

**Appendix A**  
**Field Sample Data**

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**Pierce Mill Cove**  
**Pre-dredge Sediment Cores**

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Station ID: <u>VV47</u>	Time On Station: <u>0914</u>	All measurements are ±0.1 feet	
Core Sample ID: <u>S-08A-VV47-00-15</u>	Northing (NAD 83): <u>2701774.17</u>	Water Depth (A): <u>3.6</u>	① <u>3.6</u>
Logged by: <u>MW/AM</u>	Easting (NAD 83): <u>815199.91</u>	Length of push core assembly (B): <u>6.0</u>	① <u>6.0</u>
Collection Mechanism: <u>Push-Core</u>	GPS Accuracy: <u>2.37</u>	Water surface to top of handle (C): <u>1.8</u>	① <u>1.8</u>
Date: <u>5/30/08</u>	Predicted Tide (ft): <u>—</u>	Length of core (from bottom) (D): <u>1.5</u>	① <u>1.5</u>
	Time of Collection: ① <u>0922 0926 0931 0933</u>	Surveyed elevation (NVGD 29) (E): <u>—</u>	
	Time Depart Station: <u>1600</u>	Water surface from surveyed elevation (F): <u>-1.4</u>	

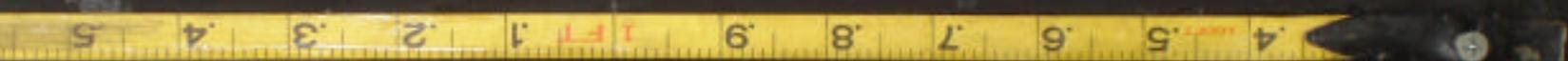
**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD): $E - F$	<u>-1.4</u>
(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$	<u>-6.6</u>
(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$	<u>-5.8</u>
(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$	<u>-5.1</u>
(I <sub>2</sub> ) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$	<u>-5.0</u>
(Note if I ≠ I <sub>2</sub> within ± 1.0 feet, discard and resample)	

Elevation (NVGD) (i.e. Bottom = H)	Lithology - include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.5		Soft Sand	Black gray	loose	fine to med			Heavy streaking
0.8		Clay sand	olive	firm	fine to med			
0.0								

File ID of digital photograph(s):

Comments:  
 ① 1st Attempt 1/6  
 2nd Attempt 1/6  
 3rd Attempt 1/6



S-08A-VV47-00-15

5/30/08

Station ID: <u>VV47</u>	Time On Station: <u>0914</u>	All measurements are ±0.1 feet	
Core Sample ID: <u>S-08A-VV47-00 22-PW</u>	Northing (NAD 83): <u>2701774.17</u>	Water Depth (A): <u>3.5</u>	
Logged by: <u>MW/AM</u>	Easting (NAD 83): <u>515199.91</u>	Length of push core assembly (B): <u>2.0</u>	
Collection Mechanism: <u>Push-Core</u>	GPS Accuracy: <u>2.37</u>	Water surface to top of handle (C): <u>1.2</u>	
Date: <u>5/30/08</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>2.2</u>	
	Time of Collection: <u>0945</u>	Surveyed elevation (NVGD 29) (E): _____	
	Time Depart Station: <u>1000</u>	Water surface from surveyed elevation (F): <u>-1.4</u>	

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD): $E - F$	<u>-1.4</u>
(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$	<u>-7.2</u>
(z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$	<u>-5.8</u>
(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$	<u>-5.0</u>
(I <sub>2</sub> ) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$	<u>-4.9</u>
(Note if I ≠ I <sub>2</sub> within ± 1.0 feet, discard and resample)	<u>—</u>

Elevation (NVGD) (I.e. Bottom = 0)	Lithology - include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.2		Silt sand shells	gray black	loose				marbled silt/sand/shells ↓ streaking
1.4		clay some sand shells	olive gray	firm				
0.0								

File ID of digital photograph(s):

Comments:



S-08A-VV47-00-22-DUP

5/30/08

<b>Battelle</b> <i>The Business of Innovation</i>	Project Name: <b>New Bedford Harbor Environmental Monitoring</b>	Project #: <b>G606422</b>
	Location: <b>New Bedford, MA</b>	Vessel: <b>R/V Gale Force</b>
	Client: <b>USACE NAE</b>	Chief Scientist: <b>Mike Walsh</b>

Station ID: <u>RR 42</u>	Time On Station: <u>1006</u>	<b>All measurements are ±0.1 feet</b>
Core Sample ID: <u>S-08A-RR42-00-19</u>	Northing (NAD 83): <u>2701887.10</u>	Water Depth (A): <u>2.2</u>
Logged by: <u>MW/AM</u>	Easting (NAD 83): <u>815058.07</u>	Length of push core assembly (B): <u>7.0</u>
Collection Mechanism: <u>Push-Core</u>	GPS Accuracy: <u>2.08</u>	Water surface to top of handle (C): <u>2.8</u>
Date: <u>5/30/08</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>1.9</u>
	Time of Collection: <u>1006</u>	Surveyed elevation (NVGD 29) (E): _____
	Time Depart Station: <u>1016</u>	Water surface from surveyed elevation (F): <u>-1.4</u>

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD): $E - F$	<u>-1.4</u>
(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$	<u>-5.6</u>
(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$	<u>-4.6</u>
(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$	<u>-3.7</u>
(I <sub>2</sub> ) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$	<u>-3.6</u>
(Note if I ≠ I <sub>2</sub> within ± 1.0 feet, discard and resample)	

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.9		Silt sand	gray black	loose	fine to med			Marbled silt/sand over silt
1.0		Clay sand sand	olive gray	firm	fine to med			Clay ↓ streaking
0.0								

File ID of digital photograph(s): \_\_\_\_\_

Comments: \_\_\_\_\_



S-08A-RR42-00-19

5/30/08

<b>Battelle</b> <i>The Business of Innovation</i>		Project Name: <b>New Bedford Harbor Environmental Monitoring</b>		Project #: <b>G606422</b>	
Location: <b>New Bedford, MA</b>		Client: <b>USACE NAE</b>		Vessel: <b>R/V Gale Force</b>	
Station ID: <b>AAA32</b>		Time On Station: <b>1026</b>		All measurements are $\pm 0.1$ feet	
Core Sample ID: <b>S-08A-AAA32-00-15</b>		Northing (NAD 83): <b>2702149.76</b>		Water Depth (A): <b>3.4</b>	
Logged by: <b>MW/AM</b>		Easting (NAD 83): <b>815326.76</b>		Length of push core assembly (B): <b>6.7</b>	
Collection Mechanism: <b>Push-Core</b>		GPS Accuracy: <b>2.4</b>		Water surface to top of handle (C): <b>1.5</b>	
Date: <b>5/30/08</b>		Predicted Tide (ft):		Length of core (from bottom) (D): <b>1.5</b>	
		Time of Collection: <b>1032</b>		Surveyed elevation (NVGD 29) (E):	
		Time Depart Station: <b>1034</b>		Water surface from surveyed elevation (F): <b>-1.2</b>	

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD): $E - F$	<b>-1.2</b>
(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$	<b>-6.4</b>
(z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$	<b>-5.7</b>
(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$	<b>-4.9</b>
(I <sub>2</sub> ) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$	<b>-4.6</b>
(Note if I $\neq$ I <sub>2</sub> within $\pm 1.0$ feet, discard and resample)	

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.5		Silt sand shells	Black	loose	fine to large			
0.7		Sand shells clay silt	olive gray	loose	fine to large			
0.0								

File ID of digital photograph(s):

Comments:



S-08A-AAA32-00-15

5/30/08

Station ID: <u>5528</u>	Time On Station: <u>1039</u>	All measurements are $\pm 0.1$ feet	
Core Sample ID: <u>S-08A-5528-00-14</u>	Northing (NAD 83): <u>2702249.43</u>	Water Depth (A): <u>2.1</u>	
Logged by: <u>MW/AM</u>	Easting (NAD 83): <u>815125.35</u>	Length of push core assembly (B): <u>7.0</u>	
Collection Mechanism: <u>Push-Core</u>	GPS Accuracy: <u>4.14</u>	Water surface to top of handle (C): <u>0.34 3.4</u>	
Date: <u>5/30/08</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>1.4</u>	
	Time of Collection: <u>1047 1057</u>	Surveyed elevation (NVGD 29) (E): _____	
	Time Depart Station: <u>1107</u>	Water surface from surveyed elevation (F): <u>-1.2</u>	

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD): $E - F$	<u>-1.2</u>
(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$	<u>-4.8</u>
(z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$	<u>-4.2</u>
(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$	<u>-3.4</u>
(I <sub>2</sub> ) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$	<u>-3.3</u>
(Note if I $\neq$ I <sub>2</sub> within $\pm 1.0$ feet, discard and resample)	<u>—</u>

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Includes USCS code	Type	Color	Consistency	Maximum particle size	Color	Sample IDs	Comments
1.4		Sand Silt	Dark gray	loose	Fine to med			Sand/shells well mixed throughout
1.1		Silt sand	Black	loose	Fine to large			
0.6		Sand clay shells	olive gray	loose	Fine to large			
0.0								

File ID of digital photograph(s):

Comments:

① 1<sup>st</sup> Attempt, N/G



S-08A-SS28-00-14

5/30/08

<b>Battelle</b> <i>The Business of Innovation</i>		Project Name: <b>New Bedford Harbor Environmental Monitoring</b>		Project #: <b>G606422</b>	
Location: <b>New Bedford, MA</b>		Client: <b>USACE NAE</b>		Vessel: <b>R/V Gale Force</b>	
Station ID: <b>AAA22</b>		Time On Station: <b>1120</b>		All measurements are $\pm 0.1$ feet	
Core Sample ID: <b>S-08A-AAA22-00-24</b>		Northing (NAD 83): <b>2702399.18</b>		Water Depth (A): <b>3.3</b>	
Logged by: <b>MW/AM</b>		Easting (NAD 83): <b>815374.55</b>		Length of push core assembly (B): <b>7.0</b>	
Collection Mechanism: <b>Push-Core</b>		GPS Accuracy: <b>2.49</b>		Water surface to top of handle (C): <b>1.3</b>	
Date: <b>5/30/08</b>		Predicted Tide (ft):		Length of core (from bottom) (D): <b>2.4</b>	
		Time of Collection: <b>1122</b>		Surveyed elevation (NVGD 29) (E):	
		Time Depart Station: <b>1128</b>		Water surface from surveyed elevation (F): <b>-1.2</b>	

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD): $E - F$	<u>-1.2</u>
(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$	<u>-6.9</u>
(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$	<u>-6.2</u>
(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$	<u>-4.5</u>
(I <sub>2</sub> ) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$	<u>-4.5</u>
(Note if I $\neq$ I <sub>2</sub> within $\pm 1.0$ feet, discard and resample)	<u>—</u>

Elevation (NVGD) (i.e. Bottom = 0)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.4		Silt	Black	loose	fine to med			Sand mixed throughout Blurred transition
1.3		clay silt	gray black	firm	fine			
0.7		clay	olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:



S-08A-AAAA-00-24

5/30/08

Station ID: <u>HH30</u>	Time On Station: <u>1134</u>	<b>All measurements are ±0.1 feet</b>
Core Sample ID: <u>S-084-HH30-00-19</u>	Northing (NAD 83): <u>2702186.76</u>	Water Depth (A): <u>2.3</u>
Logged by: <u>MW/Am</u>	Easting (NAD 83): <u>814849.38</u>	Length of push core assembly (B): <u>7.0</u>
Collection Mechanism: <u>Push-Core</u>	GPS Accuracy: <u>1.78</u>	Water surface to top of handle (C): <u>2.5</u>
Date: <u>5/30/08</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>1.9</u>
	Time of Collection: <u>1142</u>	Surveyed elevation (NVGD 29) (E): _____
	Time Depart Station: <u>1155</u>	Water surface from surveyed elevation (F): <u>-0.9</u>

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD): $E - F$	<u>-0.9</u>
(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$	<u>-5.4</u>
(z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$	<u>-4.1</u>
(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$	<u>-3.5</u>
(I <sub>2</sub> ) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$	<u>-3.2</u>
(Note if I ≠ I <sub>2</sub> within ± 1.0 feet, discard and resample)	<u>—</u>

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.9		Silt sand	Black	loose	fine			Trace Sand Throughout
1.3		Clay shells sand	olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:



S-08A-HH30-00-19

5/30/08

Station ID:	<i>HH36</i>	Time On Station:	<i>1201</i>	All measurements are $\pm 0.1$ feet	
Core Sample ID:	<i>S-08A-HH36-00-22</i>	Northing (NAD 83):	<i>2702049.74</i>	Water Depth (A):	<i>2.1</i>
Logged by:	<i>MW/Am</i>	Easting (NAD 83):	<i>814850.42</i>	Length of push core assembly (B):	<i>5.6</i>
Collection Mechanism:	<i>Push-Core</i>	GPS Accuracy:	<i>2.39</i>	Water surface to top of handle (C):	<i>1.1</i>
Date:	<i>5/30/08</i>	Predicted Tide (ft):		Length of core (from bottom) (D):	<i>2.2</i>
		Time of Collection:	<i>1203</i>	Surveyed elevation (NVGD 29) (E):	
		Time Depart Station:	<i>1212</i>	Water surface from surveyed elevation (F):	<i>-0.8</i>

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD): $E - F$	<i>-0.8</i>
(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$	<i>-5.3</i>
(z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$	<i>-4.2</i>
(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$	<i>-3.1</i>
(I <sub>2</sub> ) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$	<i>-2.9</i>
(Note if I $\neq$ I <sub>2</sub> within $\pm 1.0$ feet, discard and resample)	<i>-</i>

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
<i>2.2</i>		<i>silt</i>	<i>Black</i>	<i>loose</i>	<i>fine</i>			
<i>1.4</i>		<i>clay/silt</i>	<i>gray</i>	<i>firm</i>	<i>fine</i>			<i>stagnant Transition</i>
<i>1.1</i>		<i>Clay some shells</i>	<i>olive gray</i>	<i>firm</i>	<i>fine to med</i>			
<i>0.0</i>								

File ID of digital photograph(s):

Comments:



S-08A-HH36-00-22

5/30/08

<b>Battelle</b> <i>The Business of Innovation</i>		Project Name: <b>New Bedford Harbor Environmental Monitoring</b>		Project #: <b>G606422</b>	
Location: <b>New Bedford, MA</b>		Client: <b>USACE NAE</b>		Vessel: <b>R/V Gale Force</b>	
Station ID: <b>DD 28</b>		Time On Station: <b>1218</b>		All measurements are $\pm 0.1$ feet	
Core Sample ID: <b>S-08A-DD28-00-27</b>		Northing (NAD 83): <b>2702238.06</b>		Water Depth (A): <b>8.2</b>	
Logged by: <b>MW/AM</b>		Easting (NAD 83): <b>814738.77</b>		Length of push core assembly (B): <b>8.0 10.0</b>	
Collection Mechanism: <b>Push-Core</b>		GPS Accuracy: <b>2.3</b>		Water surface to top of handle (C): <b>16 2.2</b>	
Date: <b>5/30/08</b>		Predicted Tide (ft):		Length of core (from bottom) (D): <b>2.7</b>	
		Time of Collection: <b>1220 1228</b>		Surveyed elevation (NVGD 29) (E):	
		Time Depart Station: <b>1238</b>		Water surface from surveyed elevation (F): <b>-0.3</b>	

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD): $E - F$	<b>-0.3</b>
(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$	<b>-8.1</b>
(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$	<b>-7.6</b>
(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$	<b>-5.4</b>
(I <sub>2</sub> ) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$	<b>-5.5</b>
(Note if I $\neq$ I <sub>2</sub> within $\pm 1.0$ feet, discard and resample)	<b>-</b>

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.7	② silt fine sand	silt fine sand	Black	loose	fine to med			
0.5		Clay	Olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:

① 1st Attempt w/6 strong H<sub>2</sub>S odor

② WL MW 5/30



S-08A-DD28-00-27

5/30/08

Station ID: <u>W26</u>	Time On Station: <u>1246</u>	<b>All measurements are ±0.1 feet</b>
Core Sample ID: <u>S-08A-OW26-00-20</u>	Northing (NAD 83): <u>2702288.3</u>	Water Depth (A): <u>28.26</u>
Logged by: <u>MV/AM</u>	Easting (NAD 83): <u>814561.37</u>	Length of push core assembly (B): <u>7.0</u>
Collection Mechanism: <u>Push-Core</u>	GPS Accuracy: <u>3.12</u>	Water surface to top of handle (C): <u>28.21</u>
Date: <u>5/30/08</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>2.0</u>
	Time of Collection: <u>1248 1251</u>	Surveyed elevation (NVGD 29) (E): _____
	Time Depart Station: <u>1301</u>	Water surface from surveyed elevation (F): <u>-0.1</u>

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD): $E - F$	<u>-0.1</u>
(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$	<u>-5.0</u>
(z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$	<u>-3.8</u>
(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$	<u>-3.0</u>
(I <sub>2</sub> ) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$	<u>-2.7</u>
(Note if I ≠ I <sub>2</sub> within ± 1.0 feet, discard and resample)	<u>-</u>

