rials were ins scow SEI-200	ground upon being placed spected and of the placed and of the placed and of the placed spected s	erials in scow to arrival. Dredging d into scow TMC-140. cleared for disposal. ered back alongside			
Problems/Issu None / N/A	ies or Actior	ı Items:								
Visitors:										
Signature: Title:	D. Boye			- -		e: <u>10 Decem</u> e: <u></u> 1of				
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Inspector:	K. Ryan, K.	Milller			Date: 11 December 2013					
Contractor:	Tripp Mari	ine			Foreman/Supt: Pyne Tripp					
Weather	AM: PM:	Clear to pt	ly. cloudy. \	Winds	Temperatus 10-15k W	ure	AM: PM:	25 30		
Tides	High Low		237 938	AM AM	1505 2110	PN				
Manpower O	nsite				Equipment O	nsite				
Other:	Foreman Operators Laborers Drivers	1	08 08 08 0	Hrs Hrs Hrs Hrs	Description:	Push	Scow boat Sar Sup	TMC 140 nd Pebble port boat SEI 2000	Hrs8 Hrs8 Hrs8 Hrs8	
Contractor Ac	tivities: (Att	ach Additio	nal Sheets a	as Ne	cessarv)					
Apex on-site at 0 clearance for the at 0806, after wh digging bucket, v scow SEI-2000 in disposal. The discontinues until 1 No water quality	730 to cond disposal of nich it is man with dredged to position sposal of dre 549, at which issues were	duct oversiged materials in the materials of the materials for disposal edged mate on point the electrical observed of the materials observed of the materials of the materials observed of the materials of the m	tht of dredg nto CAD Ce longside the being place into CAD C rials held in draft mark	ing ad II #3. e drected into dell #3 i scow ss on s	ctivities and to Disposal of dro dge. Dredging b o scow TMC-14 d. Apex confirm v SEI-2000 occu	edged begins 10. Drons the urs at 1	material at 0938 edging is material 1405. Dr	s held in so using the o paused at s in the sco redging resu	s in scow to provide cow TMC-140 occurs pen conventional 1301 to maneuver ow are cleared for umes at 1436 and /D and 10' AFT.	
Problems/Issu None / N/A	ies or Actior	າ Items:								
Visitors:										
Signature: Title:	D. Boye							11 Decem 1of		
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Inspector:	M. Tumolo)						Date:	12 Decem	ber 2013	3
Contractor:	Tripp Mari	ne				Foreman/Supt:	Pyne	Tripp			
Weather	AM: PM:	Clear. Clear to	ptly. cl	oudy. W	Vinds	Temperature 5 5-15k WNW		AM: PM:	10 28		
Tides	High Low		0337 1031		AM AM	1604 2148	_PM _PM				
Manpower O	nsite					Equipment Ons	site				
Other: Contractor Ac Apex on-site at C clearance for the at 0725, after wh digging bucket, who in the draft m	0700 to cond e disposal of nich it is man with dredged	ach Addit duct overs materials neuvered d materia	@ @ iional S sight of s into C alongs	8 8 heets as dredging CAD Cell side the	Hrs Hrs Hrs S Nec ng ac #3. dred	cessary) ctivities and to in Disposal of dred lge. Dredging be o scow TMC-140.	specinged regions a	Scow boat Sar Sup Scow t dredge materia at 0805 dging co	ls held in sc using the o	ow TMC pen con	8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9
No water quality	issues were	e observe	d durin	ng the da	ay.						
Problems/Issu None / N/A	ues or Action	ı Items:									
Visitors:											
Signature: Title:	D. Boye								12 Decem		3
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Inspector:	M. Tumolo)				Date: 13 December 2013						
Contractor:	Tripp Mar	ine				Foreman/Supt: Pyne Tripp						
Weather Tides	AM: PM: High Low	Overca Overca			15k gu AM AM	Temperatusting higher W 1700 2223	ıre Pi		14 30			
Manpower O	nsite					Equipment O	nsite					
Other:	Foreman Operators Laborers Drivers	11	@ @ @	8 8 8	Hrs Hrs	Description:	Push	Scow boat Sa Sup	e Tripp 47 7 TMC 140 and Pebble oport boat v SEI 2000	Hrs Hrs Hrs Hrs	8 8 8	
Contractor Ac	tivities: (Att	ach Add	itional	Sheets	s as Ne	rcessary)						
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Problems/Issu None / N/A	ues or Actio	n Items:										
Visitors:												
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						Allon Report						
Inspector:	M. Martinl	ho, K. Ry	an			Date: 14 December 2013						
Contractor:	Tripp Mari	ine				Foreman/Supt: Pyne Tripp						
Weather	AM: PM:			ning fog ries. Wir		Temperatu 10k NNE	re	AM: PM:	15 30			
Tides	High Low		0528 1150		AM	1749 2300	PN					
Manpower O	nsite					Equipment Or	nsite					
Other:	Foreman Operators Laborers Drivers			8 8	Hrs Hrs Hrs Hrs	Description:	Push	Scov boat Sa Su	y TMC 140 and Pebble pport boat w SEI 2000	Hrs8 Hrs8 Hrs8 Hrs8		
Contractor Ac	tivities: (Att	ach Add	itional	Sheets	as Ne	cessarv)					〓	
clearance for the at 0740, after wh digging bucket, v	e disposal of nich it is man with dredged 140 is mand T.	materia neuvere d materi euvered	als into d along als bein over to	CAD Ce gside the ng place o dewate	II #3. e drec d into ering	Disposal of dre dge. Dredging bo o scow TMC-140	dged egins). D	materia at 0810 redging	als held in so using the o continued u	s in scow to provide cow TMC-140 occurs pen conventional until 1443, at which TMC-140 were 10'		
Problems/Issu None / N/A	ies or Action	n Items:										
Visitors:												
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Attachment 2 Water Quality Monitoring Forms

PROJECT:	New Bedford Harbor Lower Harbor CAD Cell
JOB NUMBER:	6724
SURVEY DATE:	09 December 2013
MONITORS:	K. Ryan, C. Stillman
WEATHER CONDITIONS:	Fog early. Rain/Snow. Temperatures 30F early increasing to 42F PM
WIND CONDITIONS:	Speed: 10-15k Direction: E shifting to NW PM
PRIOR STORM EVENTS:	N/A
DREDGE / SCOW Position:	: Northing/Easting: CAD Cell #3
TYPE OF WATER QUALITY	/ MONITORING EVENT: TOP CAD Dredging / BTM CAD Dredging / Disposal
TIDE INFORMATION:	High: 1237/1305 Low: 0630/1910
WAS WATER QUALITY SA	MPLING PERFORMED? (YES/NO): N IF YES, ATTACH COC FORMS
GENERAL NOTES:	Disposal into CAD Cell #3 occurred at 0840.



