

Test Pit Location: See Plan

Date Start / Finish: March 6, 2020

Ground Surface El. / Datum: TBD

Conditions: Clear, 40 deg. F

Excavator Type: JD 410L Backhoe

Excavator Reach: Approx. 10-feet

Operator: South Kingstown - Department of Public Works

JCE Rep.: Daniel R. DeCesaris (RI P.E. No. 10162)

# TH-1

Page 1 of 1

Depth (ft)	Sample Type/No.	Layer	Remarks	Soil and Rock Description	Estimated Hydraulic Conductivity
1		TS		(0 - 3"): TOPSOIL	
		FILL		(3 - 14"): SILTY SAND (SM); Brown, dry, ~75% fine to medium sand, ~15% nonplastic fines, ~10% fine to coarse gravel. (Fill).	N/A
2		GLACIAL DEPOSITS		(14 - 36"): SILTY SAND WITH GRAVEL (SM); Brown, dry, ~65% fine to coarse sand, ~20% fine to coarse gravel, ~15% nonplastic fines. (Loamy Sand).	HSG B (2.41 in/hr)
3			Heavy oxidation observed at 40".	(36 - 60"): SILTY SAND (SM); Brown and gray with occasional iron-oxide staining below 40", moist, ~60% fine sand, ~30% nonplastic fines, ~10% fine gravel. (Sandy Loam).	HSG B (1.02 in/hr)
4				(60 - 108"): SILTY SAND WITH GRAVEL (SM); Brown, wet, ~60% fine to coarse sand, ~20% fine to coarse gravel, ~20% nonplastic fines. (Gravelly Loamy Sand).	
5			Groundwater seepage observed at 87".		HSG B (2.41 in/hr)
6					
7					
8					
9					
10				Bottom of test hole at 108"; heavy groundwater seepage, unable to advance further. Open excavation backfilled with previously excavated material upon completion.	
11					
12					

**Notes:**

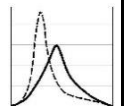
SHWT: 40-inches

Impervious/Limiting Layer Depth: Not Encountered

Project Name: SK Schools - Curtis Corner Middle School

Project Number: 14-30ak

**JOE CASALI ENGINEERING, INC.**



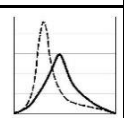
Test Pit Location: See Plan  
 Ground Surface El. / Datum: TBD  
 Excavator Type: JD 410L Backhoe  
 Operator: South Kingstown - Department of Public Works

Date Start / Finish: March 6, 2020  
 Conditions: Clear, 40 deg. F  
 Excavator Reach: Approx. 10-feet  
 JCE Rep.: Daniel R. DeCesaris (RI P.E. No. 10162)

Depth (ft)	Sample Type/No.	Layer	Remarks	Soil and Rock Description	Estimated Hydraulic Conductivity
0		TS		(0 - 3"): TOPSOIL	N/A
1		GLACIAL DEPOSITS	Heavy oxidation observed at 36".	(3 - 24"): SILTY SAND WITH GRAVEL (SM); Brown, dry, ~65% fine to medium sand, ~20% nonplastic fines, ~15% fine to coarse gravel. ( <i>Loamy Sand</i> ).	HSG B (2.41 in/hr)
2				(24 - 56"): SILTY SAND (SM); Gray/brown, heavy oxidation staining prevalent below 36", moist, ~60% fine sand, ~30% nonplastic fines, ~10% fine to coarse gravel. ( <i>Sandy Loam</i> ).	HSG B (1.02 in/hr)
3				(56 - 96"): SILTY SAND WITH GRAVEL (SM); Gray/brown, wet, ~55% fine to coarse sand, ~25% nonplastic fines, ~20% fine to coarse gravel. ( <i>Gravelly Loamy Sand</i> ).	HSG B (2.41 in/hr)
4					
5					
6					
7			Heavy groundwater seepage observed at 88".		
8					
9				Bottom of test hole at 96"; heavy groundwater seepage, unable to advance further. Open excavation backfilled with previously excavated material upon completion.	
10					
11					
12					