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.0		Silt some sand	Black	loose	fine			some sand on surface
1.2		Clay	olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:

① 1st Attempt N/G



S-08A-DWab-00-20

5/30/08

Station ID: <u>AA31</u>	Time On Station: <u>1311</u>	All measurements are ±0.1 feet	
Core Sample ID: <u>S-08A-AA31-00-23</u>	Northing (NAD 83): <u>2702174.42</u>	Water Depth (A): <u>4.2</u>	
Logged by: <u>m.w./am</u>	Easting (NAD 83): <u>814675.76</u>	Length of push core assembly (B): <u>7.0</u>	
Collection Mechanism: <u>Push-Core</u>	GPS Accuracy: <u>3.25</u>	Water surface to top of handle (C): <u>0.3</u>	
Date: <u>5/30/08</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>2.3</u>	
	Time of Collection: <u>1313</u>	Surveyed elevation (NVGD 29) (E): _____	
	Time Depart Station: <u>1318</u>	Water surface from surveyed elevation (F): <u>+0.1</u>	

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD): $E - F$	<u>+0.1</u>
(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$	<u>-6.6</u>
(Z*) Elevation of visual transition (NVGD): $H + (distance\ to\ visual\ transition)$	<u>-5.7</u>
(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$	<u>-4.3</u>
(I <sub>2</sub> ) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$	<u>-4.1</u>
(Note if I ≠ I <sub>2</sub> within ± 1.0 feet, discard and resample)	<u>—</u>

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.3		Silt	Black	loose	fine			
0.9		Clay Flecks of Silt	Olive gray	firm	fine			
0.0								

File ID of digital photograph(s): \_\_\_\_\_  
 Comments: \_\_\_\_\_



S-08A-AP31-00-23

5/30/08

<b>Battelle</b> The Business of Innovation		Project Name: <b>New Bedford Harbor Environmental Monitoring</b>		Project #: <b>G606422</b>	
Location: <b>New Bedford, MA</b>		Client: <b>USACE NAE</b>		Vessel: <b>R/V Gale Force</b>	
Station ID: <u>EE24</u>		Time On Station: <u>1325</u>		All measurements are $\pm 0.1$ feet	
Core Sample ID: <u>S-08A-EE24-00-14</u>		Northing (NAD 83): <u>2702336.82</u>		Water Depth (A): <u>0 28 30</u>	
Logged by: <u>MW/AM</u>		Easting (NAD 83): <u>814762.41</u>		Length of push core assembly (B): <u>0 58 6.1</u>	
Collection Mechanism: <u>Push-Core</u>		GPS Accuracy: <u>3.19</u>		Water surface to top of handle (C): <u>0 1.7 1.6</u>	
Date: <u>5/30/08</u>		Predicted Tide (ft): _____		Length of core (from bottom) (D): <u>1.4</u>	
		Time of Collection: <u>1325 1336</u>		Surveyed elevation (NVGD 29) (E): _____	
		Time Depart Station: <u>1343</u>		Water surface from surveyed elevation (F): <u>0.5</u>	

**Calculations for Determination of Z\* Elevation**

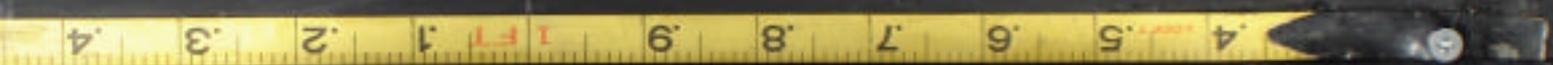
(G) Elevation of Water Surface (NVGD): $E - F$	<u>+0.5</u>
(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$	<u>-4.0</u>
(z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$	<u>-3.1</u>
(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$	<u>-2.6</u>
(I <sub>2</sub> ) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$	<u>-2.5</u>
(Note if I $\neq$ I <sub>2</sub> within $\pm 1.0$ feet, discard and resample)	<u>—</u>

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.4		silt sand	gray/blk over black	loose	fine to med			marbled silt/sand on top
0.9		clay sand	olive	firm	fine to med			SAND throughout
0.0								

File ID of digital photograph(s):

Comments:

① 1<sup>st</sup> Attempt N/G



S-08A-EE24-00-14

Station ID:	<u>L34</u>	Time On Station:	<u>1351</u>	All measurements are ±0.1 feet	
Core Sample ID:	<u>S-08A-0234-00-24</u>	Northing (NAD 83):	<u>2702099.57</u>	Water Depth (A):	<u>2.6</u>
Logged by:	<u>MW/AM</u>	Easting (NAD 83):	<u>814300.54</u>	Length of push core assembly (B):	<u>7.0</u>
Collection Mechanism:	<u>Push-Core</u>	GPS Accuracy:	<u>2.29</u>	Water surface to top of handle (C):	<u>1.8</u>
Date:	<u>5/30/08</u>	Predicted Tide (ft):		Length of core (from bottom) (D):	<u>2.4</u>
		Time of Collection:	<u>1354</u>	Surveyed elevation (NVGD 29) (E):	
		Time Depart Station:	<u>1404</u>	Water surface from surveyed elevation (F):	<u>+0.7</u>

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD): $E - F$	<u>+0.7</u>
(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$	<u>-4.5</u>
(Z*) Elevation of visual transition (NVGD): $H + (distance\ to\ visual\ transition)$	<u>-3.7</u>
(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$	<u>-2.1</u>
(I <sub>2</sub> ) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$	<u>-1.9</u>
(Note if I ≠ I <sub>2</sub> within ± 1.0 feet, discard and resample)	<u>-</u>

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.4		Silt sand	Black gray	loose	fine to med			marbled silt sand on surface
1.6		clay silt	gray	firm	fine			Blurred/mixed Transition
0.8		clay	olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:



S-08A-0L34-000-211

5/30/08

Station ID: <u>P23</u>	Time On Station: <u>1410</u>	All measurements are ±0.1 feet	
Core Sample ID: <u>S-08A-0P23-00-30</u>	Northing (NAD 83): <u>2702361.75</u>	Water Depth (A): <u>5.4</u>	
Logged by: <u>MW/AM</u>	Easting (NAD 83): <u>814399.16</u>	Length of push core assembly (B): <u>9.7</u>	
Collection Mechanism: <u>Push-Core</u>	GPS Accuracy: <u>1.92</u>	Water surface to top of handle (C): <u>1.2</u>	
Date: <u>5/30/08</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>3.0</u>	
	Time of Collection: <u>1412</u>	Surveyed elevation (NVGD 29) (E): _____	
	Time Depart Station: <u>1419</u>	Water surface from surveyed elevation (F): <u>+1.0</u>	

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD): E - F

+1.0

(H) Elevation of the bottom of the core (NVGD): G - (B - C)

-7.5

(Z\*) Elevation of visual transition (NVGD): H + (distance to visual transition)

-6.4

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): H + D

-4.5

(I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD): G - A

-4.4

(Note if I ≠ I<sub>2</sub> within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
3.0		Silt some shells	Black	loose	fine to med			
1.8		clay silt	gray black	firm	fine			Blurred/mixed Transition ↓ some streaking
1.1		clay	olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:

S-08A-0P23-00-30

5/30/08

4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 FT 1 2 3 4 5 6 7 8 9 10 FT 1 2

Station ID: <u>222</u>	Time On Station: <u>1422</u>	All measurements are $\pm 0.1$ feet	
Core Sample ID: <u>S-08A-0222-00-25</u>	Northing (NAD 83): <u>2702399.44</u>	Water Depth (A): <u>3.6</u>	
Logged by: <u>MW/AM</u>	Easting (NAD 83): <u>814300.16</u>	Length of push core assembly (B): <u>8.5</u>	
Collection Mechanism: <u>Push-Core</u>	GPS Accuracy: <u>1.95</u>	Water surface to top of handle (C): <u>2.4</u>	
Date: <u>5/30/08</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>2.5</u>	
	Time of Collection: <u>1424</u>	Surveyed elevation (NVGD 29) (E): _____	
	Time Depart Station: <u>1432</u>	Water surface from surveyed elevation (F): <u>+1.3</u>	

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD): $E - F$	<u>+1.3</u>
(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$	<u>-4.8</u>
(z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$	<u>-3.6</u>
(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$	<u>-2.3</u>
(I <sub>2</sub> ) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$	<u>-2.3</u>
(Note if I $\neq$ I <sub>2</sub> within $\pm 1.0$ feet, discard and resample)	<u>—</u>

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.5		Silt sand	Black	loose	fine to med			Sea lettuce on surface
1.6		Clay silt sand	gray black	firm	fine to med			Blurred/mixed transition
1.2		Clay some sand and shells	olive gray	firm	fine to med			
0.0								

File ID of digital photograph(s):

Comments:



S-08A-022-00-25

5/30/08

Station ID: <u>X43</u>	Time On Station: <u>1441</u>	All measurements are ±0.1 feet	
Core Sample ID: <u>S-08A-0X43-00-24</u>	Northing (NAD 83): <u>2701862.15</u>	Water Depth (A): <u>3.8</u>	
Logged by: <u>MW/AM</u>	Easting (NAD 83): <u>814586.72</u>	Length of push core assembly (B): <u>8.0</u>	
Collection Mechanism: <u>Push-Core</u>	GPS Accuracy: <u>2.3</u>	Water surface to top of handle (C): <u>1.5</u>	
Date: <u>5/30/08</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>2.4</u>	
	Time of Collection: <u>1443</u>	Surveyed elevation (NVGD 29) (E): _____	
	Time Depart Station: <u>1451</u>	Water surface from surveyed elevation (F): <u>7.5</u>	

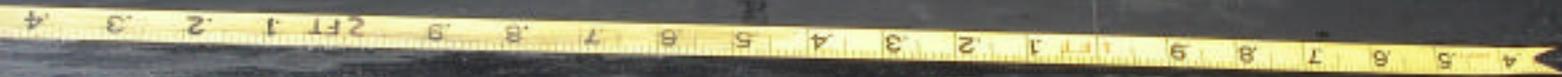
**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD): $E - F$	<u>+1.5</u>
(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$	<u>-5.0</u>
(z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$	<u>-4.1</u>
(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$	<u>-2.6</u>
(I <sub>2</sub> ) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$	<u>-2.3</u>
(Note if I ≠ I <sub>2</sub> within ± 1.0 feet, discard and resample)	<u>—</u>

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.4		Silt	Black	loose	fine			
1.7		Clay silt	Black to gray	firm	fine			
0.9		Clay	Olive gray	firm	fine to med			
0.0		some shells						

File ID of digital photograph(s):

Comments:



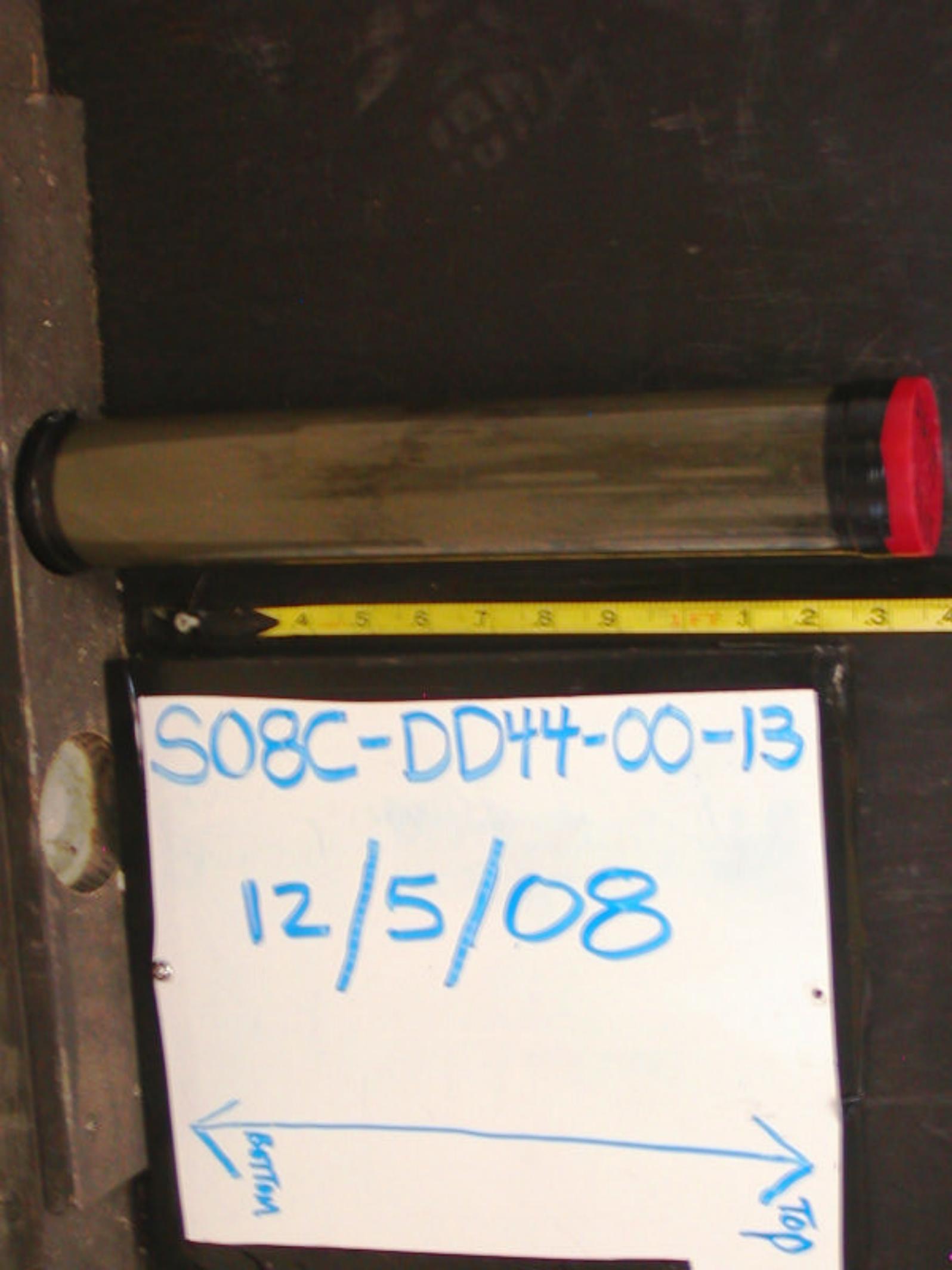
S-08A--0X43-00-24

5/30/08

**Pierce Mill Cove**  
**Post-dredge Sediment Cores**

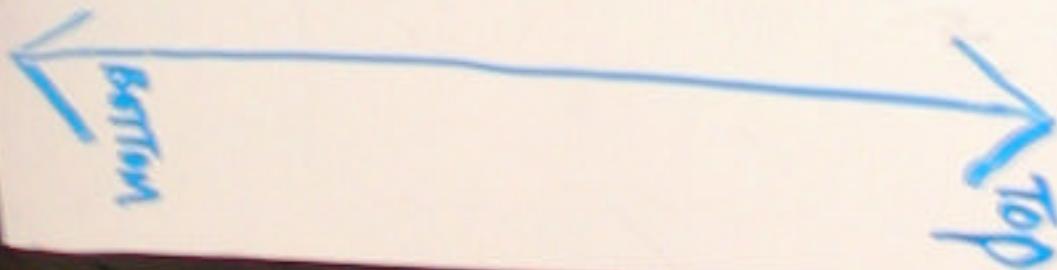
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S08C-DD44-00-13

12/5/08



Station ID: EE37 Time On Station: 0918 All measurements are  $\pm 0.1$  feet  
 Core Sample ID: S-08C-EE37-00-13 Northing (NAD 83): 2702026.51 Water Depth (A): 4.7 4.5  
 Logged by: MEM/MRF Easting (NAD 83): 84773.70 Length of push core assembly (B): 8.0  
 Collection Mechanism: Push-Core GPS Accuracy: 3.37 Water surface to top of handle (C): 0.5 0.4 2.0  
 Date: 12/5/08 Predicted Tide (ft): \_\_\_\_\_ Length of core (from bottom) (D): 1.3  
 Time of Collection: 935 Surveyed elevation (NVGD 29) (E): \_\_\_\_\_  
 Survey Type: Pre-Dredge Prog-Dredge Post-Dredge Time Depart Station: 0939 Water surface from surveyed elevation (F): -0.1

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD):  $E - F$  -0.1  
 (H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$  -6.1  
 (z\*) Elevation of visual transition (NVGD):  $H + (\text{distance to visual transition})$  -5.1  
 (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$  -4.8  
 (I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$  -4.6  
 (Note if I  $\neq$  I<sub>2</sub> within  $\pm 1.0$  feet, discard and resample) -0.2 ✓

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.3								
1.0		silty sand	dark brown	loose	med small			No Sample taken for PCB analysis 1/14/09 SMIT
0.0		clay	gray	firm	fine			

File ID of digital photograph(s): S-08C-EE37-00-13.JPG

Comments:

① 1st Attempt N/A  
 ② 2nd Attempt is good core but calculations don't add up; water depth re-measured; calculations now correct