PRIOR STORM EVENTS:	N/A			<u> </u>					
DREDGE / SCOW Position: Northing/Easting: CAD Cell #3									EX
TYPE OF WATER QUALIT	Y MONITORING EVENT	: TOP CAD	Dredging / BTI	M CAD Dredgi	ing / Disposa	al		- /\ I_	Л— X
TIDE INFORMATION: High: 1237/1305 Low: 0630/1910									
WAS WATER QUALITY SA	AMPLING PERFORMED	? (YES/NO)	: N	IF YES, ATTA	CH COC FOR	MS			
GENERAL NOTES:	Disposal into CAD Ce	ell #3 occurr		•				_	
	Sand capping operati	ions were ur	nderway at the B	Borrow Pit Site	e just south o	f the LHCC.			
					UP-CURRI	NT			
					UP-CURKI	<u> </u>			
		1							
Monitoring ID #	NORTHING / EASTING	TIME	TOTAL WATER	SAMPLE	TURBIDITY	GPS FILE NAME	TIDAL STAGE	RELATIVE POSITION	NUMBER OF HOURS
incincorning is in			DEPTH (ft)	DEPTH (ft)	(NTUs)			OF MEASUREMENT	DREDGING
120913-00-1-1	2695083 / 814119	0800		1	1.5	-	Flooding tide	2001 C of Disposal	0
120913-00-1-5.5	20930037614119	0802	11.5	5.5	3.4	-	Flooding tide	200' S of Disposal	U
120913-00-1-11	1	0804		11	4.3				
			AVERAGE T	TURBIDITY:	3.07				
	1								
120913-01-1-1	0005000 / 045054	0842	-	1	1.3	- 1	Flore dia contra	00010 - (Di	
120913-01-1-16.5	2695083 / 815054	0844	33.8	16.5	3.2	-l l	Flooding tide	200' S of Disposal	post
120913-01-1-33	<u> </u>	0846		33	4.5				
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			AVERAGE T	TURBIDITY:	Down-Curr	rent			
			AVERAGE T	TURBIDITY:	Down-Curr	rent			
Markada D.	NODELING (FACENCE		AVERAGE T	FURBIDITY: SAMPLE	Down-Curr TURBIDITY		TRU CTOS	DISTANCE FROM	NUMBER OF HOURS
Monitoring ID #	NORTHING / EASTING	ТІМЕ				rent GPS FILE NAME	TIDAL STAGE	DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
_	NORTHING / EASTING		TOTAL WATER	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)		TIDAL STAGE	DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
120913-00-9-1		0807	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)			LOCATION	DREDGING
120913-00-9-1 120913-00-9-3.5	NORTHING / EASTING 2697208 / 814920	0807 0809	TOTAL WATER	SAMPLE DEPTH (ft) 1 3.5	TURBIDITY (NTUs) 2.7 2.7		TIDAL STAGE Flooding tide	DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING 0
120913-00-9-1		0807	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft) 1 3.5 7	2.7 2.7 2.8			LOCATION	DREDGING
120913-00-9-1 120913-00-9-3.5		0807 0809	TOTAL WATER DEPTH (ft) 7.3 AVERAGE 1	SAMPLE DEPTH (ft) 1 3.5 7 FURBIDITY:	TURBIDITY (NTUs) 2.7 2.7 2.8 2.73			LOCATION	DREDGING
120913-00-9-1 120913-00-9-3.5		0807 0809	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft) 1 3.5 7 FURBIDITY:	2.7 2.7 2.8			LOCATION	DREDGING
120913-00-9-1 120913-00-9-3.5 120913-00-9-7		0807 0809 0811	TOTAL WATER DEPTH (ft) 7.3 AVERAGE 1	SAMPLE DEPTH (ft) 1 3.5 7 TURBIDITY: INCREASE:	TURBIDITY (NTUs) 2.7 2.7 2.8 2.73 -0.33			LOCATION	DREDGING
120913-00-9-1 120913-00-9-3.5 120913-00-9-7	2697208 / 814920	0807 0809 0811	TOTAL WATER DEPTH (ft) 7.3 AVERAGE T TURBIDITY I	SAMPLE DEPTH (ft) 1 3.5 7 TURBIDITY: INCREASE:	TURBIDITY (NTUs) 2.7 2.7 2.8 2.73 -0.33		Flooding tide	LOCATION 200' N of Disposal	DREDGING 0
120913-00-9-1 120913-00-9-3.5 120913-00-9-7 120913-01-9-1 120913-01-9-2.5		0807 0809 0811 0917 0919	TOTAL WATER DEPTH (ft) 7.3 AVERAGE 1	SAMPLE DEPTH (ft) 1 3.5 7 FURBIDITY: INCREASE: 1 2.5	TURBIDITY (NTUs) 2.7 2.7 2.8 2.73 -0.33			LOCATION	DREDGING
120913-00-9-1 120913-00-9-3.5 120913-00-9-7	2697208 / 814920	0807 0809 0811	TOTAL WATER DEPTH (ft) 7.3 AVERAGE T TURBIDITY	SAMPLE DEPTH (ft) 1 3.5 7 TURBIDITY: INCREASE: 1 2.5 4.5	TURBIDITY (NTUs) 2.7 2.7 2.8 2.73 -0.33 5.9 6.7 9.8		Flooding tide	LOCATION 200' N of Disposal	DREDGING 0
120913-00-9-1 120913-00-9-3.5 120913-00-9-7 120913-01-9-1 120913-01-9-2.5	2697208 / 814920	0807 0809 0811 0917 0919	TOTAL WATER DEPTH (ft) 7.3 AVERAGE T TURBIDITY 5 AVERAGE TAVERAGE TAVER	SAMPLE DEPTH (ft) 1 3.5 7 TURBIDITY: INCREASE: 1 2.5 4.5 TURBIDITY:	TURBIDITY (NTUs) 2.7 2.7 2.8 2.73 -0.33 5.9 6.7 9.8 7.47		Flooding tide	LOCATION 200' N of Disposal	DREDGING 0
120913-00-9-1 120913-00-9-3.5 120913-00-9-7 120913-01-9-1 120913-01-9-2.5	2697208 / 814920	0807 0809 0811 0917 0919	TOTAL WATER DEPTH (ft) 7.3 AVERAGE T TURBIDITY	SAMPLE DEPTH (ft) 1 3.5 7 TURBIDITY: INCREASE: 1 2.5 4.5 TURBIDITY:	TURBIDITY (NTUs) 2.7 2.7 2.8 2.73 -0.33 5.9 6.7 9.8		Flooding tide	LOCATION 200' N of Disposal	DREDGING 0
120913-00-9-1 120913-00-9-3.5 120913-00-9-7 120913-01-9-1 120913-01-9-2.5	2697208 / 814920	0807 0809 0811 0917 0919	TOTAL WATER DEPTH (ft) 7.3 AVERAGE T TURBIDITY 5 AVERAGE TAVERAGE TAVER	SAMPLE DEPTH (ft) 1 3.5 7 TURBIDITY: INCREASE: 1 2.5 4.5 TURBIDITY:	TURBIDITY (NTUs) 2.7 2.7 2.8 2.73 -0.33 5.9 6.7 9.8 7.47		Flooding tide	LOCATION 200' N of Disposal	DREDGING 0
120913-00-9-1 120913-00-9-3.5 120913-00-9-7 120913-01-9-1 120913-01-9-2.5	2697208 / 814920	0807 0809 0811 0917 0919	TOTAL WATER DEPTH (ft) 7.3 AVERAGE T TURBIDITY 5 AVERAGE TAVERAGE TAVER	SAMPLE DEPTH (ft) 1 3.5 7 TURBIDITY: INCREASE: 1 2.5 4.5 TURBIDITY:	TURBIDITY (NTUs) 2.7 2.7 2.8 2.73 -0.33 5.9 6.7 9.8 7.47		Flooding tide	LOCATION 200' N of Disposal	DREDGING 0
