



Boring	NBPA-NT-B1
Page	1 of 1
Date	1-Apr-19
Weather	Mostly sunny, 55 degrees, NW 5-10
Groundwater Depth	N/A feet
Total Depth of Hole	30' feet
Depth to Cored Rock	25' feet
Project Name	New Bedford Port Authority, NT
Job No	
Driller	Hardiman, Tom JR, Tony
Logged By	M.Campagnone, P.E. FOTH

Elev. MLLW feet	Depth feet	Sample					Graphic Log	Soil & Rock Descriptions
		Type & No.	Blows per 6"	Uncorr (Corr) Blows	Pen. inch	Rec. inch		
-8	0' To 2'	S-1	WR WR WR WR	WR	24"	2"	S1 - Very soft, black, organic silt, wet, trace sand, trace shell (OL) <i>Drive and wash 3" casing tip to 5'</i>	
-13'	5' to 7'	S-2	WR WR WR	WR	24"	24"		S2 - Very soft, black, organic silt, wet, trace shell, trace sand (OL) <i>Drive and wash 3" casing tip to 10'</i>
-18'	10' to 12'	S-3	WR WR WR	WR	24"	24"	S3 - Very soft, black/grey, organic silt, wet, trace shell, trace sand (OL) <i>Drive and wash 3" casing tip to 15'</i>	
-23'	15' to 17'	S-4	2 4 9 7	13	24"	4"	S4 - Medium dense, grey, fine silty sand, wet, few silt, trace gravel (SM) <i>Material change @ ±14'</i> <i>Drive and wash 3" casing tip to 20'</i>	
-28'	20' to 22'	S-5	10 6 7 8	13	24"	12"	S5 - Medium dense, brown, fine to coarse sand, trace silt, trace gravel (SW) <i>Refusal at 25' set up NX core</i>	
To	To			RQD	Pen	T-Rec.		
-34	26	Run-1	5 Min	47%	60"	43"	Black and grey gneiss, very strong, slightly decomposed, competent, moderately fractured Biotite gneiss near New Bedford (Proterozoic Z)(Zgn) "USGS Bedrock Geologic Map of Mass. Pub 1983" Total recovery = 43". Solid Core Recovery = 30.75". Modified Core Recovery = 28.25" RQD = (28.25"/60") = 47% Poor	
-35	27		4 Min					
-36	28		2 Min					
-37	29		6 Min					
-38	30		5 Min					

Notes: Drill barge sited with GPS using Hypack. As-built locations (X=814332, Y=2696518)
 Drill and wash w/SPT and sampling 5' intervals.
 SPT done with 2" split spoon sampler and safety hammer with cathead
 Name (Density, Color, Classification), Moisture, Secondary grain Size, (USC Group Symbol)

Key: Fines Content: trace (tr) = <5%, little (lt) = 6-15%, few = 16-30%, some (sm) = 31-49%
 Cohesionless Soil Density (blows/ft): very loose (vl) = 0-4, loose (l) = 5-10, medium dense (md) = 11-29, dense (d) = 30-49, very dense (vd) = 50+
 Cohesive Soil Consistency (blows/ft): very soft (vs) <2, soft (s) = 3 - 4, medium (f) = 5-8, stiff (st) = 9-15, very stiff (vs) = 16-30, hard (h) >30
 Color: br = brown, gy = grey, gn = green, yl = yellow, ol = olive, og = orange, bl = black



Boring	NBPA-NT-B2
Page	1 of 1
Date	25-Mar-19
Weather	Overcast, 48 degrees, N 0-5, calm
Groundwater Depth	N/A feet
Total Depth of Hole	46' feet
Depth to Cored Rock	36' feet
Project Name	New Bedford Port Authority, NT
Job No	
Driller	Hardiman, Tom JR, Tony
Logged By	C. Rocha, B.Foley

Elev. MLLW feet	Depth feet	Sample					Graphic Log	Soil & Rock Descriptions
		Type & No.	Blows per 6"	Uncorr (Corr) Blows	Pen. inch	Rec. inch		
-8'	0' To	S-1	WR	WR	24"	0"	S1 - No recovery, Black organic silt on exterior of sampler <i>Drive and wash 3" casing tip to 5'</i>	
-10'	2'		WR					
-13'	5' to		WR					
-15'	7'	S-2	WR	WR	24"	8"	S2 - Very soft, black, organic silt, wet, trace shell, trace sand (OL) <i>Drive and wash 3" casing tip to 10'</i>	
-18'	10' to		WR					
-20'	12'		WR					
-23'	15' to	S-3	WR	WR	24"	24"	S3 - Very soft, black/grey, organic silt, wet, trace shell, trace sand (OL) <i>Drive and wash 3" casing tip to 15'</i>	
-25'	17'		WR					
-28'	20' to		WR					
-30'	22'	S-4	5	20	24"	12"	S4 - Very soft, black/grey, organic silt, wet, trace shell, trace sand (OL) <i>Material change ±18'</i> <i>Drive and wash 3" casing tip to 20'</i>	
-33'	25' to		7					
-35'	27'		13					
-38'	30' to	S-5	6	8	24"	12"	S5 - Medium dense, brown/grey, fine to coarse sand, wet, trace silt, trace gravel, trace shell (SW) <i>Drive and wash 3" casing tip to 25'</i>	
-40'	32'		4					
-43'	35' to		4					
-45'	37'	S-6	5				S6 - Loose, brown, fine to medium sand, wet, trace silt, little gravel (SW) <i>Drive and wash 3" casing tip to 30'</i>	
-48'	40'		25	45	24"	4"		
-49'	41'		4					
-50'	42'	S-7	30				S7 - Dense, brown, fine to coarse sand, wet, trace silt, trace gravel, fractured rock (SW) <i>Drive and wash 3" casing tip to 35'</i>	
-51'	43'		15					
-52'	44'		15					
-53'	45'	S-8	20	Ref	9"	8"	S8 - Dense, brown, fine to coarse sand, wet, trace silt, trace gravel, fractured rock (SW) <i>Refusal at 36' set up NX core</i>	
-54'	46'		100/3"					
To	To		Ref					
-45'	37'			RQD	Pen	T-Rec.		
-45'	37'	Run-1	3 Min	72%	60"	57"	<i>Black and grey gneiss, very strong, slightly decomposed, competent, slightly fractured</i>	
-46'	38'		3 Min				Biotite gneiss near New Bedford (Proterozoic Z)(Zgn) "USGS Bedrock Geologic Map of Mass. Pub 1983"	
-47'	39'		3 Min				Total recovery = 57", Solid Core Recovery = 49", Modified Core Recovery = 43"	
-48'	40'		4 Min				RQD = (43"/60") = 72% Fair	
-49'	41'		4 Min					
-50'	42'	Run-2	3 Min	54%	60"	43.5"	<i>Black and grey gneiss, very strong, slightly decomposed, competent, slightly fractured</i>	
-51'	43'		3 Min				Biotite gneiss near New Bedford (Proterozoic Z)(Zgn) "USGS Bedrock Geologic Map of Mass. Pub 1983"	
-52'	44'		1 Min				Total recovery = 43.5", Solid Core Recovery = 36", Modified Core Recovery = 32.5"	
-53'	45'		3 Min				RQD = (32.5"/60") = 54% Fair	
-54'	46'		3 Min					