**Notes:**

SHWT: 36-inches  
 Impervious/Limiting Layer Depth: Not Encountered  
 Project Name: SK Schools - Curtis Corner Middle School  
 Project Number: 14-30ak  
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Test Pit Location: See Plan

Date Start / Finish: March 6, 2020

Ground Surface El. / Datum TBD

Conditions: Clear, 40 deg. F

Excavator Type: JD 410L Backhoe

Excavator Reach: Approx. 10-feet

Operator: South Kingstown - Department of Public Works

JCE Rep.: Daniel R. DeCesaris (RI P.E. No. 10162)

# TH-3

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Depth (ft)	Sample Type/No.	Layer	Remarks	Soil and Rock Description	Estimated Hydraulic Conductivity
1		FILL		(0 - 2"): GRAVEL ACCESS ROAD (2 - 30"): SILTY SAND (SM); Gray, dry, ~65% fine sand, ~30% nonplastic fines, ~5% fine gravel. (Fill.)	N/A
2					
3				(30 - 80"): SILTY SAND WITH GRAVEL (SM); Gray, dry, ~70% fine to medium sand, ~15% nonplastic fines, ~15% fine to coarse gravel. (Fill.)	
4					
5					
6					
7		GLACIAL DEPOSITS		(80 - 115"): SILTY SAND WITH GRAVEL (SM); Brown, dry, ~60% fine to medium sand, ~20% nonplastic fines, ~20% fine to coarse gravel. (Gravelly Loamy Sand).	HSG B (2.41 in/hr)
8					
9					
10					
11					
12					
				Bottom of test hole at 115". Open excavation backfilled with previously excavated material upon completion.	

**Notes:**

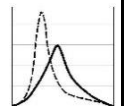
SHWT: Not Encountered

Impervious/Limiting Layer Depth: Not Encountered

Project Name: SK Schools - Curtis Corner Middle School

Project Number: 14-30ak

**JOE CASALI ENGINEERING, INC.**



Test Pit Location: See Plan

Date Start / Finish: March 6, 2020

Ground Surface El. / Datum TBD

Conditions: Clear, 40 deg. F

Excavator Type: JD 410L Backhoe

Excavator Reach: Approx. 10-feet

Operator: South Kingstown - Department of Public Works

JCE Rep.: Daniel R. DeCesaris (RI P.E. No. 10162)

# TH-4

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Depth (ft)	Sample Type/No.	Layer	Remarks	Soil and Rock Description	Estimated Hydraulic Conductivity
0		TS		(0 - 6"): TOPSOIL	
1		FILL		(6 - 28"): SILTY SAND WITH GRAVEL (SM); Brown, dry, ~65% fine to coarse sand, ~20% fine to coarse gravel, ~15% nonplastic fines. (Fill).	N/A
2					
3				(28 - 120"): SILTY SAND WITH GRAVEL (SM); Brown, dry, ~60% fine to coarse sand, ~25% fine to coarse gravel, ~15% nonplastic fines. (Gravelly Loamy Sand).	
4					
5					
6		GLACIAL DEPOSITS			HSG B (2.41 in/hr)
7					
8					
9					
10					
11				Bottom of test hole at 120". Open excavation backfilled with previously excavated material upon completion.	
12					

**Notes:**

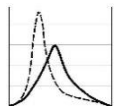
SHWT: Not Encountered

Impervious/Limiting Layer Depth: Not Encountered

Project Name: SK Schools - Curtis Corner Middle School

Project Number: 14-30ak

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Test Pit Location: See Plan

Date Start / Finish: March 6, 2020

Ground Surface El. / Datum: TBD

Conditions: Clear, 40 deg. F

Excavator Type: JD 410L Backhoe

Excavator Reach: Approx. 10-feet

Operator: South Kingstown - Department of Public Works

JCE Rep.: Daniel R. DeCesaris (RI P.E. No. 10162)

