

Appendix D

Test Pit Photo Logs

Client Name:
Rhode Island Department of Transportation

Site Location:
Cranston, Rhode Island

Project No.
60680132

Photo No. 1

Date:
4/26/2022

Description: TP-1

TP-1 excavated to approximately 6 ft bgs.



Photo No. 2

Date:
4/26/2022

Description: TP-1

Double ring infiltrrometer test setup at 6 ft bgs.



Client Name:
Rhode Island Department of Transportation

Site Location:
Cranston, Rhode Island

Project No.
60680132

Photo No. 3

Date:
4/26/2022

Description: TP-1

TP-1 excavated to approximately 11 feet.



Photo No. 4

Date:
4/26/2022

Description: TP-2

TP-2 excavated to approximately 6 ft bgs. Significant water infiltration observed.



Client Name:
Rhode Island Department of Transportation

Site Location:
Cranston, Rhode Island

Project No.
60680132

Photo No. 5

Date:
4/26/2022

Description: TP-2

TP-2 excavated to approximately 6 ft bgs. Significant water infiltration observed.



Photo No. 6

Date:
4/26/2022

Description: TP-3

TP-3 excavated to approximately 6 ft bgs.



Client Name:
Rhode Island Department of Transportation

Site Location:
Cranston, Rhode Island

Project No.
60680132

Photo No. 7

Date:
4/26/2022

Description: TP-3

Double ring infiltrrometer test setup at 6 ft bgs.



Photo No. 8

Date:
4/27/2022

Description: TP-3

TP-3 excavated to approximately 12 ft bgs.



Client Name:
Rhode Island Department of Transportation

Site Location:
Cranston, Rhode Island

Project No.
60680132

Photo No. 9

Date:
4/26/2022

Description: TP-4

TP-4 excavated to approximately 6 ft bgs.



Photo No. 10

Date:
4/26/2022

Description: TP-4

TP-4 Double ring infiltrometer test setup at 6 ft bgs.



Client Name:
Rhode Island Department of Transportation

Site Location:
Cranston, Rhode Island

Project No.
60680132

Photo No. 11

Date:
04/27/2022

Description: TP-4

TP-4 excavated to approximately 11 ft bgs. Increased boulder quantity with depth.



Photo No. 12

Date:
04/26/2022

Description: TP-5

TP-5 excavated to approximately 4 ft bgs.



Client Name:
Rhode Island Department of Transportation

Site Location:
Cranston, Rhode Island

Project No.
60680132

Photo No. 13

Date:
04/26/2022

Description: TP-5

TP-5 excavated to approximately 10 ft bgs. Note excavated rock pile in the background.



Photo No. 14

Date:
04/27/2022

Description: TP-6

TP-6 excavated to approximately 4 ft bgs. Groundwater infiltration observed in the center of the test pit.



Groundwater

Client Name:
Rhode Island Department of Transportation

Site Location:
Cranston, Rhode Island

Project No.
60680132

Photo No. 15

Date:
04/27/2022

Description: TP-6

TP-6 excavated to approximately 6 ft bgs. Groundwater infiltration observed in the center of the test pit.



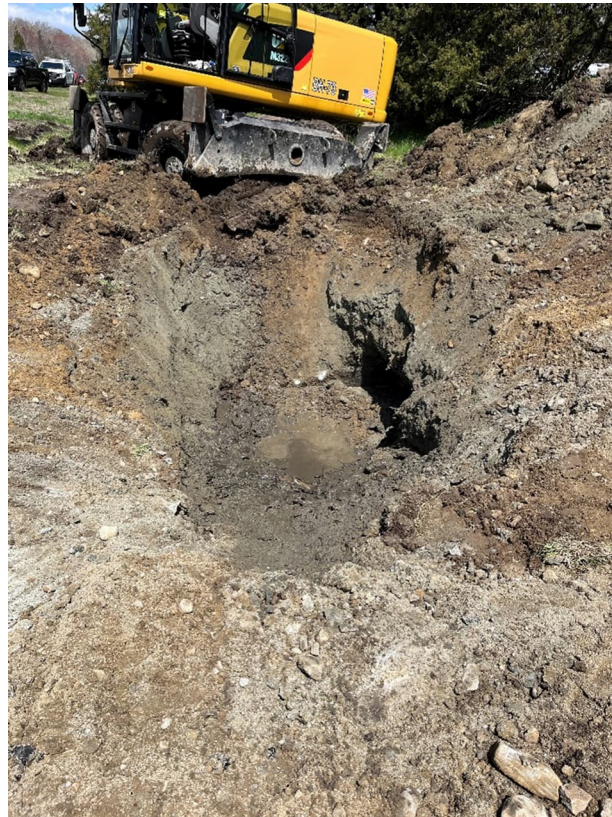
Groundwater

Photo No. 16

Date:
00/00/00

Description: TP-6

TP-6 excavated to approximately 9 ft bgs. Large boulders prevented the excavation from proceeding deeper.



Client Name:
Rhode Island Department of Transportation

Site Location:
Cranston, Rhode Island

Project No.
60680132

Photo No. 17

Date:
04/27/2022

Description: TP-7

TP-7 excavated to approximately 6 ft bgs.



Photo No. 18

Date:
04/27/2022

Description: TP-7

TP-7 double ring infiltrometer test setup.



Client Name:
Rhode Island Department of Transportation

Site Location:
Cranston, Rhode Island

Project No.
60680132

Photo No. 19

Date:
04/27/2022

Description: TP-7

TP-7 excavated to approximately
12 ft bgs.



Appendix E

Soil Boring Logs

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-101

Sheet 1 of 3

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE.SCANCARELLO\ONEEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 11/18/2022 12:53:02 PM

Date(s) Drilled	October 3, 2022	Logged By	E. daSilva	Checked By	K. Scancarello
Drilling Method	Drive and Wash 4" steel casing	Drill Bit Size/Type	Roller bits	Total Depth of Borehole	61.0' bgs
Drill Rig Type	Diedrich D120	Drilling Contractor	New England Boring	Surface Elevation	69.0 ft NAVD88
Borehole Backfill	Soil Cuttings, Bagged Sand, Asphalt cold patch	Sampling Method(s)	2" split spoon	Hammer Data	140 lb auto-hammer
Boring Location	N 244057 E 333191 (ft)	Groundwater Level(s)	Measured @ 35' on October 4		

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
69.0	0							12" ASPHALT	
68.0	1.0								
		SS1	12 14 15 30	29	21			Dark gray, Poorly graded SAND (SP) with Gravel, fine to coarse grained, few non-plastic fines [FILL]	
65		SS2	19 31 33 35	64	10			Light brown, Poorly graded SAND (SP), fine to medium grained, few fine gravel, few non-plastic fines [FILL]	
5		SS3	24 32 33 27	65	5			Light brown to gray, Poorly graded SAND with Silt (SP-SM), fine to medium grained, little non-plastic fines [FILL]	
		SS4	23 21 16 20	37	11			Light brown, Poorly graded SAND with Silt (SP-SM), fine to coarse grained, little non-plastic fines, few fine to coarse gravel [FILL]	
60		SS5	13 7 9 7	16	9			Similar to SS4 [FILL]	
55		SS6	11 14 14 13	28	3			Light brown, Poorly graded SAND with Silt (SP-SM) and Gravel, fine to coarse grained, some fine to coarse gravel, few non-plastic fines	%G=39.6 %S=50.2 %F=10
50		SS7	10 8 12	20	4			Similar to SS6	
45		SS8	5 8 11 13	19	3			Light brown, Poorly graded SAND with Silt (SP-SM), fine to coarse grained, few non-plastic fines, trace gravel	

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-101

Sheet 2 of 3

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE_SCANCARELLO\IONEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 11/18/2022 12:53:03 PM

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
40.0	30	SS9	5 3 5 5	8	6		Light brown, Poorly graded SAND (SP), fine to coarse grained, trace non-plastic fines, trace gravel	%G=0.9 %S=93.5 %F=5.6	
35.0	35	SS10	4 4 6 7	10	0		No Recovery	▽	
30.0	40	SS11	11 8 9 8	17	0		Brown, Poorly graded SAND (SP), fine to coarse grained, few non-plastic fines, few gravel, wet	Sampled with 3" SPT due to poor recovery, gravel stuck in tip	
25.0	45	SS12	10 6 7 9	13			Gray, Poorly graded SAND with Silt (SP-SM) and Gravel, fine to coarse grained, few fine to coarse gravel, few non-plastic fines, wet		
20.0	50	SS13	5 5 6 6	11	11		Gray, Poorly graded SAND Silt (SP-SM) and Gravel, fine to coarse grained, little fine to coarse gravel, few non-plastic fines, wet	%G=24.2 %S=69.4 %F=6.4	
15.0	55	SS14	6 5 7 6	12	0		No Recovery	Sampled with 3" SPT due to poor recovery	

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-101

Sheet 3 of 3

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE-SCANCARE\LOIONEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 11/18/2022 12:53:03 PM

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
60		SS15	7 6 13 12	19	10		Gray, Poorly graded SAND Silt (SP-SM) and Gravel, fine to coarse grained, little fine to coarse gravel, few non-plastic fines, wet		
							Boring Terminated at 61 ft bgs		



Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-102

Sheet 1 of 1

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE-SCANCARELLO\DRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\400-FIELD-LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 11/18/2022 11:43:44 AM

Date(s) Drilled	June 10 to 15, 2022	Logged By	R. Munschauer, E. daSilva	Checked By	K. Scancarello
Drilling Method	Drive and Wash with with 3" to 5" steel casing	Drill Bit Size/Type	Roller bits, Nx-sized core barrel	Total Depth of Borehole	6.0' bgs
Drill Rig Type	Strata Star 5	Drilling Contractor	New England Boring	Surface Elevation	57.6 ft NAVD88
Borehole Backfill	Soil Cuttings	Sampling Method(s)	2" split spoon, 3" spit spoon, Nx-sized core barrel	Hammer Data	140 lb. auto-hammer
Boring Location	N 244165 E 333330 (ft)	Groundwater Level(s)	Undetermined		

