## Weekly Field Report Week: 05-11-14 through 05-17-14 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 eighth 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 28th Report for the LHCC dredging activities includes:

- Daily Inspection Reports from dredging oversight performed during the week of May 11<sup>th</sup> through May 17<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 May 11<sup>th</sup> through May 17th, 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 a minimum of one day of water quality monitoring during dredging.
  - Initiated three days of water quality monitoring during weir dewatering of disposal scows which is considered a new Project activity.
  - 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) continued LHCC dredging activities for the week using the dredge plant *Dale Pyatt*. Dredging was conducted daily May 12<sup>th</sup> through May 16<sup>th</sup>; no dredging was performed on May 11<sup>th</sup> and the dredge *Dale Pyatt* was off-line for generator maintenance on May 17<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 one plant; the tug *Lucinda Smith*; two split-hull scows - *Mighty Quinn*, and the *M.E.R.C Shevlin*, with capacities of 3800, and 4800 cubic yards, respectively; along with two small utility boats.

With time of year restrictions currently 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 footprint.

#### 2. Operational Notes:

#### **Dredging:**

Dredging of LHCC Phase I Bottom of CAD sediments continued during the week. Apex conducted two days of water quality monitoring; one day for regular dredge monitoring, and a second day (first of three days) for weir dewatering of the scows which was considered a new activity for the Project. Monitoring was performed May 14<sup>th</sup> and 16<sup>th</sup> whilst dredging and/or dewatering was being performed to ensure that these activities did not result in any exceedance of 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. Nine offshore disposal events were recorded during the week as follows – scow *Mighty Quinn* (May 12<sup>th</sup>, 14<sup>th</sup>, 15<sup>th</sup>, and 16<sup>th</sup>), and the scow *M.E.R.C Shevlin* (May 11<sup>th</sup>, 12<sup>th</sup>, 13<sup>th</sup>, 14<sup>th</sup>, and 16<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	15,000
Approximate Bottom of CAD Volume Dredged to Date*	75,220

<sup>\*</sup> Dredge volume quantities are estimated based on observed scow draft marks and an assumed density of the materials dredged. Scows may contain varying amounts of water along with the dredge materials, thereby influencing the scow draft marks and projected volumes. 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. Turbidity monitoring was performed, however since there were no exceedances, no water quality samples were collected for chemical analysis.

Prepared by:

Apex Companies, LLC

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

# Attachment 1 Daily Inspection Reports



Inspector:	Adam Hart						Date:	5/11/2014		
Contractor:	Cashman				_	Foreman/Supt:				
Weather	AM: PM:	Sunny Scatte		in. Win	ds 5-15	<b>Temperature</b> iknts. WSW	AM: PM:	54 73		
Tides	High Low		0551 1135		AM AM	1820	PM PM			
Manpower O	nsite					Equipment Ons	ite			
•	Foreman		@		Hrs	Description:			Hrs.	0
	Engineer		@		Hrs		Eddie Carro	II	Hrs.	0
	Operators		@		Hrs		Lucinda Sm	ith	Hrs.	4
	Mate		@		Hrs		Grey Skiff		Hrs.	1
	Deckhand		@		Hrs		M.E.R.C. Sh		Hrs.	0
	Other:	1	@	1	Hrs		AF Maurice		Hrs	0
							Mighty Qui	nn	Hrs.	11
Contractor Ac	-					• • • • • • • • • • • • • • • • • • • •				
_						.E.R.C. Shelvin. 0				
_					•	the scow Mighty				
_	•		-	_		bound. 1025-Tu	-			
• .	_					. 1120-Tug boat	Lucinda Sm	ith and scow	Mighty (	Ղuinn
head south thro	ugh the bridg	ge nead	ing foi	r an off	shore o	lisposal.				
Problems/Issu	ues or Action	Items:								
None / N/A										
, ,										
Visitors:										
Signature:	0 A			-			Date:	5/11/14		
Title:	Environmen	ntal Tec	hnicia	n			•	1 of 1		
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				ins	spect	ion Report				
Inspector:	Brett Young	ş, Adan	n Har	t			Date:	5/12/2014		
Contractor:	Cashman					Foreman/Supt:	Dave I	Norton		
Weather	AM: PM:	Sunny		nds 5-15k	_ knts. SV	Temperature V	AM: PM:	53 72		
Tides	High Low		06		_AM _AM	1903 1213	PM PM			
Manpower O	nsite					Equipment Ons	ite			
-	Foreman	1	@	8	Hrs	Description:	Dale Pyatt		Hrs.	11
	Engineer	1	@	11	Hrs		MERC Shelv	/in	Hrs.	6
	Operators	1	@_	11	Hrs		Mighty Qui	nn	Hrs.	4
	Mate	1	@ _	11	Hrs		Lucinda Sm	ith	Hrs.	4
	Deckhand	1	@ _	11	Hrs		Blue Skiff		Hrs.	11
	Other:	1	@	9	_ Hrs		Survey 4		Hrs	2
Contractor Ac	tivities: (Con	tinued	on n	ext page	)					
0615-No activity onsite. 0630-Da MERC Shelvin ah closed. 0744-Lu station 6+91, de	le Pyatt crew ead. 0730-D cinda Smith b	v onsite Dale Py brings	e. ME att ci the g	ERC Shelv rane load enerator	in draf s a gen to the	ts: bow 5.5', ster erator aboard th Richie Barber.  0	n 5.5'. 0711 ne Lucinda S 748-Dale Py	-Lucinda Smi mith. 0742-S ratt begins dro	th move ilt curta edging a	es the in is at cut 6
two crew go to r	epair the cur	tain. (	0813	-Survey 4	offsite	. 0818-Silt curtai	n is fixed. 0	820-Dale Pya	tt steps	back
with walking spu area.	d and begins	dredg	ging c	uts 8 & 1	0 statio	on 7+16, depth 2	3'. 0910 Edr	na ties to the	norther	n staging
Problems/Issu	ies or Action	Items	•							
None / N/A										
Visitors:										
Signature: Title:	Environmen							5/12/2014 1 of 3		
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		lı	nspecti	on Report			
Inspector:	Brett Youn	g, Adam Hart			Date:	5/12/2014	
Contractor:	Cashman			Foreman/Supt:	Dave I	Norton	
Weather	AM: PM:	Sunny Sunny. Winds 5-1	5knts. SW	Temperature	AM: PM:	53 72	
Tides	High Low	0639 0019	AM _ AM _	1903 1213	PM PM		
Contractor Ac	tivities: (Co	ntinued from Page :	1)				
south. 1020-Dal piece of silt curta Pyatt stops dred Shelvin inspected Pyatt. Mighty Qudisposal. 1320-Sdredging cuts 5 & Quinn drafts: bot 18'. 1640-Dredg scow Mighty Qui 1710-Scow Might	e Pyatt relogation and stop ging, the scool and cleared inn drafts: I silt curtain is 8 station 7 w 8', stern 8 plant Daled inn. 1707-Souty Quinn is 8	thern staging area. cates and begins dress and begins dress dredging to fix it. ow is full. MERC Sheet for offshore dispersion 4.5', stern 4.5', closed. 1324-Dale (+20, depth 19'. 156.5'. 1605-Dale Pyate Pyatt fills the scow cow Mighty Quinn it aground, dredge plano longer aground a	edging cu 1040-Silt elvin draft osal. 1244 1315-Lu Pyatt beg 00-Dale P It makes a W Mighty ( is inspecte ant Dale P	t 8 station 7+19 curtain is fixed s: bow 8', stern 4-Lucinda Smith tak gins dredging in Pyatt dredging 5 move, begins could and cleared for the state of the stat	P, depth 24'.  The Pyatt of the Pyatt of the Might of the Might of 12'. Date on the Might of for offshore of the poining for the poining for the point of the poi	1029-Dale Presumes drec Survey 4 offs ghty Quinn up Shelvin south by Quinn. 140 on 6+94, dep s 4 & 5 station le Pyatt is want disposal with morning ren	Pyatt pulls another dging. 1203-Dale ite. 1220-MERC p to the Dale th for offshore 05-Dale Pyatt oth 18'. Mighty on 6+02, depth ashing off the a draft of 12'. moval of the scow.
Problems/Issu	ies or Actior	ı Items:					
None / N/A							
Visitors:						-	_
Signature: Title:	Environme	ntal Technician	7		Page:	5/12/2014 2of3	
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## Inspection Report