# TH-5

Depth (ft)	Sample Type/No.	Layer	Remarks	Soil and Rock Description	Estimated Hydraulic Conductivity
1		TS	Occasional cobbles/boulders observed throughout; Max. size = 24"	(0 - 6"): TOPSOIL	N/A
2				(6 - 36"): SILTY SAND WITH GRAVEL (SM); Brown, dry, ~65% fine to coarse sand, ~20% nonplastic fines, ~15% fine to coarse gravel. (Fill).	
3				(36 - 40"): SILTY SAND (SM); Dark brown, dry, ~60% fine to medium sand, ~40% nonplastic fines. (Buried Topsoil).	
4				(40 - 70"): SILTY SAND WITH GRAVEL (SM); Brown, dry, ~70% fine to medium sand, ~15% nonplastic fines, ~15% fine to coarse gravel. (Loamy Sand).	
5			Heavily oxidized zone observed at (70-78")	(70 - 78"): POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); Oxidized; Reddish brown, dry, ~70% fine to coarse sand, ~20% fine to coarse gravel, ~10% nonplastic fines. (Gravelly Loamy Sand).	HSG B (2.41 in/hr)
6				(78 - 120"): SILTY SAND WITH GRAVEL (SM); Brown/gray, dry, ~55% fine to coarse sand, ~25% fine to coarse gravel, ~20% nonplastic fines. (Gravelly Loamy Sand).	
7					
8					
9					
10					
11				Bottom of test hole at 120". Open excavation backfilled with previously excavated material upon completion.	
12					

**Notes:**

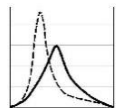
SHWT: 70-inches

Impervious/Limiting Layer Depth: Not Encountered

Project Name: SK Schools - Curtis Corner Middle School

Project Number: 14-30ak

**JOE CASALI ENGINEERING, INC.**



Test Pit Location: See Plan

Date Start / Finish: March 6, 2020

Ground Surface El. / Datum: TBD

Conditions: Clear, 40 deg. F

Excavator Type: JD 410L Backhoe

Excavator Reach: Approx. 10-feet

Operator: South Kingstown - Department of Public Works

JCE Rep.: Daniel R. DeCesaris (RI P.E. No. 10162)

# TH-6

Page 1 of 1

Depth (ft)	Sample Type/No.	Layer	Remarks	Soil and Rock Description	Estimated Hydraulic Conductivity
1		TS		(0 - 3"): TOPSOIL (3 - 56"): SILTY SAND WITH GRAVEL (SM); Brown/gray, dry, ~55% fine to coarse sand, ~30% fine to coarse gravel, ~15% nonplastic fines. (Gravelly Loamy Sand) .	N/A
2			Occasional cobbles/boulders observed throughout; Max. size = 30".		
3					
4					HSG B (2.41 in/hr)
5			Oxidation observed at 56".	(56 - 86"): SILTY SAND WITH GRAVEL (SM); Brown/gray, dry, ~45% fine to coarse sand, ~35% fine to coarse gravel, ~20% nonplastic fines. (Gravelly Loamy Sand).	
6					
7					
8				Bottom of test hole at 86"; unable to advance further due to difficult excavator access. Open excavation backfilled with previously excavated material upon completion.	
9					
10					
11					
12					

**Notes:**

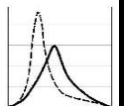
SHWT: 56-inches

Impervious/Limiting Layer Depth: Not Encountered

Project Name: SK Schools - Curtis Corner Middle School

Project Number: 14-30ak

**JOE CASALI ENGINEERING, INC.**



Test Pit Location: See Plan

Date Start / Finish: March 6, 2020

Ground Surface El. / Datum: TBD

Conditions: Clear, 40 deg. F

Excavator Type: JD 410L Backhoe

Excavator Reach: Approx. 10-feet

Operator: South Kingstown - Department of Public Works

JCE Rep.: Daniel R. DeCesaris (RI P.E. No. 10162)