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
0	0	SS1	5	18	21		57.6 3" TOPSOIL 0.2 Dark brown, SILT with Sand [ML], little fine to coarse grained sand, few fine to coarse subround to subangular gravel [FILL] @1' Light brown, Poorly graded SAND (SP), fine to medium grained, trace fine subrounded gravel [FILL] @2' Brown, Well-graded SAND with gravel (SW), fine to coarse grained, fine to coarse subrounded gravel		
-55	10	SS2	10	34	22				
5	16	SS3	16	56	23		53.1 4.5 Dark brown to gray, Silty SAND (SM) with gravel, fine to coarse, little non-plastic fines, some fine to coarse subrounded to subangular gravel 51.6 6.0 @5' Black carboniferous Schist as gravel and cobble Boring Terminated at 6 ft bgs	%G=33.3 %S=38.6 %M=26.0 %C=2.0 @5' Organic Matter = 1.3%, possible top of native. Elevated SPT blow count due to Schist cobble. Rods deviated 4" so hole off-set 2' south	
-50									
-45									
-40									
-35									

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-102A

Sheet 1 of 4

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE.SCANCARELLO\IONEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 11/18/2022 11:43:46 AM

Date(s) Drilled	June 10 to 15, 2022	Logged By	R. Munschauer, E. daSilva	Checked By	K. Scancarello
Drilling Method	Drive and Wash with with 3" to 5" steel casing	Drill Bit Size/Type	Roller bits, Nx-sized core barrel	Total Depth of Borehole	101.3' bgs
Drill Rig Type	Strata Star 5	Drilling Contractor	New England Boring	Surface Elevation	57.6 ft NAVD88
Borehole Backfill	Soil Cuttings	Sampling Method(s)	2" split spoon, 3" spit spoon, Nx-sized core barrel	Hammer Data	140 lb. auto-hammer
Boring Location	N 244165 E 333330 (ft)	Groundwater Level(s)	Undetermined		

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
0	0								B-102A offset 2' south, refer to B-102 log for samples 0' to 6'
5	4.5						Dark brown to gray, Silty SAND (SM) with gravel, fine to coarse, little non-plastic fines, some fine to coarse subrounded to subangular gravel @5' Black carboniferous Schist as gravel and cobble		
5	7.2	SS4	7 5 6 8	11	17			Light brown to gray, Well-graded SAND (SW), fine to coarse grained, little subrounded gravel, few non-plastic fines	%G=28.8 %S=61.7 %F=9.5 Switched to drive and wash
10	7	SS5	9 9 8 7	17	7				
15	15.0	SS6	3 4 4 4	8	3			Gray, Poorly graded SAND (SP), fine to coarse grained, few trace gravel, few non-plastic fines	On 6/13/22 advanced 5" casing from start of hole
20	18	SS7	2 WOH WOH 2	0	0		No recovery		@18' No recovery in 2" SPT. Advanced 3" spoon and recovered probable wash
25	37	SS8	8 6 12 37	18	3			Gray, Poorly graded SAND (SP), fine to coarse grained, trace gravel	



Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-102A

Sheet 2 of 4

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE_SCANCARELLO\ONEEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 11/18/2022 11:43:46 AM

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
30	30	SS9	7 7 13 25	20	12		Light brown, Poorly graded SAND (SP), fine to coarse grained, trace non-plastic fines		
35	35	SS10	14 8 8 21	16	4		Light brown, Poorly graded SAND (SP), fine to coarse grained, trace gravel		
40	40	SS11	6 2 4 9	6	15		Light brown, Silty SAND (SM), fine grained, some non-plastic fines	%G=0 %S=59.9 %M=38 %C=2.1	
45	45	SS12	8 11 13 17	24	17		Light brown, Silty SAND (SM), fine to medium grained, little non-plastic fines		
50	50	SS13	8 10 8 7	18	18		Light brown, Silty SAND (SM), fine grained, some non-plastic fines		
55	55	SS14	10 14 15 20	29	19		Light brown, Silty SAND (SM), fine to medium grained, little non-plastic fines		

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-102A

Sheet 3 of 4

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE_SCANICARELLO\ONEEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 11/18/2022 11:43:46 AM

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
0									
	60	SS15	12 10 12 5	22	0		No recovery	Used 3" SPT because no recovery in 2", no recovery in 3"	
	65	SS16	11 12 11 46	23	0		No recovery	Adding bentonite powder for better recovery	
	70	SS17	8 10 10 10	20	18		Light brown, Poorly graded SAND (SP), fine to medium grained, trace non-plastic fines		
	75	SS18	10 17 15 19	32	17		Dark brown, Poorly graded SAND (SP), fine to medium grained, trace non-plastic fines		
	80	SS19	9 16 16 35	32	19		Light brown/orange brown Poorly graded SAND (SP), fine to medium grained, trace non-plastic fines		
	85	SS20	20 24 23 32	47	18		Light brown/orange brown Poorly graded SAND (SP), fine to medium grained, trace non-plastic fines Dark gray, Silty GRAVEL (GM) with sand, fine to medium grained, some medium to fine sand, few non-plastic silt		

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-102A

Sheet 4 of 4

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE_SCANICARELLO\IONEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 11/18/2022 11:43:46 AM

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
-30		SS21		35 60/5"	0/5"	8		Dark gray, Silty GRAVEL (GM) with sand, fine to medium grained, some medium to fine sand, few non-plastic silt, fragments of fractured decomposed rock in tip	Drill rig chatter Top of rock at 89', Advanced 2' into rock to drive 3" casing
90									
-35		C1		RQD = 85%		51		Medium strong, fresh, slightly fractured, Light grayish to blue until 94.5', SANDSTONE, fine to very coarse grained, from 94.5-97 dark gray fine to medium grained Drilling Rate (min/ft): 2:28, 1:29, 1:06, 1:21, 1:43	
95									
-40		C2		RQD = 94%		48		Medium strong, fresh, slightly fractured, Light grayish blue, SANDSTONE, fine to coarse grained Drilling Rate (min/ft): 1:36, 1:27, 1:44, 1:28, 2:50	
100									@101' Core bit jammed. Boring terminated
								Boring Terminated at 101.25 ft bgs	
-45									
-50									
-55									

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-103

Sheet 1 of 2

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE.SCANCARELLO\DRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 7/1/2022 2:54:53 PM

Date(s) Drilled	May 24 to 26, 2022	Logged By	E. daSilva	Checked By	K. Scancarello
Drilling Method	Drive and Wash with 4" steel casing	Drill Bit Size/Type	Roller bits, Nx-sized core barrel	Total Depth of Borehole	45.5' bgs
Drill Rig Type	Diedrich D120 Truck-Mounted	Drilling Contractor	New England Boring Company	Surface Elevation	78.3 ft NAVD88
Borehole Backfill	Soil Cuttings and Bagged sand	Sampling Method(s)	2" split spoon, Nx-sized core barrel	Hammer Data	140 lb. auto-hammer
Boring Location	N 245284 E 334270 (ft)	Groundwater Level(s)	Measured @ 28' on May 26		

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
0							78.3 4" TOPSOIL		
		SS1	18	35	17		78.0 Light brown Poorly graded SAND (SP), fine to coarse grained, few non-plastic fines, trace fine to coarse grained gravel [FILL]		
		SS2	26	40	15		74.3 Light gray to brown Poorly graded SAND with Gravel (SP), fine to coarse grained, little fine to coarse grained gravel [FILL]		
			20						
			22						
5		SS3	10	43	13		74.3 Light brown Silty SAND with Gravel (SM), fine to coarse grained, some fine to coarse grained gravel, few non-plastic fines	%G=42.8 %S=44.2 %F=13.0	
			20						
			23						
			34						
		SS4	39	44	13		72.3 Light brown Poorly graded SAND (SP), fine to coarse grained, few fine to coarse gravel		
			25						
			19						
			22						
70		SS5	13	35	11		Light brown Poorly graded SAND (SP), fine to coarse grained, few fine to coarse gravel, trace non-plastic fines		
			16						
			19						
			22						
10									
65		SS6	6	16	11		Light Brown Poorly graded SAND (SP), fine to coarse grained, few fine to coarse gravel, moist		
			8						
			8						
			12						
15									
60		SS7	4	31	11		60.3 Top 5" Light brown Well-graded SAND with Silt and Gravel (SW-SM), fine to coarse grained, little fine to coarse gravel, few non-plastic silt, moist	SS7A %G=19.1 %S=70.7 %M=8.2 %C=2.0	
			12						
			19						
			21						
20							59.8 Bottom 6" Gray, Silty SAND (SM), some non-plastic fines, moist	SS7B %G=2.0 %S=50.3 %M=39.7 %C=8.0	
55		SS8	60/2"	60/2"	0		No Recovery		
25									

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-103

Sheet 2 of 2

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE-SCANCARE\LOIONEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 7/1/2022 2:54:53 PM

