

ARTIFICIAL ISLAND ID#296

PISTON CORE #1

NOTE: MEASUREMENTS GIVEN IN FEET

DATE = 12/15/09

PENETRATING DEPTH = 10.5ft
CORE (RECOVERY) = Bulldozer = 2.6ft Piston = 7.9ft

STRATIGRAPHY NOTES:

OVERALL RESULTS: PERCENT SILT/CLAY = 1.8%
PERCENT >0.625mm = 98.2%
Tan Sand Avg.(VISUAL) = 1.50phi
Tan Sand Avg.(CALCULATED) = 1.45phi

NOTE: NOT TO SCALE

Bulldozer

T

1.6ft Medium Sand (Brown)	1.0ft Coarse Sand (Dark grey/Brown)
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B

Piston

T

4.3ft Coarse Sand w/Pebbles (Dark Grey/Brown)	0.9ft Medium Sand (Tan)	2.7ft Medium Sand (Grey)
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B

ARTIFICIAL ISLAND ID#296

PISTON CORE #2

NOTE: MEASUREMENTS GIVEN IN FEET

DATE = 12/15/09

PENETRATING DEPTH = 12.5ft
CORE (RECOVERY) = Bulldozer = 2.4ft Piston = 10.1ft

STRATIGRAPHY NOTES: Salt Marsh Contact @ 11.4 ft
OVERALL RESULTS: PERCENT SILT/CLAY = 17.7%
PERCENT >0.625mm = 82.3%
Tan Sand Avg.(VISUAL) = 1.50phi
Tan Sand Avg.(CALCULATED) = 1.81phi

NOTE: NOT TO SCALE

Bulldozer

T

0.5ft Coarse Sand (Tan/Orange)	0.5ft Coarse Sand (Brown)	1.4ft Medium Sand (Brown)
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B

Piston

T

1.3ft Medium Sand (Brown)	0.4ft Medium Sand (Grey)	0.8ft Medium Sand (Black)	4.7ft Fine Muddy Sand (Grey)	1.8ft Medium Sand (Grey)	1.1ft Salt Marsh
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B

ARTIFICIAL ISLAND ID#296

PISTON CORE #3

NOTE: MEASUREMENTS GIVEN IN FEET

DATE = 12/15/09

PENETRATING DEPTH = 6.7ft
CORE (RECOVERY) = Bulldozer = 3.6ft Piston = 3.1ft

STRATIGRAPHY NOTES: Pebbles Present
OVERALL RESULTS: PERCENT SILT/CLAY = 0.5%
PERCENT >0.625mm = 99.5%
Tan Sand Avg.(VISUAL) = 1.50phi
Tan Sand Avg.(CALCULATED) = -0.31phi

NOTE: NOT TO SCALE

Bulldozer

T

1.3ft Medium Sand (Orange)	1.5ft Medium Sand (Brown)	0.5ft Medium Sand w/Pebbles (Dark Brown)	0.3ft Very Coarse Sand (Dark Brown)
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B

Piston

T

2.7ft Medium Sand (Brown)	0.4ft Coarse Sand (Grey)
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B

ARTIFICIAL ISLAND ID#296

PISTON CORE #4

NOTE: MEASUREMENTS GIVEN IN FEET

DATE = 12/15/09

PENETRATING DEPTH = 8.7ft
CORE (RECOVERY) = Bulldozer = 1.6ft Piston = 7.1ft

STRATIGRAPHY NOTES: Pebbles Present
OVERALL RESULTS: PERCENT SILT/CLAY = 7.3%
PERCENT >0.625mm = 92.7%
Tan/Grey Sand Avg.(VISUAL) = 1.50phi
Tan/Grey Sand Avg.(CALCULATED) = 1.36phi

NOTE: NOT TO SCALE

Bulldozer

T

1.6ft Very Coarse Sand w/Pebbles (Tan)				
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B

