

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-01		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED 3 UNDISTURBED (UD) 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED 04-08-15 COMPLETED 04-08-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -54.6 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 96 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-54.6	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, few medium-grained sand-sized shell, trace silt, weak reaction with HCl, 2.5Y 8/1 white (SP)						
			At El. -58.0 Ft., mostly fine-grained sand-sized quartz, 2.5Y 6/1 gray		1				
			At El. -59.2 Ft., little sand to gravel-sized shell		2				
-59.9	5.3		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, little sand to gravel-sized shell, few silt, weak reaction with HCl, 10Y 5/1 greenish gray (SP-SM)						
			At El. -60.6 Ft., trace shell		3				
-62.9	8.3		SAND, silty, mostly fine-grained sand-sized quartz, some silt, little sand to gravel-sized shell, weak reaction with HCl, 10Y 4/1 dark greenish gray (SM)						
-64.9	10.3		From El. -64.7 to -64.9 Ft., very silty sand seam						
			SAND, poorly-graded, mostly fine-grained sand-sized quartz, trace silt, no reaction with HCl, interbedded silt seams, 2.5Y 6/2 light brownish gray (SP)						
-67.3	12.7		SILT, inorganic-H, some fine-grained sand-sized quartz, no reaction with HCl, N 5/ gray (MH)						
-69.1	14.5		SAND, poorly-graded, mostly fine-grained						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																					
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																					
LOCATION COORDINATES X = 600,629 Y = 2,062,772			ELEVATION TOP OF BORING -54.6 Ft.																								
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																		
-71.6	17.0		sand-sized quartz, trace silt, no reaction with HCl, interbedded silt seams, 2.5Y 6/2 light brownish gray (SP) At El. -70.5 Ft., some fine-grained sand-sized shell, little silt, strong reaction with HCl																								
-72.9	18.3		At El. -70.6 Ft., mostly fine to medium-grained sand-sized quartz SAND, poorly-graded with silt, mostly fine to medium-grained sand-sized quartz, few silt, trace shell, weak reaction with HCl, 10Y 5/1 greenish gray (SP-SM)																								
-73.7	19.1		SILT, inorganic-H, some fine-grained sand-sized quartz, no reaction with HCl, N 5/ gray (MH)																								
-74.6	20.0						-74.6																				
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.0/2.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>4.0/4.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>6.0/6.3</td> <td>SP-SM*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.3	SP*	2	4.0/4.3	SP*	3	6.0/6.3	SP-SM*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell				Abbreviations:		
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Boring Designation VB-SJN15-02

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility			<b>9. SIZE AND TYPE OF BIT</b> See Remarks	
<b>2. BORING DESIGNATION</b> VB-SJN15-02		<b>LOCATION COORDINATES</b> X = 601,642 Y = 2,062,879		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>CONTRACTOR FILE NO.</b> 6738-15-5453		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
<b>4. NAME OF DRILLER</b>			<b>12. TOTAL SAMPLES</b>	<b>DISTURBED</b> 4
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			<b>13. TOTAL NUMBER CORE BOXES</b>	<b>UNDISTURBED (UD)</b> 0
<b>6. THICKNESS OF OVERBURDEN</b>		N/A		<b>14. ELEVATION GROUND WATER</b>
<b>7. DEPTH DRILLED INTO ROCK</b>		N/A		<b>15. DATE BORING</b>
<b>8. TOTAL DEPTH OF BORING</b>		20.0 Ft.		<b>STARTED</b> 04-08-15
			<b>16. ELEVATION TOP OF BORING</b>	<b>COMPLETED</b> 04-08-15
			<b>17. TOTAL RECOVERY FOR BORING</b>	91 %
			<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-51.7	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, few fine-grained sand-sized shell, trace silt, weak reaction with HCl, 2.5Y 6/1 gray (SP)						
			At El. -54.7 Ft., mostly fine to medium-grained sand-sized quartz, trace shell		1				
			At El. -56.7 Ft., mostly fine-grained sand-sized quartz, 2.5Y 5/1 gray		2				
					3				
-58.7	7.0		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, few silt, weak reaction with HCl, 2.5Y 5/1 gray (SP-SM)						
			At El. -59.0 Ft., 10Y 5/1 greenish gray		4				
			From El. -59.9 to -60.5 Ft., sandy shelly clay seam						
-60.5	8.8		CLAY, lean, little medium-grained sand-sized limestone, little fine-grained sand-sized quartz, few fine-grained sand-sized shell, weak reaction with HCl, 5G 4/1 dark greenish gray (CL)						
-63.0	11.3		SAND, clayey, mostly fine-grained sand-sized quartz, little clay, little fine-grained sand-sized shell, weak reaction with HCl, 10Y 7/1 light greenish gray (SC)						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																										
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																										
LOCATION COORDINATES X = 601,642 Y = 2,062,879			ELEVATION TOP OF BORING -51.7 Ft.																													
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																							
-69.8	18.1																															
-71.7	20.0						-71.7																									
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1.0/1.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>3.0/3.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>5.0/5.3</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>7.0/7.3</td> <td>SP-SM*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> <tr> <td>4</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	1.0/1.3	SP*	2	3.0/3.3	SP*	3	5.0/5.3	SP*	4	7.0/7.3	SP-SM*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell				Abbreviations:		
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-03		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 3 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 03-31-15 COMPLETED: 03-31-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -53.0 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 100 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-53.0	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little fine to medium-grained sand-sized shell, trace silt, weak reaction with HCl, 2.5Y 6/1 gray (SP) At El. -54.4 Ft., mostly fine-grained sand-sized quartz, 2.5Y 5/1 gray						
-56.6	3.6		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few silt, few fine-grained sand-sized shell, weak reaction with HCl, 2.5Y 5/1 gray (SP-SM) At El. -59.0 Ft., trace shell		1				
-62.0	9.0		SAND, poorly-graded with clay, mostly fine-grained sand-sized quartz, few clay, trace shell, strong reaction with HCl, 10Y 7/1 light greenish gray (SP-SC) From El. -60.3 Ft., little sand to gravel-sized shell From El. -60.9 to -61.1 Ft., shelly very clayey sand seam From El. -61.1 to -61.7 Ft., strong reaction with HCl, very clayey sand seam with dissolutioned limestone From El. -61.7 to -61.9 Ft., clayey sand seam From El. -61.9 to -62.0 Ft., slightly shelly clayey sand seam		2				
					3				

<b>DRILLING LOG (Cont. Sheet)</b>			<b>INSTALLATION</b> Jacksonville District				SHEET 2 OF 2 SHEETS																				
			<b>PROJECT</b> St. Johns County Feasibility			<b>COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		<b>HORIZONTAL</b> NAD83	<b>VERTICAL</b> NAVD88																		
<b>LOCATION COORDINATES</b> X = 599,600 Y = 2,062,664			<b>ELEVATION TOP OF BORING</b> -53.0 Ft.																								
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																		
-73.0	20.0	[Hatched Pattern]					-73.0																				
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">SAMPLE ID</th> <th style="text-align: left;">SAMPLE DEPTH</th> <th style="text-align: left;">LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.0/2.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>4.0/4.3</td> <td>SP-SM*</td> </tr> <tr> <td>3</td> <td>6.0/6.3</td> <td>SP-SM*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table style="width: 100%;"> <tbody> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.3	SP*	2	4.0/4.3	SP-SM*	3	6.0/6.3	SP-SM*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell				Abbreviations:		
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<b>1. PROJECT</b> St. Johns County Feasibility			<b>9. SIZE AND TYPE OF BIT</b> See Remarks	
<b>2. BORING DESIGNATION</b> VB-SJN15-04		<b>LOCATION COORDINATES</b> X = 598,478 Y = 2,063,569		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>CONTRACTOR FILE NO.</b> 6738-15-5453		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
<b>4. NAME OF DRILLER</b>			<b>12. TOTAL SAMPLES</b>	<b>DISTURBED</b> 3
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			<b>13. TOTAL NUMBER CORE BOXES</b>	<b>UNDISTURBED (UD)</b> 0
<b>6. THICKNESS OF OVERBURDEN</b>		N/A		<b>14. ELEVATION GROUND WATER</b>
<b>7. DEPTH DRILLED INTO ROCK</b>		N/A		<b>15. DATE BORING</b>
<b>8. TOTAL DEPTH OF BORING</b>		20.0 Ft.		<b>STARTED</b> 03-31-15
			<b>16. ELEVATION TOP OF BORING</b>	<b>COMPLETED</b> 03-31-15
			<b>17. TOTAL RECOVERY FOR BORING</b>	94 %
			<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-52.8	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, few fine-grained sand-sized shell, trace silt, weak reaction with HCl, 2.5Y 7/1 light gray (SP) At El. -53.8 Ft., few fine to medium-grained sand-sized shell		1		-54.3		
-55.9	3.1		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few fine-grained sand-sized shell, few silt, weak reaction with HCl, 2.5Y 6/1 gray (SP-SM)		2		-56.3		
-57.2	4.4		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, few fine-grained sand-sized shell, trace silt, weak reaction with HCl, 10Y 5/1 greenish gray (SP) At El. -57.8 Ft., some sand to gravel-sized shell		3		-57.8		
-59.9	7.1		At El. -59.1 Ft., little sand to gravel-sized shell, N 5/ gray						
-62.8	10.0		SILT, inorganic-H, little fine-grained sand-sized quartz, little sand to gravel-sized shell, weak reaction with HCl, N 5/ gray (MH) At El. -60.5 Ft., trace shell, no reaction with HCl						
-67.8	15.0		CLAY, lean, some fine-grained sand-sized quartz, trace shell, no reaction with HCl, 10Y 4/1 dark greenish gray (CL)						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																					
PROJECT			COORDINATE SYSTEM/DATUM		HORIZONTAL	VERTICAL																					
St. Johns County Feasibility			State Plane, FLE (U.S. Ft.)		NAD83	NAVD88																					
LOCATION COORDINATES			ELEVATION TOP OF BORING																								
X = 598,478 Y = 2,063,569			-52.8 Ft.																								
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																		
-72.8	20.0		SAND, clayey, mostly fine-grained sand-sized quartz, little clay, trace shell, strong reaction with HCl, 2.5Y 7/2 light gray (SC)  At El. -71.6 Ft.																								
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1.5/1.8</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>3.5/3.8</td> <td>SP-SM*</td> </tr> <tr> <td>3</td> <td>5.0/5.3</td> <td>SP*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	1.5/1.8	SP*	2	3.5/3.8	SP-SM*	3	5.0/5.3	SP*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell				Abbreviations:		
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<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-05		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 2 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 03-31-15 COMPLETED: 03-31-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -53.0 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 97 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-53.0	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, few fine to medium-grained sand-sized shell, trace silt, strong reaction with HCl, 2.5Y 6/1 gray (SP) At El. -54.5 Ft., mostly fine-grained sand-sized quartz, 2.5Y 5/1 gray						
					1		-54.0		
					2		-55.5		
-56.4	3.4		From El. -56.2 to -56.4 Ft., shelly sand seam SAND, poorly-graded with clay, mostly fine-grained sand-sized quartz, little fine to medium-grained sand-sized shell, few clay, strong reaction with HCl, 5GY 4/1 dark greenish gray (SP-SC) At El. -57.3 Ft., some fine-grained sand-sized quartz, some sand to gravel-sized shell, N 5/ gray						
-58.0	5.0		SAND, clayey, mostly fine-grained sand-sized quartz, some sand to gravel-sized shell, some clay, strong reaction with HCl, 5GY 4/1 dark greenish gray (SC) CLAY, fat, little fine-grained sand-sized quartz, few fine gravel-sized shell, weak reaction with HCl, 5G 4/1 dark greenish gray (CH) At El. -60.5 Ft., some sand to gravel-sized shell, few fine-grained sand-sized quartz						
-59.0	6.0		From El. -61.4 to -61.8 Ft., slightly shelly clay seam CLAY, lean, few fine-grained sand-sized quartz, trace shell, weak reaction with HCl, 5G 4/2 grayish green (CL) At El. -63.9 Ft., little fine to medium-grained sand-sized shell, 10GY 6/1 greenish gray						
-61.8	8.8		SAND, clayey, mostly fine-grained sand-sized quartz, little clay, trace shell, strong reaction with HCl, 10Y 6/1 greenish gray (SC) From El. -65.5 to -65.6 Ft., clay seam						
-65.1	12.1								

<b>DRILLING LOG (Cont. Sheet)</b>			<b>INSTALLATION</b> Jacksonville District				<b>SHEET 2</b> <b>OF 2 SHEETS</b>											
			<b>PROJECT</b> St. Johns County Feasibility			<b>COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		<b>HORIZONTAL</b> NAD83	<b>VERTICAL</b> NAVD88									
<b>LOCATION COORDINATES</b> X = 598,582 Y = 2,062,532			<b>ELEVATION TOP OF BORING</b> -53.0 Ft.															
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE									
-72.4	19.4	[Hatched Pattern]																
-73.0	20.0						-73.0											
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">SAMPLE ID</th> <th style="text-align: left;">SAMPLE DEPTH</th> <th style="text-align: left;">LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1.0/1.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>2.5/2.8</td> <td>SP*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <ol style="list-style-type: none"> <li>Percent Visual Shell</li> <li>Percent Visual Shell</li> </ol>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	1.0/1.3	SP*	2	2.5/2.8	SP*				Abbreviations:		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																
1	1.0/1.3	SP*																
2	2.5/2.8	SP*																

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-06		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 2 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 04-11-15 COMPLETED: 04-11-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -55.7 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 100 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-55.7	0.0	[Dotted pattern]	SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, few medium-grained sand-sized shell, trace silt, strong reaction with HCl, 2.5Y 6/2 light brownish gray (SP)						
			From El. -57.5 to -57.8 Ft., intermittent silt seams		1		-57.7		
			At El. -57.9 Ft., little fine to medium-grained sand-sized shell						
			At El. -59.4 Ft., little sand to gravel-sized shell, 2.5Y 5/1 gray				-60.2		
			At El. -62.4 Ft., little fine to coarse-grained sand-sized shell		2				
-63.2	7.5	[Vertical lines pattern]	SILT, inorganic-H, some fine-grained sand-sized quartz, few fine to medium-grained sand-sized shell, weak reaction with HCl, N 5/ gray (MH)						
			From El. -65.2 to -65.4 Ft., strong reaction with HCl, sandy very shelly silt seam						
			At El. -67.6 Ft., little fine-grained sand-sized quartz, trace shell, no reaction with HCl						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS												
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88												
LOCATION COORDINATES X = 599,486 Y = 2,063,652			ELEVATION TOP OF BORING -55.7 Ft.															
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE									
-70.8	15.1		SAND, silty, mostly fine-grained sand-sized quartz, little silt, trace shell, strong reaction with HCl, N 7/ light gray (SM)															
-75.7	20.0						-75.7											
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.0/2.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>4.5/4.8</td> <td>SP*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <ol style="list-style-type: none"> <li>Percent Visual Shell</li> <li>Percent Visual Shell</li> </ol>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.3	SP*	2	4.5/4.8	SP*				Abbreviations:		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																
1	2.0/2.3	SP*																
2	4.5/4.8	SP*																

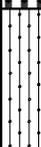
<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-07		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 3 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 04-11-15 COMPLETED: 04-11-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -52.3 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 96 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-52.3	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine to medium-grained sand-sized shell, trace silt, weak reaction with HCl, 2.5Y 6/2 light brownish gray (SP)						
			At El. -54.3 Ft., trace shell		1		-54.3		
			At El. -54.8 Ft., little fine to medium-grained sand-sized shell						
			At El. -56.3 Ft., mostly fine to medium-grained sand-sized quartz, few medium-grained sand-sized shell		2		-56.3		
			At El. -56.9 Ft., 10Y 5/1 greenish gray						
			At El. -57.8 Ft., mostly fine-grained sand-sized quartz, few fine-grained sand-sized shell		3		-57.8		
-60.0	7.7		From El. -59.6 to -60.0 Ft., very shelly sand seam						
			SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few silt, few fine-grained sand-sized shell, weak reaction with HCl, 10Y 5/1 greenish gray (SP-SM)						
-62.6	10.3		At El. -62.0 Ft., little fine to medium-grained sand-sized shell						
			SILT, inorganic-H, little fine-grained sand-sized quartz, few fine to medium-grained sand-sized shell, weak reaction with HCl, N 5/ gray (MH)						
			At El. -64.4 Ft., few fine-grained sand-sized quartz, trace shell, no reaction with HCl						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS															
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88															
LOCATION COORDINATES X = 600,504 Y = 2,063,760			ELEVATION TOP OF BORING -52.3 Ft.																		
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE												
-68.3	16.0		SAND, silty, mostly fine-grained sand-sized quartz, little silt, trace shell, strong reaction with HCl, N 7/ light gray (SM)																		
-71.5	19.2																				
-72.3	20.0						-72.3														
			NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.0/2.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>4.0/4.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>5.5/5.8</td> <td>SP*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.3	SP*	2	4.0/4.3	SP*	3	5.5/5.8	SP*				Abbreviations:		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																			
1	2.0/2.3	SP*																			
2	4.0/4.3	SP*																			
3	5.5/5.8	SP*																			

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-08		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 1 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 04-10-15 COMPLETED: 04-10-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -55.1 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 98 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-55.1	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, trace silt, weak reaction with HCl, 2.5Y 5/1 gray (SP)		1		-56.1		
-57.3	2.2		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, little fine to medium-grained sand-sized shell, few silt, weak reaction with HCl, 2.5Y 7/1 light gray (SP-SM)						
-60.4	5.3		From El. -60.1 to -60.4 Ft., shelly silty sand seam SAND, silty, mostly fine-grained sand-sized quartz, some silt, few fine-grained sand-sized shell, weak reaction with HCl, 10Y 5/1 greenish gray (SM)						
			At El. -63.6 Ft., little sand to gravel-sized shell At El. -64.6 Ft., little fine to medium-grained sand-sized shell From El. -66.1 to -67.4 Ft., intermittent seams of slightly sandy silt						
-67.4	12.3		SAND, poorly-graded with silt, mostly fine to medium-grained sand-sized quartz, few silt, trace shell, weak reaction with HCl, 10Y 5/1 greenish gray (SP-SM)						
-69.3	14.2		SILT, inorganic-H, some fine to medium-grained sand-sized quartz, trace						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS									
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88									
LOCATION COORDINATES X = 601,528 Y = 2,063,898			ELEVATION TOP OF BORING -55.1 Ft.												
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE						
-72.7	17.6		shell, weak reaction with HCl, N 5/ gray (MH) At El. -71.0 Ft., 3" silty sand seam At El. -71.2 Ft., little fine to medium-grained sand-sized quartz, few medium-grained sand-sized shell												
-74.6	19.5		SAND, silty, mostly fine-grained sand-sized quartz, little silt, trace shell, strong reaction with HCl, N 7/ light gray (SM)												
-75.1	20.0						-75.1								
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1.0/1.3</td> <td>SP*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing                             <ol style="list-style-type: none"> <li>Percent Visual Shell</li> </ol> </li> </ol>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	1.0/1.3	SP*				Abbreviations:		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION													
1	1.0/1.3	SP*													