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
50.3	26.0							Attempted to core at 26' but losing water, adding casing to create a better seal.	
48.9	29.4	SS9	12 15 60/4"	60/4"			Gray Poorly graded SAND with Silt (SP-SM), fine grained, few non-plastic fines, few fine to coarse subrounded gravel, moist	Added 3" casing and drove through possible boulder or cobble zone. Drill bit penetrated the zone. No water return.	
							Probable Boulder		
43.8	34.5	C1	RQD = 8%		14				
		C2	RQD = 86%		26		Strong, fresh, light blueish gray, SANDSTONE [Rhode Island Formation], fine to medium grained	C2 2.5' due to core rod jam and break. Retrieved broken core rod 5/26/22.	
							Core Times (min/ft): 5:11, 3:45, 4:24		
		C3	RQD = 50%		41		Medium strong to strong, fresh, light blue to dark gray, iron stains, SANDSTONE [Rhode Island Formation], fine to medium grained moderately wide discontinuities, dip angle 25-30 degrees	From 39'-41' Probable weak/highly weathered rock, return in wash was fine sand.	
							Core Time (min/ft): 3:13, 3:19, 2:22 3:28, 3:18 @ 37' Quartz vein Lost Rock 38.5-40.2'		
		C4	RQD = 14%		18		Medium to strong, fresh, light blue to gray, iron stains, SANDSTONE [Rhode Island Formation], fine to medium grained	C4 Significant return water loss. Probable loss in sand seam. Mechanical fractures from trying to release rock from hole.	
							Core Time (min/ft): 4:21, 5:04, 2:36 Weak Rock 42.1-42.6' Residual Soil @ 43.5'		
32.8	45.5						Intermittent Silt/Sand/Weathered rock zones		
							Boring Terminated at 45.5 ft bgs		

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-104

Sheet 1 of 3

Date(s) Drilled	May 23 to 24, 2022	Logged By	E. daSilva	Checked By	K. Scancarello
Drilling Method	Drive and Wash with 4" steel casing	Drill Bit Size/Type	Roller bits, Nx-sized core barrel	Total Depth of Borehole	58.0' bgs
Drill Rig Type	Diedrich D120 Truck-Mounted	Drilling Contractor	New England Boring Company	Surface Elevation	75.3 ft NAVD88
Borehole Backfill	Soil Cuttings and Bagged sand	Sampling Method(s)	2" split spoon, Nx-sized core barrel	Hammer Data	140 lb. auto-hammer
Boring Location	N 245141 E 334321 (ft)	Groundwater Level(s)	Measured @ 28' on May 24		

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
75.3	0								
74.9	0.4						5" TOPSOIL		
		SS1	3 9 12 10	21	15			Light brown Poorly graded SAND (SP), fine to coarse grained, trace non-plastic fines, trace roots in top 5" [FILL]	
		SS2	10 16 15 10	31	8			Similar to SS1 [FILL]	
		SS3	15 11 9 7	20	10			Light brown Poorly graded SAND (SP), fine to coarse grained, trace fine to coarse gravel [FILL]	
		SS4	9 7 6 10	13	15			Similar to SS4 [FILL]	
		SS5	5 8 10 11	18	7			Brown Poorly graded GRAVEL with Silt and Sand (GP-GM), fine to coarse grained, medium to coarse grained sand, few non-plastic fines, wet [FILL]	%G=60.6 %S=32.8 %M=5.6 %C=1
		SS6	10 9 7 11	16	8			Brown Well-graded SAND with Silt (SW-SM), fine to coarse grained, few fine to coarse grained gravel, few non-plastic fines, wet	
		SS7	6 8 9 10	17	8			Grayish-brown Well-graded SAND with Silt (SW-SM), fine to coarse grained, few fine to coarse grained gravel, few non-plastic fines, wet	%G=7.1 %S=85.7 %F=7.2
		SS8	23 25 25 28	50	16			Gray Silty SAND (SM), fine to medium grained, little non-plastic fines, trace fine to coarse grained gravel, wet [TILL]	



Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE.SCANCARELLO\IONEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 7/1/2022 2:54:59 PM

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-104

Sheet 2 of 3

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE_SCANCARELLO\ONEEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 7/1/2022 2:54:59 PM

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
	30	SS9	32 41 38 33	79	16			Similar to SS8 [TILL]	▽
	35	SS10	67 54 60/2"	60/2"	11			Gray Poorly graded SAND with Silt (SP-SM), fine grained, few non-plastic fines, trace decomposed rock [TILL]	42.3 33.0
	40	SS11	60/1"	60/1"	1			Gray Decomposed Rock as non-plastic Silt	37.3 38.0
	45	SS12	60	0	0			Black Decomposed Rock	
	50	C1	RQD = 96%		59			Medium strong, fresh to slightly weathered, slightly fractured, light to dark gray, SANDSTONE [Rhode Island Formation], fine to medium grained, moderately spaced discontinuity, planar discontinuities Core times (min/ft): 3:18, 3:00, 3:18, 3:18, 2:30	27.3 48.0
	55	C2	RQD = 81%		51			Similar to C1 Core times (min/ft): 3:36, 3:54, 2:54, 3:30, 2:54	

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-104


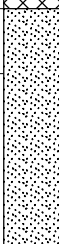
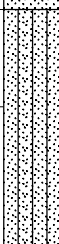
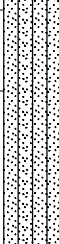
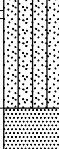
Sheet 3 of 3

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE-SCANCARE\LOIONEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 7/1/2022 2:55:00 PM

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
		C2		RQD = 81%		51			
							17.3	Boring Terminated at 58 ft bgs	58.0

Project: RIDOT Bridge Group 51B Project Location: Cranston, RI Project Number: 60680132	<h2 style="margin: 0;">Log of Test Boring B-105</h2> <p style="margin: 0;">Sheet 1 of 2</p>
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Date(s) Drilled: June 6, 2022	Logged By: R. Munschauer	Checked By: K. Scancarello
Drilling Method: Drive and Wash with 4" steel casing	Drill Bit Size/Type: Roller bits, Nx-sized core barrel	Total Depth of Borehole: 34.7' bgs
Drill Rig Type: Strata Star 5 ATV-mounted	Drilling Contractor: New England Boring Company	Surface Elevation: 75.0 ft NAVD88
Borehole Backfill: Soil Cuttings and Bagged sand	Sampling Method(s): 2" split spoon, Nx-sized core barrel	Hammer Data: 140 lb. auto-hammer
Boring Location: N 245332 E 334505 (ft)	Groundwater Level(s): Undetermined	

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
75.0	0							0.0	<i>Vacuumed to 8'</i>
67.0	8.0	SS1		26 36 50/4"	50/4"	12		8.0	Light gray, Poorly graded SAND (SP), trace non-plastic fines, trace subrounded gravel
62.0	13.0	SS2		36 63 54 57	117	14		13.0	Gray Silty SAND with Gravel (SM), fine to coarse grained, little subrounded to subangular gravel, little non-plastic fines
62.0	13.0								%G=17.2 %S=58.0 %F=24.8
57.0	18.0	SS3		45 78 68 75/2"	146	13		18.0	Light gray, Silty SAND with Gravel (SM), fine to coarse grained, little gravel, little non-plastic fines
57.0	18.0								%G=25.9 %S=52.8 %F=21.3
55.0	20.0								<i>19.7-21' Possible cobbles/boulders or weathered rock, increased drilling resistance</i>
55.0	20.0	SS4		50/2"	50/2"	0		20.0	No recovery
55.0	20.0								<i>4" casing advanced to 23'</i>
50.0	25.0	C1		RQD = 48%		55		25.0	Strong to medium strong, fresh, dark gray, SANDSTONE [Rhode Island Formation], moderately fractured, fine
50.0	25.0								<i>3" casing advanced to 25'</i>

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-105

Sheet 2 of 2

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
	30	C1		RQD = 48%		55		grained Core times (min/ft): 3:00, 3:45, 4:30, 8:15, 8:00	Down pressure 350 psi, RPM:1250
		C2		RQD = 39%		57		Moderately strong to weak, fresh to slightly weathered, highly to moderately fractured, black, poorly foliated Carboniferous SCHIST [Rhode Island Formation], aphanitic Core times (min/ft): 3:30, 3:45, 3:60, 7:15, 5:15	Increasing drilling down pressure to 450 psi
								Boring Terminated at 34.7 ft bgs	

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-106

Sheet 1 of 2

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE.SCANCARELLO\DRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 7/1/2022 2:55:13 PM

Date(s) Drilled	May 23, 2022	Logged By	E. daSilva	Checked By	K. Scancarello
Drilling Method	Drive and Wash with 4" steel casing	Drill Bit Size/Type	Roller bits, Nx-sized core barrel	Total Depth of Borehole	36.0' bgs
Drill Rig Type	Diedrich D120 Truck-Mounted	Drilling Contractor	New England Boring Company	Surface Elevation	75.5 ft NAVD88
Borehole Backfill	Soil Cuttings, Bagged Sand, Bentonite	Sampling Method(s)	2" split spoon, Nx-sized core barrel	Hammer Data	140 lb. auto-hammer
Boring Location	N 245210 E 334496 (ft)	Groundwater Level(s)	Measured @ 22.5 on May 23		

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
75.5	0								Vacuumed to 8'
67.5	8.0	SS1	18 23 24 20	47	13		Gray Silty SAND (SM), fine grained, few coarse gravel, some non-plastic fines, wet	%G=12.0 %S=56.2 %F=31.8	
60.0	15.0	SS2	30 17 21 27	38	13		Gray Silty SAND with Gravel (SM), fine to coarse grained, little fine to coarse gravel, some non plastic fines, wet	%G=16.7 %S=42.7 %F=40.6	
57.5	18.0	SS3	21 27 27 27	54	16		Gray Poorly graded SAND (SP), fine to medium grained, trace coarse gravel		
52.5	23.0	SS4	52 60/2"	60/2"	8		Black weathered rock, slightly cohesive, probable Decomposed Rock		
50.5	25.0	C1	RQD= 60%		51		Medium strong, slightly weathered, moderately fractured, black, SCHIST [Rhode Island Formation]		

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-106

Sheet 2 of 2

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE-SCANCARE\LOIONEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 7/1/2022 2:55:13 PM