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120913-00-9-1 120913-00-9-3.5 120913-00-9-7 120913-01-9-1 120913-01-9-2.5	2697208 / 814920	0807 0809 0811 0917 0919	TOTAL WATER DEPTH (ft) 7.3 AVERAGE 1 TURBIDITY 5 AVERAGE 1 TURBIDITY	SAMPLE DEPTH (ft) 1 3.5 7 TURBIDITY: INCREASE: 1 2.5 4.5 TURBIDITY: INCREASE:	TURBIDITY (NTUs) 2.7 2.7 2.8 2.73 -0.33 5.9 6.7 9.8 7.47		Flooding tide	LOCATION 200' N of Disposal	DREDGING 0
120913-00-9-1 120913-00-9-3.5 120913-00-9-7 120913-01-9-1 120913-01-9-2.5	2697208 / 814920	0807 0809 0811 0917 0919	TOTAL WATER DEPTH (ft) 7.3 AVERAGE T TURBIDITY I 5 AVERAGE T TURBIDITY I	SAMPLE DEPTH (ft) 1 3.5 7 TURBIDITY: INCREASE: 1 2.5 4.5 TURBIDITY: INCREASE:	TURBIDITY (NTUs) 2.7 2.7 2.8 2.73 -0.33 5.9 6.7 9.8 7.47		Flooding tide	LOCATION 200' N of Disposal	DREDGING 0
120913-00-9-1 120913-00-9-3.5 120913-00-9-7 120913-01-9-1 120913-01-9-2.5	2697208 / 814920	0807 0809 0811 0917 0919	TOTAL WATER DEPTH (ft) 7.3 AVERAGE 1 TURBIDITY 5 AVERAGE 1 TURBIDITY	SAMPLE DEPTH (ft) 1 3.5 7 TURBIDITY: INCREASE: 1 2.5 4.5 TURBIDITY: INCREASE:	TURBIDITY (NTUs) 2.7 2.7 2.8 2.73 -0.33 5.9 6.7 9.8 7.47		Flooding tide	LOCATION 200' N of Disposal	DREDGING 0
120913-00-9-1 120913-00-9-3.5 120913-00-9-7 120913-01-9-1 120913-01-9-2.5	2697208 / 814920	0807 0809 0811 0917 0919	TOTAL WATER DEPTH (ft) 7.3 AVERAGE 1 TURBIDITY 5 AVERAGE 1 TURBIDITY	SAMPLE DEPTH (ft) 1 3.5 7 TURBIDITY: INCREASE: 1 2.5 4.5 TURBIDITY: INCREASE:	TURBIDITY (NTUs) 2.7 2.7 2.8 2.73 -0.33 5.9 6.7 9.8 7.47		Flooding tide	LOCATION 200' N of Disposal	DREDGING 0
120913-00-9-1 120913-00-9-3.5 120913-00-9-7 120913-01-9-1 120913-01-9-2.5	2697208 / 814920	0807 0809 0811 0917 0919	TOTAL WATER DEPTH (ft) 7.3 AVERAGE 1 TURBIDITY 5 AVERAGE 1 TURBIDITY	SAMPLE DEPTH (ft) 1 3.5 7 TURBIDITY: INCREASE: 1 2.5 4.5 TURBIDITY: INCREASE:	TURBIDITY (NTUs) 2.7 2.7 2.8 2.73 -0.33 5.9 6.7 9.8 7.47		Flooding tide	LOCATION 200' N of Disposal	DREDGING 0
120913-00-9-1 120913-00-9-3.5 120913-00-9-7 120913-01-9-1 120913-01-9-2.5	2697208 / 814920	0807 0809 0811 0917 0919	TOTAL WATER DEPTH (ft) 7.3 AVERAGE T TURBIDITY 5 AVERAGE T TURBIDITY AVERAGE T TURBIDITY	SAMPLE DEPTH (ft) 1 3.5 7 FURBIDITY: INCREASE: 1 2.5 4.5 FURBIDITY: INCREASE: FURBIDITY: INCREASE:	TURBIDITY (NTUs) 2.7 2.7 2.8 2.73 -0.33 5.9 6.7 9.8 7.47		Flooding tide	LOCATION 200' N of Disposal	DREDGING 0
120913-00-9-1 120913-00-9-3.5 120913-00-9-7 120913-01-9-1 120913-01-9-2.5	2697208 / 814920	0807 0809 0811 0917 0919	TOTAL WATER DEPTH (ft) 7.3 AVERAGE T TURBIDITY 1 5 AVERAGE T TURBIDITY 1 AVERAGE T TURBIDITY 1	SAMPLE DEPTH (ft) 1 3.5 7 TURBIDITY: INCREASE: 1 2.5 4.5 TURBIDITY: INCREASE:	TURBIDITY (NTUs) 2.7 2.7 2.8 2.73 -0.33 5.9 6.7 9.8 7.47		Flooding tide	LOCATION 200' N of Disposal	DREDGING 0
120913-00-9-1 120913-00-9-3.5 120913-00-9-7 120913-01-9-1 120913-01-9-2.5	2697208 / 814920	0807 0809 0811 0917 0919	TOTAL WATER DEPTH (ft) 7.3 AVERAGE T TURBIDITY 5 AVERAGE T TURBIDITY AVERAGE T TURBIDITY	SAMPLE DEPTH (ft) 1 3.5 7 TURBIDITY: INCREASE: 1 2.5 4.5 TURBIDITY: INCREASE:	TURBIDITY (NTUs) 2.7 2.7 2.8 2.73 -0.33 5.9 6.7 9.8 7.47		Flooding tide	LOCATION 200' N of Disposal	DREDGING 0
120913-00-9-1 120913-00-9-3.5 120913-00-9-7 120913-01-9-1 120913-01-9-2.5	2697208 / 814920	0807 0809 0811 0917 0919	TOTAL WATER DEPTH (ft) 7.3 AVERAGE T TURBIDITY 1 5 AVERAGE T TURBIDITY 1 AVERAGE T TURBIDITY 1	SAMPLE DEPTH (ft) 1 3.5 7 TURBIDITY: INCREASE: 1 2.5 4.5 TURBIDITY: INCREASE:	TURBIDITY (NTUs) 2.7 2.7 2.8 2.73 -0.33 5.9 6.7 9.8 7.47		Flooding tide	LOCATION 200' N of Disposal	DREDGING 0
120913-00-9-1 120913-00-9-3.5 120913-00-9-7 120913-01-9-1 120913-01-9-2.5	2697208 / 814920	0807 0809 0811 0917 0919	TOTAL WATER DEPTH (ft) 7.3 AVERAGE T TURBIDITY 1 5 AVERAGE T TURBIDITY 1 AVERAGE T TURBIDITY 1	SAMPLE DEPTH (ft) 1 3.5 7 TURBIDITY: INCREASE: 1 2.5 4.5 TURBIDITY: INCREASE:	TURBIDITY (NTUs) 2.7 2.7 2.8 2.73 -0.33 5.9 6.7 9.8 7.47		Flooding tide	LOCATION 200' N of Disposal	DREDGING 0
120913-00-9-1 120913-00-9-3.5 120913-00-9-7 120913-01-9-1 120913-01-9-2.5	2697208 / 814920	0807 0809 0811 0917 0919	TOTAL WATER DEPTH (ft) 7.3 AVERAGE T TURBIDITY 1 5 AVERAGE T TURBIDITY 1 AVERAGE T TURBIDITY 1	SAMPLE DEPTH (ft) 1 3.5 7 TURBIDITY: INCREASE: 1 2.5 4.5 TURBIDITY: INCREASE:	TURBIDITY (NTUs) 2.7 2.7 2.8 2.73 -0.33 5.9 6.7 9.8 7.47		Flooding tide	LOCATION 200' N of Disposal	DREDGING 0
120913-00-9-1 120913-00-9-3.5 120913-00-9-7 120913-01-9-1 120913-01-9-2.5	2697208 / 814920	0807 0809 0811 0917 0919	TOTAL WATER DEPTH (ft) 7.3 AVERAGE T TURBIDITY I 5 AVERAGE T TURBIDITY I AVERAGE T TURBIDITY I AVERAGE T TURBIDITY I AVERAGE T TURBIDITY I	SAMPLE DEPTH (ft) 1 1 3.5 7 TURBIDITY: INCREASE: 1 2.5 4.5 TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE: INCREASE:	TURBIDITY (NTUs) 2.7 2.7 2.8 2.73 -0.33 5.9 6.7 9.8 7.47		Flooding tide	LOCATION 200' N of Disposal	DREDGING 0
120913-00-9-1 120913-00-9-3.5 120913-00-9-7 120913-01-9-1 120913-01-9-2.5	2697208 / 814920	0807 0809 0811 0917 0919	TOTAL WATER DEPTH (ft) 7.3 AVERAGE T TURBIDITY 1 5 AVERAGE T TURBIDITY 1 AVERAGE T TURBIDITY 1	SAMPLE DEPTH (ft) 1 3.5 7 TURBIDITY: INCREASE: 1 2.5 4.5 TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE:	TURBIDITY (NTUs) 2.7 2.7 2.8 2.73 -0.33 5.9 6.7 9.8 7.47		Flooding tide	LOCATION 200' N of Disposal	DREDGING 0