S08C-EE37-00-13

12/5/08



Station ID: X33 Time On Station: 0942 All measurements are ±0.1 feet  
 Core Sample ID: S-08C-X33-00-16 Northing (NAD 83): 2702123.59 Water Depth (A): 4.1  
 Logged by: NEM/MRF Easting (NAD 83): 814599.03 Length of push core assembly (B): 3.0  
 Collection Mechanism: Push-Core GPS Accuracy: 2.2 Water surface to top of handle (C): 2.2  
 Date: 12/5/08 Predicted Tide (ft): \_\_\_\_\_ Length of core (from bottom) (D): 1.6  
 Time of Collection: 0946 Surveyed elevation (NVGD 29) (E): 0  
 Survey Type: Pre-Dredge Prog-Dredge Post-Dredge Time Depart Station: 0950 Water surface from surveyed elevation (F): 0.0  
 PML

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD): E - F 0.0  
 (H) Elevation of the bottom of the core (NVGD): G - (B - C) -5.8  
 (z\*) Elevation of visual transition (NVGD): H + (distance to visual transition) -5.3  
 (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): H + D -4.2  
 (I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD): G - A -4.1  
 (Note if I ≠ I<sub>2</sub> within ± 1.0 feet, discard and resample) -0.1 ✓

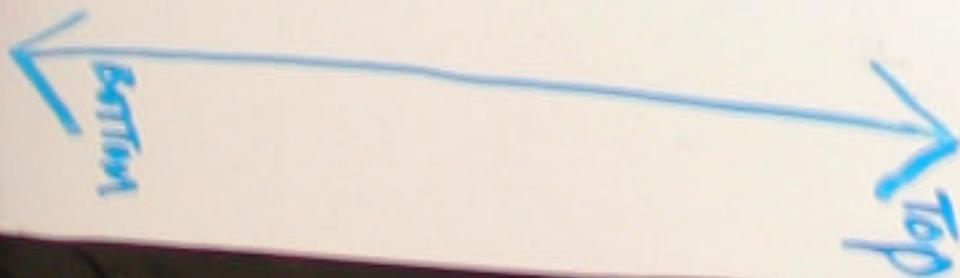
Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.6		silt	brassy black	fine loose				
0.5		clay	light gray	firm	fine			11/15/09 - Core cut - top 1.1' feet thrown bottom 1.1' - 1.6' frozen archived JMT
0.0								1/16/09 - top 1.1' subsampled ID: S-08C-X33-00-11 JMT

File ID of digital photograph(s): S-08C-0X33-00-16-5PG

Comments:

S-08C-0X33-00-16

12/5/08



Station ID: <u>T38</u>	Time On Station: <u>0956</u>	All measurements are $\pm 0.1$ feet
Core Sample ID: <u>S-08C-0T38-00-14</u>	Northing (NAD 83): <u>2701999.16</u>	Water Depth (A): <u>4.0 4.2 4.3</u>
Logged by: <u>AEM/MRF</u>	Easting (NAD 83): <u>814510.51</u>	Length of push core assembly (B): <u>8.0</u>
Collection Mechanism: <u>Push-Core</u>	GPS Accuracy: <u>2.08</u>	Water surface to top of handle (C): <u>3.0 2.1</u>
Date: <u>12/5/08</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>1.4</u>
	Time of Collection: <u>1034</u>	Surveyed elevation (NVGD 29) (E): _____
Survey Type: <u>Pre-Dredge</u> <u>Prog-Dredge</u> <u>Post-Dredge</u>	Time Depart Station: <u>1042</u>	Water surface from surveyed elevation (F): <u>0.6</u>

FMC

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD): E - F	<u>0.6</u>
(H) Elevation of the bottom of the core (NVGD): G - (B - C)	<u>-5.3</u>
(z*) Elevation of visual transition (NVGD): H + (distance to visual transition)	<u>-5.3</u>
(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): H + D	<u>-3.9</u>
(I <sub>2</sub> ) Elevation of the sediment-water interface as measured from water depth (NVGD): G - A	<u>-3.7</u>
(Note if I $\neq$ I <sub>2</sub> within $\pm 1.0$ feet, discard and resample)	<u>-0.2</u> ✓

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.4								
1.0								
0.0								
-0.4								
-1.0								
-1.4								
-2.0								
-2.6								
-3.2								
-3.8								
-4.4								
-5.0								
-5.6								
-6.2								
-6.8								
-7.4								
-8.0								
-8.6								
-9.2								
-9.8								
-10.4								
-11.0								
-11.6								
-12.2								
-12.8								
-13.4								
-14.0								
-14.6								
-15.2								
-15.8								
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-20.0								
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-49.4								
-50.0								

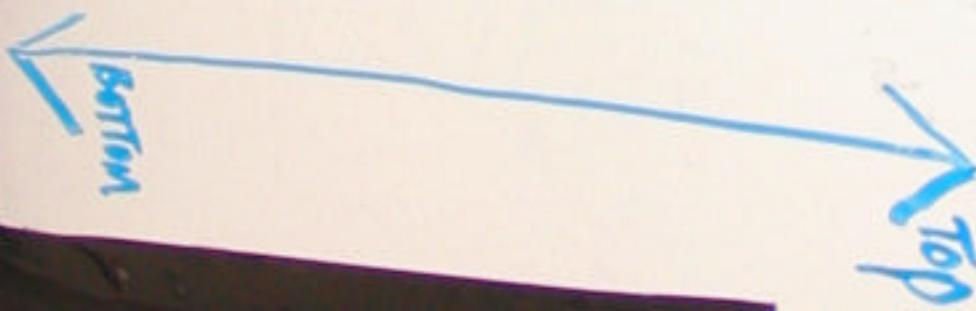
File ID of digital photograph(s): S-08C-0T38-00-14.5PG

Comments:  
 ① No clear transition, appears to be all native material possible that there's a small amount of overlying material at top which has streaked down core.



S08C-0T38-00-14

12/5/08



Bottom

Top

Station ID: CC27 Time On Station: 1045 All measurements are ±0.1 feet  
 Core Sample ID: S-08C-CC27-00-19 Northing (NAD 83): 2702273.74 Water Depth (A): 6.9707  
 Logged by: AEM/MRF Easting (NAD 83): 814726.35 Length of push core assembly (B): 4.2103  
 Collection Mechanism: Push-Core GPS Accuracy: 2.3 Water surface to top of handle (C): 4.0204  
 Date: 12/5/08 Predicted Tide (ft): \_\_\_\_\_ Length of core (from bottom) (D): 1.9  
 Time of Collection: 1120 Surveyed elevation (NVGD 29) (E): \_\_\_\_\_  
 Survey Type: Pre-Dredge Prog-Dredge Post-Dredge Time Depart Station: 1120 Water surface from surveyed elevation (F): 1.0

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD): E - F	<u>1.0</u>
(H) Elevation of the bottom of the core (NVGD): G - (B - C)	<u>-8.3</u>
(Z*) Elevation of visual transition (NVGD): H + (distance to visual transition)	<u>-7.3</u>
(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): H + D	<u>-6.4</u>
(I <sub>2</sub> ) Elevation of the sediment-water interface as measured from water depth (NVGD): G - A	<u>-6.1</u>
(Note if I ≠ I <sub>2</sub> within ± 1.0 feet, discard and resample)	<u>-0.3 ✓</u>

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.9		silt	Black	loose	↑ fine			1/16/09 - top 0.9 feet subsampled *
1.0		clay	light gray	firm	↓			bottom 0.9-1.9' archived SMT
0.0								* sample dropped lost top ~ 1 inch of core S-08C-CC27-00-09' SMT
								1/15/09 - core cut + analyzed top 0.9'

File ID of digital photograph(s): S-08C-CC27-00-19\_SPG

Comments:  
 ① 1st 3 attempts N/G, try w/ 3 ft. tube  
 ② some streaking



S08C-CC27-00-19

12/5/08



Station ID: <u>T22</u>	Time On Station: <u>1131</u>	All measurements are ±0.1 feet	
Core Sample ID: <u>S-08C-0T22-00-13</u>	Northing (NAD 83): <u>2702387.21</u>	Water Depth (A): <u>6.0</u>	
Logged by: <u>AEM/MRF</u>	Easting (NAD 83): <u>814486.89</u>	Length of push core assembly (B): <u>8.0</u>	
Collection Mechanism: <u>Push-Core</u>	GPS Accuracy: <u>3.22</u>	Water surface to top of handle (C): <u>0.4</u>	
Date: <u>12/5/08</u>	Predicted Tide (ft): <u>1.3</u>	Length of core (from bottom) (D): <u>1.3</u>	
	Time of Collection: <u>1145</u>	Surveyed elevation (NVGD 29) (E): <u>1.3</u>	
Survey Type: <u>Pre-Dredge</u>	Prog-Dredge <u>(circle)</u>	Time Depart Station: <u>1156</u>	Water surface from surveyed elevation (F): <u>1.3</u>

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD): $E - F$	<u>1.3</u>
(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$	<u>-6.1</u>
(z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$	<u>-5.2</u>
(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$	<u>-4.8</u>
(I <sub>2</sub> ) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$	<u>-4.7</u>
(Note if I ≠ I <sub>2</sub> within ± 1.0 feet, discard and resample)	<u>-0.1 ✓</u>

Elevation (NVGD) (I.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.9		silt	black					1/15/09 - core cut top 0-0.4' thawed bottom 0.4' - 1.3' frozen archive  1/16/09 - top 0.4' subsampled for PCB Congener analysis ID: S-08C-F22-00-04
0.0		silt clay	streaking black	firm	fine			

File ID of digital photograph(s): S-08C-0T22-00-13.JPG

Comments:

① 1<sup>st</sup> attempt n/g  
② A lot of streaking, transition most likely close to top

S08C-OT22-00-13

12/5/08



Station ID: <u>N25</u>	Time On Station: <u>1155</u>	All measurements are ±0.1 feet	
Core Sample ID: <u>S-08C-0N25-00-13</u>	Northing (NAD 83): <u>2702310.66</u>	Water Depth (A): <u>4.1</u>	
Logged by: <u>AEM/MRF</u>	Easting (NAD 83): <u>814338.21</u>	Length of push core assembly (B): <u>3.0</u>	
Collection Mechanism: <u>Push-Core</u>	GPS Accuracy: <u>2.69</u>	Water surface to top of handle (C): <u>2.0 2.6</u>	
Date: <u>12/5/08</u>	Predicted Tide (ft): <u>—</u>	Length of core (from bottom) (D): <u>1.3 1.3</u>	
	Time of Collection: <u>1200</u>	Surveyed elevation (NVGD 29) (E): <u>—</u>	
Survey Type: <u>Pre-Dredge</u> <u>Prog-Dredge</u> <u>Post-Dredge</u>	Time Depart Station: <u>1204 1215</u>	Water surface from surveyed elevation (F): <u>1.5</u>	

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD): $E - F$	<u>1.5</u>
(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$	<u>-3.9</u>
(z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$	<u>-3.0</u>
(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$	<u>-2.6</u>
(I <sub>2</sub> ) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$	<u>-2.6</u>
(Note if I ≠ I <sub>2</sub> within ± 1.0 feet, discard and resample)	<u>0.0 ✓</u>

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.9		silt	dark brown	loose	fine			No sample taken for PCB analysis SMR 1/15/09
0.0		clay	gray	firm	fine			

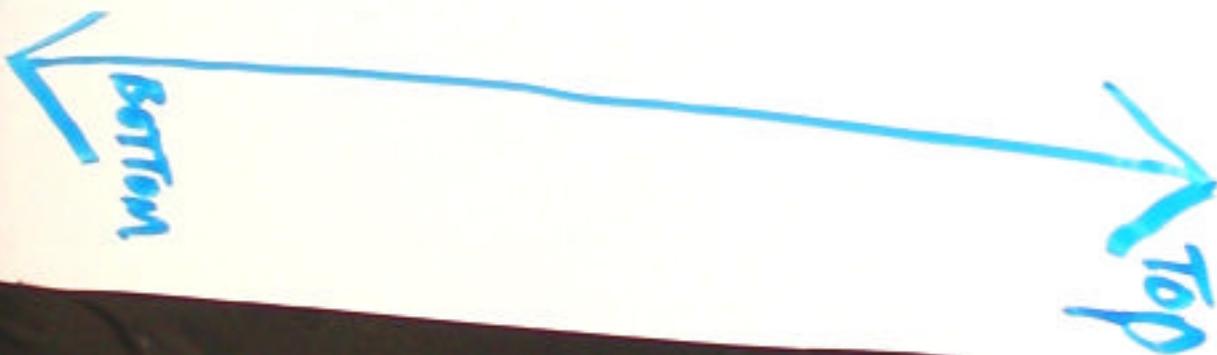
File ID of digital photograph(s): S-08C-0N25-00-13.JPG

Comments:  
 ① need longer barrel to collect sufficient amount of sediment.  
 ② disregard AEM 12/5/08  
 ③ A lot of streaking in transition @ 0.9 AEM 12/5/08



S-08C-0N25-00-13

12/5/08



Station ID: N25 Time On Station: 1155 All measurements are ±0.1 feet

Core Sample ID: S-08C-0N25-00-15-12EP Northing (NAD 83): 2707310.66 Water Depth (A): 4.1

Logged by: AEM/MRF Easting (NAD 83): 814338.21 Length of push core assembly (B): 8.0

Collection Mechanism: Push-Core GPS Accuracy: 2.69 Water surface to top of handle (C): 2.3

Date: 12/5/08 Predicted Tide (ft): \_\_\_\_\_ Length of core (from bottom) (D): 1.5

Time of Collection: 1209 Surveyed elevation (NVGD 29) (E): \_\_\_\_\_

Survey Type: Pre-Dredge Prog-Dredge Post-Dredge PMC Time Depart Station: 1215 Water surface from surveyed elevation (F): 1.5

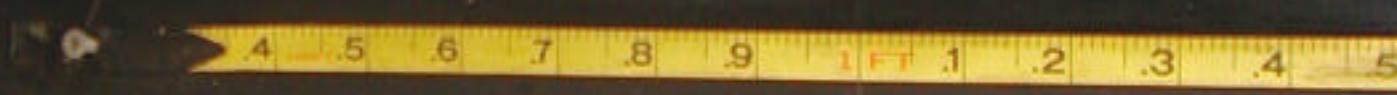
**Calculations for Determination of Z\* Elevation**

- (G) Elevation of Water Surface (NVGD):  $E - F$  1.5
  - (H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$  -4.2
  - (Z\*) Elevation of visual transition (NVGD):  $H + (\text{distance to visual transition})$  -3.5
  - (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$  -2.7
  - (I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$  -2.6
- (Note if I ≠ I<sub>2</sub> within ± 1.0 feet, discard and resample) 0.1 ✓

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.5		silt	brownish black	loose	fine			No Sample taken for PCB analysis JMT/1/15/07
0.7		clay	gray	firm	fine			
0.0			dark black					

File ID of digital photograph(s): S-08C-0N25-00-15-REP.JPG

Comments:



S-08C-0N25-00-15-  
REP

12/5/08

←  
Bottom

Top  
→

Station ID: D32 Time On Station: 1225 All measurements are  $\pm 0.1$  feet  
 Core Sample ID: S-08C-0D32-00-14 Northing (NAD 83): 2702147.00 Water Depth (A): 4.8  
 Logged by: AEM/MRF Easting (NAD 83): 814099.75 Length of push core assembly (B): 8.0  
 Collection Mechanism: Push-Core GPS Accuracy: 3.19 Water surface to top of handle (C): 1.7  
 Date: 12/5/08 Predicted Tide (ft): \_\_\_\_\_ Length of core (from bottom) (D): 1.9  
 Time of Collection: 1227 Surveyed elevation (NVGD 29) (E): \_\_\_\_\_  
 Survey Type: Pre-Dredge Prog-Dredge Post-Dredge Time Depart Station: 1234 Water surface from surveyed elevation (F): 1.7  
 Pmc

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD):  $E - F$  1.7  
 (H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$  -4.6  
 (Z\*) Elevation of visual transition (NVGD):  $H + (\text{distance to visual transition})$  -3.7  
 (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$  -3.2  
 (I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$  -3.1  
 (Note if I  $\neq$  I<sub>2</sub> within  $\pm 1.0$  feet, discard and resample) -0.1 ✓

Elevation (NVGD) (I.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.9		silt	dark gray	loose	fine			11/15/09 - core cut top 0.5' thrown bottom 0.5-1.4' frozen/archived JMT
0.0		clay w/ small shell hash	gray	firm	fine			11/16/09 - top 0.5' subsampled for PCB congeners analysis S-08C-D32-00-05 JMT

File ID of digital photograph(s): S-08C-0D32-00-14.JPG

Comments: ① streaking; top of horizon most likely @ 0.9 AEM 12/5/08



S-08C-0D32-00-14

12/5/08

Bottom

Top

Station ID: D25 Time On Station: 1238 All measurements are  $\pm 0.1$  feet

Core Sample ID: S-08C-0025-00-15 Northing (NAD 83): 2702324.58 Water Depth (A): 4.2