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-09		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 6 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 04-10-15 COMPLETED: 04-10-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -50.3 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 92 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-50.3	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, trace silt, weak reaction with HCl, 2.5Y 6/2 light brownish gray (SP)						
			At El. -53.3 Ft., little fine to medium-grained sand-sized shell		1		-52.3		
			At El. -54.2 Ft., few medium-grained sand-sized shell, 2.5Y 6/1 gray		2		-54.3		
			At El. -55.3 Ft., mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell		3		-55.3		5
			At El. -56.3 Ft., little sand to gravel-sized shell, 2.5Y 7/1 light gray		4		-56.3		
			At El. -57.8 Ft., mostly fine-grained sand-sized quartz, few fine-grained sand-sized shell		5		-57.8		
-59.1	8.8		At El. -58.3 Ft., 2.5Y 5/1 gray At El. -58.8 Ft., few medium-grained sand-sized shell		6		-58.8		
			SAND, silty, mostly fine-grained sand-sized quartz, little silt, few fine-grained sand-sized shell, weak reaction with HCl, 10Y 5/1 greenish gray (SM)						10
-61.1	10.8								
-61.8	11.5		SAND, poorly-graded with silt, mostly fine to medium-grained sand-sized quartz, little fine to medium-grained sand-sized shell, few silt, weak reaction with HCl, 2.5Y 6/2 light brownish gray (SP-SM) SAND, silty, mostly fine-grained sand-sized quartz, little silt, few fine-grained sand-sized shell, weak reaction with HCl, 10Y 5/1 greenish gray (SM)						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																								
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																								
LOCATION COORDINATES X = 601,418 Y = 2,064,910			ELEVATION TOP OF BORING -50.3 Ft.																											
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																					
-66.5	16.2		SAND, poorly-graded with silt, mostly fine to medium-grained sand-sized quartz, little fine to medium-grained sand-sized shell, few silt, weak reaction with HCl, 2.5Y 6/2 light brownish gray (SP-SM)																											
-68.6	18.3																													
-70.3	20.0																													
			NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr><td>1</td><td>2.0/2.3</td><td>SP*</td></tr> <tr><td>2</td><td>4.0/4.3</td><td>SP*</td></tr> <tr><td>3</td><td>5.0/5.3</td><td>SP*</td></tr> <tr><td>4</td><td>6.0/6.3</td><td>SP*</td></tr> <tr><td>5</td><td>7.5/7.8</td><td>SP*</td></tr> <tr><td>6</td><td>8.5/8.8</td><td>SP*</td></tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Visual Shell 5 Percent Visual Shell 6 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.3	SP*	2	4.0/4.3	SP*	3	5.0/5.3	SP*	4	6.0/6.3	SP*	5	7.5/7.8	SP*	6	8.5/8.8	SP*				Abbreviations:		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																												
1	2.0/2.3	SP*																												
2	4.0/4.3	SP*																												
3	5.0/5.3	SP*																												
4	6.0/6.3	SP*																												
5	7.5/7.8	SP*																												
6	8.5/8.8	SP*																												

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-10		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 3 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 04-11-15 COMPLETED: 04-11-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -53.6 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 98 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-53.6	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell, trace silt, strong reaction with HCl, 2.5Y 7/1 light gray (SP)						
			At El. -55.5 Ft., little fine to medium-grained sand-sized shell, weak reaction with HCl, 2.5Y 6/2 light brownish gray		1			-54.6	
			At El. -56.6 Ft., mostly fine-grained sand-sized quartz, little medium-grained sand-sized shell		2			-56.6	
			At El. -57.6 Ft., few fine-grained sand-sized shell		3			-57.6	
			From El. -59.3 to -59.4 Ft., shell seam						
			From El. -60.5 to -60.7 Ft., shell seam						
			At El. -60.7 Ft., few fine to medium-grained sand-sized shell, 10Y 5/1 greenish gray						
-62.5	8.9		SILT, inorganic-H, some fine-grained sand-sized quartz, few fine to medium-grained sand-sized shell, weak reaction with HCl, N 5/ gray (MH)						
			At El. -64.9 Ft., little fine to medium-grained sand-sized shell						
-66.3	12.7		SAND, silty, mostly fine to medium-grained sand-sized quartz, some silt, little fine-grained sand-sized shell, weak reaction with HCl, 10Y 5/1 greenish gray (SM)						
			From El. -67.4 to -67.7 Ft., very shelly very silty sand seam From El. -67.7 to -69.0 Ft., intermittent						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS															
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88															
LOCATION COORDINATES X = 600,400 Y = 2,064,778			ELEVATION TOP OF BORING -53.6 Ft.																		
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE												
-69.0	15.4		seams of shelly very sandy silt seam																		
			SAND, poorly-graded with silt, mostly fine to medium-grained sand-sized quartz, some fine to medium-grained sand-sized shell, few silt, strong reaction with HCl, 2.5Y 5/2 grayish brown (SP-SM)																		
-73.1	19.5		At El. -72.9 Ft., little fine-grained sand-sized quartz, 2" silty sand seam, 10Y 5/1 greenish gray																		
-73.6	20.0						-73.6														
			NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1.0/1.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>3.0/3.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>4.0/4.3</td> <td>SP*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	1.0/1.3	SP*	2	3.0/3.3	SP*	3	4.0/4.3	SP*				Abbreviations:		
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1	1.0/1.3	SP*																			
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3	4.0/4.3	SP*																			

Boring Designation VB-SJN15-11

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-11		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 7 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 04-11-15 COMPLETED: 04-11-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -44.0 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 96 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-44.0	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, few medium-grained sand-sized shell, trace silt, weak reaction with HCl, 2.5Y 7/1 light gray (SP)						
					1		-46.0		
			At El. -48.0 Ft., little medium-grained sand-sized shell		2		-48.0		
			At El. -49.3 Ft., 2.5Y 6/2 light brownish gray		3		-50.0		
					4		-52.0		
			At El. -52.0 Ft., few medium-grained sand-sized shell		5		-54.0		
					6		-56.0		
			From El. -57.1 to -57.7 Ft., strong reaction with HCl, intermittent shell seams		7		-58.0		
			At El. -57.7 Ft., mostly fine-grained sand-sized quartz, weak reaction with HCl, 2.5Y 5/1 gray						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																																											
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																											
LOCATION COORDINATES X = 599,366 Y = 2,064,750			ELEVATION TOP OF BORING -44.0 Ft.																																														
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																																								
-63.1	19.1		At El. -60.3 Ft., 10Y 5/1 greenish gray																																														
-64.0	20.0		At El. -62.5 Ft., little medium to coarse-grained sand-sized shell																																														
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr><td>1</td><td>2.0/2.3</td><td>SP*</td></tr> <tr><td>2</td><td>4.0/4.3</td><td>SP*</td></tr> <tr><td>3</td><td>6.0/6.3</td><td>SP*</td></tr> <tr><td>4</td><td>8.0/8.3</td><td>SP*</td></tr> <tr><td>5</td><td>10.0/10.3</td><td>SP*</td></tr> <tr><td>6</td><td>12.0/12.3</td><td>SP*</td></tr> <tr><td>7</td><td>14.0/14.3</td><td>SP*</td></tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr><td>1</td><td>Percent Carbonate</td></tr> <tr><td>1</td><td>Percent Visual Shell</td></tr> <tr><td>2</td><td>Percent Visual Shell</td></tr> <tr><td>3</td><td>Percent Visual Shell</td></tr> <tr><td>4</td><td>Percent Visual Shell</td></tr> <tr><td>5</td><td>Percent Visual Shell</td></tr> <tr><td>6</td><td>Percent Visual Shell</td></tr> <tr><td>7</td><td>Percent Visual Shell</td></tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.3	SP*	2	4.0/4.3	SP*	3	6.0/6.3	SP*	4	8.0/8.3	SP*	5	10.0/10.3	SP*	6	12.0/12.3	SP*	7	14.0/14.3	SP*	1	Percent Carbonate	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Visual Shell	6	Percent Visual Shell	7	Percent Visual Shell				Abbreviations:		
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-12		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> 5		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED 04-10-15 COMPLETED 04-10-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -49.8 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 100 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-49.8	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, trace silt, strong reaction with HCl, 2.5Y 7/2 light gray (SP)						
			At El. -51.9 Ft., little fine to medium-grained sand-sized shell		1		-51.8		
			At El. -53.7 Ft., mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell		2		-53.8		
			At El. -54.5 Ft., weak reaction with HCl, 2.5Y 6/2 light brownish gray		3		-54.8		
			At El. -56.8 Ft., mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell		4		-56.8		
			At El. -58.2 Ft., little fine to medium-grained sand-sized shell, 2.5Y 5/1 gray				-58.8		
			At El. -58.8 Ft., few medium-grained sand-sized shell		5				
			From El. -61.2 to -61.6 Ft., silt seam						
			From El. -62.3 to -62.6 Ft., shell seam						
			At El. -62.6 Ft., few sand to gravel-sized shell, 10Y 5/1 greenish gray						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																															
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																															
LOCATION COORDINATES X = 601,320 Y = 2,065,929			ELEVATION TOP OF BORING -49.8 Ft.																																		
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE																												
-65.4	15.6	.....	SILT, inorganic-H, little fine-grained sand-sized quartz, trace shell, no reaction with HCl, N 5/ gray (MH)																																		
-69.8	20.0						-69.8																														
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.0/2.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>4.0/4.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>5.0/5.3</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>7.0/7.3</td> <td>SP*</td> </tr> <tr> <td>5</td> <td>9.0/9.3</td> <td>SP*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> <tr> <td>4</td> <td>Percent Visual Shell</td> </tr> <tr> <td>5</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.3	SP*	2	4.0/4.3	SP*	3	5.0/5.3	SP*	4	7.0/7.3	SP*	5	9.0/9.3	SP*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Visual Shell				Abbreviations:		
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Boring Designation VB-SJN15-13

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility			<b>9. SIZE AND TYPE OF BIT</b> See Remarks	
<b>2. BORING DESIGNATION</b> VB-SJN15-13		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		<b>HORIZONTAL</b> NAD83
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b>		<input type="checkbox"/> <b>AUTO HAMMER</b> <input type="checkbox"/> <b>MANUAL HAMMER</b>
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b>		<b>DISTURBED</b> 6
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> <b>VERTICAL</b> <input type="checkbox"/> <b>INCLINED</b>		<b>13. TOTAL NUMBER CORE BOXES</b>		<b>UNDISTURBED (UD)</b> 0
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b>		<b>STARTED</b> 04-11-15
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b>		<b>COMPLETED</b> 04-11-15
		<b>17. TOTAL RECOVERY FOR BORING</b>		91 %
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-43.9	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, few medium-grained sand-sized shell, trace silt, weak reaction with HCl, 2.5Y 7/1 light gray (SP)						
					1		-45.9		
					2		-47.9		
			At El. -48.4 Ft., mostly fine-grained sand-sized quartz, little fine to medium-grained sand-sized shell, 2.5Y 6/2 light brownish gray						
			At El. -49.9 Ft., few medium-grained sand-sized shell		3		-49.9		
					4		-51.9		
			At El. -51.9 Ft., mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell, 2.5Y 6/2 light brownish gray						
			At El. -52.9 Ft., few medium-grained sand-sized shell, 2.5Y 6/1 gray		5		-52.9		
			From El. -53.9 to -54.2 Ft., silt seam						
					6		-53.9		
-55.5	11.6		At El. -54.7 Ft., little fine to medium-grained sand-sized shell, 2.5Y 7/1 light gray						
			SAND, silty, mostly fine-grained sand-sized quartz, little silt, few fine to medium-grained sand-sized shell, weak reaction with HCl, 10Y 5/1 greenish gray (SM)						
			From El. -58.0 to -58.5 Ft., silty very shelly sand seam						
			From El. -58.5 to -58.9 Ft., strong reaction						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																																			
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																			
LOCATION COORDINATES X = 600,302 Y = 2,065,785			ELEVATION TOP OF BORING -43.9 Ft.																																						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																																
-61.6	17.7		with HCl, silty sandy shell seam																																						
-62.1	18.2		SAND, silty, mostly sand to gravel-sized shell, some fine-grained sand-sized quartz, 2.5Y 7/2 light gray (SM)																																						
-63.9	20.0						-63.9																																		
NOTES:			Abbreviations:																																						
<p>1. USACE Jacksonville is the custodian for these original files.</p> <p>2. Soils are field visually classified in accordance with the Unified Soils Classification System.</p> <p>3. Laboratory Testing Results</p> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr><td>1</td><td>2.0/2.3</td><td>SP*</td></tr> <tr><td>2</td><td>4.0/4.3</td><td>SP*</td></tr> <tr><td>3</td><td>6.0/6.3</td><td>SP*</td></tr> <tr><td>4</td><td>8.0/8.3</td><td>SP*</td></tr> <tr><td>5</td><td>9.0/9.3</td><td>SP*</td></tr> <tr><td>6</td><td>10.0/10.3</td><td>MH*</td></tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <p>4. Additional Laboratory Testing</p> <table border="1"> <tbody> <tr><td>1</td><td>Percent Visual Shell</td></tr> <tr><td>2</td><td>Percent Visual Shell</td></tr> <tr><td>3</td><td>Percent Visual Shell</td></tr> <tr><td>4</td><td>Percent Visual Shell</td></tr> <tr><td>5</td><td>Percent Visual Shell</td></tr> <tr><td>6</td><td>Percent Visual Shell</td></tr> </tbody> </table>			SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.3	SP*	2	4.0/4.3	SP*	3	6.0/6.3	SP*	4	8.0/8.3	SP*	5	9.0/9.3	SP*	6	10.0/10.3	MH*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Visual Shell	6	Percent Visual Shell						
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility			<b>9. SIZE AND TYPE OF BIT</b> See Remarks	
<b>2. BORING DESIGNATION</b> VB-SJN15-14		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		<b>HORIZONTAL</b> NAD83
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b>		<input type="checkbox"/> <b>AUTO HAMMER</b> <input type="checkbox"/> <b>MANUAL HAMMER</b>
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b>		<b>DISTURBED</b> 6
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> <b>VERTICAL</b> <input type="checkbox"/> <b>INCLINED</b>		<b>13. TOTAL NUMBER CORE BOXES</b>		<b>UNDISTURBED (UD)</b> 0
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b>		<b>STARTED</b> 04-11-15
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b>		<b>COMPLETED</b> 04-11-15
		<b>17. TOTAL RECOVERY FOR BORING</b>		98 %
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-45.1	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, some fine to medium-grained sand-sized shell, trace silt, strong reaction with HCl, 2.5Y 7/1 light gray (SP) At El. -46.3 Ft., little fine to medium-grained sand-sized shell						
			At El. -47.6 Ft., few medium-grained sand-sized shell		1		-47.6		
			At El. -49.4 Ft., some fine to medium-grained sand-sized shell						
			At El. -50.1 Ft., little medium-grained sand-sized shell		2		-50.1		
			At El. -52.6 Ft., few medium-grained sand-sized shell		3		-52.6		
					4		-55.1		
					5		-57.1		
			At El. -57.8 Ft., mostly fine-grained sand-sized quartz, few silt, weak reaction with HCl, 2.5Y 5/1 gray		6		-58.1		
-58.6	13.5		SAND, silty, mostly fine-grained sand-sized quartz, little fine to medium-grained sand-sized shell, little silt, weak reaction with HCl, 10Y 5/1 greenish gray (SM)						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																																					
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																					
LOCATION COORDINATES X = 599,289 Y = 2,065,677			ELEVATION TOP OF BORING -45.1 Ft.																																								
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																																		
-62.3	17.2		At El. -61.1 Ft., some sand to gravel-sized shell, strong reaction with HCl																																								
			From El. -61.9 to -62.3 Ft., very shelly very silty sand seam																																								
-64.7	19.6		SILT, inorganic-H, some fine-grained sand-sized quartz, few fine to medium-grained sand-sized shell, weak reaction with HCl, N 4/ dark gray (MH)																																								
-65.1	20.0						-65.1																																				
NOTES:			Abbreviations:																																								
<p>1. USACE Jacksonville is the custodian for these original files.</p> <p>2. Soils are field visually classified in accordance with the Unified Soils Classification System.</p> <p>3. Laboratory Testing Results</p> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr><td>1</td><td>2.5/2.8</td><td>SP*</td></tr> <tr><td>2</td><td>5.0/5.3</td><td>SP*</td></tr> <tr><td>3</td><td>7.5/7.8</td><td>SP*</td></tr> <tr><td>4</td><td>10.0/10.3</td><td>SP*</td></tr> <tr><td>5</td><td>12.0/12.3</td><td>SP*</td></tr> <tr><td>6</td><td>13.0/13.3</td><td>SP*</td></tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <p>4. Additional Laboratory Testing</p> <table border="1"> <tbody> <tr><td>1</td><td>Percent Visual Shell</td></tr> <tr><td>2</td><td>Percent Carbonate</td></tr> <tr><td>2</td><td>Percent Visual Shell</td></tr> <tr><td>3</td><td>Percent Visual Shell</td></tr> <tr><td>4</td><td>Percent Visual Shell</td></tr> <tr><td>5</td><td>Percent Visual Shell</td></tr> <tr><td>6</td><td>Percent Visual Shell</td></tr> </tbody> </table>			SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.5/2.8	SP*	2	5.0/5.3	SP*	3	7.5/7.8	SP*	4	10.0/10.3	SP*	5	12.0/12.3	SP*	6	13.0/13.3	SP*	1	Percent Visual Shell	2	Percent Carbonate	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Visual Shell	6	Percent Visual Shell						
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6	Percent Visual Shell																																										

