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DRILLING LO	DG (Cont S	Shoot)		INSTALL						SHEET	
		meet		Jacks				1		OF 2	SHEETS
ROJECT St. Johns County,				COORDIN State					NAD83	VERTICAL MLW	
OCATION COORDINA				ELEVATIO				· ·			
X = 578,464 Y =				-43.8		01 0		5			
		SIFICATION	OF MATERIA		REC.	BOX OR	RQD OR UD		REMARK	SS BLOWS/ 1 FT.	I-VALUE
<u>g</u>		Jacksonville al files. field visually with the Uni on System. based on p ory Testing R SAMPLE DEPTH 0.0/1.5 1.5/5.0 5.0/5.8 classificatior	is the custo y classified i ified Soils predicted tide Results LABORA CLASSIFIC SP ML SM	LS odian for in e TORY CATION * *		BOX OR SAMPLE	RORUD		REMARK	S IFOWS	N-VALUE

					E	Borin	g Designation	VB-SJSP06-	10	
DRILLING	LOG	DIVISION South Atlantic	1	NSTAL			istrict		SHEET 1 OF 2 SH	IFFTO
1. PROJECT		South Atlantic				-		Remarks	OF 2 SF	IEE I S
St. Johns (Countv.	FL SPP					SYSTEM/DATUM	HORIZONTAL	VERTICAL	
Borrow Are	-	-			State	e Plar	ne, FLE (U.S. Ft.)	NAD83	MLW	
2. BORING DESIG				11. MA	NUF	асти	RER'S DESIGNATIO			ER
VB-SJSP0		X = 580,682 Y = 2			Alpir	ie 270	0 Vibracore on D/E		IANUAL HAN	
 DRILLING AGE Corps of E 			PR FILE NO.	12. ТО	TAL	SAMP	LES	ISTURBED UN	NDISTURBED) (UD)
4. NAME OF DRIL		3-01040		13 TO	ται ι		ER CORE BOXES	<u> </u>	0	
L. Gaughf							ROUND WATER	N/A		
5. DIRECTION OF		G DEG. FROM BEAF		14. EL	EVAI		SROUND WATER			D
			1	15. DA	TE B	ORINO	3	06-15-06	06-15-0	
6. THICKNESS O	F OVERE	BURDEN N/A	1	16. EL	EVAT	ION T	OP OF BORING	-46.8 Ft.		
7. DEPTH DRILLE			1	17. ТО	TAL I	RECO	VERY FOR BORING	Not Recorded	1	
			1	18. SIC	SNAT	URE A	AND TITLE OF INSPE	ECTOR		
8. TOTAL DEPTH	OF BOR	RING 14.0 Ft.			,					
ELEV. DEPTH	LEGEND	CLASSIFICATION OF MATER	RIALS	REC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE
-46.8 0.0	$+ \cdot \cdot +$	SAND, poorly-graded, mostly fine	e-grained				-46.8			╎╴╏
F		sand-sized quartz, 10YR 6/1 gray								
-										
È										
Ł				NR	1			Vibracore		
F	••••				1			VIDIACOLE		
Ē										
F	$ \cdots $									
							500			
-50.8 4.0		SAND, silty, mostly fine-grained s	and-sized				-50.8			┼ - [
F	┃┃┃	quartz, little silt, trace medium-gra	ained							
<u> </u>		sand-sized shell, 10Y 4/1 dark gr (SM)	eenisn gray							
E E					2					
Ł	│ <u>│</u> <u>│</u> <u>│</u> <u>│</u> <u>│</u>				-					
Ł	_ <u> </u> ‡ <u> </u> ‡ <u> </u>									
F	_ <u> </u> <u> </u> <u> </u>									
-54.3 7.5						1	-54.3			
		SAND, poorly-graded with silt, me	ostly							╎╏
F		fine-grained sand-sized quartz, tr medium-grained sand-sized shell	ace		3					
Ł	[:-]]	10Y 5/1 greenish gray (SP-SM)	3		5					
-55.8 9.0	╶┨╍╎╽╢	SAND, silty, mostly fine-grained s	sand-sized				-55.8			┼╴╏
F	 	quartz, little sand to gravel-sized	shell up to							
È.	_ <u> </u> <u> </u> <u> </u>	1/2", little silt, 5GY 5/1 greenish g	ray (SM)		4					
Ę	_ <u> </u> ‡ <u> </u> ‡				-					
-57.8 11.0							-57.8			
	─ <u> </u>	SAND, silty, mostly sand to grave shell up to 1', some fine-grained s								
F	 <u> </u> <u> </u> <u> </u> <u> </u>	quartz, little silt, 10Y 4/1 dark gre	enish gray							
F	 <u> </u> <u> </u> <u> </u> <u> </u>	(SM)								
Ł	 									
⊢	_ <u> </u> <u> </u> <u> </u>									
F	┃┆┼┆╎┃									
-60.8 14.0							-60.8			
Ł		NOTES:					Abbreviations:			
F		-					NR = Not Red	corded.		
SAJ FORM 18	336					-	-	(Continued)		

COORDINATE SYSTEM/DATUM HORIZONTAL VERTICAL St. Johns County, FL SPP State Plane, FLE (U.S. Ft.) NAD83 MLW COCATION COORDINATES ELEVATION TOP OF BORING -46.8 Ft. -46.8 Ft.	DR	LLING	LOC	G (Cont. Sheet)		Jackso		Distr	ict		SHEET 2 OF 2 S	
CATION COORDINATES X = 580,682 Y = 2,049,604 ELEVATION TOP OF BORING -46.8 Ft. ELEV. DEPTH Deptical CLASSIFICATION OF MATERIALS Rec. Rec.<	ROJEC	т								UM HORIZONTAL		
X = 580,682 Y = 2,049,604 -46.8 Ft. ELEV. DEPTH Quadratic Quadratic Quadration CLASSIFICATION OF MATERIALS Ref.	St. J	ohns Coun	ty, FL	SPP		State I	Plane,	FLE	(U.S.	. Ft.) NAD83	MLW	
ELEV. DEPTH Ogg CLASSIFICATION OF MATERIALS PCC.								OFE	BORIN	G		
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. Elevation based on predicted tide 4. Laboratory Testing Results SAMPLE LABORATORY ID 1 0.0/4.0 SP* 2 4.0/7.0 3. 7.5/9.0 SP-SM* 4 9.0/11.0 SM* *Lab visual classification based on gradation	X = 5	580,682		,049,604		-46.8	-t.					
these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Elevation based on predicted tide 4. Laboratory Testing Results SAMPLE SAMPLE LABORATORY ID DEPTH CLASSIFICATION 1 0.0/4.0 SP* 2 4.0/7.0 3 7.5/9.0 SP-SM* 4 9.0/11.0 *Lab visual classification based on gradation	ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MAT	ERIAI	LS	RÉC.	BOX OF SAMPLE	ROD OR UD	REMAR	RS BLOWS	N-VALUI
accordance with the Unified Soils Classification System. 3. Elevation based on predicted tide 4. Laboratory Testing Results SAMPLE SAMPLE ID DEPTH CLASSIFICATION 1 0.0/4.0 SP* 2 4.0/7.0 3 7.5/9.0 3 7.5/9.0 4 9.0/11.0 SM* *Lab visual classification based on gradation				these original files.								
4. Laboratory Testing Results SAMPLE SAMPLE LABORATORY ID DEPTH CLASSIFICATION 1 0.0/4.0 SP* 2 4.0/7.0 SM* 3 7.5/9.0 SP-SM* 4 9.0/11.0 SM* *Lab visual classification based on gradation				accordance with the Unified So Classification System.	oils							
SAMPLE SAMPLE LABORATORY ID DEPTH CLASSIFICATION 1 0.0/4.0 SP* 2 4.0/7.0 SM* 3 7.5/9.0 SP-SM* 4 9.0/11.0 SM* *Lab visual classification based on gradation					d tide	9						
1 0.0/4.0 SP* 2 4.0/7.0 SM* 3 7.5/9.0 SP-SM* 4 9.0/11.0 SM* *Lab visual classification based on gradation				SAMPLE SAMPLE LAB								
3 7.5/9.0 SP-SM* 4 9.0/11.0 SM* *Lab visual classification based on gradation Image: Second Se				1 0.0/4.0	SP*	·						
Lab visual classification based on gradation curve. No Atterberg limits.				3 7.5/9.0 5	SP-SI	M						
				*Lab visual classification based curve. No Atterberg limits.	l on g	radation						

						E	Borin	g Designation	VB-SJSP06-	11		_
DRILLING	LOG	DIVISION			INSTAL					SHEET 1		
1. PROJECT		South	h Atlantic					istrict E OF BIT See	Demerica	OF 1 SH	IEETS	-
St. Johns C	ountv	FI SPP						SYSTEM/DATUM	Remarks	VERTICAL		-
Borrow Are								ne, FLE (U.S. Ft.)		MLW		
2. BORING DESIG			OCATION COO	RDINATES	11. M			RER'S DESIGNATIO			ER	
VB-SJSP06	-			Y = 2,049,578		Alpir	ne 27	0 Vibracore on D/		IANUAL HAM		_
3. DRILLING AGE			co	ONTRACTOR FILE NO.	12. TO	TAL	SAMP	LES	i) (UD)	'
Corps of Er 4. NAME OF DRILI		S-CESAJ	i		12 70			ER CORE BOXES	<u>1</u> 0	0		-
L. Gaughf									-			-
5. DIRECTION OF	BORING	;	DEG. FROM VERTICAL	BEARING	14. EL	EVAT		ROUND WATER	N/A			_
VERTICAL			VERTICAL		15. D/	ATE B	ORING	3	STARTED 06-15-06	COMPLETI		
5. THICKNESS OF	OVEDB		N/A	i	16 FI	FVAT		OP OF BORING	-44.6 Ft.	0010	00	
								VERY FOR BORING		4		-
7. DEPTH DRILLEI	D INTO I	ROCK N	I/A					AND TITLE OF INSP		A		-
B. TOTAL DEPTH	OF BOR	ING 5.0	Ft.			,						
ELEV. DEPTH	LEGEND	CL/	ASSIFICATION	OF MATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE	
	$\uparrow \uparrow$					1	1					1
-44.6 0.0		SAND, por	orly-graded, m	ostly fine to	_	-		-44.6				+
F		medium-gi	rained sand-si	ized quartz, trace								F
		10YR 6/1	rained sand-si gray (SP)	zeu snell,								F
Ę		·										F
-46.6 2.0	l∷l											E
E				nostly fine-grained R 7/1 light gray (SP)	NR	1			Vibracore			E
F			,	· · · · · · · · · · · · · · · · · · ·		'			VIDIACOLE			-
F												F
Ē												F
-												F
<u>E</u>												F
-49.6 5.0					_			-49.6				-
F		NOTES:						Abbreviations: NR = Not Re	corded			F
-		1. USACE these origi		is the custodian for								F
F		2 Soils a	re field visually	v classified in								-
Ē		accordanc	e with the Unition System.	fied Soils								F
Ē		3. Elevatio	on based on p	redicted tide								F
F		4. Laborat	tory Testing R	esults		1	1					F
F		SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION								-
F		1	0.0/5.0	 SP*	-	1	1					F
F		I	0.0/5.0	or		1						F
F			al classification Atterberg limi	n based on gradation its.		1						F
F												F
È.						1						F
È						1						F
ŀ												┢
F						1						F
Ę						1						þ
F						1						F
											1	- E
E												┢

			E	Borin	ng Designation	VB-SJSP06-	12	
DRILLING LOG	DIVISION	INSTAL					SHEET 1	
1. PROJECT	South Atlantic				District	Remarks	OF 1 SH	IEETS
St. Johns County, I					See System/Datum	HORIZONTAL	VERTICAL	
Borrow Area					ne, FLE (U.S. Ft.)	1	MLW	
2. BORING DESIGNATION	LOCATION COORDINATES				RER'S DESIGNATIO			R
VB-SJSP06-12	X = 592,152 Y = 2,055,035		Alpir	ne 27	0 Vibracore on D/E		IANUAL HAN	
3. DRILLING AGENCY	CONTRACTOR FILE NO.	12. TO		SAMP	LES	i) (UD)
Corps of Engineers 4. NAME OF DRILLER	S - CESAJ					2	0	
L. Gaughf					BER CORE BOXES	0		
5. DIRECTION OF BORING	DEG. FROM BEARING	14. EL	EVAT		GROUND WATER	N/A		
VERTICAL	VERTICAL	15. DA	TE B	ORING	G	STARTED 06-15-06	COMPLETE	
6. THICKNESS OF OVERB	urden N/A	14 EI			OP OF BORING	-48.1 Ft.	00-10-0	.0
0. THICKNESS OF OVERB					VERY FOR BORING	Not Recorded	1	
7. DEPTH DRILLED INTO F	аоск N/A				AND TITLE OF INSPE		1	
8. TOTAL DEPTH OF BORI	NG 6.0 Ft.							
ELEV. DEPTH	CLASSIFICATION OF MATERIALS	RÉC.	BOX OR SAMPLE	ROD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE
							-	-
-48.1 0.0	SAND, poorly-graded with silt, mostly	_		<u> </u>	-48.1			
	fine-grained sand-sized quartz, few silt, trace							
	medium-grained sand-sized shell, 10Y 4/1 dark greenish gray (SP-SM)		1					
	Tor 4/1 dark greenish gray (Sr -Sivi)	NR	'			Vibracore		
F .' .'								
-50.5 - 2.4				1	-50.6			
	SAND, silty, low plasticity, mostly fine-grained sand-sized quartz, some silt,			1				
	trace shell, 5G 4/1 dark greenish gray (SM)							
F IIII								
		NR	2			Vibracore		
-54.1 6.0					-54.1			
	NOTES				Abbreviations:			
	NOTES:				NR = Not Red	corded.		
	1. USACE Jacksonville is the custodian for							
	these original files.							
	2. Soils are field visually classified in accordance with the Unified Soils							
	Classification System.							
F	3. Elevation based on predicted tide							
	4. Laboratory Testing Results							
	SAMPLE SAMPLE LABORATORY							
	ID DEPTH CLASSIFICATION	.						
F I I	1 0.0/2.0 SP*							
	2 2.5/6.0 SM*							
	*Lab visual classification based on gradation							
	curve. No Atterberg limits.							
F								
F								
AJ FORM 1836								L

							E	Borin	ng Designation	VB-SJSP06-	13		
DRILLIN	GIO	G	DIVISION			INSTA					SHEET 1		1
1. PROJECT		-	South	n Atlantic					District	<u> </u>	OF 1 SH	IEETS	4
	- C		000						E OF BIT See	Remarks	VERTICAL		-
St. John Borrow	-	у, FL	. 588			10. 0			ne, FLE (U.S. Ft.)		MLW		
2. BORING DE		ON		OCATION CO	ORDINATES	11. N			RER'S DESIGNATIO			- P	-
VB-SJS	P06-13			X = 578,71	0 Y = 2,061,525		Alpi	ne 27	0 Vibracore on D/		ANUAL HAN		
3. DRILLING A				c	ONTRACTOR FILE NO.	12. Т	ΟΤΑΙ	SAMP		i	NDISTURBED) (UD)	
Corps of 4. NAME OF DI		ers -	CESAJ	1						1	0		_
4. NAME OF DI L. Gauq						13. T	OTAL	NUME	SER CORE BOXES	0			
5. DIRECTION		NG		DEG. FROM	BEARING	14. E	LEVA		GROUND WATER	N/A			
				VERTICAL		15. D	ΑΤΕ Β	ORINO	G	STARTED	COMPLETE		
					1					06-15-06	06-15-0)6	-
6. THICKNESS	OF OVER	RBUR	2DEN	N/A					FOP OF BORING	-41.8 Ft.			_
7. DEPTH DRIL	LED INT	O RO	ск N	I/A					VERY FOR BORING		b		
3. TOTAL DEP	TH OF BO	RING	g 4.0	Ft.		-18. S	IGNAT	URE /	AND TITLE OF INSP	PECTOR			
ELEV. DEPT	H. EGEND		CL#	ASSIFICATION	I OF MATERIALS		BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE	1
		+					- mov	╞			ш	z	-
-41.8 0.0					en e atha first ann a' th			<u> </u>	-41.8				
Ŀ	· · · ·				mostly fine-grained 'R 6/1 gray (SP)								F
-					····; 9, (-··)								F
F													F
Ę		:											È
-						NR	1			Vibracore			-
F		·											F
F		.											F
È		•											È
-45.8 4.0									-45.8				F
E			OTES:						Abbreviations:				E
F									NR = Not Re	ecorded.			F
Ē			. USACE nese origi		e is the custodian for								F
		a	ccordanc	re field visual e with the Ur ion System.	lly classified in nified Soils								
					predicted tide								F
F				tory Testing									F
F													F
ŀ		SA	AMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION								ŀ
F												1	F
Ļ			1	0.0/4.0	SP*							1	ŧ
Ŀ		*L	_ab visua	l classificatio	on based on gradation	n						1	E
ŀ		CL	urve. No	Atterberg lin	nits.								F
F												1	F
F												1	F
E													F
F													F
F												1	F
Ŀ													E
F													ŀ
F												1	F
F												1	F
									•				1
Ł													t

					ng Designation	VB-SJSP06-	14	
DRILLING LOG	DIVISION	INSTAL			District		SHEET 1 OF 2 SH	
1. PROJECT	South Atlantic					Remarks	1 ^{0F} 2 SH	12213
St. Johns County,	FL SPP				E SYSTEM/DATUM	HORIZONTAL	VERTICAL	
Borrow Area			State	e Plar	ne, FLE (U.S. Ft.)	NAD83	MLW	
2. BORING DESIGNATION		11. MA	ANUF	ACTU	RER'S DESIGNATION			
VB-SJSP06-14	X = 579,511 $Y = 2,067,291$		Alpir	1e 270	0 Vibracore on D/B		IANUAL HAN	
3. DRILLING AGENCY Corps of Enginee	CONTRACTOR FILE NO.	12. ТО	TAL	SAMP	LES		NDISTURBED) (UD)
4. NAME OF DRILLER		13 TC			SER CORE BOXES	0	0	
L. Gaughf				-	GROUND WATER	N/A		
5. DIRECTION OF BORIN	G DEG. FROM BEARING VERTICAL	14. 22				STARTED		D
		15. DA	TE B	ORING	3	06-15-06	06-15-0	
6. THICKNESS OF OVER	BURDEN N/A	16. EL	EVAT	TION T	FOP OF BORING	-46.6 Ft.		
7. DEPTH DRILLED INTO	ROCK N/A	17. TC	TAL	RECO	VERY FOR BORING	Not Recorded	1	
		18. SI	GNAT	URE /	AND TITLE OF INSPE	CTOR		
8. TOTAL DEPTH OF BOR	RING 10.0 Ft.		,					
ELEV. DEPTH	CLASSIFICATION OF MATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE
					10.0			
-46.6 0.0	SAND, poorly-graded, mostly fine-grained	+-	├─	\parallel	-46.6			
F I i i	sand-sized quartz, few sand to gravel-sized shell up to 3/8", trace medium-grained			l				
	sand-sized shell, 10YR 6/1 gray (SP)			Í				
		NR	1	Í		Vibracore		
				ſ				
-49.1 2.5					-49.1			
E Ititi	SAND, silty, mostly fine-grained sand-sized quartz, little silt, 10Y 4/1 dark greenish gray			Í				
F IIIII	(SM)			Í				
F Ititi				Í				
				ſ				
				ſ				
				Í				
┝╴╹╎┼┼┼	At El52.1 Ft., some fine-grained			Í				
	sand-sized quartz, some sand to			ſ				
	gravel-sized shell up to 3/4", little silt, 5GY 4/1 dark greenish gray	NR	2	ſ		Vibracore		
E Ititi	At El54.1 Ft., medium plasticity, some fine-grained sand-sized quartz, some silt,							
┍──┃┆┼┆┼┃	little sand to gravel-sized shell up to 3/8",							
F Hitil	10GY 4/1 dark greenish gray							
-56.6 10.0				Í	-56.6			
		+	<u> </u>					
<u> </u>	NOTES:				Abbreviations: NR = Not Rec	orded.		
	1. USACE Jacksonville is the custodian for							
F	these original files.							
F	2. Soils are field visually classified in			Í				
[] [accordance with the Unified Soils Classification System.							
	3. Elevation based on predicted tide							
F I I	4. Laboratory Testing Results							
F	SAMPLE SAMPLE LABORATORY							
F []		1			1			1
- F I I	ID DEPTH CLASSIFICATION							

PROJECT St. Johns County, FL SPP COORDINATE SYSTEMOATUM State Plane, FLE (U.S. Ft.) HORIZONTAL NAD83 VERTICAL MLW LOCATION COORDINATES X = 579,511 Y = 2,067,291 -46.6 Ft. -46.6 Ft. ELEV. DEPTH Understand Understand Understand Y = 2,067,291 -46.6 Ft. -46.6 Ft. ELEV. DEPTH Understand Understand Understand Y = 2,067,291 -46.6 Ft. -46.6 Ft. -46.6 Ft. ELEV. DEPTH Understand Understand Understand Y = 2,067,291 -1 0.0/2,5 SP*.M* -46.6 Ft. *** 1 0.0/2,5 SP*.M* Image: Composition of the standard of the standar	DRILLING LOG (Cont. Sheet)	INSTALLAT				_			SHEET		ETC	1
St. Johns County, FL SPP State Plane, FLE (U.S. Ft.) NAD83 MLW LOCATION COORDINATES X = 579,511 Y = 2,067,291 ELEVATION TOP OF BORING -46.6 Ft. -46.6 Ft. ELEV. DEPTH Dag U Description U CLASSIFICATION OF MATERIALS 2,5/10.0 RED SP-SM* RED U RED U RED U REMARKS Description U I 0.00/2.5 SP** 2 2,5/10.0 SP-SM* I <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>!</td><td></td><td></td><td>SHE</td><td>EIS</td><td>4</td></td<>							!			SHE	EIS	4
LOCATION COORDINATES ELEVATION TOP OF BORING X = 579.511 Y = 2,067,291 -46.6 Ft. ELEV. DEPTH B 3 2 CLASSIFICATION OF MATERIALS REC. B 3 2 ROD 00 REMARKS B 3 2 B 2 B 2,5/10.0 SP** SP-SM* * 1 0.0/2.5 SP* 2 2.5/10.0 SP-SM* I												
X = 579,511 Y = 2.067,291 -46.6 FL ELEV. DEPTH 9 9 9 1 CLASSIFICATION OF MATERIALS R [*] C. 60/2 8/2 ROB REMARKS 9/2 9/2 1 Image: 1 0.0/2.5 SP* 2 2.5/10.0 SP-SM* 1 1 0.0/2.5 SP* 2 1							I INADOS	!				
ELEV. DEPTH g g g g g g g g g CLASSIFICATION OF MATERIALS R [*] ₂ C. R [*] ₂ D R [*] ₂ D					ORIN	G						
1 0.0/2.5 SP* 2 2.5/10.0 SP-SM* *Lab visual classification based on gradation curve. No Atterberg limits. Image: Comparison of the second				DX OR	ROD OR UD		REMARKS	;	-ows/	1 FT.	VALUE	
	1 0.0/2.5 SF 2 2.5/10.0 SP-5 *Lab visual classification based on		RĚĊ.	BOX OF					BLOWS	161.	N-NALU	

						g Designation VB-SJSP06-15	
DRILLING	LOG	DIVISION	INSTAL			SHEET 1	
1. PROJECT		South Atlantic				istrict OF 1 S	HEETS
	County					E OF BIT See Remarks	1
St. Johns Borrow Ar	-					ne, FLE (U.S. Ft.) NAD83 MLW	-
2. BORING DESI		LOCATION COORDINATES	11. M			RER'S DESIGNATION OF DRILL AUTO HAMN	IFR
VB-SJSP(06-15	X = 581,618 Y = 2,071,004		Alpir	ne 27(0 Vibracore on D/B Snell MANUAL HA	
3. DRILLING AGE	ENCY	CONTRACTOR FILE NO.	12. TO		SAMP		D (UD)
Corps of E 4. NAME OF DRI	0	s - CESAJ				2 0	
L. Gaughf			13. TO	DTAL	NUMB	ER CORE BOXES ()	
5. DIRECTION O			14. EL	EVA		ROUND WATER N/A	
		VERTICAL	15. D	АТЕ В	ORING	STARTED COMPLET	
						06-15-06 06-15	-06
6. THICKNESS O	OF OVERB	urden N/A				OP OF BORING -41.7 Ft.	
7. DEPTH DRILLI	ED INTO I	ROCK N/A				VERY FOR BORING Not Recorded	
B. TOTAL DEPTH		ING 7.0 Ft.	18. SI	GNAT	URE A	AND TITLE OF INSPECTOR	
	<u> </u>			, ଝ୴		. s	E
ELEV. DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	RÉC.	BOX OR SAMPLE	ROD OR UD	REMARKS	N-VALUE
-41.7 0.0						-41.7	
	<u></u>	SAND, poorly-graded, mostly fine-grained				-41.7	
F		sand-sized quartz, trace medium-grained sand-sized shell, 10YR 6/1 gray (SP)		1			
<u> </u>		sand-sized shell, for to rigidy (SF)					
Ę							
<u>L</u>							
ŀ							
F			NR	1		Vibracore	
F	••••						
Ł							
-							
F							
L							
-47.2 5.5						-47.2	
-		SAND, poorly-graded with silt, mostly fine to medium-grained sand-sized quartz, few sand					
F		to gravel-sized shell up to 3/4", few silt,	NR	2		Vibracore	
107 - 70		10ŸR 5/1 gray (SP-SM)		1		49.7	
-48.7 7.0	╋╧		-	┼──		-48.7	+
F		NOTES:		1		Abbreviations: NR = Not Recorded.	