Logged by: AEM/MRF Easting (NAD 83): 814100.24 Length of push core assembly (B): 8.0

Collection Mechanism: Push-Core GPS Accuracy: 3.31 Water surface to top of handle (C): ① 2.522

Date: 12/5/08 Predicted Tide (ft): \_\_\_\_\_ Length of core (from bottom) (D): 1.5

Time of Collection: 1244 Surveyed elevation (NVGD 29) (E): -

Survey Type: Pre-Dredge Prog-Dredge  Post-Dredge Time Depart Station: 1248 Water surface from surveyed elevation (F): 1.8

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD): $E - F$	<u>1.8</u>
(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$	<u>-4.0</u>
(z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$	<u>-3.2</u>
(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$	<u>-2.5</u>
(I <sub>2</sub> ) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$	<u>-2.4</u>
(Note if I $\neq$ I <sub>2</sub> within $\pm 1.0$ feet, discard and resample)	<u>-0.1 ✓</u>

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.5		silty sand	dark gray	loose				
0.8		clayey sand	grayish brown	firm	med			1/16/09 - top 0.7' subsampled for PCB congeners analysis (②)
0.0								Bottom 0.7' - 1.5' archived frozen
								1/15/09 - core cut SNT

File ID of digital photograph(s): S-08C-0025-00-15-51R

Comments:  
 ① Hammered in and remeasured AEM 12/5/08  
 ② 3/b C ; ID: S-08C-0025-00-07 AEM 1/20/09



S-08C-DD25-00-15

12/5/08



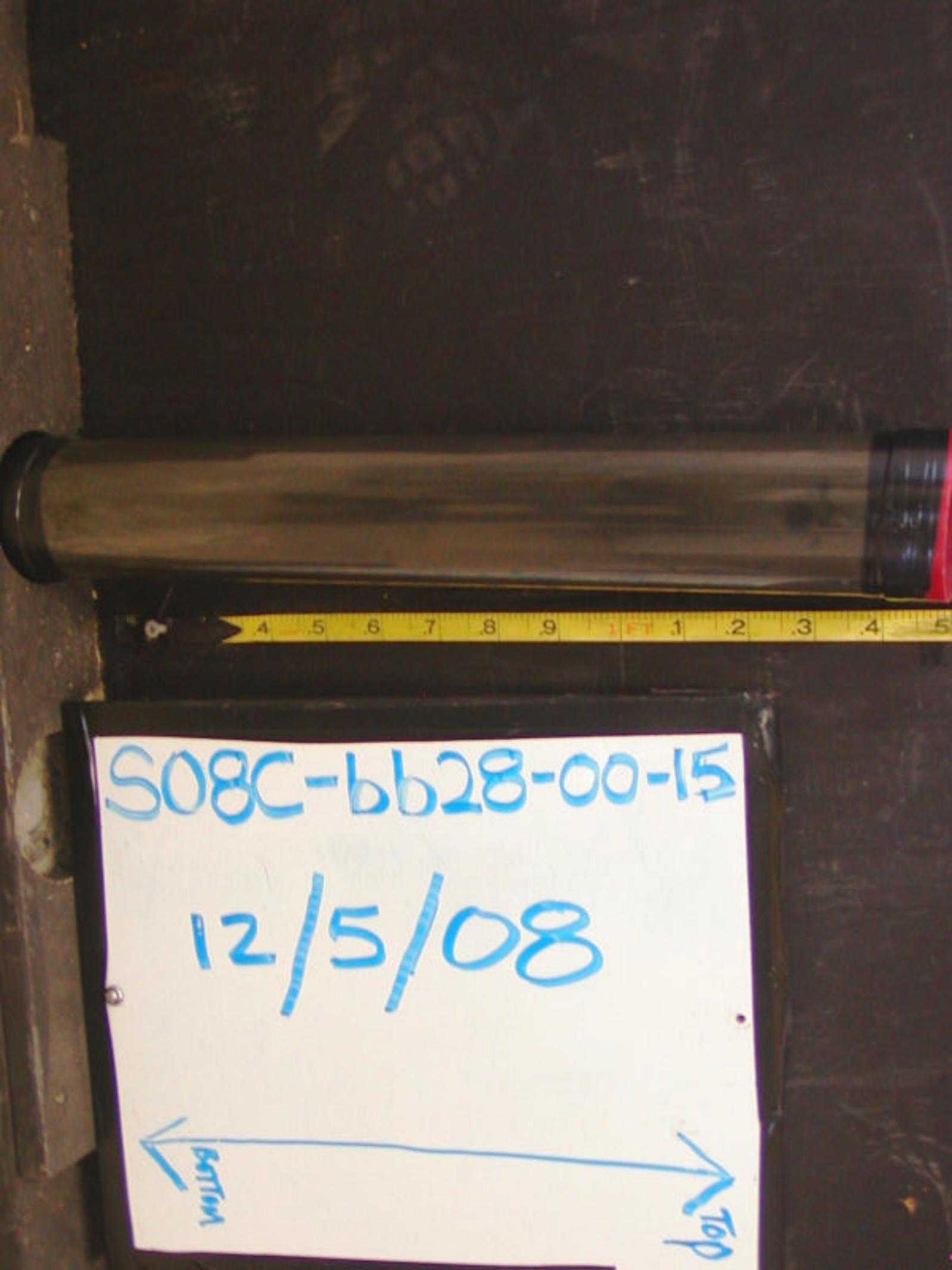
Station ID: <u>bb28</u>	Time On Station: <u>12.50</u>	All measurements are $\pm 0.1$ feet	
Core Sample ID: <u>S-08C-bb28-00-15</u>	Northing (NAD 83): <u>2702250.56</u>	Water Depth (A): <u>4.5</u>	
Logged by: <u>AEM/MRF</u>	Easting (NAD 83): <u>813949.35</u>	Length of push core assembly (B): <u>8.0</u>	
Collection Mechanism: <u>Push-Core</u>	GPS Accuracy: <u>2.38</u>	Water surface to top of handle (C): <u>1.8</u>	
Date: <u>12/5/08</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>1.5</u>	
	Time of Collection: <u>1253</u>	Surveyed elevation (NVGD 29) (E): _____	
Survey Type: <u>Pre-Dredge</u> <u>Prog-Dredge</u> <u>Post-Dredge</u>	Time Depart Station: <u>1300</u>	Water surface from surveyed elevation (F): <u>1.8</u>	

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD): $E - F$	<u>1.8</u>
(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$	<u>-4.4</u>
(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$	<u>-3.9</u>
(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$	<u>-2.9</u>
(I <sub>2</sub> ) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$	<u>-2.7</u>
(Note if I $\neq$ I <sub>2</sub> within $\pm 1.0$ feet, discard and resample)	<u>-0.2</u> ✓

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.5		silt	black	loose	fine			1/15/09 - core cut top 1.6' thrown bottom 1.0-1.5' region archived
0.5	see weeds	clay	gray	firm	fine			1/16/09 - top 1.0' subsampled for PCB congeners + <u>Monologue</u> analysis S-08C-bb28-00-10 JMI
0.0								

File ID of digital photograph(s): S-08C-bb28-00-15.JPG  
Comments:



S08C-bb28-00-15

12/5/08

Bottom

Top

Station ID: HH23 Time On Station: 1306 All measurements are  $\pm 0.1$  feet  
 Core Sample ID: S-08C-HH23-00-16 Northing (NAD 83): 2702375.29 Water Depth (A): 4.9  
 Logged by: AEM/MRF Easting (NAD 83): 814850.3 Length of push core assembly (B): 3.0  
 Collection Mechanism: Push-Core GPS Accuracy: 2.42 Water surface to top of handle (C): 1.4  
 Date: 12/5/05 Predicted Tide (ft): \_\_\_\_\_ Length of core (from bottom) (D): 1.6  
 Time of Collection: 1310 Surveyed elevation (NVGD 29) (E): \_\_\_\_\_  
 Survey Type: Pre-Dredge Prog-Dredge Post-Dredge Time Depart Station: 1313 Water surface from surveyed elevation (F): 1.8

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD):  $E - F$  1.8  
 (H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$  -4.8  
 (z\*) Elevation of visual transition (NVGD):  $H +$  (distance to visual transition) -4.8  
 (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$  -3.2  
 (I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$  -3.1  
 (Note if I  $\neq$  I<sub>2</sub> within  $\pm 1.0$  feet, discard and resample) -0.1 ✓

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
160		fine sandy clay	brown light gray	firm	small- fine			no clear transition
00								No sample taken for FB analysis diston JMT

File ID of digital photograph(s): S-08C-HH23-00-16-5PG

Comments:

S08C-HH23-00-16

12/5/08



Station ID: <u>NW34</u>	Time On Station: <u>1321</u>	All measurements are ±0.1 feet	
Core Sample ID: <u>S-08C-NW34-00-12</u>	Northing (NAD 83): <u>2702089.21</u>	Water Depth (A): <u>4.6</u>	
Logged by: <u>AEM/MRF</u>	Easting (NAD 83): <u>814947.03</u>	Length of push core assembly (B): <u>8.0</u>	
Collection Mechanism: <u>Push-Core</u>	GPS Accuracy: <u>2.20</u>	Water surface to top of handle (C): <u>2.0</u>	
Date: <u>12/5/09</u>	Predicted Tide (ft):	Length of core (from bottom) (D): <u>1.2</u>	
	Time of Collection: <u>1325</u>	Surveyed elevation (NVGD 29) (E):	
Survey Type: <u>Pre-Dredge Prog-Dredge Post-Dredge</u>	Time Depart Station: <u>1331</u>	Water surface from surveyed elevation (F): <u>1.8</u>	

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD): E - F	<u>1.8</u>
(H) Elevation of the bottom of the core (NVGD): G - (B - C)	<u>-4.2</u>
(Z*) Elevation of visual transition (NVGD): H + (distance to visual transition)	<u>-3.7</u>
(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): H + D	<u>-3.0</u>
(I <sub>2</sub> ) Elevation of the sediment-water interface as measured from water depth (NVGD): G - A	<u>-2.8</u>
(Note if I ≠ I <sub>2</sub> within ± 1.0 feet, discard and resample)	<u>-0.2 ✓</u>

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.2		black silt	black	coarse	fine			No sample taken for PCB analysis JMR 1/15/09
0.5		clay	olive gray	firm	fine			
0.0								

File ID of digital photograph(s): S-08C-NW34-00-12-SPG

Comments:

S-08C-NN34-00-12

12/5/08



Station ID: <u>LL40</u>	Time On Station: <u>1335</u>	All measurements are ±0.1 feet	
Core Sample ID: <u>S-080-LL40-00-16</u>	Northing (NAD 83): <u>2701936.86</u>	Water Depth (A): <u>4.6</u>	
Logged by: <u>AEM/MRF</u>	Easting (NAD 83): <u>814939.77</u>	Length of push core assembly (B): <u>8.1</u>	
Collection Mechanism: <u>Push-Core</u>	GPS Accuracy: <u>2.12</u>	Water surface to top of handle (C): <u>1.6-01.9</u>	
Date: <u>12/5/08</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>1.6</u>	
	Time of Collection: <u>1347</u>	Surveyed elevation (NVGD 29) (E): _____	
Survey Type: <u>Pre-Dredge</u> <u>Prog-Dredge</u> <u>Post-Dredge</u> <input checked="" type="checkbox"/>	Time Depart Station: <u>1351</u>	Water surface from surveyed elevation (F): <u>1.7</u>	

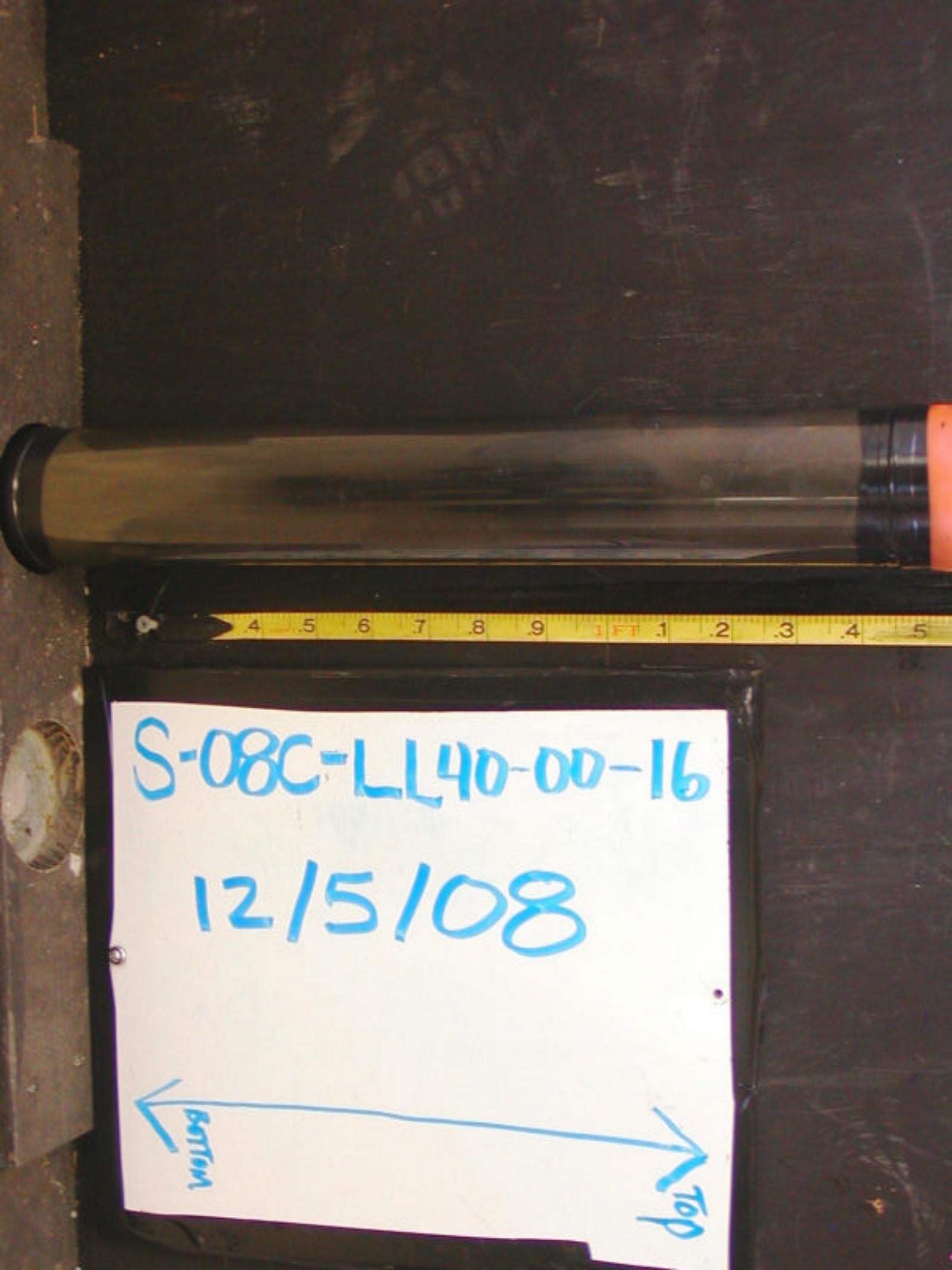
**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD): E - F	<u>1.7</u>
(H) Elevation of the bottom of the core (NVGD): G - (B - C)	<u>-4.5</u>
(z*) Elevation of visual transition (NVGD): H + (distance to visual transition)	<u>-4.0</u>
(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): H + D	<u>-2.9</u>
(I <sub>2</sub> ) Elevation of the sediment-water interface as measured from water depth (NVGD): G - A	<u>-2.9</u>
(Note if I ≠ I <sub>2</sub> within ± 1.0 feet, discard and resample)	<u>0.0 ✓</u>

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.6		Silt	brwnish black	loose	fine			
0.5		clay	gray	firm	fine			No sample taken for PCB analysis JMT 1/15/09
0.0								

File ID of digital photograph(s): S-080-LL40-00-16.5PG

Comments: ① 1st Attempt N/G AEM 12/5/08



S-08C-LL40-00-16

12/5/08



Station ID: UU33 Time On Station: 1355 All measurements are ±0.1 feet  
 Core Sample ID: S-08C-UU33-00-17 Northing (NAD 83): 2702113.75 Water Depth (A): 5.2  
 Logged by: AEM/MRF Easting (NAD 83): 815162.06 Length of push core assembly (B): 9.0  
 Collection Mechanism: Push-Core GPS Accuracy: 2.01 Water surface to top of handle (C): 1.9  
 Date: 12/5/05 Predicted Tide (ft): \_\_\_\_\_ Length of core (from bottom) (D): 1.7  
 Time of Collection: 1359 Surveyed elevation (NVGD 29) (E): \_\_\_\_\_  
 Survey Type: Pre-Dredge Prog-Dredge Post-Dredge Time Depart Station: 1403 Water surface from surveyed elevation (F): 1.7