Notes: Drill barge sited with GPS using Hypack. As-built locations (X=814331, Y=2696582)
 Drill and wash w/SPT and sampling 5' intervals.
 SPT done with 2" split spoon sampler and safety hammer with cathead
 Name (Density, Color, Classification), Moisture, Secondary grain Size, (USC Group Symbol)

Key: Fines Content: trace (tr) = <5%, little (lt) = 6-15%, few = 16-30%, some (sm) = 31-49%
 Cohesionless Soil Density (blows/ft): very loose (vl) = 0-4, loose (l) = 5-10, medium dense (md) = 11-29, dense (d) = 30-49, very dense (vd) = 50+
 Cohesive Soil Consistency (blows/ft): very soft (vs) <2, soft (s) = 3 - 4, medium (f) = 5-8, stiff (st) = 9-15, very stiff (vs) = 16-30, hard (h) >30
 Color: br = brown, gy = grey, gn = green, yl = yellow, ol = olive, og = orange, bl = black



Boring	NBPA-NT-B3
Page	1 of 1
Date	26-Mar-19
Weather	Sunny 37 degrees, wind 5-10, calm
Groundwater Depth	N/A feet
Total Depth of Hole	40' feet
Depth to Cored Rock	35' feet
Project Name	New Bedford Port Authority, NT
Job No	
Driller	Hardiman, Tom JR, Tony
Logged By	C. Rocha

Elev. MLLW feet	Depth feet	Sample					Graphic Log	Soil & Rock Descriptions
		Type & No.	Blows per 6"	Uncorr (Corr) Blows	Pen. inch	Rec. inch		
-11'	0' To -13'	S-1	WR WR WR WR	WR	24"	18"	S1 - Very soft, black, organic silt, wet, trace sand trace shell (OL) <i>Drive and wash 3" casing tip to 5'</i>	
-16'	5' to -18'	S-2	WR WR WR	WR	24"	24"		S2 - Very soft, black/grey, organic silt, wet, trace sand, trace shell (OL) <i>Drive and wash 3" casing tip to 10'</i>
-21'	10' to -23'	S-3	WR WR WR	WR	24"	24"	S3 - Very soft, black/grey, organic silt, wet, trace shell, trace sand (OL) <i>Drive and wash 3" casing tip to 15'</i>	
-26'	15' to -28'	S-4	2 3 2 5	5	24"	10"	S4 - Loose, grey, fine to medium sand, wet, trace silt, trace gravel (SW) <i>Material change @ ±13'</i> <i>Drive and wash 3" casing tip to 20'</i>	
-31'	20' to -33'	S-5	3 5 6 6	11	24"	22"	S5 - Medium dense, brown, medium to fine sand, wet, trace silt, trace gravel (SW) <i>Drive and wash 3" casing tip to 25'</i>	
-36'	25' to -38'	S-6	3 8 8 12	16	24"	8"	S6 - Medium dense, brown, fine to medium sand, wet, trace silt, trace gravel (SW) <i>Drive and wash 3" casing tip to 30'</i>	
-41'	30' to -43'	S-7	7 13 14 12	27	24"	9"	S7 - Medium dense, grey, fine sand, wet, trace silt, trace gravel (SP) <i>Refusal at 35' set up NX core</i>	
To	To			RQD	Pen	T-Rec.		
-47'	36	Run-1	4 Min	48%	60"	46.5"	Black and grey gneiss, very strong, slightly decomposed, competent, moderately fractured Biotite gneiss near New Bedford (Proterozoic Z)(Zgn) "USGS Bedrock Geologic Map of Mass. Pub 1983" Total recovery = 46.5". Solid Core Recovery = 33". Modified Core Recovery = 28.75" RQD = (43'/60") = 48% Poor	
-48'	37		5 Min					
-49'	38		3 Min					
-50'	39		4 Min					
-51'	40		6 Min					

Notes: Drill barge sited with GPS using Hypack. As-built locations (X=814391, Y=2696679)
 Drill and wash w/SPT and sampling 5' intervals.
 SPT done with 2" split spoon sampler and safety hammer with cathead
 Name (Density, Color, Classification), Moisture, Secondary grain Size, (USC Group Symbol)

Key: Fines Content: trace (tr) = <5%, little (lt) = 6-15%, few = 16-30%, some (sm) = 31-49%
 Cohesionless Soil Density (blows/ft): very loose (vl) = 0-4, loose (l) = 5-10, medium dense (md) = 11-29, dense (d) = 30-49, very dense (vd) = 50+
 Cohesive Soil Consistency (blows/ft): very soft (vs) <2, soft (s) = 3 - 4, medium (f) = 5-8, stiff (st) = 9-15, very stiff (vs) = 16-30, hard (h) >30
 Color: br = brown, gy = grey, gn = green, yl = yellow, ol = olive, og = orange, bl = black



Boring	NBPA-NT-B4
Page	1 of 2
Date	3/18/2019 & 3/19/19
Weather	Sunny, 35 degrees, NW 5-10, calm
Groundwater Depth	N/A feet
Total Depth of Hole	59' feet
Depth to Cored Rock	49' feet
Project Name	New Bedford Port Authority, NT
Job No	
Driller	Hardiman, Tom JR, Tony
Logged By	M.Campagnone, P.E. FOTH, Courtney Rocha