Boring Designation VB-SJN15-15

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-15		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED 5 UNDISTURBED (UD) 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED 04-11-15 COMPLETED 04-11-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -49.9 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 100 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-49.9	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little fine to medium-grained sand-sized shell, trace silt, weak reaction with HCl, 2.5Y 7/1 light gray (SP) At El. -50.9 Ft., few medium-grained sand-sized shell At El. -51.4 Ft., little fine to medium-grained sand-sized shell, strong reaction with HCl At El. -52.6 Ft., mostly fine-grained sand-sized quartz, few fine-grained sand-sized shell, weak reaction with HCl		1				
			At El. -54.4 Ft., few medium-grained sand-sized shell At El. -54.9 Ft., mostly fine to medium-grained sand-sized quartz, little fine to medium-grained sand-sized shell, strong reaction with HCl At El. -55.6 Ft., mostly fine-grained sand-sized quartz, weak reaction with HCl At El. -56.4 Ft., few medium-grained sand-sized shell		2				
					3				
					4				
-57.7	7.8		SAND, poorly-graded with silt, mostly fine to medium-grained sand-sized quartz, few medium-grained sand-sized shell, few silt, weak reaction with HCl, 2.5Y 5/1 gray (SP-SM) At El. -59.7 Ft., little fine to medium-grained sand-sized shell, 10Y 5/1 greenish gray		5				
-60.2	10.3		SILT, inorganic-H, some fine-grained sand-sized quartz, few medium-grained sand-sized shell, weak reaction with HCl, N 4/ dark gray (MH) At El. -62.0 Ft., trace shell, no reaction with HCl						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																														
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																														
LOCATION COORDINATES X = 598,233 Y = 2,065,473			ELEVATION TOP OF BORING -49.9 Ft.																																	
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																											
-67.6	17.7																																			
-69.9	20.0		SAND, silty, some fine-grained sand-sized quartz, some silt, little fine-grained sand-sized shell, weak reaction with HCl, 10Y 5/1 greenish gray (SM)				-69.9																													
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1.0/1.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>3.0/3.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>4.5/4.8</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>6.5/6.8</td> <td>SP*</td> </tr> <tr> <td>5</td> <td>8.0/8.3</td> <td>SP-SM*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> <tr> <td>4</td> <td>Percent Visual Shell</td> </tr> <tr> <td>5</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	1.0/1.3	SP*	2	3.0/3.3	SP*	3	4.5/4.8	SP*	4	6.5/6.8	SP*	5	8.0/8.3	SP-SM*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Visual Shell			Abbreviations:		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																																		
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5	Percent Visual Shell																																			



DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																						
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																						
LOCATION COORDINATES X = 601,216 Y = 2,066,929			ELEVATION TOP OF BORING -46.1 Ft.																									
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																			
-61.8	15.7		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few silt, trace shell, weak reaction with HCl, 10Y 5/1 greenish gray (SP-SM)  At El. -63.9 Ft., little sand to gravel-sized shell		6		-62.1																					
-66.1	20.0							-66.1																				
NOTES:			Abbreviations:																									
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SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																										
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5	14.0/14.3	SP*																										
6	16.0/16.3	SP-SM*																										
*Lab visual classification based on gradation curve																												
4. Additional Laboratory Testing																												
1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Carbonate 3 Percent Visual Shell 4 Percent Visual Shell 5 Percent Visual Shell 6 Percent Visual Shell																												

Boring Designation VB-SJN15-17

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-17		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 6 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 04-10-15 COMPLETED: 04-10-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -42.8 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 100 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-42.8	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell, strong reaction with HCl, 2.5Y 7/1 light gray (SP)						
					1		-45.8		
					2		-48.8		
-49.5	6.7		At El. -48.8 Ft., trace silt						
			SAND, poorly-graded, mostly fine to medium-grained sand-sized shell, some fine to medium-grained sand-sized quartz, 2.5Y 6/1 gray (SP)						
-50.5	7.7		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell, 2.5Y 7/2 light gray (SP)		3		-51.8		
			At El. -53.4 Ft., 2.5Y 6/1 gray						
			At El. -53.8 Ft., few medium-grained sand-sized shell		4		-53.8		
			At El. -55.8 Ft., mostly fine-grained sand-sized quartz		5		-55.8		
			At El. -56.2 Ft., weak reaction with HCl, 2.5Y 5/1 gray		6		-56.8		

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																																				
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																				
LOCATION COORDINATES X = 600,198 Y = 2,066,797			ELEVATION TOP OF BORING -42.8 Ft.																																							
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																																	
-62.8	20.0	•••••	From El. -60.5 to -60.8 Ft., shell seam At El. -60.8 Ft., few fine-grained sand-sized shell, 10Y 5/1 greenish gray																																							
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr><td>1</td><td>3.0/3.3</td><td>SP*</td></tr> <tr><td>2</td><td>6.0/6.3</td><td>SP*</td></tr> <tr><td>3</td><td>9.0/9.3</td><td>SP*</td></tr> <tr><td>4</td><td>11.0/11.3</td><td>SP*</td></tr> <tr><td>5</td><td>13.0/13.3</td><td>SP*</td></tr> <tr><td>6</td><td>14.0/14.3</td><td>SP*</td></tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr><td>1</td><td>Percent Visual Shell</td></tr> <tr><td>2</td><td>Percent Visual Shell</td></tr> <tr><td>3</td><td>Percent Visual Shell</td></tr> <tr><td>4</td><td>Percent Visual Shell</td></tr> <tr><td>5</td><td>Percent Visual Shell</td></tr> <tr><td>6</td><td>Percent Visual Shell</td></tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.3	SP*	2	6.0/6.3	SP*	3	9.0/9.3	SP*	4	11.0/11.3	SP*	5	13.0/13.3	SP*	6	14.0/14.3	SP*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Visual Shell	6	Percent Visual Shell				Abbreviations:		
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4	Percent Visual Shell																																									
5	Percent Visual Shell																																									
6	Percent Visual Shell																																									

Boring Designation VB-SJN15-18

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-18		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 5 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 04-10-15 COMPLETED: 04-10-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -43.8 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 100 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-43.8	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell, weak reaction with HCl, 2.5Y 7/1 light gray (SP)						
			From El. -46.3 to -46.7 Ft., 1/4" diameter vertical sandy silt seam		1		-46.3		
			At El. -48.7 Ft., 2.5Y 6/2 light brownish gray		2		-49.8		
			At El. -51.8 Ft., few medium-grained sand-sized shell, trace silt		3		-51.8		
			At El. -53.8 Ft., mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell		4		-53.8		
-56.1	12.3		At El. -55.8 Ft., mostly fine to medium-grained sand-sized quartz, little medium to coarse-grained sand-sized shell, trace limestone		5		-55.8		
-57.8	14.0		SAND, silty, mostly fine-grained sand-sized quartz, little fine to medium-grained sand-sized shell, little silt, weak reaction with HCl, 10Y 5/1 greenish gray (SM)						
			SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, little fine to						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																					
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																					
LOCATION COORDINATES X = 599,190 Y = 2,066,696			ELEVATION TOP OF BORING -43.8 Ft.																								
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																		
-59.7	15.9		medium-grained sand-sized shell, few silt, weak reaction with HCl, 2.5Y 6/2 light brownish gray (SP-SM)																								
-63.8	20.0		SAND, silty, mostly fine-grained sand-sized quartz, little sand to gravel-sized shell, little silt, weak reaction with HCl, 10Y 5/1 greenish gray (SM)  At El. -62.6 Ft., little medium to coarse-grained sand-sized shell				-63.8																				
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.5/2.8</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>6.0/6.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>8.0/8.3</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>10.0/10.3</td> <td>SP*</td> </tr> <tr> <td>5</td> <td>12.0/12.3</td> <td>SP*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <ol style="list-style-type: none"> <li>Percent Visual Shell</li> </ol>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.5/2.8	SP*	2	6.0/6.3	SP*	3	8.0/8.3	SP*	4	10.0/10.3	SP*	5	12.0/12.3	SP*				Abbreviations:		
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4	10.0/10.3	SP*																									
5	12.0/12.3	SP*																									

Boring Designation VB-SJN15-19

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility			<b>9. SIZE AND TYPE OF BIT</b> See Remarks	
<b>2. BORING DESIGNATION</b> VB-SJN15-19		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		<b>HORIZONTAL</b> NAD83
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>CONTRACTOR FILE NO.</b> 6738-15-5453		<b>VERTICAL</b> NAVD88
<b>4. NAME OF DRILLER</b>			<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER	
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			<b>12. TOTAL SAMPLES</b> 6	
<b>6. THICKNESS OF OVERBURDEN</b> N/A			<b>DISTURBED</b> 0	
<b>7. DEPTH DRILLED INTO ROCK</b> N/A			<b>UNDISTURBED (UD)</b> 0	
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.			<b>13. TOTAL NUMBER CORE BOXES</b> 0	
			<b>14. ELEVATION GROUND WATER</b>	
			<b>15. DATE BORING</b> 04-10-15	
			<b>STARTED</b> 04-10-15	
			<b>COMPLETED</b> 04-10-15	
			<b>16. ELEVATION TOP OF BORING</b> -45.5 Ft.	
			<b>17. TOTAL RECOVERY FOR BORING</b> 100 %	
			<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-45.5	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine to medium-grained sand-sized shell, weak reaction with HCl, 2.5Y 7/1 light gray (SP)						
			At El. -46.8 Ft., some fine to medium-grained sand-sized shell, strong reaction with HCl						
			At El. -47.6 Ft., little fine to medium-grained sand-sized shell						
			At El. -48.5 Ft., mostly fine to medium-grained sand-sized quartz, few medium-grained sand-sized shell, few medium-grained sand-sized limestone, weak reaction with HCl		1				
			At El. -50.8 Ft., little fine to medium-grained sand-sized shell						
			At El. -51.5 Ft., few medium-grained sand-sized shell, trace silt		2				
			At El. -52.5 Ft., little fine to medium-grained sand-sized shell						
			At El. -54.5 Ft., few medium-grained sand-sized shell, discontinue silt		3				
			At El. -55.8 Ft., 2.5Y 7/2 light gray						
			At El. -56.5 Ft., trace silt		4				
			At El. -57.3 Ft., 2.5Y 7/1 light gray						
			At El. -58.5 Ft., mostly fine-grained sand-sized quartz, trace shell, trace silt		5				
			At El. -60.0 Ft., few medium-grained		6				

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																								
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																								
LOCATION COORDINATES X = 598,188 Y = 2,066,636			ELEVATION TOP OF BORING -45.5 Ft.																											
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																					
-60.6	15.1		sand-sized shell SAND, silty, mostly fine-grained sand-sized quartz, little silt, few fine to medium-grained sand-sized shell, weak reaction with HCl, 10Y 5/1 greenish gray (SM) At El. -61.6 Ft., little sand to gravel-sized shell																											
-62.3	16.8		SILT, inorganic-H, little fine-grained sand-sized quartz, few medium-grained sand-sized shell, weak reaction with HCl, N 5/ gray (MH) At El. -63.3 Ft., few fine-grained sand-sized quartz, trace shell																											
-65.5	20.0						-65.5																							
			NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr><td>1</td><td>3.0/3.3</td><td>SP*</td></tr> <tr><td>2</td><td>6.0/6.3</td><td>SP*</td></tr> <tr><td>3</td><td>9.0/9.3</td><td>SP*</td></tr> <tr><td>4</td><td>11.0/11.3</td><td>SP*</td></tr> <tr><td>5</td><td>13.0/13.3</td><td>SP*</td></tr> <tr><td>6</td><td>14.5/14.8</td><td>SP*</td></tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Visual Shell 5 Percent Visual Shell 6 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.3	SP*	2	6.0/6.3	SP*	3	9.0/9.3	SP*	4	11.0/11.3	SP*	5	13.0/13.3	SP*	6	14.5/14.8	SP*				Abbreviations:		
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5	13.0/13.3	SP*																												
6	14.5/14.8	SP*																												

Boring Designation VB-SJN15-20

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-20		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> 5		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> 04-09-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -40.7 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 81 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-40.7	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little fine to medium-grained sand-sized shell, strong reaction with HCl, 2.5Y 7/1 light gray (SP)						
			At El. -43.7 Ft., few medium-grained sand-sized shell		1		-43.7		
			At El. -46.7 Ft., little medium-grained sand-sized shell, trace silt		2		-46.7		
			At El. -48.1 Ft., 2.5Y 7/2 light gray						
			At El. -49.2 Ft., few medium-grained sand-sized shell		3		-49.2		
-50.0	9.3		SAND, poorly-graded, mostly fine to medium-grained sand-sized shell, some fine to medium-grained sand-sized quartz, trace silt, 2.5Y 6/2 light brownish gray (SP)						
-50.9	10.2		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, some fine to medium-grained sand-sized shell, few silt, strong reaction with HCl, 2.5Y 7/2 light gray (SP)		4		-51.7		
			At El. -51.7 Ft., few medium-grained sand-sized shell, weak reaction with HCl						
			At El. -52.6 Ft., 2.5Y 5/1 gray		5		-53.2		
			At El. -53.2 Ft., mostly fine-grained sand-sized quartz						
-54.5	13.8		At El. -53.8 Ft., 2.5Y 6/1 gray						
			SAND, silty, mostly fine-grained sand-sized quartz, little fine to medium-grained sand-sized shell, little silt, weak reaction with HCl, 2.5Y 5/1 gray (SM)						

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																															
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																															
LOCATION COORDINATES X = 601,180 Y = 2,067,947			ELEVATION TOP OF BORING -40.7 Ft.																																		
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE																												
-56.9	16.2																																				
-60.7	20.0						-60.7																														
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3.0/3.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>6.0/6.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>8.5/8.8</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>11.0/11.3</td> <td>SP*</td> </tr> <tr> <td>5</td> <td>12.5/12.8</td> <td>SP*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> <tr> <td>4</td> <td>Percent Visual Shell</td> </tr> <tr> <td>5</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.3	SP*	2	6.0/6.3	SP*	3	8.5/8.8	SP*	4	11.0/11.3	SP*	5	12.5/12.8	SP*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Visual Shell				Abbreviations:		
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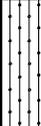
<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-21		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 6 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 04-10-15 COMPLETED: 04-10-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -42.2 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 96 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-42.2	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, some fine to medium-grained sand-sized shell, trace silt, weak reaction with HCl, 2.5Y 5/1 gray (SP)						
			At El. -45.7 Ft., little medium-grained sand-sized shell		1				
			At El. -49.2 Ft., few medium-grained sand-sized shell		2				
			At El. -52.7 Ft., little medium-grained sand-sized shell, discontinue silt		3				
			At El. -56.3 Ft., 2" sandy silt seam		4				

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																								
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																								
LOCATION COORDINATES X = 600,147 Y = 2,067,852			ELEVATION TOP OF BORING -42.2 Ft.																											
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																					
-61.3	19.1		At El. -59.2 Ft., little medium-grained sand-sized shell, strong reaction with HCl		5		-59.2																							
			At El. -60.2 Ft., little medium to coarse-grained sand-sized shell, weak reaction with HCl		6		-60.2																							
-62.2	20.0						-62.2																							
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SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																												
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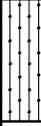
<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-22		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 7 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 04-10-15 COMPLETED: 04-10-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -43.3 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 100 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-43.3	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, some fine to medium-grained sand-sized shell, trace silt, strong reaction with HCl, 2.5Y 6/1 gray (SP)						
			At El. -46.3 Ft., little medium-grained sand-sized shell		1				
			At El. -49.8 Ft., mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell		2				
			At El. -52.4 Ft., weak reaction with HCl, 2.5Y 5/1 gray At El. -52.8 Ft., little medium-grained sand-sized shell		3				
			At El. -53.8 Ft., strong reaction with HCl, 2.5Y 6/1 gray At El. -54.3 Ft., mostly fine to medium-grained sand-sized quartz, few medium-grained sand-sized shell At El. -54.8 Ft., mostly fine-grained sand-sized quartz, 2.5Y 7/1 light gray		4				
			At El. -57.1 Ft., weak reaction with HCl, 2.5Y 5/2 grayish brown		5				

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																										
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																										
LOCATION COORDINATES X = 599,155 Y = 2,067,738			ELEVATION TOP OF BORING -43.3 Ft.																													
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE																							
-61.6	18.3		At El. -61.3 Ft., few medium-grained sand-sized shell		6																											
-63.3	20.0		SAND, silty, mostly fine-grained sand-sized quartz, little silt, little sand to gravel-sized shell, weak reaction with HCl, 10Y 5/1 greenish gray (SM)		7																											
NOTES:			Abbreviations:																													
1. USACE Jacksonville is the custodian for these original files.																																
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SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																														
1	3.0/3.3	SP*																														
2	6.5/6.8	SP*																														
3	9.5/9.8	SP*																														
4	11.0/11.3	SP*																														
5	14.0/14.3	SP*																														
6	16.0/16.3	SP*																														
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-23		<b>10. COORDINATE SYSTEM/DATUM</b> HORIZONTAL VERTICAL State Plane, FLE (U.S. Ft.) NAD83 NAVD88		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED UNDISTURBED (UD) 4 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED COMPLETED 04-10-15 04-10-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -48.4 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 94 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-48.4	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine to medium-grained sand-sized shell, trace silt, strong reaction with HCl, 2.5Y 7/1 light gray (SP)						
			At El. -49.7 Ft., 2.5Y 5/1 gray		1		-49.9		
			At El. -49.9 Ft., mostly fine to medium-grained sand-sized quartz, few medium-grained sand-sized shell						
			At El. -50.3 Ft., little medium-grained sand-sized shell, 2.5Y 7/1 light gray		2		-52.4		
			At El. -54.2 Ft., 2.5Y 6/1 gray						
			At El. -54.9 Ft., few medium-grained sand-sized shell		3		-54.9		
			At El. -55.7 Ft., mostly fine-grained sand-sized quartz, little fine to medium-grained sand-sized shell, 2.5Y 5/1 gray		4		-56.4		
			At El. -56.4 Ft., trace shell, weak reaction with HCl						
			From El. -57.0 to -57.3 Ft., silt seam						
			From El. -57.3 to -57.7 Ft., shell seam						
			At El. -58.2 Ft., few fine-grained sand-sized shell, 2.5Y 6/2 light brownish gray						
			At El. -59.4 Ft., little fine to medium-grained sand-sized shell, 10Y 5/1 greenish gray						
			From El. -60.3 to -61.0 Ft., silt seam						
-61.0	12.6		SILT, inorganic-H, little fine-grained sand-sized quartz, few medium-grained sand-sized shell, weak reaction with HCl, N 4/ dark gray (MH)						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																										
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																										
LOCATION COORDINATES X = 598,152 Y = 2,067,618			ELEVATION TOP OF BORING -48.4 Ft.																													
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																							
-65.6	17.2																															
-67.2	18.8		SAND, silty, mostly fine to medium-grained sand-sized quartz, some silt, few medium-grained sand-sized shell, weak reaction with HCl, 10Y 5/1 greenish gray (SM)																													
-68.4	20.0						-68.4																									
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1.5/1.8</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>4.0/4.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>6.5/6.8</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>8.0/8.3</td> <td>SP*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> <tr> <td>4</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	1.5/1.8	SP*	2	4.0/4.3	SP*	3	6.5/6.8	SP*	4	8.0/8.3	SP*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell				Abbreviations:		
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-24		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> 5		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED 04-09-15 COMPLETED 04-09-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -41.6 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 100 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-41.6	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little fine to medium-grained sand-sized shell, strong reaction with HCl, 2.5Y 7/1 light gray (SP)						
			At El. -44.6 Ft., little medium-grained sand-sized shell		1		-44.6		
			At El. -47.6 Ft., trace silt		2		-47.6		
-49.4	7.8		SAND, poorly-graded, mostly fine to medium-grained sand-sized shell, some fine to medium-grained sand-sized quartz, 2.5Y 6/2 light brownish gray (SP)						
-50.1	8.5		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, some fine to medium-grained sand-sized shell (SP)		3		-51.1		
			At El. -50.9 Ft., mostly fine-grained sand-sized quartz						
			At El. -51.1 Ft., few medium-grained sand-sized shell						
			At El. -51.6 Ft., mostly fine to medium-grained sand-sized quartz, little fine to medium-grained sand-sized shell, 2.5Y 7/1 light gray						
			At El. -53.9 Ft., mostly fine-grained sand-sized quartz, little medium-grained sand-sized shell, weak reaction with HCl, 2.5Y 6/2 light brownish gray		4		-54.1		
			At El. -54.9 Ft., 2.5Y 5/1 gray						
			At El. -55.6 Ft., few medium-grained sand-sized shell		5		-55.6		

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																															
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																															
LOCATION COORDINATES X = 600,992 Y = 2,068,941			ELEVATION TOP OF BORING -41.6 Ft.																																		
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE																												
-56.8	15.2	[Symbol: Dotted pattern]	SAND, poorly-graded with silt, mostly fine to medium-grained sand-sized quartz, some fine to medium-grained sand-sized shell, few silt, strong reaction with HCl, 2.5Y 6/2 light brownish gray (SP-SM)																																		
-58.4	16.8																																				
-61.6	20.0	[Symbol: Vertical lines]	SAND, silty, mostly fine-grained sand-sized quartz, little fine to medium-grained sand-sized shell, little silt, weak reaction with HCl, 10Y 5/1 greenish gray (SM)				-61.6																														
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3.0/3.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>6.0/6.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>9.5/9.8</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>12.5/12.8</td> <td>SP*</td> </tr> <tr> <td>5</td> <td>14.0/14.3</td> <td>SP*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> <tr> <td>4</td> <td>Percent Visual Shell</td> </tr> <tr> <td>5</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.3	SP*	2	6.0/6.3	SP*	3	9.5/9.8	SP*	4	12.5/12.8	SP*	5	14.0/14.3	SP*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Visual Shell				Abbreviations:		
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Boring Designation VB-SJN15-25

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-25		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> 5		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED 04-09-15 COMPLETED 04-09-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -43.0 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 100 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-43.0	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little fine to medium-grained sand-sized shell, trace silt, weak reaction with HCl, 2.5Y 7/1 light gray (SP)						
			At El. -44.6 Ft., little fine to coarse-grained sand-sized shell						
			At El. -46.5 Ft., little medium-grained sand-sized shell		1		-46.5		
			At El. -46.9 Ft., 2.5Y 6/2 light brownish gray						
			At El. -51.7 Ft., few medium-grained sand-sized shell		2		-50.0		
			At El. -55.0 Ft., some fine to coarse-grained sand-sized shell, strong reaction with HCl, 2.5Y 6/1 gray						
			At El. -55.9 Ft., 1" sandy silt seam, 2.5Y 5/1 gray						
			At El. -56.0 Ft., little fine to medium-grained sand-sized shell, few silt, weak reaction with HCl		3		-53.5		
					4		-56.5		
							-58.0		

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																																
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																
LOCATION COORDINATES X = 599,984 Y = 2,068,804			ELEVATION TOP OF BORING -43.0 Ft.																																			
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE																													
-59.7	16.7		At El. -58.0 Ft., few medium-grained sand-sized shell From El. -58.3 to -59.7 Ft., strong reaction with HCl, intermittent shell seams		5																																	
-63.0	20.0		SAND, silty, mostly fine-grained sand-sized quartz, little silt, few fine-grained sand-sized shell, weak reaction with HCl, 2.5Y 5/1 gray (SM)  At El. -62.3 Ft., little sand to gravel-sized shell, strong reaction with HCl				-63.0																															
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3.5/3.8</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>7.0/7.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>10.5/10.8</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>13.5/13.8</td> <td>SP*</td> </tr> <tr> <td>5</td> <td>15.0/15.3</td> <td>SP*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr> <td>1</td> <td>Percent Carbonate</td> </tr> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> <tr> <td>4</td> <td>Percent Visual Shell</td> </tr> <tr> <td>5</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.5/3.8	SP*	2	7.0/7.3	SP*	3	10.5/10.8	SP*	4	13.5/13.8	SP*	5	15.0/15.3	SP*	1	Percent Carbonate	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Visual Shell			Abbreviations:		
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility			<b>9. SIZE AND TYPE OF BIT</b> See Remarks	
<b>2. BORING DESIGNATION</b> VB-SJN15-26		<b>LOCATION COORDINATES</b> X = 598,993 Y = 2,068,690		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>CONTRACTOR FILE NO.</b> 6738-15-5453		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
<b>4. NAME OF DRILLER</b>			<b>12. TOTAL SAMPLES</b> 4	<b>DISTURBED</b> 0
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			<b>13. TOTAL NUMBER CORE BOXES</b> 0	<b>UNDISTURBED (UD)</b> 0
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		<b>15. DATE BORING</b> 04-10-15
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>16. ELEVATION TOP OF BORING</b> -45.9 Ft.		<b>17. TOTAL RECOVERY FOR BORING</b> 73 %
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.			<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-45.9	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell, strong reaction with HCl, 2.5Y 7/2 light gray (SP)						
					1		-48.9		
			At El. -51.9 Ft., trace silt		2		-51.9		
			At El. -54.2 Ft., 2.5Y 6/2 light brownish gray		3		-54.9		
			At El. -54.9 Ft., mostly fine-grained sand-sized quartz, little fine to medium-grained sand-sized shell		4		-56.4		
-56.1	10.2		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, little medium-grained sand-sized shell, few silt, strong reaction with HCl, 10Y 5/1 greenish gray (SP-SM)						
			At El. -57.4 Ft., little fine to medium-grained sand-sized shell						
-60.5	14.6								

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																		
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																		
LOCATION COORDINATES X = 598,993 Y = 2,068,690			ELEVATION TOP OF BORING -45.9 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-65.9	20.0																							
			NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3.0/3.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>6.0/6.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>9.0/9.3</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>10.5/10.8</td> <td>SP-SM*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.3	SP*	2	6.0/6.3	SP*	3	9.0/9.3	SP*	4	10.5/10.8	SP-SM*				Abbreviations:		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																						
1	3.0/3.3	SP*																						
2	6.0/6.3	SP*																						
3	9.0/9.3	SP*																						
4	10.5/10.8	SP-SM*																						

Boring Designation VB-SJN15-27

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-27		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 6 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 04-10-15 COMPLETED: 04-10-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -45.9 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 73 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-45.9	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell, weak reaction with HCl, 2.5Y 6/1 gray (SP)						
					1		-48.4		
					2		-50.9		
			At El. -52.5 Ft., mostly fine gravel-sized quartz, few medium-grained sand-sized shell, trace silt, 2.5Y 5/1 gray		3		-52.9		
			At El. -54.9 Ft., trace shell		4		-54.9		
			At El. -56.9 Ft., few medium-grained sand-sized shell		5		-56.9		
-58.9	13.0				6		-58.9		
-60.0	14.1		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, few silt, weak reaction with HCl, 2.5Y 5/1 gray (SP-SM)						
-60.4	14.5		From El. -59.8 to -60.0 Ft., silty very shelly						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																								
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																								
LOCATION COORDINATES X = 597,954 Y = 2,068,637			ELEVATION TOP OF BORING -45.9 Ft.																											
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																					
-65.9	20.0		sand seam SAND, clayey, mostly fine-grained sand-sized quartz, some clay, little sand to gravel-sized shell, weak reaction with HCl, 5G 4/1 dark greenish gray (SC)																											
			NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr><td>1</td><td>2.5/2.8</td><td>SP*</td></tr> <tr><td>2</td><td>5.0/5.3</td><td>SP*</td></tr> <tr><td>3</td><td>7.0/7.3</td><td>SP*</td></tr> <tr><td>4</td><td>9.0/9.3</td><td>SP*</td></tr> <tr><td>5</td><td>11.0/11.3</td><td>SP*</td></tr> <tr><td>6</td><td>13.0/13.3</td><td>SP-SM*</td></tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Visual Shell 5 Percent Visual Shell 6 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.5/2.8	SP*	2	5.0/5.3	SP*	3	7.0/7.3	SP*	4	9.0/9.3	SP*	5	11.0/11.3	SP*	6	13.0/13.3	SP-SM*				Abbreviations:		
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4	9.0/9.3	SP*																												
5	11.0/11.3	SP*																												
6	13.0/13.3	SP-SM*																												

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-28		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 6 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 04-09-15 COMPLETED: 04-09-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -44.9 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 83 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-44.9	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell, trace silt, strong reaction with HCl, 2.5Y 7/2 light gray (SP)						
					1		-46.9		
			From El. -50.3 to -50.7 Ft., very shelly sand seam		2		-49.9		
			At El. -55.2 Ft., 2.5Y 5/1 gray		3		-52.9		
			At El. -55.9 Ft., mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell		4		-55.9		
			At El. -57.0 Ft., little medium-grained sand-sized shell		5		-57.4		
			From El. -59.0 to -59.2 Ft., shell seam		6		-58.9		

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																																			
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																			
LOCATION COORDINATES X = 599,859 Y = 2,069,792			ELEVATION TOP OF BORING -44.9 Ft.																																						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																																
-61.4	16.5		*At El. -59.8 Ft., few medium-grained sand-sized shell, weak reaction with HCl																																						
-64.9	20.0						-64.9																																		
			<p>NOTES:</p> <p>1. USACE Jacksonville is the custodian for these original files.</p> <p>2. Soils are field visually classified in accordance with the Unified Soils Classification System.</p> <p>3. Laboratory Testing Results</p> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr><td>1</td><td>2.0/2.3</td><td>SP*</td></tr> <tr><td>2</td><td>5.0/5.3</td><td>SP*</td></tr> <tr><td>3</td><td>8.0/8.3</td><td>SP*</td></tr> <tr><td>4</td><td>11.0/11.3</td><td>SP*</td></tr> <tr><td>5</td><td>12.5/12.8</td><td>SP*</td></tr> <tr><td>6</td><td>14.0/14.3</td><td>SP*</td></tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <p>4. Additional Laboratory Testing</p> <table border="1"> <tbody> <tr><td>1</td><td>Percent Visual Shell</td></tr> <tr><td>2</td><td>Percent Visual Shell</td></tr> <tr><td>3</td><td>Percent Visual Shell</td></tr> <tr><td>4</td><td>Percent Visual Shell</td></tr> <tr><td>5</td><td>Percent Visual Shell</td></tr> <tr><td>6</td><td>Percent Visual Shell</td></tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.3	SP*	2	5.0/5.3	SP*	3	8.0/8.3	SP*	4	11.0/11.3	SP*	5	12.5/12.8	SP*	6	14.0/14.3	SP*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Visual Shell	6	Percent Visual Shell				Abbreviations:	
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-29		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 6 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 04-09-15 COMPLETED: 04-09-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -45.9 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 100 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-45.9	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell, trace silt, strong reaction with HCl, 2.5Y 7/2 light gray (SP)						
					1		-48.9		
					2		-51.9		
			From El. -53.1 to -53.3 Ft., very shelly sand seam At El. -53.3 Ft., mostly fine-grained sand-sized quartz, 2.5Y 5/2 grayish brown		3		-53.9		
			From El. -55.4 to -55.7 Ft., very shelly sand seam At El. -55.7 Ft., few medium-grained sand-sized shell, weak reaction with HCl		4		-55.9		
			At El. -57.6 Ft., mostly fine to medium-grained sand-sized quartz, little medium to coarse-grained sand-sized shell, strong reaction with HCl, 2.5Y 7/1 light gray At El. -58.6 Ft., few fine-grained sand-sized shell, 2.5Y 5/1 gray		5		-57.9		
			At El. -59.9 Ft., mostly fine-grained sand-sized quartz		6		-59.9		

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																																					
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																					
LOCATION COORDINATES X = 597,844 Y = 2,069,619			ELEVATION TOP OF BORING -45.9 Ft.																																								
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																																		
-61.7	15.8		From El. -61.2 to -61.7 Ft., shell seam																																								
-64.1	18.2		SILT, inorganic-H, little fine-grained sand-sized quartz, little sand to gravel-sized shell, weak reaction with HCl, N 5/ gray (MH) At El. -62.4 Ft., some fine-grained sand-sized quartz, 10Y 5/1 greenish gray At El. -63.3 Ft., little fine to medium-grained sand-sized shell																																								
-65.1	19.2		SAND, clayey, mostly fine-grained sand-sized quartz, little clay, trace shell, weak reaction with HCl, 5G 4/1 dark greenish gray (SC)																																								
-65.9	20.0		SAND, poorly-graded with clay, mostly fine-grained sand-sized quartz, few clay, weak reaction with HCl, 2.5Y 5/2 grayish brown (SP-SC)				-65.9																																				
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr><td>1</td><td>3.0/3.3</td><td>SP*</td></tr> <tr><td>2</td><td>6.0/6.3</td><td>SP*</td></tr> <tr><td>3</td><td>8.0/8.3</td><td>SP*</td></tr> <tr><td>4</td><td>10.0/10.3</td><td>SP*</td></tr> <tr><td>5</td><td>12.0/12.3</td><td>SP*</td></tr> <tr><td>6</td><td>14.0/14.3</td><td>SP*</td></tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr><td>1</td><td>Percent Visual Shell</td></tr> <tr><td>2</td><td>Percent Carbonate</td></tr> <tr><td>2</td><td>Percent Visual Shell</td></tr> <tr><td>3</td><td>Percent Visual Shell</td></tr> <tr><td>4</td><td>Percent Visual Shell</td></tr> <tr><td>5</td><td>Percent Visual Shell</td></tr> <tr><td>6</td><td>Percent Visual Shell</td></tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.3	SP*	2	6.0/6.3	SP*	3	8.0/8.3	SP*	4	10.0/10.3	SP*	5	12.0/12.3	SP*	6	14.0/14.3	SP*	1	Percent Visual Shell	2	Percent Carbonate	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Visual Shell	6	Percent Visual Shell				Abbreviations:	
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Boring Designation VB-SJN15-30

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-30		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 6 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 04-09-15 COMPLETED: 04-09-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -45.1 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 98 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-45.1	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell, strong reaction with HCl, 2.5Y 7/1 light gray (SP)						
					1		-48.1		
			At El. -51.1 Ft., trace silt		2		-51.1		
			At El. -54.1 Ft., mostly fine-grained sand-sized quartz		3		-54.1		
			At El. -56.1 Ft., 1" shell seam		4		-57.1		
			At El. -57.6 Ft., mostly fine to medium-grained sand-sized quartz At El. -57.9 Ft., 1" shell seam At El. -58.0 Ft., mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, weak reaction with HCl, 2.5Y 6/1 gray		5		-58.6		
-60.1	15.0		At El. -59.0 Ft., 2" shell seam				-60.1		

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																																			
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																			
LOCATION COORDINATES X = 600,774 Y = 2,070,984			ELEVATION TOP OF BORING -45.1 Ft.																																						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																																
-62.1	17.0		At El. -59.2 Ft., 2" shell seam SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, few silt, strong reaction with HCl, 2.5Y 7/1 light gray (SP-SM)		6																																				
-64.6	19.5		SAND, silty, mostly fine-grained sand-sized quartz, little silt, little fine to medium-grained sand-sized shell, weak reaction with HCl, 10Y 5/1 greenish gray (SM) At El. -63.1 Ft., some sand to gravel-sized shell, strong reaction with HCl																																						
-65.1	20.0						-65.1																																		
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr><td>1</td><td>3.0/3.3</td><td>SP*</td></tr> <tr><td>2</td><td>6.0/6.3</td><td>SP*</td></tr> <tr><td>3</td><td>9.0/9.3</td><td>SP*</td></tr> <tr><td>4</td><td>12.0/12.3</td><td>SP*</td></tr> <tr><td>5</td><td>13.5/13.8</td><td>SP*</td></tr> <tr><td>6</td><td>15.0/15.3</td><td>SP-SM*</td></tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr><td>1</td><td>Percent Visual Shell</td></tr> <tr><td>2</td><td>Percent Visual Shell</td></tr> <tr><td>3</td><td>Percent Visual Shell</td></tr> <tr><td>4</td><td>Percent Visual Shell</td></tr> <tr><td>5</td><td>Percent Visual Shell</td></tr> <tr><td>6</td><td>Percent Visual Shell</td></tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.3	SP*	2	6.0/6.3	SP*	3	9.0/9.3	SP*	4	12.0/12.3	SP*	5	13.5/13.8	SP*	6	15.0/15.3	SP-SM*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Visual Shell	6	Percent Visual Shell			Abbreviations:		
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-31		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> 5		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> 04-09-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -44.4 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 98 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-44.4	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell, weak reaction with HCl, 2.5Y 7/1 light gray (SP)						
					1		-47.4		
			At El. -50.4 Ft., little medium to coarse-grained sand-sized shell		2		-50.4		
			At El. -51.8 Ft., 2.5Y 6/1 gray						
			At El. -53.4 Ft., little medium-grained sand-sized shell		3		-53.4		
			From El. -54.0 to -54.3 Ft., sandy silt seam						
					4		-56.4		
			At El. -57.9 Ft., few medium-grained sand-sized shell, 2.5Y 5/1 gray		5		-57.9		
			From El. -58.4 to -58.8 Ft., strong reaction with HCl, very shelly sand seam						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																																
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																
LOCATION COORDINATES X = 598,732 Y = 2,070,721			ELEVATION TOP OF BORING -44.4 Ft.																																			
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																													
-61.4	17.0																																					
-63.9	19.5		SAND, clayey, mostly fine-grained sand-sized quartz, some clay, few coarse-grained sand-sized shell, weak reaction with HCl, N 5/ gray (SC)																																			
-64.4	20.0		At El. -63.5 Ft., occasional cemented fragments																																			
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3.0/3.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>6.0/6.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>9.0/9.3</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>12.0/12.3</td> <td>SP*</td> </tr> <tr> <td>5</td> <td>13.5/13.8</td> <td>SP*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Carbonate</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> <tr> <td>4</td> <td>Percent Visual Shell</td> </tr> <tr> <td>5</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.3	SP*	2	6.0/6.3	SP*	3	9.0/9.3	SP*	4	12.0/12.3	SP*	5	13.5/13.8	SP*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Carbonate	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Visual Shell				Abbreviations:	
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility			<b>9. SIZE AND TYPE OF BIT</b> See Remarks	
<b>2. BORING DESIGNATION</b> VB-SJN15-32			<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)	<b>HORIZONTAL</b> NAD83
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ			<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER	
<b>4. NAME OF DRILLER</b>			<b>12. TOTAL SAMPLES</b>	<b>DISTURBED</b> 6
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			<b>13. TOTAL NUMBER CORE BOXES</b>	<b>UNDISTURBED (UD)</b> 0
<b>6. THICKNESS OF OVERBURDEN</b> N/A			<b>14. ELEVATION GROUND WATER</b>	
<b>7. DEPTH DRILLED INTO ROCK</b> N/A			<b>15. DATE BORING</b>	<b>STARTED</b> 04-09-15
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.			<b>16. ELEVATION TOP OF BORING</b>	<b>COMPLETED</b> 04-09-15
			<b>17. TOTAL RECOVERY FOR BORING</b> 100 %	
			<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-44.1	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell, weak reaction with HCl, 2.5Y 6/2 light brownish gray (SP)						
			At El. -47.1 Ft., mostly fine-grained sand-sized quartz		1				
			At El. -48.0 Ft., little medium-grained sand-sized shell, strong reaction with HCl						
			At El. -50.1 Ft., mostly fine to medium-grained sand-sized quartz		2				
			From El. -52.6 to -52.7 Ft., sandy silt seam						
			At El. -53.1 Ft., mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, trace silt, weak reaction with HCl		3				
			At El. -53.7 Ft., mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell, discontinue silt, 2.5Y 5/1 gray		4				
			At El. -55.2 Ft., trace shell						
-56.1	12.0		SAND, poorly-graded with silt, mostly fine to medium-grained sand-sized quartz, few medium-grained sand-sized shell, few silt, weak reaction with HCl, 2.5Y 5/1 gray (SP-SM)		5				
					6				

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																																				
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																				
LOCATION COORDINATES X = 599,657 Y = 2,071,859			ELEVATION TOP OF BORING -44.1 Ft.																																							
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																																	
-62.1	18.0		At El. -61.6 Ft., some sand to gravel-sized shell																																							
-63.8	19.7		CLAY, lean, little fine-grained sand-sized quartz, trace shell, weak reaction with HCl, 5GY 4/1 dark greenish gray (CL)																																							
-64.1	20.0		SAND, clayey, mostly fine-grained sand-sized quartz, little medium-grained sand-sized shell, little clay, weak reaction with HCl, 2.5Y 5/2 grayish brown (SC)				-64.1																																			
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr><td>1</td><td>3.0/3.3</td><td>SP*</td></tr> <tr><td>2</td><td>6.0/6.3</td><td>SP*</td></tr> <tr><td>3</td><td>9.0/9.3</td><td>SP*</td></tr> <tr><td>4</td><td>10.0/10.3</td><td>SP*</td></tr> <tr><td>5</td><td>12.0/12.3</td><td>SP-SM*</td></tr> <tr><td>6</td><td>14.0/14.3</td><td>SP-SM*</td></tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr><td>1</td><td>Percent Visual Shell</td></tr> <tr><td>2</td><td>Percent Visual Shell</td></tr> <tr><td>3</td><td>Percent Visual Shell</td></tr> <tr><td>4</td><td>Percent Visual Shell</td></tr> <tr><td>5</td><td>Percent Visual Shell</td></tr> <tr><td>6</td><td>Percent Visual Shell</td></tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.3	SP*	2	6.0/6.3	SP*	3	9.0/9.3	SP*	4	10.0/10.3	SP*	5	12.0/12.3	SP-SM*	6	14.0/14.3	SP-SM*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Visual Shell	6	Percent Visual Shell				Abbreviations:		
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Boring Designation VB-SJN15-33

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility			<b>9. SIZE AND TYPE OF BIT</b> See Remarks	
<b>2. BORING DESIGNATION</b> VB-SJN15-33		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		<b>HORIZONTAL</b> NAD83
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b>		<input type="checkbox"/> <b>AUTO HAMMER</b> <input type="checkbox"/> <b>MANUAL HAMMER</b>
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b>		<b>DISTURBED</b> 4
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> <b>VERTICAL</b> <input type="checkbox"/> <b>INCLINED</b>		<b>13. TOTAL NUMBER CORE BOXES</b>		<b>UNDISTURBED (UD)</b> 0
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b>		<b>STARTED</b> 04-09-15
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b>		<b>COMPLETED</b> 04-09-15
		<b>17. TOTAL RECOVERY FOR BORING</b>		100 %
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-49.2	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, few medium-grained sand-sized shell, trace silt, strong reaction with HCl, 2.5Y 6/1 gray (SP)						
			From El. -51.5 to -51.9 Ft., very shelly sand seam		1		-51.2		
			At El. -53.6 Ft., mostly fine-grained sand-sized quartz				-54.2		
			At El. -54.2 Ft., 2.5Y 5/1 gray		2				
			From El. -54.9 to -55.1 Ft., silt seam						
			From El. -55.8 to -55.9 Ft., silt seam						
			At El. -57.0 Ft., little medium-grained sand-sized shell		3		-57.2		
-58.2	9.0		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, little sand to gravel-sized shell, few silt, strong reaction with HCl, 2.5Y 5/1 gray (SP-SM)						
			At El. -58.7 Ft., few medium to coarse-grained sand-sized shell, 2.5Y 4/1 dark gray		4		-58.7		
			At El. -59.8 Ft., little sand to gravel-sized shell, weak reaction with HCl, N 5/ gray						
			At El. -62.4 Ft., 5Y 7/1 light gray						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																										
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																										
LOCATION COORDINATES X = 597,637 Y = 2,071,656			ELEVATION TOP OF BORING -49.2 Ft.																													
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																							
-69.2	20.0		At El. -66.1 Ft., few fine to medium-grained sand-sized shell																													
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.0/2.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>5.0/5.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>8.0/8.3</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>9.5/9.8</td> <td>SP-SM*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> <tr> <td>4</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.3	SP*	2	5.0/5.3	SP*	3	8.0/8.3	SP*	4	9.5/9.8	SP-SM*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell				Abbreviations:		
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-34		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> 5		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED 04-09-15 COMPLETED 04-09-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -41.2 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 100 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-41.2	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little medium-grained sand-sized shell, trace silt, weak reaction with HCl, 2.5Y 7/1 light gray (SP)						
			At El. -44.7 Ft., few medium-grained sand-sized shell, discontinue silt		1		-44.7		
			At El. -48.2 Ft., mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell		2		-48.2		
			At El. -51.2 Ft., mostly fine-grained sand-sized quartz, little fine to medium-grained sand-sized shell, trace silt		3		-51.7		
			At El. -54.7 Ft., 2.5Y 6/2 light brownish gray				-55.2		
			At El. -55.2 Ft., mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell		4				

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																																	
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																	
LOCATION COORDINATES X = 600,555 Y = 2,073,003			ELEVATION TOP OF BORING -41.2 Ft.																																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE REC.	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE																														
-58.6	17.4		At El. -57.0 Ft., little sand to gravel-sized shell		5		-57.2																																
-61.2	20.0		SAND, silty, mostly fine-grained sand-sized quartz, some silt, little fine to medium-grained sand-sized shell, weak reaction with HCl, 10Y 5/1 greenish gray (SM)				-61.2																																
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3.5/3.8</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>7.0/7.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>10.5/10.8</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>14.0/14.3</td> <td>SP*</td> </tr> <tr> <td>5</td> <td>16.0/16.3</td> <td>SP*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Carbonate</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> <tr> <td>4</td> <td>Percent Visual Shell</td> </tr> <tr> <td>5</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.5/3.8	SP*	2	7.0/7.3	SP*	3	10.5/10.8	SP*	4	14.0/14.3	SP*	5	16.0/16.3	SP*	1	Percent Visual Shell	2	Percent Carbonate	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Visual Shell				Abbreviations:		
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4	Percent Visual Shell																																						
5	Percent Visual Shell																																						

Boring Designation VB-SJN15-35

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-35		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 4 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 04-09-15 COMPLETED: 04-09-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -49.6 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 96 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-49.6	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell, strong reaction with HCl, 2.5Y 6/1 gray (SP)						
			At El. -52.6 Ft., few medium-grained sand-sized shell		1				
			At El. -54.1 Ft., some fine to medium-grained sand-sized shell						
			At El. -54.6 Ft., mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, trace silt, weak reaction with HCl, 2.5Y 6/2 light brownish gray		2				
			At El. -56.4 Ft., little fine to medium-grained sand-sized shell, strong reaction with HCl, 2.5Y 6/1 gray						
-58.1	8.5		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, little medium to coarse-grained sand-sized shell, few silt, weak reaction with HCl, 10Y 5/1 greenish gray (SP-SM)		3				
			At El. -59.6 Ft., few medium-grained sand-sized shell		4				
			At El. -60.6 Ft., little sand to gravel-sized shell, strong reaction with HCl						
-61.3	11.7		SILT, inorganic-H, some fine-grained sand-sized quartz, little fine to medium-grained sand-sized shell, weak reaction with HCl, 10Y 4/1 dark greenish gray (MH)						
-64.2	14.6		SAND, clayey, mostly fine-grained						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																	
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																	
LOCATION COORDINATES X = 598,530 Y = 2,072,752			ELEVATION TOP OF BORING -49.6 Ft.																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE														
-64.8	15.2	[Diagonal Hatching Legend]	sand-sized quartz, little clay, trace shell, no reaction with HCl, 10Y 4/1 dark greenish gray (SC)																				
-65.3	15.7																						
-65.9	16.3			[Dotted Legend]	SAND, poorly-graded with clay, mostly fine-grained sand-sized quartz, few clay, discontinuous shell, no reaction with HCl, 2.5Y 7/2 light gray (SP-SC)																		
					SAND, clayey, mostly fine-grained sand-sized quartz, little clay, no reaction with HCl, 5G 5/1 greenish gray (SC)																		
-68.7	19.1	[Dotted Legend]	SAND, poorly-graded, mostly fine-grained sand-sized quartz, some fine to medium-grained sand-sized shell, trace clay, strong reaction with HCl, N 6/ gray (SP)																				
-69.6	20.0						-69.6																
NOTES:			Abbreviations:																				
<p>1. USACE Jacksonville is the custodian for these original files.</p> <p>2. Soils are field visually classified in accordance with the Unified Soils Classification System.</p> <p>3. Laboratory Testing Results</p> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3.0/3.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>6.0/6.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>8.5/8.8</td> <td>SP-SM*</td> </tr> <tr> <td>4</td> <td>10.0/10.3</td> <td>SP-SM*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <p>4. Additional Laboratory Testing</p> <p>1 Percent Visual Shell</p> <p>2 Percent Visual Shell</p> <p>3 Percent Visual Shell</p> <p>4 Percent Visual Shell</p>			SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.3	SP*	2	6.0/6.3	SP*	3	8.5/8.8	SP-SM*	4	10.0/10.3	SP-SM*						
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																					
1	3.0/3.3	SP*																					
2	6.0/6.3	SP*																					
3	8.5/8.8	SP-SM*																					
4	10.0/10.3	SP-SM*																					

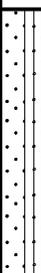
<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-36		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 4 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 03-30-15 COMPLETED: 03-30-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -48.2 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 95 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-48.2	0.0	[Dotted pattern]	SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, some fine to medium-grained sand-sized shell, trace silt, strong reaction with HCl, 2.5Y 6/1 gray (SP)						
			At El. -51.2 Ft., few medium-grained sand-sized shell, discontinue silt, weak reaction with HCl		1			-51.2	
			At El. -54.2 Ft., little medium-grained sand-sized shell, strong reaction with HCl		2			-54.2	
			At El. -56.5 Ft., mostly fine-grained sand-sized quartz, little fine to medium-grained sand-sized shell, weak reaction with HCl, 2.5Y 5/1 gray		3			-57.7	
-58.9	10.7	[Dotted pattern]	SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few fine-grained sand-sized shell, few silt, weak reaction with HCl, 2.5Y 5/1 gray (SP-SM)						
			At El. -61.6 Ft., trace shell, no reaction with HCl		4			-59.7	

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																										
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																										
LOCATION COORDINATES X = 594,015 Y = 2,081,469			ELEVATION TOP OF BORING -48.2 Ft.																													
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																							
-66.0	17.8		From El. -63.6 to -64.0 Ft., shell seam At El. -64.0 Ft., little fine to medium-grained sand-sized shell, weak reaction with HCl, 2.5Y 6/1 gray																													
-67.2	19.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, some fine to medium-grained sand-sized shell, trace siltstone, strong reaction with HCl, 2.5Y 8/1 white (SP)																													
-68.2	20.0						-68.2																									
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3.0/3.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>6.0/6.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>9.5/9.8</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>11.5/11.8</td> <td>SP-SM*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> <tr> <td>4</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.3	SP*	2	6.0/6.3	SP*	3	9.5/9.8	SP*	4	11.5/11.8	SP-SM*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell				Abbreviations:		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																														
1	3.0/3.3	SP*																														
2	6.0/6.3	SP*																														
3	9.5/9.8	SP*																														
4	11.5/11.8	SP-SM*																														
1	Percent Visual Shell																															
2	Percent Visual Shell																															
3	Percent Visual Shell																															
4	Percent Visual Shell																															

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-37		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 4 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 03-30-15 COMPLETED: 03-30-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -50.2 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 93 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-50.2	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell, weak reaction with HCl, 2.5Y 7/1 light gray (SP) From El. -51.0 to -51.5 Ft., shell seam						
					1		-52.2		
-53.9	3.7		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, few silt, weak reaction with HCl, 2.5Y 5/1 gray (SP-SM) From El. -54.8 to -55.0 Ft., shell seam		2		-54.2		
-55.0	4.8		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, few medium-grained sand-sized shell, weak reaction with HCl, 2.5Y 7/1 light gray (SP) At El. -56.7 Ft., 2.5Y 6/1 gray		3		-56.2		
-57.3	7.1		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few silt, few medium-grained sand-sized shell, weak reaction with HCl, 2.5Y 5/1 gray (SP-SM) At El. -63.1 Ft., some fine-grained sand-sized quartz, some sand to gravel-sized shell		4		-58.2		

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																										
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																										
LOCATION COORDINATES X = 593,170 Y = 2,080,870			ELEVATION TOP OF BORING -50.2 Ft.																													
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																							
-68.7	18.5		At El. -67.1 Ft., 8" layer of clayey fine sand																													
-70.2	20.0						-70.2																									
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.0/2.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>4.0/4.3</td> <td>SP-SM*</td> </tr> <tr> <td>3</td> <td>6.0/6.3</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>8.0/8.3</td> <td>SP-SM*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> <tr> <td>4</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.3	SP*	2	4.0/4.3	SP-SM*	3	6.0/6.3	SP*	4	8.0/8.3	SP-SM*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell				Abbreviations:		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																														
1	2.0/2.3	SP*																														
2	4.0/4.3	SP-SM*																														
3	6.0/6.3	SP*																														
4	8.0/8.3	SP-SM*																														
1	Percent Visual Shell																															
2	Percent Visual Shell																															
3	Percent Visual Shell																															
4	Percent Visual Shell																															

Boring Designation VB-SJN15-38

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-38		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> 5		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED 03-29-15 COMPLETED 03-29-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -46.2 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 90 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-46.2	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell, trace silt, strong reaction with HCl, 2.5Y 6/1 gray (SP)						
					1		-48.7		
			At El. -51.2 Ft., few medium-grained sand-sized shell, discontinue silt At El. -51.5 Ft., little fine to medium-grained sand-sized shell, weak reaction with HCl		2		-51.2		
			At El. -53.2 Ft., mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, trace silt, 2.5Y 5/1 gray		3		-53.7		
			At El. -54.7 Ft., some fine to medium-grained sand-sized shell, strong reaction with HCl, 2.5Y 7/1 light gray At El. -55.3 Ft., mostly fine to medium-grained sand-sized quartz, few medium-grained sand-sized shell, weak reaction with HCl, 2.5Y 5/1 gray		4		-55.7		
-56.5	10.3		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, few silt, weak reaction with HCl, 2.5Y 5/1 gray (SP-SM) At El. -57.2 Ft., trace shell		5		-57.2		

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																					
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																					
LOCATION COORDINATES X = 592,199 Y = 2,080,308			ELEVATION TOP OF BORING -46.2 Ft.																								
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																		
-61.5	15.3		SAND, poorly-graded with silt, mostly sand to gravel-sized shell, some fine-grained sand-sized quartz, strong reaction with HCl, 10Y 5/1 greenish gray (SP-SM)  At El. -63.1 Ft., N 7/ light gray  At El. -63.7 Ft., 10Y 5/1 greenish gray																								
-64.2	18.0																										
-66.2	20.0						-66.2																				
			NOTES:  1. USACE Jacksonville is the custodian for these original files.  2. Soils are field visually classified in accordance with the Unified Soils Classification System.  3. Laboratory Testing Results  <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.5/2.8</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>5.0/5.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>7.5/7.8</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>9.5/9.8</td> <td>SP*</td> </tr> <tr> <td>5</td> <td>11.0/11.3</td> <td>SP-SM*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> 4. Additional Laboratory Testing  1 Percent Carbonate 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Visual Shell 5 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.5/2.8	SP*	2	5.0/5.3	SP*	3	7.5/7.8	SP*	4	9.5/9.8	SP*	5	11.0/11.3	SP-SM*				Abbreviations:		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																									
1	2.5/2.8	SP*																									
2	5.0/5.3	SP*																									
3	7.5/7.8	SP*																									
4	9.5/9.8	SP*																									
5	11.0/11.3	SP-SM*																									

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-39		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 3 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 03-30-15 COMPLETED: 03-30-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -48.1 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 73 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-48.1	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little medium-grained sand-sized shell, trace silt, strong reaction with HCl, 2.5Y 7/2 light gray (SP)						
			At El. -52.0 Ft., few medium-grained sand-sized shell		1				
			At El. -53.3 Ft., weak reaction with HCl, 2.5Y 5/1 gray						
-55.0	6.9		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, few silt, weak reaction with HCl, 2.5Y 5/1 gray (SP-SM)		2				
			At El. -60.4 Ft., mostly fine to medium-grained sand-sized quartz, some sand to gravel-sized shell, strong reaction with HCl						
			At El. -61.2 Ft., few fine to medium-grained sand-sized shell, weak reaction with HCl, 2.5Y 6/2 light brownish gray		3				
-62.6	14.5								