# TH-7

Depth (ft)	Sample Type/No.	Layer	Remarks	Soil and Rock Description	Estimated Hydraulic Conductivity
1		TS	Occasional cobbles/boulders observed throughout; Max. size = 28".	(0 - 4"): TOPSOIL (4 - 60"): SILTY SAND WITH GRAVEL (SM); Brown, dry, ~55% fine to medium sand, ~25% fine to coarse gravel, ~20% nonplastic fines. (Gravelly Loamy Sand).	N/A
2					
3					
4					
5					
6				Bottom of test hole at 60"; refusal on ledge. Open excavation backfilled with previously excavated material upon completion.	
7					
8					
9					
10					
11					
12					

**Notes:**

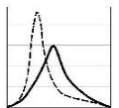
SHWT: Not Encountered

Impervious/Limiting Layer Depth: 60-inches

Project Name: SK Schools - Curtis Corner Middle School

Project Number: 14-30ak

**JOE CASALI ENGINEERING, INC.**



Test Pit Location: See Plan

Date Start / Finish: March 6, 2020

Ground Surface El. / Datum: TBD

Conditions: Clear, 40 deg. F

Excavator Type: JD 410L Backhoe

Excavator Reach: Approx. 10-feet

Operator: South Kingstown - Department of Public Works

JCE Rep.: Daniel R. DeCesaris (RI P.E. No. 10162)

# TH-8

Page 1 of 1

Depth (ft)	Sample Type/No.	Layer	Remarks	Soil and Rock Description	Estimated Hydraulic Conductivity
1		TS	Occasional cobbles/boulders observed throughout; Max. size = 2.4"	(0 - 4"): TOPSOIL (4 - 30"): SILTY SAND WITH GRAVEL (SM); Brown, dry, ~50% fine to medium sand, ~30% nonplastic fines, ~20% fine to coarse gravel. <i>(Gravelly Sandy Loam).</i>	N/A
2					HSG B (1.02 in/hr)
3				(30 - 70"): SILTY SAND WITH GRAVEL (SM); Brown/gray, dry, ~45% fine to coarse sand, ~30% fine to coarse gravel, ~25% nonplastic fines. <i>(Gravelly Loamy Sand).</i>	HSG B (2.41 in/hr)
4					
5					
6					
7				Bottom of test hole at 70"; refusal on ledge. Open excavation backfilled with previously excavated material upon completion.	
8					
9					
10					
11					
12					

**Notes:**

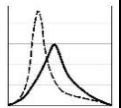
SHWT: Not Encountered

Impervious/Limiting Layer Depth: 70-inches

Project Name: SK Schools - Curtis Corner Middle School

Project Number: 14-30ak

**JOE CASALI ENGINEERING, INC.**





Test Pit Location: See Plan

Date Start / Finish: March 6, 2020

Ground Surface El. / Datum: TBD

Conditions: Clear, 40 deg. F

Excavator Type: JD 410L Backhoe

Excavator Reach: Approx. 10-feet

Operator: South Kingstown - Department of Public Works

JCE Rep.: Daniel R. DeCesaris (RI P.E. No. 10162)

# TH-9

Depth (ft)	Sample Type/No.	Layer	Remarks	Soil and Rock Description	Estimated Hydraulic Conductivity
1				Ledge at ground surface.	
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

**Notes:**

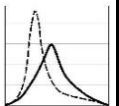
SHWT: Not Encountered

Impervious/Limiting Layer Depth: 0-inches

Project Name: SK Schools - Curtis Corner Middle School

Project Number: 14-30ak

**JOE CASALI ENGINEERING, INC.**



Test Pit Location: See Plan

Date Start / Finish: March 6, 2020

Ground Surface El. / Datum: TBD

Conditions: Clear, 40 deg. F

Excavator Type: JD 410L Backhoe

Excavator Reach: Approx. 10-feet

Operator: South Kingstown - Department of Public Works

JCE Rep.: Daniel R. DeCesaris (RI P.E. No. 10162)

TH-10

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Depth (ft)	Sample Type/No.	Layer	Remarks	Soil and Rock Description	Estimated Hydraulic Conductivity
1 2 3 4 5 6 7 8 9 10 11 12				Ledge at ground surface.	