Elev. -11 MLLW feet	Depth feet	Sample					Graphic Log	Soil & Rock Descriptions
		Type & No.	Blows per 6"	Uncorr (Corr) Blows	Pen. inch	Rec. inch		
-11' to -13'	0' To 2'	S-1	WR WR WR WR	WR	24"	9"	S1 - Very soft, black, organic silt, wet, trace shell (OL) <i>Drive and wash 3" casing tip to 5'</i>	
-16' to -18'	5' to 7'	S-2	WR WR WR	WR	24"	16"	S2 - Very soft, black/grey, organic silt, wet, trace shell, little sand (OL) <i>Drive and wash 3" casing tip to 10'</i>	
-21' to -23'	10' to 12'	S-3	WR WR WR	WR	24"	19"	S3 - Very soft, black/grey, organic silt, wet, trace shell, little sand (OL) <i>Drive and wash 3" casing tip to 15'</i>	
-26' to -28'	15' to 17'	S-4	7 10 8 10	18	24"	12"	S4 - Medium dense, grey, medium to fine sand, trace silt, trace shell (SW) <i>Material change @ ±14'</i> <i>Drive and wash 3" casing tip to 20'</i>	
-31' to -33'	20' to 22'	S-5	2 3 6 4	9	24"	15"	S5 - Loose, brown/gray, very fine silty sand, wet, some silt (SM) <i>Drive and wash 3" casing tip to 25'</i>	
-36' to -38'	25' to 27'	S-6	2 4 7 8	11	24"	16"	S6 - Medium dense, brown/gray, very fine silty sand, wet, some silt (SM) <i>took bag sample</i> <i>Drive and wash 3" casing tip to 30'</i>	
-41' to -43'	30' to 32'	S-7	3 6 7 9	13	24"	10"	S7 - Medium dense, brown, very fine silty sand, wet, little silt, trace gravel (SM) <i>Drive and wash 3" casing tip to 35'</i>	
-46' to -48'	35' to 37'	S-8	7 4 5 9	9	24"	6"	S8 - Loose, brown, medium to fine sand, wet, trace silt, trace gravel (SW) <i>Drive and wash 3" casing tip to 40'</i>	
-51' to -53'	40' to 42'	S-9	3 4 2 2	6	24"	5"	S9 - Loose, brown, fine to coarse sand, wet, trace silt, trace gravel (SW) <i>Drive and wash 3" casing tip to 45'</i>	
-56' to -58'	45' to 47'	S-10	7 13 11	20	24"	8"	S10 - Medium dense, brown, fine to coarse sand, wet, trace silt, trace gravel (SW) <i>End day 3/18/19 continue 3/19/19</i> <i>Drive and wash 3" casing tip to 49'</i> <i>Driller reports top of rock at 49'</i>	
To -61'	To 50'	R-1	2.5min	RQD 69"	Pen 60"	T-Rec. 52.25"		
-62'	51'		3min				<i>Black and grey gneiss, very strong, slightly decomposed, competent, slightly fractured</i>	
-63'	52'		5.5min				<i>Biotite gneiss near New Bedford (Proterozoic Z)(Zgn) "USGS Bedrock Geologic Map of Mass. Pub 1983"</i>	
-64'	53'		5min				<i>Total recovery = 52.25", Solid Core Recovery = 42.75", Modified Core Recovery = 41.25"</i>	
-65'	54'		4min				<i>RQD = (41.25"/60") = 69% Fair</i>	

Notes: Drill barge sited with GPS using Hypack. As-built locations (X=814357, Y=2696771)
 Drill and wash w/SPT and sampling 5' intervals.
 SPT done with 2" split spoon sampler and safety hammer with cathead
 Name (Density, Color, Classification), Moisture, Secondary grain Size, (USC Group Symbol)

Key: Fines Content: trace (tr) = <5%, little (lt) = 6-15%, few = 16-30%, some (sm) = 31-49%
 Cohesionless Soil Density (blows/ft): very loose (vl) = 0-4, loose (l) = 5-10, medium dense (md) = 11-29, dense (d) = 30-49, very dense (vd) = 50+
 Cohesive Soil Consistency (blows/ft): very soft (vs) <2, soft (s) = 3 - 4, medium (f) = 5-8, stiff (st) = 9-15, very stiff (vs) = 16-30, hard (h) >30
 Color: br = brown, gy = grey, gn = green, yl = yellow, ol = olive, og = orange, bl = black



Boring	NBPA-NT-B5
Page	1 of 2
Date	19-Mar-19
Weather	Sunny, 35 degrees, NW 5-10, calm
Groundwater Depth	N/A feet
Total Depth of Hole	59' feet
Depth to Cored Rock	49' feet
Project Name	New Bedford Port Authority, NT
Job No	
Driller	Hardiman, Tom JR, Tony
Logged By	Courtney Rocha

Elev. -10 MLLW feet	Depth feet	Sample					Graphic Log	Soil & Rock Descriptions
		Type & No.	Blows per 6"	Uncorr (Corr) Blows	Pen. inch	Rec. inch		
-10' to -12'	0' To 2'	S-1	WR WR WR WR	WR	24"	15"	S1 - Very soft, black, organic silt, wet, trace shell (OL) <i>Drive and wash 3" casing tip to 5'</i>	
-15' to -17'	5' to 7'	S-2	WR WR WR	WR	24"	16"		S2 - Very soft, black/grey, organic silt, wet, trace shell (OL) <i>Drive and wash 3" casing tip to 10'</i>
-20' to -22'	10' to 12'	S-3	WR WR WR	WR	24"	24"	S3 - Very soft, black/grey, organic silt, wet, trace shell, trace sand (OL) <i>Drive and wash 3" casing tip to 15'</i>	
-25' to -27'	15' to 17'	S-4	WR WR 3	WR	24"	24"	S4 - Loose, grey/black, fine silty sand, wet, little silt, trace shell (SM) <i>Drive and wash 3" casing tip to 20'</i>	
-30' to -32'	20' to 22'	S-5	7 10 9 12	19	24"	24"	S5 - Medium dense, grey, very silty fine sand, wet, little silt (SM) <i>Drive and wash 3" casing tip to 25'</i>	
-35' to -37'	25' to 27'	S-6	8 12 12 12	24	24"	12"	S6 - Medium dense, olive/grey, very fine silty sand, wet, little silt (SM) <i>Drive and wash 3" casing tip to 30'</i>	
-40' to -42'	30' to 32'	S-7	7 5 5 9	10	24"	14"	S7 - Loose, brown, fine to medium sand, wet, trace silt, trace gravel (SW) <i>Drive and wash 3" casing tip to 35'</i> <i>End day, continue 3/20/19</i>	
-45' to -47'	35' to 37'	S-8	18 20 35 40	55	24"	18"	S8 - Very dense, brown, fine to medium sand, moist, trace silt, trace shell (SW) <i>Drive and wash 3" casing tip to 40'</i>	
-50' to -52'	40' to 42'	S-9	29 36 35 19	71	24"	6"	S9 - Very dense, brown, fine to coarse sand, wet, trace silt, trace gravel (SW) <i>Drive and wash 3" casing tip to 45'</i>	
-55' to -57'	45' to 47'	S-10	24 19 16 15	35	24"	10"	S10 - Dense, grey, fine sand, wet, trace silt, trace gravel (SP) <i>Drive and wash 3" casing tip to 49'</i> <i>Driller reports top of rock at 49'</i>	
-60' to -64'	50' to 54'	R-1	4min 4min 6min 4min 5min	RQD 87%	Pen 60"	T-Rec. 54"	Black and grey gneiss, very strong, slightly decomposed, competent, slightly fractured Biotite gneiss near New Bedford (Proterozoic Z)(Zgn) "USGS Bedrock Geologic Map of Mass. Pub 1983" Total recovery = 55", Solid Core Recovery = 52", Modified Core Recovery = 52" RQD = (52"/60") = 87% Good	