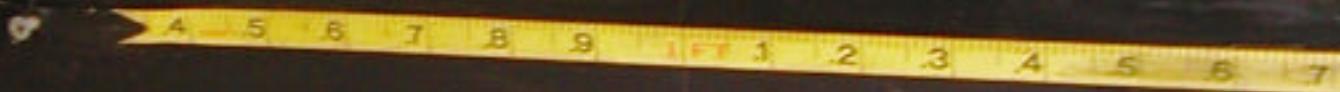
**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD):  $E - F$  1.7  
 (H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$  -5.4  
 (Z\*) Elevation of visual transition (NVGD):  $H + (\text{distance to visual transition})$  -4.7  
 (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$  -3.7  
 (I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$  -3.5  
 (Note if I ≠ I<sub>2</sub> within ± 1.0 feet, discard and resample) -0.2 ✓

Elevation (NVGD) (I.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.7		silt	black	bose	fine			
0.7		clay w/ shell fragments	gray	firm	fine			
0.0								* Sample taken for PCB analysis JMT 1/15/06

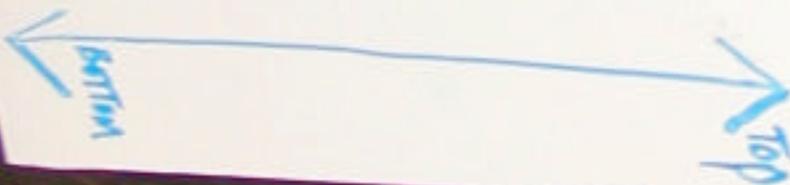
File ID of digital photograph(s): S-08C-UU33-00-17-SPG

Comments:



S08C-UU33-00-17

12/5/08



# **North of Wood Street Sediments**

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Station ID: 0008-30E Time On Station: 9:03 All measurements are  $\pm 0.1$  feet  
 Core Sample ID: S-08D-0008-30E-09-10 Northing (NAD 83): 2708683.7 Water Depth (A): NA  
 Logged by: AFM Easting (NAD 83): 815498.6 Length of push core assembly (B): NA  
 Collection Mechanism: Push-Core Auger GPS Accuracy: 1.91 Water surface to top of handle (C): NA  
 Date: 11/20/08 Predicted Tide (ft): \_\_\_\_\_ Length of core (from bottom) (D): 1.0  
 Time of Collection: 9:05 Surveyed elevation (NVGD 29) (E): NA  
 Survey Type: Pre-Dredge Prog-Dredge Post-Dredge Time Depart Station: 9:10 Water surface from surveyed elevation (F): NA  
NWS

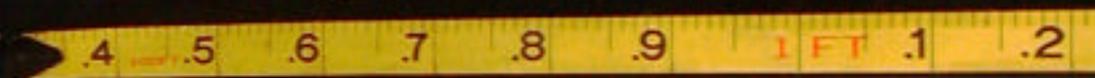
**Calculations for Determination of Z\* Elevation**

- (G) Elevation of Water Surface (NVGD):  $E - F$  \_\_\_\_\_
  - (H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$  \_\_\_\_\_
  - (z\*) Elevation of visual transition (NVGD):  $H +$  (distance to visual transition) \_\_\_\_\_
  - (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$  \_\_\_\_\_
  - (I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$  \_\_\_\_\_
- (Note if I  $\neq$  I<sub>2</sub> within  $\pm 1.0$  feet, discard and resample)

Elevation (NVGD) (I.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.0		sand	yellowish brown olive		med			uniform - no transition line seen
0.0								

File ID of digital photograph(s): S-08D-0008-30E-00-10

Comments:



S-08D-C008-30E  
-00-10

11/20/08

Station ID: NWS-037 Time On Station: 7:12 All measurements are  $\pm 0.1$  feet

Core Sample ID: S-08D-NWS-037-00-10 Northing (NAD 83): 2708692.34 Water Depth (A): NA

Logged by: AEM Easting (NAD 83): 315534.72 Length of push core assembly (B): NA

Collection Mechanism: Push-Core Auger GPS Accuracy: 7.0 1.93 Water surface to top of handle (C): NA

Date: 11/20/08 Predicted Tide (ft): NA Length of core (from bottom) (D): 1.0

Time of Collection: 9:13 Surveyed elevation (NVGD 29) (E): NA

Survey Type: Pre-Dredge Prog-Dredge Post-Dredge Time Depart Station: 9:20 Water surface from surveyed elevation (F): NA

NWS

**Calculations for Determination of Z\* Elevation**

- (G) Elevation of Water Surface (NVGD):  $E - F$
- (H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$
- (z\*) Elevation of visual transition (NVGD):  $H + (\text{distance to visual transition})$
- (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$
- (I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$
- (Note if I  $\neq$  I<sub>2</sub> within  $\pm 1.0$  feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.0		organics						
		silty sand through out	muddy brown					
0.0		gravel			large			uniform - no transition seen

File ID of digital photograph(s): S-08D-NWS-37-00-10.SP5

Comments:



S-08D-NWS-37  
00-10

11/20/08

Station ID: NWS-35 Time On Station: 1921 All measurements are ±0.1 feet

Core Sample ID: S-08D-NWS-35-00-10 Northing (NAD 83): 2708754.5 Water Depth (A): NA

Logged by: AEM Easting (NAD 83): 815508.68 Length of push core assembly (B): ↓

Collection Mechanism: Push Core Auger GPS Accuracy: 2.08 Water surface to top of handle (C): ↓

Date: 11/20/08 Predicted Tide (ft): ↓ Length of core (from bottom) (D): 1.0

Survey Type: Pre-Dredge Prog-Dredge Post-Dredge Time Depart Station: 9:29 Surveyed elevation (NVGD 29) (E): ↓

NWS

**Calculations for Determination of Z\* Elevation**

- (G) Elevation of Water Surface (NVGD):  $E - F$  \_\_\_\_\_
  - (H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$  \_\_\_\_\_
  - (Z\*) Elevation of visual transition (NVGD):  $H + (\text{distance to visual transition})$  \_\_\_\_\_
  - (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$  \_\_\_\_\_
  - (I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$  \_\_\_\_\_
- (Note if I ≠ I<sub>2</sub> within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.0	<u>2</u>	<u>sand w/organic material</u>	<u>mottled brown and grey</u>	<u>firm throughout</u>	<u>fine to large throughout</u>			<u>No transition seen - uniform core</u>
0.0		<u>Silty Sand some fine</u>						

File ID of digital photograph(s): S-08D-NWS-35-00-10.JPG

Comments:



S-08D-NWS35-  
00-10

11/20/08

Station ID: NWS-36 Time On Station: 0931 All measurements are  $\pm 0.1$  feet

Core Sample ID: S-08D-NWS36-00-10 Northing (NAD 83): 2706761.25 Water Depth (A): NA

Logged by: AEM Easting (NAD 83): 815516.12 Length of push core assembly (B): ↓

Collection Mechanism: Push-Core Auger GPS Accuracy: 1.90 Water surface to top of handle (C): ↓

Date: 11/20/08 Predicted Tide (ft): \_\_\_\_\_ Length of core (from bottom) (D): 1.0

Survey Type: Pre-Dredge Prog-Dredge Post-Dredge Time of Collection: 0932 Surveyed elevation (NVGD 29) (E): \_\_\_\_\_

Time Depart Station: 0937 Water surface from surveyed elevation (F): ↓

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD):  $E - F$  \_\_\_\_\_

(H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$  \_\_\_\_\_

(Z\*) Elevation of visual transition (NVGD):  $H + (\text{distance to visual transition})$  \_\_\_\_\_

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$  \_\_\_\_\_

(I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$  \_\_\_\_\_

(Note if I  $\neq$  I<sub>2</sub> within  $\pm 1.0$  feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.0		sand + silt w/ organic			large			no transition seen uniform core slight tan color @ bottom
0		gravel + sand	mostly brown some grey					

File ID of digital photograph(s): S-08D-NWS-36-00-10-SPG

Comments:



S-08D-NWS36-  
00-10

11/20/08

Station ID: NWS-38 Time On Station: 9:39 All measurements are  $\pm 0.1$  feet

Core Sample ID: S-08D-NWS38-00-10 Northing (NAD 83): 2708894.27 Water Depth (A): NA

Logged by: AEM Easting (NAD 83): 815503.15 Length of push core assembly (B): \_\_\_\_\_

Collection Mechanism: Push-Core GPS Accuracy: 3.3 Water surface to top of handle (C): \_\_\_\_\_

Date: 11/20/08 Predicted Tide (ft): \_\_\_\_\_ Length of core (from bottom) (D): 1.0

Survey Type: Pre-Dredge Prog-Dredge Post-Dredge Time Depart Station: 9:40 Surveyed elevation (NVGD 29) (E): \_\_\_\_\_

NWS Water surface from surveyed elevation (F): \_\_\_\_\_

**Calculations for Determination of Z\* Elevation**

- (G) Elevation of Water Surface (NVGD):  $E - F$  \_\_\_\_\_
  - (H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$  \_\_\_\_\_
  - (z\*) Elevation of visual transition (NVGD):  $H + (\text{distance to visual transition})$  \_\_\_\_\_
  - (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$  \_\_\_\_\_
  - (I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$  \_\_\_\_\_
- (Note if I  $\neq$  I<sub>2</sub> within  $\pm 1.0$  feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.0		sand	brown		med.			
0.0	0.5	silty sand	light gray					

File ID of digital photograph(s): S-08D-NWS-38-00-10.JPG

Comments:



S-08D-NWS-38

00-10

11/20/08

Station ID: NWS-39 Time On Station: 943 All measurements are ±0.1 feet  
 Core Sample ID: S-08D-NWS39-00-10 Northing (NAD 83): 2705520.31 Water Depth (A): NA  
 Logged by: AEM Easting (NAD 83): 815508.55 Length of push core assembly (B): NA  
 Collection Mechanism: Push-Core Auger GPS Accuracy: 1.96 Water surface to top of handle (C): NA  
 Date: 11/20/08 Predicted Tide (ft): \_\_\_\_\_ Length of core (from bottom) (D): 1.0  
 Time of Collection: 0944 Surveyed elevation (NVGD 29) (E): NA  
 Survey Type: Pre-Dredge Prog-Dredge Post-Dredge Time Depart Station: 0947 Water surface from surveyed elevation (F): NA  
NWS

**Calculations for Determination of Z\* Elevation**

- (G) Elevation of Water Surface (NVGD):  $E - F$  \_\_\_\_\_
  - (H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$  \_\_\_\_\_
  - (z\*) Elevation of visual transition (NVGD):  $H + (\text{distance to visual transition})$  \_\_\_\_\_
  - (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$  \_\_\_\_\_
  - (I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$  \_\_\_\_\_
- (Note if I ≠ I<sub>2</sub> within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.0		Silty sand	dark brown		large			
0.0		gravel	light gray					

File ID of digital photograph(s): S-08D-NWS-39-00-10.JPG

Comments:



.4 .5 .6 .7 .8 .9 1 FT 1

S-08D-NWS-39  
00-10

11/20/08

Station ID: C008-30W Time On Station: 10:03 All measurements are ±0.1 feet

Core Sample ID: S-08D-C008-30W-00-1A Northing (NAD 83): 2708653.3 Water Depth (A): NA

Logged by: AEM Easting (NAD 83): 815363.8 Length of push core assembly (B): NA

Collection Mechanism: Push-Core Auger GPS Accuracy: 2.52 Water surface to top of handle (C): NA

Date: 11/20/08 Predicted Tide (ft): \_\_\_\_\_ Length of core (from bottom) (D): 1.0

Survey Type: Pre-Dredge Prog-Dredge Post-Dredge Time of Collection: 10:04 Surveyed elevation (NVGD 29) (E): NA

Time Depart Station: 10:07 Water surface from surveyed elevation (F): NA

*NWS*

**Calculations for Determination of Z\* Elevation**

- (G) Elevation of Water Surface (NVGD):  $E - F$  \_\_\_\_\_
  - (H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$  \_\_\_\_\_
  - (z\*) Elevation of visual transition (NVGD):  $H + (\text{distance to visual transition})$  \_\_\_\_\_
  - (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$  \_\_\_\_\_
  - (I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$  \_\_\_\_\_
- (Note if I ≠ I<sub>2</sub> within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.0		organic material	brown		large			Bottom 0-0.3 5 in color
0.0	organics	sandy gravel	light gray					

File ID of digital photograph(s): S-08D-C008-30W-00-10.JPG

Comments:



S-08D-C008-30W  
-00-10

11/20/08

Station ID: NWS-34 Time On Station: 10:59 All measurements are ±0.1 feet

Core Sample ID: S-08D-NWS34-00-10 Northing (NAD 83): 2708923.9 Water Depth (A): NA

Logged by: AEM Easting (NAD 83): 315338.8 Length of push core assembly (B): NA

Collection Mechanism: Push-Core Auger GPS Accuracy: 3.75 Water surface to top of handle (C): NA

Date: 11/20/06 Predicted Tide (ft): \_\_\_\_\_ Length of core (from bottom) (D): 1.0

Survey Type: Pre-Dredge Prog-Dredge Post-Dredge Time of Collection: 11:00 Surveyed elevation (NVGD 29) (E): NA

Time Depart Station: 11:06 Water surface from surveyed elevation (F): NA

**Calculations for Determination of Z\* Elevation**

- (G) Elevation of Water Surface (NVGD):  $E - F$  \_\_\_\_\_
- (H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$  \_\_\_\_\_
- (Z\*) Elevation of visual transition (NVGD):  $H + (\text{distance to visual transition})$  \_\_\_\_\_
- (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$  \_\_\_\_\_
- (I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$  \_\_\_\_\_
- (Note if I ≠ I<sub>2</sub> within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.0								
0.0		sand big gravel	brown		large			uniform throughout core

File ID of digital photograph(s): S-08D-NWS-34-00-10.JPG

Comments: Rect



S-08D-NWS-34

00-10

11/20/08

Station ID: NWS-33 Time On Station: 11:08 All measurements are ±0.1 feet

Core Sample ID: S-08D-NWS33-00-10 Northing (NAD 83): 2709039.40 Water Depth (A): NA

Logged by: AEM Easting (NAD 83): 315330.20 Length of push core assembly (B): ↓

Collection Mechanism: Push-Core GPS Accuracy: 3.0+ Water surface to top of handle (C): ↓

Date: 11/20/06 Predicted Tide (ft): ↓ Length of core (from bottom) (D): 1.0

Survey Type: Pre-Dredge Prog-Dredge (Post-Dredge) Time Depart Station: 11:11 Surveyed elevation (NVGD 29) (E): ↓

NWS

**Calculations for Determination of Z\* Elevation**

- (G) Elevation of Water Surface (NVGD):  $E - F$  \_\_\_\_\_
  - (H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$  \_\_\_\_\_
  - (z\*) Elevation of visual transition (NVGD):  $H + (\text{distance to visual transition})$  \_\_\_\_\_
  - (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$  \_\_\_\_\_
  - (I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$  \_\_\_\_\_
- (Note if I ≠ I<sub>2</sub> within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.0		sand	muddy brown					
Horizontal @ 0.4		-0.4						
0.0		dry sand	gray					

File ID of digital photograph(s): S-08D-NWS-33-00-10.JPG

Comments:



S-08D-NWS-33  
00-10

11/20/08

Station ID: C008-062 Time On Station: 1:44 All measurements are  $\pm 0.1$  feet  
 Core Sample ID: S-08D-C008-062-00-16 Northing (NAD 83): 2705165.92 Water Depth (A): 3.335  
 Logged by: PC Easting (NAD 83): 815567.28 Length of push core assembly (B): 8.2  
 Collection Mechanism: Push-Core GPS Accuracy: 3.01 Water surface to top of handle (C): \*40.33\*  
 Date: 12/3/08 Predicted Tide (ft): \_\_\_\_\_ Length of core (from bottom) (D): 1.6  
 Time of Collection: 9:15 Surveyed elevation (NVGD 29) (E): NA  
 Survey Type: Pre-Dredge Prog-Dredge (Post-Dredge) Time Depart Station: 9:17 Water surface from surveyed elevation (F): NA

**Calculations for Determination of Z\* Elevation**

- (G) Elevation of Water Surface (NVGD):  $E - F$
  - (H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$
  - (z\*) Elevation of visual transition (NVGD):  $H + (\text{distance to visual transition})$
  - (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$
  - (I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$
- (Note if I  $\neq$  I<sub>2</sub> within  $\pm 1.0$  feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.6		silt w/ sand	dark brown/ black	firm	sm- fine			
0.6		clay w/ sand	light brown	firm	fine			
0.0								

File ID of digital photograph(s): S-08D-C008-062-00-16.SPG

Comments:  
 \* Not a good core  
 \*\* Not a good core

S-08D-0008-062-00-16

12/3/08

Bottom

Top

Station ID: 0008-055 Time On Station: 0921 All measurements are  $\pm 0.1$  feet

Core Sample ID: S-USD-0008-055-00-15 Northing (NAD 83): 2708266.99 Water Depth (A): 5.5

Logged by: AEM Easting (NAD 83): 815461.10 Length of push core assembly (B): 8.0

Collection Mechanism: Push-Core GPS Accuracy: 2.52 Water surface to top of handle (C): 0.9