Inspector: Br	ett Young, Adam Hart	Date:	5/12	/2014	
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Contractor: Cashman Foreman/Supt: Dave Norton





Dale Pyatt dredging into the MERC Shelvin

Dale Pyatt dredging into the Mighty Quinn

Visitors:

Signature:

Title:

**Environmental Technician** 

Date: 5/12/2014

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					эрсси	ion Report				
Inspector:	Adam Hart						Date:	5/13/2014		
Contractor:	Cashman					Foreman/Supt:	John I	Benoit		
Weather	AM: PM:	Sunny		nds 10-1	5knts. N	<b>Temperature</b> NE	AM: PM:	63 45		
Tides	High Low		07		AM AM	1947 1253	PM PM			
Manpower O	nsite					Equipment Ons	site			
•	Foreman	1	@	11	Hrs	Description:			Hrs.	11
	Engineer	1	@	11	Hrs	·	MERC Shelv	vin	Hrs.	6
	Operators	1	@	11	Hrs		Mighty Qui	nn	Hrs.	4
	Mate	1	@	11	Hrs		Lucinda Sm	ith	Hrs.	4
	Deckhand	1	@	11	Hrs		Blue Skiff		Hrs.	11
	Other:		@		Hrs		Survey 4		Hrs.	1
							Grey Skiff		Hrs.	1
Contractor Ac	tivities: (Con	itinued	on n	ext page	e)					
1200-Dredge pla	nt Dale Pyat	t dredg	ging i	nto the s	cow M	.E.R.C. Shelvin wi	ith a draft of	11'. 1224-S	cow M.E	R.C.
Shelvin is filled w			_	-					_	
bucket and wires		•				•			•	
1347-Survey 4 pa				_	-	•		•		
1420-Tug boat L								•		
skiffs. 1435-Tug									vin is un	tied from
the dredge plant	: Dale Pyatt a	and tug	boat	Lucinda	Smith	brings the scow	out of the si	lt curtain.		
Problems/Issu	ies or Action	Items								
None / N/A										
Visitors:										
Signature: Title:	Environmer			ian	-		Date: Page:	5/13/2014 1of3	B	
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		Inspec	ction Report			
Inspector:	Adam Hart		_	Date:	5/13/2014	
Contractor:	Cashman		Foreman/Supt:	John	Benoit	
Weather	AM: PM:	Sunny Sunny. Winds 10-15knts	<b>Temperature</b> . NE	AM: PM:	63 45	
Tides	High Low	0725 AM 0102 AM		PM PM		
Contractor Ac	tivities: (Cor	tinued from Page 1)				
1534-Small piece Quinn is tied to t 1600-Tug boat L scow Might Quir heading for an o on 5/14/14). 17 tide. 1848-All cr	e of boom ob he Dale Pyar ucinda Smit in. 1623-Tug ffshore dispo 58-Dredge p ews offsite.	is tied to the staging area beerved floating south. Crit. 1550-Tug boat Lucinda h ties to the M.E.R.C. Shell boat Lucinda Smith and osal. 1750-Dredge plant Dale Pyatt reposition No further activity.	ew goes to retriev a Smith exits the si Ivin. 1607-Dredge scow M.E.R.C. She Dale Pyatt stops dr	e the silt cu ilt curtain. I plant Dale elvin pass so redging (Mig	rtain. 1540-Si 1555-Silt curta Pyatt begins couth bound the ghty Quinn is r	cow Mighty ain is closed. dredging into the rough the bridge not filled will fill
Problems/Issu	ies or Action	Items:				
None / N/A						
Visitors:						
Signature: Title:		ntal Technician	_		5/13/2014 :2of3	B
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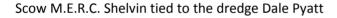


### **Inspection Report**

nspector: Adam	ı Hart	Date:	5/13/2014

Contractor: Cashman Foreman/Supt: John Benoit







Small piece of boom floating south.