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

PROJECT:	New Bedford Harbor Lower Harbor CAD Cell
JOB NUMBER:	6724
SURVEY DATE:	09 December 2013
MONITORS:	K. Ryan, C. Stillman
WEATHER CONDITIONS:	Fog early. Rain/Snow. Temperatures 30F early increasing to 42F PM
WIND CONDITIONS:	Speed: 10-15k Direction: E shifting to NW PM
PRIOR STORM EVENTS:	N/A
DREDGE / SCOW Position:	Northing/Easting: 2696900 / 815080
TYPE OF WATER QUALITY	MONITORING EVENT: TOP CAD Dredging / BTM CAD Dredging / Disposal
TIDE INFORMATION:	High: 1237/1305 Low: 0630/1910
WAS WATER QUALITY SA	MPLING PERFORMED? (YES/NO): N IF YES, ATTACH COC FORMS



MAC WATER OLIALITY C		2 (VEC/NO		15 VEC. ATTA	011 000 505			_ / \1	_/\
GENERAL NOTES:	Dredging begins at 09			IF YES, ATTA 1615	CH COC FOR	CIVIS		_	
					UP-CURRI	ENT_			
		ī							
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
20913-00-1-1		0935		1	4.4				
20913-00-1-6.5	2696587 / 814732	0937	13.7	6.5	3.8	4	Flooding tide	200' S of Dredge	0
20913-00-1-13		0939	AVERAGE	13	5.7 4.63				
			AVERAGE	TURBIDITT:	4.03				
20913-02-1-1		1134		1	2.8				
20913-02-1-6.5	2696416 / 814824	1136	13.7	6.5	3.2]	Flooding tide	200' S of Dredge	2
20913-02-1-13		1138		13	3.8				
			AVERAGE	TURBIDITY:	3.27	_			
20913-04-1-1	I	1324		1	3			1	
20913-04-1-4.5	2697282 / 815006	1326	10.1	4.5	6.9	j	Ebbing	200' N of Dredge	4
20913-04-1-9		1328		9	9				
			AVERAGE	TURBIDITY:	6.30	_			
20913-06-1-1		1527	1	1	3.6	1		1 1	
20913-06-1-3	2697087 / 815156	1529	6.4	3	3.9	1	Ebbing	200' N of Dredge	6
20913-06-1-6		1531	1	6	5.3	1			
			AVERAGE	TURBIDITY:	4.27				
	1	1	T		1	т п		т т	
	=		-			1			
			1			1			
			AVERAGE 1	TURBIDITY:]			
					Down-Cur	rent			
		т			DOWN OUT	i Citt			
Monitoring ID #	NORTHING / EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM LOCATION	NUMBER OF HOUR DREDGING
20913-00-9-1	2697366 / 814972	0944	_	1	3.5	-	Election did	0001N of Decides	
20913-00-9-4	26973667814972	0946	8.1	4	4.2	-	Flooding tide	200' N of Dredge	0
20913-00-9-8		0948	AVERAGE	8 TI IDRIDITY:	5.2 4.30	 			
			TURBIDITY		-0.33	1			
						- -			
20913-02-9-1	2007472 / 045027	1141	-1	1	3.2	4 l	Flooding tide	200! N. of Drocker	2
20913-02-9-5 20913-02-9-10	2697172 / 815037	1143 1145	11	5 10	8.9 8.2	-{	Flooding tide	200' N of Dredge	2
20313-02-3-10		1145	AVERAGE		6.77	 			
			TURBIDITY		3.50	1			
20913-04-9-1		1331		1	3.2]]			
20913-04-9-5	2696484 / 815070	1333	10.6	5	4.5]	Ebbing	200' S of Dredge	4
20913-04-9-10		1335		10	12.7				
			AVERAGE		6.80	-			
			TURBIDITY	INCREASE:	0.50	_			
20012 06 0 1		1522	1	4	4.7	1		1	

1532 1534 120913-06-9-1 200' S of Dredge 2696309 / 815229 Ebbing 6 120913-06-9-8 16.8 8 6 120913-06-9-16 1536 16 6.6 AVERAGE TURBIDITY: 5.77 TURBIDITY INCREASE: 1.50 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:	11 December 2013
MONITORS:	K. Ryan, K. Miller
WEATHER CONDITIONS:	Ptly. cloudy, clearing. Temperatures 25F AM increasing to 30F PM
WIND CONDITIONS:	Speed: 10-15k Direction: W
PRIOR STORM EVENTS:	N/A
DREDGE / SCOW Position	: Northing/Easting: CAD Cell #3
TYPE OF WATER QUALITY	Y MONITORING EVENT: TOP CAD Dredging / BTM CAD Dredging / Disposal
TIDE INFORMATION:	High: 0237/1505 Low: 0938/2110
WAS WATER QUALITY SA	MPLING PERFORMED? (YES/NO): N IF YES, ATTACH COC FORMS
GENERAL NOTES:	Disposal into CAD Cell #3 occurred at 0804



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					UP-CURRE	:N ſ			
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
121113-00-1-1	2007244 / 045264	0730	1 1	1	2.4		Ebbino	200! N of Disposel	0
121113-00-1-2 121113-00-1-3	2697211 / 815261	0732 0734	3.9	3	4.1 4.7	1 1	Ebbing	200' N of Disposal	0
121113-00-1-3	-	0734	AVERAGE 1		3.73				
121112 01 1 1	_	0006	1	1	1 44				
121113-01-1-1 121113-01-1-11.5	2696962 / 815525	0806 0808	23.8	1 11.5	4.1 7.2	1 1	Ebbing	200' N of Disposal	post
121113-01-1-23		0810		23	7.5	1			
			AVERAGE 1	TURBIDITY:	6.27]			
] [
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		l .	AVERAGE 1	TURBIDITY:					
			717210102						
	_	-	-			- 1			
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		-	AVERAGE 1	TURBIDITY:]			
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			11/501053	TI IDDIDITY					
			AVERAGE 1	TURBIDITY:	<u> </u>]			
		-			Down-Curr	<u>ent</u>			
Monitoring ID #	NORTHING / EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM	NUMBER OF HOURS
121113-00-9-1	+		1		(NTUs)			LOCATION	DREDGING
	2696476 / 815120	0740 0742	6.2	1	4.3				DREDGING 0
121113-00-9-3 121113-00-9-6	2696476 / 815120	0740 0742 0744	6.2				Ebbing	200' S of Disposal	
121113-00-9-3	2696476 / 815120	0742	AVERAGE 1	1 3 6 TURBIDITY:	4.3 3.8 4.4 4.17				
121113-00-9-3	2696476 / 815120	0742		1 3 6 TURBIDITY:	4.3 3.8 4.4				
121113-00-9-3 121113-00-9-6 121113-01-9-1		0742 0744	AVERAGE 1 TURBIDITY	1 3 6 TURBIDITY: INCREASE:	4.3 3.8 4.4 4.17 0.43		Ebbing	200' S of Disposal	0
121113-00-9-3 121113-00-9-6 121113-01-9-1 121113-01-9-5.5	2696476 / 815120 2696421 / 815708	0742 0744 0815 0817	AVERAGE 1	1 3 6 TURBIDITY: INCREASE: 1 5.5	4.3 3.8 4.4 4.17 0.43 5.5 5.7				
121113-00-9-3 121113-00-9-6 121113-01-9-1		0742 0744	AVERAGE 1 TURBIDITY	1 3 6 TURBIDITY: INCREASE: 1 5.5	4.3 3.8 4.4 4.17 0.43		Ebbing	200' S of Disposal	0
121113-00-9-3 121113-00-9-6 121113-01-9-1 121113-01-9-5.5		0742 0744 0815 0817	AVERAGE 1 TURBIDITY	1 3 6 FURBIDITY: INCREASE: 1 5.5 11 FURBIDITY:	4.3 3.8 4.4 4.17 0.43 5.5 5.7 5.7		Ebbing	200' S of Disposal	0
121113-00-9-3 121113-00-9-6 121113-01-9-1 121113-01-9-5.5		0742 0744 0815 0817	AVERAGE 1 TURBIDITY 11.1 AVERAGE 1	1 3 6 FURBIDITY: INCREASE: 1 5.5 11 FURBIDITY:	4.3 3.8 4.4 4.17 0.43 5.5 5.7 5.7 5.63		Ebbing	200' S of Disposal	0
121113-00-9-3 121113-00-9-6 121113-01-9-1 121113-01-9-5.5		0742 0744 0815 0817	AVERAGE 1 TURBIDITY 11.1 AVERAGE 1	1 3 6 FURBIDITY: INCREASE: 1 5.5 11 FURBIDITY:	4.3 3.8 4.4 4.17 0.43 5.5 5.7 5.7 5.63		Ebbing	200' S of Disposal	0
121113-00-9-3 121113-00-9-6 121113-01-9-1 121113-01-9-5.5		0742 0744 0815 0817	AVERAGE 1 TURBIDITY 11.1 AVERAGE 1 TURBIDITY	1 3 6 FURBIDITY: INCREASE: 1 5.5 11 FURBIDITY: INCREASE:	4.3 3.8 4.4 4.17 0.43 5.5 5.7 5.7 5.63		Ebbing	200' S of Disposal	0
121113-00-9-3 121113-00-9-6 121113-01-9-1 121113-01-9-5.5		0742 0744 0815 0817	AVERAGE 1 TURBIDITY 11.1 AVERAGE 1	1 3 6 TURBIDITY: INCREASE: 1 5.5 11 TURBIDITY: INCREASE:	4.3 3.8 4.4 4.17 0.43 5.5 5.7 5.7 5.63		Ebbing	200' S of Disposal	0
121113-00-9-3 121113-00-9-6 121113-01-9-1 121113-01-9-5.5		0742 0744 0815 0817	AVERAGE 1 TURBIDITY 11.1 AVERAGE 1 TURBIDITY AVERAGE 1	1 3 6 TURBIDITY: INCREASE: 1 5.5 11 TURBIDITY: INCREASE:	4.3 3.8 4.4 4.17 0.43 5.5 5.7 5.7 5.63		Ebbing	200' S of Disposal	0
121113-00-9-3 121113-00-9-6 121113-01-9-1 121113-01-9-5.5		0742 0744 0815 0817	AVERAGE 1 TURBIDITY 11.1 AVERAGE 1 TURBIDITY AVERAGE 1	1 3 6 TURBIDITY: INCREASE: 1 5.5 11 TURBIDITY: INCREASE:	4.3 3.8 4.4 4.17 0.43 5.5 5.7 5.7 5.63		Ebbing	200' S of Disposal	0
121113-00-9-3 121113-00-9-6 121113-01-9-1 121113-01-9-5.5		0742 0744 0815 0817	AVERAGE 1 TURBIDITY 11.1 AVERAGE 1 TURBIDITY AVERAGE 1 TURBIDITY	1 3 6 FURBIDITY: INCREASE: 1 5.5 11 FURBIDITY: INCREASE: IURBIDITY: INCREASE: IURBIDITY:	4.3 3.8 4.4 4.17 0.43 5.5 5.7 5.7 5.63		Ebbing	200' S of Disposal	0
121113-00-9-3 121113-00-9-6 121113-01-9-1 121113-01-9-5.5		0742 0744 0815 0817	AVERAGE 1 TURBIDITY 11.1 AVERAGE 1 TURBIDITY AVERAGE 1	1 3 6 FURBIDITY: INCREASE: 1 5.5 11 FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: FURBIDITY: FURBIDITY: FURBIDITY: FURBIDITY: FURBIDITY:	4.3 3.8 4.4 4.17 0.43 5.5 5.7 5.7 5.63		Ebbing	200' S of Disposal	0
121113-00-9-3 121113-00-9-6 121113-01-9-1 121113-01-9-5.5		0742 0744 0815 0817	AVERAGE 1 TURBIDITY 11.1 AVERAGE 1 TURBIDITY AVERAGE 1 AVERAGE 1 AVERAGE 1	1 3 6 FURBIDITY: INCREASE: 1 5.5 11 FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: FURBIDITY: FURBIDITY: FURBIDITY: FURBIDITY: FURBIDITY:	4.3 3.8 4.4 4.17 0.43 5.5 5.7 5.7 5.7		Ebbing	200' S of Disposal	0
121113-00-9-3 121113-00-9-6 121113-01-9-1 121113-01-9-5.5		0742 0744 0815 0817	AVERAGE 1 TURBIDITY 11.1 AVERAGE 1 TURBIDITY AVERAGE 1 AVERAGE 1 AVERAGE 1	1 3 6 FURBIDITY: INCREASE: 1 5.5 11 FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: FURBIDITY: FURBIDITY: FURBIDITY: FURBIDITY: FURBIDITY:	4.3 3.8 4.4 4.17 0.43 5.5 5.7 5.7 5.7		Ebbing	200' S of Disposal	0
121113-00-9-3 121113-00-9-6 121113-01-9-1 121113-01-9-5.5		0742 0744 0815 0817	AVERAGE 1 TURBIDITY 11.1 AVERAGE 1 TURBIDITY AVERAGE 1 TURBIDITY AVERAGE 1 TURBIDITY AVERAGE 1 AVERAGE 1 AVERAGE 1	1 3 6 FURBIDITY: INCREASE: 1 5.5 11 FURBIDITY: INCREASE: INCREASE	4.3 3.8 4.4 4.17 0.43 5.5 5.7 5.7 5.7		Ebbing	200' S of Disposal	0
121113-00-9-3 121113-00-9-6 121113-01-9-1 121113-01-9-5.5		0742 0744 0815 0817	AVERAGE 1 TURBIDITY 11.1 AVERAGE 1 TURBIDITY AVERAGE 1 TURBIDITY AVERAGE 1 TURBIDITY	1 3 6 FURBIDITY: INCREASE: 1 5.5 11 FURBIDITY: INCREASE: INCREASE	4.3 3.8 4.4 4.17 0.43 5.5 5.7 5.7 5.7		Ebbing	200' S of Disposal	0

PROJECT:	New Bedford Harbor Lower Harbor CAD Cell
JOB NUMBER:	6724
SURVEY DATE:	11 December 2013
MONITORS:	K. Ryan, K. Miller
WEATHER CONDITIONS:	Ptly. cloudy, clearing. Temperatures 25F AM increasing to 30F PM
WIND CONDITIONS:	Speed: 10-15k Direction: W
PRIOR STORM EVENTS:	N/A
DREDGE / SCOW Position:	Northing/Easting: 2696696 / 814602
TYPE OF WATER QUALITY	MONITORING EVENT: TOP CAD Dredging / BTM CAD Dredging / Disposal
TIDE INFORMATION:	High: 0237/1505 Low: 0938/2110
WAS WATER QUALITY SA	MPLING PERFORMED? (YES/NO): N IF YES, ATTACH COC FORMS



MAC WATER OLIALITY C	SAMPLING PERFORMED	023771303		U530/2110	011 000 505			_ / \1	
GENERAL NOTES:	Dredging begins at 09			IF YES, ATTA	CH COC FOR	IMS		_	
SENERAL NOTES:	Dredging begins at 09	36 and end	s for the day at	1349					
					UP-CURR	ENT			
					UF-COKK	<u>EN I</u>			
		ſ							
Monitoring ID #	NORTHING / EASTING	TIME	TOTAL WATER	SAMPLE	TURBIDITY	GPS FILE NAME	TIDAL STAGE	RELATIVE POSITION	NUMBER OF HOL
Worldoning ID #	NORTHING / EASTING	THVIC	DEPTH (ft)	DEPTH (ft)	(NTUs)	GF3 FILE NAME	TIDAL STAGE	OF MEASUREMENT	DREDGING
21113-00-1-1		0935	1	1	3.7				
121113-00-1-3	2696646 / 815060	0937	6.4	3	6.8	1	Slack / Flooding tide	200' S of Dredge	0
121113-00-1-6		0939	1	6	7.3	1			
			AVERAGE	TURBIDITY:	5.93]			
104440 00 4 4		4400	1	4	4.0	1 1			
121113-02-1-1	2696613 / 814732	1139	4.0	1 7.5	4.3	-	Flooding tide	200' S of Dredge	2
121113-02-1-7.5	20900137014732	1141	16	7.5 15	6	-	r looding tide	200 3 of Dreage	2
121113-02-1-15		1142	AVERAGE		7.4 5.90	 			
			II/(OL		3.00				
121113-04-1-1	0000040 /04404	1329		1	6.6		Fig. 61	00010 15	
121113-04-1-4.5	2696648 / 814945	1331	9.7	4.5	7.1	4 1	Flooding tide	200' S of Dredge	4
121113-04-1-9		1333	A1/E5 4 6 = 1	9	7.5	1			
			AVERAGE	IURBIDITY:	7.07	J			
121113-06-1-1		1525		1	5.2	T I			
121113-06-1-5	2696999 / 814938	1527	10.3	5	5.4]	Ebbing	200' N of Dredge	6
121113-06-1-10		1529	1	10	5.1	1			
			AVERAGE	TURBIDITY:	5.23				
	_		4			-			
			-			-			
			AVERAGE 1	TI IDDIDITI	 	 			
			AVERAGE	IONBIDITT.		_			
					Down-Cur	rent			
		Ī	TOTAL WATER	SAMPLE	TURBIDITY			DISTANCE FROM	NUMBER OF HOU
Monitoring ID #	NORTHING / EASTING	TIME	DEPTH (ft)	DEPTH (ft)	(NTUs)	GPS FILE NAME	TIDAL STAGE	LOCATION	DREDGING
121113-00-9-1		0948		1	4.45				
121113-00-9-1.5	2697175 / 815326	0950	3.6	1.5	5	1	Flooding tide	200' N of Dredge	0
121113-00-9-3		0952		3	4				
			AVERAGE	TURBIDITY:	9.00				
			TURBIDITY	INCREASE:	3.07				
121113-02-9-1	1	1147	1	1	6	1 1		1	
121113-02-9-1	2697328 / 815246	1147	5.2	2.5	6.3	1 I	Flooding tide	200' N of Dredge	2
121113-02-9-2.5		1151	J.2	5	5.8	┪ ┃	. issuing ads	_50 11 0. 5. 5. 5 dgc	_
.23 02 0 0	•	1101	AVERAGE 1		6.03	<u> </u>			
			TURBIDITY		0.13	1			
121113-04-9-1		1337	↓	1	12.5	↓ ̄ ̄ ̄		000111 1-	
121113-04-9-3.5	2697200 / 815179	1339	7.5	3.5	10.8	.↓	Flooding tide	200' N of Dredge	4
121113-04-9-7		1341		7	13				
			AVERAGE		12.10	4			
			TURBIDITY	INCREASE:	5.03	_			
121113-06-9-1	1	1533	Т	1	4.1	<u> </u>			
121113-06-9-6.5	2696374 / 814789	1535	13.4	6.5	4.1	1	Ebbing	200' S of Dredge	6
121113-06-9-13	7	1537	1	13	3.8	1	<u> </u>		
	•		AVEDAGE 1		3.07	1		•	

AVERAGE TURBIDITY:

TURBIDITY INCREASE:

AVERAGE TURBIDITY: TURBIDITY INCREASE: 3.97

-1.27

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

PROJECT:	New Bedford Harbor Lower Harbor CAD Cell
JOB NUMBER:	6724
SURVEY DATE:	13 December 2013
MONITORS:	M. Tumolo
WEATHER CONDITIONS:	Ptly. Cloudy, clearing. Temperature 14F AM increasing to 30F PM
WIND CONDITIONS:	Speed: 10-15k Direction: W
PRIOR STORM EVENTS:	N/A
DREDGE / SCOW Position:	Northing/Easting:
TYPE OF WATER QUALITY	MONITORING EVENT: TOP CAD Dredging / BTM CAD Dredging / Disposal
TIDE INFORMATION:	High: 0435/1700 Low: 1114/2223
WAS WATER QUALITY SA	MPLING PERFORMED? (YES/NO): N IF YES ATTACH COC FORMS



GENERAL NOTES:	Dredging begins at 08	350 and end	ls for the day at	1615				_	
					UP-CURRI	<u>ENT</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
121313-00-1-1		0855		1	3.3				
121313-00-1-2	2697156 / 815147	0857	4.6	2	4.6]	Ebbing	200' N of Dredge	0
121313-00-1-4		0859		4	4.1				
			AVERAGE 1	TURBIDITY:	4.00				
121313-02-1-1		1105	1	1	2.3				
121313-02-1-3.5	2697003 / 814961	1107	7.5	3.5	3.3	1 1	Ebbing / Slack	200' N of Dredge	2
121313-02-1-6		1109	1	6	3.6	1			
		-	AVERAGE 1	TURBIDITY:	3.07				
121313-04-1-1		1259		1	4.9			1	
121313-04-1-5	2696453 / 814789	1301	11	5	5.2	1	Flooding tide	200' S of Dredge	4
121313-04-1-10		1303	1	10	5.6	1 1			
			AVERAGE 1	TURBIDITY:	5.23				
121313-06-1-1		1443	1	1	6.5			I	
121313-06-1-6	2696447 / 814755	1445	12.5	6	7.4	1 1	Flooding tide	200' S of Dredge	6
121313-06-1-12		1447		12	8.2	1 1			
	•		AVERAGE 1	TURBIDITY:	7.37			-	
i		T	1		1				
]			1			
			AVERAGE 1	TI IRRIDITY:					
			AVEIGNOET	TORDIDITT.		_			
		•			Down-Cur	rent			
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
121212 00 0 1	 	0001		1				1	

		•			Down-Curi	rent			
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
121313-00-9-1		0901	J	1	5				
121313-00-9-2	2696535 / 815223	0903	5	2	5.1]	Ebbing	200' S of Dredge	0
21313-00-9-4		0905		4	7				
			AVERAGE T	URBIDITY:	5.70				
			TURBIDITY I	NCREASE:	1.70				
21313-02-9-1		1111		1	4.2				
21313-02-9-3	2696489 / 814989	1113	6.5	3	4.4	J	Ebbing / Slack	200' S of Dredge	2
21313-02-9-6		1115		6	5				
			AVERAGE T	URBIDITY:	4.53				
			TURBIDITY I	NCREASE:	1.47				
21313-04-9-1		1304		1	7.2				
121313-04-9-2	2697089 / 815036	1306	5	2	7.3		Flooding tide	200' N of Dredge	4
121313-04-9-4		1308][4	6.9				
			AVERAGE T	URBIDITY:	7.13				
			TURBIDITY I	NCREASE:	1.90				
121313-06-9-1		1448		1	8.3				
121313-06-9-6	2697008/ 814808	1450	12	6	9.5]	Flooding tide	200' N of Dredge	6
121313-06-9-11		1452] [11	9.8				
			AVERAGE T	URBIDITY:	9.20				
			TURBIDITY I	NCREASE:	1.83				
] [
] [
			AVERAGE T	URBIDITY:			·		
			TURBIDITY I	NCREASE:					
Turbidity Increase = Down-Cu									

PROJECT:	New Bedford Harbor Lower Harbor CAD Cell
JOB NUMBER:	6724
SURVEY DATE:	13 December 2013
MONITORS:	M. Tumolo
WEATHER CONDITIONS:	Ptly. Cloudy, clearing. Temperature 14F AM increasing to 30F PM
WIND CONDITIONS:	Speed: 10-15k Direction: W
PRIOR STORM EVENTS:	N/A
DREDGE / SCOW Position:	Northing/Easting: CAD Cell #3
TYPE OF WATER QUALITY	MONITORING EVENT: TOP CAD Dredging / BTM CAD Dredging / Disposal
TIDE INFORMATION:	High: 0435/1700 Low: 1114/2223
WAS WATER QUALITY SA	MPLING PERFORMED? (YES/NO): N IF YES, ATTACH COC FORMS
GENERAL NOTES:	Disposal into CAD Cell #3 occurred at 0804