Date: 12/3/08 Predicted Tide (ft): \_\_\_\_\_ Length of core (from bottom) (D): 1.5

Time of Collection: 0934 Surveyed elevation (NVGD 29) (E): NA

Survey Type: Pre-Dredge Prog-Dredge Post-Dredge Time Depart Station: 0940 Water surface from surveyed elevation (F) NA

NWS

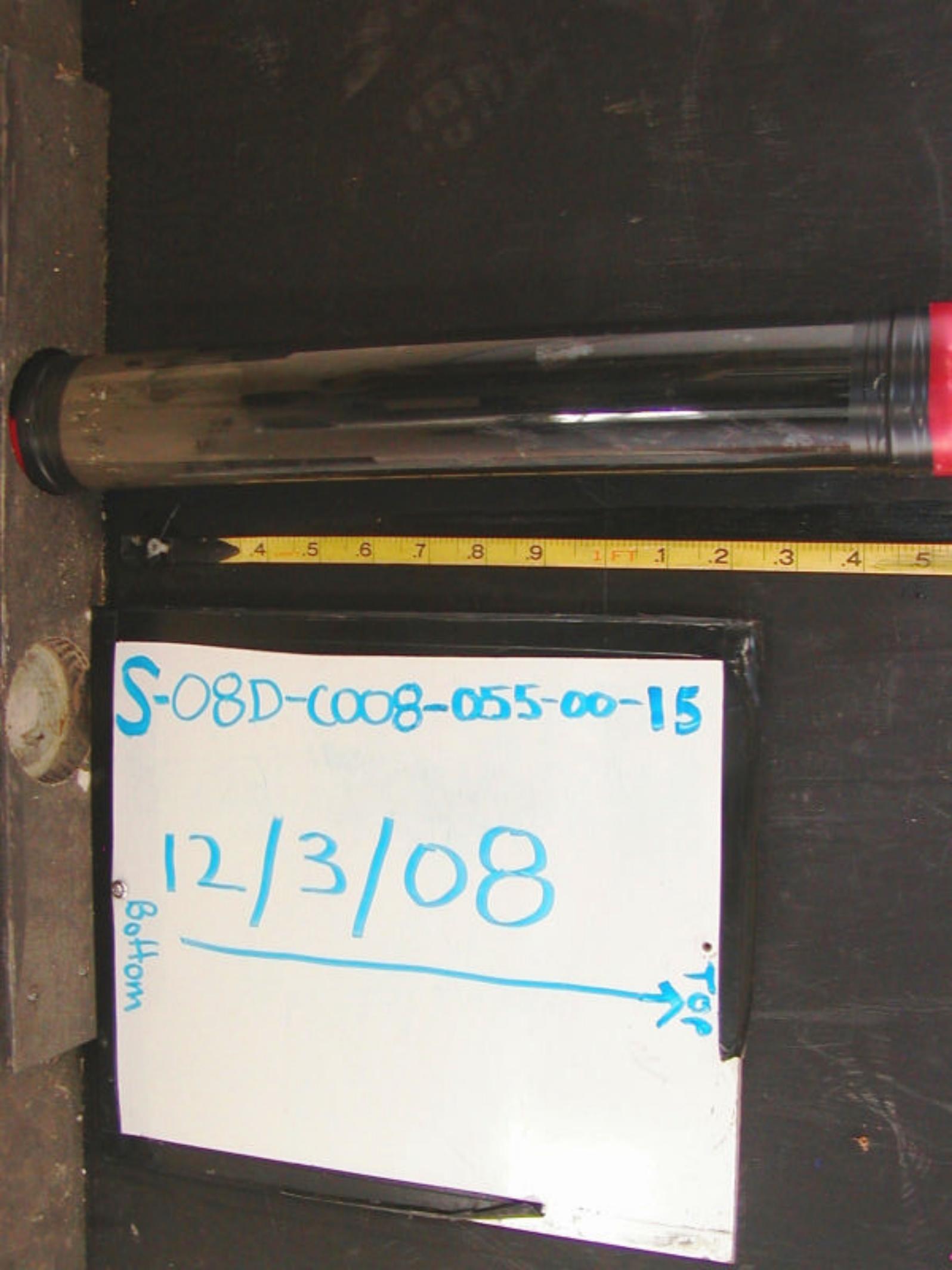
**Calculations for Determination of Z\* Elevation**

- (G) Elevation of Water Surface (NVGD):  $E - F$  \_\_\_\_\_
  - (H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$  \_\_\_\_\_
  - (z\*) Elevation of visual transition (NVGD):  $H + (\text{distance to visual transition})$  \_\_\_\_\_
  - (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$  \_\_\_\_\_
  - (I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$  \_\_\_\_\_
- (Note if I  $\neq$  I<sub>2</sub> within  $\pm 1.0$  feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.5		fine sandy silt	Dark Brown/Black	silt/loam	fine			
0.5		organic mat.						
0.0		clay	light brown	firm	fine			

File ID of digital photograph(s): S-USD-0008-055-00-15.JPG

Comments:



S-08D-C008-055-00-15

12/3/08

Bottom

Top

Station ID: <u>008-055</u>	Time On Station: <u>0931</u>	All measurements are $\pm 0.1$ feet	
Core Sample ID: <u>S-08D-0008-055-00-16-REP</u>	Northing (NAD 83): <u>2708266.99</u>	Water Depth (A): <u>5.6</u>	
Logged by: <u>AEM</u>	Easting (NAD 83): <u>515461.10</u>	Length of push core assembly (B): <u>3.0</u>	
Collection Mechanism: <u>Push-Core</u>	GPS Accuracy: <u>2.52</u>	Water surface to top of handle (C): <u>0.7</u>	
Date: <u>12/3/08</u>	Predicted Tide (ft):	Length of core (from bottom) (D): <u>1.6</u>	
	Time of Collection: <u>9:35</u>	Surveyed elevation (NVGD 29) (E): <u>NA</u>	
Survey Type: <u>Post-Dredge</u>	Time Depart Station: <u>940</u>	Water surface from surveyed elevation (F): <u>NA</u>	

**Calculations for Determination of Z\* Elevation**

- (G) Elevation of Water Surface (NVGD):  $E - F$
  - (H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$
  - (z\*) Elevation of visual transition (NVGD):  $H + (\text{distance to visual transition})$
  - (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$
  - (I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$
- (Note if I  $\neq$  I<sub>2</sub> within  $\pm 1.0$  feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
7.6		sandy silt	dark brown/black	loose	fine			
0.5-0.6	(sea surface) organic mat.	silt	light brown	firm	fine			
0.0								

File ID of digital photograph(s): S-08D-0008-055-00-16-REP.SPG

Comments:  
① S/B - REP  
AEM 12/3/08



S-08D-C008-055-00-16-  
REP

12/3/08

Bottom



Top

Station ID: C008-048 Time On Station: 0946 All measurements are  $\pm 0.1$  feet  
 Core Sample ID: S-08D-C008-048-00-16 Northing (NAD 83): 2708387.52 Water Depth (A): 5.0  
 Logged by: AEM Easting (NAD 83): 915414.40 Length of push core assembly (B): 8.0  
 Collection Mechanism: Push-Core GPS Accuracy: 2.58 Water surface to top of handle (C): 1.2  
 Date: 12/3/05 Predicted Tide (ft): \_\_\_\_\_ Length of core (from bottom) (D): 1.6  
 Time of Collection: 0950 Surveyed elevation (NVGD 29) (E): NA  
 Survey Type: Pre-Dredge Prog-Dredge Post-Dredge Time Depart Station: 0955 Water surface from surveyed elevation (F): NA

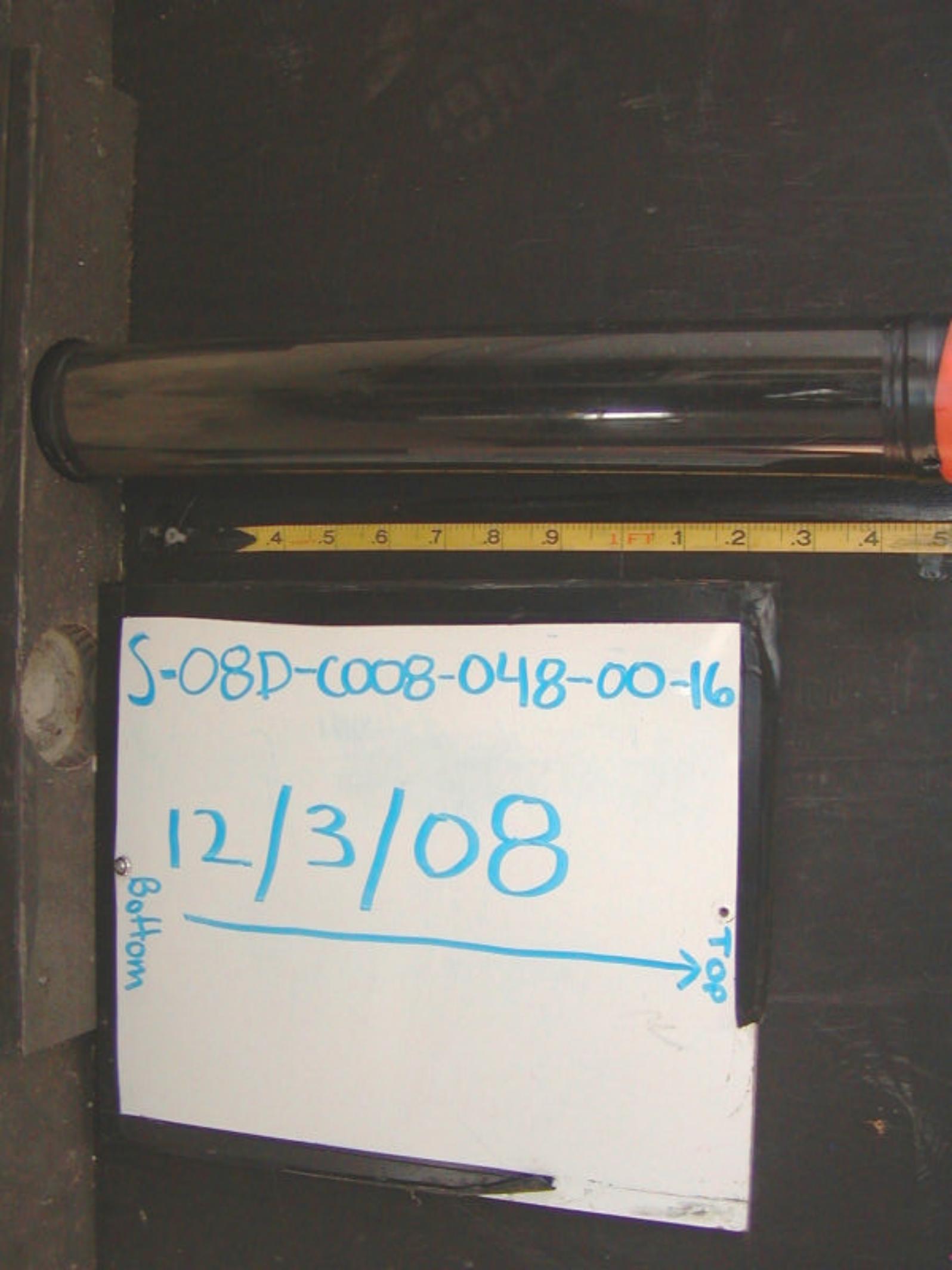
**Calculations for Determination of Z\* Elevation**

- (G) Elevation of Water Surface (NVGD):  $E - F$
- (H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$
- (Z\*) Elevation of visual transition (NVGD):  $H + (\text{distance to visual transition})$
- (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$
- (I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$
- (Note if I  $\neq$  I<sub>2</sub> within  $\pm 1.0$  feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.6	oo	shaly organic mud	dark brown black	loose	small	-		
0.5-6		clay	light brown	Firm	small	-		shaly transitions
0.0								

File ID of digital photograph(s): S-08D-C008-048-00-16 SP6

Comments: Close GPS signal under bridge



S-08D-C008-048-00-16

12/3/08

Bottom

Top

Station ID:	<u>C008-049</u>	Time On Station:	<u>0958</u>	<b>All measurements are ±0.1 feet</b>	
Core Sample ID:	<u>S-08D-C008-049-00-12</u>	Northing (NAD 83):	<u>2768405.78</u>	Water Depth (A):	<u>4.2</u>
Logged by:	<u>AEM</u>	Easting (NAD 83):	<u>315468.41</u>	Length of push core assembly (B):	<u>8.0</u>
Collection Mechanism:	<u>Push-Core</u>	GPS Accuracy:	<u>2.77</u>	Water surface to top of handle (C):	<u>2.5</u>
Date:	<u>12/1/03</u>	Predicted Tide (ft):		Length of core (from bottom) (D):	<u>1.2</u>
		Time of Collection:	<u>1002</u>	Surveyed elevation (NVGD 29) (E):	<u>NA</u>
Survey Type:	Pre-Dredge Prog-Dredge <u>Post-Dredge</u>	Time Depart Station:	<u>1006</u>	Water surface from surveyed elevation (F):	<u>NA</u>

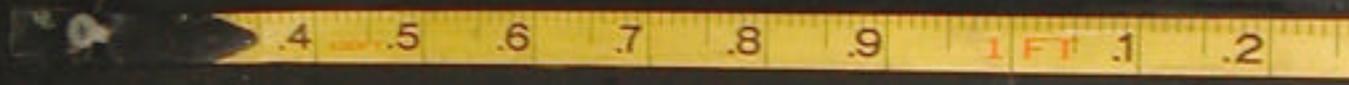
**Calculations for Determination of Z\* Elevation**

- (G) Elevation of Water Surface (NVGD):  $E - F$  \_\_\_\_\_
  - (H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$  \_\_\_\_\_
  - (z\*) Elevation of visual transition (NVGD):  $H + (\text{distance to visual transition})$  \_\_\_\_\_
  - (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$  \_\_\_\_\_
  - (I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$  \_\_\_\_\_
- (Note if I ≠ I<sub>2</sub> within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.0		sand	Dark Black	loose	fine- med			
0.9								
0.7								
0.2		clay	light gray brown	firm	small			
0.0								

File ID of digital photograph(s): S-08D-C008-049-00-12.JPG

Comments:



S-08D-C008-049-00-12

12/3/08

Bottom

Top



Station ID: C008-040 Time On Station: 1014 All measurements are  $\pm 0.1$  feet  
 Core Sample ID: S-08D-C008-040-00-17 Northing (NAD 83): 2708514.69 Water Depth (A): 5.7  
 Logged by: AEM Easting (NAD 83): 815462.20 Length of push core assembly (B): 3.0  
 Collection Mechanism: Push-Core GPS Accuracy: 2.09 Water surface to top of handle (C): 1.0  
 Date: 12/3/08 Predicted Tide (ft): \_\_\_\_\_ Length of core (from bottom) (D): 1.2  
 Time of Collection: 1017 Surveyed elevation (NVGD 29) (E): NA  
 Survey Type: Pre-Dredge Prog-Dredge Post-Dredge Time Depart Station: 1030 Water surface from surveyed elevation (F): NA  
 NWS

**Calculations for Determination of Z\* Elevation**

- (G) Elevation of Water Surface (NVGD):  $E - F$  \_\_\_\_\_
  - (H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$  \_\_\_\_\_
  - (z\*) Elevation of visual transition (NVGD):  $H + (\text{distance to visual transition})$  \_\_\_\_\_
  - (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$  \_\_\_\_\_
  - (I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$  \_\_\_\_\_
- (Note if I  $\neq$  I<sub>2</sub> within  $\pm 1.0$  feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
5.7		fine sandy silt	dark brown		fine			
0.2		clay	light brown	firm	fine			
0.0								

File ID of digital photograph(s): S-08D-C008-040-00-17-SPG

Comments:



S-08D-C008-040-00-12

12/3/08

Bottom

Top

Station ID: C008-039 Time On Station: 1024 All measurements are ±0.1 feet

Core Sample ID: S-08D-C008-039-00-12 Northing (NAD 83): 2708573.84 Water Depth (A): 4.8

Logged by: AEM Easting (NAD 83): 815410.39 Length of push core assembly (B): 8.0

Collection Mechanism: Push-Core GPS Accuracy: 2.07 Water surface to top of handle (C): 1.9

Date: 12/3/08 Predicted Tide (ft): \_\_\_\_\_ Length of core (from bottom) (D): 1.2

Time of Collection: 1028 Surveyed elevation (NVGD 29) (E): NA

Survey Type: Pre-Dredge Prog-Dredge Post-Dredge Time Depart Station: 1034 Water surface from surveyed elevation (F): NA

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD):  $E - F$  \_\_\_\_\_

(H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$  \_\_\_\_\_

(z\*) Elevation of visual transition (NVGD):  $H + (\text{distance to visual transition})$  \_\_\_\_\_

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$  \_\_\_\_\_

(I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$  \_\_\_\_\_

(Note if I ≠ I<sub>2</sub> within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.2		Fine sandy silt	dark brown/ black	loose	Fine			
0.2	w/sand → shell → clays	coarse sand	light brown		Fine			
0.0								

File ID of digital photograph(s): S-08D-C008-039-00-12.JPG

Comments:

Large shell and coarse sand @ bottom.