Notes: Drill barge sited with GPS using Hypack. As-built locations (X=814391, Y=2696884)
 Drill and wash w/SPT and sampling 5' intervals.
 SPT done with 2" split spoon sampler and safety hammer with cathead
 Name (Density, Color, Classification), Moisture, Secondary grain Size, (USC Group Symbol)

Key: Fines Content: trace (tr) = <5%, little (lt) = 6-15%, few = 16-30%, some (sm) = 31-49%
 Cohesionless Soil Density (blows/ft): very loose (vl) = 0-4, loose (l) = 5-10, medium dense (md) = 11-29, dense (d) = 30-49, very dense (vd) = 50+
 Cohesive Soil Consistency (blows/ft): very soft (vs) <2, soft (s) = 3 - 4, medium (f) = 5-8, stiff (st) = 9-15, very stiff (vs) = 16-30, hard (h) >30
 Color: br = brown, gy = grey, gn = green, yl = yellow, ol = olive, og = orange, bl = black



Boring	NBPA-NT-B5
Page	2 of 2
Date	20-Mar-19
Weather	Sunny, 35 degrees, NW 5-10, calm
Groundwater Depth	N/A feet
Total Depth of Hole	59' feet
Depth to Cored Rock	49' feet
Project Name	New Bedford Port Authority, NT
Job No	
Driller	Hardiman, Tom JR, Tony
Logged By	Courtney Rocha

Elev. MLLW feet	Depth feet	Sample					Graphic Log	Soil & Rock Descriptions
		Type & No.	Blows per 6"	Uncorr (Corr) Blows	Pen. inch	Rec. (Total) inch		
-10								
-65	55	R-2	4min	RQD	60"	58"		Black and grey gneiss, very strong, slightly decomposed, competent, slightly fractured
-66	56		4min	92%				Biotite gneiss near New Bedford (Proterozoic Z) "USGS Bedrock Geologic Map of Mass. Pub 1983"
-67	57		5min					Total recovery = 56.75", Solid Core Recovery = 55", Modified Core Recovery = 55"
-68	58		5min					RQD = (55'/60") = 92% Excellent
-69	59		5min					

Notes: Drill barge sited with GPS using Hypack. As-built locations (X=814391, Y=2696884)
 Drill and wash w/SPT and sampling 5' intervals.
 SPT done with 2" split spoon sampler and safety hammer with cathead

Key: Name (Density, Color, Classification), Moisture, Secondary grain Size, (USC Group Symbol)
 Fines Content: trace (tr) = <5%, little (lt) = 6-15%, few = 16-30%, some (sm) = 31-49%
 Cohesionalless Soil Density (blows/ft): very loose (vl) = 0-4, loose (l) = 5-10, medium dense (md) = 11-29, dense (d) = 30-49 , very dense (vd) = 50+
 Cohesive Soil Consistency (bows/ft): very soft (vs) <2, soft (s) = 3 - 4 , medium (f) = 5-8 , stiff (st) = 9-15, very stiff (vs) = 16-30, hard (h) >30
 Color: br = brown, gy = grey, gn = green, yl = yellow, ol = olive, og = orange, bl = black



Boring	NBPA-NT-B6
Page	1 of 2
Date	21-Mar-19
Weather	Sunny, 35 degrees, wind 5-15, calm
Groundwater Depth	0 feet
Total Depth of Hole	60' feet
Depth to Cored Rock	50' feet
Project Name	New Bedford Port Authority, NT
Job No	
Driller	Hardiman, Tom JR, Tony
Logged By	Courtney Rocha

Elev. MLLW feet	Depth feet	Sample					Graphic Log	Soil & Rock Descriptions
		Type & No.	Blows per 6"	Uncorr (Corr) Blows	Pen. inch	Rec. inch		
-9'	0' To	S-1	WR	WR	24"	24"		S1 - Very soft, black, organic silt, wet, trace sand, trace shell (OL) <i>Drive and wash 3" casing tip to 5'</i>
-11'	2'		WR					
-14'	5' to		WR					
-16'	7'	S-2	WR	WR	24"	24"		S2 - Very soft, black/grey, organic silt, wet, trace sand, trace shell (OL) <i>Drive and wash 3" casing tip to 10'</i>
-19'	10' to		WR					
-21'	12'		WR					
-24'	15' to	S-3	WR	WR	24"	24"		S3 - Very soft, black/grey, organic silt, wet, trace sand, trace shell (OL) <i>Drive and wash 3" casing tip to 15'</i>
-26'	17'		WR					
-29'	20' to		WR					
-31'	22'	S-4	8	24	24"	24"		S4 - Very soft, black/grey, organic silt, wet, trace sand, trace shell (OL) <i>Drive and wash 3" casing tip to 20'</i> <i>Material change @ ±19'</i>
-34'	25' to		15					
-36'	27'		9					
-39'	30' to	S-5	9	24	24"	24"		S5 - Medium dense, grey, medium sand, wet, trace silt, trace gravel (SP) <i>Drive and wash 3" casing tip to 25'</i>
-41'	32'		3					
-44'	35' to		6					
-46'	37'	S-6	5	9	24"	18"		S6 - Loose, grey, fine to medium sand, wet, trace silt, trace gravel (SW) <i>Drive and wash 3" casing tip to 30'</i>
-49'	40' to		3					
-51'	42'		6					
-54'	45' to	S-7	2	5	24"	18"		S7 - Loose, grey, fine to medium sand, wet, trace silt, trace gravel (SW) <i>Drive and wash 3" casing tip to 35'</i>
-56'	47'		3					
To	To		4					
-60'	51'	S-8	2	7	24"	2"		S8 - Loose, brown, medium to coarse sand, wet, trace silt, trace gravel (SW) <i>Drive and wash 3" casing tip to 40'</i>
-61'	52'		3					
-62'	53'		3					
-63'	54'		3					
-64'	55'	S-9	4	10	24"	6"		S9 - Medium dense, brown, fine to coarse sand, wet, trace silt, trace gravel (SW) <i>Drive and wash 3" casing tip to 45'</i>
To	To		7					
-60'	51'		10					
-61'	52'		10					
-62'	53'	S-10	10	15	24"	8"		S10 - Medium dense, brown, fine to coarse sand, wet, trace silt, trace gravel (SW) <i>Drive and wash 3" casing tip to 50'</i> <i>Driller reports top of rock at 50"</i>
-63'	54'		9					
-64'	55'		12					
To	To		12					
-60'	51'	R-1	4 Min	72%	60"	58.5"		Black and grey gneiss, very strong, slightly decomposed, competent, slightly fractured Biotite gneiss near New Bedford (Proterozoic Z)(Zgn) "USGS Bedrock Geologic Map of Mass. Pub 1983" Total recovery = 58.5". Solid Core Recovery = 42.75", Modified Core Recovery = 42.75" RQD = (42.75"/60") = 72% Fair
-61'	52'		4 Min					
-62'	53'		5 Min					
-63'	54'		5.5 Min					
-64'	55'	5 Min						