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
			C1	RQD= 60%		51		Core Times (min/ft): 2:24, 2:06, 2:30, 1:54, 2:06	
	30		C2	RQD = 55%		9	45.5 44.8	Similar to C1 Core Times (min/ft): 2:36/9"	C2: Possible fragment from C1 barrel jam
	35		C3	RQD = 22%		47	39.5	Top 1.7' Medium strong, slightly weathered, moderately fractured, black, SCHIST [Rhode Island Formation] Bottom 3.3' becomes highly weathered, highly fractured @34.5' gauge filled seams bottom 15" decomposed Core Times (min/ft): 2:00, 3:06, 2:36, 4:06, 1:36	Chatter while coring
								Boring Terminated at 36 ft bgs	

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-107

Sheet 1 of 4

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE.SCANCARELLO\DRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440-FIELD-LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 7/15/2022 12:24:00 PM

Date(s) Drilled	May 26, 27, 31, & June 1, 2022	Logged By	E.daSilva	Checked By	K. Scancarello
Drilling Method	Drive and Wash with 4" & 5" steel casing	Drill Bit Size/Type	Roller bits, Nx-sized core barrel	Total Depth of Borehole	107.0' bgs
Drill Rig Type	Diedrich D120 Truck-Mounted	Drilling Contractor	New England Boring Company	Surface Elevation	53.8 ft NAVD88
Borehole Backfill	Soil Cuttings, Bagged Sand, Bentonite	Sampling Method(s)	2" split spoon, 3" split spoon, Nx-sized core barrel	Hammer Data	140 lb. auto-hammer
Boring Location	N 245036 E 333438 (ft)	Groundwater Level(s)	Measured @ 8' on June 1		

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
0							53.8 0.2 2" TOPSOIL	Used 3" SPT to sample for SS1 to SS6	
		SS1	2 3 3	6	4		Dark brown, Silty SAND with Gravel (SM), fine to coarse grained, little fine to coarse subround to subangular gravel, little non-plastic fines, dry [FILL]		
		SS2	4 7 7 9	14	2		Yellowish brown, Poorly graded SAND (SP), fine to medium grained, few non-plastic fines, wet [FILL] becomes Light brown, trace non-plastic fines, wet		
	5	SS3	12 12 9 8	21	0		Light olive gray, Silty SAND (SM), fine to coarse grained, little non-plastic fines, few fine subrounded and subangular gravel, wet [FILL]	%G=10.7 %S=68.3 %F=21.0	
		SS4	8 10 15 22	25	4		Light gray, Poorly graded SAND with Silt and Gravel (SP-SM), medium to coarse grained, little fine to coarse subrounded to subangular gravel, few non-plastic fines, wet [FILL]		
	45	SS5	9 9 8 7	17	0		SS5A - Light gray, Poorly graded SAND with Silt and Gravel (SP-SM), medium to coarse grained, little fine to coarse subrounded to subangular gravel, few non-plastic fines, wet [FILL]	Probable Native	
	10						SS5B - Light brown Poorly graded SAND (SP), fine to medium grained, trace non-plastic fines, wet		
	40	SS6	4 4 4 6	8	0		Light brown, Poorly graded SAND (SP), fine to coarse grained, trace fine subangular to subrounded gravel, wet		
	15	SS7	5 3 3 6	6	5		Grayish brown, Silty SAND with Gravel (SM), fine to coarse grained, little fine subrounded gravel, wet	%G=21.8 %S=65.2 %F=13.0 Drove 3" SPT @ 15-17' to confirm material recovered in 13-15'	
	35	SS8	9 5 6 9	11	9		Light brown, Poorly graded SAND (SP), fine to coarse grained, trace non-plastic fines, wet		
	20								
	30	SS9	3 3 4 6	7	7		Light brown, Poorly graded SAND (SP), fine to medium grained, wet		
	25								



Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-107

Sheet 2 of 4

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE_SCANCARELL\OIONEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 7/15/2022 12:24:01 PM

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
25	30	SS10	3 4 4 5	8	9		Light brown, Poorly graded SAND (SP), fine to medium grained, wet	Switched from 5" casing to 4"	
20	35	SS11	5 7 9 9	16	11		Similar to SS10, wet		
15	40	SS12	3 7 5 6	12	11		Light olive brown, Poorly graded SAND (SP), fine to coarse grained, few fine subangular gravel, trace non-plastic fines, wet	%G=12.6 %S=84.8 %F=2.6	
10	45	SS13	3 4 6 6	10	9		Similar to SS12, wet		
5	50	SS14	8 4 6 7	10			Light brown, Well-graded SAND (SW), fine to coarse grained, trace fine to coarse gravel, wet		
0	55	SS15	5 9 6 8	15	11		Light brown, Poorly graded SAND (SP), fine to medium grained, wet		

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-107

Sheet 3 of 4

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE_SCANICARELLO\ONEEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 7/15/2022 12:24:01 PM

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
-4.2	58.0								
-5	60	SS16	6 11 12 15	23	15		Light reddish brown, Well-graded SAND (SW), fine to coarse grained, trace fine to coarse subrounded to subangular gravel, wet		
-9.2	63.0								
-10	65	SS17	5 7 11 12	18	3		Light brown, Poorly graded SAND (SP), fine to medium grained, wet	Gravel stuck in tip of sampler	
-14.2	68.0								
-15	70	SS18	8 9 10 15	19	13		Light grayish brown, Poorly graded SAND with Silt (SP-SM), fine to medium grained, few non-plastic fines, wet	%G=0.8 %S=88.8 %F=10.4	
-19.2	73.0								
-20	75	SS19	9 9 12 16	21	22		Light brown, Poorly graded SAND (SP), fine to medium grained, moist		
-25	80	SS20	7 6 9 16	15	19		Similar to SS19, wet		
-30	85	SS21	15 16 15 22	31	12		Light brown, Poorly graded SAND (SP), fine to medium grained, moist becomes gray, fine grained, trace non-plastic fines		

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-107

Sheet 4 of 4

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE_SCANCARELL\ONEEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 7/15/2022 12:24:01 PM

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
-35	90	SS22	35 18 14 15	32	7		34.2 - 88.0 Gray, Weathered Rock, trace fine to medium grained sand, moist	Bit grinding, weathered rock	
-40	95	SS23	18 60/2"	60/2"	5		39.2 - 93.0 Gray, Poorly graded SAND with Silt (SP-SM), fine to medium grained, few non-plastic fines, trace weathered rock, moist		
-45	100	C1	RQD = 69%		53		42.2 - 96.0 Medium strong to strong, fresh to slightly weathered, moderately fractured, dark grayish blue SANDSTONE, fine to coarse grained planar discontinuity Drill Rate (min/ft): 3:28, 3:17, 2:37, 1:39, 1:41 @ 97-98.6' moderately fractured, silt veins		
-50	105	C2	RQD = 33%		11		Similar to C1 Drill Rate (min/ft): 3:08 Medium strong to strong, fresh to slightly weathered, moderately fractured, dark grayish blue SANDSTONE, fine to coarse grained, planar discontinuity	@101' Core jammed	
-55		C3	RQD = 55%		59		Drill Rate (min/ft): 2:35, 2:17, 2:14, 2:26, 1:50 @ 104.7 becomes medium strong, fresh to slightly weathered, moderately fractured, dark gray, carboniferous SILTSTONE, aphanitic to medium grained	No water return, probable sand seam	
-60							53.2 - 107.0 Boring Terminated at 107 ft bgs		

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-108

Sheet 1 of 4

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE-SCANCARELLO\ONEEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 8/19/2022 1:52:17 PM

Date(s) Drilled	June 6 to 8, 2022	Logged By	E.daSilva	Checked By	B. Reyes
Drilling Method	Drive and Wash with 4" steel casing	Drill Bit Size/Type	Roller bits, Nx-sized core barrel	Total Depth of Borehole	93.5' bgs
Drill Rig Type	GTech GT8 Truck-mounted	Drilling Contractor	New England Boring Company	Surface Elevation	54.8 ft NAVD88
Borehole Backfill	Soil Cuttings	Sampling Method(s)	2" split spoon, Nx-sized core barrel	Hammer Data	140 lb. auto-hammer
Boring Location	N 244906 E 333491 (ft)	Groundwater Level(s)	Measured @ 11.3' on June 8		

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
0							54.8 54.3 6" TOPSOIL		
		SS1	7	18	24		Light brown, Poorly graded SAND (SP), fine to medium grained, trace fine to coarse subrounded to subangular gravel [FILL]		
		SS2	11	29	20		Light brown, Poorly graded SAND (SP), fine to medium grained, trace non-plastic fines [FILL]		
			14				Similar to SS2 [FILL]		
5		SS3	11	20	17		Light brown, Poorly graded SAND (SP), fine to medium grained, wet [FILL]	Safety hammer in upper 10'	
			10						
			10						
		SS4	9	16	24		Grayish brown, Poorly graded SAND (SP), fine grained, trace non plastic fines, wet	%G=0 %S=97.4 %F=2.6	
			8						
			8						
			7						
		SS5	6	9	20		Light brown, Poorly graded SAND (SP), fine to medium grained, trace non-plastic fines, wet		
			5						
			4						
10		SS6	3	6	14		Similar to SS6, wet		
			3						
			3						
			4						
15		SS7	3	5	12		Light brown, Poorly graded SAND (SP), fine to medium grained, wet		
			2						
			3						
			3						
20		SS8	3	8	11		Light brown, Poorly graded SAND (SP), fine to medium grained, trace non-plastic fines, wet		
			4						
			4						
			4						
25		SS9	4	8					



Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-108

Sheet 2 of 4

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE_SCANCARE\ELLOIONEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 8/19/2022 1:52:17 PM