<b>DRILLING LOG (Cont. Sheet)</b>			<b>INSTALLATION</b> Jacksonville District				<b>SHEET 2</b>																				
							<b>OF 2 SHEETS</b>																				
<b>PROJECT</b> St. Johns County Feasibility			<b>COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		<b>HORIZONTAL</b> NAD83		<b>VERTICAL</b> NAVD88																				
<b>LOCATION COORDINATES</b> X = 593,489 Y = 2,082,312			<b>ELEVATION TOP OF BORING</b> -48.1 Ft.																								
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																		
-68.1	20.0						-68.1																				
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">SAMPLE ID</th> <th style="text-align: left;">SAMPLE DEPTH</th> <th style="text-align: left;">LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3.0/3.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>6.0/6.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>7.0/7.3</td> <td>SP-SM*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table style="width:100%;"> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.3	SP*	2	6.0/6.3	SP*	3	7.0/7.3	SP-SM*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell				Abbreviations:		
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility			<b>9. SIZE AND TYPE OF BIT</b> See Remarks	
<b>2. BORING DESIGNATION</b> VB-SJN15-40		<b>LOCATION COORDINATES</b> X = 592,660 Y = 2,081,732		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>CONTRACTOR FILE NO.</b> 6738-15-5453		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
<b>4. NAME OF DRILLER</b>			<b>12. TOTAL SAMPLES</b>	<b>DISTURBED</b> 4 <b>UNDISTURBED (UD)</b> 0
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>DEG. FROM VERTICAL</b>	<b>BEARING</b>	<b>13. TOTAL NUMBER CORE BOXES</b> 0
<b>6. THICKNESS OF OVERBURDEN</b> N/A			<b>14. ELEVATION GROUND WATER</b>	
<b>7. DEPTH DRILLED INTO ROCK</b> N/A			<b>15. DATE BORING</b>	<b>STARTED</b> 03-30-15 <b>COMPLETED</b> 03-30-15
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.			<b>16. ELEVATION TOP OF BORING</b> -44.6 Ft.	
			<b>17. TOTAL RECOVERY FOR BORING</b> 83 %	
<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>				

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-44.6	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little medium-grained sand-sized shell, trace silt, weak reaction with HCl, 2.5Y 7/1 light gray (SP)						
			At El. -46.2 Ft., 2.5Y 6/1 gray		1		-46.6		
			From El. -48.0 to -48.2 Ft., shell seam		2		-48.6		
			At El. -48.6 Ft., few medium-grained sand-sized shell		3		-51.1		
			From El. -49.3 to -49.4 Ft., shell seam						
			At El. -50.3 Ft., 2.5Y 5/1 gray		4		-53.6		
-52.7	8.1		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few silt, trace shell, weak reaction with HCl, 2.5Y 5/1 gray (SP-SM)						

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																										
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																										
LOCATION COORDINATES X = 592,660 Y = 2,081,732			ELEVATION TOP OF BORING -44.6 Ft.																													
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																							
-61.2	16.6																															
-64.6	20.0						-64.6																									
			<p>NOTES:</p> <p>1. USACE Jacksonville is the custodian for these original files.</p> <p>2. Soils are field visually classified in accordance with the Unified Soils Classification System.</p> <p>3. Laboratory Testing Results</p> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.0/2.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>4.0/4.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>6.5/6.8</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>9.0/9.3</td> <td>SP-SM*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <p>4. Additional Laboratory Testing</p> <table border="1"> <tbody> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> <tr> <td>4</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.3	SP*	2	4.0/4.3	SP*	3	6.5/6.8	SP*	4	9.0/9.3	SP-SM*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell				Abbreviations:		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																														
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-41		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> 6		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED 03-29-15 COMPLETED 03-29-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -44.5 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 85 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-44.5	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell, trace silt, weak reaction with HCl, 2.5Y 6/1 gray (SP)						
					1		-46.5		
			At El. -48.4 Ft., mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, discontinue silt		2		-48.5		
					3		-50.5		
					4		-52.5		
			At El. -53.8 Ft., few medium-grained sand-sized shell		5		-54.5		
					6		-55.5		

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																																			
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																			
LOCATION COORDINATES X = 591,779 Y = 2,081,200			ELEVATION TOP OF BORING -44.5 Ft.																																						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																																
-61.4	16.9		At El. -60.7 Ft., little sand to gravel-sized shell																																						
-64.5	20.0						-64.5																																		
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr><td>1</td><td>2.0/2.3</td><td>SP*</td></tr> <tr><td>2</td><td>4.0/4.3</td><td>SP*</td></tr> <tr><td>3</td><td>6.0/6.3</td><td>SP*</td></tr> <tr><td>4</td><td>8.0/8.3</td><td>SP*</td></tr> <tr><td>5</td><td>10.0/10.3</td><td>SP*</td></tr> <tr><td>6</td><td>11.0/11.3</td><td>SP*</td></tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr><td>1</td><td>Percent Visual Shell</td></tr> <tr><td>2</td><td>Percent Visual Shell</td></tr> <tr><td>3</td><td>Percent Visual Shell</td></tr> <tr><td>4</td><td>Percent Visual Shell</td></tr> <tr><td>5</td><td>Percent Visual Shell</td></tr> <tr><td>6</td><td>Percent Visual Shell</td></tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.3	SP*	2	4.0/4.3	SP*	3	6.0/6.3	SP*	4	8.0/8.3	SP*	5	10.0/10.3	SP*	6	11.0/11.3	SP*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Visual Shell	6	Percent Visual Shell			Abbreviations:		
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-42		<b>10. COORDINATE SYSTEM/DATUM</b> HORIZONTAL VERTICAL State Plane, FLE (U.S. Ft.) NAD83 NAVD88		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED UNDISTURBED (UD) 5 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED COMPLETED 03-30-15 03-30-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -45.0 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 96 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE	
-45.0	0.0	[Dotted pattern legend]	SAND, poorly-graded, some fine to coarse-grained sand-sized shell, some fine to medium-grained sand-sized quartz, trace silt, strong reaction with HCl, 2.5Y 6/2 light brownish gray (SP) SAND, poorly-graded, mostly fine-grained sand-sized quartz, little medium-grained sand-sized shell (SP)							
-46.1	1.1									
						1		-47.5		
						2		-50.0		
						3		-52.0		
			At El. -52.1 Ft., 2.5Y 5/2 grayish brown							
				4		-54.0				
				5		-56.5				
			At El. -55.8 Ft., little fine-grained sand-sized shell, weak reaction with HCl, 10Y 5/1 greenish gray							

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																														
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																														
LOCATION COORDINATES X = 592,989 Y = 2,083,186			ELEVATION TOP OF BORING -45.0 Ft.																																	
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																											
-64.1	19.1		At El. -62.4 Ft., little fine to coarse-grained sand-sized shell																																	
-65.0	20.0						-65.0																													
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.5/2.8</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>5.0/5.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>7.0/7.3</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>9.0/9.3</td> <td>SP*</td> </tr> <tr> <td>5</td> <td>11.5/11.8</td> <td>SP*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> <tr> <td>4</td> <td>Percent Visual Shell</td> </tr> <tr> <td>5</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.5/2.8	SP*	2	5.0/5.3	SP*	3	7.0/7.3	SP*	4	9.0/9.3	SP*	5	11.5/11.8	SP*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Visual Shell				Abbreviations:	
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-43		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> 5		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED 03-30-15 COMPLETED 03-30-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -43.5 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 95 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-43.5	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell, weak reaction with HCl, 2.5Y 7/1 light gray (SP)						
			From El. -45.9 to -50.9 Ft., intermittent seams of shell and silt (seams vary from 1" to 3")		1		-46.5		
			At El. -49.0 Ft., mostly fine-grained sand-sized quartz, some medium-grained sand-sized shell, strong reaction with HCl		2		-49.0		
			At El. -51.8 Ft., mostly fine to medium-grained sand-sized quartz, little medium to coarse-grained sand-sized shell, trace silt		3		-52.0		
			At El. -52.5 Ft., mostly fine-grained sand-sized quartz, trace shell, weak reaction with HCl, 2.5Y 6/1 gray		4		-53.5		
			At El. -53.5 Ft., few medium-grained sand-sized shell						
			At El. -54.5 Ft., 2.5Y 5/1 gray		5		-55.5		

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																					
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																					
LOCATION COORDINATES X = 592,150 Y = 2,082,636			ELEVATION TOP OF BORING -43.5 Ft.																								
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																		
-62.4	18.9																										
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-44		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 6 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 03-29-15 COMPLETED: 03-29-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -40.9 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 93 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-40.9	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell, trace silt, weak reaction with HCl, 2.5Y 6/2 light brownish gray (SP)						
			At El. -44.2 Ft., some medium-grained sand-sized shell		1				
			At El. -48.9 Ft., mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, 2.5Y 6/1 gray		2				
			At El. -50.9 Ft., little medium-grained sand-sized shell		3				
			At El. -52.9 Ft., mostly fine to medium-grained sand-sized quartz, few medium-grained sand-sized shell, discontinue silt		4				
			From El. -54.6 to -54.8 Ft., sandy silt seam		5				
			At El. -54.9 Ft., mostly fine-grained sand-sized quartz, few fine-grained sand-sized shell, trace silt		6				
-55.9	15.0								

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																																				
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																				
LOCATION COORDINATES X = 591,300 Y = 2,082,068			ELEVATION TOP OF BORING -40.9 Ft.																																							
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																																	
-59.5	18.6		SAND, silty, mostly fine-grained sand-sized quartz, little silt, few fine-grained sand-sized shell, weak reaction with HCl, 2.5Y 5/1 gray (SM)  At El. -57.6 Ft., little sand to gravel-sized shell At El. -58.2 Ft., few fine-grained sand-sized shell																																							
-60.9	20.0						-60.9																																			
			<p>NOTES:</p> <p>1. USACE Jacksonville is the custodian for these original files.</p> <p>2. Soils are field visually classified in accordance with the Unified Soils Classification System.</p> <p>3. Laboratory Testing Results</p> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr><td>1</td><td>3.0/3.3</td><td>SP*</td></tr> <tr><td>2</td><td>6.0/6.3</td><td>SP*</td></tr> <tr><td>3</td><td>9.0/9.3</td><td>SP*</td></tr> <tr><td>4</td><td>10.0/10.3</td><td>SP*</td></tr> <tr><td>5</td><td>12.0/12.3</td><td>SP*</td></tr> <tr><td>6</td><td>14.0/14.3</td><td>SP*</td></tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <p>4. Additional Laboratory Testing</p> <table border="1"> <tbody> <tr><td>1</td><td>Percent Visual Shell</td></tr> <tr><td>2</td><td>Percent Visual Shell</td></tr> <tr><td>3</td><td>Percent Visual Shell</td></tr> <tr><td>4</td><td>Percent Visual Shell</td></tr> <tr><td>5</td><td>Percent Visual Shell</td></tr> <tr><td>6</td><td>Percent Visual Shell</td></tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.3	SP*	2	6.0/6.3	SP*	3	9.0/9.3	SP*	4	10.0/10.3	SP*	5	12.0/12.3	SP*	6	14.0/14.3	SP*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Visual Shell	6	Percent Visual Shell				Abbreviations:		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																																								
1	3.0/3.3	SP*																																								
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-45		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> 5		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED 03-30-15 COMPLETED 03-30-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -47.7 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 83 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-47.7	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little medium-grained sand-sized shell, trace silt, strong reaction with HCl, N 4/ dark gray (SP)						
			At El. -50.0 Ft., 2.5Y 6/2 light brownish gray		1		-49.7		
			At El. -51.2 Ft., few medium-grained sand-sized shell		2		-51.2		
			At El. -52.1 Ft., mostly fine to medium-grained sand-sized quartz, little medium to coarse-grained sand-sized shell		3		-53.7		
			At El. -54.1 Ft., mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, discontinue silt		4		-55.2		
			At El. -55.8 Ft., few fine-grained sand-sized shell, trace silt, weak reaction with HCl, 10Y 5/1 greenish gray		5		-56.7		

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																					
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																					
LOCATION COORDINATES X = 592,411 Y = 2,084,012			ELEVATION TOP OF BORING -47.7 Ft.																								
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																		
-64.3	16.6	•••••																									
-67.7	20.0						-67.7																				
			NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr><td>1</td><td>2.0/2.3</td><td>SP*</td></tr> <tr><td>2</td><td>3.5/3.8</td><td>SP*</td></tr> <tr><td>3</td><td>6.0/6.3</td><td>SP*</td></tr> <tr><td>4</td><td>7.5/7.8</td><td>SP*</td></tr> <tr><td>5</td><td>9.0/9.3</td><td>SP*</td></tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Visual Shell 5 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.3	SP*	2	3.5/3.8	SP*	3	6.0/6.3	SP*	4	7.5/7.8	SP*	5	9.0/9.3	SP*				Abbreviations:		
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5	9.0/9.3	SP*																									

Boring Designation VB-SJN15-46

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility			<b>9. SIZE AND TYPE OF BIT</b> See Remarks	
<b>2. BORING DESIGNATION</b> VB-SJN15-46			<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)	
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ			<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER	
<b>4. NAME OF DRILLER</b>			<b>12. TOTAL SAMPLES</b> DISTURBED: 6 UNDISTURBED (UD): 0	
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			<b>13. TOTAL NUMBER CORE BOXES</b> 0	
<b>6. THICKNESS OF OVERBURDEN</b> N/A			<b>14. ELEVATION GROUND WATER</b>	
<b>7. DEPTH DRILLED INTO ROCK</b> N/A			<b>15. DATE BORING</b> STARTED: 03-30-15 COMPLETED: 03-30-15	
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.			<b>16. ELEVATION TOP OF BORING</b> -40.2 Ft.	
			<b>17. TOTAL RECOVERY FOR BORING</b> 85 %	
			<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-40.2	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, some medium-grained sand-sized shell, strong reaction with HCl, 2.5Y 6/1 gray (SP)						
					1		-43.2		
			At El. -45.6 Ft., mostly fine-grained sand-sized quartz, little medium-grained sand-sized shell, trace silt, weak reaction with HCl, 2.5Y 6/2 light brownish gray		2		-46.2		
			At El. -48.2 Ft., mostly fine to medium-grained sand-sized quartz, few medium-grained sand-sized shell		3		-48.2		
			At El. -51.5 Ft., few fine to medium-grained sand-sized shell, 2.5Y 6/1 gray		4		-50.2		
			At El. -52.2 Ft., mostly fine-grained sand-sized quartz, trace shell		5		-52.2		
			At El. -52.7 Ft., few fine-grained sand-sized shell		6		-53.7		
-54.1	13.9		SAND, silty, mostly fine-grained sand-sized quartz, little silt, trace shell, weak reaction with HCl, 2.5Y 5/1 gray (SM)						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																																			
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																			
LOCATION COORDINATES X = 591,577 Y = 2,083,467			ELEVATION TOP OF BORING -40.2 Ft.																																						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																																
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility			<b>9. SIZE AND TYPE OF BIT</b> See Remarks	
<b>2. BORING DESIGNATION</b> VB-SJN15-47		<b>LOCATION COORDINATES</b> X = 590,732 Y = 2,082,887		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>CONTRACTOR FILE NO.</b> 6738-15-5453		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
<b>4. NAME OF DRILLER</b>			<b>12. TOTAL SAMPLES</b>	<b>DISTURBED</b> 5
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			<b>13. TOTAL NUMBER CORE BOXES</b>	<b>UNDISTURBED (UD)</b> 0
<b>6. THICKNESS OF OVERBURDEN</b>		N/A		<b>14. ELEVATION GROUND WATER</b>
<b>7. DEPTH DRILLED INTO ROCK</b>		N/A		<b>15. DATE BORING</b>
<b>8. TOTAL DEPTH OF BORING</b>		20.0 Ft.		<b>STARTED</b> 03-29-15
			<b>16. ELEVATION TOP OF BORING</b>	<b>COMPLETED</b> 03-29-15
			<b>17. TOTAL RECOVERY FOR BORING</b>	84 %
			<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-42.8	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell, weak reaction with HCl, 2.5Y 7/1 light gray (SP)						
			At El. -46.2 Ft., 2.5Y 6/1 gray		1		-46.3		
			From El. -47.7 to -47.9 Ft., sand seam						
			At El. -49.8 Ft., few medium-grained sand-sized shell, trace silt		2		-49.8		
			From El. -50.2 to -50.6 Ft., shell seam						
			At El. -53.3 Ft., mostly fine-grained sand-sized quartz		3		-53.3		
			At El. -55.3 Ft., little medium to coarse-grained sand-sized shell, strong reaction with HCl, 2.5Y 5/1 gray		4		-55.8		
-57.4	14.6		SAND, poorly-graded with silt, mostly				-57.8		

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																					
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																					
LOCATION COORDINATES X = 590,732 Y = 2,082,887			ELEVATION TOP OF BORING -42.8 Ft.																								
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE																		
-58.9	16.1		fine-grained sand-sized quartz, little medium-grained sand-sized shell, few silt, strong reaction with HCl, 2.5Y 5/1 gray (SP-SM)		5																						
-59.6	16.8		From El. -58.7 to -58.9 Ft., shell seam SAND, silty, mostly sand to gravel-sized shell, little fine-grained sand-sized quartz, weak reaction with HCl, 2.5Y 5/1 gray (SM)																								
-62.8	20.0						-62.8																				
NOTES:			Abbreviations:																								
<p>1. USACE Jacksonville is the custodian for these original files.</p> <p>2. Soils are field visually classified in accordance with the Unified Soils Classification System.</p> <p>3. Laboratory Testing Results</p> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3.5/3.8</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>7.0/7.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>10.5/10.8</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>13.0/13.3</td> <td>SP*</td> </tr> <tr> <td>5</td> <td>15.0/15.3</td> <td>SP-SM*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <p>4. Additional Laboratory Testing</p> <ul style="list-style-type: none"> <li>1 Percent Visual Shell</li> <li>2 Percent Visual Shell</li> <li>3 Percent Visual Shell</li> <li>4 Percent Carbonate</li> <li>4 Percent Visual Shell</li> <li>5 Percent Visual Shell</li> </ul>			SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.5/3.8	SP*	2	7.0/7.3	SP*	3	10.5/10.8	SP*	4	13.0/13.3	SP*	5	15.0/15.3	SP-SM*							
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																									
1	3.5/3.8	SP*																									
2	7.0/7.3	SP*																									
3	10.5/10.8	SP*																									
4	13.0/13.3	SP*																									
5	15.0/15.3	SP-SM*																									

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-48		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> 5		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED 03-29-15 COMPLETED 03-29-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -42.2 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 95 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-42.2	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, some fine to medium-grained sand-sized shell, strong reaction with HCl, 2.5Y 6/2 light brownish gray (SP)						
			At El. -45.7 Ft., some medium to coarse-grained sand-sized shell		1		-45.7		
			At El. -47.8 Ft., little medium-grained sand-sized shell, 2.5Y 7/2 light gray						
			At El. -48.7 Ft., 2.5Y 6/2 light brownish gray				-49.2		
			From El. -49.6 to -49.8 Ft., silt seam		2				
			At El. -50.7 Ft., few medium-grained sand-sized shell, trace silt, weak reaction with HCl				-50.7		
			At El. -51.2 Ft., mostly fine-grained sand-sized quartz, trace shell, 2.5Y 7/1 light gray		3				
			At El. -53.4 Ft., 2.5Y 6/1 gray				-53.2		
			At El. -54.4 Ft., few fine to medium-grained sand-sized shell		4				
			At El. -55.1 Ft., few fine-grained sand-sized shell, 2.5Y 5/1 gray				-55.7		
			At El. -55.7 Ft., trace silt		5				