Visitors:

Signature:

Title: Environmental Technician

Date: 5/13/2014

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				1118	speci	ion Report				
Inspector:	Christopher	Stillm	an, A	dam Har	t		Date:	5/14/2014		
Contractor:	Cashman/W	/eeks				Foreman/Supt:	John Be	enoit		
Weather	AM: PM:	Clear Clear.	Win	ds 10knts	s. or les	<b>Temperature</b> ss SE	AM: PM:	60 64		
Tides	High Low		08: 01:		_AM _AM		PM PM			
Manpower O	nsite					Equipment Ons	ite			
	Foreman	1	@	13	Hrs	Description:			Hrs.	12
	Engineer	1	@	13	Hrs		M.E.R.C. She	lvin	Hrs.	8
	Operators	1	@	13	Hrs	•	Mighty Quin	n	Hrs.	3
	Mate	1	@	2	Hrs		Lucinda Smit	h	Hrs.	5
	Deckhand	2	@ _	13	Hrs		Blue Skiff		Hrs.	13
	Other:	1	@	1	_ Hrs		Survey 4		Hrs	2
Contractor Ac	tivities: (Con	tinued	on n	ext page	)					
Pyatt crew arrive marks at 8' bow exits curtain, dre stops, dredge pla	es. 0705-The and stern. 0 dging resum ant begins wa Tug Lucinda S	dredg 710-Di es. 07 ash do smith r	e pla redgii 45-N wn of novir	nt Dale P ng stops, lighty Qu f split sco	yatt be Survey inn dra w Mig	mpty split scow Megins dredging into 4 enters the cur aft marks at @ 10 hty Quinn, inspector Mighty Quinn to	to the split sc tain and begi o' Bow and 9.8 cted and clean	ow Mighty ( ins surveying 8 stern. 093 red for Rhoo	Quinn, dr g. 0728- 60-Dredg de Island	raft Survey 4 ing
Problems/Issu	ies or Action	Items:	i							
None / N/A										
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		I	nspect	ion Report				
Inspector:	Christophe	r Stillman, Adam H	lart		Date:	5/14/2014		
Contractor:	Cashman/\	Veeks		Foreman/Supt	: John	Benoit		
Weather	AM: PM:	Clear Clear. Winds 10k	nts. or les	<b>Temperature</b> ss SE	AM: PM:	60 64		
Tides	High Low	0810 0145	AM AM	2031 1334	_PM _PM			
		ntinued from Page						
1100-Dredge pla Smith takes the s plant Dale Pyatt plant Dale Pyatt Dale Pyatt resum weight of 100% s Dave Norton offs Dredge plant Dal inspected and clo Survey 4 on site.	nt shifts loc split scow M stops dredg stops dredging saturated m site. 1726-V le Pyatt fills eared for Rh 1925-Surve	gs the split scow Nation to the norther lighty Quinn thoughing. 1230-Dredge ing to move the space aterial. 1620-Crew Vasher fell off buckthe scow M.E.R.C. ande Island offshor y 4 offsite. No further scow M.E.R.C.	east station  h the brice  plant Dale  lit scow No  s three mo  is repair  ket, crew  Shelvin wo  e disposa	on 6+02 in cut 7 lge headed for Fe Pyatt reposition. F.R.C. Shelvin aterial samples ing silt curtain. is working on regith a draft of 11 l. 1850-Silt curt	and begins on the second and dred westward all from the M. 1629-Silt cureplacing it. 1845-Scott	dredging. 112 Disposal site ging resumes ong side. 14 E.R.C. Shelvin rtain is repair 805-Dredging ow M.E.R.C. S	15-Tug Lucinda 15-Tug Lucinda 15-Tug Lucinda 16-Dredge plan 16-Dre	it ain
Problems/Issu None /N/A	ies or Action	ı Items:						
None /N/A								
Visitors:								
Signature: Title: Copy to:		ntal Technician			Page:	5/14/14 2of3		