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
		SS9	2	8					
25	30	SS10	4 6 7 8	13	8			Similar to SS9 - Light brown, Poorly graded SAND (SP), fine to medium grained, trace non-plastic fines, wet	
20	35	SS11	4 6 5 8	11	8			Similar to SS9	
15	40	SS12	3 5 6 9	11	13			Similar SS9	
10	45	SS13	6 6 7 11	13	14			Light brown, Poorly graded SAND (SP), fine grained, trace non-plastic fines, wet	
5	50	SS14	2 3 6 8	9	15			Grayish brown, Sandy SILT, moist (ML)	%G=0 %S=47.8 %F=52.2
0	55	SS15	7	17	14			Light brown, Poorly graded SAND (SP), fine to medium grained, moist	

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-108

Sheet 3 of 4

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE_SCANICARELLO\ONEEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 8/19/2022 1:52:17 PM

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
		SS15		8 9 9	17	14			Drilling mud used to keep the hole open
-5	60	SS16		5 7 7 8	14	18		Light brown, Poorly graded SAND (SP), fine to coarse grained, moist	
-10	65	SS17		8 7 6 8	13	18		Light brown, Poorly graded SAND (SP), fine to medium grained, trace non-plastic fines, moist	Drill bit grinding
-15	70	SS18		60/0"	0	0		No recovery	
-20	75	C1				25		Boulder	Probable boulder/cobble zone, top 2.5' normal core rate, bottom 2.5' no resistance
-25	80	SS19		3 3 10 15	13	8		Dark gray, Poorly graded SAND with Silt and Gravel (SP-SM), fine to coarse grained, few non-plastic fines, wet	%G=34.1 %S=59.9 %F=6
-30	85	C2		RQD = 95%		57		Medium strong to strong, fresh, slightly fracture, dark grayish SANDSTONE, medium grained Core Times (min/ft): 3:25, 3:21, 4:12, 4:25, 3:22	Tried to sample at 80' but spoon sitting up on possible running sands

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-108

Sheet 4 of 4

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE-SCANCARE\LOIONEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 8/19/2022 1:52:17 PM

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
			C2	RQD = 95%		57			
	90		C3	RQD = 95%		63		Similar to C1, @91.5 changed to a fine grained SANDSTONE, with no anthracite pieces Core Times (min/ft): 1:54, 1:26, 1:54, 2:07, 2:24	
								Boring Terminated at 93.5 ft bgs	



Report: GEO_CR_WITH_N_VALUE; File C:\USERS\DA SILVA\1\AECOM\285 ROUTE 37 OPENING THE CRANSTON CANYON - AECOM (RESTRICTED)\60680132 - AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD LAB DATA\BORING PROGRAM\INT LOGS\GROU

Project: RIDOT Bridge Group 51B Project Location: Cranston, RI Project Number: 60680132	<h2 style="margin: 0;">Log of Test Boring B-109</h2> <p style="margin: 0;">Sheet 1 of 4</p>
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Date(s) Drilled: June 17, 20, 23-24, 28-29, 2022	Logged By: R. Munschauer, T. Dwyer, E. daSilva	Checked By: K. Scancarello
Drilling Method: Drive and Wash with 3" & 4" steel casing	Drill Bit Size/Type: Roller bits, Nx-sized core barrel	Total Depth of Borehole: 101.5' bgs
Drill Rig Type: CME-75 Truck-mounted & Mobile B-53 Track-mounted	Drilling Contractor: New England Boring Company	Surface Elevation: 53.0 ft NAVD88
Borehole Backfill: Soil Cuttings	Sampling Method(s): 2" split spoon, Nx-sized core barrel	Hammer Data: 140 lb auto-hammer & Cathead
Boring Location: N 244961 E 333191 (ft)	Groundwater Level(s): Measured 6.4' on June 17	

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
0							53.0		
							52.6	5" TOPSOIL	0.0
		SS1	4	13	17		51.9	Brown, Well-graded SAND with Silt and gravel (SW-SM), fine to coarse grained, few fine to coarse grained subangular to subrounded gravel, few non-plastic fines, dry [FILL]	0.4
			6						1.1
		SS2	13	27	18			Light brown, Poorly graded SAND (SP), fine to medium grained, moist	
			14						
			11						
		SS3	3	10	19			Light brown, Poorly graded SAND (SP), fine to medium grained, moist	
			5						
			5						
			4						
		SS4	4	9	18			Light brown, Poorly graded SAND (SP), fine to medium grained, wet	▽
			5						
			3						
		SS5	2	4	16		45.0	Light brown, Poorly graded SAND with Silt (SP-SM), fine grained, wet	8.0
			2						
			2						
			2						
		SS6	4	6	13			Similar to SS5, wet	
			3						
			3						
			2						
		SS7	2	3	10		38.0	Light brown, Silty SAND (SM), fine grained, little fines, wet	15.0
			2						
			1						
			2						
		SS8	2	4	0			No Recovery	
			2						
			2						
			2						
		SS9	3	6	21			Similar to SS7, wet	

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-109

Sheet 2 of 4

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
25		SS9	3	3	6	21			
30		SS10	2 3 2 3	5	5	23		Light brown, Silty SAND (SM), fine grained, little fines, wet	
35		SS11	WOR 3 4 6	7	7	18		Similar to SS10, wet	
40		SS12	8 8 9 10	17	17	12		SS12A - Top 5" Similar to SS10, wet SS12B - Brown, Poorly graded GRAVEL with Silt and Sand (GP-GM), some coarse to fine sand, few fines, wet	%G=45.3 %S=44.6 %F=10.1
45		SS13	6 5 6 8	11	11	14		SS13A - Top 15.6" Brown, Well-graded SAND (SW), fine to coarse grained, trace fine grained subrounded to round gravel, wet SS13B - Bottom 8.4" Light brown, Poorly graded SAND (SP), fine grained, wet	
50		SS14	11 10 8 9	18	18	16		Brown, Well-graded SAND (SW), fine to coarse grained, trace fine grained round to subrounded gravel, wet	Driller attempted to drill open hole with the use of drilling mud but unsuccessful
55		SS15	11	21	21	15		Similar to SS14, wet	

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-109

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Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
-5		SS15	11 10 9	21	15				
60		SS16	4 5 6 11	11	12		Brown, Poorly graded SAND (SP), fine grained, trace non-plastic fines, wet	Running sands, SPT may have been influenced	
65		SS17	12 15 23 23	38	10		Similar to SS16, wet	Drove 4" casing to 64' then drove 3"	
70		SS18	4 5 5 12	10			Brown Silty SAND (SM), fine grained, little non-plastic fines, wet	%G=0.0 %S=53.4 %F=46.6 Running sands	
75		SS19	7 9 16 16	25	14		Similar to SS18, wet		
80		SS20	10 12 16 22	28	12		Similar to SS18, wet		
85		SS21	11 10 16	26	20		Top 19" Brown Silty SAND (SM), fine grained, little non-plastic fines, wet		

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-109

Sheet 4 of 4

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
-35				23				Bottom 1" Orange, Poorly graded SAND with Silt (SP-SM), fine to medium grained, trace non-plastic fines, wet	
90		SS22		10 65/5"	65/5"	5		Dark gray, Silty SAND (SM), fine grained, decomposed rock, little non-plastic fines, wet	
								Probable Boulder	
-40		C1		RQD = 58.3%		20			
95		C2		RQD = 0%		12		Medium strong to strong, fresh to slightly weathered, moderately to highly fractured, dark blueish gray, SANDSTONE, fine to medium grained	
								Core Times (min/ft): 2:05, 0:34, 2:58, 8:56	
-45		C3		RQD = 0%		22		Similar to C1, thin carboniferous schist interbedding	Core barrel jammed @ 96.5'
100								Core Times (min/ft): 11:59, 4:03, 0:22, 4:36, 4:39	Mechanical fractures over C2, C3
									Poor water return
-50								Boring Terminated at 101.5 ft bgs	
-55									
-60									

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\DA SILVA\1\AECOM\285 ROUTE 37 OPENING THE CRANSTON CANYON - AECOM (RESTRICTED)\60680132 - AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\IGNIT LOGS\GROU

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-110

Sheet 1 of 4

Date(s) Drilled	June 1 to 3, 2022	Logged By	E.daSilva	Checked By	K. Scancarello
Drilling Method	Drive and Wash with 4" & 5" steel casing	Drill Bit Size/Type	Roller bits, Nx-sized core barrel	Total Depth of Borehole	100.0' bgs
Drill Rig Type	Diedrich D120 Truck-Mounted	Drilling Contractor	New England Boring Company	Surface Elevation	52.5 ft NAVD88
Borehole Backfill	Soil Cuttings, Bagged Sand, Bentonite	Sampling Method(s)	2" split spoon, 3" spit spoon, Nx-sized core barrel	Hammer Data	140 lb. auto-hammer
Boring Location	N 244839 E 333229 (ft)	Groundwater Level(s)	Measured @ 7' on June 2, 7.3' on June 3		

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
0							52.5 6" TOPSOIL		
		SS1	6	23	20		52.0 Light brown, Silty SAND (SM), fine to medium grained, little non-plastic fines, trace fine to coarse grained subangular gravel, dry [FILL]		
		SS2	12 11 22	54	20		Light brown, Silty SAND (SM), fine to coarse grained, little non-plastics, trace fine to coarse gravel, dry [FILL]	Gravel stuck in tip	
		SS3	39 25 29 27	17	7		Gray, Silty SAND (SM), fine to coarse grained, little non-plastic fines, trace fine to coarse subangular gravel, dry [FILL]		
		SS4	13 12 5 3	2	11		46.0 SS4A Top 6" - Dark brown, Silty SAND with Gravel (SM), fine to medium grained, little non-plastic fines, little fine to coarse gravel, dry [FILL]	WC=24.6% %G=21.6 %S=51.8 %M=24.6 %C=2.0	
		SS5	3 1 1 WH	15	8		44.5 SS4B - Yellowish brown, Sandy SILT (ML), some fine to medium sand, wet	SS4B: WC= 27.1% %G = 4.4 %S = 45.6 %M =48.0 %C = 2.0	
		SS6	5 7 8 6	6	0		44.5 Light brown, Well-graded SAND with Silt (SW-SM), few non-plastic fines, few fine subrounded gravel, wet		
		SS7					39.5 Light brown, Well-graded SAND (SW), little fine to coarse subrounded gravel, trace non-plastic fines, wet	Gravel stuck in tip, drove 3" spoon	
		SS8	3 2 3 4	5	11		Light brown, Well-graded SAND (SW), fine to coarse grained, trace non-plastic fines, wet		
							29.5 Light brown, Poorly graded SAND (SP), fine grained, trace fine subrounded gravel, wet		
							23.0		



Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-110

Sheet 2 of 4

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
25									
	28.0	SS9	2 2 3 4	5	12		Grayish brown, Poorly graded SAND with Silt (SP-SM), fine grained, few non-plastic fines, wet	%G=1.2 %S=87.4 %F=11.4	
	30								
	20	SS10	3 4 5 4	9	15		Similar to SS9, wet		
	35								
	15	SS11	2 3 4 4	7	18		Similar to SS9, wet		
	40							Stopped driving 5" casing, switched to 4" casing	
	10	SS12	1 2 3 5	5	17		Similar to SS9, wet		
	45								
	5	SS13	3 2 6 7	8	14		Light brown, Poorly graded SAND (SP), trace non-plastic fines, wet		
	50							Drill bit grinding	
	0	SS14	21 18 10 9	28	8		Olive brown, Silty GRAVEL with Sand (GM), fine to coarse grained, little sand and non-plastic fines, wet	%G=58.7 %S=21.9 %M=18.4 %C=1.0 %F=19.4	
	55								

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-110

Sheet 3 of 4

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
-5									
	60	SS15	11 8 8 5	16	5		Gray, Well-graded SAND (SW), fine to coarse grained, trace non-plastic fines, wet	58.0	
	65	SS16	7 9 13 17	22	20		Similar to SS15, wet		
	70	SS17	6 7 11 13	18	18		Gray, Well-graded SAND (SW), fine to coarse grained, trace non-plastic fines, wet Light brown Poorly graded SAND (SP), fine grained, wet	68.8	
	75	SS19	4 5 8 10	13	5		Light brown, Silty SAND (SM), fine to coarse grained, little non-plastic fines, wet	73.0	
	80	SS20	4 7 8 11	15	13		Light yellowish brown, Silty SAND (SM), fine to coarse grained, little non-plastic fines, wet	%G=0.0 %S=78.9 %F=21.1	
	85	SS21	3 5 7 8	12	23		Similar to SS19, wet		

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring B-110

Sheet 4 of 4

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
-35		SS22	27	60/2"	60/2"	8		Gray, Silty SAND (SM), fine to medium grained, possible decomposed rock, moist [RESIDUUM]	
90		C1	RQD = 37.5%			27		Medium strong, fresh to slightly weathered, slightly fractured, light grayish blue, SANDSTONE, fine to coarse grained, wide discontinuities Core Times (min/ft): 2:45, 2:26, 1:20, 0:37, 1:31	Probable sand seam, mechanic fractures, poor water return
95		C2	RQD = 36%			30		Medium strong to strong, fresh, sections of highly weathered rock, slightly fractured, Dark grayish blue, SANDSTONE, fine to coarse grained Core Times (min/ft): 3:38, 3:03, 2:07, 1:18, 2:02	Poor water return, probable sand seam or completely weathered rock
100								Boring Terminated at 100 ft bgs	

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring RW-1

Sheet 1 of 5

Date(s) Drilled	June 16,17, 20-22, 2022	Logged By	M. Fasca, E.daSilva	Checked By	K. Scancarello
Drilling Method	Drive and Wash with 3" to 5" steel casing	Drill Bit Size/Type	Roller bits, Nx-sized core barrel	Total Depth of Borehole	123.0' bgs
Drill Rig Type	Strata Star 5 track mounted, CME 75 truck mounted	Drilling Contractor	New England Boring Company	Surface Elevation	64.0 ft NAVD88
Borehole Backfill	Soil Cuttings, Bagged Sand	Sampling Method(s)	2" split spoon, 3" spit spoon, Nx-sized core barrel	Hammer Data	140 lb. auto-hammer
Boring Location	N 243967 E 333171 (ft)	Groundwater Level(s)	Measured @ 14.3' on June 22		

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
0							64.0 TOPSOIL	0.0	
		SS1	5 12 14 16	26	23		63.0 Light brown, Silty SAND with Gravel (SM), fine to coarse grained, little non plastic fines, few fine subangular gravel, dry	1.0	
		SS2	9 10 10 11	20	17		Light brown Silty SAND (SM), medium to coarse grained, little non-plastic fines, trace fine subangular gravel, dry		
60		SS3	6 7 6 8	13	21		Light brown, Silty SAND (SM), fine to medium grained, non-plastic fines, trace subangular gravel, dry		
		SS4	8 8 12 11	20	18		Light brown, Silty SAND (SM), fine to medium grained, non-plastic fines, trace coarse gravel, dry		
		SS5	8 10 8 8	18	20		56.0 Brown, Poorly graded SAND with Silt (SP-SM), fine to coarse grained, few non-plastic fines, trace subangular gravel, dry	8.0	
10									
		SS6	6 5 4 4	9	6		Dark brown, Poorly graded SAND with Silt (SP-SM), medium to fine, few non-plastic fines, few coarse gravel, wet		%G=7.2 %S=86.7 %F=6.1
15									Used a 3" spoon
		SS7	7 3 4 6	7	0		No Recovery		No recovery using 3" spoon
20									
		SS8	8 16 13 11	29	8		41.0 Brown, Poorly graded SAND with Gravel (SP), fine to coarse grained subangular gravel, trace non-plastic fines, wet	23.0	
25									

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring RW-1

Sheet 2 of 5

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE_SCANCARELLO\ONEEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 11/18/2022 4:30:08 PM

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
35	30	SS9	16 12 15 48	27	4		Similar to SS8, wet		
30	35	SS10	31 28 26 18	54	8		Brown, Poorly graded GRAVEL with Silt and Sand (GP-GM), fine to coarse, little fine to coarse sand, few non-plastic fines, wet	%G=66.3 %S=26.2 %F=7.2	
25	40	SS11	16 11 12 33	23	9		Dark brown, Poorly graded SAND (SP), fine grained, trace non-plastic fines, wet		
20	45	SS12	13 15 15 18	30	3		Dark brown, Poorly graded SAND (SP), fine to medium grained, trace non-plastic fines, wet		
15	50	SS13	15 11 10 16	21	5		Brown, Poorly graded SAND (SP), fine to medium grained, trace non-plastic fines, wet		
10	55	SS14	12 14 17 24	31	12		Light brown, Poorly graded SAND (SP), fine to medium grained, trace non-plastic fines, wet		

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring RW-1

Sheet 3 of 5

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE.SCANCARELLO\IONEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 11/18/2022 4:30:08 PM

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
-5	60	SS15		28 6 5 12	11	5		Brown, Poorly graded SAND (SP), fine to coarse grained, trace non-plastic fines, trace fine subangular gravel, wet	
-0	65	SS16		16 20 60 73	80	2		Similar to SS15, wet	
-5	70	SS17		7 6 8 11	14	5		Brown, Poorly graded SAND (SP), fine to medium grained, trace non-plastic fines, wet	
-10	75	SS18		10 9 12 14	21	0		Light brown, Silty SAND (SM), medium to fine, few non-plastic fines, wet	%G=1.7 %S=85.9 %F=12.4
-15	80	SS19		13 13 16 22	29	0		No recovery	No recovery with 2" spoon so sampled with 3" spoon
-20	85	SS20		11 18 21 21	39	12		Light brown, Poorly graded SAND (SP), fine to coarse grained, trace fine to coarse gravel, wet	

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring RW-1

Sheet 4 of 5

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE-SCANCARELLO\ONEEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 11/18/2022 4:30:08 PM

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
-25	90	SS21	14 13 16 17	29	11		Gray, Poorly graded SAND (SP), fine to coarse grained, trace non-plastic fines, wet	Washed down to 90'; Running sands, Telescoping 3" casing	
-30	95	SS22	34 25 24 29	49	11		Light brown, Poorly graded SAND (SP), fine to coarse grained, few gravel, wet		
-35	100	SS23	33 25 20 18	45	6		Light brown, Silty GRAVEL (GM), trace fine to coarse grained sand, wet		
-40	105	SS24	45 67 70/4"	70/4"	0		No recovery	Drill rig chatter	
-45	110	SS25	35 27 17 20	44	6		Dark reddish brown, Silty GRAVEL (GM), trace fine to medium grained sand, wet		
-50	115	SS26	45 70 50/2"	50/2"			Dark gray, Residual Soil as Silty SAND (SM), decomposed rock, wet	Water return color change to a dark gray	

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring RW-1

Sheet 5 of 5

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE_SCANICARELLO\ONE\DRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 11/18/2022 4:30:08 PM

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
-55	120	SS27		30 35 60/1"	60/1"	11		Similar to SS26, wet	
		SS28		60/1"	60/1"	1		Dark gray/black residual soil	
		C1		RQD = 0%	0	0			Attempted to core from 121 to 123', no water return, no recovery. Trace material in cutter is Residual Soil
-60								Boring Terminated at 123 ft bgs	
-65									
-70									
-75									
-80									