Notes: Drill barge sited with GPS using Hypack. As-built locations (X=814360, Y=2696977)
 Drill and wash w/SPT and sampling 5' intervals.
 SPT done with 2" split spoon sampler and safety hammer with cathead
 Name (Density, Color, Classification), Moisture, Secondary grain Size, (USC Group Symbol)

Key: Fines Content: trace (tr) = <5%, little (lt) = 6-15%, few = 16-30%, some (sm) = 31-49%
 Cohesionless Soil Density (blows/ft): very loose (vl) = 0-4, loose (l) = 5-10, medium dense (md) = 11-29, dense (d) = 30-49, very dense (vd) = 50+
 Cohesive Soil Consistency (blows/ft): very soft (vs) <2, soft (s) = 3 - 4, medium (f) = 5-8, stiff (st) = 9-15, very stiff (vs) = 16-30, hard (h) >30
 Color: br = brown, gy = grey, gn = green, yl = yellow, ol = olive, og = orange, bl = black



Boring		NBPA-NT-B6
Page		2 of 2
Date		21-Mar-19
Weather		Sunny, 35 degrees, wind 5-15, calm
Groundwater Depth	0 feet	Project Name
Total Depth of Hole	60' feet	Job No
Depth to Cored Rock	50' feet	Driller
Logged By		Courtney Rocha

Elev. MLLW feet	Depth feet	Sample					Graphic Log	Soil & Rock Descriptions
		Type & No.	Blows per 6"	Uncorr (Corr) Blows	Pen. inch	Rec. (Total) inch		
-9								
-65	56	R-2	4 Min	84%	60"	50.5"		<i>Black and grey gneiss, very strong, slightly decomposed, competent, slightly fractured</i>
-66	57		4 Min	RQD				Biotite gneiss near New Bedford (Proterozoic Z)(Zgn) "USGS Bedrock Geologic Map of Mass. Pub 1983"
-67	58		6 Min					Total recovery = 57.5". Solid Core Recovery = 53.5", Modified Core Recovery = 50.5"
-68	59		5.5 Min					RQD = (50.5'/60") = 84% Good
-69	60		5 Min					

Notes: Drill barge sited with GPS using Hypack. As-built locations (X=814360, Y=2696977)
 Drill and wash w/SPT and sampling 5' intervals.
 SPT done with 2" split spoon sampler and safety hammer with cathead
 Name (Density, Color, Classification), Moisture, Secondary grain Size, (USC Group Symbol)

Key: Fines Content: trace (tr) = <5%, little (lt) = 6-15%, few = 16-30%, some (sm) = 31-49%
 Cohesionless Soil Density (blows/ft): very loose (vl) = 0-4, loose (l) = 5-10, medium dense (md) = 11-29, dense (d) = 30-49, very dense (vd) = 50+
 Cohesive Soil Consistency (blows/ft): very soft (vs) <2, soft (s) = 3 - 4, medium (f) = 5-8, stiff (st) = 9-15, very stiff (vs) = 16-30, hard (h) >30
 Color: br = brown, gy = grey, gn = green, yl = yellow, ol = olive, og = orange, bl = black



Boring	NBPA-NT-B7
Page	1 of 1
Date	26-Mar-19
Weather	Sunny, 35 degrees, wind 5-10, calm
Groundwater Depth	0 feet
Total Depth of Hole	50' feet
Depth to Cored Rock	45' feet
Project Name	New Bedford Port Authority, NT
Job No	
Driller	Hardiman, Tom JR, Tony
Logged By	Courtney Rocha

Elev. MLLW feet	Depth feet	Sample					Graphic Log	Soil & Rock Descriptions
		Type & No.	Blows per 6"	Uncorr (Corr) Blows	Pen. inch	Rec. inch		
-9'	0' To	S-1	WR	WR	24"	6"		S1 - Very soft, black, organic silt, wet, trace sand, trace shell (OL) <i>Drive and wash 3" casing tip to 5'</i>
-11'	2'		WR					
-14'	5' to		WR					
-16'	7'	S-2	WR	WR	24"	4"		S2 - Very soft, black/grey, organic silt, wet, trace sand, trace shell (OL) <i>Drive and wash 3" casing tip to 10'</i>
-19'	10' to		WR					
-21'	12'		WR					
-24'	15' to	S-3	WR	WR	24"	24"		S3 - Very soft, black/grey, organic silt, wet, trace sand, trace shell (OL) <i>Drive and wash 3" casing tip to 15'</i>
-26'	17'		WR					
-29'	20' to		WR					
-31'	22'	S-4	3	8	24"	18"		S4 - Very soft, black/grey, organic silt, wet, trace sand, trace shell (OL) <i>Drive and wash 3" casing tip to 20'</i> <i>Material change @ ±18'</i>
-34'	25' to		5					
-36'	27'		6					
-39'	30' to	S-5	2	3	24"	18"		S5 - Loose, grey, fine sand, wet, trace silt, trace gravel (SP) <i>Drive and wash 3" casing tip to 25'</i>
-41'	32'		3					
-44'	35' to		4					
-46'	37'	S-6	1	5	24"	24"		S6 - Loose, brown, fine to medium sand, wet, trace silt, trace gravel (SW) <i>Drive and wash 3" casing tip to 30'</i>
-49'	40' to		2					
-51'	42'		3					
-54'	45' to	S-7	3	9	24"	12"		S7 - Loose, grey, fine to medium sand, wet, trace silt, trace gravel (SW) <i>Drive and wash 3" casing tip to 35'</i>
-56'	47'		4					
To	To		9					
-58'	49'	S-8	6	9	24"	12"		S8 - Loose, grey, fine sand, wet, trace silt (SP) <i>Drive and wash 3" casing tip to 40'</i>
-59'	50'		3					
To	To		3					
-59'	50'	S-9	2	5	24"	5"		S9 - Loose, brown, fine to coarse sand, wet, trace silt, trace gravel (SW) <i>Drive and wash 3" casing tip to 45'</i> <i>Driller reports top of rock at 45'</i>
-59'	50'		2					
-59'	50'		2					
-59'	50'	S-10	100/1"	Ref	1"	0"		<i>Driller reports top of rock at 45'</i>
-59'	50'							
-59'	50'							
To	To		RQD	Pen.	T.Rec			<i>Driller reports top of rock at 50'</i>
-55'	46'	R-1	6.5 Min	70%	60"	58.5"		Black and grey gneiss, very strong, slightly decomposed, competent, slightly fractured Biotite gneiss near New Bedford (Proterozoic Z)(Zgn) "USGS Bedrock Geologic Map of Mass. Pub 1983" Total recovery = 53". Solid Core Recovery =465", Modified Core Recovery = 42" RQD = (42"/60") = 70% Fair
-56'	47'		6.5 Min					
-57'	48'		5 Min					
-58'	49'		5 Min					
-59'	50'		4 Min					