Notes:

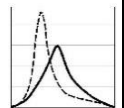
SHWT: Not Encountered

Impervious/Limiting Layer Depth: 0-inches

Project Name: SK Schools - Curtis Corner Middle School

Project Number: 14-30ak

JOE CASALI ENGINEERING, INC.



Test Pit Location: See Plan

Date Start / Finish: March 6, 2020

Ground Surface El. / Datum TBD

Conditions: Clear, 40 deg. F

Excavator Type: JD 410L Backhoe

Excavator Reach: Approx. 10-feet

Operator: South Kingstown - Department of Public Works

JCE Rep.: Daniel R. DeCesaris (RI P.E. No. 10162)

**TH-11**

Page 1 of 1

Depth (ft)	Sample Type/No.	Layer	Remarks	Soil and Rock Description	Estimated Hydraulic Conductivity
1		TS		(0 - 3"): TOP SOIL (3 - 15"): SILTY SAND (SM); Brown, dry, ~70% fine to medium sand, ~20% nonplastic fines, ~10% fine to coarse gravel. ( <i>Loamy Sand</i> ).	N/A  HSG B (2.41 in/hr)
2				Bottom of test hole at 15"; refusal on ledge. Open excavation backfilled with previously excavated material upon completion.	
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

Notes:

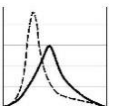
SHWT: Not Encountered

Impervious/Limiting Layer Depth: 15-inches

Project Name: SK Schools - Curtis Corner Middle School

Project Number: 14-30ak

JOE CASALI ENGINEERING, INC.



Test Pit Location: See Plan

Date Start / Finish: March 6, 2020

Ground Surface El. / Datum: TBD

Conditions: Clear, 40 deg. F

Excavator Type: JD 410L Backhoe

Excavator Reach: Approx. 10-feet

Operator: South Kingstown - Department of Public Works

JCE Rep.: Daniel R. DeCesaris (RI P.E. No. 10162)

TH-12

Page 1 of 1

Depth (ft)	Sample Type/No.	Layer	Remarks	Soil and Rock Description	Estimated Hydraulic Conductivity
1		TS		(0 - 3"): TOP SOIL (3 - 26"): SILTY SAND WITH GRAVEL (SM); Brown, dry, ~70% fine to medium sand, ~15% fine to coarse gravel, ~15% nonplastic fines. (Fill.)	N/A
2			Occasional cobbles/boulders observed below approx. 24"; Max. size = 28".	(26 - 53"): SILTY SAND WITH GRAVEL (SM); Brown, dry, ~55% fine sand, ~30% nonplastic fines, ~15% fine to coarse gravel. (Sandy Loam)	HSG B (1.02 in/hr)
3				(53 - 96"): SILTY SAND WITH GRAVEL (SM); Gray, wet, ~65% fine - medium sand, ~20% fine to coarse gravel, ~15% nonplastic fines. (Gravelly Loamy Sand).	HSG B (2.41 in/hr)
4					
5					
6					
7					
8					
9				Bottom of test hole at 96"; water filled hole from waterline. Open excavation backfilled with previously excavated material upon completion.	
10					
11					
12					

Notes: Abandoned waterline encountered west edge of excavation, 72" B.G.S.; backfilled at completion of excavation.

SHWT: 53"

Impervious/Limiting Layer Depth: Not Encountered

Project Name: SK Schools - Curtis Corner Middle School

Project Number: 14-30ak

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