S-08D-C008-039-00-12

12/3/08

Bottom

Top

Station ID: 008-038 Time On Station: 1035 All measurements are ±0.1 feet

Core Sample ID: S-08D-008-038-00-13 Northing (NAD 83): 2709517.71 Water Depth (A): 4.0

Logged by: AEM Easting (NAD 83): 815383.18 Length of push core assembly (B): 8.0

Collection Mechanism: Push-Core GPS Accuracy: 2.35 Water surface to top of handle (C): 2.5

Date: 12/3/08 Predicted Tide (ft): \_\_\_\_\_ Length of core (from bottom) (D): 1.3

Time of Collection: 1035 / 1050 Surveyed elevation (NVGD 29) (E): NA

Survey Type: Pre-Dredge Prog-Dredge Post-Dredge Time Depart Station: 1055 Water surface from surveyed elevation (F): NA

**Calculations for Determination of Z\* Elevation**

(G) Elevation of Water Surface (NVGD):  $E - F$  \_\_\_\_\_

(H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$  \_\_\_\_\_

(Z\*) Elevation of visual transition (NVGD):  $H + (\text{distance to visual transition})$  \_\_\_\_\_

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$  \_\_\_\_\_

(I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$  \_\_\_\_\_

(Note if I ≠ I<sub>2</sub> within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.5 some settling	organic silt sand w/silt	fine sand w/silt	dark brown	loose	fine			
9.50 ft gradual transition		heavy clay	light gray brown	firm	fine			
0.0								

File ID of digital photograph(s): S-08D-008-038-00-13.JPG

Comments: 1 2 attempts; 1st was no good AEM 12/3/08

S-08D-C008-038-00-13

12/3/08

Bottom

Top

Station ID: C008-033 Time On Station: 1058 All measurements are  $\pm 0.1$  feet  
 Core Sample ID: S-08D-C008-033-00-12 Northing (NAD 83): 2708613.29 Water Depth (A): 4.2  
 Logged by: AEM Easting (NAD 83): 815412.90 Length of push core assembly (B): 3.0  
 Collection Mechanism: Push-Core GPS Accuracy: 2.34 Water surface to top of handle (C): 2.4  
 Date: 12/3/08 Predicted Tide (ft): \_\_\_\_\_ Length of core (from bottom) (D): 1.2  
 Time of Collection: 1102 Surveyed elevation (NVGD 29) (E): NA  
 Survey Type: Pre-Dredge Prog-Dredge Post-Dredge Time Depart Station: 1106 Water surface from surveyed elevation (F): NA  
 NWS

**Calculations for Determination of Z\* Elevation**

- (G) Elevation of Water Surface (NVGD):  $E - F$  \_\_\_\_\_  
 (H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$  \_\_\_\_\_  
 (Z\*) Elevation of visual transition (NVGD):  $H +$  (distance to visual transition) \_\_\_\_\_  
 (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$  \_\_\_\_\_  
 (I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$  \_\_\_\_\_  
 (Note if I  $\neq$  I<sub>2</sub> within  $\pm 1.0$  feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.2	organic brackish	silty sand	dark black	loose	small			
0.5		sand/ gravel	light brown	loose	med			
0.0								

File ID of digital photograph(s): S-08D-C008-033-00-12.JPG

Comments:



S-08D-C008-033-00-12

12/3/08

Bottom

Top



Station ID: C008-028 Time On Station: 1108 All measurements are ±0.1 feet  
 Core Sample ID: S-08D-C008-028-0-15 Northing (NAD 83): 2708704.43 Water Depth (A): 4.1  
 Logged by: AEM Easting (NAD 83): 815400.27 Length of push core assembly (B): 8.0  
 Collection Mechanism: Push-Core GPS Accuracy: 3.68 Water surface to top of handle (C): 2.4  
 Date: 12/3/08 Predicted Tide (ft): \_\_\_\_\_ Length of core (from bottom) (D): 1.5  
 Time of Collection: 1112 Surveyed elevation (NVGD 29) (E): NA  
 Survey Type: Pre-Dredge Prog-Dredge Post-Dredge Time Depart Station: 1116 Water surface from surveyed elevation (F): NA  
 AWS

**Calculations for Determination of Z\* Elevation**

- (G) Elevation of Water Surface (NVGD):  $E - F$  \_\_\_\_\_  
 (H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$  \_\_\_\_\_  
 (z\*) Elevation of visual transition (NVGD):  $H + (\text{distance to visual transition})$  \_\_\_\_\_  
 (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$  \_\_\_\_\_  
 (I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$  \_\_\_\_\_  
 (Note if I ≠ I<sub>2</sub> within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.7		silt organic mat.	dark black	loose	small			
0.0		sand + clay	light gray Bottom firm		med			

File ID of digital photograph(s): S-08D-C008-028-00-15.JPG

Comments:



S-08D-C008-028-00-15

12/3/08

Bottom

Top

<b>Battelle</b> <i>The Business of Innovation</i>	Project Name: <b>New Bedford Harbor Environmental Monitoring</b>	Project #: <b>G606422</b>
	Location: <b>New Bedford, MA</b>	Vessel: <b>R/V Gale Force</b>
	Client: <b>USACE NAE</b>	Chief Scientist:

Station ID: <u>008-023</u>	Time On Station: <u>11:19</u>	All measurements are ±0.1 feet
Core Sample ID: <u>S-08D-008-023-00-14</u>	Northing (NAD 83): <u>2708814.59</u>	Water Depth (A): <u>4.3</u>
Logged by: <u>AEM</u>	Easting (NAD 83): <u>815412.09</u>	Length of push core assembly (B): <u>8.0</u>
Collection Mechanism: <u>Push-Core</u>	GPS Accuracy: <u>3.99</u>	Water surface to top of handle (C): <u>2.1</u>
Date: <u>12/3/08</u>	Predicted Tide (ft):	Length of core (from bottom) (D): <u>1.4</u>
	Time of Collection: <u>11:26</u>	Surveyed elevation (NVGD 29) (E): <u>NA</u>
Survey Type: Pre-Dredge Prog-Dredge <u>Post-Dredge</u>	Time Depart Station: <u>11:29</u>	Water surface from surveyed elevation (F): <u>NA</u>

NWS

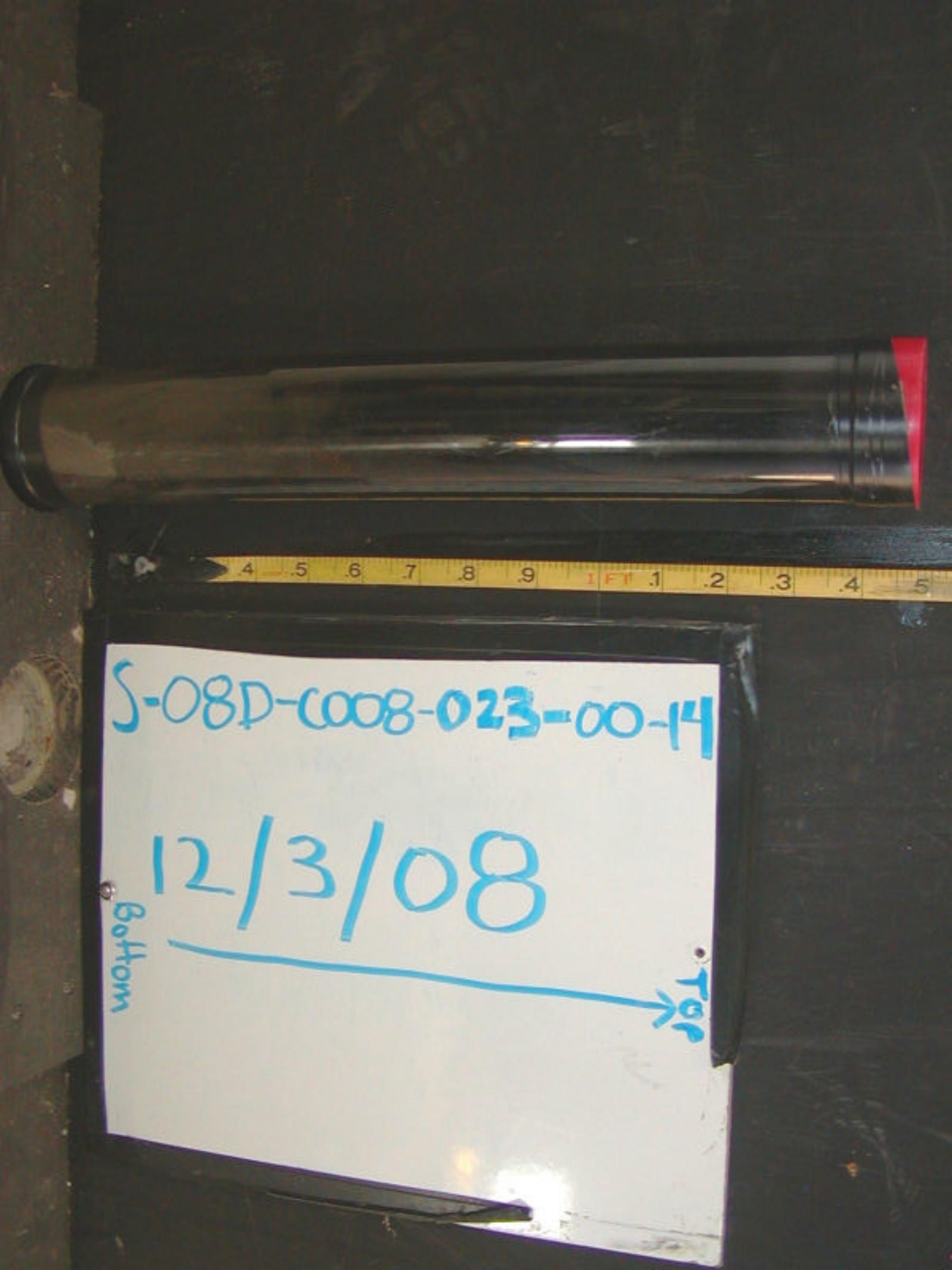
**Calculations for Determination of Z\* Elevation**

- (G) Elevation of Water Surface (NVGD):  $E - F$
  - (H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$
  - (Z\*) Elevation of visual transition (NVGD):  $H + (\text{distance to visual transition})$
  - (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$
  - (I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$
- (Note if I ≠ I<sub>2</sub> within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments

File ID of digital photograph(s): S-08D-008-023-00-14.5PG

Comments:



S-08D-C008-023-00-14

12/3/08

Bottom

Top

Station ID: 0008-016 Time On Station: 1132 All measurements are  $\pm 0.1$  feet  
 Core Sample ID: S-08D-0008-016-00-11 Northing (NAD 83): 2708949.2 Water Depth (A): 4.0  
 Logged by: NEM Easting (NAD 83): 915397.87 Length of push core assembly (B): 8.1  
 Collection Mechanism: Push-Core GPS Accuracy: 3.52 Water surface to top of handle (C): 28  
 Date: 12/3/08 Predicted Tide (ft): \_\_\_\_\_ Length of core (from bottom) (D): 1.1  
 Time of Collection: 1140 Surveyed elevation (NVGD 29) (E): NA  
 Survey Type: Pre-Dredge Prog-Dredge Post-Dredge Time Depart Station: 1145 Water surface from surveyed elevation (F): NA

**Calculations for Determination of Z\* Elevation**

- (G) Elevation of Water Surface (NVGD):  $E - F$
  - (H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$
  - (Z\*) Elevation of visual transition (NVGD):  $H +$  (distance to visual transition)
  - (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$
  - (I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$
- (Note if I  $\neq$  I<sub>2</sub> within  $\pm 1.0$  feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.1		sand	grayish black		med.			
0.9								
0.0		silty clay some sand	not well mixed light brown	firm	fine			

File ID of digital photograph(s): S-08D-0008-016-00-11.JPG

Comments:



S-08D-C008-016-00-11

12/3/08

Bottom

Top



<b>Battelle</b> The Business of Innovation		Project Name: <b>New Bedford Harbor Environmental Monitoring</b>		Project #: <b>G606422</b>	
Location: <b>New Bedford, MA</b>		Client: <b>USACE NAE</b>		Vessel: <b>R/V Gale Force</b>	
Chief Scientist:					
Station ID: <u>0008-010</u>	Time On Station: <u>1151</u>	All measurements are ±0.1 feet			
Core Sample ID: <u>S-08D-0008-010-00-11</u>	Northing (NAD 83): <u>2709128.94</u>	Water Depth (A): <u>3.3</u>			
Logged by: <u>AEM</u>	Easting (NAD 83): <u>815353.74</u>	Length of push core assembly (B): <u>8.0</u>			
Collection Mechanism: <u>Push-Core</u>	GPS Accuracy: <u>2.98</u>	Water surface to top of handle (C): <u>3.3</u>			
Date: <u>12/3/08</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>1.1</u>			
	Time of Collection: <u>1204</u>	Surveyed elevation (NVGD 29) (E): <u>NA</u>			
Survey Type: <u>Pre-Dredge</u> <u>Prog-Dredge</u> <u>Post-Dredge</u>	Time Depart Station: <u>1210</u>	Water surface from surveyed elevation (F): <u>NA</u>			

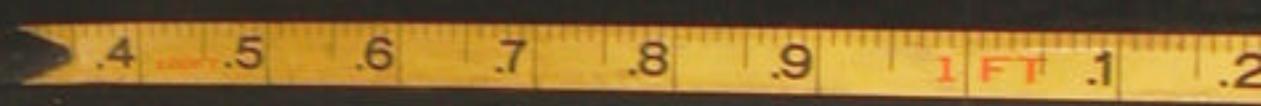
**Calculations for Determination of Z\* Elevation**

- (G) Elevation of Water Surface (NVGD):  $E - F$
  - (H) Elevation of the bottom of the core (NVGD):  $G - (B - C)$
  - (z\*) Elevation of visual transition (NVGD):  $H + (\text{distance to visual transition})$
  - (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD):  $H + D$
  - (I<sub>2</sub>) Elevation of the sediment-water interface as measured from water depth (NVGD):  $G - A$
- (Note if I ≠ I<sub>2</sub> within ± 1.0 feet, discard and resample)

Elevation (NVGD) (I.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.1		→ sand (coarse) ← silt	dark gray black	firm	med-large coarse			uniform color
0.0								

File ID of digital photograph(s): S-08D-0008-010-00-11.JPG

Comments:



S-08D-C008-010-00-11

12/3/08

Bottom

Top



# **OU3 Pilot Cap Samples**

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**Station Log for Benthic Sediment Grab Samples**

**Project Name:** New Bedford Harbor Environmental Monitoring  
**Project Number:** G606422  
**Client:** USACE NAE

**Location:** New Bedford MA  
**Chief Scientist:** Matt Fitzpatrick  
**Vessel:** Gale Force

**Field Measurements**

Survey ID: <b>2008 OU3</b>	Station Depth (ft): <u>8.2</u>	Grab Size: 0.1-m <sup>2</sup>
Station ID: <u>0017</u>	Time on Station: <u>0925</u>	Analyses: PCB
Date: <u>10/6/08</u>	Time off Station: <u>0940</u>	
Recorded by: <u>JMT</u>		
<b>① Attempt #1</b>		
Northing: <del>2686803.33</del> <u>2686800.94</u>		
Easting: <del>817188.6</del> <u>817191.41</u>		
Collection Time: <u>0934</u>		
Sample ID: <u>S-08B-0017-00-03</u>		
Sample Description: <u>Grey f. sand some algal mat tubes some shell husk</u>		

<b>Attempt #2</b>		
Northing:		Grab Size: 0.1-m <sup>2</sup>
Easting:		Analyses: PCB
Collection Time:		
Sample ID:		
Sample Description:		

Additional Comments:

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**Field Measurements**

Survey ID: <b>2008 OU3</b>	Station Depth (ft): <u>10.1</u>	Grab Size: 0.1-m <sup>2</sup>
Station ID: <u>0016</u>	Time on Station: <u>0951</u>	Analyses: PCB
Date: <u>10/6/08</u>	Time off Station: <u>1010</u>	
Recorded by: <u>MRF</u>		
<b>Attempt #1</b>		
Northing: <u>2686837.18</u>		
Easting: <u>817325.12</u>		
Collection Time: <u>0954</u>		
Sample ID: <u>S-08B-0016-00-03</u>		
Sample Description: <u>grey/brown lots of seaweed slipper limpet shells</u>		
<u>Valley location</u>		

<b>Attempt #2</b>		
Northing: <u>2686837.18</u>		Grab Size: 0.1-m <sup>2</sup>
Easting: <u>817325.12</u>		Analyses: PCB
Collection Time: <u>1005</u>		
Sample ID: <u>S-08B-0016-00-03-REP</u>		
Sample Description: <u>seaweed slipper limpets</u>		

Additional Comments: ① repositioned

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**Station Log for Benthic Sediment Grab Samples**