#### **Inspection Report**

**Inspector:** Christopher Stillman, Adam Hart **Date:** 5/14/2014

Contractor: Cashman/Weeks Foreman/Supt: John Benoit



Dredge plant Dale Pyatt dredging into the scow M.E.R.C. Shelvin



Crew taking material samples from the scow M.E.R.C. Shelvin to determine weight



Section of silt curtain no longer overlaps and will be repaired



Crew repairing gaps in silt curtain

Visitors: 0

Signature: Date: 5/14/14

Title: Environmental Technician Page: \_\_3\_\_of\_\_3\_\_

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				1111	Speci	on Report				
Inspector:	Chris Stillma	an					Date	e: 5/15/2014		
Contractor:	Cashman					Foreman/Supt:	Joh	n Benoit		
Weather	AM: PM:	Overc Overc		Vinds 5-	15knts.	<b>Temperature</b> SSE	AM: PM:	55 73		
Tides	High Low		085 023		AM AM	2118 1419	PM PM			
Manpower O	nsite					Equipment Ons	site			
•	Foreman	1	@	11	Hrs	Description:		t	Hrs.	11
	Engineer	1	@	11	Hrs		Lucinda S	mith	Hrs.	11
	Operators	_1_	@ _	11	Hrs		Blue Skiff		Hrs.	11
	Mate	1	@ _	11	Hrs		M.E.R.C.		Hrs	12
	Deckhand	_1_	@ _	11	Hrs			ce & SEI 38	Hrs	0
	Other:		@ _		Hrs		Mighty Q	uinn	Hrs	7
Contractor Ac	tivities: (Con	tinued	on n	ext page	e)					
0648-The Dale P	•									
stations 5+47. 0	_	•			_					•
arrives on site. (		•						_	•	
•						ale Pyatt stops o		_	_	
spud. 1115-The	-						_			-
off site to attend		_								
through the brid	_		_	-	1340-1	ne Mignty Quinn	is inspect	ed and cleared	TOP OTTS	nore
disposal. 1355-7 Problems/Issu										
None / N/A	Jes of Action	items.								
None / N/A										
Visitors:										
Signature: Title:		ntal Tec	Zh Chnici					e: <u>5/15/14</u> e:1of2	<u>.                                    </u>	
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		Inspec	tion Report			
Inspector:	Chris Stillm	an	-	Date:	5/15/2014	
Contractor:	Cashman		Foreman/Supt:	John	Benoit	
Weather	AM: PM:	Overcast Overcast. Winds 5-15knts	Temperature s. SSE	AM: PM:	55 73	
Tides	High Low	0857 AM 0230 AM	2118 1419	PM PM		
Contractor Ac	tivities: (Cor	tinued from Page 1)				
port side of the IDale Pyatt begin The M.E.R.C. She rotates 180 degr resumes dredgin continues dredgin resumes. 1820- 1830-All crews d	Dale Pyatt. 1 s dredging in evlin's bow is rees with the ng into the M ing. 1754-Di The Dale Pya epart.	he silt curtain. 1410-The L 447-The Lucinda Smith lead to the M.E.R.C Shevlin. 15 stuck. 1558-The M.E.R.C M.E.R.C. Shevlin so the sc E.R.C. Shevlin from its new redging stops due to an iss tt finishes dredging for the	eves the silt curta 645-The Dale Pyat is pulled north an ow does not run a w position. 1715- ue with the stern	in. 1450-The it stops drected. The aground aga The Dale Py spud on the	e silt curtain of the silt curtain of the sile Pyatt rain. 1613-The satt reposition to Dale Pyatt.	closes. 1452-The enorthwest 20'. repositions and ender Pyatt his south and 1803-Dredging
Problems/Issu	ies or Action	Items:				
None / N/A						
Visitors:						
Signature: Title:	Environmen	ntal Technician	-	Page:	5/15/14 2of2	
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				ıns	specti	on Report					
Inspector:	Chris Stillman					<b>Date</b> : 5/16/2014					
Contractor:	Cashman					Foreman/Supt:	Jol	nn Benoit			
Weather	AM: PM:	Overcast Rain. Winds 10-20knts. SSI				Temperature	AM: PM:	60 69			
Tides	High Low	0946 AM 0315 AM			AM	2207 1505	PM PM				
Manpower O	nsite					Equipment Ons	ite				
Foreman 1 @ 11 Hrs Engineer 1 @ 11 Hrs Operators 1 @ 11 Hrs Mate 1 @ 11 Hrs Deckhand 1 @ 11 Hrs Other: @ Hrs  Contractor Activities: (Continued on next page)  Contractor Activity observed on-site. 0630-Crew of the drand scow Mighty Quinn (drafting 4.5' FWD and 5' AFT) and segins at 0720 and stops at 0730, scow drafting 10.5FW dewatering underway, APEX initiates WQ monitoring. 0				Description: Dale Pyatt  Lucinda Smith  Blue Skiff  M.E.R.C. Shevlin  AF Maurice & SEI 38  Mighty Quinn  redge Dale Pyatt arrive via the blue skiff. at south staging area. Dredging into the stage of t			ow MER	RC Shelvin at weir			
FWD and 12'AFT Lucinda Smith br for offshore disp 0945-Lucinda Sm	rings empty s osal at RISDS	scow M S.	lighty	Quinn i	nto dre	dge area. 0934-					
Problems/Issu	ues or Action	Items									
None / N/A											
Visitors:											
Signature: Title:	Environmen	ntal Te	chnici	an				te: <u>5/16/14</u> ge:1of2	!		
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		mapecti	ion Keport			
Inspector:	Chris Stillm	an		Date:	5/16/2014	
Contractor:	Cashman		Foreman/Supt:	John I	Benoit	
Weather	AM: PM:	Overcast Rain. Winds 10-20knts. SSI	Temperature E	AM: PM:	60 69	
Tides	High Low	0946 AM 0315 AM	2207 1505	PM PM		
Contractor Ac	tivities: (Cor	ntinued from Page 1)				
1210-Dredging c drafting 12' FWD 1330-Scow Migh	ontinues, sco D/AFT. Drec Ity Quinn ins	dredging resumes, dredging ow drafting 8' FWD 12' AFT. dging stops at 1320, scow fu spected and cleared for disp	1219-Dredge s Ill at 12' FWD an	hifted to a n d 12.5' AFT.	ew position.	1304-Scow
Problems/Issu	ies or Action	ı Items:				
None / N/A						
Visitors:						
Signature: Title: Copy to:	Environment File	ntal Technician		Page:	5/16/14 2of2 DIR_LHCC_0!	



			Шэрес	non Keport				
Inspector:	Brett Young	g		_	Date:	5/17/2014		
Contractor:	Cashman			Foreman/Supt:	John I	Benoit		
Weather	AM:	Rain		Temperature	AM:	71		
	PM:	Clear. Winds	10-20knts. S	SW	PM:	49		
Tides	High	1036	S AM	2259	PM			
	Low	0400	AM	1553	PM			
Manpower O	nsite			Equipment Ons	ite			
	Foreman	1@	10 Hrs	Description:	Dale Pyatt		Hrs.	0
	Engineer	1 @	10 Hrs		MERC Shelv	/in	Hrs.	0
	Operators	1 @	10 Hrs		Mighty Qui	nn	Hrs.	24
	Mate	1 @	10 Hrs		Lucinda Sm	ith	Hrs.	2
	Deckhand	1 @	10 Hrs		Blue Skiff		Hrs	6
	Other:	@	Hrs		Survey 4		Hrs.	2
Contractor Ac	tivities: (Atta	ach Additional	Sheets as Ne	ecessary)				
_		•		30-Crew boards t	•		•	
			_	MERC Shelvin to	•			
				Area. 0706-Silt cu				
				MERC Shelvin and	_			ea. 1230
			•	ng it south. 1250	•			Jo.
equipment or cre		e spuus. 1325	-Lucinua Siiii	th takes the Dale	Pyatt South	through the	bridge. i	NO
equipment of cit	ew on site.							
Problems/Issu	ies or Action	Items:						
-			t with the gu	ard rails while go	ing south th	rough the bri	dge and	caused
	•		_	Guard were onsi	-	-	_	
	_			be inactive for a fo			Ü	
Visitors:								
	R	out In						-
Signature:		00		-	-	5/17/2014		
Title:	Environmei	ntal Scientist		-	Page:	1of2	<u> </u>	
Copy to:	File			<u>-</u>	File:	DIR_LHCC_0	51714	



### **Inspection Report**

**Inspector**: Brett Young **Date**: 5/17/2014

Contractor: Cashman Foreman/Supt: John Benoit





Dale Pyatt at Lower Harbor CAD Cell

Lucinda Smith moves the MERC Shelvin





Lucinda Smith takes the Dale Pyatt to South Terminal

No equipment onsite

Signature:

Title: Environmental Scientist

Copy to: File

Date: 5/17/2014

Page: \_\_2\_\_of\_\_2\_\_

File: DIR\_LHCC\_051714

# Attachment 2 Water Quality Monitoring Forms

PROJECT: New Bedford Harbor Lower Harbor CAD Cell

JOB NUMBER: 6724

DATE: 5/14/2014 MONITORS: Kaios Ryan

WEATHER CONDITIONS: High: 64 Low: 44

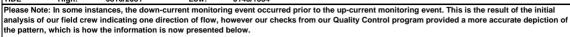
WIND: 4-14 mph Southeast

PRIOR STORM EVENTS: n/a

DREDGE UPDATE:

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

TIDE High: 0810/2031 Low: 0145/1334





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
51414-00-1-1		0710		1	2.55				
51414-00-1-4.5	814964 , 2696376	0712	10	4.5	2.99	]	Flooding	15' S of Silt Curtain	00
51414-00-1-9		0714		9	2.09				
			AVERAGE T	TURBIDITY:	2.54	_			
51414-02-1-1		0917		1	3.74				
51414-02-1-3	815146 , 2697181	0919	7.1	3	3.34	<b>」</b>	Ebbing	15' N of Silt Curtain	02
51414-02-1-7		0921		7	2.23	1			
		Į	AVERAGE T	TURBIDITY:	3.10				
51414-04-1-1		1110		1	2.38				
51414-04-1-2.5	815133 , 2697204	1112	5.6	2.5	2.2	<b>」</b>	Ebbing	15' N of Silt Curtain	04
51414-04-1-5		1114		5	3.11				
		l	AVERAGE T	TURBIDITY:	2.56				
51414-06-1-1		1325		1	2.49				
51414-06-1-1.5	815120 , 2697203	1327	3.8	1.5	2.95	]	Ebbing	15' N of Silt Curtain	06
51414-06-1-3		1329		3	2.84				
			AVERAGE T	TURBIDITY:	2.76				
51414-08-1-1		1510		1	2.41			<u> </u>	
51414-08-1-3.5	815017 , 2696306	1512	7.71	3.5	2.44	1 1	Flooding	15' S of Silt Curtain	08
51414-08-1-7		1514		7	2.04	1 1			
		Į	AVERAGE T	TURBIDITY:	2.30				
					Down-Curr	rent			
Monitoring ID #	NORTHING/ EASTING	IIVIE	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM DREDGE/SILT CURTAIN	NUMBER OF HOUR: DREDGING
51414-00-9-1	_	0716	DEPTH (ft)	DEPTH (ft)	(NTUs) 2.58	GPS FILE NAME		DREDGE/SILT CURTAIN	DREDGING
51414-00-9-1 51414-00-9-4	NORTHING/ EASTING 814989 , 2697096	0716 0718		DEPTH (ft)  1  4	(NTUs) 2.58 3.27	GPS FILE NAME	TIDAL STAGE Flooding	DREDGE/SILT	
51414-00-9-1 51414-00-9-4	_	0716	<b>DEPTH (ft)</b> 8.5	1 4 8	2.58 3.27 3.18	GPS FILE NAME		DREDGE/SILT CURTAIN	DREDGING
51414-00-9-1 51414-00-9-4	_	0716 0718	DEPTH (ft)	DEPTH (ft)  1 4 8  TURBIDITY:	(NTUs) 2.58 3.27	GPS FILE NAME		DREDGE/SILT CURTAIN	DREDGING
51414-00-9-1 51414-00-9-4 51414-00-9-8	_	0716 0718 0720	8.5 AVERAGE T	DEPTH (ft)  1 4 8 TURBIDITY: INCREASE:	2.58 3.27 3.18 3.01 0.47	GPS FILE NAME		DREDGE/SILT CURTAIN	DREDGING
51414-00-9-1 51414-00-9-4 51414-00-9-8 51414-02-9-1	_	0716 0718 0720	8.5  AVERAGE T TURBIDITY	DEPTH (ft)  1 4 8 FURBIDITY: INCREASE:	2.58 3.27 3.18 3.01 0.47	GPS FILE NAME	Flooding	DREDGE/SILT CURTAIN	DREDGING
Monitoring ID #  151414-00-9-1 151414-00-9-8  151414-02-9-1 151414-02-9-11.5 151414-02-9-23	814989 , 2697096	0716 0718 0720 0923 0925	8.5 AVERAGE T	DEPTH (ft)  1 4 8 FURBIDITY: INCREASE:  1 11.5	2.58 3.27 3.18 3.01 0.47 3.78 3.99	GPS FILE NAME		DREDGE/SILT CURTAIN 15' N of Silt Curtain	DREDGING 00
51414-00-9-1 51414-00-9-4 51414-00-9-8 51414-02-9-1 51414-02-9-11.5	814989 , 2697096	0716 0718 0720	8.5  AVERAGE T TURBIDITY I	1 4 8 FURBIDITY: INCREASE: 1 11.5 23	(NTUs) 2.58 3.27 3.18 3.01 0.47 3.78 3.99 7.14	GPS FILE NAME	Flooding	DREDGE/SILT CURTAIN 15' N of Silt Curtain	DREDGING 00
51414-00-9-1 51414-00-9-4 51414-00-9-8 51414-00-9-8 51414-02-9-1	814989 , 2697096	0716 0718 0720 0923 0925	8.5  AVERAGE T TURBIDITY	DEPTH (ft)  1 4 8 FURBIDITY: INCREASE:  1 11.5 23 FURBIDITY:	2.58 3.27 3.18 3.01 0.47 3.78 3.99	GPS FILE NAME	Flooding	DREDGE/SILT CURTAIN 15' N of Silt Curtain	DREDGING 00
51414-00-9-1 51414-00-9-4 51414-00-9-8 51414-02-9-1 51414-02-9-11.5 51414-02-9-23	814989 , 2697096	0716 0718 0720 0923 0925	8.5  AVERAGE T TURBIDITY  23.3  AVERAGE T	DEPTH (ft)  1 4 8 FURBIDITY: INCREASE:  1 11.5 23 FURBIDITY:	(NTUs)  2.58  3.27  3.18  3.01  0.47  3.78  3.99  7.14  4.97	GPS FILE NAME	Flooding	DREDGE/SILT CURTAIN 15' N of Silt Curtain	DREDGING 00
51414-00-9-1 51414-00-9-4 51414-00-9-8 51414-02-9-1 51414-02-9-11.5 51414-02-9-23	814989 , 2697096	0716 0718 0720 0923 0925 0927	8.5  AVERAGE T TURBIDITY  23.3  AVERAGE T	DEPTH (ft)  1 4 8 TURBIDITY: INCREASE:  1 11.5 23 TURBIDITY: INCREASE: 1 1 11.5 11.5 11.5 11.5 11.5 11.5 11.5	(NTUs)  2.58 3.27 3.18 3.01 0.47  3.78 3.99 7.14 4.97 1.87	GPS FILE NAME	Flooding	DREDGE/SILT CURTAIN 15' N of Silt Curtain	DREDGING 00
51414-02-9-1 51414-02-9-1 51414-02-9-1 51414-02-9-23 51414-04-9-1 51414-04-9-12	814989 , 2697096 815399 , 2696772	0716 0718 0720 0923 0925 0927	AVERAGE TO TURBIDITY I Say TURBIDITY I TUR	DEPTH (ft)  1 4 8 FURBIDITY: INCREASE:  1 11.5 23 FURBIDITY: INCREASE:	(NTUs) 2.58 3.27 3.18 3.01 0.47 3.78 3.99 7.14 4.97 1.87	GPS FILE NAME	Flooding	DREDGE/SILT CURTAIN  15' N of Silt Curtain  15' S of Silt Curtain	00 02
51414-00-9-1 51414-00-9-4 51414-00-9-8 51414-02-9-1 51414-02-9-11.5	814989 , 2697096 815399 , 2696772	0716 0718 0720 0923 0925 0927	AVERAGE TO TURBIDITY I Say TURBIDITY I TUR	DEPTH (ft)  1 4 8 FURBIDITY: INCREASE:  1 11.5 23 FURBIDITY: INCREASE:  1 12 24	(NTUs)  2.58 3.27 3.18 3.01 0.47  3.78 3.99 7.14 4.97 1.87	GPS FILE NAME	Flooding	DREDGE/SILT CURTAIN  15' N of Silt Curtain  15' S of Silt Curtain	00 02
51414-02-9-1 51414-02-9-1 51414-02-9-1 51414-02-9-23	814989 , 2697096 815399 , 2696772	0716 0718 0720 0923 0925 0927	AVERAGE T TURBIDITY I 23.3 AVERAGE T TURBIDITY I	DEPTH (ft)  1 4 8 FURBIDITY: INCREASE:  1 11.5 23 FURBIDITY: INCREASE:  1 12 24 FURBIDITY:	(NTUs)  2.58 3.27 3.18 3.01 0.47  3.78 3.99 7.14 4.97 1.87  2.53 3.32 3.7	GPS FILE NAME	Flooding	DREDGE/SILT CURTAIN  15' N of Silt Curtain  15' S of Silt Curtain	00 02
51414-00-9-1 51414-00-9-4 51414-00-9-8 51414-02-9-1 51414-02-9-11.5 51414-02-9-23 51414-04-9-1 51414-04-9-12 51414-04-9-24	814989 , 2697096 815399 , 2696772	0716 0718 0720 0923 0925 0927 1117 1119 1121	AVERAGE T TURBIDITY I 23.3 AVERAGE T TURBIDITY I 24.4 AVERAGE T	DEPTH (ft)  1 4 8 FURBIDITY: INCREASE:  1 11.5 23 FURBIDITY: INCREASE:  1 2 4 FURBIDITY: INCREASE:	(NTUs)  2.58 3.27 3.18 3.01 0.47  3.78 3.99 7.14 4.97 1.87  2.53 3.32 3.7 3.18 0.62	GPS FILE NAME	Flooding	DREDGE/SILT CURTAIN  15' N of Silt Curtain  15' S of Silt Curtain	00 02
51414-00-9-1 51414-00-9-8 51414-00-9-8 51414-02-9-1 51414-02-9-11.5 51414-02-9-23 51414-04-9-1 51414-04-9-12 51414-04-9-24	814989 , 2697096 815399 , 2696772 815410 , 2696869	0716 0718 0720 0923 0925 0927 1117 1119 1121	AVERAGE TO TURBIDITY TO TURBIDI	DEPTH (ft)  1 4 8 FURBIDITY: INCREASE:  1 11.5 23 FURBIDITY: INCREASE:  1 12 24 FURBIDITY: INCREASE:  1 11 12 11 11 11 11 11 11 11 11 11 11	(NTUs)  2.58 3.27 3.18 3.01 0.47  3.78 3.99 7.14 4.97 1.87  2.53 3.32 3.7 3.18 0.62	GPS FILE NAME	Flooding  Ebbing  Ebbing	DREDGE/SILT CURTAIN  15' N of Silt Curtain  15' S of Silt Curtain	00 02 04
51414-00-9-1 51414-00-9-8 51414-02-9-1 51414-02-9-11.5 51414-02-9-23 51414-04-9-1 51414-04-9-12 51414-04-9-24	814989 , 2697096 815399 , 2696772	0716 0718 0720 0923 0925 0927 1117 1119 1121	AVERAGE T TURBIDITY I 23.3 AVERAGE T TURBIDITY I 24.4 AVERAGE T	DEPTH (ft)  1 4 8 FURBIDITY: INCREASE:  1 11.5 23 FURBIDITY: INCREASE:  1 12 24 FURBIDITY: INCREASE:  1 10.5	(NTUs)  2.58 3.27 3.18 3.01 0.47  3.78 3.99 7.14 4.97 1.87  2.53 3.32 3.7 3.18 0.62	GPS FILE NAME	Flooding	DREDGE/SILT CURTAIN  15' N of Silt Curtain  15' S of Silt Curtain	00 02
51414-00-9-1 51414-00-9-8 51414-02-9-1 51414-02-9-11.5 51414-02-9-23 51414-04-9-1 51414-04-9-12 51414-04-9-24	814989 , 2697096 815399 , 2696772 815410 , 2696869	0716 0718 0720 0923 0925 0927 1117 1119 1121	AVERAGE T TURBIDITY I 23.3  AVERAGE T TURBIDITY I 24.4  AVERAGE T TURBIDITY I 24.4	DEPTH (ft)  1 4 8 TURBIDITY: INCREASE:  1 11.5 23 TURBIDITY: INCREASE:  1 24 TURBIDITY: INCREASE:  1 12 24 TURBIDITY: INCREASE:  1 10.5 5.45	(NTUs)  2.58 3.27 3.18 3.01 0.47  3.78 3.99 7.14 4.97 1.87  2.53 3.32 3.7 3.18 0.62	GPS FILE NAME	Flooding  Ebbing  Ebbing	DREDGE/SILT CURTAIN  15' N of Silt Curtain  15' S of Silt Curtain	00 02 04
51414-00-9-1 51414-00-9-8 51414-02-9-1 51414-02-9-11.5 51414-02-9-23 51414-04-9-1 51414-04-9-12 51414-04-9-24	814989 , 2697096 815399 , 2696772 815410 , 2696869	0716 0718 0720 0923 0925 0927 1117 1119 1121	AVERAGE TO TURBIDITY TO TURBIDI	DEPTH (ft)  1 4 8 FURBIDITY: INCREASE:  1 11.5 23 FURBIDITY: INCREASE:  1 2 4 FURBIDITY: INCREASE:  1 10.5 5.45 FURBIDITY:	(NTUs)  2.58 3.27 3.18 3.01 0.47  3.78 3.99 7.14 4.97 1.87  2.53 3.32 3.7 3.18 0.62	GPS FILE NAME	Flooding  Ebbing  Ebbing	DREDGE/SILT CURTAIN  15' N of Silt Curtain  15' S of Silt Curtain	00 02 04
51414-00-9-1 51414-00-9-8 51414-02-9-1 51414-02-9-11.5 51414-02-9-23 51414-02-9-23 51414-04-9-12 51414-04-9-12 51414-06-9-10.5 51414-06-9-10.5 51414-06-9-5.45	814989 , 2697096 815399 , 2696772 815410 , 2696869	0716 0718 0720 0923 0925 0927 1117 1119 1121 1333 1335 1337	AVERAGE T TURBIDITY I  23.3  AVERAGE T TURBIDITY I  24.4  AVERAGE T TURBIDITY I  21.5  AVERAGE T AVERAGE T TURBIDITY I	DEPTH (ft)  1 4 8 TURBIDITY: INCREASE:  1 11.5 23 TURBIDITY: INCREASE:  1 12 24 TURBIDITY: INCREASE:  1 10.5 5.45 TURBIDITY: INCREASE:	(NTUs)  2.58 3.27 3.18 3.01 0.47  3.78 3.99 7.14 4.97 1.87  2.53 3.32 3.7 3.18 0.62  3.03 4.64 5.45 4.37 1.61	GPS FILE NAME	Flooding  Ebbing  Ebbing	DREDGE/SILT CURTAIN  15' N of Silt Curtain  15' S of Silt Curtain	00 02 04
51414-00-9-1 51414-00-9-8 51414-02-9-1 51414-02-9-11.5 51414-02-9-23 51414-02-9-23 51414-04-9-1 51414-04-9-12 51414-04-9-24 51414-06-9-10.5 51414-06-9-5.45	814989 , 2697096 815399 , 2696772 815410 , 2696869 815382 , 2696832	0716 0718 0720 0923 0925 0927 1117 1119 1121 1333 1335 1337	AVERAGE TO TURBIDITY I STANDARD TO TURBIDITY I STANDAR	DEPTH (ft)  1 4 8 TURBIDITY: INCREASE:  1 11.5 23 TURBIDITY: INCREASE:  1 12 24 TURBIDITY: INCREASE:  1 10.5 5.45 TURBIDITY: INCREASE:  1 10.5 5.45 TURBIDITY: INCREASE:	(NTUs)  2.58 3.27 3.18 3.01 0.47  3.78 3.99 7.14 4.97 1.87  2.53 3.32 3.7 3.18 0.62  3.03 4.64 5.45 4.37 1.61	GPS FILE NAME	Ebbing  Ebbing  Ebbing/Slack	DREDGE/SILT CURTAIN  15' N of Silt Curtain  15' S of Silt Curtain  15' S of Silt Curtain	00 00 02 04 04 06
51414-00-9-1 51414-00-9-8 51414-02-9-1 51414-02-9-11.5 51414-02-9-23 51414-02-9-23 51414-04-9-1 51414-04-9-1 51414-06-9-1 51414-06-9-10.5 51414-06-9-5.45	814989 , 2697096 815399 , 2696772 815410 , 2696869	0716 0718 0720 0923 0925 0927 1117 1119 1121 1333 1335 1337	AVERAGE T TURBIDITY I  23.3  AVERAGE T TURBIDITY I  24.4  AVERAGE T TURBIDITY I  21.5  AVERAGE T AVERAGE T TURBIDITY I	DEPTH (ft)  1 4 8 TURBIDITY: INCREASE:  1 11.5 23 TURBIDITY: INCREASE:  1 12 24 TURBIDITY: INCREASE:  1 10.5 5.45 TURBIDITY: INCREASE: INCREASE:  1 10.5 5.45 TURBIDITY: INCREASE: INCREAS	(NTUs)  2.58 3.27 3.18 3.01 0.47  3.78 3.99 7.14 4.97 1.87  2.53 3.32 3.7 3.18 0.62  3.03 4.64 5.45 4.37 1.61	GPS FILE NAME	Flooding  Ebbing  Ebbing	DREDGE/SILT CURTAIN  15' N of Silt Curtain  15' S of Silt Curtain	00 02 04
51414-00-9-1 51414-00-9-8 51414-02-9-1 51414-02-9-11.5 51414-02-9-23 51414-04-9-1 51414-04-9-12 51414-04-9-12 51414-06-9-10.5 51414-06-9-5.45	814989 , 2697096 815399 , 2696772 815410 , 2696869 815382 , 2696832	0716 0718 0720 0923 0925 0927 1117 1119 1121 1333 1335 1337	AVERAGE T TURBIDITY I  23.3  AVERAGE T TURBIDITY I  24.4  AVERAGE T TURBIDITY I  21.5  AVERAGE T TURBIDITY I  4.3	DEPTH (ft)  1 4 8 8 TURBIDITY: INCREASE:  1 11.5 23 TURBIDITY: INCREASE:  1 12 24 TURBIDITY: INCREASE:  1 10.5 5.45 TURBIDITY: INCREASE:  1 2 4 4	(NTUs)  2.58 3.27 3.18 3.01 0.47  3.78 3.99 7.14 4.97 1.87  2.53 3.32 3.7 3.18 0.62  3.03 4.64 5.45 4.37 1.61	GPS FILE NAME	Ebbing  Ebbing  Ebbing/Slack	DREDGE/SILT CURTAIN  15' N of Silt Curtain  15' S of Silt Curtain  15' S of Silt Curtain	00 02 04 04 06
51414-00-9-1 51414-00-9-8 51414-02-9-1 51414-02-9-11.5 51414-02-9-23 51414-02-9-23 51414-04-9-1 51414-04-9-1 51414-06-9-1 51414-06-9-10.5 51414-06-9-5.45	814989 , 2697096 815399 , 2696772 815410 , 2696869 815382 , 2696832	0716 0718 0720 0923 0925 0927 1117 1119 1121 1333 1335 1337	AVERAGE TO TURBIDITY I STANDARD TO TURBIDITY I STANDAR	DEPTH (ft)  1 4 8 8 TURBIDITY: INCREASE:  1 11.5 23 TURBIDITY: INCREASE:  1 12 24 TURBIDITY: INCREASE:  1 10.5 5.45 TURBIDITY: INCREASE:  1 10.5 4 TURBIDITY: INCREASE:	(NTUs)  2.58 3.27 3.18 3.01 0.47  3.78 3.99 7.14 4.97 1.87  2.53 3.32 3.7 3.18 0.62  3.03 4.64 5.45 4.37 1.61	GPS FILE NAME	Ebbing  Ebbing  Ebbing/Slack	DREDGE/SILT CURTAIN  15' N of Silt Curtain  15' S of Silt Curtain  15' S of Silt Curtain	00 00 02 04 04 06

**UP-CURRENT** 

PROJECT: New Bedford	I Harbor Lower Harbor C	AD Cell							
JOB NUMBER: 6724								-	<u> </u>
DATE: 5/16/201								-	
MONITORS: Kaios Ryar									PEX
WEATHER CONDITIONS: WIND: 14-22 mph	South-south-east								
PRIOR STORM EVENTS:									
DREDGE UPDATE:	rum today								
TYPE OF WATER QUALIT	TY MONITORING EVENT	: TOP CAD	Dredging / BTI	M CAD Dredgi	ng / Disposa	ıl		/\ I_	N - X
TIDE High:	0946/2207	Low:	0315/1505					/-\ -	
	indicating one direction	of flow, ho	wever our chec				This is the result of the initial ded a more accurate depiction of		
					UP-CURRE	<u>INT</u>			
								TYPE OF WQM &	
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
051614-00-1-1		0800		1	2.55				
051614-00-1-5	814992 , 2696577	0802	9.7	5	2.99		Flooding	15' S of Silt Curtain	00
051614-00-1-9		0804		9	2.09				
			AVERAGE T	URBIDITY:	2.54	]			
	<u> </u>	44.5	ı ı		0			<del>, , , , , , , , , , , , , , , , , , , </del>	
051614-02-1-1 051614-02-1-3	815205 , 2697194	1140		1	3.25	4	Ebbing	15' N of Silt Curtain	02
051614-02-1-3 051614-02-1-6	013203 , 2097 194	1142 1144	6.5	<u>3</u>	4.31 4.28		Lobing	13 N OI SIIL CUITAIII	02
331014-02-1-0		1144	AVERAGE T		3.95			<u></u>	
			AVEIGAGE	OKDIDITT.	3.33	1			
0516141-									
0516141-			]						
0516141-									
			AVERAGE T	URBIDITY:		]			
	1				T				
0516141-									
0516141-			•						
0516141-			AVERAGE T	URBIDITY:					
						1			
0516141-									
0516141-			] [						
0516141-									
			AVERAGE T	URBIDITY:		J			
					Down-Curr	ent			
Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM DREDGE/SILT	NUMBER OF HOURS DREDGING
051614-00-9-1		0807	<u> </u>	1	4.12			CURTAIN	
051614-00-9-3.5	815077 , 2697087	0809	6.9	3.5	3.81		Flooding	15' N of Silt Curtain	00
051614-00-9-6	1	0811	1	6	4.08				
			AVERAGE T		4.00				
			TURBIDITY	NCREASE:	1.46	1			
051614-02-9-1		1149	l l	1	4.98				
051614-02-9-4.5	815028 , 2696525	1151	9.2	4.5	5.63		Ebbing	15' S of Silt Curtain	02
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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