Piston

T

0.8ft Very Coarse Sand w/Pebbles (Tan/Orange)	1.2ft Medium Sand w/Pebbles (Grey)	3.8ft Medium Sand (Black/Grey)	0.6ft Coarse Sand (Grey)	0.7ft Very Fine Muddy Sand (Grey)
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B

ARTIFICIAL ISLAND ID#296

PISTON CORE #5

NOTE: MEASUREMENTS GIVEN IN FEET

DATE = 12/16/09

PENETRATING DEPTH = 9.4ft

CORE (RECOVERY) = Bulldozer = 5.4ft Piston = 4.0ft

STRATIGRAPHY NOTES: Pebbles Present

OVERALL RESULTS: PERCENT SILT/CLAY = **0.2%**

PERCENT >0.625mm = **99.8%**

Tan Sand Avg.(VISUAL) = **1.50phi**

Tan Sand Avg.(CALCULATED) = **0.25phi**

NOTE: NOT TO SCALE

Bulldozer

T

5.4ft

Medium Sand
w/Pebbles
(Tan/Brown)

B

Piston

T

4.0ft

Medium to Coarse
Sand w/Pebbles
(Tan/Brown)

B

ARTIFICIAL ISLAND ID#296

PISTON CORE #6

NOTE: MEASUREMENTS GIVEN IN FEET

DATE = 12/16/09

PENETRATING DEPTH = 6.1ft

CORE (RECOVERY) = Bulldozer = 4.1ft Piston = 2.0ft

STRATIGRAPHY NOTES: Pebbles Present

OVERALL RESULTS: PERCENT SILT/CLAY = 0.5%

PERCENT >0.625mm = 99.5%

Tan Sand Avg.(VISUAL) = 0.75phi

Tan Sand Avg.(CALCULATED) = -0.45phi

NOTE: NOT TO SCALE

Bulldozer

T

2.7ft Medium Sand w/Pebbles (Tan)	1.4ft Coarse to Very Coarse (Tan)
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B

Piston

T

2.0ft Very Coarse Sand w/Pebbles (Tan)

B

ARTIFICIAL ISLAND ID#296

PISTON CORE #7

NOTE: MEASUREMENTS GIVEN IN FEET

DATE = 12/16/09

PENETRATING DEPTH = 8.7ft
CORE (RECOVERY) = Bulldozer = 4.8ft Piston = 3.9ft

STRATIGRAPHY NOTES: Pebbles Present & Wooden Pieces

OVERALL RESULTS: PERCENT SILT/CLAY = 6.9%
PERCENT >0.625mm = 93.1%
Tan Sand Avg.(VISUAL) = 0.75phi
Tan Sand Avg.(CALCULATED) = 0.00phi

NOTE: NOT TO SCALE

Bulldozer

T

0.7ft Coarse Sand w/Pebbles (Brown)	0.5ft Coarse Sand w/Pebbles (Tan)	3.6ft Coarse Sand w/Pebbles (Brown)
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B

Piston

T

2.2ft Coarse Sand w/Pebbles (Tan)	0.2ft Wood	0.5ft Medium Sand (Grey)	1.0ft Fine Sandy Mud (Black)
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B

ARTIFICIAL ISLAND ID#296

AUGER #8

NOTE: MEASUREMENTS GIVEN IN FEET

DATE = 12/15/09

PENETRATING DEPTH = 6.0ft
CORE (RECOVERY) = Auger = 6.0ft
3 samples taken with auger

STRATIGRAPHY NOTES: Phragmites present @ surface
OVERALL RESULTS: PERCENT SILT/CLAY = 95.9%
PERCENT SAND = 4.1%
Gray Sand Avg. = 3.75phi



ARTIFICIAL ISLAND ID#296

AUGER #9

NOTE: MEASUREMENTS GIVEN IN FEET

DATE = 12/15/09

PENETRATING DEPTH = 6.0ft

CORE (RECOVERY) = Auger = 6.0ft

4 samples taken with auger

STRATIGRAPHY NOTES: Phragmites present @ surface

OVERALL RESULTS: PERCENT SILT/CLAY = 79.2%

PERCENT SAND = 20.8%

Brown Sand Avg. = 3.50phi

NOTE: NOT TO SCALE

Auger

T

5.5ft Very Fine Sandy Mud/Clay		0.5ft Mud
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B