**Project Name:** New Bedford Harbor Environmental Monitoring  
**Project Number:** G606422  
**Client:** USACE NAE

**Location:** New Bedford MA  
**Chief Scientist:** Matt Fitzpatrick  
**Vessel:** Gale Force

**Field Measurements**

Survey ID: <b>2008 OU3</b>	Station Depth (ft): <u>9.1</u>	
Station ID: <u>0U15</u>	Time on Station: <u>1020</u>	
Date:	Time off Station: <u>1031</u>	
Recorded by: <u>MRF</u>		
<b>Attempt #1</b>		Grab Size: 0.1-m <sup>2</sup>
Northing: <u>2686715.37</u>		Analyses: PCB
Easting: <u>817494.27</u>		
Collection Time: <u>1023</u> <u>1026</u>		
Sample ID: <u>S-08B-0U15-00-03</u>		
Sample Description: <u>olive brown silty f. sand, some tubes, shellfish + seaweed</u>		

<b>Attempt #2</b>		Grab Size: 0.1-m <sup>2</sup>
Northing:		Analyses: PCB
Easting:		
Collection Time:		
Sample ID:		
Sample Description:		

Additional Comments:

**Field Measurements**

Survey ID: <b>2008 OU3</b>	Station Depth (ft): <u>9.0</u>	
Station ID: <u>0U14</u>	Time on Station: <u>1043</u>	
Date: <u>10/4/09</u>	Time off Station: <u>1049</u>	
Recorded by: <u>MRF</u>		
<b>Attempt #1</b>		Grab Size: 0.1-m <sup>2</sup>
Northing: <u>2686643.80</u>		Analyses: PCB
Easting: <u>817323.85</u>		
Collection Time: <u>1046</u>		
Sample ID: <u>S-08B-0U14-00-03</u>		
Sample Description: <u>light tan very f. sand seaweed minor shell trash</u>		

<b>Attempt #2</b>		Grab Size: 0.1-m <sup>2</sup>
Northing:		Analyses: PCB
Easting:		
Collection Time:		
Sample ID:		
Sample Description:		

Additional Comments:

**Station Log for Benthic Sediment Grab Samples**

**Project Name:** New Bedford Harbor Environmental Monitoring  
**Project Number:** G606422  
**Client:** USACE NAE

**Location:** New Bedford MA  
**Chief Scientist:** Matt Fitzpatrick  
**Vessel:** Gale Force

**Field Measurements**

Survey ID: <b>2008 OU3</b>	Station Depth (ft): <u>11.1</u>	Grab Size: 0.1-m <sup>2</sup>
Station ID: <u>OU12</u>	Time on Station: <u>1104</u>	Analyses: PCB
Date: <u>10/6/08</u>	Time off Station: <u>1114</u>	
Recorded by: <u>MRF</u>		
<b>Attempt #1</b>		
Northing: <u>2686489.87</u>		
Easting: <u>817490.14</u>		
Collection Time: <u>1108</u>		
Sample ID: <u>S-088-OU12-00-03</u>		
Sample Description: <u>lots of seaweed slipper limpets</u> <u># 1 ft. grey brown very f. silty sand</u>		
<u>Vally location</u>		

<b>Attempt #2</b>		Grab Size: 0.1-m <sup>2</sup>
Northing:		Analyses: PCB
Easting:		
Collection Time:		
Sample ID:		
Sample Description:		

Additional Comments:

**Field Measurements**

Survey ID: <b>2008 OU3</b>	Station Depth (ft): <u>9.1</u>	Grab Size: 0.1-m <sup>2</sup>
Station ID: <u>OU13</u>	Time on Station: <u>1125</u>	Analyses: PCB
Date: <u>10/6/08</u>	Time off Station:	
Recorded by: <u>MRF</u>		
<b>Attempt #1</b>		
Northing: <u>2686395.40</u>		
Easting: <u>817310.32</u>		
Collection Time: <u>1127</u>		
Sample ID: <u>S-088-OU13-00-03</u>		
Sample Description: <u>shell hash thin algae mat a few small tubes</u> <u>very f. silty sandy silt</u>		
<u>more silt than sand. MRF 10/6/08</u>		

<b>Attempt #2</b>		Grab Size: 0.1-m <sup>2</sup>
Northing:		Analyses: PCB
Easting:		
Collection Time:		
Sample ID:		
Sample Description:		

Additional Comments:

**Station Log for Benthic Sediment Grab Samples**

**Project Name:** New Bedford Harbor Environmental Monitoring  
**Project Number:** G606422  
**Client:** USACE NAE

**Location:** New Bedford MA  
**Chief Scientist:** Matt Fitzpatrick  
**Vessel:** *Gale Force*

**Field Measurements**

Survey ID: <b>2008 OU3</b>	Station Depth (ft): <u>9.1</u>	Grab Size: 0.1-m <sup>2</sup>
Station ID: <u>OU11</u>	Time on Station: <u>1142</u>	Analyses: PCB
Date: <u>10/6/08</u>	Time off Station: <u>1158</u>	
Recorded by: <u>MCF</u>		
<u>1st grab NG 2 rak</u>	<b>Attempt #1</b>	
<u>2nd grab VG washout</u>	Northing: <u>2686374.39</u>	
<u>3rd grab washout</u>	Easting: <u>817641.09</u>	
	Collection Time: <u>1146 1148 1151 1153</u>	
	Sample ID: <u>S-08B-OU11-00-03</u>	

Sample Description:  
f-m sand tubases

	<b>Attempt #2</b>	Grab Size: 0.1-m <sup>2</sup>
	Northing:	Analyses: PCB
	Easting:	
	Collection Time:	
	Sample ID:	

Sample Description:

Additional Comments:

**Field Measurements**

Survey ID: <b>2008 OU3</b>	Station Depth (ft): <u>10.9</u>	Grab Size: 0.1-m <sup>2</sup>
Station ID: <u>OU10</u>	Time on Station: <u>12:11</u>	Analyses: PCB
Date: <u>10/6/08</u>	Time off Station: <u>1223</u>	
Recorded by: <u>MRF</u>		
	<b>Attempt #1</b>	
	Northing: <u>2686249.50</u>	
	Easting: <u>817478.51</u>	
	Collection Time: <u>1214</u>	
	Sample ID: <u>S-08B-OU10-00-03</u>	

Sample Description:  
limpets, rats, f. sand brown, seaweed

	<b>Attempt #2</b>	Grab Size: 0.1-m <sup>2</sup>
	Northing:	Analyses: PCB
	Easting:	
	Collection Time:	
	Sample ID:	

Sample Description:

Additional Comments:

**Station Log for Benthic Sediment Grab Samples**

**Project Name:** New Bedford Harbor Environmental Monitoring  
**Project Number:** G606422  
**Client:** USACE NAE

**Location:** New Bedford MA  
**Chief Scientist:** Matt Fitzpatrick  
**Vessel:** Gale Force

**Field Measurements**

Survey ID: **2008 OU3** Station Depth (ft): 10.9  
 Station ID: 0U09 Time on Station: 1245  
 Date: 10/6/08 Time off Station: 1253  
 Recorded by: mrf

**Attempt #1**

Grab Size: 0.1-m<sup>2</sup>

Analyses: PCB  
 Northing: 2686125.16  
 Easting: 817487.92  
 Collection Time: 1247  
 Sample ID: S-08B-0U09-00-03

Sample Description: seaweed skull hash  
light brown f. sand

**Attempt #2**

Grab Size: 0.1-m<sup>2</sup>

Analyses: PCB  
 Northing:  
 Easting:  
 Collection Time:  
 Sample ID:

Sample Description:

Additional Comments:

Collect blanks @ 1305

**Field Measurements**

Survey ID: **2008 OU3** Station Depth (ft): 8.6  
 Station ID: 0U01 Time on Station: 1349  
 Date: 10/6/08 Time off Station: 1405  
 Recorded by:

**Attempt #1**

Grab Size: 0.1-m<sup>2</sup>

Analyses: PCB  
1350 - No all seaweed  
1353 - "  
1356 - No redemys  
 Northing: 2685668.74  
 Easting: 817983.57  
 Collection Time: 1350 1400  
 Sample ID: S-08B-0U01-00-03

Sample Description: light grey tan f. sandy silt w/ pebbles some algae +  
sample from ridge biocrusts

**Attempt #2**

Grab Size: 0.1-m<sup>2</sup>

Analyses: PCB  
 Northing:  
 Easting:  
 Collection Time:  
 Sample ID:

Sample Description:

Additional Comments:

**Station Log for Benthic Sediment Grab Samples**

**Project Name:** New Bedford Harbor Environmental Monitoring  
**Project Number:** G606422  
**Client:** USACE NAE

**Location:** New Bedford MA  
**Chief Scientist:** Matt Fitzpatrick  
**Vessel:** *Gale Force*

**Field Measurements**

Survey ID: <b>2008 OU3</b>	Station Depth (ft): <u>11.0</u>	
Station ID: <u>0U03</u>	Time on Station: <u>1421</u>	
Date: <u>10/6/03</u>	Time off Station: <u>1430</u>	
Recorded by: <u>MRF</u>		
<u>H24-06-0P</u>	<b>Attempt #1</b>	Grab Size: 0.1-m <sup>2</sup>
	Northing: <u>2685852.81</u>	Analyses: PCB
	Easting: <del>817888.21</del> <u>817883.21</u>	
	Collection Time: <u>1424</u> <u>1426</u>	
	Sample ID: <u>S-08B-0U03-00-03</u>	

Sample Description: F. sand  
limpits, worm tubes, shell hash, + seaweed

	<b>Attempt #2</b>	Grab Size: 0.1-m <sup>2</sup>
	Northing:	Analyses: PCB
	Easting:	
	Collection Time:	
	Sample ID:	

Sample Description:

Additional Comments:

**Field Measurements**

Survey ID: <b>2008 OU3</b>	Station Depth (ft): <u>13.2</u>	
Station ID: <u>0U02</u>	Time on Station: <u>1448</u>	
Date: <u>10/6/08</u>	Time off Station: <u>1510</u>	
Recorded by: <u>MRF</u>		
<u>10/6/08</u>	<b>Attempt #1</b>	Grab Size: 0.1-m <sup>2</sup>
	Northing: <u>2685869.99</u>	Analyses: PCB
	Easting: <u>818148.87</u>	
	Collection Time: <u>1449</u>	
	Sample ID: <u>S-08B-0U02-00-03</u>	

Sample Description: F. Sandy silt seaweed  
anoxic small QA Split Collected  
sm shrimp

	<b>Attempt #2</b>	Grab Size: 0.1-m <sup>2</sup>
	Northing:	Analyses: PCB
	Easting:	
	Collection Time:	
	Sample ID:	

Sample Description:

Additional Comments:  
① S/B 10/6/08 MRF

**Station Log for Benthic Sediment Grab Samples**

**Project Name:** New Bedford Harbor Environmental Monitoring  
**Project Number:** G606422  
**Client:** USACE NAE

**Location:** New Bedford MA  
**Chief Scientist:** Matt Fitzpatrick  
**Vessel:** Gale Force

**Field Measurements**

Survey ID: <b>2008 OU3</b>	Station Depth (ft): <u>9.3</u>	
Station ID: <u>0U08</u>	Time on Station: <u>0843</u>	
Date: <u>10/7/08</u>	Time off Station: <u>0904</u>	
Recorded by: <u>MRF</u>		
<u>0851 - NG w/short</u>	<b>Attempt #1</b>	Grab Size: 0.1-m <sup>2</sup>
<u>0852 "</u>	Northing: <u>2686233.99</u>	Analyses: PCB
	Easting: <u>817749.23</u>	
	Collection Time: <u>0851 0852 0857</u>	
	Sample ID: <u>S-08B-0U08-00-03</u>	
Sample Description: <u>dark brown f-m sand w/ pebbles + shell hash</u>		

	<b>Attempt #2</b>	Grab Size: 0.1-m <sup>2</sup>
	Northing:	Analyses: PCB
	Easting:	
	Collection Time:	
	Sample ID:	
Sample Description:		

Additional Comments:

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**Field Measurements**

Survey ID: <b>2008 OU3</b>	Station Depth (ft): <u>11.8</u>	
Station ID: <u>0U06</u>	Time on Station: <u>0911</u>	
Date: <u>10/7/08</u>	Time off Station:	
Recorded by: <u>MRF</u>		
<u>0912 - NG OP</u>	<b>Attempt #1</b>	Grab Size: 0.1-m <sup>2</sup>
<u>0915 "</u>	Northing: <u>2686142.94</u>	Analyses: PCB
<u>0920 - NG-H1</u>	Easting: <u>817983.68</u>	
<u>the same spot</u>	Collection Time: <u>0912 0915 0925</u>	
	Sample ID: <u>S-08B-0U06-00-03</u>	
Sample Description: <u>algae, limpts</u> <u>grey brown f. sandy silt w/ algal mat</u>		

	<b>Attempt #2</b>	Grab Size: 0.1-m <sup>2</sup>
	Northing:	Analyses: PCB
	Easting:	
	Collection Time:	
	Sample ID:	
Sample Description:		

Additional Comments:

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**Station Log for Benthic Sediment Grab Samples**

**Project Name:** New Bedford Harbor Environmental Monitoring  
**Project Number:** G606422  
**Client:** USACE NAE

**Location:** New Bedford MA  
**Chief Scientist:** Matt Fitzpatrick  
**Vessel:** *Gale Force*

**Field Measurements**

Survey ID: <b>2008 OU3</b>	Station Depth (ft): <u>11.7</u>	
Station ID: <u>0U05</u>	Time on Station: <u>0944</u>	
Date: <u>10/7/08</u>	Time off Station: _____	
Recorded by: <u>MRF</u>		
<b>Attempt #1</b>		Grab Size: 0.1-m <sup>2</sup>
Northing: <u>2686187.28</u>		Analyses: PCB
Easting: <u>818195.19</u>		
Collection Time: <u>0945</u>		
Sample ID: <u>S-08B-0U05-00-03</u>		

Sample Description: F-M sand brown tubes + Algal mat

<b>Attempt #2</b>		Grab Size: 0.1-m <sup>2</sup>
Northing:		Analyses: PCB
Easting:		
Collection Time:		
Sample ID:		

Sample Description: \_\_\_\_\_

Additional Comments: \_\_\_\_\_

**Field Measurements**

Survey ID: <b>2008 OU3</b>	Station Depth (ft): <u>12.4</u>	
Station ID: <u>0U04</u>	Time on Station: <u>1008</u>	
Date: <u>10/7/08</u>	Time off Station: _____	
Recorded by: <u>MRF</u>		
<b>Attempt #1</b>		Grab Size: 0.1-m <sup>2</sup> <u>0.04m<sup>2</sup></u>
Northing: <u>2686006.17</u>		Analyses: PCB
Easting: <u>818038.56</u>		
Collection Time: <u>1009</u>		
Sample ID: <u>S-08B-0U04-00-03</u>		

Sample Description: brown/grey very f. sandy silt sea lettuce

<b>Attempt #2</b>		Grab Size: 0.1-m <sup>2</sup> <u>0.04m<sup>2</sup></u>
Northing:		Analyses: PCB
Easting:		
Collection Time:		
Sample ID:		

Sample Description: \_\_\_\_\_

Additional Comments: \_\_\_\_\_

**Station Log for Benthic Sediment Grab Samples**

**Project Name:** New Bedford Harbor Environmental Monitoring  
**Project Number:** G606422  
**Client:** USACE NAE

**Location:** New Bedford MA  
**Chief Scientist:** Matt Fitzpatrick  
**Vessel:** Gale Force

**Field Measurements**

Survey ID: <b>2008 OU3</b>	Station Depth (ft): <u>9.3</u>	Grab Size: 0.1-m <sup>2</sup> <u>(0.04m<sup>2</sup>)</u>
Station ID: <u>0007</u>	Time on Station: <u>1041</u>	Analyses: PCB
Date: <u>10/7/08</u>	Time off Station: <u>1648</u>	
Recorded by: <u>MRF</u>		
<b>Attempt #1</b>		
Northing: <u>2686017.39</u>		
Easting: <u>817778.95</u>		
Collection Time: <u>1043</u>		
Sample ID: <u>S-08B-0007-00-03</u>		

Sample Description:  
Grey/brown w/ algal mat sloped on 1 side  
P. sandy silt

<b>Attempt #2</b>		Grab Size: 0.1-m <sup>2</sup>
Northing:		Analyses: PCB
Easting:		
Collection Time:		
Sample ID:		

Sample Description:

Additional Comments:

**Field Measurements**

Survey ID: <b>2008 OU3</b>	Station Depth (ft): _____	Grab Size: 0.1-m <sup>2</sup>
Station ID: _____	Time on Station: _____	Analyses: PCB
Date: _____	Time off Station: _____	
Recorded by: _____		
<b>Attempt #1</b>		
Northing:		
Easting:		
Collection Time:		
Sample ID:		

Sample Description:

<b>Attempt #2</b>		Grab Size: 0.1-m <sup>2</sup>
Northing:		Analyses: PCB
Easting:		
Collection Time:		
Sample ID:		

Sample Description:

Additional Comments: