



WATER QUALITY MONITORING REPORT

Dredge and Cap Placement Operations

New Bedford Harbor Dredge Project - Phase II

(Completion of Initial Construction of CAD Cell and OU #3 Cap Placement)

7/6/05 – 7/22/05

To: Paul Craffey (MADEP)
David Dickerson (EPA)

From: Stephen Tobin
Apex Environmental, Inc.

Re: New Bedford Harbor Dredge – Phase II
Water Quality Monitoring Report

Date: July 26, 2005

Attached is the water quality monitoring results from the dredging operations for the New Bedford Harbor Dredge – Phase II from July 6, 2005 through July 22, 2005. Also included are the monitoring results from EPA Operable Unit #3 (OU #3) cap placement from July 6, 2005 through July 22, 2005. Water quality monitoring was performed in accordance with the Water Quality Monitoring Plan dated 01/05/05 and Figure 6 (Water Quality Monitoring Decision Sequence) and Figure 7 (Analytical Protocol Decision Sequence) dated March 2004 provided to Apex by the Environmental Protection Agency (EPA). Included in this report are spreadsheets tabulating the turbidity results from each day and a map of the sampling locations.

Following the guidelines of the WQMP and EPA documents, monitoring locations for water turbidity recorded an average turbidity over various water depths, up and down-current from the dredge or material placement operations, depending on tide. The values recorded as the Reference Site Turbidity were taken from up-current monitoring locations, or from monitoring events which occurred before dredge or material placement operations began. The Reference Turbidity Value was then compared to down-current turbidity values measured at regular time intervals after operations had begun.

Water Quality Monitoring Results Summary (Dredging):

For dredge operations, an exceedance of the project turbidity standard occurs when the average turbidity down-current exceeds the Reference Turbidity Value plus the permissible turbidity increase, as outlined in Section 3.3 of the WQMP. For a reference value less than 10 NTUs, the down-current permissible turbidity increase is plus 20 NTUs. The permissible turbidity increases for operations with or without silt curtains are the same, only the distance from the dredge to monitoring locations changes.

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Dredging events were monitored on six days; 7/6/05, 7/7/05, 7/11/05, 7/12/05, 7/15/05 and 7/22/05 during dredging operations. Water quality monitors selected various sample locations around the dredging area to collect data. There were no turbidity exceedances to report during the dredging events.

Water Quality Monitoring Results Summary (Cap Placement):

Water quality monitoring during cap placement in the OU #3 area followed the guidelines set forth in the documents provided by the EPA. Material placement events were monitored on six days; 7/6/05, 7/7/05, 7/8/05, 7/12/05, 7/14/05 and 7/22/05. Water quality monitors selected various sample locations around the placement area to the down-current flow of water from the cap placement operations. There were no turbidity exceedances to report during the material placement events.

The preliminary results from the second phase of water quality monitoring show that dredging and cap placement operations have stayed within the permissible turbidity levels set forth in the Water Quality Monitoring Plan and the EPA documents provided on the dates which monitoring occurred.

If you have any questions or comments regarding these results, feel free to contact me at 508-353-5202.

Stephen Tobin
Apex Environmental, Inc.

Attachments

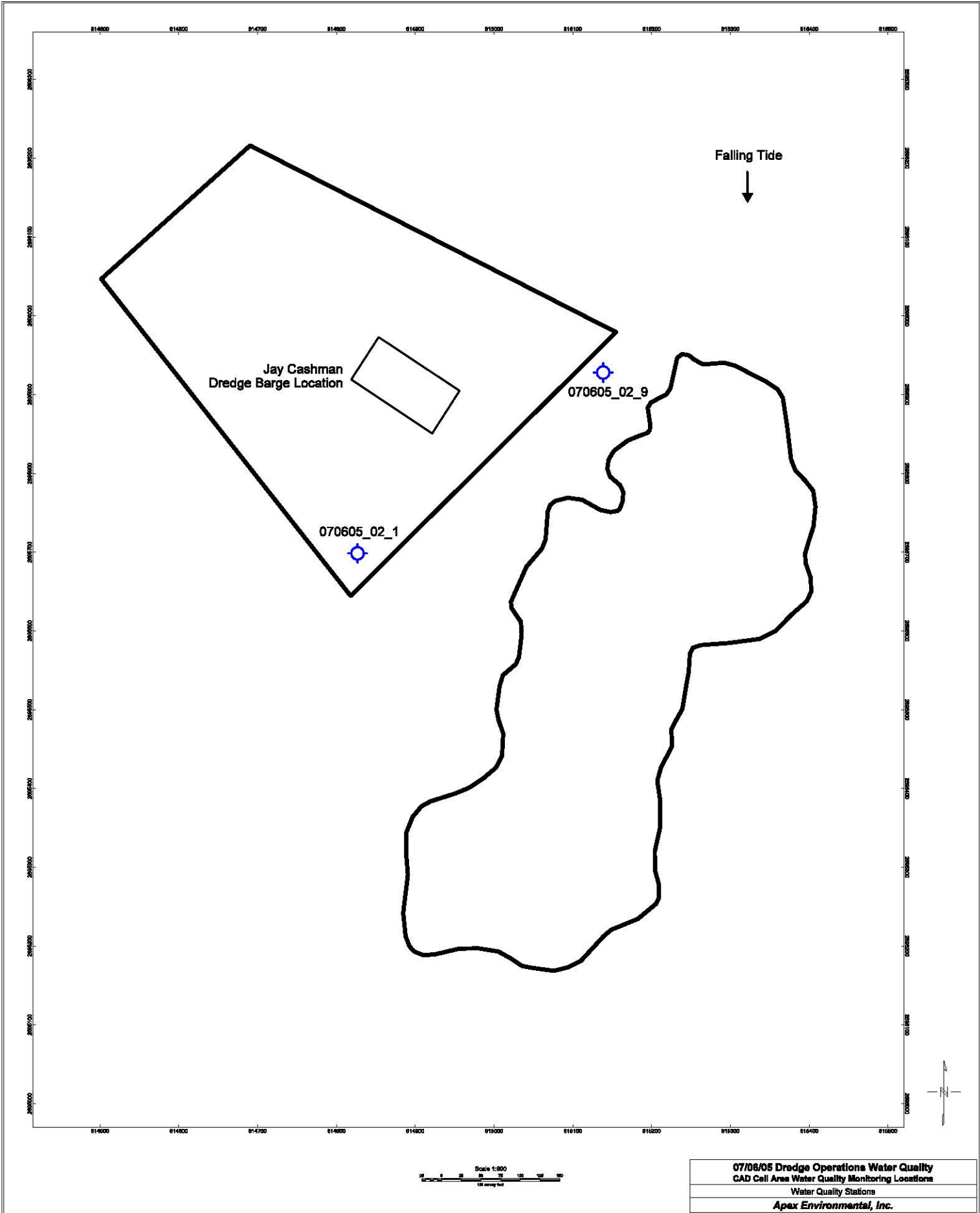
7/6/2005

New Bedford Harbor Dredge Project - Phase II
Water Quality Monitoring - CAD Cell Excavation Area

Tide Time	Time	ID	Coordinates	Up/Down	Depth (ft.)	Ave. Turbidity	Permissible Turbidity	Weather Conditions	Vessel
High 8:40				Current		(NTUs)	Increase (NTUs)		Traffic
Falling Tide	12:00	070605_02_1	814826.81	Up	5	2.8		Cloudy, ~80 Degrees	None
		(Background)	2695698.48		10	2.5		S Wind 1-5 knots	
					15	4.7			
					20	6.0			
					25	6.0			
					30	3.5			
					AVERAGE	4.3	24.3		
	11:50	070605_02_9	815138.52	Down	5	9.5		Cloudy, ~80 Degrees	None
			2695928.02		10	10.0		S Wind 1-5 knots	
					15	14.5			
				20	21.5				
				25	10.5				
				30	9.0				
Low 13:40					AVERAGE	12.5	11.8 NTUs		

Below Permissible
Turbidity Increase Limit

Notes: An X in the vessel traffic column indicates that either a vessel had passed or there was a movement of spuds that may have had an effect on turbidity.



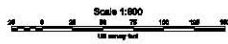
Falling Tide



Jay Cashman
Dredge Barge Location

070605_02_9

070605_02_1



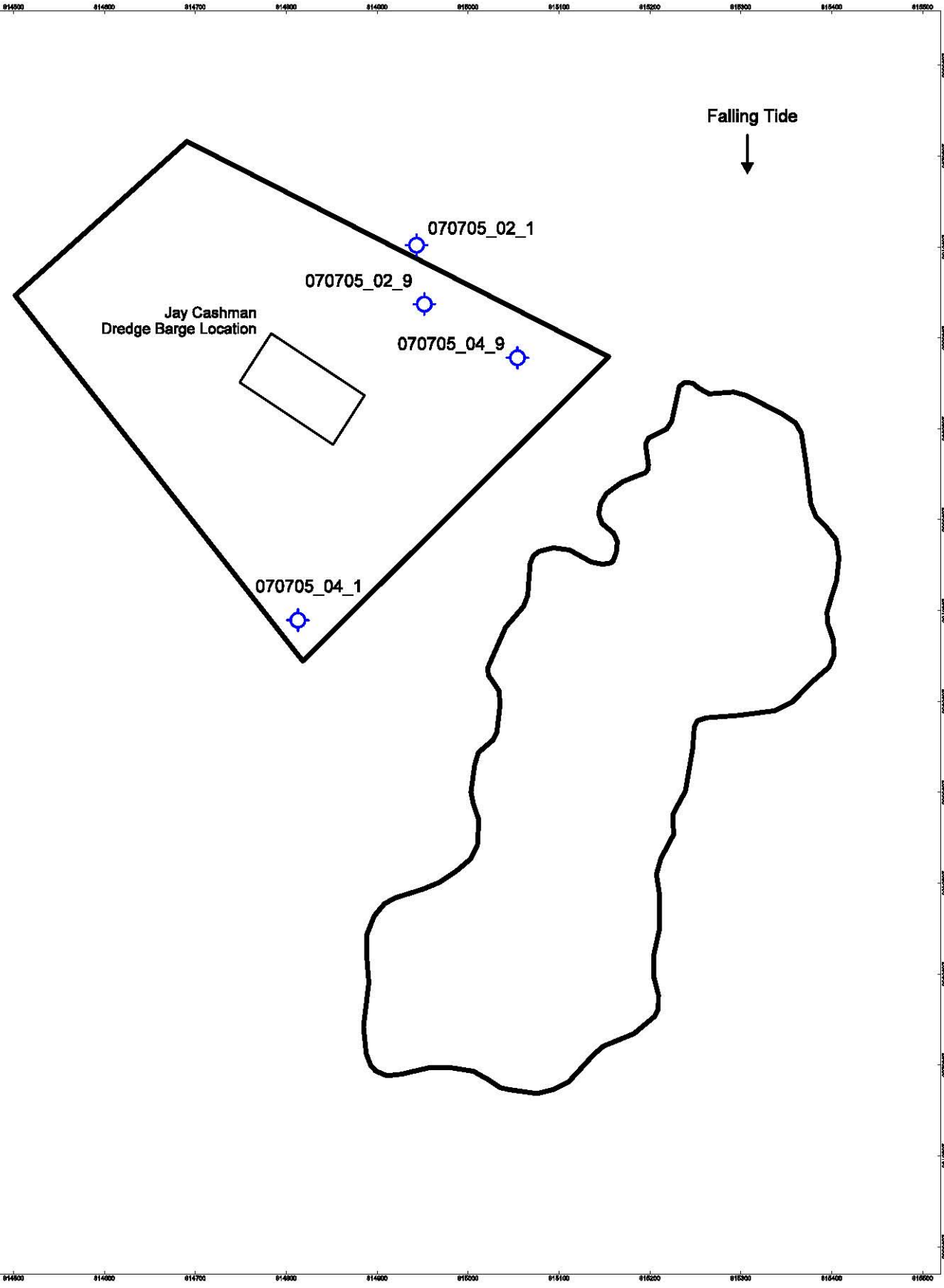
07/08/05 Dredge Operations Water Quality
CAD Cell Area Water Quality Monitoring Locations
Water Quality Stations
Apex Environmental, Inc.

7/7/2005

New Bedford Harbor Dredge Project - Phase II
Water Quality Monitoring - CAD Cell Excavation Area

Tide Time	Time	ID	Coordinates	Up/Down	Depth (ft.)	Ave. Turbidity	Permissible Turbidity	Weather Conditions	Vessel
High 9:21				Current		(NTUs)	Increase (NTUs)		Traffic
Falling Tide	11:56	070705_02_1 (Background)	814943.23 2696102.07	Up	5	5.5		Cloudy, ~70 Degrees N Wind 5-15 knots	None
					10	6.0			
					15	6.3			
					20	11.0			
					25	17.0			
					30	22.5			
					AVERAGE	11.4	31.4		
	12:05	070705_02_9	815780.97 2695561.53	Down	5	6.5		Cloudy, ~70 Degrees N Wind 5-15 knots	None
					10	8.0			
					15	7.5			
					20	9.5			
					25	13.5			
					30	7.5			
					AVERAGE	8.8	22.6 NTUs		
	13:17	070705_04_1 (Background)	814951.76 2696037.2	Up	5	6.5	Below Permissible Turbidity Increase Limit	Cloudy, ~70 Degrees N Wind 5-15 knots	None
				10	6.5				
				15	22.0				
				20	11.7				
				25	16.0				
				30	16.0				
				AVERAGE	13.1	33.1			
13:23	070705_04_9	814812.74 2695689.43	Down	5	2.2		Cloudy, ~70 Degrees N Wind 5-15 knots	None	
				10	2.6				
				15	2.3				
				20	3.6				
				25	4.8				
				30	10				
Low 14:47				AVERAGE	4.3	(28.8 Below Limit)			

Notes: An X in the vessel traffic column indicates that either a vessel had passed or there was a movement of spuds that may have had an effect on turbidity.

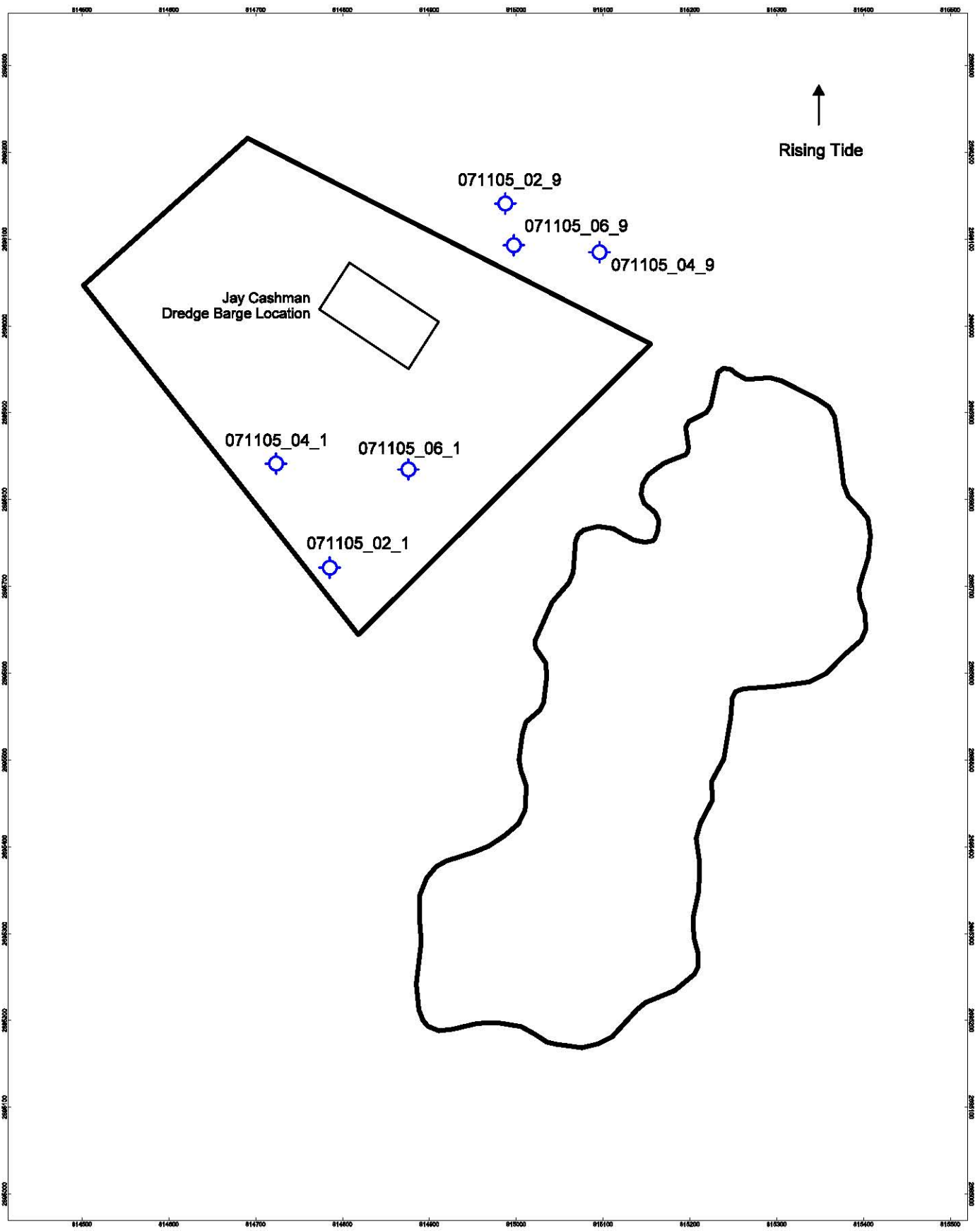


**07/07/05 Dredge Operations Water Quality
CAD Cell Area Water Quality Monitoring Locations**
Water Quality Stations
Apex Environmental, Inc.

7/11/2005
New Bedford Harbor Dredge Project - Phase II
Water Quality Monitoring - CAD Cell Excavation Area

Tide Time	Time	ID	Coordinates	Up/Down	Depth (ft.)	Ave. Turbidity	Permissible Turbidity	Weather Conditions	Vessel
Low 5:14				Current		(NTUs)	Increase (NTUs)		Traffic
Rising Tide	8:43	071105_02_1 (Background)	814739.92 2695456.99	Up	5 10 15 20 25 30	4.8 4.8 5.0 4.2 4.4 5.5		Sunny, ~80 Degrees NE Wind 5-10 knots	None
					AVERAGE	4.8	24.8		
	8:53	071105_02_9	814987.43 2696141.02	Down	5 10 15 20 25 30	10.5 15.0 7.1 35.0 11.0 22.0		Sunny, ~80 Degrees NE Wind 5-10 knots	None
					AVERAGE	16.8	8.0 NTUs		
	10:04	071105_04_1 (Background)	814982.98 2695576.6	Up	5 10 15 20 25 30	2.6 3.0 3.0 2.4 1.6 1.8	Below Permissible Turbidity Increase Limit	Sunny, ~80 Degrees NE Wind 5-10 knots	None
					AVERAGE	2.4	22.4		
	10:15	071105_04_9	815095.87 2696084.83	Down	5 10 15 20 25	5.7 5.5 4.8 5 8.5		Sunny, ~80 Degrees NE Wind 5-10 knots	None
					AVERAGE	5.9	(16.5 Below Limit)		
	10:46	071105_06_1 (Background)	815116.14 2695747.5	Up	5 10 15 20 25 30	2.3 3.0 6.0 6.5 6.5 3.5		Sunny, ~80 Degrees NE Wind 5-10 knots	None
					AVERAGE	4.6	24.6		
	10:54	071105_06_9	814997.22 2696092.99	Down	5 10 15 20	2.8 4.3 5 10		Sunny, ~80 Degrees NE Wind 5-10 knots	None
	High 12:04				AVERAGE	5.5	(19.1 Below Limit)		

Notes: An X in the vessel traffic column indicates that either a vessel had passed or there was a movement of spuds that may have had an effect on turbidity.



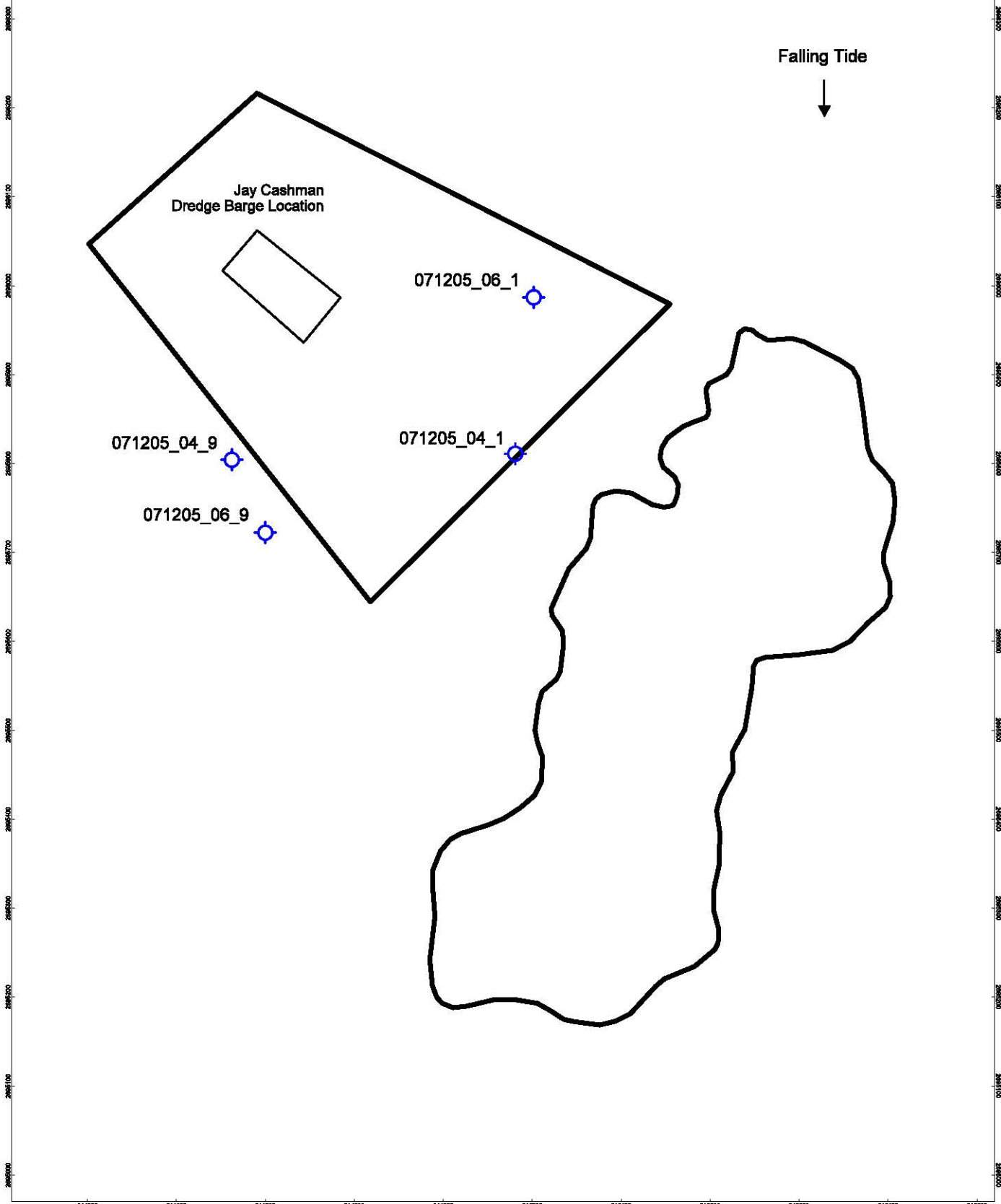
**07/11/05 Dredge Operations Water Quality
CAD Cell Area Water Quality Monitoring Locations**
Water Quality Stations
Apex Environmental, Inc.

7/12/2005
New Bedford Harbor Dredge Project - Phase II
Water Quality Monitoring - CAD Cell Excavation Area

Tide Time	Time	ID	Coordinates	Up/Down	Depth (ft.)	Ave. Turbidity	Permissible Turbidity	Weather Conditions	Vessel
High 12:44				Current		(NTUs)	Increase (NTUs)		Traffic
Falling Tide	15:22	071205_04_1 (Background)	814980.58 2695810.92	Up	5	1.8		Sunny, ~80 Degrees NE Wind 5-10 knots	None
					10	1.9			
					15	3.0			
					20	4.1			
					25	5.5			
					30	12.0			
					AVERAGE	4.7	24.7		
	15:30	071205_04_9	814662.38 2695804.14	Down	5	1.9		Sunny, ~80 Degrees NE Wind 5-10 knots	None
					10	2.6			
					15	4.9			
					20	4.8			
					25	5.4			
					30	3.5			
					AVERAGE	3.9	20.8 NTUs		
	15:52	071205_06_1 (Background)	815001.71 2695986.79	Up	5	2.0	Below Permissible	Sunny, ~80 Degrees NE Wind 5-10 knots	None
				10	2.8	Turbidity Increase Limit			
				15	2.1				
				20	3.0				
				25	11.0				
				30	13.5				
				AVERAGE	5.7	25.7			
15:58	071205_06_9	814699.98 2695722.2	Down	5	2		Sunny, ~80 Degrees NE Wind 5-10 knots	None	
				10	3.3				
				15	5.5				
				20	2.6				
				25	6.2				
				30	6				
Low 17:47				AVERAGE	4.3	(21.4 Below Limit)			

Notes: An X in the vessel traffic column indicates that either a vessel had passed or there was a movement of spuds that may have had an effect on turbidity.

814500 814850 814700 814900 814900 815000 815100 815200 815300 815400 815500

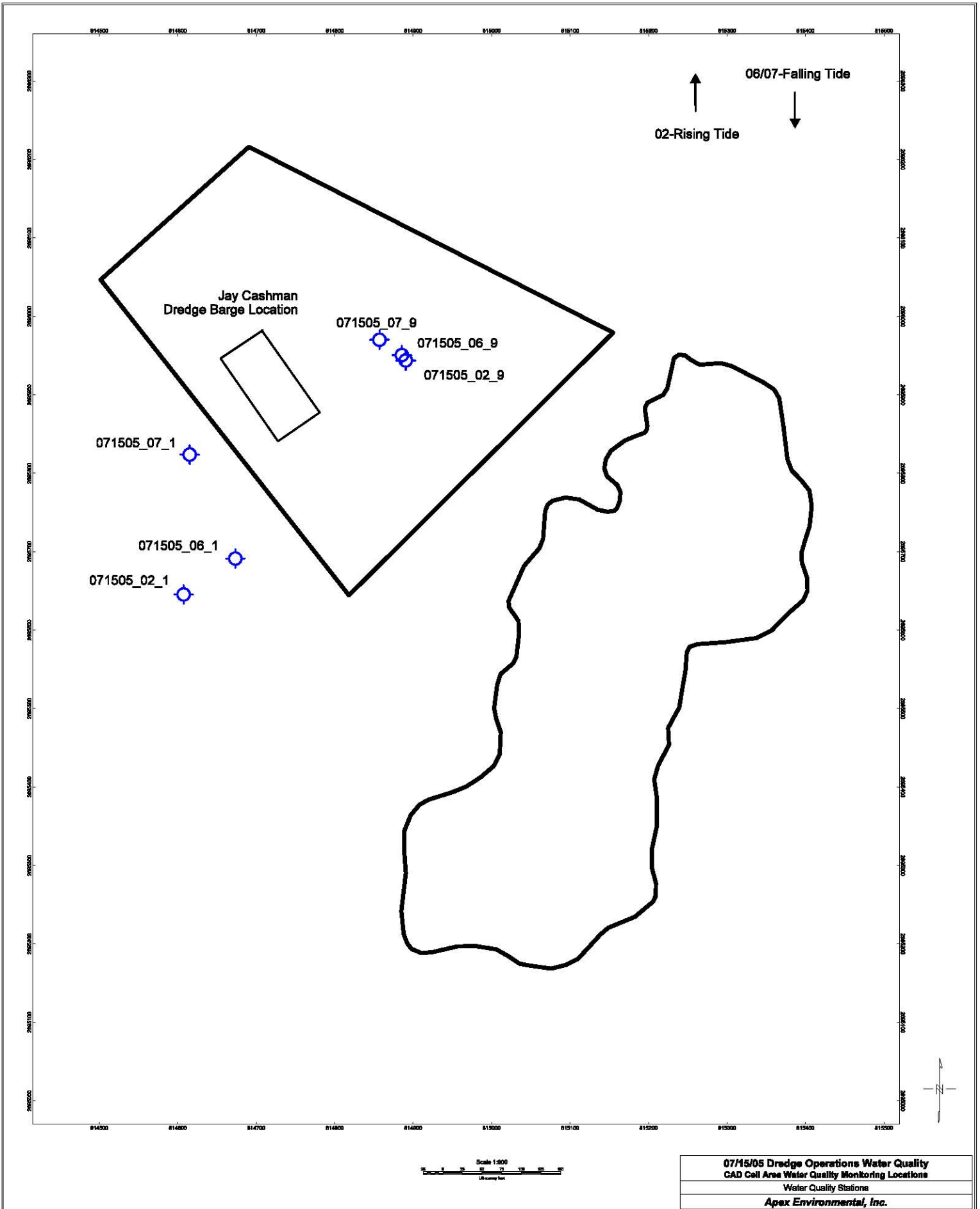


07/12/05 Dredge Operations Water Quality
CAD Cell Area Water Quality Monitoring Locations
 Water Quality Stations
Apex Environmental, Inc.

7/15/2005
New Bedford Harbor Dredge Project - Phase II
Water Quality Monitoring - CAD Cell Excavation Area

Tide Time	Time	ID	Coordinates	Up/Down Current	Depth (ft.)	Ave. Turbidity (NTUs)	Permissible Turbidity Increase (NTUs)	Weather Conditions	Vessel Traffic
Low 8:01									
Rising Tide	12:03	071505_02_1 (Background)	814607.4 2695645.46	Up	5	2.5		Cloudy, ~80 Degrees	None
					10	3.2		NE Wind 0-5 knots	
					15	3.2			
					20	3.0			
					25	2.0			
					30	3.5			
					AVERAGE	2.9	22.9		
	12:09	071505_02_9	814890.48 2695943.76	Down	5	3.0		Cloudy, ~80 Degrees	None
					10	2.3		NE Wind 0-5 knots	
					15	1.9			
				20	2.0				
				25	2.1				
				30	3.2				
High 15:08					AVERAGE	2.4	20.5 NTUs		
Falling Tide	17:18	071505_06_1 (Background)	814673.28 2695691.25	Up	5	2.8	Below Permissible	Sunny, ~85 Degrees	None
					10	3.6	Turbidity Increase Limit	NE Wind 0-5 knots	
					15	3.1			
					20	3.4			
					25	2.6			
					30	2.5			
					AVERAGE	3.0	23.0		
	17:23	071505_06_9	814885.59 2695950.67	Down	5	3.8		Sunny, ~85 Degrees	None
					10	6.3		NE Wind 0-5 knots	
					15	9.0			
				20	7.8				
				25	1.3				
				30	1.7				
				AVERAGE	5.0	(18.0 Below Limit)			
17:33	071505_07_1 (Background)	814615.08 2695823.84	Up	5	2.9		Sunny, ~85 Degrees	None	
				10	4.0		NE Wind 0-5 knots		
				15	4.2				
				20	4.6				
				25	5.0				
				30	3.8				
				AVERAGE	4.1	24.1			
17:38	071505_07_9	814856.96 2695970.18	Down	5	4.8		Sunny, ~85 Degrees	None	
				10	5.8		NE Wind 0-5 knots		
				15	6.4				
				20	11.0				
				25	10.0				
				30	14.0				
Low 21:18					AVERAGE	8.7	(15.4 Below Limit)		

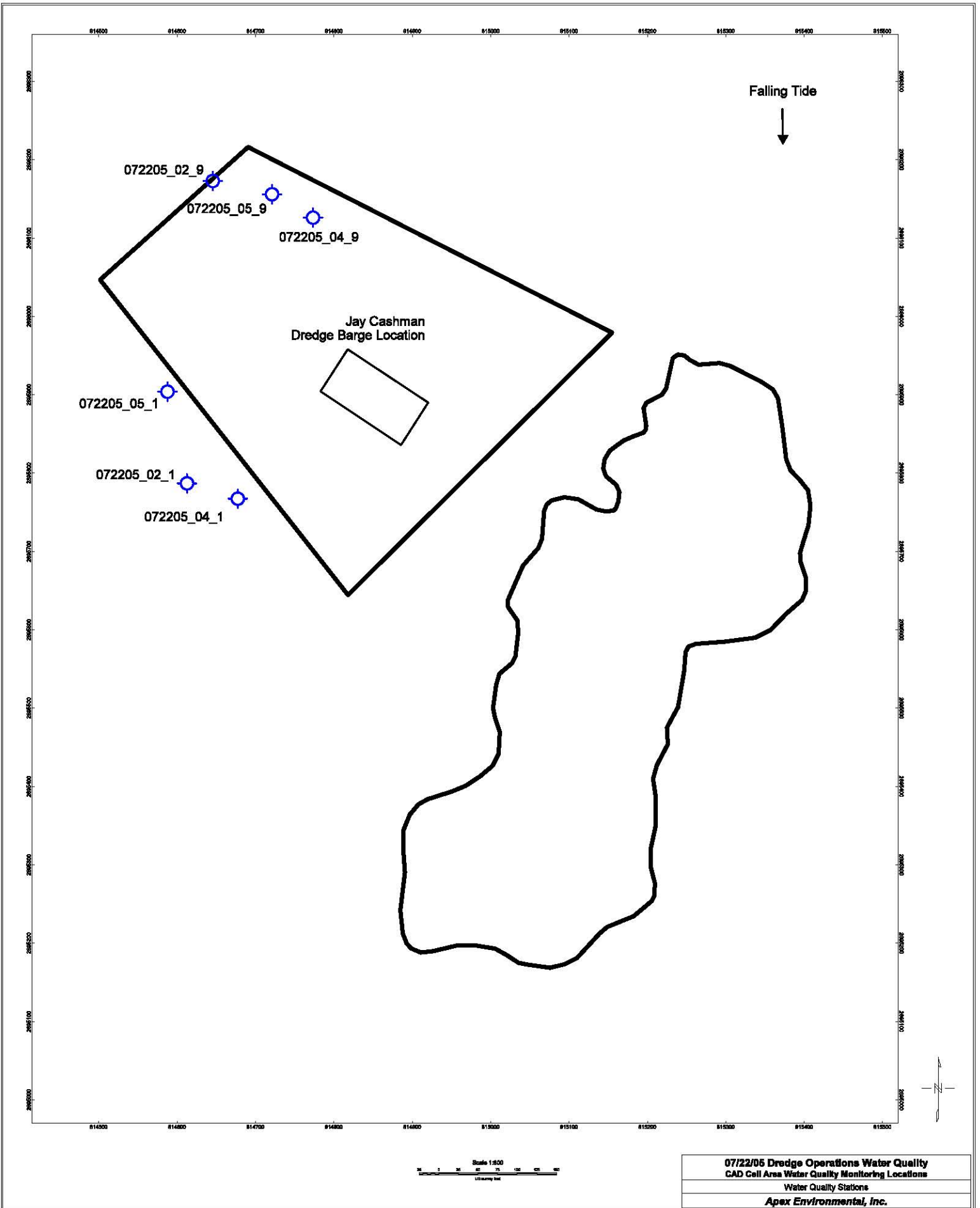
Notes: An X in the vessel traffic column indicates that either a vessel had passed or there was a movement of spuds that may have had an effect on turbidity.



7/22/2005
New Bedford Harbor Dredge Project - Phase II
Water Quality Monitoring - CAD Cell Excavation Area

Tide Time	Time	ID	Coordinates	Up/Down	Depth (ft.)	Ave. Turbidity	Permissible Turbidity	Weather Conditions	Vessel
High 9:13				Current		(NTUs)	Increase (NTUs)		Traffic
Falling Tide	10:10	072205_02_1	814612.57	Up	5	0.2		Sunny, ~80 Degrees	None
		(Background)	2695786.89		10	2.4		SE Wind 5-10 knots	
					15	2.6			
					20	2.6			
					25	2.7			
					30	2.6			
					AVERAGE	2.2	22.2		
	10:17	072205_02_9	814645.5	Down	5	1.1		Sunny, ~80 Degrees	None
			2696172.85		10	1.4		SE Wind 5-10 knots	
					15	2.0			
					20	2.6			
					25	2.2			
					30	8.0			
					AVERAGE	2.9	19.3 NTUs		
	12:43	072205_04_1	814677.39	Up	5	2.6	Below Permissible	Sunny, ~80 Degrees	None
		(Background)	2695767.28		10	2.7	Turbidity Increase Limit	SE Wind 5-10 knots	
					15	2.6			
					20	2.8			
					25	3.4			
					30	5.0			
				AVERAGE	3.2	23.2			
12:48	072205_04_9	814644.69	Down	5	5.2		Sunny, ~80 Degrees	None	
		2696093.75		10	9.5		SE Wind 5-10 knots		
				15	11.0				
				20	12.0				
				25	19.0				
				30	17.0				
				AVERAGE	12.3	(10.9 Below Limit)			
12:54	072205_05_1	814773.41	Up	5	2.8		Sunny, ~80 Degrees	None	
	(Background)	2696126.03		10	2.9		SE Wind 5-10 knots		
				15	2.6				
				20	2.7				
				25	2.6				
				30	2.8				
				AVERAGE	2.7	22.7			
12:57	072205_05_9	814808	Down	5	3.4		Sunny, ~80 Degrees	None	
		2605789.33		10	4.7		SE Wind 5-10 knots		
				15	10.5				
				20	7.4				
				25	16.0				
				30	19.0				
Low 14:47				AVERAGE	10.2	(12.6 Below Limit)			

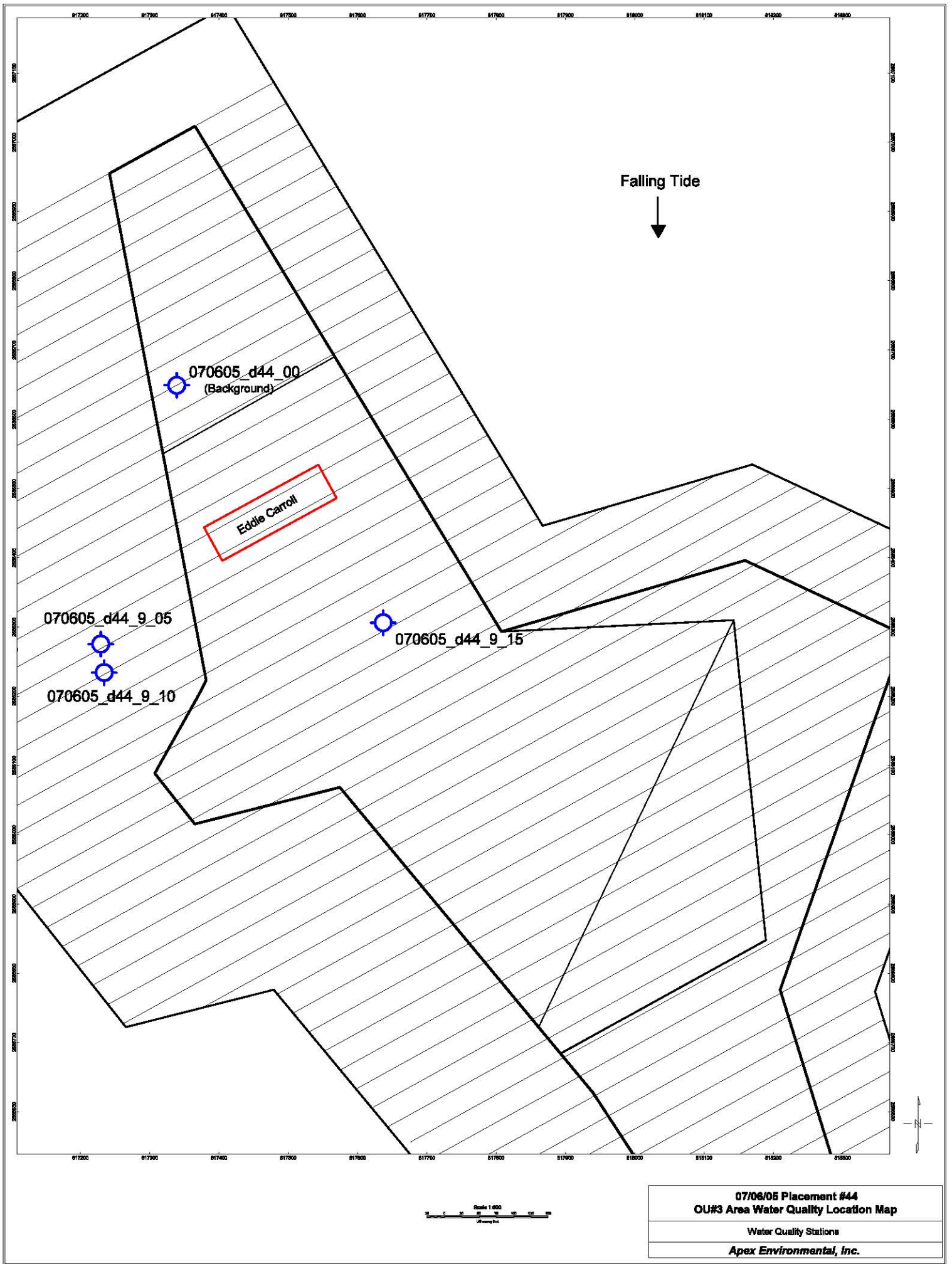
Notes: An X in the vessel traffic column indicates that either a vessel had passed or there was a movement of spuds that may have had an effect on turbidity.



7/6/2005
New Bedford Harbor Dredge Project - Phase II
Water Quality Monitoring - Placement Operations - OU#3 Cap Area

Tide Time	Time	ID	Coordinates	Up/Down	Depth (ft.)	Ave. Turbidity	Permissible Turbidity	Weather Conditions	Vessel
High 8:40				Current		(NTUs)	Increase (NTUs)		Traffic
Falling Tide	12:33	070605_d44_00	817338.98	Up	2	7.8		Cloudy, -80 Degrees	None
		(Background)	2686649.09		4	9.5		S Wind 1-5 Knots	
					6	11.5			
					7	9.5			
					AVERAGE	9.6	49.6		
	12:55	PLACEMENT 44	STARTED						
	13:00	070605_d44_9_05	817229.27	Down	2	2.9		Cloudy, -80 Degrees	None
			2686275.37		4	3.5		S Wind 1-5 Knots	
					6	3.1			
					8	2.8			
				AVERAGE	3.1	46.5 NTUs			
13:06	070605_d44_9_10	817234.23	Down	2	13.0	Below Permissible	Cloudy, -80 Degrees	None	
		2686234.23		4	12.5	Turbidity Increase Limit	S Wind 1-5 Knots		
				6	10.5				
				8	16.3				
				AVERAGE	13.1	(36.5 Below Limit)			
13:12	070605_d44_9_15	817636.99	Down	2	8.5		Cloudy, -80 Degrees	None	
		2686306.24		4	6.8		S Wind 1-5 Knots		
				6	7.5				
				8	10.0				
Low 13:40				AVERAGE	8.2	(41.4 Below Limit)			

Notes: An X in the vessel traffic column indicates that either a vessel had passed or there was a movement of spuds that may have had an effect on turbidity.



Falling Tide
↓

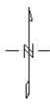
070605_d44_00
(Background)

Eddie Carroll

070605_d44_9_05

070605_d44_9_15

070605_d44_9_10



**07/06/05 Placement #44
OU#3 Area Water Quality Location Map**

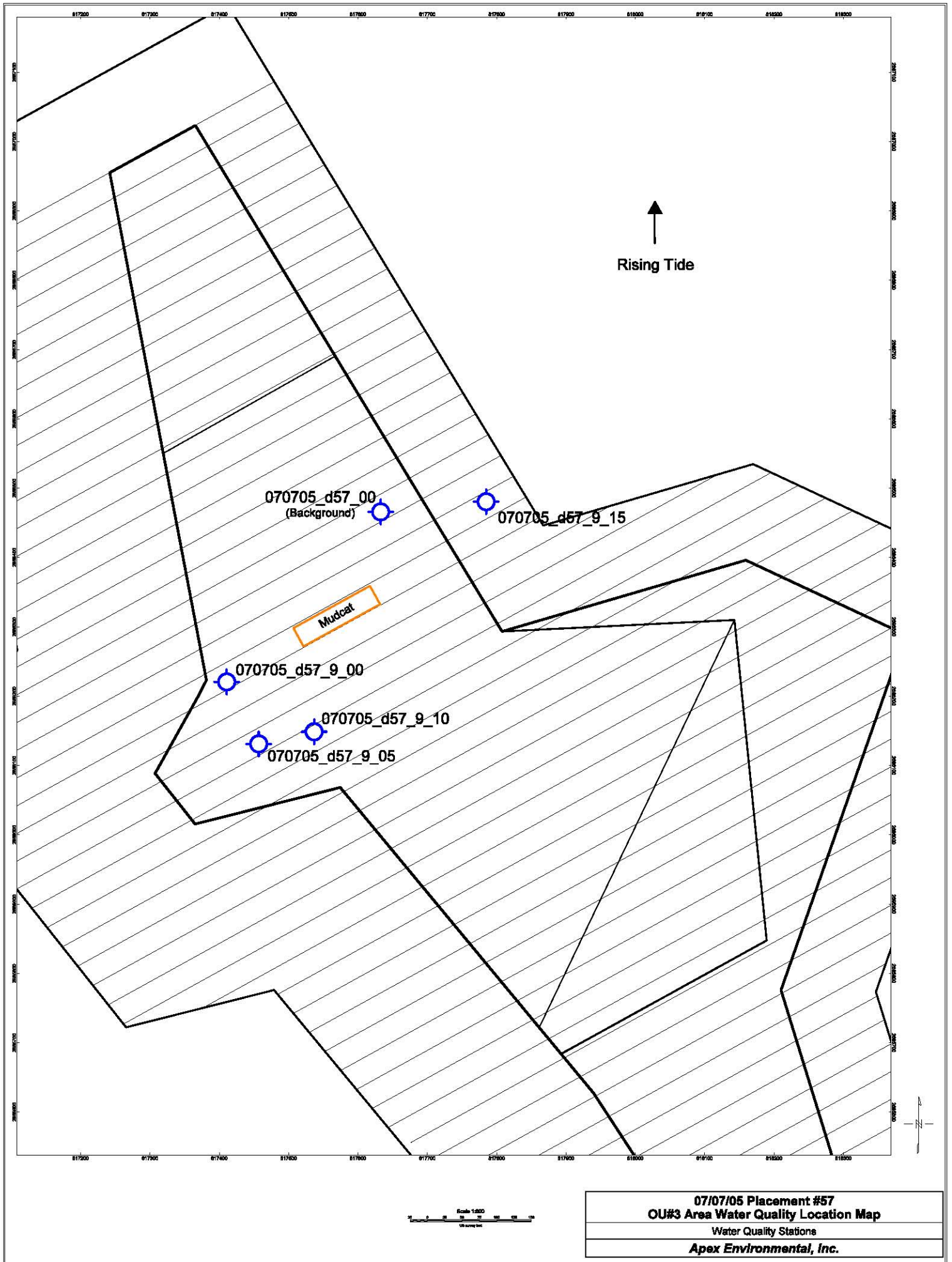
Water Quality Stations

Apex Environmental, Inc.

7/7/2005
New Bedford Harbor Dredge Project - Phase II
Water Quality Monitoring - Placement Operations - OU#3 Cap Area

Tide Time	Time	ID	Coordinates	Up/Down	Depth (ft.)	Ave. Turbidity (NTUs)	Permissible Turbidity Increase (NTUs)	Weather Conditions	Vessel Traffic
Low 14:59				Current					
Rising Tide	15:54	070705_d57_00	817632.68	Down	2	6.0		Cloudy, ~70 Degrees	None
		(Background)	2686465.82		4	7.0		N Wind 5-15 Knots	
					6	9.0			
					8	10.0			
					AVERAGE	8.0	48.0		
	15:59	PLACEMENT 57	STARTED						
	16:00	070705_d57_9_00	817410.56	Down	2	7.0		Cloudy, ~70 Degrees	None
			2686220.56		4	9.0		N Wind 5-15 Knots	
					6	13.0			
					8	16.5			
				AVERAGE	11.4	36.6 NTUs			
16:05	070705_d57_9_05	817456.77	Up	2	11.0	Below Permissible	Cloudy, ~70 Degrees	None	
		2686131.07		4	12.0	Turbidity Increase Limit	N Wind 5-15 Knots		
				6	12.0				
				8	18.0				
				AVERAGE	13.3	(34.7 Below Limit)			
16:08	070705_d57_9_10	817536.68	Up	2	12.0		Cloudy, ~70 Degrees	None	
		2686148.56		4	14.0		N Wind 5-15 Knots		
				6	16.0				
				8	17.0				
				AVERAGE	14.8	(33.2 Below Limit)			
16:15	070705_d57_9_15	817784.8	Up	2	2.0		Cloudy, ~70 Degrees	None	
		2686480.46		4	2.1		N Wind 5-15 Knots		
				6	2.2				
				8	2.8				
High 21:36				AVERAGE	2.3	(45.7 Below Limit)			

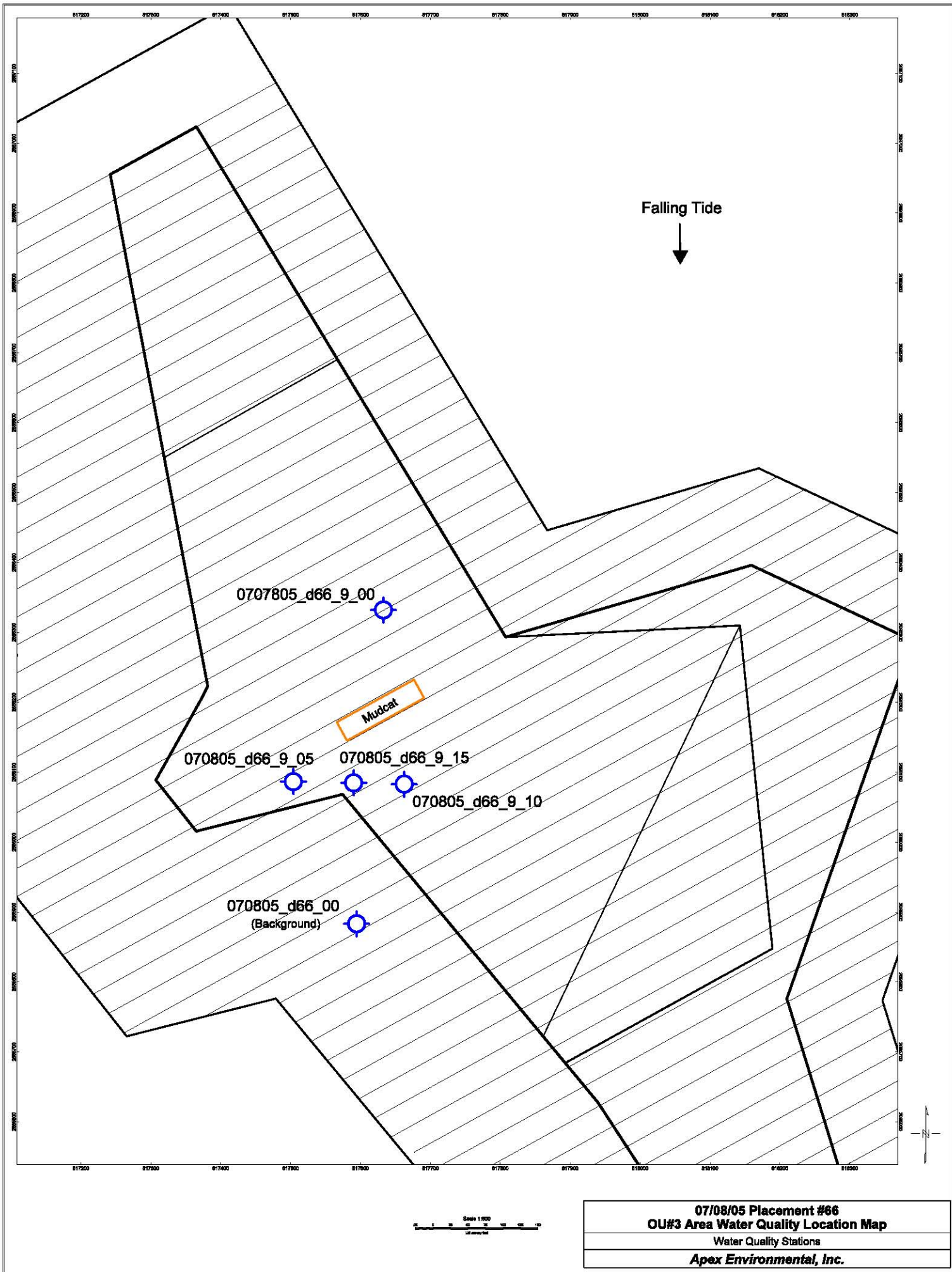
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7/8/2005
New Bedford Harbor Dredge Project - Phase II
Water Quality Monitoring - Placement Operations - OU#3 Cap Area

Tide Time	Time	ID	Coordinates	Up/Down	Depth (ft.)	Ave. Turbidity (NTUs)	Permissible Turbidity Increase (NTUs)	Weather Conditions	Vessel Traffic
High 10:02				Current					
Falling Tide	9:33	070805_d66_00	817594.42	Down	2	4.0		Cloudy, ~65 Degrees	None
		(Background)	2685883.24		4	4.2		E,SE Wind 5-10 Knots	
					6	4.5			
					8	4.5			
					10	4.4			
					AVERAGE	4.3	44.3		
	9:38	PLACEMENT 66	STARTED					Cloudy, ~65 Degrees	
	9:39	0707805_d66_9_00	817632.84	Up	2	2.3		E,SE Wind 5-10 Knots	None
			2686332.16		4	2.6			
					6	2.6			
					8	2.7			
					10	2.5			
					AVERAGE	2.5	41.8 NTUs		
	9:44	070805_d66_9_05	817503.9	Down	2	5.0	Below Permissible	Cloudy, ~65 Degrees	None
			2686086.51		4	4.4	Turbidity Increase Limit	E,SE Wind 5-10 Knots	
					6	5.0			
					8	4.5			
					AVERAGE	4.7	(37.1 Below Limit)		
	9:49	070805_d66_9_10	817662.58	Down	2	2.6		Cloudy, ~65 Degrees	None
			2686082.98		4	2.4		E,SE Wind 5-10 Knots	
				6	2.9				
				8	2.7				
				10	2.7				
				AVERAGE	2.7	(34.4 Below Limit)			
9:53	070805_d66_9_15	817590.14	Down	2	4.2		Cloudy, ~65 Degrees	None	
		2686084.76		4	4.4		E,SE Wind 5-10 Knots		
				6	4.5				
				8	4.7				
				10	4.6				
Low 15:13					AVERAGE	4.5	(29.9 Below Limit)		

Notes: An X in the vessel traffic column indicates that either a vessel had passed or there was a movement of spuds that may have had an effect on turbidity.



Falling Tide
↓

0707805_d66_9_00

Mudcat

070805_d66_9_05

070805_d66_9_15

070805_d66_9_10

070805_d66_00
(Background)

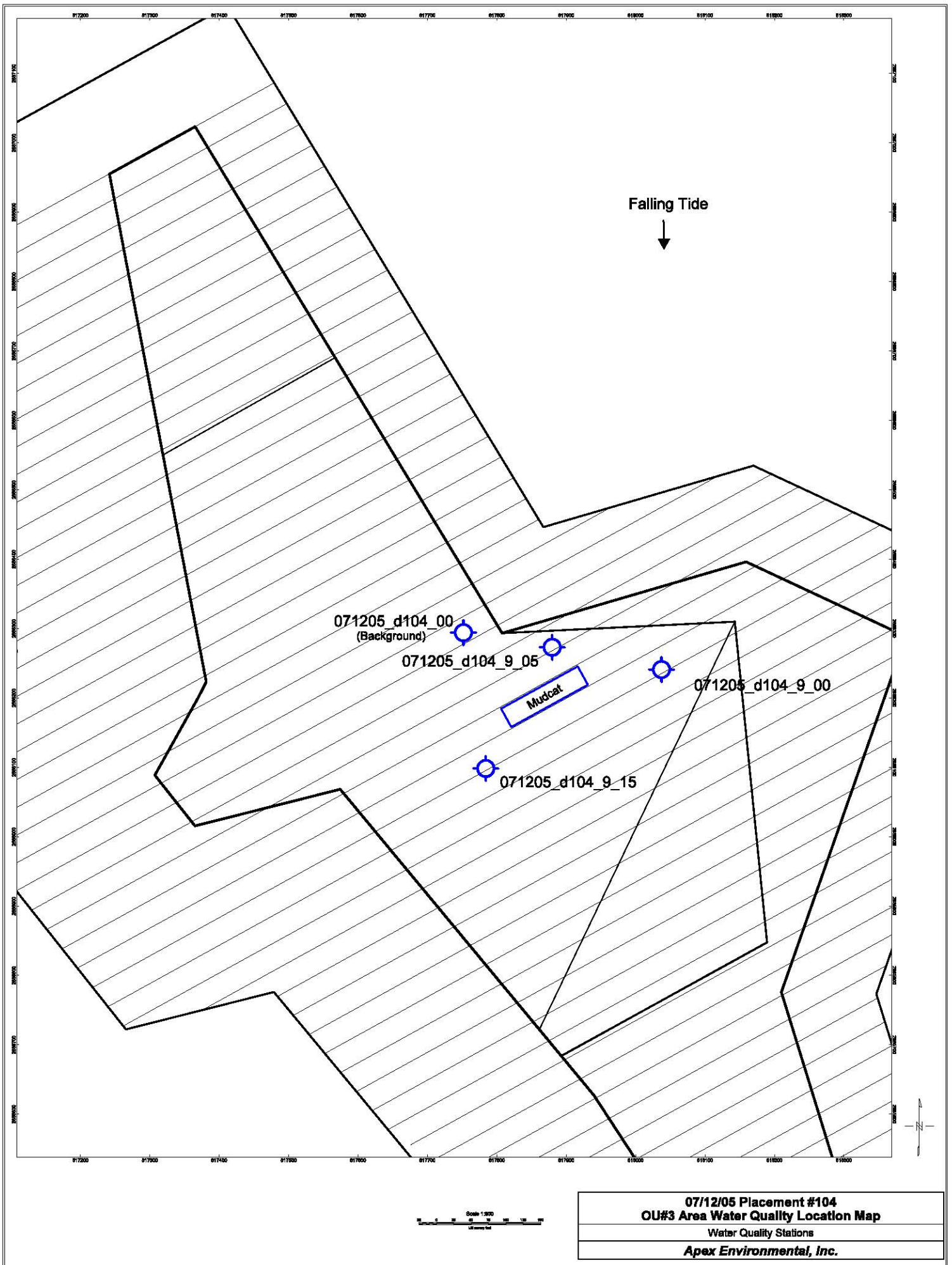
Scale 1:600
0 10 20 30 40 50
Feet

07/08/05 Placement #66
OU#3 Area Water Quality Location Map
Water Quality Stations
Apex Environmental, Inc.

7/12/2005
New Bedford Harbor Dredge Project - Phase II
Water Quality Monitoring - Placement Operations - OU#3 Cap Area

Tide Time	Time	ID	Coordinates	Up/Down	Depth (ft.)	Ave. Turbidity	Permissible Turbidity	Weather Conditions	Vessel
High 12:44				Current		(NTUs)	Increase (NTUs)		Traffic
Falling Tide	16:10	071205_d104_00	818012.77	Up	2	5.0		Cloudy, ~65 Degrees	None
		(Background)	2696359.72		4	4.0		E,SE Wind 5-10 Knots	
					6	4.4			
					8	6.0			
					AVERAGE	4.9	44.9		
	16:15	PLACEMENT 104	STARTED					Cloudy, ~65 Degrees	
	16:20	071205_d104_9_05	817879.82	Up	2	37.0		E,SE Wind 5-10 Knots	None
			2686272.97		4	36.0			
					6	34.0			
					8	40.0			
				AVERAGE	36.8	8.1 NTUs			
16:25	071205_d104_9_10	817751.93	Down	2	12.0	Below Permissible	Cloudy, ~65 Degrees	None	
		2686294.06		4	11.8	Turbidity Increase Limit	E,SE Wind 5-10 Knots		
				6	18.0				
				8	4.0				
				AVERAGE	11.5	(33.4 Below Limit)			
16:28	071205_d104_9_15	827729.61	Down	2	12.0		Cloudy, ~65 Degrees	None	
		2686205.92		4	14.0		E,SE Wind 5-10 Knots		
				6	20.0				
				8	19.5				
				AVERAGE	16.4	(28.5 Below Limit)			
Low 17:22									

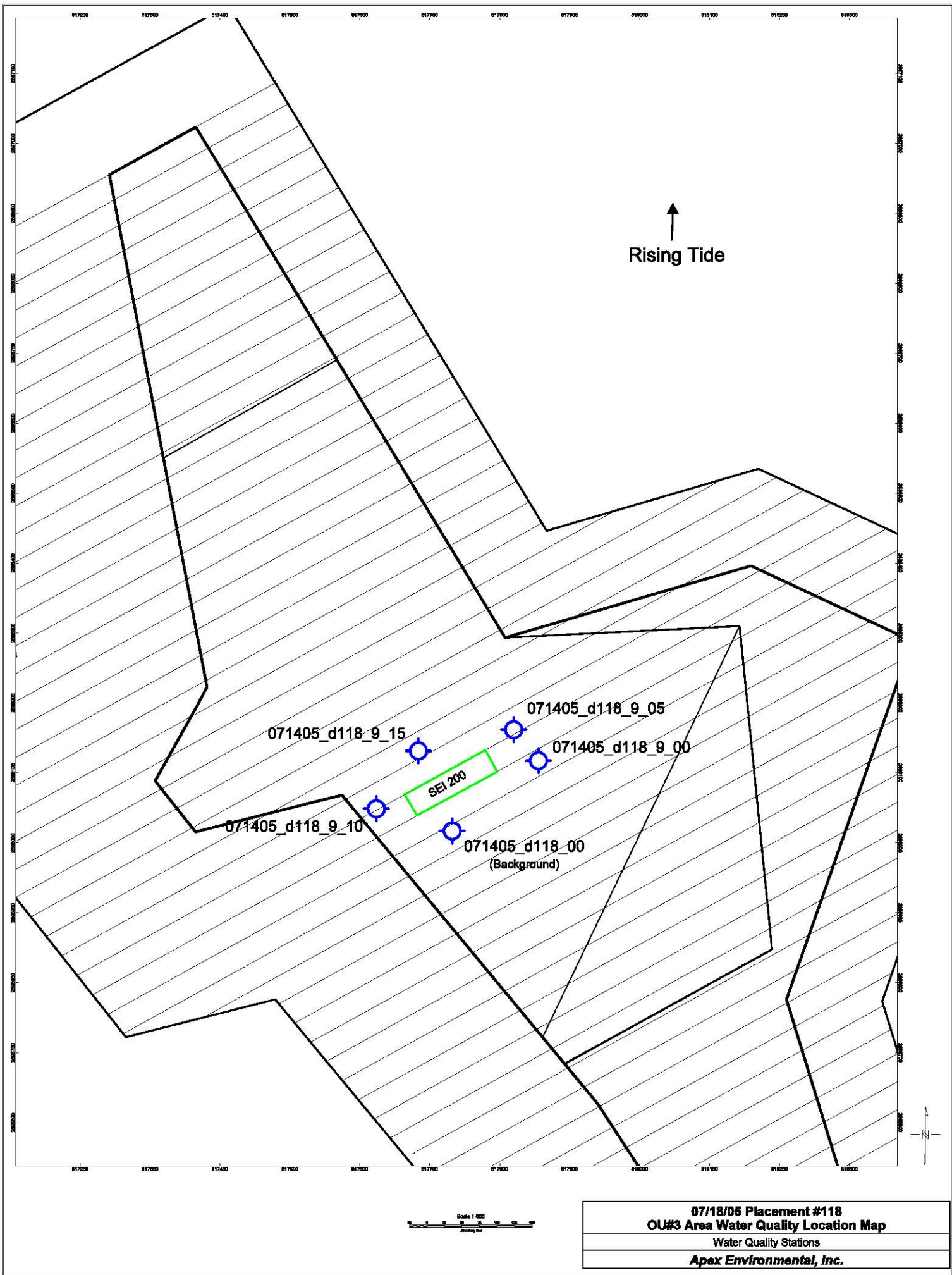
Notes: An X in the vessel traffic column indicates that either a vessel had passed or there was a movement of spuds that may have had an effect on turbidity.



7/14/2005
New Bedford Harbor Dredge Project - Phase II
Water Quality Monitoring - Placement Operations - OU#3 Cap Area

Tide Time	Time	ID	Coordinates	Up/Down	Depth (ft.)	Ave. Turbidity	Permissible Turbidity	Weather Conditions	Vessel
Low 7:08				Current		(NTUs)	Increase (NTUs)		Traffic
Rising Tide	9:20	071405_d118_00	817819.92	Up	2	1.3		Cloudy, ~75 Degrees	None
		(Background)	2686161.75		4	1.5		SW Wind 5-10 Knots	
					6	1.6			
					8	1.8			
					AVERAGE	1.6	41.6		
	9:42	PLACEMENT 118	STARTED					Cloudy, ~75 Degrees	
	9:42	071405_d118_9_00	817855.33	Down	2	1.2		SW Wind 5-10 Knots	None
			2686117.46		4	2.5			
					6	4.2			
					8	5.0			
					AVERAGE	3.2	38.3 NTUs		
	9:46	071405_d118_9_05	817732.02	Down	2	1.4	Below Permissible	Cloudy, ~75 Degrees	None
			2686016.99		4	2.5	Turbidity Increase Limit	SW Wind 5-10 Knots	
					6	2.2			
					8	2.1			
				AVERAGE	2.1	(39.5 Below Limit)			
9:51	071405_d118_9_10	817692.5	Down	2	1.8		Cloudy, ~75 Degrees	None	
		2685808.39		4	2.5		SW Wind 5-10 Knots		
				6	2.2				
				8	10.0				
				AVERAGE	4.1	(37.4 Below Limit)			
9:56	071405_d118_9_15	818008.59	Down	2	12.0		Cloudy, ~75 Degrees	Yes	
		2685744.23		4	14.0		SW Wind 5-10 Knots		
				6	10.0				
				8	11.0				
High 14:11				AVERAGE	11.8	(29.8 Below Limit)			

Notes: An X in the vessel traffic column indicates that either a vessel had passed or there was a movement of spuds that may have had an effect on turbidity.



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Rising Tide

071405_d118_9_15

071405_d118_9_05

071405_d118_9_00

071405_d118_9_10

SEI 200

071405_d118_00
(Background)

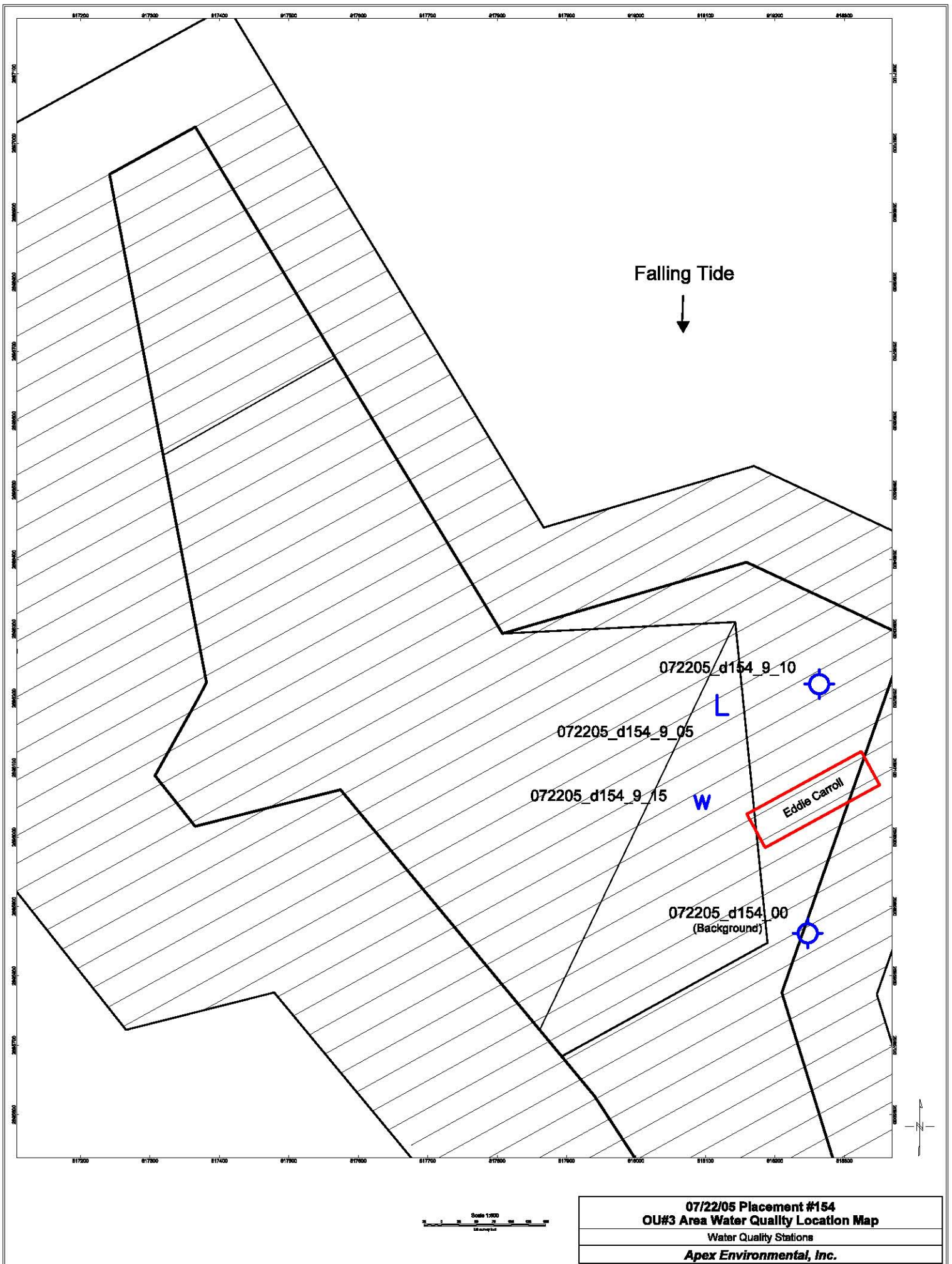
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Feet

07/18/05 Placement #118
OU#3 Area Water Quality Location Map
Water Quality Stations
Apex Environmental, Inc.

7/22/2005
New Bedford Harbor Dredge Project - Phase II
Water Quality Monitoring - Placement Operations - OU#3 Cap Area

Tide Time	Time	ID	Coordinates	Up/Down	Depth (ft.)	Ave. Turbidity	Permissible Turbidity	Weather Conditions	Vessel	
High 9:13				Current		(NTUs)	Increase (NTUs)		Traffic	
Falling Tide	11:23	071405_d154_00	818247.33	Down	2	1.2		Sunny, -80 Degrees	None	
		(Background)	2685861.26		4	1.0		SE Wind 5-10 Knots		
					6	1.1				
					8	1.0				
					10	1.0				
					AVERAGE	1.1	41.1			
	12:00	PLACEMENT 154	STARTED					Sunny, -80 Degrees		
	12:03	071405_d154_9_05	818111.32	Up	2	14.0		SE Wind 5-10 Knots	Yes	
			2686176.54		4	22.0				
					6	24.0				
				8	20.0					
				10	12.0					
				AVERAGE	18.4	22.7 NTUs				
12:08	071405_d154_9_10	818263.87	Up	2	1.0	Below Permissible	Sunny, -80 Degrees	None		
		2686220.39		4	1.5	Turbidity Increase Limit	SE Wind 5-10 Knots			
				6	1.2					
				8	3.9					
				10	5.0					
				12	13.0					
				AVERAGE	4.3	(36.8 Below Limit)				
12:15	071405_d154_9_15	818080.84	Up	2	1.3		Sunny, -80 Degrees	None		
		2686040.82		4	15.0		SE Wind 5-10 Knots			
				6	10.0					
				8	31.0					
				10	18.0					
				12	20.0					
Low 14:47				AVERAGE	15.9	(25.2 Below Limit)				

Notes: An X in the vessel traffic column indicates that either a vessel had passed or there was a movement of spuds that may have had an effect on turbidity.



Falling Tide



072205_d154_9_10

L

072205_d154_9_05

072205_d154_9_15

W

072205_d154_00
(Background)

Eddie Carroll



07/22/05 Placement #154
OU#3 Area Water Quality Location Map
Water Quality Stations
Apex Environmental, Inc.