Notes: Drill barge sited with GPS using Hypack. As-built locations (X= 814399 , Y=2697083)
 Drill and wash w/SPT and sampling 5' intervals.
 SPT done with 2" split spoon sampler and safety hammer with cathead
 Name (Density, Color, Classification), Moisture, Secondary grain Size, (USC Group Symbol)

Key: Fines Content: trace (tr) = <5%, little (lt) = 6-15%, few = 16-30%, some (sm) = 31-49%
 Cohesionless Soil Density (blows/ft): very loose (vl) = 0-4, loose (l) = 5-10, medium dense (md) = 11-29, dense (d) = 30-49 , very dense (vd) = 50+
 Cohesive Soil Consistency (blows/ft): very soft (vs) <2, soft (s) = 3 - 4 , medium (f) = 5-8 , stiff (st) = 9-15, very stiff (vs) = 16-30, hard (h) >30
 Color: br = brown, gy = grey, gn = green, yl = yellow, ol = olive, og = orange, bl = black



Boring	NBPA-NT-B8
Page	1 of 1
Date	27-Mar-19
Weather	Sunny, 35 degrees, wind 10-15, calm
Groundwater Depth	0 feet
Total Depth of Hole	49' feet
Depth to Cored Rock	49' feet
Project Name	New Bedford Port Authority, NT
Job No	
Driller	Hardiman, Tom JR, Tony
Logged By	Courtney Rocha

Elev. MLLW feet	Depth feet	Sample					Graphic Log	Soil & Rock Descriptions
		Type & No.	Blows per 6"	Uncorr (Corr) Blows	Pen. inch	Rec. inch		
-9'	0' To 2'	S-1	WR WR WR WR	WR	24"	8"	S1 - Very soft, black, organic silt, wet, trace sand, trace shell (OL) <i>Drive and wash 3" casing tip to 5'</i>	
-11'								
-14' to -16'	5' to 7'	S-2	WR WR WR	WR	24"	22"	S2 - Very soft, black/grey, organic silt, wet, trace sand, trace shell (OL) <i>Drive and wash 3" casing tip to 10'</i>	
-19' to -21'	10' to 12'	S-3	WR WR WR	WR	24"	24"	S3 - Very soft, black/grey, organic silt, wet, trace sand, trace shell (OL) <i>Drive and wash 3" casing tip to 15'</i>	
-24' to -26'	15' to 17'	S-4	6 12 12 12	24	24"	24"	S4 - Medium dense, grey, fine sand, wet, trace silt (SP) Wood in spoon, debris <i>Material change @ ±14'</i> <i>Drive and wash 3" casing tip to 20'</i>	
-29' to -31'	20' to 22'	S-5	2 2 1	4	24"	18"	S5 - Loose, grey, fine to medium sand, wet, trace silt, trace gravel (SP) <i>Drive and wash 3" casing tip to 25'</i>	
-34' to -36'	25' to 27'	S-6	7 6 7 7	13	24"	24"	S6 - Medium dense, brown, fine to medium sand, wet, trace silt, trace gravel (SW) <i>Drive and wash 3" casing tip to 30'</i>	
-39' to -41'	30' to 32'	S-7	3 2 3	5	24"	24"	S7 - Loose, grey, fine to medium sand, wet, trace silt, trace gravel (SW) <i>Drive and wash 3" casing tip to 35'</i>	
-44' to -46'	35' to 37'	S-8	2 4 4 7	8	24"	5"	S8 - Loose, brown, fine to coarse sand, wet, trace silt (SW) <i>Drive and wash 3" casing tip to 40'</i>	
-49' to -51'	40' to 42'	S-9	5 5 12	10	24"	2"	S9 - Medium dense, brown, coarse sand, wet, trace silt, trace gravel (SW) <i>Drive and wash 3" casing tip to 45'</i>	
-54' to -56'	45' to 47'	S-10	20 28 16 7	44	24"	8"	S10 - Dense, brown, fine to coarse sand, wet, trace silt, trace gravel (SW) <i>Mechanical issue did not core rock Driller reports top of rock at 49'</i>	

Notes: Drill barge sited with GPS using Hypack. As-built locations (X= 814371 , Y=2697180)
 Drill and wash w/SPT and sampling 5' intervals.
 SPT done with 2" split spoon sampler and safety hammer with cathead
 Name (Density, Color, Classification), Moisture, Secondary grain Size, (USC Group Symbol)

Key: Fines Content: trace (tr) = <5%, little (lt) = 6-15%, few = 16-30%, some (sm) = 31-49%
 Cohesionless Soil Density (blows/ft): very loose (vl) = 0-4, loose (l) = 5-10, medium dense (md) = 11-29, dense (d) = 30-49, very dense (vd) = 50+
 Cohesive Soil Consistency (blows/ft): very soft (vs) <2, soft (s) = 3 - 4, medium (f) = 5-8, stiff (st) = 9-15, very stiff (vs) = 16-30, hard (h) >30
 Color: br = brown, gy = grey, gn = green, yl = yellow, ol = olive, og = orange, bl = black



Boring	NBPA-NT-B10
Page	1 of 1
Date	28-Mar-19
Weather	Sunny, 30 degrees, wind 5-10, calm
Groundwater Depth	0 feet
Total Depth of Hole	49' feet
Depth to Cored Rock	49' feet
Project Name	New Bedford Port Authority, NT
Job No	
Driller	Hardiman, Tom JR, Tony
Logged By	Courtney Rocha

Elev. -14 MLLW feet	Depth feet	Sample					Graphic Log	Soil & Rock Descriptions
		Type & No.	Blows per 6"	Uncorr (Corr) Blows	Pen. inch	Rec. inch		
-14' to -16'	0' To 2'	S-1	WR WR WR WR	WR	24"	5"	S1 - Very soft, black, organic silt, wet, trace sand, trace shell (OL) <i>Drive and wash 3" casing tip to 5'</i>	
-19' to -21'	5' to 7'	S-2	WR WR WR	WR	24"	24"		S2 - Very soft, black/grey, organic silt, wet, trace sand, trace shell (OL) <i>Drive and wash 3" casing tip to 10'</i>
-24' to -26'	10' to 12'	S-3	6 8 7 9	15	24"	24"	S3 - Medium dense, grey, silty sand, wet, little silt (SM) <i>Drive and wash 3" casing tip to 15'</i>	
-29' to -31'	15' to 17'	S-4	1 2 3 1	5	24"	12"		S4 - Loose, grey, silty sand, wet, little silt (SM) <i>Drive and wash 3" casing tip to 20'</i>
-34' to -36'	20' to 22'	S-5	26 12 15 10	27	24"	12"	S5 - Medium dense, brown, fine sand, wet, few silt, trace gravel (SP) <i>Drive and wash 3" casing tip to 25'</i>	
-39' to -41'	25' to 27'	S-6	6 6 5 5	11	24"	9"		S6 - Medium dense, brown, fine to medium sand, wet, trace silt, trace gravel (SW) <i>Drive and wash 3" casing tip to 30'</i>
-44' to -46'	30' to 32'	S-7	4 4 5	8	24"	0"	S7 - No Recovery <i>Drive and wash 3" casing tip to 35'</i>	
-49' to -51'	35' to 37'	S-8	3 2 7 8	9	24"	0"		S8 - No Recovery <i>Drive and wash 3" casing tip to 40'</i>
-54' to -56'	40' to 42'	S-9	28 33 75 100/5"	Ref	23"	7"	S9 - Very dense, fine to coarse sand, wet, few silt, trace gravel (SW) <i>Drive and wash 3" casing tip to 45'</i> <i>Driller reports top of rock at 42', set top of Core barrel to 43'</i>	
To -58'	To -59'	R-1	3 Min 6 Min 4 Min 6 Min 5 Min	RQD 94%	Pen. 60"	T.Rec 58.5"		Black and grey gneiss, very strong, slightly decomposed, competent, unfractured Biotite gneiss near New Bedford (Proterozoic Z)(Zgn) "USGS Bedrock Geologic Map of Mass. Pub 1983" Total recovery = 57.5", Solid Core Recovery = 56.5", Modified Core Recovery = 56.5" RQD = (56.5"/60") = 94% Excellent

Notes: Drill barge sited with GPS using Hypack. As-built locations (X= 814439 , Y=2697450)
 Drill and wash w/SPT and sampling 5' intervals.
 SPT done with 2" split spoon sampler and safety hammer with cathead
 Name (Density, Color, Classification), Moisture, Secondary grain Size, (USC Group Symbol)

Key: Fines Content: trace (tr) = <5%, little (lt) = 6-15%, few = 16-30%, some (sm) = 31-49%
 Cohesionless Soil Density (blows/ft): very loose (vl) = 0-4, loose (l) = 5-10, medium dense (md) = 11-29, dense (d) = 30-49, very dense (vd) = 50+
 Cohesive Soil Consistency (blows/ft): very soft (vs) <2, soft (s) = 3 - 4, medium (f) = 5-8, stiff (st) = 9-15, very stiff (vs) = 16-30, hard (h) >30
 Color: br = brown, gy = grey, gn = green, yl = yellow, ol = olive, og = orange, bl = black



Boring	NBPA-NT-101
Page	1 of 1
Date	21-Sep-20
Weather	Sunny, 65 degrees, NNE 10-20, choppy
Groundwater Depth	N/A feet
Total Depth of Hole	40.5 feet
Depth to Cored Rock	30.5 feet
Project Name	New Bedford Port Authority, NT
Job No	
Driller	Hardiman, Tom JR, Tony
Logged By	M.Campagnone, P.E. (Foth)

Elev. MLLW feet	Depth feet	Sample					Graphic Log	Soil & Rock Descriptions
		Type & No.	Blows per 6"	Uncorr (Corr) Blows	Pen. inch	Rec. inch		
-12'	0' To 2'							Very soft - no sample <i>Drive and wash 3" casing tip to 15'</i>
-17'	5' to 7'	S-1	WR	WR	24"	20"		
-19'	7'		WR WR WR					S1 - Very soft, black, organic clay, wet, trace sand trace shell (OL) <i>Drive and wash 3" casing tip to 10'</i>
-22'	10' to 12'	S-2	WR	WR	24"	12"		S2 - Very soft, black/grey, organic clay, wet, trace sand, trace shell (OL) <i>Drive and wash 3" casing tip to 15'</i>
-24'	12'		WR WR WR					
-27'	15' to 17'	S-3	1	7	24"	10"		S3 - Loose, grey, fine sand, wet, trace silt, trace gravel (SP) <i>Drive and wash 3" casing tip to 20'</i>
-29'	17'		3 4 5					
-32'	20' to 22'	S-4	7	13	24"	8"		S4 - Medium dense, grey, fine to medium sand, wet, trace silt, trace gravel (SW) <i>Drive and wash 3" casing tip to 25'</i>
-34'	22'		6 7 10					
-37'	25' to 27'	S-5	50	71	24"	0		S5 - No Recovery <i>Drive and wash 3" casing tip to 30'</i>
-39'	27'		48 23 25					
-42'	30' to 32'	S-6	100/3"	Ref	3"	0"		S6 - No Recovery <i>Set up NX core run, Top rock, 30.5</i>
-44'	32'		Ref					
To	To			RQD	Pen	T-Rec.		
-43.5	31.5	Run-1	5 Min	28%	60"	35"		Black and grey gneiss, very strong, slightly decomposed, competent, intensely fractured
-44.5	32.5		6 Min					Biotite gneiss near New Bedford (Proterozoic Z)(Zgn) "USGS Bedrock Geologic Map of Mass. Pub 1983"
-45.5	33.5		4 min					Total recovery = 35", Solid Core Recovery = 24", Modified Core Recovery = 17"
-46.5	34.5		6 Min					RQD = (17"/60") = 28% Poor
-47.5	35.5		6 Min					
-48.5	36.5	Run-2	4 min	0%	60"	28"		Black and grey gneiss, very strong, slightly decomposed, competent, intensely fractured
-49.5	37.5		6 Min					Biotite gneiss near New Bedford (Proterozoic Z)(Zgn) "USGS Bedrock Geologic Map of Mass. Pub 1983"
-50.5	38.5		4 min					Total recovery = 28", Solid Core Recovery = 11", Modified Core Recovery = 0"
-51.5	39.5		4 min					RQD = (0"/60") = 0% Very Poor
-52.5	40.5		4 min					

Notes: Drill barge sited with GPS using Hypack. As-built locations (X=814,382, Y=2,696,478) Hole located on east side of barge, at intersection of dock and barge.
 Drill and wash w/SPT and sampling 5' intervals.
 SPT done with 2" split spoon sampler and safety hammer with cathead
 Name (Density, Color, Classification), Moisture, Secondary grain Size, (USC Group Symbol)

Key: Fines Content: trace (tr) = <5%, little (lt) = 6-15%, few = 16-30%, some (sm) = 31-49%
 Cohesionless Soil Density (blows/ft): very loose (vl) = 0-4, loose (l) = 5-10, medium dense (md) = 11-29, dense (d) = 30-49, very dense (vd) = 50+
 Cohesive Soil Consistency (blows/ft): very soft (vs) <2, soft (s) = 3 - 4, medium (f) = 5-8, stiff (st) = 9-15, very stiff (vs) = 16-30, hard (h) >30
 Color: br = brown, gy = grey, gn = green, yl = yellow, ol = olive, og = orange, bl = black



Boring NBPA-NT-102
 Page 1 of 1
 Date 23-Sep-20
 Weather Sunny, 65 degrees, N 5-10, calm
 Project Name New Bedford Port Authority, NT
 Job No
 Driller Hardiman, Tom JR, Tony
 Logged By M.Campagnone, P.E. (Foth)

Groundwater Depth N/A feet
 Total Depth of Hole feet
 Depth to Cored Rock feet

Elev. -12.5 MLLW feet	Depth feet	Sample					Graphic Log	Soil & Rock Descriptions
		Type & No.	Blows per 6"	Uncorr (Corr) Blows	Pen. inch	Rec. inch		
-13' to -15'	0' To 2'							Very soft - no sample <i>Drive and wash 3" casing tip to 5'</i>
-18' to -20'	5' to 7'	S-1	WR	WR	24"	22"		S1 - Very soft, black, organic clay, wet, trace sand trace shell (OL) <i>Drive and wash 3" casing tip to 10'</i>
-23' to -25'	10' to 12'	S-2	WR	WR	24"	24"		S2 - Very soft, black/grey, organic clay with sand, wet, little sand, trace shell (OL) <i>Drive and wash 3" casing tip to 15'</i>
-28' to -30'	15' to 17'	S-3	3	5	24"	10"		S3 - Loose, gray, fine to coarse sand, wet, trace silt, trace gravel (SW) <i>Drive and wash 3" casing tip to 20'</i>
-33' to -35'	20' to 22'	S-4	3	7	24"	8"		S4 - Loose, grey, fine to coarse sand, wet, trace silt, trace gravel (SW) <i>Drive and wash 3" casing tip to 25'</i>
-38' to -40'	25' to 27'	S-5	14	49	24"	3"		S5 - Dense, gray, fine to coarse sand, wet, trace silt, few gravel (SW) <i>Drive and wash 3" casing tip to refusal at 28'</i> <i>Set up NX core run</i>
To	To			RQD	Pen	T-Rec.		
-41.5	29	Run-1	5 Min	32%	60"	40"		Black and grey gneiss, very strong, slightly decomposed, competent, moderately fractured Biotite gneiss near New Bedford (Proterozoic Z)(Zgn) "USGS Bedrock Geologic Map of Mass. Pub 1983" Total recovery = 40", Solid Core Recovery = 19", Modified Core Recovery = 19" RQD = (19"/60") = 32% Poor
-42.5	30		3 Min					
-43.5	31		1 Min					
-44.5	32		6 Min					
-45.5	33		7 Min					
-46.5	34	Run-2	6 Min	62%	60"	53"		Black and grey gneiss, very strong, slightly decomposed, competent, moderately fractured Biotite gneiss near New Bedford (Proterozoic Z)(Zgn) "USGS Bedrock Geologic Map of Mass. Pub 1983" Total recovery = 53", Solid Core Recovery = 37", Modified Core Recovery = 37" RQD = (37"/60") = 62% Fair
-47.5	35		6 Min					
-48.5	36		10 Min					
-49.5	37		4 min					
-50.5	38		4 min					

Notes: Drill barge sited with GPS using Hypack. As-built locations (X=814,398, Y=2,696,611) Hole located on east side of barge, at intersection of two barges.
 Drill and wash w/SPT and sampling 5' intervals.
 SPT done with 2" split spoon sampler and safety hammer with cathead
 Name (Density, Color, Classification), Moisture, Secondary grain Size, (USC Group Symbol)

Key: Fines Content: trace (tr) = <5%, little (lt) = 6-15%, few = 16-30%, some (sm) = 31-49%
 Cohesionless Soil Density (blows/ft): very loose (vl) = 0-4, loose (l) = 5-10, medium dense (md) = 11-29, dense (d) = 30-49, very dense (vd) = 50+
 Cohesive Soil Consistency (blows/ft): very soft (vs) <2, soft (s) = 3 - 4, medium (f) = 5-8, stiff (st) = 9-15, very stiff (vs) = 16-30, hard (h) >30
 Color: br = brown, gy = grey, gn = green, yl = yellow, ol = olive, og = orange, bl = black

Project Name: North Terminal - NBPA
 Project Location: New Bedford, MA
 Project ID: 020N001



Sediment Core Processing Log

Sampling Personnel: M.Campagnone
 Courier Personnel: Geotesting Express (rec. 12/6)
 Processing Personnel: M.Campagnone

Core Collection Date: 11/21/2019
 Core Processing Date: 10:00
 Core Processing Time: 11:00

Sample Location ID:	
Actual Sampling Location	
Northing	2696706.8
Easting	814388
Datum	± - 9 MLW at Surface

Field Measurements

Probed Sediment Thickness (ft): 2 Units: Feet
 Sediment Core Penetration: 2 Units: Feet
 Sediment Recovered: 2 Units: Feet

Photo ID Numbers: _____

Core Processing		Analyticals	
Sediment Recovered as Measured in the Lab: _____ Units: _____			
Depth Intervals* (in/cm)	Descriptions	Depth Intervals* (in/cm)	Sample Numbers
NT-Shelby 1	Soft organic marine sediment takem at approximately the location of NT-B2	4' to 6'	Sample 1
NT-Shelby 1	Soft organic marine sediment takem at approximately the location of NT-B2	14' to 16'	Sample 2

Other Comments: _____

* From top of core (e.g. 0-10 cm, 10-20 cm, etc.)

Project Name: North Terminal - NBPA
Project Location: New Bedford, MA
Project ID: 020N001



Sediment Core Processing Log

Sampling Personnel: M.Campagnone Core Collection Date: 11/22/2019
Courier Personnel: Geotesting Express (rec. 12/6) Core Processing Date: 9:00
Processing Personnel: M.Campagnone Core Processing Time: 10:00
Sample Location ID: _____
Actual Sampling Location
Northing: 2697110
Easting: 814234
Datum: ± -5 MLW at surface

Field Measurements

Probed Sediment Thickness (ft): 2 Units: Feet
Sediment Core Penetration: 2 Units: Feet
Sediment Recovered: 2 Units: Feet

Photo ID Numbers: _____

Core Processing		Analyticals	
Sediment Recovered as Measured in the Lab:	_____	Units:	_____

Depth Intervals* (in/cm)	Descriptions	Depth Intervals* (in/cm)	Sample Numbers
NT-Shelby 2	Soft organic marine sediment takem at approximately the location of NT-B6	4' to 6'	Sample 1
NT-Shelby 2	Soft organic marine sediment takem at approximately the location of NT-B6	13' to 15'	Sample 2

Other Comments: _____