Weekly Field Report Week: 05-18-14 through 05-24-14 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 ninth 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 29th Report for the LHCC dredging activities includes:

- Daily Inspection Reports from dredging oversight performed during the week of May 18th through May 24th, 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 18th through May 24th, 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.
 - 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 plants *Wood 1* and the *Dale Pyatt*. Dredging was conducted daily May 21st through May 24th. No dredging was performed May 18th through May 20th because the dredge plant *Dale Pyatt* was off-line for generator maintenance. The dredge *Dale Pyatt* returned to service briefly on May 21st, until encountering mechanical issues - the dredge *Wood 1* was called in to finish out the day and remained in service until the *Dale Pyatt's* return on May 23rd. 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 two dredge plants (alternating service); 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 15th through June 15th) 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 one day of regular dredge turbidity monitoring. Monitoring was performed May 21st while dredging 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. Three offshore disposal events were recorded during the week as follows – scow *Mighty Quinn* (May 23rd), and the scow *M.E.R.C Shevlin* (May 22rd and 24th).

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*	4,785
Approximate Bottom of CAD Volume Dredged to Date*	80,005

^{*} 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

Donald Boyé

Senior Project Manager

Attachment 1 Daily Inspection Reports



Inspector:	Adam Hart						Date:	5/18/2014		
Contractor:	Cashman/W	/eeks				Foreman/Supt:	John	Benoit, Thom	nas Mitc	hell
Weather	AM:	Clear				Temperature	· ·	50		
	PM:	Mosti	y Clo	udy. Win	ds 5-10	Oknts. ENE	PM:	70		
Tides	High		11	31	AM	2354	PM			
	Low		04		AM	1643	PM			
Manpower O	nsite					Equipment Ons				
	Foreman	2	@	11 / 2	Hrs	Description:			Hrs.	0
	Engineer	1	@ _	11	Hrs		MERC Shelv		Hrs.	0
	Operators	1	@ _	11	Hrs		Mighty Qui		Hrs	0
	Mate	1	@ _	11	Hrs		Lucinda Sm	ith	Hrs	0
	Deckhand	1	@_	11	Hrs		Blue Skiff		Hrs	0
Cra	ine Operator	1	@_	11	_ Hrs		Survey 4		Hrs	0
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Contractor Ac	-									
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generator from				-			_	_		_
plant Dale Pyatt.	-						1 SITE. 1745-	Dreage plant	Dale Pya	att's crew
are connecting t	ne new gene	rator.	1804	i All crew	'S OTTSIT	te/no activity.				
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None / N/A	acs of Action	items.								
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	inspection	i Report
Inspector:	Adam Hart	Date: 5/18/2014
Contractor:	Cashman	Foreman/Supt: John Benoit, Thomas
	ale Pyatt docked at Shuster Bulkhead while replace the damaged generator.	
Signature: Title:	Environmental Technician	Date: <u>5/18/2014</u> Page: <u>2of2</u>
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Inspector:	Adam Hart				_		Date:	5/19/2014		
Contractor:	Cashman/W	/eeks				Foreman/Supt:		John Ben	oit	
Weather	AM:	Clear			_	Temperature	AM:	50		
	PM:	Cloud	y/Raiı	n. Wind	s 5-15k	nts. NNW	PM:	68		
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	Mate	1	@	11	Hrs		Lucinda Sm	ith	Hrs.	0
	Deckhand	1	@	11	Hrs		Blue Skiff		Hrs.	0
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Inspector:	Adam Hart						Date:	5/20/2014		
Contractor:	Cashman/W	/eeks				Foreman/Supt:		John Ben	oit	
Weather	AM: PM:	Clear Cloud	y /Ra	nin. Wind	 ls 5-15k	Temperature ants. SSW	AM: PM:	46 70		
Tides	High Low		00		AM AM	1326 1843	PM PM			
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	Engineer	1	@ _	11	— Hrs	•	MERC Shelv	/in	Hrs.	0
	Operators	1	@	10	Hrs		Mighty Qui	nn	Hrs.	0
	Mate	1	@	11	Hrs		Lucinda Sm	ith	Hrs.	1
	Deckhand	1	@	11	Hrs		Blue Skiff		Hrs.	0
	Other		@		Hrs		Survey 4		Hrs.	0
							Weeks 30		Hrs.	1
Contractor Ac The dredge plant dredge plant Dal Milton CAT) arriv All of the crew o bucket, wires, ar the dredge plant crane. (Continue	t Dale Pyatt very Pyatt very Pyatt's crewing on site. On site are act and generators and generators and generators.	was ina w arriv 0800-C ively r s to en 1444-	active re ons aterp eplac sure The d	e due to a site at th billar Equ ing the c everythi	an equi le Shust lipment crane w ng is fu	er bulkhead. 07 Technician ente ire. 1435-The dr nctioning proper	40-Caterpill rs the crane edge plant lift. Tug boat	ar Equipment house of the Dale Pyatt is t Lucinda Smit	t Technic Dale Py testing t th ties al	cian (from vatt. 1030 he ong side
Problems/Issu	ues or Action	Items:								
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			Inspecti	ion Report			
Inspector:	Adam Hart				Date	: 5/20/2014	
Contractor:	Cashman/V	Veeks		Foreman/Sup	t: Joh	n Benoit	
Weather	AM: PM:	Clear Cloudy /Rain. Wi	inds 5-15k	Temperatu ants. SSW	re AM: PM:	46 70	
Tides	High Low	0051 0630	AM AM	1326 1843	PM PM		
Contractor Ac	tivities: (Cor	itinued from Page	1)				
the crew boat do damage is reportit's bucket in the the crane's wires boom and lifts the dredge plant Dale Pyatt onto are actively perform Benoit the Cell area on 5/22	ock. Crew do ted, and the water and lo s. 1510-Cate ne bucket ou Dale Pyatt. the deck of torming routi tug boat Luc L/14 at appro	ck walkway is rais walkway appears owers its boom to rpillar Equipment tof the water. 16 1630-The Weeks he Weeks 30. 174 ne maintenance. inda Smith will repoximately 0530. 1	to be Case to be horized to be	kimately 4 inch hman's proper ontal above the in is offsite. 16 oat Lucinda Sm loads the malfi eeks 30 is repo tor from the D ne dredge plan	es off the gr ty . 1449-The Shuster bu 500-The drec hith ties the unctioning g sitioned bac vale Pyatt go t Dale Pyatt	ound, howeve e dredge plant khead so the d dge plant Dale Weeks 30 cran enerator from k to the stagin es offsite. Acco back to the Lo	t Dale Pyatt places crew can lubricate Pyatt raises the ne barge alongside the deck of the ng area. All crew ording to Captain
Problems/Issu	ies or Action	Items:					
None / N/A							
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Inspection Report

Inspector: Adam Hart Date: 5/20/2014

Contractor: Cashman/Weeks Foreman/Supt: John Benoit



Dredge plant Dale Pyatt testing the bucket, wires, and generator.



Tug boat Lucinda Smith tying the Weeks 30 alongside the Dale Pyatt.



Dale Pyatt's crew lubricating the wires on the crane.



Weeks 30 placing the old generator onto its deck.

Date: 5/20/2014
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Signature:

Title: Environmental Technician

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					Speci	ion Report				
Inspector:	Adam Hart						Date:	5/21/2014		
Contractor:	Cashman/W	/eeks				Foreman/Supt:		John Ben	oit	
Weather	AM: PM:	Clear Ptly. 0	Cloudy	y. Wind:	 s 5-15kr	Temperature nts. SSE	AM: PM:	41 70		
Tides	High Low		015 074		AM AM	1424 2021	PM PM			
Manpower O	nsite					Equipment Ons	ite			
manpower of	Foreman	1	@	11	Hrs	Description:			Hrs.	4
	Engineer	1	@	11	Hrs	·	MERC Shev	lin	Hrs.	11
	Operators	1	@	11	Hrs		Mighty Qui	nn	Hrs.	4
	Mate		@		Hrs		Lucinda Sm	ith	Hrs.	6
	Deckhand	1	@	11	Hrs		Blue Skiff		Hrs.	2
	Other		@		Hrs		Wood 1		Hrs.	4
Contractor Ac 0615-Tug Lucind	-				•	ad north through	bridge. 07	00-Lucinda Sr	nith has	the Dale
Pyatt and the sco	ow MERC She	evlin se	ecure	d inside	the silt	curtain. 0711-Lu	ucinda Smitl	n heads south	. Silt cu	rtain
closed and dredg	ging begins at	t 0737	at co	ordinate	es 2 696	946, 815156. 09	000-Dredgin	g into the ME	RC Shev	lin.
Lucinda Smith tie	ed off at stag	ing are	ea. 09	915-Dre	dge rep	ositions to 26960	048, 815169	and dredging	g resum	es at
0920. 0930-Boo	m on Dale Py	yatt wa	ay up,	closer	wire jun	nped back, boom	n wires are o	completely sla	ick - crev	N
investigating. Ap		_				•			•	
reportedly in nee	•	. 0953	3-Luci	nda Smi	ith man	euvers into posit	ion to reloc	ate scow MEI	RC Shevl	in out of
the silt curtained										
Problems/Issu	es or Action	Items:								
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		Inspe	ction Report			
Inspector:	Adam Hart			Date:	5/21/2014	
Contractor:	Cashman/We	eks	Foreman/Supt:	John	Benoit	
Weather		lear tly. Cloudy. Winds 5-15	Temperature Sknts. SSE	AM: PM:	41 70	
Tides	High _ Low _	0150 AN 0741 AN		PM PM		
Contractor Ac	tivities: (Contir	nued from Page 1)				
to location of EP Shevlin tied off t secured at stagir Dale Pyatt - book transiting to the Lucinda Smith recurtain closed. A stops for the day	A pipeline - loco o scow Mighty ng area by 1125 m lowered dow LHCC; heading trieves scow Mac27-Wood 1 bow with plans on	t of silt curtained area. al fishing vessel compl Quinn at staging area. 5 - boom is lowered on on the barge 196. g north through bridge IERC Shevlin from stage egins dredging at 2696 resuming in morning very att. No further acti	icates maneuver b 1055-Lucinda Sm deck and repairs k 1503-Lucinda Smit at 1525. 1545-Wo ing areas and has i 846, 815032. 173 vith same gear set	y blocking paith ties off to begin. 1330- th ties off to bood 1 set in pait alongside \ 30-Dredging	ath of tug. 10 Dale Pyatt a Crane barge the dredge V Dosition insid Wood 1 at 16 continues. 1	047-Scow MERC and has her SEI-30 ties off to Vood 1 and begins e silt curtain. 600. 1625-Silt .735-Dredging
Problems/Issu	ies or Action It	ems:				
None / N/A						
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Inspector:	Don Boye						Date:	5/22/2014		
Contractor:	Cashman					Foreman/Supt:	Thoma	s Mitchell		
Weather	AM: PM:	Ptly. 0			Winds	Temperature 5 5knts. SE	AM: PM:	53 62		
Tides	High Low		024 085		_AM _AM	1524 2209	PM PM			
Manpower O	nsite					Equipment Ons	site			
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	Operators Mate	1	@ _	12	Hrs Hrs		Gray Skiff M.E.R.C. Sl	hevlin	Hrs	4 12
	Deckhand Other:	1	@	11	Hrs Hrs		AF Maurice Mighty Qu		Hrs	
Contractor Ac	tivities: (Con	tinued	on ne	ext page)						
coordinates 269 14CY open diggir all around LHCC, captain informed marks on closing discovered with	6785, 81503! ng bucket. 0 one small "id and openin wire. 0900 wire jumped	5. Dred 738-Dr ntact": g was t -Dredg out of	dge medge section tighte ting re head	naterials reposition with a ned. 084 esumes.	primar ons to 2 deflate 15-Buc 1000-E	ny into scow MEF ily tan colored sa 2696804, 815027 ed bladder; one of ket on deck to cl Dredge stops, but ars start at 1025.	ands - good 7. 0747-Ob open sectic ear fouled cket on dec	production of served silt cur on for passage cable reave ar ck for service (bserved vertain near of skiff - nd to re-p greasing)	with a fly intact barge paint
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Inspector:	Don Boye				Date:	5/22/2014	
Contractor:	Cashman			Foreman/Supt:	Thomas	Mitchell	
Weather	AM: PM:	Ptly. Cloudy Overcast / Rain PM.	Winds	Temperature 5 5knts. SE	AM: PM:	53 62	
Tides	High Low	0249 0859	_AM _	1524 2209	_PM _PM		
Contractor Ac	tivities: (Cor	ntinued from Page 1)					
815097. 1225-D circling and taking Dredge stops - classification 815053 to dig in Dredge resumes now drafting 11' drafting 11' -3" f	Oredge stops ng photograp hecking dred an area furt and at 1500 -3" fwd and wd/aft. 173	cow drafting 8' aft and briefly to repaint matchs of dredge. 1238-ldge planes, digging slower down slope at -31 scow drafting 11' fw 10'-2" aft, crew receical and crew departs day and crew departs	orks on Dredge ope of o 7'. 133 d and 9 ves dir efuelin	closing wire. Of repositions to 2 cell at an elevation 4-Dredge stops 9-1/2' aft. 1600 ection to keep of g. 1740-Silt cur	oserved a sm 2696789, 81 ion of -27'. I , scow drafti -Dredge con digging until	nall blue skiff 5025 and res Dredge then s ng 12' fwd ar ducts a wash scow on ever	with a whale logo umes. 1303- shifts to 2696797, nd 9'aft. 1408- -down of scow n keel. 1638-Scow
Problems/Issu	ies or Action	Items:					
None / N/A							
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				ln	specti	ion Report				
Inspector:	Christophe	r Stillma	an				Date:	5/23/2014		
Contractor:	Cashman					Foreman/Supt:	Thomas	Mitchell		
Weather	AM: PM:		•	5-10kts dy Wind	ls 8-10 l	Temperature knts. SE	AM: PM:	54 68		
Tides	High Low		035 100		AM AM	1626 2314	PM PM			
Manpower O	nsite					Equipment Ons	site			
-	Foreman	1	@	11	Hrs	Description:	Wood 1		Hrs.	11
	Engineer		@ _		Hrs		Lucinda Sm	ith	Hrs.	12
	Operators	1	@ _	11	Hrs		Gray Skiff		Hrs	5
	Mate		@_		Hrs		M.E.R.C. Sh		Hrs	0
	Deckhand		@_	11	Hrs		AF Maurice		Hrs	42
	Other:		@ _		Hrs		Mighty Qui	nn	Hrs	12
Dredge Captain- first bucket of th on east side of th Dredge stops for 0945-Dredge de dredging resume Dredge plant sto plant resumes d	ed to the dre Thomas Mit te day. 0735 the curtain. 0 a preparatio pth 14.25' Fil ed. 1105-Loo ps dredging redging in cu	edge place p	ant W leckha e stop epairs nove t nediu Dredg to a	Jood 1, and- Ray oped for comple cowards m SAND ge bucken mew posterior of the complete to the	split sco ymond, curtain ete, drec the sou the some et positi sition: 8	ow Mighty Quinn and Crane Opera repairs. 0800-N dge resumes load theast. 0926-Dr Silt. 0958-Gate of ion 814966, 2696 814927, 2696711 some silt at a dep rown fine to med	ator- Rick. O Mitchell and ding the spli redging resu open too wi 5718 in cut 1 at cut 1 at oth of 12.88	710- Dredge Raymond att t scow Might med at a dep de, repairs clo 1 at a depth of a depth of 14 '. 1213-Dred	plant tal empting y Quinn. Ith of 12 ose it up of 15.77' .46' 113 ge Plant	kes its grepairs 0920- ' in cut 1. , 1126- 84-Dredge moves to
Visitors:										
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		Insp	ect	ion Report			
Inspector:	Christophe	r Stillman			Date:	5/23/2014	
Contractor:	Cashman			Foreman/Supt:	Thomas	s Mitchell	
Weather	AM: PM:	Cloudy, SE 5-10kts Partly Cloudy Winds 8	3-10	Temperature knts. SE	AM: PM:	54 68	
Tides	High Low		AM AM	1626 2314	PM PM		
Contractor Ac	tivities: (Cor	itinued from Page 1)					
while the Tug Lu new cut 3 location 1400-Dredging so cell area of cut 3 fine to medium 58.5' on the stern stops while the cut 2696771. 1605-Mighty Quinn to Wood 1 to staging position at the Line Cut of the	cinda Smith on: 814938, tops for a sh - skiff busy, SAND, with s and 9' on th dredge plant Wood 1 calls staging area ng area, and HCC. Mighty	brings the Mighty Quir 2696807- Brown fine the Mighty Quir 2696807- Brown fine the fit to the west to begin delaying the move. 14 ome silt at a dredge delay be bow. 1538- The split Wood 1 moves to the for tug to remove Might 1720-Mighty Quinnat 1755 dredge crew development of the for offshore with the form of the first delay and the form of the first delay of the first delay for offshore first delay first delay for offshore first delay first delay for offshore first delay first delay for offshore first delay first delay for offshore first d	o me o me o dre 37-D epth scov west ghty clear	ongside the Wood dium SAND with dging down the regregation resumes of 15.65'. 1438-7 w Mighty Quinn is to finish the ent Quinn from curtated for offshore dets. 1852-Lucinda	d's port side some Silt a north entral at location The split sco s drafting 9 trance chan ained area. isposal. 17	e. 1328-Dredge ta dredge de nce channel a 814870, 269 ow Mighty Qu ' Fore/Aft. 15 nel- new loca 1645-Lucinda S ves dredge pla	ging resumes at epth of 15.78'. rea of the CAD 6788 in cut 3- stiff ainn is drafting at 640-Dredging at 640 at 64
Problems/Issu	ues or Action	Items:					
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				1113	specii	on Report					
Inspector:	Brett Young					Date: 5/24/2014					
Contractor:	Cashman					Foreman/Supt:	The	omas M	itchell		
Weather	AM: PM:	Cloud		n. Winds	s 8-15 k	Temperature ants. NNE	AN PN		63 49		
Tides	High Low		045 104		_AM _AM	1727 -	PM PM				
Manpower O	nsite					Equipment Ons	site				
manpower o	Foreman Engineer Operators Mate Deckhand Other:	1 1 1		12 12 12 12	Hrs Hrs Hrs Hrs Hrs Hrs	Description:	Dale P Lucino Gray S M.E.R AF Ma	la Smith	lin SEI 38	Hrs Hrs Hrs Hrs Hrs	12 12 4 12
Contractor Ac	tivities:										
0630-Crew aboa adjusting lines at 2696879, 81510 off at staging are continues, mate balance of water aft. 1235-Dred Cut-7, Sta.6+41, Dredging at 2690 curtain is opened 1808-Lucinda Snarminal.	nd painting m 4. 0815-Luci ea, tug ties up rial observed r. 1036-Drec ging at a posi 2696960, 81 6875, 815254 d. 1740-Sco	narks on nda Sn along to be dging s tion of 5176. l. 170 w MER	on closonith and side Norwiges (* 2696** 1523-94-Dre	sing cabled scow Wood 1. In sand (sproblem 884, 81! Income score) or the same state of the same state	e. 071 Mighty 0910- some sin with s 5190. 1 ng in Cu cut-6,	4-Dredging beging value of the degree of the	ns in Cu orthbou ons to 2 50%-75 at 1050 scow s 924, 81 904, 81 disposa	nt-6, Sta and thro 2696875 % dred D. 1055 hifted fo 5254, m 5270. 1	-5+55, at a ugh the br , 815141. ged materi s-Scow dra orward. 1 naterial bro 735-Dredg drafting 1	n position ridge; sc 0940-D al with the fting 8'-I 355-Dre own san ging stop 1' fwd. 2	on of ow tied redging the 6"fwd 7' edging in d. 1628- os, silt 12'-6"aft.
Signature: Title:	Brett Young Environmen		pecto	r				Date: <u>5/</u> Page:	24/14 1of2	1	
Copy to:	File							File: DI	R_LHCC_0	52414	

Attachment 2 Water Quality Monitoring Forms

 PROJECT:
 New Bedford Harbor Lower Harbor CAD Cell

 JOB NUMBER:
 6724

 SURVEY DATE:
 5/21/2014

 MONITORS:
 Kaios Ryan

 WEATHER CONDITIONS:
 Low:
 46
 High:
 71

 WIND CONDITIONS:
 Speed:
 5-9 MPH
 Direction:
 SE

 PRIOR STORM EVENTS:
 DREDGE / SCOW Position:
 Northing/Easting:

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



TYPE OF WATER QUALI TIDE INFORMATION:		0151/1424		0737/2001				/ \ 1	(上入)
	SAMPLING PERFORMED			IF YES, ATTA	CH COC FOR	RMS		_ / \1	
GENERAL NOTES:		(· = 0 , · · 0)		2,		*			
					UP-CURR	<u>ENT</u>			
			TOTAL WATER	0.44401.5	TURRIDITY			DEL ATIVE DOCUTION	NUMBER OF HOURS
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
			` '	.,,					
052114-0-1-1	045404 0007040	0747	4	1	3.51	Apex wqm	FI 1/011-	0001 0 - (D d	
052114-0-1-2 052114-0-1-4	815101, 2697016	0749 0751	4.1	2 4	3.51 5.14	sterm lhcc 052114	Flood/Slack	200' S of Dredge	0
052114-0-1-4	l	0/51	AVERAGE 1	TURBIDITY:	4.05	032114			
052114-2-1-1	045000 2000445	0937		1	2.22	Apex wqm	- ·		
052114-2-1-3.5	815066, 2696415	0939	7.8	3.5	3.15	sterm Ihcc	Flooding	200' S of Dredge	2
052114-2-1-7		0941	AVERAGE	7 TURBIDITY:	2.49 2.62	052114			
			AVERAGE	TURBIDITT.	2.02				
052114-4-1-1		1145		1	2.08	Apex wqm	Flooding		4
052114-4-1-4	815096, 2696485	1147	8.3	4	1.86	sterm Ihcc		200' S of Dredge	
052114-4-1-8		1149		8	3.16	052114			
			AVERAGE	TURBIDITY:	2.37				
052114-6-1-1		1343		1	2.23	Apex wqm		T T	
052114-6-1-5	815018, 2696443	1345	10.5	5	1.76	sterm Ihcc	Flooding	200' S of Dredge	6
052114-6-1-10		1347		10	1.47	052114			
			AVERAGE	TURBIDITY:	1.82				
052114-8-1-1	1	4527	1	1	2.13	An av ware		- T	
		1537				Apex wqm sterm lhcc	Ebbing	200' N of Dredge	8
	815179, 2697361	1539	9	4			g		
052114-8-1-4	815179, 2697361	1539 1541	9 AVERAGE	4 8 TURBIDITY:	2.25 2.43 2.27	052114			
052114-8-1-4	815179, 2697361			8	2.43	052114			
052114-8-1-4	815179, 2697361			8 TURBIDITY:	2.43 2.27	052114	TIDAL STAGE	DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
052114-8-1-4 052114-8-1-8 Monitoring ID #	NORTHING / EASTING	1541 TIME 0740	AVERAGE TOTAL WATER DEPTH (ft)	8 TURBIDITY: SAMPLE DEPTH (ft)	2.43 2.27 Down-Cur TURBIDITY (NTUs) 3.1	052114 rent GPS FILE NAME Apex wqm	TIDAL STAGE	DISTANCE FROM LOCATION	DREDGING
052114-8-1-4 052114-8-1-8 Monitoring ID # 052114-0-9-1 052114-0-9-2.5	1	TIME 0740 0742	AVERAGE TOTAL WATER	SAMPLE DEPTH (ft)	2.43 2.27 Down-Cur TURBIDITY (NTUs) 3.1 4.12	052114 rent GPS FILE NAME Apex wqm sterm lhcc		DISTANCE FROM	
052114-8-1-4 052114-8-1-8 Monitoring ID #	NORTHING / EASTING	1541 TIME 0740	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft) 1 2.5 5	2.43 2.27 Down-Cur TURBIDITY (NTUs) 3.1 4.12 5.82	052114 rent GPS FILE NAME Apex wqm	TIDAL STAGE	DISTANCE FROM LOCATION	DREDGING
052114-8-1-4 052114-8-1-8 Monitoring ID # 052114-0-9-1 052114-0-9-2.5	NORTHING / EASTING	TIME 0740 0742	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft) 1 2.5 5 TURBIDITY:	2.43 2.27 Down-Cur TURBIDITY (NTUs) 3.1 4.12	052114 rent GPS FILE NAME Apex wqm sterm lhcc	TIDAL STAGE	DISTANCE FROM LOCATION	DREDGING
052114-8-1-4 052114-8-1-8 Monitoring ID # 052114-0-9-1 052114-0-9-2.5 052114-0-9-5	NORTHING / EASTING	TIME 0740 0742 0744	TOTAL WATER DEPTH (ft) 5.6 AVERAGE	SAMPLE DEPTH (II) 1 2.5 5 TURBIDITY:	2.43 2.27 Down-Cur TURBIDITY (NTUs) 3.1 4.12 5.82 4.35 0.29	O52114 GPS FILE NAME Apex wqm sterm lhcc O52114	TIDAL STAGE	DISTANCE FROM LOCATION	DREDGING
052114-8-1-4 052114-8-1-8 Monitoring ID # 052114-0-9-1 052114-0-9-5 052114-0-9-5	NORTHING / EASTING 815146, 2696448	TIME 0740 0742 0744	TOTAL WATER DEPTH (ft) 5.6 AVERAGE TURBIDITY	SAMPLE DEPTH (tt) 1 2.5 5 TURBIDITY: INCREASE:	2.43 2.27 Down-Cur TURBIDITY (NTUs) 3.1 4.12 5.82 4.35 0.29	O52114 Trent GPS FILE NAME Apex wqm sterm lhcc O52114 Apex wqm	TIDAL STAGE Flood/Slack	DISTANCE FROM LOCATION 15' N of Silt Curtain	DREDGING 0
Monitoring ID # 052114-0-9-1 052114-0-9-5 052114-0-9-1 052114-0-9-1 052114-0-9-1 052114-0-9-1	NORTHING / EASTING	TIME 0740 0742 0744 0947 0949	TOTAL WATER DEPTH (ft) 5.6 AVERAGE	SAMPLE DEPTH (ft) 1 2.5 5 TURBIDITY: INCREASE:	2.43 2.27 Down-Cur TURBIDITY (NTUs) 3.1 4.12 4.35 0.29 2.1 4.44	o52114 GPS FILE NAME Apex wqm sterm lhcc 052114 Apex wqm sterm lhcc	TIDAL STAGE	DISTANCE FROM LOCATION	DREDGING
Monitoring ID # 052114-9-1 052114-9-5 052114-9-1 052114-9-1 052114-9-1 052114-9-1 052114-9-1	NORTHING / EASTING 815146, 2696448	TIME 0740 0742 0744	TOTAL WATER DEPTH (ft) 5.6 AVERAGE TURBIDITY	SAMPLE DEPTH (tt) 1 2.5 5 TURBIDITY: INCREASE:	2.43 2.27 Down-Cur TURBIDITY (NTUs) 3.1 4.12 5.82 4.35 0.29	O52114 Trent GPS FILE NAME Apex wqm sterm lhcc O52114 Apex wqm	TIDAL STAGE Flood/Slack	DISTANCE FROM LOCATION 15' N of Silt Curtain	DREDGING 0
Monitoring ID # 052114-9-1 052114-9-5 052114-9-1 052114-9-1 052114-9-1 052114-9-1 052114-9-1	NORTHING / EASTING 815146, 2696448	TIME 0740 0742 0744 0947 0949	TOTAL WATER DEPTH (ft) 5.6 AVERAGE TURBIDITY	SAMPLE DEPTH (II) 1 2.5 5 TURBIDITY: INCREASE: 1 2 3 TURBIDITY:	2.43 2.27 Down-Cur TURBIDITY (NTUs) 3.1 4.12 5.82 4.35 0.29 2.1 4.44 4.48	o52114 GPS FILE NAME Apex wqm sterm lhcc 052114 Apex wqm sterm lhcc	TIDAL STAGE Flood/Slack	DISTANCE FROM LOCATION 15' N of Silt Curtain	DREDGING 0
Monitoring ID # 052114-0-9-1 052114-0-9-5 052114-0-9-5 052114-0-9-2 052114-2-9-1 052114-2-9-2 052114-2-9-3	NORTHING / EASTING 815146, 2696448	TIME 0740 0742 0744 0947 0949	TOTAL WATER DEPTH (tt) 5.6 AVERAGE TURBIDITY 4 AVERAGE	SAMPLE DEPTH (ft) 1 2.5 5 TURBIDITY: INCREASE: 1 2 3 TURBIDITY: INCREASE:	2.43 2.27 Down-Cur TURBIDITY (NTUs) 3.1 4.12 4.35 0.29 2.1 4.44 4.48 3.67 1.05	rent GPS FILE NAME Apex wqm sterm lhcc 052114 Apex wqm sterm lhcc 052114	TIDAL STAGE Flood/Slack	DISTANCE FROM LOCATION 15' N of Silt Curtain	DREDGING 0
052114-8-1-4 052114-8-1-8 Monitoring ID # 052114-0-9-1 052114-0-9-2.5 052114-0-9-5 052114-2-9-1 052114-2-9-3 052114-2-9-3	NORTHING / EASTING 815146, 2696448 8151401, 2697016	TIME 0740 0742 0744 0947 0949 0951	TOTAL WATER DEPTH (ft) 5.6 AVERAGE TURBIDITY 4 AVERAGE TURBIDITY	SAMPLE DEPTH (ft) 1 2.5 5 TURBIDITY: INCREASE: 1 1 2 3 TURBIDITY: INCREASE: 1	2.43 2.27 Down-Cur TURBIDITY (NTUs) 3.1 4.12 5.82 4.35 0.29 2.1 4.44 4.48 3.67 1.05	o52114 GPS FILE NAME Apex wqm sterm lhcc o52114 Apex wqm sterm lhcc O52114 Apex wqm Apex wqm	TIDAL STAGE Flood/Slack Flooding	DISTANCE FROM LOCATION 15' N of Silt Curtain 15' N of Silt Curtain	DREDGING 0
Monitoring ID # Monitoring ID # 052114-0-9-1 052114-0-9-5 052114-0-9-5 052114-2-9-1 052114-2-9-3 052114-2-9-3 052114-2-9-3	NORTHING / EASTING 815146, 2696448	1541 TIME 0740 0742 0744 0947 0949 0951	TOTAL WATER DEPTH (tt) 5.6 AVERAGE TURBIDITY 4 AVERAGE	SAMPLE DEPTH (II) 1 2.5 5 TURBIDITY: INCREASE: 1 2 3 TURBIDITY: INCREASE: 1 2.5	2.43 2.27 Down-Cur TURBIDITY (NTUs) 3.1 4.12 5.82 4.35 0.29 2.1 4.44 4.48 3.67 1.05	O52114 GPS FILE NAME Apex wqm sterm lhcc O52114 Apex wqm sterm lhcc O52114 Apex wqm sterm lhcc S52114	TIDAL STAGE Flood/Slack	DISTANCE FROM LOCATION 15' N of Silt Curtain	DREDGING 0
052114-8-1-4 052114-8-1-8 Monitoring ID # 052114-0-9-1 052114-0-9-2.5 052114-0-9-5 052114-2-9-1 052114-2-9-3 052114-2-9-3	NORTHING / EASTING 815146, 2696448 8151401, 2697016	TIME 0740 0742 0744 0947 0949 0951	TOTAL WATER DEPTH (ft) 5.6 AVERAGE TURBIDITY 4 AVERAGE TURBIDITY 5.6	SAMPLE DEPTH (ft) 1 2.5 5 TURBIDITY: INCREASE: 1 1 2 3 TURBIDITY: INCREASE: 1	2.43 2.27 Down-Cur TURBIDITY (NTUs) 3.1 4.12 5.82 4.35 0.29 2.1 4.44 4.48 3.67 1.05	o52114 GPS FILE NAME Apex wqm sterm lhcc o52114 Apex wqm sterm lhcc O52114 Apex wqm Apex wqm	TIDAL STAGE Flood/Slack Flooding	DISTANCE FROM LOCATION 15' N of Silt Curtain 15' N of Silt Curtain	DREDGING 0
Monitoring ID # 052114-8-1-8 Monitoring ID # 052114-0-9-1 052114-0-9-2.5 052114-0-9-5 052114-2-9-1 052114-2-9-3 052114-2-9-3 052114-4-9-1 052114-4-9-1 052114-4-9-1	NORTHING / EASTING 815146, 2696448 8151401, 2697016	1541 TIME 0740 0742 0744 0947 0949 0951	TOTAL WATER DEPTH (ft) 5.6 AVERAGE TURBIDITY 4 AVERAGE TURBIDITY 5.6	SAMPLE DEPTH (ft) 1 2.5 5 TURBIDITY: INCREASE: 1 2 3 TURBIDITY: INCREASE: 1 2.5 5 TURBIDITY: INCREASE:	2.43 2.27 Down-Cur TURBIDITY (NTUs) 3.1 4.12 5.82 4.35 0.29 2.1 4.44 4.48 3.67 1.05 3.3 3.36 3.55	O52114 GPS FILE NAME Apex wqm sterm lhcc O52114 Apex wqm sterm lhcc O52114 Apex wqm sterm lhcc S52114	TIDAL STAGE Flood/Slack Flooding	DISTANCE FROM LOCATION 15' N of Silt Curtain 15' N of Silt Curtain	DREDGING 0
Monitoring ID # 052114-8-1-8 Monitoring ID # 052114-0-9-1 052114-0-9-5 052114-0-9-5 052114-2-9-1 052114-2-9-3 052114-2-9-3 052114-2-9-3 052114-4-9-1 052114-4-9-1 052114-4-9-5	NORTHING / EASTING 815146, 2696448 8151401, 2697016	1541 TIME 0740 0742 0744 0947 0949 0951 1156 1158 1200	TOTAL WATER DEPTH (#) 5.6 AVERAGE TURBIDITY 4 AVERAGE TURBIDITY 5.6 AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE	SAMPLE DEPTH (II) 1 2.5 5 TURBIDITY: INCREASE: 1 2 3 TURBIDITY: INCREASE: 1 2.5 5 TURBIDITY: INCREASE: 1 1 2.5 5 TURBIDITY: INCREASE: 1 1 2.5 5 TURBIDITY: INCREASE:	2.43 2.27 Down-Cur TURBIDITY (NTUs) 3.1 4.12 5.82 4.35 0.29 2.1 4.44 4.48 3.67 1.05 3.3 3.36 3.55 3.40 1.04	Apex wqm sterm lhcc 052114 Apex wqm sterm lhcc 052114 Apex wqm sterm lhcc 052114	TIDAL STAGE Flood/Slack Flooding	DISTANCE FROM LOCATION 15' N of Silt Curtain 15' N of Silt Curtain	DREDGING 0
Monitoring ID # 052114-8-1-8 Monitoring ID # 052114-0-9-1 052114-0-9-1 052114-0-9-5 052114-2-9-1 052114-2-9-3 052114-2-9-3 052114-4-9-1 052114-4-9-5 052114-4-9-5	NORTHING / EASTING 815146, 2696448 8151401, 2697016 GPS DATA ERROR	1541 TIME 0740 0742 0744 0947 0949 0951 1156 1158 1200	TOTAL WATER DEPTH (ft) 5.6 AVERAGE TURBIDITY 4 AVERAGE TURBIDITY 5.6 AVERAGE TURBIDITY	SAMPLE DEPTH (ft) 1 2.5 5 TURBIDITY: INCREASE: 1 2 3 TURBIDITY: INCREASE: 1 5 TURBIDITY: INCREASE: 1 1 1 2 1 3 TURBIDITY: INCREASE: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2.43 2.27 Down-Cur TURBIDITY (NTUs) 3.1 4.12 5.82 4.35 0.29 2.1 4.44 4.48 3.67 1.05 3.3 3.36 3.55 3.40 1.04	rent GPS FILE NAME Apex wqm sterm lhcc 052114 Apex wqm sterm lhcc 052114 Apex wqm sterm lhcc 052114 Apex wqm	Flooding Flooding	DISTANCE FROM LOCATION 15' N of Silt Curtain 15' N of Silt Curtain	DREDGING 0 2
Monitoring ID # 052114-8-1-8 Monitoring ID # 052114-0-9-1 052114-0-9-2-5 052114-0-9-5 052114-2-9-1 052114-2-9-3 052114-2-9-3 052114-2-9-3 052114-3-9-1 052114-3-9-1 052114-3-9-1 052114-3-9-1 052114-3-9-3 052114-3-9-1	NORTHING / EASTING 815146, 2696448 8151401, 2697016	1541 TIME 0740 0742 0744 0947 0949 0951 1156 1158 1200	TOTAL WATER DEPTH (#) 5.6 AVERAGE TURBIDITY 4 AVERAGE TURBIDITY 5.6 AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE	SAMPLE DEPTH (ft) 1 2.5 5 TURBIDITY: INCREASE: 1 2 3 TURBIDITY: INCREASE: 5 5 TURBIDITY: INCREASE: 1 2.5 5 TURBIDITY: INCREASE: 1 3.5	2.43 2.27 Down-Cur TURBIDITY (NTUs) 3.1 4.12 5.82 4.35 0.29 2.1 4.44 4.48 3.67 1.05 3.36 3.36 3.36 3.36 3.40 1.04	GPS FILE NAME Apex wqm sterm lhcc 052114	TIDAL STAGE Flood/Slack Flooding	DISTANCE FROM LOCATION 15' N of Silt Curtain 15' N of Silt Curtain	DREDGING 0
Monitoring ID # Monitoring ID # 052114-0-9-1 052114-0-9-5 052114-0-9-5 052114-2-9-1 052114-2-9-3 052114-2-9-3 052114-2-9-3	NORTHING / EASTING 815146, 2696448 8151401, 2697016 GPS DATA ERROR	1541 TIME 0740 0742 0744 0947 0949 0951 1156 1158 1200	TOTAL WATER DEPTH (tt) 5.6 AVERAGE TURBIDITY 4 AVERAGE TURBIDITY 5.6 AVERAGE TURBIDITY 7.6	SAMPLE DEPTH (ft) 1 2.5 5 TURBIDITY: INCREASE: 1 2 3 TURBIDITY: INCREASE: 5 5 TURBIDITY: INCREASE: 1 1 2.5 5 TURBIDITY: INCREASE: 1 3.5 7	2.43 2.27 Down-Cur TURBIDITY (NTUs) 3.1 4.12 5.82 4.35 0.29 2.1 4.44 4.48 3.67 1.05 3.3 3.36 3.36 1.04 4.38 4.28 3.95	rent GPS FILE NAME Apex wqm sterm lhcc 052114 Apex wqm sterm lhcc 052114 Apex wqm sterm lhcc 052114 Apex wqm	Flooding Flooding	DISTANCE FROM LOCATION 15' N of Silt Curtain 15' N of Silt Curtain	DREDGING 0 2
Monitoring ID # 052114-8-1-8 Monitoring ID # 052114-0-9-1 052114-0-9-2-5 052114-0-9-5 052114-2-9-1 052114-2-9-3 052114-2-9-3 052114-2-9-3 052114-3-9-1 052114-3-9-1 052114-3-9-1 052114-3-9-1 052114-3-9-3 052114-3-9-1	NORTHING / EASTING 815146, 2696448 8151401, 2697016 GPS DATA ERROR	1541 TIME 0740 0742 0744 0947 0949 0951 1156 1158 1200	TOTAL WATER DEPTH (tt) 5.6 AVERAGE TURBIDITY 4 AVERAGE TURBIDITY 5.6 AVERAGE TURBIDITY 7.6	SAMPLE DEPTH (ft) 1 2.5 5 TURBIDITY: INCREASE: 1 2 3 TURBIDITY: INCREASE: 1 2.5 5 TURBIDITY: INCREASE: 1 3.5 7 TURBIDITY: INCREASE:	2.43 2.27 Down-Cur TURBIDITY (NTUs) 3.1 4.12 5.82 4.35 0.29 2.1 4.44 4.48 3.67 1.05 3.36 3.36 3.36 3.36 3.40 1.04	GPS FILE NAME Apex wqm sterm lhcc 052114	Flooding Flooding	DISTANCE FROM LOCATION 15' N of Silt Curtain 15' N of Silt Curtain	DREDGING 0 2
Monitoring ID # 052114-8-1-8 Monitoring ID # 052114-0-9-1 052114-0-9-1 052114-0-9-5 052114-2-9-1 052114-2-9-3 052114-2-9-3 052114-2-9-3 052114-3-9-1 052114-3-9-1 052114-3-9-1 052114-3-5 052114-3-9-1 052114-3-9-1 052114-3-9-1 052114-3-9-1 052114-3-9-3 052114-3-9-1 052114-3-9-1 052114-3-9-3 052114-3-9-1	NORTHING / EASTING 815146, 2696448 8151401, 2697016 GPS DATA ERROR	1541 TIME 0740 0742 0744 0947 0949 0951 1156 1158 1200 1354 1356 1358	TOTAL WATER DEPTH (tt) 5.6 AVERAGE: TURBIDITY 4 AVERAGE: TURBIDITY 5.6 AVERAGE: TURBIDITY 7.6 AVERAGE:	SAMPLE DEPTH (ft) 1 2.5 5 TURBIDITY: INCREASE: 1 2 3 TURBIDITY: INCREASE: 1 2.5 5 TURBIDITY: INCREASE: 1 3.5 7 TURBIDITY: INCREASE: INCREASE:	2.43 2.27 Down-Cur TURBIDITY (NTUs) 3.1 4.12 5.82 4.35 0.29 2.1 4.44 4.48 3.67 1.05 3.3 3.36 3.36 3.40 1.04 4.38 4.28 3.95 4.20 2.38	Apex wam sterm lhcc 052114	Flooding Flooding	DISTANCE FROM LOCATION 15' N of Silt Curtain 15' N of Silt Curtain	DREDGING 0 2
Monitoring ID # 052114-8-1-8 Monitoring ID # 052114-0-9-1 052114-0-9-1 052114-0-9-5 052114-2-9-1 052114-2-9-3 052114-2-9-3 052114-2-9-3 052114-4-9-1 052114-4-9-5 052114-6-9-1 052114-6-9-3-5 052114-6-9-7	NORTHING / EASTING 815146, 2696448 8151401, 2697016 GPS DATA ERROR 815212, 2697073	1541 TIME 0740 0742 0744 0947 0949 0951 1156 1158 1200 1354 1358	TOTAL WATER DEPTH (II) 5.6 AVERAGE TURBIDITY 4 AVERAGE TURBIDITY 5.6 AVERAGE TURBIDITY 7.6 AVERAGE TURBIDITY	SAMPLE DEPTH (ft) 1 2.5 5 TURBIDITY: INCREASE: 1 2 3 TURBIDITY: INCREASE: 1 2.5 5 TURBIDITY: INCREASE: 1 1 2.5 5 TURBIDITY: INCREASE: 1 1 2.5 5 TURBIDITY: INCREASE: 1 1 3.5 7 TURBIDITY: INCREASE: 1 1 3.5 7	2.43 2.27 Down-Cur TURBIDITY (NTUs) 3.1 4.12 5.82 4.35 0.29 2.1 4.44 4.48 3.67 1.05 3.3 3.36 3.55 3.40 1.04 4.38 4.28 3.95 4.20 2.38	Apex wqm sterm lhcc 052114	Flooding Flooding	DISTANCE FROM LOCATION 15' N of Silt Curtain 15' N of Silt Curtain 15' N of Silt Curtain	2 4
Monitoring ID # 052114-8-1-8 Monitoring ID # 052114-0-9-1 052114-0-9-5 052114-0-9-5 052114-2-9-1 052114-2-9-3 052114-2-9-3 052114-4-9-1 052114-4-9-5 052114-6-9-1 052114-6-9-1 052114-6-9-7	NORTHING / EASTING 815146, 2696448 8151401, 2697016 GPS DATA ERROR	1541 TIME 0740 0742 0744 0947 0949 0951 1156 1158 1200 1354 1356 1358	TOTAL WATER DEPTH (tt) 5.6 AVERAGE: TURBIDITY 4 AVERAGE: TURBIDITY 5.6 AVERAGE: TURBIDITY 7.6 AVERAGE:	SAMPLE DEPTH (ft) 1 2.5 5 TURBIDITY: INCREASE: 1 2.5 5 TURBIDITY: INCREASE: 1 2.5 5 TURBIDITY: INCREASE: 1 2.5 5 TURBIDITY: INCREASE: 1 4.5 3.5 TURBIDITY: INCREASE: 1 4.5 4.5	2.43 2.27 Down-Cur TURBIDITY (NTUs) 3.1 4.12 5.82 4.35 0.29 2.1 4.44 4.48 3.67 1.05 3.3 3.36 3.55 3.40 1.04 4.38 4.28 3.95 4.20 2.38	Apex wqm sterm lhcc 052114	Flooding Flooding	DISTANCE FROM LOCATION 15' N of Silt Curtain 15' N of Silt Curtain	DREDGING 0 2
Monitoring ID # 052114-8-1-8 Monitoring ID # 052114-0-9-1 052114-0-9-1 052114-0-9-5 052114-0-9-5 052114-2-9-1 052114-2-9-3 052114-2-9-3 052114-4-9-1 052114-4-9-1 052114-6-9-1 052114-6-9-7	NORTHING / EASTING 815146, 2696448 8151401, 2697016 GPS DATA ERROR 815212, 2697073	1541 TIME 0740 0742 0744 0947 0949 0951 1156 1158 1200 1354 1358	TOTAL WATER DEPTH (ft) 5.6 AVERAGE TURBIDITY 4 AVERAGE TURBIDITY 5.6 AVERAGE TURBIDITY 7.6 AVERAGE TURBIDITY 7.6 AVERAGE TURBIDITY 9.4	SAMPLE DEPTH (ft) 1 2.5 5 TURBIDITY: INCREASE: 1 2 3 TURBIDITY: INCREASE: 1 1 2.5 5 TURBIDITY: INCREASE: 1 1 2.5 5 TURBIDITY: INCREASE: 1 1 3.5 7 TURBIDITY: INCREASE: 1 4 4.5 9	2.43 2.27 Down-Cur TURBIDITY (NTUs) 3.1 4.12 4.35 0.29 2.1 4.44 4.48 3.67 1.05 3.3 3.36 3.55 3.40 1.04 4.38 4.28 3.95 4.20 2.38	Apex wqm sterm lhcc 052114	Flooding Flooding	DISTANCE FROM LOCATION 15' N of Silt Curtain 15' N of Silt Curtain 15' N of Silt Curtain	2 4
Monitoring ID # 052114-8-1-8 Monitoring ID # 052114-0-9-1 052114-0-9-1 052114-0-9-5 052114-2-9-1 052114-2-9-3 052114-2-9-3 052114-4-9-1 052114-4-9-5 052114-6-9-1 052114-6-9-7	NORTHING / EASTING 815146, 2696448 8151401, 2697016 GPS DATA ERROR 815212, 2697073	1541 TIME 0740 0742 0744 0947 0949 0951 1156 1158 1200 1354 1356 1358	TOTAL WATER DEPTH (ft) 5.6 AVERAGE TURBIDITY 4 AVERAGE TURBIDITY 5.6 AVERAGE TURBIDITY 7.6 AVERAGE TURBIDITY 7.6 AVERAGE TURBIDITY 9.4	SAMPLE DEPTH (ft) 1 2.5 5 TURBIDITY: INCREASE: 1 2 3 TURBIDITY: INCREASE: 1 2.5 5 TURBIDITY: INCREASE: 1 4.5 9 TURBIDITY: INCREASE: 1 7 TURBIDITY: INCREASE: INCREASE	2.43 2.27 Down-Cur TURBIDITY (NTUs) 3.1 4.12 5.82 4.35 0.29 2.1 4.44 4.48 3.67 1.05 3.3 3.36 3.55 3.40 1.04 4.38 4.28 3.95 4.20 2.38	Apex wqm sterm lhcc 052114	Flooding Flooding	DISTANCE FROM LOCATION 15' N of Silt Curtain 15' N of Silt Curtain 15' N of Silt Curtain	2 4

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

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