IIII) FINE() KM VIII W.	Y MONITORING EVENT				ng / Disposa	al		- /A I-	기- X
TIDE INFORMATION: WAS WATER QUALITY SA		0435/1700 ? (YES/NO)		1114/2223 IF YES, ATTA	CH COC FOR	MS		_ / \1	
GENERAL NOTES:	Disposal into CAD Ce			11 120, 2112	011 000 1 011	INIO		_	
					UP-CURRI	ENT			
		т							
			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
121313-01-1-1		0805		1	4.5	T			
121313-01-1-3.5	2697048 / 815850	0807	7	3.5	3.8	1	Ebbing	200' N of Disposal	post
121313-01-1-6		0809		6	3.7	ļ			
			AVERAGE 1	TURBIDITY:	4.00				
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	<u> </u>		AVERAGE 1	I IDRINITY:					
			AVERAGE	TORBIDITT.	ļ.	_			
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	1		AVERAGE T	TURBIDITY:			ı		
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		_	AVERAGE 1	TURBIDITY:					
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			AVERAGE 1	TURBIDITY:					
					Down-Cur	rent			
	NODTHING (FACTING		TOTAL WATER	SAMPLE	TURBIDITY	000 511 5 11445	TIDAL OTAGE	DISTANCE FROM	NUMBER OF HOURS
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
121313-01-9-1		0810	DEPTH (ft)	DEPTH (ft)	(NTUs) 7.3	GPS FILE NAME		LOCATION	DREDGING
121313-01-9-1 121313-01-9-5	NORTHING / EASTING 2696215 / 815732	0810 0812	TOTAL WATER DEPTH (ft)	1 5	7.3 7.4	GPS FILE NAME	TIDAL STAGE Ebbing	DISTANCE FROM LOCATION 200' S of Disposal	NUMBER OF HOURS DREDGING
121313-01-9-1		0810	DEPTH (ft)	1 5 9	(NTUs) 7.3	GPS FILE NAME		LOCATION	DREDGING
121313-01-9-1 121313-01-9-5		0810 0812	10.4	DEPTH (ft) 1 5 9 TURBIDITY:	7.3 7.4 7.3	GPS FILE NAME		LOCATION	DREDGING
121313-01-9-1 121313-01-9-5		0810 0812	10.4 AVERAGE 1	DEPTH (ft) 1 5 9 TURBIDITY:	7.3 7.4 7.3 7.3 7.33	GPS FILE NAME		LOCATION	DREDGING
121313-01-9-1 121313-01-9-5		0810 0812	10.4 AVERAGE 1	DEPTH (ft) 1 5 9 TURBIDITY:	7.3 7.4 7.3 7.3 7.33	GPS FILE NAME		LOCATION	DREDGING
121313-01-9-1 121313-01-9-5		0810 0812	10.4 AVERAGE 1 TURBIDITY	DEPTH (ft) 1 5 9 TURBIDITY: INCREASE:	7.3 7.4 7.3 7.3 7.33	GPS FILE NAME		LOCATION	DREDGING
121313-01-9-1 121313-01-9-5		0810 0812	DEPTH (ft) 10.4 AVERAGE 1 TURBIDITY AVERAGE 1	DEPTH (ft) 1 5 9 TURBIDITY: INCREASE:	7.3 7.4 7.3 7.3 7.33	GPS FILE NAME		LOCATION	DREDGING
121313-01-9-1 121313-01-9-5		0810 0812	10.4 AVERAGE 1 TURBIDITY	DEPTH (ft) 1 5 9 TURBIDITY: INCREASE:	7.3 7.4 7.3 7.3 7.33	GPS FILE NAME		LOCATION	DREDGING
121313-01-9-1 121313-01-9-5		0810 0812	DEPTH (ft) 10.4 AVERAGE 1 TURBIDITY AVERAGE 1	DEPTH (ft) 1 5 9 TURBIDITY: INCREASE:	7.3 7.4 7.3 7.3 7.33	GPS FILE NAME		LOCATION	DREDGING
121313-01-9-1 121313-01-9-5		0810 0812	DEPTH (ft) 10.4 AVERAGE 1 TURBIDITY AVERAGE 1	DEPTH (ft) 1 5 9 TURBIDITY: INCREASE:	7.3 7.4 7.3 7.3 7.33	GPS FILE NAME		LOCATION	DREDGING
121313-01-9-1 121313-01-9-5		0810 0812	AVERAGE TURBIDITY AVERAGE TURBIDITY AVERAGE	DEPTH (ft) 1 5 9 FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: INCREASE:	7.3 7.4 7.3 7.3 7.33	GPS FILE NAME		LOCATION	DREDGING
121313-01-9-1 121313-01-9-5		0810 0812	AVERAGE 1 AVERAGE 1 TURBIDITY	DEPTH (ft) 1 5 9 FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: INCREASE:	7.3 7.4 7.3 7.3 7.33	GPS FILE NAME		LOCATION	DREDGING
121313-01-9-1 121313-01-9-5		0810 0812	AVERAGE TURBIDITY AVERAGE TURBIDITY AVERAGE	DEPTH (ft) 1 5 9 FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: INCREASE:	7.3 7.4 7.3 7.3 7.33	GPS FILE NAME		LOCATION	DREDGING
121313-01-9-1 121313-01-9-5		0810 0812	AVERAGE TURBIDITY AVERAGE TURBIDITY AVERAGE	DEPTH (ft) 1 5 9 FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: INCREASE:	7.3 7.4 7.3 7.3 7.33	GPS FILE NAME		LOCATION	DREDGING
121313-01-9-1 121313-01-9-5		0810 0812	AVERAGE TURBIDITY AVERAGE TURBIDITY AVERAGE TURBIDITY AVERAGE TURBIDITY	DEPTH (ft) 1 5 9 FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: INCREASE:	7.3 7.4 7.3 7.3 7.33	GPS FILE NAME		LOCATION	DREDGING
121313-01-9-1 121313-01-9-5		0810 0812	AVERAGE 1 TURBIDITY AVERAGE 1 TURBIDITY AVERAGE 1 AVERAGE 1 AVERAGE 1 AVERAGE 1	DEPTH (ft) 1 5 9 TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE:	7.3 7.4 7.3 7.3 7.33	GPS FILE NAME		LOCATION	DREDGING
121313-01-9-1 121313-01-9-5		0810 0812	AVERAGE TURBIDITY AVERAGE TURBIDITY AVERAGE TURBIDITY AVERAGE TURBIDITY	DEPTH (ft) 1 5 9 TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE:	7.3 7.4 7.3 7.3 7.33	GPS FILE NAME		LOCATION	DREDGING
121313-01-9-1 121313-01-9-5		0810 0812	AVERAGE 1 TURBIDITY AVERAGE 1 TURBIDITY AVERAGE 1 AVERAGE 1 AVERAGE 1 AVERAGE 1	DEPTH (ft) 1 5 9 TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE:	7.3 7.4 7.3 7.3 7.33	GPS FILE NAME		LOCATION	DREDGING
121313-01-9-1 121313-01-9-5		0810 0812	AVERAGE 1 TURBIDITY AVERAGE 1 TURBIDITY AVERAGE 1 AVERAGE 1 AVERAGE 1 AVERAGE 1	DEPTH (ft) 1 5 9 TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE:	7.3 7.4 7.3 7.3 7.33	GPS FILE NAME		LOCATION	DREDGING
121313-01-9-1 121313-01-9-5		0810 0812	AVERAGE 1 TURBIDITY AVERAGE 1 TURBIDITY AVERAGE 1 TURBIDITY AVERAGE 1 TURBIDITY	DEPTH (ft) 1 5 9 FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: INCREASE:	7.3 7.4 7.3 7.3 7.33	GPS FILE NAME		LOCATION	DREDGING
121313-01-9-1 121313-01-9-5		0810 0812	AVERAGE 1 TURBIDITY AVERAGE 1 TURBIDITY AVERAGE 1 TURBIDITY AVERAGE 1 TURBIDITY	DEPTH (ft) 1 5 9 FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: INCREASE:	7.3 7.4 7.3 7.3 7.33	GPS FILE NAME		LOCATION	DREDGING
121313-01-9-1 121313-01-9-5	2696215 / 815732	0810 0812 0814	AVERAGE 1 TURBIDITY	DEPTH (ft) 1 5 9 FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: INCREASE:	7.3 7.4 7.3 7.3 7.33	GPS FILE NAME		LOCATION	DREDGING