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																					
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																					
LOCATION COORDINATES X = 589,867 Y = 2,082,392			ELEVATION TOP OF BORING -42.2 Ft.																								
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																		
-61.2	19.0																										
-62.2	20.0						-62.2																				
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility			<b>9. SIZE AND TYPE OF BIT</b> See Remarks	
<b>2. BORING DESIGNATION</b> VB-SJN15-49			<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)	
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ			<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER	
<b>4. NAME OF DRILLER</b>			<b>12. TOTAL SAMPLES</b> 7	
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			<b>13. TOTAL NUMBER CORE BOXES</b> 0	
<b>6. THICKNESS OF OVERBURDEN</b> N/A			<b>14. ELEVATION GROUND WATER</b>	
<b>7. DEPTH DRILLED INTO ROCK</b> N/A			<b>15. DATE BORING</b> STARTED 03-30-15 COMPLETED 03-30-15	
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.			<b>16. ELEVATION TOP OF BORING</b> -42.0 Ft.	
			<b>17. TOTAL RECOVERY FOR BORING</b> 98 %	
			<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-42.0	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell, trace silt, strong reaction with HCl, 2.5Y 6/1 gray (SP)						
					1				
			From El. -47.2 to -47.4 Ft., silt seam						
					2				
			At El. -50.0 Ft., mostly fine-grained sand-sized quartz From El. -50.3 to -50.5 Ft., shell seam						
					3				
			At El. -52.0 Ft., mostly fine to medium-grained sand-sized quartz, little sand to gravel-sized shell From El. -52.1 to -52.4 Ft., shell seam						
					4				
			At El. -54.0 Ft., few medium-grained sand-sized shell, weak reaction with HCl						
					5				
			At El. -56.0 Ft., trace shell						
					6				

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																																									
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																									
LOCATION COORDINATES X = 591,912 Y = 2,084,849			ELEVATION TOP OF BORING -42.0 Ft.																																												
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																																						
-58.0	16.0		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few silt, trace shell, weak reaction with HCl, 2.5Y 6/1 gray (SP-SM) At El. -58.4 Ft., 2.5Y 5/1 gray		7																																										
-61.5	19.5																																														
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			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr><td>1</td><td>3.0/3.3</td><td>SP*</td></tr> <tr><td>2</td><td>6.0/6.3</td><td>SP*</td></tr> <tr><td>3</td><td>8.0/8.3</td><td>SP*</td></tr> <tr><td>4</td><td>10.0/10.3</td><td>SP*</td></tr> <tr><td>5</td><td>12.0/12.3</td><td>SP*</td></tr> <tr><td>6</td><td>14.0/14.3</td><td>SP*</td></tr> <tr><td>7</td><td>16.0/16.3</td><td>SP-SM*</td></tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr><td>1</td><td>Percent Visual Shell</td></tr> <tr><td>2</td><td>Percent Visual Shell</td></tr> <tr><td>3</td><td>Percent Visual Shell</td></tr> <tr><td>4</td><td>Percent Visual Shell</td></tr> <tr><td>5</td><td>Percent Visual Shell</td></tr> <tr><td>6</td><td>Percent Visual Shell</td></tr> <tr><td>7</td><td>Percent Visual Shell</td></tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.3	SP*	2	6.0/6.3	SP*	3	8.0/8.3	SP*	4	10.0/10.3	SP*	5	12.0/12.3	SP*	6	14.0/14.3	SP*	7	16.0/16.3	SP-SM*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Visual Shell	6	Percent Visual Shell	7	Percent Visual Shell				Abbreviations:		
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-50		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 6 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 03-30-15 COMPLETED: 03-30-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -41.7 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 97 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-41.7	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell, trace silt, strong reaction with HCl, 2.5Y 5/1 gray (SP)						
					1		-44.7		
			At El. -46.7 Ft., 2.5Y 6/1 gray						
					2		-47.7		
			From El. -49.5 to -49.7 Ft., shell seam At El. -49.7 Ft., few medium-grained sand-sized shell, 2.5Y 7/1 light gray						
					3		-50.7		
			At El. -53.8 Ft., mostly fine-grained sand-sized quartz, trace shell, weak reaction with HCl, 2.5Y 7/1 light gray						
					4		-54.2		
			At El. -56.2 Ft., few medium-grained						
					5		-56.2		

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																								
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																								
LOCATION COORDINATES X = 591,035 Y = 2,084,311			ELEVATION TOP OF BORING -41.7 Ft.																											
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																					
-57.7	16.0		sand-sized shell At El. -56.4 Ft., 2.5Y 5/1 gray																											
-61.0	19.3		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, few silt, weak reaction with HCl, 2.5Y 5/1 gray (SP-SM)		6			-58.2																						
-61.7	20.0							-61.7																						
			NOTES:																											
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-51		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> 7		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED 03-29-15 COMPLETED 03-29-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -41.2 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 100 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-41.2	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell, strong reaction with HCl, 2.5Y 7/2 light gray (SP)						
					1		-44.2		
			From El. -46.9 to -47.2 Ft., shell seam At El. -47.2 Ft., trace silt		2		-47.2		
			At El. -50.2 Ft., mostly fine-grained sand-sized quartz		3		-50.2		
			At El. -53.2 Ft., mostly fine to medium-grained sand-sized quartz, few medium-grained sand-sized shell, weak reaction with HCl		4		-53.2		
							-56.2		

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																										
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																										
LOCATION COORDINATES X = 590,201 Y = 2,083,725			ELEVATION TOP OF BORING -41.2 Ft.																													
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE REC.	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE																							
-61.2	20.0		At El. -57.9 Ft., mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, N 7/ light gray At El. -58.7 Ft., 2.5Y 5/1 gray  At El. -60.2 Ft., little medium to coarse-grained sand-sized shell From El. -60.3 to -60.7 Ft., shell seam		5																											
						6		-58.2																								
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			NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr><td>1</td><td>3.0/3.3</td><td>SP*</td></tr> <tr><td>2</td><td>6.0/6.3</td><td>SP*</td></tr> <tr><td>3</td><td>9.0/9.3</td><td>SP*</td></tr> <tr><td>4</td><td>12.0/12.3</td><td>SP*</td></tr> <tr><td>5</td><td>15.0/15.3</td><td>SP*</td></tr> <tr><td>6</td><td>17.0/17.3</td><td>SP*</td></tr> <tr><td>7</td><td>19.0/19.3</td><td>SP*</td></tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Visual Shell 5 Percent Carbonate 5 Percent Visual Shell 6 Percent Visual Shell 7 Percent Visual Shell 3 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.3	SP*	2	6.0/6.3	SP*	3	9.0/9.3	SP*	4	12.0/12.3	SP*	5	15.0/15.3	SP*	6	17.0/17.3	SP*	7	19.0/19.3	SP*				Abbreviations:	
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-52		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 7 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 03-29-15 COMPLETED: 03-29-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -41.9 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 83 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-41.9	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, few medium-grained sand-sized shell, weak reaction with HCl, 2.5Y 6/2 light brownish gray (SP)						
					1		-43.9		
			At El. -45.9 Ft., trace silt		2		-45.9		
			At El. -46.7 Ft., little fine to medium-grained sand-sized shell				-47.9		
			At El. -47.9 Ft., few medium-grained sand-sized shell, discontinue silt		3		-49.9		
			At El. -49.7 Ft., little medium-grained sand-sized shell, trace silt, strong reaction with HCl		4		-51.9		
			At El. -51.9 Ft., mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, weak reaction with HCl		5		-53.9		
			At El. -53.9 Ft., mostly fine to medium-grained sand-sized quartz, trace shell		6		-55.9		
			At El. -55.7 Ft., mostly fine-grained sand-sized quartz, 2.5Y 5/1 gray		7				

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																																								
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																								
LOCATION COORDINATES X = 589,320 Y = 2,083,241			ELEVATION TOP OF BORING -41.9 Ft.																																											
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																																					
-57.9	16.0		SAND, clayey, mostly fine-grained sand-sized quartz, some sand to gravel-sized shell, little clay, strong reaction with HCl, 2.5Y 4/1 dark gray (SC)																																											
-58.4	16.5																																													
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SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																																												
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3	6.0/6.3	SP*																																												
4	8.0/8.3	SP*																																												
5	10.0/10.3	SP*																																												
6	12.0/12.3	SP*																																												
7	14.0/14.3	SP*																																												
1	Percent Visual Shell																																													
2	Percent Visual Shell																																													
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5	Percent Visual Shell																																													
6	Percent Visual Shell																																													
7	Percent Visual Shell																																													

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility			<b>9. SIZE AND TYPE OF BIT</b> See Remarks	
<b>2. BORING DESIGNATION</b> VB-SJN15-53			<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)	
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ			<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER	
<b>4. NAME OF DRILLER</b>			<b>12. TOTAL SAMPLES</b> 5	
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			<b>13. TOTAL NUMBER CORE BOXES</b> 0	
<b>6. THICKNESS OF OVERBURDEN</b> N/A			<b>14. ELEVATION GROUND WATER</b>	
<b>7. DEPTH DRILLED INTO ROCK</b> N/A			<b>15. DATE BORING</b> 03-29-15	
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.			<b>16. ELEVATION TOP OF BORING</b> -45.7 Ft.	
			<b>17. TOTAL RECOVERY FOR BORING</b> 100 %	
			<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-45.7	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little medium-grained sand-sized shell, strong reaction with HCl, 2.5Y 6/1 gray (SP)						
			At El. -47.4 Ft., little fine-grained sand-sized shell, weak reaction with HCl						
			At El. -48.8 Ft., trace silt		1		-49.2		
			From El. -50.3 to -50.7 Ft., shell seams						
			At El. -51.8 Ft., few medium-grained sand-sized shell		2		-52.7		
			At El. -53.3 Ft., little fine to medium-grained sand-sized shell						
			At El. -54.5 Ft., 2" shell seam						
			At El. -54.7 Ft., trace shell, 2.5Y 6/1 gray		3		-55.7		
			At El. -57.7 Ft., few medium-grained sand-sized shell, 2.5Y 5/1 gray		4		-57.7		
-59.3	13.6		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, few silt, weak reaction with HCl, 2.5Y 5/1 gray		5		-59.7		

<b>DRILLING LOG (Cont. Sheet)</b>			<b>INSTALLATION</b> Jacksonville District				SHEET 2 OF 2 SHEETS																														
			<b>PROJECT</b> St. Johns County Feasibility			<b>COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		<b>HORIZONTAL</b> NAD83	<b>VERTICAL</b> NAVD88																												
<b>LOCATION COORDINATES</b> X = 591,370 Y = 2,085,686			<b>ELEVATION TOP OF BORING</b> -45.7 Ft.																																		
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																												
		(SP-SM)																																			
-65.7	20.0	+					-65.7																														
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">SAMPLE ID</th> <th style="text-align: left;">SAMPLE DEPTH</th> <th style="text-align: left;">LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3.5/3.8</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>7.0/7.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>10.0/10.3</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>12.0/12.3</td> <td>SP*</td> </tr> <tr> <td>5</td> <td>14.0/14.3</td> <td>SP-SM*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table style="width: 100%;"> <tbody> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> <tr> <td>4</td> <td>Percent Visual Shell</td> </tr> <tr> <td>5</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.5/3.8	SP*	2	7.0/7.3	SP*	3	10.0/10.3	SP*	4	12.0/12.3	SP*	5	14.0/14.3	SP-SM*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Visual Shell				Abbreviations:		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																																			
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility			<b>9. SIZE AND TYPE OF BIT</b> See Remarks	
<b>2. BORING DESIGNATION</b> VB-SJN15-54			<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)	
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ			<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER	
<b>4. NAME OF DRILLER</b>			<b>12. TOTAL SAMPLES</b> 6	
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			<b>13. TOTAL NUMBER CORE BOXES</b> 0	
<b>6. THICKNESS OF OVERBURDEN</b> N/A			<b>14. ELEVATION GROUND WATER</b>	
<b>7. DEPTH DRILLED INTO ROCK</b> N/A			<b>15. DATE BORING</b> 03-29-15	
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.			<b>16. ELEVATION TOP OF BORING</b> -45.9 Ft.	
			<b>17. TOTAL RECOVERY FOR BORING</b> 100 %	
			<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-45.9	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized quartz, trace silt, strong reaction with HCl, 2.5Y 6/2 light brownish gray (SP)						
			From El. -47.7 to -47.8 Ft., sandy silt seam		1		-47.9		
			At El. -49.0 Ft., some fine to medium-grained sand-sized shell, some fine to medium-grained sand-sized quartz		2		-49.9		
			At El. -49.9 Ft., mostly fine-grained sand-sized quartz, little medium-grained sand-sized shell						
			At El. -50.4 Ft., 2" shell seam						
			At El. -50.6 Ft., 2.5Y 6/1 gray						
			At El. -51.9 Ft., few medium-grained sand-sized shell		3		-51.9		
			At El. -53.7 Ft., few fine to medium-grained sand-sized shell, weak reaction with HCl, 2.5Y 5/1 gray		4		-53.9		
			From El. -54.7 to -55.1 Ft., intermittent sandy silt seams						
			At El. -55.7 Ft., mostly fine to medium-grained sand-sized quartz, few medium-grained sand-sized shell, 2.5Y 6/1 gray		5		-55.9		
			From El. -56.9 to -57.1 Ft., shelly sand seam						
			At El. -57.1 Ft., mostly fine-grained sand-sized quartz, few fine-grained sand-sized shell, 2.5Y 5/1 gray		6		-57.9		
-57.9	12.0		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, few silt, weak reaction with HCl, 2.5Y 5/1 gray (SP-SM)						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																								
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																								
LOCATION COORDINATES X = 590,457 Y = 2,085,161			ELEVATION TOP OF BORING -45.9 Ft.																											
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE																					
-65.9	20.0		At El. -61.4 Ft., little sand to gravel-sized shell  At El. -63.8 Ft., trace shell, N 5/ gray																											
			NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr><td>1</td><td>2.0/2.3</td><td>SP*</td></tr> <tr><td>2</td><td>4.0/4.3</td><td>SP*</td></tr> <tr><td>3</td><td>6.0/6.3</td><td>SP*</td></tr> <tr><td>4</td><td>8.0/8.3</td><td>SP*</td></tr> <tr><td>5</td><td>10.0/10.3</td><td>SP*</td></tr> <tr><td>6</td><td>12.0/12.3</td><td>SP-SM*</td></tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Visual Shell 5 Percent Visual Shell 6 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.3	SP*	2	4.0/4.3	SP*	3	6.0/6.3	SP*	4	8.0/8.3	SP*	5	10.0/10.3	SP*	6	12.0/12.3	SP-SM*				Abbreviations:		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																												
1	2.0/2.3	SP*																												
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DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																											
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																											
LOCATION COORDINATES X = 589,676 Y = 2,084,550			ELEVATION TOP OF BORING -42.8 Ft.																														
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																								
-59.6	16.8				7			-58.8																									
-62.1	19.3		SAND, silty, mostly fine-grained sand-sized quartz, little silt, weak reaction with HCl, 2.5Y 5/1 gray (SM)  At El. -61.1 Ft., few fine-grained sand-sized shell																														
-62.8	20.0		SAND, poorly-graded with silt, mostly fine to medium-grained sand-sized quartz, some sand to gravel-sized shell, few silt, strong reaction with HCl, N 5/ gray (SP-SM)					-62.8																									
			NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr><td>1</td><td>2.0/2.3</td><td>SP*</td></tr> <tr><td>2</td><td>4.0/4.3</td><td>SP*</td></tr> <tr><td>3</td><td>6.0/6.3</td><td>SP*</td></tr> <tr><td>4</td><td>8.0/8.3</td><td>SP-SM*</td></tr> <tr><td>5</td><td>10.0/10.3</td><td>SP*</td></tr> <tr><td>6</td><td>13.0/13.3</td><td>SP*</td></tr> <tr><td>7</td><td>16.0/16.3</td><td>SP*</td></tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Visual Shell 5 Percent Visual Shell 6 Percent Visual Shell 7 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.3	SP*	2	4.0/4.3	SP*	3	6.0/6.3	SP*	4	8.0/8.3	SP-SM*	5	10.0/10.3	SP*	6	13.0/13.3	SP*	7	16.0/16.3	SP*				Abbreviations:		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																															
1	2.0/2.3	SP*																															
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4	8.0/8.3	SP-SM*																															
5	10.0/10.3	SP*																															
6	13.0/13.3	SP*																															
7	16.0/16.3	SP*																															

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-56		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 6 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 03-29-15 COMPLETED: 03-29-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -40.5 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 93 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE	
-40.5	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, few medium-grained sand-sized shell, trace silt, weak reaction with HCl, 2.5Y 7/2 light gray (SP)  At El. -49.5 Ft., mostly fine-grained sand-sized quartz  At El. -51.5 Ft., trace shell, 2.5Y 6/1 gray  At El. -52.3 Ft., few fine to medium-grained sand-sized shell							
							1		-43.5	
							2		-46.5	
							3		-49.5	
							4		-51.5	
-53.5	13.0		SAND, poorly-graded with silt, mostly fine to medium-grained sand-sized quartz, few silt, few medium-grained sand-sized shell, weak reaction with HCl, 2.5Y 6/1 gray (SP-SM)		5		-53.5			
-55.5	15.0						-55.5			

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																																					
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																					
LOCATION COORDINATES X = 588,768 Y = 2,084,067			ELEVATION TOP OF BORING -40.5 Ft.																																								
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE																																		
-56.6	16.1		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, few medium-grained sand-sized shell, trace silt, weak reaction with HCl, 2.5Y 6/1 gray (SP)		6																																						
-59.0	18.5		SAND, silty, mostly fine-grained sand-sized quartz, little silt, trace shell, weak reaction with HCl, 2.5Y 6/1 gray (SM)																																								
-60.5	20.0						-60.5																																				
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-57		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 6 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 03-29-15 COMPLETED: 03-29-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -38.2 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 96 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-38.2	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, few medium-grained sand-sized shell, trace silt, weak reaction with HCl, 2.5Y 6/2 light brownish gray (SP)						
					1		-41.2		
					2		-44.2		
					3		-47.2		
					4		-50.2		
			At El. -50.2 Ft., little medium-grained sand-sized shell						
							-53.2		