ARTIFICIAL ISLAND ID#296

AUGER #10 WEIR

NOTE: MEASUREMENTS GIVEN IN FEET

DATE = 12/15/09

PENETRATING DEPTH = Surface

CORE (RECOVERY) = Surface

1 sample taken by hand

STRATIGRAPHY NOTES: Grab sample possibly berm material

OVERALL RESULTS: PERCENT SILT/CLAY = 28.5%

PERCENT SAND = 71.5%

Brown Sand Avg. = 2.75phi

NOTE: NOT TO SCALE

T

**Surface
Fine to Medium Sand
w/Clay**

B

ARTIFICIAL ISLAND ID#296

AUGER #11

NOTE: MEASUREMENTS GIVEN IN FEET

DATE = 12/15/09

PENETRATING DEPTH = 6.0ft

CORE (RECOVERY) = Auger = 6.0ft

1 sample taken with auger

STRATIGRAPHY NOTES:

OVERALL RESULTS: PERCENT SILT/CLAY = **75.3%**

PERCENT SAND = **24.7%**

Gray Sand Avg. = **2.75phi**

NOTE: NOT TO SCALE

Auger

T

6.0ft
Very Fine
Sandy Mud
w/Roots

B

ARTIFICIAL ISLAND ID#296

AUGER #12

NOTE: MEASUREMENTS GIVEN IN FEET

DATE = 12/15/09

PENETRATING DEPTH = 6.0ft

CORE (RECOVERY) = Auger = 6.0ft

4 samples taken with auger

STRATIGRAPHY NOTES:

OVERALL RESULTS: PERCENT SILT/CLAY = 5.6%

PERCENT SAND = 94.4%

Brown Sand Avg. = 1.50phi

NOTE: NOT TO SCALE

Auger

T

**3.5ft
Medium Sand**

**2.5ft
Medium to Coarse
Sand**

B

ARTIFICIAL ISLAND ID#296

AUGER #13

NOTE: MEASUREMENTS GIVEN IN FEET

DATE = 12/15/09

PENETRATING DEPTH = 6.0ft

CORE (RECOVERY) = Auger = 6.0ft

2 samples taken with auger

STRATIGRAPHY NOTES:

OVERALL RESULTS: PERCENT SILT/CLAY = 74.1%

PERCENT SAND = 25.9%

Brown Sand Avg. = 3.75phi

NOTE: NOT TO SCALE

Auger

T

**6.0ft
Very Fine
Sandy Mud**

B

ARTIFICIAL ISLAND ID#296

AUGER #14

NOTE: MEASUREMENTS GIVEN IN FEET

DATE = 12/16/09

PENETRATING DEPTH = 6.0ft

CORE (RECOVERY) = Auger = 6.0ft

1 sample taken with auger

STRATIGRAPHY NOTES:

OVERALL RESULTS: PERCENT SILT/CLAY = 47.9%

PERCENT SAND = 52.1%

Brown Sand Avg. = 3.75phi

NOTE: NOT TO SCALE

Auger

T

**6.0ft
Very Fine Sandy
Mud/Clay**

B

ARTIFICIAL ISLAND ID#296

AUGER #15 WEIR

NOTE: MEASUREMENTS GIVEN IN FEET

DATE = 12/15/09

PENETRATING DEPTH = 6.0ft

CORE (RECOVERY) = Auger = 6.0ft

3 samples taken with auger

STRATIGRAPHY NOTES: Thin layer sand @ surface (0.5ft)

OVERALL RESULTS: PERCENT SILT/CLAY = 6.1%

PERCENT SAND = 93.9%

Brown Sand Avg. = 1.75phi

NOTE: NOT TO SCALE

Auger

T

0.5ft Coarse Sand	0.5ft Mud	1.0ft Muddy Fine Sand	4.0ft Muddy Coarse Sand
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B

ARTIFICIAL ISLAND ID#296

AUGER #16

NOTE: MEASUREMENTS GIVEN IN FEET

DATE = 12/15/09

PENETRATING DEPTH = 6.0ft

CORE (RECOVERY) = Auger = 6.0ft

2 samples taken with auger

STRATIGRAPHY NOTES:

OVERALL RESULTS: PERCENT SILT/CLAY = 1.3%

PERCENT SAND = 98.7%

Brown Sand Avg. = 1.50phi

NOTE: NOT TO SCALE

Auger

T

**2.0ft
Coarse Sand/
Gravel**

**4.0ft
Coarse Sand**

B

ARTIFICIAL ISLAND ID#296

AUGER #17

NOTE: MEASUREMENTS GIVEN IN FEET

DATE = 12/15/09

PENETRATING DEPTH = 6.0ft

CORE (RECOVERY) = Auger = 6.0ft

2 samples taken with auger

STRATIGRAPHY NOTES:

OVERALL RESULTS: PERCENT SILT/CLAY = 7.6%

PERCENT SAND = 92.4%

Brown Sand Avg. = 2.00phi

NOTE: NOT TO SCALE

Auger

T

2.8ft
Medium Sand

3.2ft
Medium Muddy
Sand

B

ARTIFICIAL ISLAND ID#296

AUGER #18 WEIR

NOTE: MEASUREMENTS GIVEN IN FEET

DATE = 12/16/09

PENETRATING DEPTH = 6.0ft

CORE (RECOVERY) = Auger = 6.0ft

1 sample taken with auger

STRATIGRAPHY NOTES:

OVERALL RESULTS: PERCENT SILT/CLAY = **55.6%**

PERCENT SAND = **44.4%**

Brown Sand Avg. = **1.25phi**

NOTE: NOT TO SCALE

Auger

T

6.0ft
Very Fine Sandy
Mud/Clay

B

ARTIFICIAL ISLAND ID#296

AUGER #19

NOTE: MEASUREMENTS GIVEN IN FEET

DATE = 12/15/09

PENETRATING DEPTH = 6.0ft

CORE (RECOVERY) = Auger = 6.0ft

1 sample taken with auger

STRATIGRAPHY NOTES:

OVERALL RESULTS: PERCENT SILT/CLAY = 44.3%

PERCENT SAND = 55.7%

Brown Sand Avg. = 3.50phi

NOTE: NOT TO SCALE

Auger

T

**6.0ft
Fine Sandy
Mud**

B

ARTIFICIAL ISLAND ID#296

AUGER #20

NOTE: MEASUREMENTS GIVEN IN FEET

DATE = 12/15/09

PENETRATING DEPTH = 6.0ft

CORE (RECOVERY) = Auger = 6.0ft

1 sample taken with auger

STRATIGRAPHY NOTES: Phragmites layer @ surface

OVERALL RESULTS: PERCENT SILT/CLAY = 86.7%

PERCENT SAND = 13.3%

Brown Sand Avg. = 3.50phi

NOTE: NOT TO SCALE

Auger

T

1.0ft Very Fine Sandy Mud	5.0ft Mud (Organics)
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B

ARTIFICIAL ISLAND ID#296

AUGER #21

NOTE: MEASUREMENTS GIVEN IN FEET

DATE = 12/16/09

PENETRATING DEPTH = 6.0ft

CORE (RECOVERY) = Auger = 6.0ft

2 samples taken with auger

STRATIGRAPHY NOTES:

OVERALL RESULTS: PERCENT SILT/CLAY = 51.0%

PERCENT SAND = 49.0%

Brown Sand Avg. = 2.75phi

NOTE: NOT TO SCALE

Auger

T

**6.0ft
Very Fine
Sandy Mud**

B