PROJECT:	New Bedford Harbor Lower Harbor C	AD Cell				
JOB NUMBER:	6724					
SURVEY DATE:	14 December 2013					
MONITORS:	M. Martinho, K. Ryan					
WEATHER CONDITIONS:	Early fog. Snow. Temperatures 15F e	arly, inc	reasing to 30F PM			
WIND CONDITIONS:	Speed: 5-10k	Directi	on: NNE			
PRIOR STORM EVENTS:	N/A					
DREDGE / SCOW Position	: Northing/Easting: CAD Cell #3					
TYPE OF WATER QUALIT	Y MONITORING EVENT: TOP CAD Dre	edging /	BTM CAD Dredging	/ Disposal		
TIDE INFORMATION:	High: 0528/1749	L	ow: 1150/2300			
WAS WATER QUALITY SA	MPLING PERFORMED? (YES/NO):	N	IF YES, ATTACH	COC FORMS		
GENERAL NOTES:	Disposal into CAD Cell #3 occurred a	at 0740				



TYPE OF WATER QUALIT				M CAD Dreda	ing / Dispos	al		/\	/I_ Y
TIDE INFORMATION:		0528/1749		1150/2300				- / - \ -	PEX
WAS WATER QUALITY S.				IF YES, ATTA	ACH COC FOR	RMS			
GENERAL NOTES:	Disposal into CAD Ce	ell #3 occurr	ed at 0740						
					UP-CURR	ENT			
		Ī							
Monitoring ID #	NORTHING / EASTING	TIME	TOTAL WATER	SAMPLE	TURBIDITY	GPS FILE NAME	TIDAL STAGE	RELATIVE POSITION	NUMBER OF HOURS
			DEPTH (ft)	DEPTH (ft)	(NTUs)			OF MEASUREMENT	DREDGING
121413-01-1-1		0735		1	1.9				
121413-01-1-16	7	0737	34	16	2.2	1	Ebbing	200' N of Disposal	post
121413-01-1-32	1	0739		32	2.2				
			AVERAGE	TURBIDITY:	2.10				
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			AVERAGE	IURBIDITT:	1				
					Down-Cur	rent			
		т			Down-Cur	rent			
Monitoring ID #	NORTHING / EASTING	TIME	TOTAL WATER	SAMPLE	TURBIDITY	rent GPS FILE NAME	TIDAL STAGE	DISTANCE FROM	NUMBER OF HOURS
Monitoring ID #	NORTHING / EASTING		TOTAL WATER DEPTH (ft)	DEPTH (ft)	TURBIDITY (NTUs)		TIDAL STAGE	DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
121413-01-9-1	NORTHING / EASTING	0740	DEPTH (ft)	DEPTH (ft)	TURBIDITY (NTUs)			LOCATION	DREDGING
121413-01-9-1 121413-01-9-8	NORTHING / EASTING	0740 0742	TOTAL WATER DEPTH (ft)	1 8	TURBIDITY (NTUs) 2.4 3.9		TIDAL STAGE Ebbing	DISTANCE FROM LOCATION 200' S of Disposal	NUMBER OF HOURS DREDGING
121413-01-9-1	NORTHING / EASTING	0740	DEPTH (ft)	1 8 16	TURBIDITY (NTUs) 2.4 3.9 3.5			LOCATION	DREDGING
121413-01-9-1 121413-01-9-8	NORTHING / EASTING	0740 0742	17 AVERAGE 1	DEPTH (ft) 1 8 16 TURBIDITY:	TURBIDITY (NTUs) 2.4 3.9 3.5 3.27			LOCATION	DREDGING
121413-01-9-1 121413-01-9-8	NORTHING / EASTING	0740 0742	DEPTH (ft)	DEPTH (ft) 1 8 16 TURBIDITY:	TURBIDITY (NTUs) 2.4 3.9 3.5			LOCATION	DREDGING
121413-01-9-1 121413-01-9-8	NORTHING / EASTING	0740 0742	17 AVERAGE 1	DEPTH (ft) 1 8 16 TURBIDITY:	TURBIDITY (NTUs) 2.4 3.9 3.5 3.27			LOCATION	DREDGING
121413-01-9-1 121413-01-9-8	NORTHING / EASTING	0740 0742	17 AVERAGE 1	DEPTH (ft) 1 8 16 TURBIDITY:	TURBIDITY (NTUs) 2.4 3.9 3.5 3.27			LOCATION	DREDGING
121413-01-9-1 121413-01-9-8	NORTHING / EASTING	0740 0742	DEPTH (ft) 17 AVERAGE T TURBIDITY	1 8 16 FURBIDITY: INCREASE:	TURBIDITY (NTUs) 2.4 3.9 3.5 3.27			LOCATION	DREDGING
121413-01-9-1 121413-01-9-8	NORTHING / EASTING	0740 0742	DEPTH (ft) 17 AVERAGE TURBIDITY AVERAGE TO AVERAGE T	DEPTH (ft) 1 8 16 TURBIDITY: INCREASE:	TURBIDITY (NTUs) 2.4 3.9 3.5 3.27			LOCATION	DREDGING
121413-01-9-1 121413-01-9-8	NORTHING / EASTING	0740 0742	DEPTH (ft) 17 AVERAGE T TURBIDITY	DEPTH (ft) 1 8 16 TURBIDITY: INCREASE:	TURBIDITY (NTUs) 2.4 3.9 3.5 3.27			LOCATION	DREDGING
121413-01-9-1 121413-01-9-8	NORTHING / EASTING	0740 0742	DEPTH (ft) 17 AVERAGE TURBIDITY AVERAGE TO AVERAGE T	DEPTH (ft) 1 8 16 TURBIDITY: INCREASE:	TURBIDITY (NTUs) 2.4 3.9 3.5 3.27			LOCATION	DREDGING
121413-01-9-1 121413-01-9-8	NORTHING / EASTING	0740 0742	DEPTH (ft) 17 AVERAGE TURBIDITY AVERAGE TO AVERAGE T	DEPTH (ft) 1 8 16 TURBIDITY: INCREASE:	TURBIDITY (NTUs) 2.4 3.9 3.5 3.27			LOCATION	DREDGING
121413-01-9-1 121413-01-9-8	NORTHING / EASTING	0740 0742	AVERAGE TURBIDITY AVERAGE TURBIDITY	DEPTH (ft) 1 8 16 FURBIDITY: INCREASE: FURBIDITY: INCREASE:	TURBIDITY (NTUs) 2.4 3.9 3.5 3.27			LOCATION	DREDGING
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121413-01-9-1 121413-01-9-8	NORTHING / EASTING	0740 0742	AVERAGE TURBIDITY AVERAGE TURBIDITY AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE	DEPTH (ft) 1 8 16 FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY:	TURBIDITY (NTUs) 2.4 3.9 3.5 3.27			LOCATION	DREDGING
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121413-01-9-1 121413-01-9-8	NORTHING / EASTING	0740 0742	AVERAGE TURBIDITY AVERAGE TURBIDITY AVERAGE TURBIDITY AVERAGE TURBIDITY	DEPTH (ft) 1 8 16 TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE:	TURBIDITY (NTUs) 2.4 3.9 3.5 3.27			LOCATION	DREDGING
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121413-01-9-1 121413-01-9-8	NORTHING / EASTING	0740 0742	AVERAGE TURBIDITY AVERAGE TURBIDITY AVERAGE TURBIDITY AVERAGE TURBIDITY	DEPTH (ft) 1 8 16 TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE: TURBIDITY: INCREASE:	TURBIDITY (NTUs) 2.4 3.9 3.5 3.27			LOCATION	DREDGING
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121413-01-9-1 121413-01-9-8	NORTHING / EASTING	0740 0742	AVERAGE TURBIDITY AVERAGE TURBIDITY AVERAGE TURBIDITY AVERAGE TURBIDITY AVERAGE TURBIDITY	DEPTH (ft) 1 8 16 FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: INCREASE: FURBIDITY: INCREASE:	TURBIDITY (NTUs) 2.4 3.9 3.5 3.27			LOCATION	DREDGING
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Figure 1 Lower Harbor CAD Cell Phase I – Water Quality Monitoring