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																																						
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																						
LOCATION COORDINATES X = 587,796 Y = 2,085,832			ELEVATION TOP OF BORING -38.2 Ft.																																									
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE																																			
			-At El. -53.2 Ft., trace shell		5																																							
			-At El. -55.1 Ft., mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, 2.5Y 5/1 gray		6		-55.7																																					
-57.3	19.1																																											
-58.2	20.0						-58.2																																					
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Boring Designation VB-SJN15-58

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility			<b>9. SIZE AND TYPE OF BIT</b> See Remarks	
<b>2. BORING DESIGNATION</b> VB-SJN15-58		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		<b>HORIZONTAL</b> NAD83
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b>		<input type="checkbox"/> <b>AUTO HAMMER</b> <input type="checkbox"/> <b>MANUAL HAMMER</b>
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b>		<b>DISTURBED</b> 7
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> <b>VERTICAL</b> <input type="checkbox"/> <b>INCLINED</b>		<b>13. TOTAL NUMBER CORE BOXES</b>		<b>UNDISTURBED (UD)</b> 0
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b>		<b>STARTED</b> 03-29-15
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b>		<b>COMPLETED</b> 03-29-15
		<b>17. TOTAL RECOVERY FOR BORING</b>		85 %
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-43.8	0.0								
-45.1	1.3		SAND, poorly-graded, mostly sand to gravel-sized shell, little fine to medium-grained sand-sized quartz, strong reaction with HCl, 2.5Y 4/1 dark gray (SP)						
			SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, some fine to coarse-grained sand-sized shell, trace silt, 2.5Y 7/1 light gray (SP)						
			At El. -46.2 Ft., little medium-grained sand-sized shell, weak reaction with HCl		1		-46.8		
			At El. -48.8 Ft., some sand to gravel-sized shell, strong reaction with HCl						
			At El. -49.5 Ft., few medium-grained sand-sized shell, weak reaction with HCl		2		-49.8		
			At El. -51.7 Ft., 2.5Y 6/1 gray						
			From El. -52.1 to -52.4 Ft., silty sand seam						
			At El. -52.8 Ft., mostly fine-grained sand-sized quartz		3		-52.8		
					4		-54.8		
					5		-56.8		
-57.3	13.5								
-58.8	15.0		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, few silt, weak reaction with HCl, 2.5Y 6/1 gray (SP-SM)				-58.8		

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																											
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																											
LOCATION COORDINATES X = 588,713 Y = 2,088,437			ELEVATION TOP OF BORING -43.8 Ft.																														
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE																								
-59.5	15.7		From El. -58.4 to -58.6 Ft., sandy silt seams SAND, poorly-graded, mostly fine-grained sand-sized quartz, little medium-grained sand-sized shell, trace silt, strong reaction with HCl, 2.5Y 6/1 gray (SP)		6																												
-60.7	16.9		From El. -59.3 to -59.7 Ft., very shelly silty sand seam SAND, poorly-graded with silt, mostly sand to gravel-sized shell, some fine to medium-grained sand-sized quartz, few silt, strong reaction with HCl, 2.5Y 5/1 gray (SP-SM)		7		-59.8																										
-63.8	20.0						-63.8																										
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-59		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> 6		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> 03-29-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -40.1 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 100 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-40.1	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, few fine-grained sand-sized shell, weak reaction with HCl, 2.5Y 6/2 light brownish gray (SP)						
			At El. -41.5 Ft., few medium-grained sand-sized shell		1				
					2				
			At El. -49.1 Ft., mostly fine-grained sand-sized quartz, trace silt		3				
			At El. -50.0 Ft., mostly fine to medium-grained sand-sized quartz		4				
			At El. -51.2 Ft., mostly fine-grained sand-sized quartz		5				
			At El. -53.6 Ft., trace shell						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																								
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																								
LOCATION COORDINATES X = 586,166 Y = 2,088,102			ELEVATION TOP OF BORING -40.1 Ft.																											
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																					
		•••••	At El. -55.4 Ft., 5G 5/1 greenish gray		6																									
-60.1	20.0																													
			NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr><td>1</td><td>3.0/3.3</td><td>SP*</td></tr> <tr><td>2</td><td>6.0/6.3</td><td>SP*</td></tr> <tr><td>3</td><td>9.0/9.3</td><td>SP*</td></tr> <tr><td>4</td><td>10.5/10.8</td><td>SP*</td></tr> <tr><td>5</td><td>13.5/13.8</td><td>SP*</td></tr> <tr><td>6</td><td>15.5/15.8</td><td>SP*</td></tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Visual Shell 5 Percent Visual Shell 6 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.3	SP*	2	6.0/6.3	SP*	3	9.0/9.3	SP*	4	10.5/10.8	SP*	5	13.5/13.8	SP*	6	15.5/15.8	SP*				Abbreviations:		
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5	13.5/13.8	SP*																												
6	15.5/15.8	SP*																												

Boring Designation VB-SJN15-60

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-60		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 3 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 03-26-15 COMPLETED: 03-26-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -46.6 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 93 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-46.6	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, some fine to medium-grained sand-sized shell, trace silt, strong reaction with HCl, 2.5Y 5/2 grayish brown (SP)						
			From El. -49.0 to -49.2 Ft., very shelly sand seam						
			At El. -49.2 Ft., little medium-grained sand-sized shell, 2.5Y 6/2 light brownish gray		1		-49.6		
			At El. -50.1 Ft., little fine to coarse-grained sand-sized shell						
					2		-52.6		
-54.4	7.8		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few silt, few medium-grained sand-sized shell, strong reaction with HCl, 2.5Y 5/1 gray (SP-SM)						
					3		-55.1		
-57.1	10.5		From El. -56.8 to -57.1 Ft., shelly very silty sand seam						
-58.5	11.9		SAND, clayey, mostly fine-grained sand-sized quartz, some clay, weak reaction with HCl, N 5/ gray (SC)						
			From El. -58.3 to -58.5 Ft., shelly very clayey sand seam						
			CLAY, lean, few fine-grained sand-sized quartz, no reaction with HCl, N 4/ dark gray (CL)						
			At El. -60.8 Ft., little fine-grained sand-sized quartz						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																					
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																					
LOCATION COORDINATES X = 588,015 Y = 2,090,244			ELEVATION TOP OF BORING -46.6 Ft.																								
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																		
-65.1	18.5		At El. -62.1 Ft., few fine-grained sand-sized quartz, 5G 4/1 dark greenish gray																								
-66.6	20.0						-66.6																				
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3.0/3.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>6.0/6.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>8.5/8.8</td> <td>SP-SM*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.3	SP*	2	6.0/6.3	SP*	3	8.5/8.8	SP-SM*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell				Abbreviations:		
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1	3.0/3.3	SP*																									
2	6.0/6.3	SP*																									
3	8.5/8.8	SP-SM*																									
1	Percent Visual Shell																										
2	Percent Visual Shell																										
3	Percent Visual Shell																										

Boring Designation VB-SJN15-61

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-61		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> 7		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED 03-26-15 COMPLETED 03-26-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -38.2 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 100 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-38.2	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, some fine to medium-grained sand-sized shell, trace silt, strong reaction with HCl, 2.5Y 6/1 gray (SP)						
			At El. -40.3 Ft., few medium-grained sand-sized shell		1		-41.2		
			At El. -43.7 Ft., little medium-grained sand-sized shell		2		-44.2		
			At El. -46.6 Ft., few medium-grained sand-sized shell		3		-47.2		
			From El. -47.7 to -47.9 Ft., very shelly sand seam		4		-49.2		
			At El. -48.9 Ft., mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, weak reaction with HCl, 2.5Y 5/1 gray		5		-50.2		
			At El. -50.2 Ft., few fine-grained sand-sized shell						
			At El. -50.5 Ft., mostly fine to medium-grained sand-sized quartz, some fine to medium-grained sand-sized shell, strong reaction with HCl, 2.5Y 6/1 gray						
			At El. -51.4 Ft., little fine to medium-grained sand-sized shell						
			From El. -52.4 to -52.7 Ft., very shelly sand seam				-53.2		

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																																										
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																										
LOCATION COORDINATES X = 586,049 Y = 2,090,478			ELEVATION TOP OF BORING -38.2 Ft.																																													
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE																																							
-55.6	17.4		-At El. -53.2 Ft., trace shell, weak reaction with HCl  -At El. -54.2 Ft., mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell		6																																											
					7		-54.2																																									
-58.2	20.0		SAND, silty, mostly fine-grained sand-sized quartz, little silt, little fine to medium-grained sand-sized shell, weak reaction with HCl, 10Y 5/1 greenish gray (SM)				-58.2																																									
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr><td>1</td><td>3.0/3.3</td><td>SP*</td></tr> <tr><td>2</td><td>6.0/6.3</td><td>SP*</td></tr> <tr><td>3</td><td>9.0/9.3</td><td>SP*</td></tr> <tr><td>4</td><td>11.0/11.3</td><td>SP*</td></tr> <tr><td>5</td><td>12.0/12.3</td><td>SP*</td></tr> <tr><td>6</td><td>15.0/15.3</td><td>SP*</td></tr> <tr><td>7</td><td>16.0/16.3</td><td>SP*</td></tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr><td>1</td><td>Percent Visual Shell</td></tr> <tr><td>2</td><td>Percent Carbonate</td></tr> <tr><td>2</td><td>Percent Visual Shell</td></tr> <tr><td>3</td><td>Percent Visual Shell</td></tr> <tr><td>4</td><td>Percent Visual Shell</td></tr> <tr><td>5</td><td>Percent Visual Shell</td></tr> <tr><td>6</td><td>Percent Visual Shell</td></tr> <tr><td>7</td><td>Percent Visual Shell</td></tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.3	SP*	2	6.0/6.3	SP*	3	9.0/9.3	SP*	4	11.0/11.3	SP*	5	12.0/12.3	SP*	6	15.0/15.3	SP*	7	16.0/16.3	SP*	1	Percent Visual Shell	2	Percent Carbonate	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Visual Shell	6	Percent Visual Shell	7	Percent Visual Shell			Abbreviations:		
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Boring Designation VB-SJN15-62

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility			<b>9. SIZE AND TYPE OF BIT</b> See Remarks	
<b>2. BORING DESIGNATION</b> VB-SJN15-62			<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)	<b>HORIZONTAL</b> NAD83
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ			<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER	
<b>4. NAME OF DRILLER</b>			<b>12. TOTAL SAMPLES</b>	<b>DISTURBED</b> 4
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			<b>13. TOTAL NUMBER CORE BOXES</b>	<b>UNDISTURBED (UD)</b> 0
<b>6. THICKNESS OF OVERBURDEN</b> N/A			<b>14. ELEVATION GROUND WATER</b>	
<b>7. DEPTH DRILLED INTO ROCK</b> N/A			<b>15. DATE BORING</b>	<b>STARTED</b> 03-26-15
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.			<b>16. ELEVATION TOP OF BORING</b>	<b>COMPLETED</b> 03-26-15
			<b>17. TOTAL RECOVERY FOR BORING</b> 95 %	
			<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-44.9	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, trace silt, weak reaction with HCl, 2.5Y 6/1 gray (SP)						
					1		-47.9		
					2		-50.9		
			At El. -53.9 Ft., mostly fine to medium-grained sand-sized quartz, little medium-grained sand-sized shell At El. -54.8 Ft., trace shell		3		-53.9		
-56.0	11.1		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, little coarse gravel-sized shell, few silt, strong reaction with HCl, 2.5Y 5/1 gray (SP-SM)		4		-56.9		
			At El. -57.8 Ft., few medium-grained sand-sized shell, weak reaction with HCl						
-59.2	14.3		SILT, inorganic-H, few fine-grained sand-sized quartz, no reaction with HCl,						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																										
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																										
LOCATION COORDINATES X = 585,853 Y = 2,092,273			ELEVATION TOP OF BORING -44.9 Ft.																													
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																							
-63.8	18.9		N 4/ dark gray (MH)																													
-64.9	20.0						-64.9																									
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3.0/3.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>6.0/6.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>9.0/9.3</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>12.0/12.3</td> <td>SP-SM*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> <tr> <td>4</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.3	SP*	2	6.0/6.3	SP*	3	9.0/9.3	SP*	4	12.0/12.3	SP-SM*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell				Abbreviations:		
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-63		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 3 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 03-26-15 COMPLETED: 03-26-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -42.3 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 100 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE	
-42.3	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, few fine to medium-grained sand-sized shell, trace silt, weak reaction with HCl, 2.5Y 6/2 light brownish gray (SP)							
					1			-45.3		
					2			-48.3		
					3			-51.3		
-53.3	11.0		SAND, silty, mostly fine-grained sand-sized quartz, little silt, few medium-grained sand-sized shell, weak reaction with HCl, 2.5Y 5/1 gray (SM) -At El. -54.1 Ft., little sand to gravel-sized shell -At El. -55.3 Ft., some sand to gravel-sized shell -At El. -56.0 Ft., some silt, trace shell, 2.5Y 3/1 very dark gray							

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS															
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88															
LOCATION COORDINATES X = 584,417 Y = 2,091,500			ELEVATION TOP OF BORING -42.3 Ft.																		
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE												
-57.7	15.4		CLAY, lean, some fine-grained sand-sized quartz, no reaction with HCl, 5G 4/1 dark greenish gray (CL)																		
-59.2	16.9		From El. -59.0 to -59.2 Ft., silty sand seam SAND, clayey, mostly fine-grained sand-sized quartz, some clay, no reaction with HCl, 5GY 4/1 dark greenish gray (SC)																		
-62.3	20.0						-62.3														
			NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3.0/3.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>6.0/6.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>9.0/9.3</td> <td>SP*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Carbonate 2 Percent Visual Shell 3 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.3	SP*	2	6.0/6.3	SP*	3	9.0/9.3	SP*				Abbreviations:		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																			
1	3.0/3.3	SP*																			
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<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-64		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> DISTURBED: 4 UNDISTURBED (UD): 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED: 03-26-15 COMPLETED: 03-26-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -46.9 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 90 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-46.9	0.0		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, some fine to medium-grained sand-sized shell, trace silt, strong reaction with HCl, 2.5Y 5/2 grayish brown (SP) From El. -47.3 to -47.4 Ft., silty shelly sand seam At El. -48.3 Ft., little medium-grained sand-sized shell, weak reaction with HCl, 2.5Y 6/2 light brownish gray At El. -48.9 Ft., few medium-grained sand-sized shell						
					1		-48.9		
					2		-50.9		
					3		-52.9		
			At El. -53.1 Ft., mostly fine-grained sand-sized quartz, trace shell, 2.5Y 5/1 gray At El. -53.9 Ft., few medium-grained sand-sized shell At El. -54.1 Ft., 10Y 5/1 greenish gray		4		-53.9		
			At El. -56.6 Ft., little sand to gravel-sized shell From El. -57.6 to -57.9 Ft., shelly very clayey sand seam At El. -57.9 Ft., little fine-grained sand-sized shell At El. -59.0 Ft., some fine to medium-grained sand-sized shell, strong reaction with HCl, N 8/ white From El. -61.1 to -61.4 Ft., shell seam						

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																										
PROJECT St. Johns County Feasibility			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																										
LOCATION COORDINATES X = 585,752 Y = 2,094,801			ELEVATION TOP OF BORING -46.9 Ft.																													
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																							
-64.8	17.9		At El. -62.2 Ft., some fine-grained sand-sized quartz, some sand to gravel-sized shell, little fine gravel-sized limestone, 2.5Y 5/1 gray																													
-66.9	20.0						-66.9																									
			<p>NOTES:</p> <ol style="list-style-type: none"> <li>USACE Jacksonville is the custodian for these original files.</li> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> <li>Laboratory Testing Results</li> </ol> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.0/2.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>4.0/4.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>6.0/6.3</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>7.0/7.3</td> <td>SP*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> <li>Additional Laboratory Testing</li> </ol> <table border="1"> <tbody> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> <tr> <td>4</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.3	SP*	2	4.0/4.3	SP*	3	6.0/6.3	SP*	4	7.0/7.3	SP*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell				Abbreviations:		
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1	Percent Visual Shell																															
2	Percent Visual Shell																															
3	Percent Visual Shell																															
4	Percent Visual Shell																															

Boring Designation VB-SJN15-65

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> St. Johns County Feasibility		<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> VB-SJN15-65		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		
<b>3. DRILLING AGENCY</b> Corps of Engineers - CESAJ		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER		
<b>4. NAME OF DRILLER</b>		<b>12. TOTAL SAMPLES</b> 5		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>13. TOTAL NUMBER CORE BOXES</b> 0		
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>14. ELEVATION GROUND WATER</b>		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b> STARTED 03-26-15 COMPLETED 03-26-15		
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.		<b>16. ELEVATION TOP OF BORING</b> -42.7 Ft.		
		<b>17. TOTAL RECOVERY FOR BORING</b> 100 %		
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b>		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-42.7	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, trace silt, weak reaction with HCl, 2.5Y 6/1 gray (SP)						
					1		-44.7		
					2		-46.7		
					3		-48.7		
			At El. -50.1 Ft., mostly fine to medium-grained sand-sized quartz		4		-50.7		
			At El. -52.0 Ft., mostly fine-grained sand-sized quartz		5		-52.7		
-55.6	12.9		From El. -55.2 to -55.6 Ft., shelly sandy silt seam						
			SILT, inorganic-L, few medium-grained sand-sized shell, few fine-grained sand-sized quartz, weak reaction with HCl, N 5/ gray (ML)						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																					
PROJECT			COORDINATE SYSTEM/DATUM		HORIZONTAL	VERTICAL																					
St. Johns County Feasibility			State Plane, FLE (U.S. Ft.)		NAD83	NAVD88																					
LOCATION COORDINATES			ELEVATION TOP OF BORING																								
X = 583,857 Y = 2,093,404			-42.7 Ft.																								
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																		
-61.6	18.9		From El. -57.7 to -58.2 Ft., no reaction with HCl, slightly sandy shelly silt seam At El. -58.0 Ft., discontinue shell																								
-62.7	20.0		CLAY, lean, few fine-grained sand-sized quartz, no reaction with HCl, N 3/ very dark gray (CL)				-62.7																				
			<p>NOTES:</p> <p>1. USACE Jacksonville is the custodian for these original files.</p> <p>2. Soils are field visually classified in accordance with the Unified Soils Classification System.</p> <p>3. Laboratory Testing Results</p> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.0/2.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>4.0/4.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>6.0/6.3</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>8.0/8.3</td> <td>SP*</td> </tr> <tr> <td>5</td> <td>10.0/10.3</td> <td>SP*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <p>4. Additional Laboratory Testing</p> <p>1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Visual Shell 5 Percent Visual Shell</p>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.3	SP*	2	4.0/4.3	SP*	3	6.0/6.3	SP*	4	8.0/8.3	SP*	5	10.0/10.3	SP*				Abbreviations:		
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