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring RW-2

Sheet 1 of 3

Date(s) Drilled	October 11, 12, 2022	Logged By	R. Munschauer	Checked By	K. Scancarello
Drilling Method	Drive and Wash 4" steel casing	Drill Bit Size/Type	Roller bits	Total Depth of Borehole	60.0' bgs
Drill Rig Type	Diedrich D120	Drilling Contractor	New England Boring	Surface Elevation	56.5 ft NAVD88
Borehole Backfill	Soil Cuttings, Bagged Sand	Sampling Method(s)	2" split spoon, 3" spit spoon	Hammer Data	140 lb auto-hammer
Boring Location	N 244078 E 333155 (ft)	Groundwater Level(s)	Measured @ 11.2' on October 12		

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
0									
		SS1	5	5	17	14		Dark brown, Sandy SILT with Gravel (ML), non-plastic, little fine to coarse sand, little fine to coarse subrounded to subangular gravel, dry [FILL]	
			12						
		SS2	7	5	11	19		SS2A Top 13" - Similar to SS1, dry	
			6						
			15					SS2B Bottom 6" - Brown to gray, Silty SAND (SM), fine to coarse grained, some non-plastic fines, trace fine to coarse subangular gravel, dry	
5		SS3	14	22	43	16			
			21						
			16						
		SS4	9	7	12	15		SS4A Top 10" - Brown, Silty SAND (SM), fine to coarse grained, some non-plastic fines, dry	
			5						
			5					SS4B Bottom 5" - Brown, Sandy SILT (ML), non-plastic, some fine sand, dry	%G=7.0 %S=28.1 %M=60.0 %C=5.0
		SS5	WOR		0	12		Dark brown, ORGANIC SILT (OH), medium plasticity, little Peat, few fine to medium sand, wet	LL=57.0 PL=42.0 PI=15.0 %G=2.1 %S=12.1 %M=75.0 %C=11.0 %F=53.2 Organic Content = 9.1%
			WOH						
			2						
10									
		SS6	7	5	11	18		Light greenish brown, SILT with Sand (ML), non-plastic, little fine sand, trace organics, wet	
			5						
			6						
			9						
15									
		SS7	12	12	26	0		Brown, Silty SAND with Gravel (SM), fine to coarse grained, little non-plastic fines, little fine to coarse subrounded to subangular gravel, wet	No recovery with 2" SPT took additional sample via 3" SPT
			14						
			11						
20									
		SS8	4	4	10	9		Brown to light brown, Poorly graded SAND with Silt and Gravel (SP-SM), fine to coarse grained, some fine to coarse subrounded gravel, few non-plastic fines, wet	%G=33.2 %S=56.0 %F=11.0
			6						
			7						
25									



Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE.SCANCARELLO\DRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 11/18/2022 4:30:18 PM

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring RW-2

Sheet 2 of 3

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE.SCANCARELLO\ONEEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 11/18/2022 4:30:18 PM

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
30	28.5 - 28.0	SS9	5 6 5 5	11	0		Brown to light brown, Well-Graded SAND with Gravel (SW), fine to coarse grained, little fine to coarse subrounded gravel, trace non-plastic fines, wet	No recovery with 2" SPT took additional sample via 3" SPT	
35	35.0 - 34.5	SS10	4 4 6 5	10	12		Light brown, Well-Graded SAND (SW), fine to coarse grained, few fine subrounded to round gravel, trace non-lastic fines, wet		
40	40.0 - 38.5	SS11	18 16 10 8	26	11		SS11 Top 2" - Similar to SS10, wet SS11 Bottom 9" - Brown, Poorly graded SAND with Silt and Gravel (SP-SM), fine to coarse grained, little non-plastic fines, little fine to coarse angular to subangular gravel, wet		
45	43.0 - 41.5	SS12	6 5 6 8	11	12		Brown, Poorly graded SAND with Silt and Gravel (SP-SM), fine to coarse grained, little fine to coarse angular to subangular gravel, few non-plastic fines, wet	%G=27.0 %S=65.2 %F=7.8 SS12 had a piece of gravel wedge in shoe	
50	48.0 - 48.5	SS13	8 5 7 7	12	0		Grayish brown, Well-Graded SAND (SW), few fine to coarse subrounded to subangular gravel, trace non-plastic fines, wet	No recovery with 2" SPT took additional sample via 3" SPT	
55	55.0 - 54.5	SS14	4 4 5 5	9	10		Similar to SS13, wet		

Project: RIDOT Bridge Group 51B


Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring RW-2

Sheet 3 of 3

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE-SCANCARE\LOIONEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 11/18/2022 4:30:18 PM

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
0									
		SS15	4 3 4 4	7	7			Brown, Well-Graded SAND (SW), few fine to coarse subrounded gravel, few fines, wet	
60									
							Boring Terminated at 60 ft bgs		
-5									
-10									
-15									
-20									
-25									
-30									

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring RW-3

Sheet 1 of 3

Date(s) Drilled	June 10, 2022	Logged By	E.daSilva	Checked By	K. Scancarello
Drilling Method	Drive and Wash with 4" steel casing	Drill Bit Size/Type	Roller bits, Nx-sized core barrel	Total Depth of Borehole	62.0' bgs
Drill Rig Type	GTech GT8	Drilling Contractor	New England Boring Company	Surface Elevation	57.2 ft NAVD88
Borehole Backfill	Soil Cuttings	Sampling Method(s)	2" split spoon	Hammer Data	140 lb auto-hammer
Boring Location	N 244,240.8627 E 333,358.3907	Groundwater Level(s)	Measured @ 13' taken on June 10, 2022		

Report: GEO_CR: File C:\USERS\KATIE.SCANCARELLO\ONEEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 11/18/2022 4:40:01 PM

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	Water Content, %	REMARKS AND OTHER DETAILS
		Type	Number	Sampling Resist. Blows/6" OR CORE% RQD	Recovery, %	PP and TV (tsf)				
0							57.2	0.0		
		SS1	4	12	19		56.7	0.5	Top 6" Light brown, Silty SAND with Gravel (SM), trace organics, dry	
			12						Light brown, Poorly graded SAND (SP), fine to coarse grained, trace non-plastic fines, trace gravel, dry	
			12						Light brown, Poorly graded SAND (SP), fine to medium grained, dry	
55		SS2	18	12	16				Light brown, Poorly graded SAND (SP), fine to medium grained, dry	
			18						Light brown, Poorly graded SAND (SP), fine to medium grained, dry	
			12						Similar to SS2, trace fine to coarse gravel, dry	
			15						Similar to SS2, trace fine to coarse gravel, dry	
5		SS3	17	15	20				Similar to SS2, trace fine to coarse gravel, dry	
			17						Similar to SS2, dry	
			13						Similar to SS2, dry	
50		SS4	9	13	16				Similar to SS2, trace fine to coarse gravel, dry	
			9						Similar to SS2, trace fine to coarse gravel, dry	
			10						Similar to SS2, trace fine to coarse gravel, dry	
		SS5	8	8	12				Similar to SS2, trace fine to coarse gravel, dry	
			9						Similar to SS2, trace fine to coarse gravel, dry	
			6						Similar to SS2, trace fine to coarse gravel, dry	
10		SS6	3	4	10				Light brown, Poorly graded SAND (SP), fine to medium grained, trace fine gravel, dry	
			4						Light brown, Poorly graded SAND (SP), fine to medium grained, trace fine gravel, dry	
			9						Light brown, Poorly graded SAND (SP), fine to medium grained, trace fine gravel, dry	
			12						Light brown, Poorly graded SAND (SP), fine to medium grained, trace fine gravel, dry	
45									Water table symbol	
15		SS7	3	4	7		42.2	15.0	Light brown, Poorly graded SAND with Silt (SP-SM), fine to coarse grained, few non-plastic fines, trace gravel, wet	
			4						Light brown, Poorly graded SAND with Silt (SP-SM), fine to coarse grained, few non-plastic fines, trace gravel, wet	
			4						Light brown, Poorly graded SAND with Silt (SP-SM), fine to coarse grained, few non-plastic fines, trace gravel, wet	
			4						Light brown, Poorly graded SAND with Silt (SP-SM), fine to coarse grained, few non-plastic fines, trace gravel, wet	
40										
20		SS8	3	4	11		37.2	20.0	Light brown, Poorly graded SAND (SP), fine to coarse grained, wet	
			4						Light brown, Poorly graded SAND (SP), fine to coarse grained, wet	
			4						Light brown, Poorly graded SAND (SP), fine to coarse grained, wet	
			5						Light brown, Poorly graded SAND (SP), fine to coarse grained, wet	
35										
25		SS9	4		7				Similar to SS8, wet	

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring RW-3

Sheet 2 of 3

Report: GEO_CR: File C:\USERS\KATIE.SCANCARELLO\ONEEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 11/18/2022 4:40:01 PM

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	Water Content, %	REMARKS AND OTHER DETAILS
		Type	Number	Sampling Resist. Blows/6" OR CORE% ROD	Recovery, %	PP and TV (tsf)				
30		SS9	5 6 6	7						
30		SS10	4 5 5 6	11			Light brown, Silty SAND (SM), fine grained, little non-plastic fines, wet		%G=0 %S=84.5 %F=15.5	
35		SS11	5 6 7 8	17			Light brown, Silty SAND (SM), fine grained, little non-plastic fines, wet			
40		SS12	5 6 8 7	12			Light brown, Silty SAND (SM), fine grained, little non-plastic fines, wet			
45		SS13	1 3 4 5	14			Light brown, Silty SAND (SM), fine grained, little non-plastic fines, wet			
50		SS14	3 5 5 6	14			Similar to SS13, wet			
55		SS15	3	14			Light brown, Silty SAND (SM), fine grained, little non-plastic fines, wet		%G=0 %S=71.6 %F=28.4	

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring RW-3

Sheet 3 of 3

Report: GEO_CR; File C:\USERS\KATIE.SCANCARELLO\ONEEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 11/18/2022 4:40:01 PM

Elevation, feet	Depth, feet	SAMPLES					MATERIAL DESCRIPTION	Water Content, %	REMARKS AND OTHER DETAILS
		Type	Number	Sampling Resist. Blows/6" OR CORE% ROD	Recovery, %	PP and TV (tsf)			
0		SS15	4 4 6	14					
60		SS16	6 7 8 10	11			Light brown, Silty SAND (SM), fine grained, little non-plastic fines, wet		
-5							Boring Terminated at 62' bgs	62.0	

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring RW-4

Sheet 1 of 3

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE.SCANCARELLO\ONEEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 11/18/2022 4:30:30 PM

Date(s) Drilled	June 8, 10, 2022	Logged By	R. Munschauer	Checked By	K. Scancarello
Drilling Method	Drive and Wash with 4" steel casing	Drill Bit Size/Type	Roller bits, Nx-sized core barrel	Total Depth of Borehole	60.0' bgs
Drill Rig Type	Strata Star 5 Track mounted	Drilling Contractor	New England Boring Company	Surface Elevation	57.1 ft NAVD88
Borehole Backfill	Soil Cuttings, Bagged Sand	Sampling Method(s)	2" split spoon	Hammer Data	140 lb auto-hammer
Boring Location	N 244328 E 333366 (ft)	Groundwater Level(s)	Undetermined		

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
0							57.1 56.9 56.1	2" TOPSOIL	Took extra 3" SPT 0-2 for environmental samples
		SS1	6	23	20		0.2 1.0	SS1A - Top 10" Dark brown, Silty SAND with Gravel (SM), fine to coarse grained, little non-plastic fines, little coarse gravel [FILL] SS1B - Bottom 8" Light brown, Poorly graded SAND with Silt (SP-SM), fine to medium grained, few fine to coarse round to subrounded gravel, few non-plastic fines	
-55		SS2	16 20 21 20	41	20			Light brown, Poorly graded SAND with Silt (SP-SM), fine to medium grained, few fine to coarse round to subrounded gravel, few non-plastic fines	
-5		SS3	9 12 9 8	21	20			Light brown, Poorly graded SAND with Silt (SP-SM), fine to medium grained, few non-plastic fines, trace fine to coarse round subrounded gravel	
-50		SS4	5 5 5 7	10	23			Similar to SS3	%G=0.6 %S=87.6 %F=11.8
-10		SS5	10 8 13 9	21	17				Switched to drive and wash
-45									
-15		SS6	23 30 33 28	63	19		43.6	Brown, Well-graded SAND with Gravel (SW), fine to coarse grained, little subrounded fine to coarse gravel	
-40									
-20		SS7	6 10 4 6	14	7		39.1	Brown, Poorly graded SAND with Gravel (SP), medium to coarse grained, little, fine to coarse subrounded gravel	
-35									
-25		SS8	13 8 8 8	16	6		31.1	Similar to SS7	

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring RW-4

Sheet 2 of 3

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE_SCANCARELLO\ONEEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 11/18/2022 4:30:30 PM

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
30	30	SS9	6 17 7 9	24	4		Brown, Poorly graded SAND with Silt and Gravel (SP-SM), fine to coarse grained, little fine subrounded to round gravel, few non-plastic fines		
35	35	SS10	16 8 8 13	16	7		Brown, Poorly graded SAND with Silt and Gravel (SP-SM), fine to coarse grained, little fine subrounded to round gravel, few non-plastic fines	%G=22.8 %S=69.3 %F=7.9 Driller added mud to help with wash out	
40	40	SS11	9 15 11 11	26	7		Brown, Poorly graded SAND with Silt and Gravel (SP-SM), medium to coarse grained, little fine to coarse gravel, few non-plastic fines		
45	45	SS12	8 7 8 9	15	20		Brown, Poorly graded SAND with Silt (SP-SM), fine to medium grained, few non-plastic fines, trace subrounded gravel Brown, SILT with Sand (ML), non-plastic, little fine sand		
50	50	SS13	10 5 6 15	11	16		Brown, SILT with Sand (ML), non-plastic, little fine sand	%G=0.0 %S=19.0 %M=81.0 %C=0.0	
55	55	SS14	8 10 9 10	19	15		Brown, SILT with Sand (ML), non-plastic, little fine sand		

Project: RIDOT Bridge Group 51B

Project Location: Cranston, RI

Project Number: 60680132

Log of Test Boring RW-4

Sheet 3 of 3

Report: GEO_CR_WITH_N_VALUE; File C:\USERS\KATIE-SCANCARE\LOIONEDRIVE - AECOM\AECOM (RESTRICTED)\400-TECHNICAL\440 FIELD_LAB DATA\BORING PROGRAM\GINT LOGS\GROUP 51B LOGS.GPJ; 11/18/2022 4:30:30 PM

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
0									
		SS15	15 13 11 22	24	20			Brown, SILT with Sand (ML), non-plastic, little fine sand	
60								Boring Terminated at 60 ft bgs	
-5									
-10									
-15									
-20									
-25									

Project: RIDOT Bridge Group 51B Project Location: Cranston, RI Project Number: 60680132	<h2 style="margin: 0;">Log of Test Boring SB-6</h2> <p style="margin: 0;">Sheet 1 of 1</p>
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Date(s) Drilled: October 13, 2022	Logged By: R. Munschauer	Checked By: K. Scancarello
Drilling Method: Drive and Wash 4" steel casing	Drill Bit Size/Type: Roller bits, Nx-sized core barrel	Total Depth of Borehole: 16.5' bgs
Drill Rig Type: Diedrich D120	Drilling Contractor: New England Boring	Surface Elevation: 297.6 ft NAVD88
Borehole Backfill: Soil Cuttings, Bagged Sand	Sampling Method(s): 2" split spoon	Hammer Data: 140 lb auto-hammer
Boring Location: N 255596 E 327116 (ft)	Groundwater Level(s): Measured @ 9' on October 13	

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
0	0	SS1	5 9 12 31	21	18		297.6 SS1 Top 8" - Dark brown, Silty SAND (SM), fine to coarse grained, some fines, few fine subrounded gravel 296.9 Bottom 10" - Light yellow/Brown, Sand SILT with Gravel (ML), non-plastic fines, some fine to coarse sand, little fine to coarse subangular gravel, moist Similar to SS1 Bottom 10"	Took 3" SPT from 0-2	
-295	3	SS2	20 34 34 30	68	21				
5	5	SS3	10 60/4"	60/4"	9		Light yellow/brown, Silt with Sand (ML), non-plastic fines, little fine to medium sand, trace fine angular gravel, dry	%G=2.1 %S=40.5 %M=45.4 %C=12 @6' Obstruction prevented SPT at interval, probable boulder	
-290	10	SS4	40 39 36 26	75	15		Light yellow/brown, Sandy SILT with Gravel (ML), non-plastic fines, some fine to coarse sand, little fine to coarse angular to subangular gravel, moist		
-285	15	SS5	50/3"	50/3"	2		284.6 Light gray, Saprolite as SILT with Gravel, non-plastic fines, little fine to coarse sand, moist	Driller noted increase in resistance	
15	15	C1	RQD = 0/24		14		283.1 C-1 - Top 10" Saprolite C-1 - Bottom 14" Very weak to med strong, slightly weathered GRANITE [Scituate], medium to coarse grained 281.1		
-280	16.5						Boring Terminated at 16.5 ft bgs		
-275									

Project: RIDOT Bridge Group 51B Project Location: Cranston, RI Project Number: 60680132	Log of Test Boring SB-9 Sheet 1 of 1
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Date(s) Drilled: October 13, 2022	Logged By: R. Munschauer	Checked By: K. Scancarello
Drilling Method: Drive and Wash 4" steel casing	Drill Bit Size/Type: Roller bits, Nx-sized core barrel	Total Depth of Borehole: 12.0' bgs
Drill Rig Type: Diedrich D120	Drilling Contractor: New England Boring	Surface Elevation: 290.4 ft NAVD88
Borehole Backfill: Soil Cuttings, Bagged Sand, Asphalt cold patch	Sampling Method(s): 2" split spoon	Hammer Data: 140 lb auto-hammer
Boring Location: N 266216 E 325556 (ft)	Groundwater Level(s): Measured @ 9.5' on October 13	

Elevation, feet	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER DETAILS
		Type	Number	SPT Blows/6 in.	SPT N-Value (Uncorrected)	Recovery, in			
290	0						290.4 ASPHALT 0.0		
		SS1	14	50/3"	50/3"	7	289.7 289.5 SS1 Top 3" - Light gray, Well-graded SAND (SW), fine to coarse grained, few fine subangular gravel [FILL] SS1 Bottom 4" - Grayish brown to light brown, Well-graded SAND with Gravel and Silt (SW-SM), fine to coarse grained, little fine to coarse angular subrounded gravel, few fines	Took 3" SPT 1-3 Obstruction at 2' rolled down to 6'	
	5	SS2	6	8	16	11	283.4 SS2 Top 9" - Similar to above, Light brown	%G=22.9 %S=67.2 %F=9.9	
		SS3	30	18	50/3"	9	282.4 SS2 Bottom 2" - Light yellow/brown, Well-graded GRAVEL with Silt and Sand (GW-GM), fine to coarse gravel, little fine to coarse sand, few non-plastic fines		
	10	C1	RQD = 26/26			26	281.1 Brown, Well-graded SAND with Silt and Gravel (SW-SM), fine to coarse grained, little fine to coarse angular to subrounded gravel, few non-plastic fines Very strong, fresh, light gray, GABBRO [Scituate], fine to medium grained Core times (min/ft): 3:75, 4:00	Roller to 10' to start core	
							278.4 Boring Terminated at 12 ft bgs		
275									
270									
265									