F		1. USACE Jacksonville is the custodian for these original files.					
Ę		C C		1			
F		2. Soils are field visually classified in accordance with the Unified Soils					
F		Classification System.		1			
F		3. Elevation based on predicted tide					
F		4. Laboratory Testing Results					
F		SAMPLE SAMPLE LABORATORY		1			
Ę		ID DEPTH CLASSIFICATION					
E-		1 0.0/5.0 SP*	-	1			
F		2 5.5/7.0 SP*		1			
F				1			
Ł		*Lab visual classification based on gradation curve. No Atterberg limits.					
F				1			
F				1			
Ę							
	836			1	I		

SAJ FORM 1836 JUN 02

				E	Borin	g Designation	VB-SJSP06	16	
DRILLING LO	G	DIVISION	INSTA					SHEET 1	
1. PROJECT		South Atlantic			-	listrict		OF 1 SH	IEETS
St. Johns Coun		9DD				E OF BIT See	Remarks	VERTICAL	
Borrow Area	iy, fl	. SFF				ne, FLE (U.S. Ft.)		MLW	
2. BORING DESIGNATI	ION	LOCATION COORDINATES	11. M			RER'S DESIGNATIO			R
VB-SJSP06-16		X = 594,464 Y = 1,974,525		Alpiı	ne 27	0 Vibracore on D/E		ANUAL HAN	
3. DRILLING AGENCY		CONTRACTOR FILE NO.	12. T	OTAL	SAMP		i	NDISTURBED) (UD)
Corps of Engine 4. NAME OF DRILLER	eers -	CESAJ				1	3	0	
L. Gaughf			13. T	OTAL	NUMB	ER CORE BOXES	0		
5. DIRECTION OF BOR	ING	DEG. FROM BEARING	14. E	LEVA		ROUND WATER	N/A		
VERTICAL		VERTICAL	15. D	ATE B	ORING	3	STARTED	COMPLETE	
		<u> </u>					07-27-06	07-27-0	90
6. THICKNESS OF OVE	RBUR	rden N/A	L			OP OF BORING	-56.8 Ft.		
7. DEPTH DRILLED IN	TO RO	ск N/A				VERY FOR BORING	Not Recorde	d	
8. TOTAL DEPTH OF B	ORING	G 6.9 Ft.	18. 5	GNAI	URE A	AND TITLE OF INSPI	ECTOR		
ELEV. DEPTH		CLASSIFICATION OF MATERIALS		BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE
	+-		+	1	-				2
-56.8 0.0		AND, silty, medium plasticity, mostly				-56.8			
Ę [!∤!	fir	ne-grained sand-sized quartz, some silt,	NR	1			Vibracore		
-57.8 1.0		ew sand to gravel-sized shell up to 3/8", Y 4/1 dark gray (SM)		Ĺ	1	-57.8			
-	s s	ILT, inorganic-L, high plasticity, some sand	r/						
F	tc	gravel-sized shell up to 3/8", little							
		ne-grained sand-sized quartz, 5GY 4/1 darl reenish gray (ML)	ĸ						
E	J 3			2					
- III									
F									
-60.8 4.0					4	-60.8			
		AND, poorly-graded with silt, some fine to oarse gravel-sized limestone up to 3/4",							
E ii	l so	ome fine to medium-grained sand-sized							
		uartz, few silt, 10Y 6/1 greenish gray SP-SM)		3					
	† 1								
-63.7 - 6.9	‡∦				1	-63.7			
	<u> </u>			1					
F I		OTES:				Abbreviations: NR = Not Red	corded.		
		. USACE Jacksonville is the custodian for nese original files.							
F I	2	. Soils are field visually classified in							
F I	a	ccordance with the Unified Soils							
t l		lassification System.							
	3.	. Elevation based on predicted tide			1				
F	4	. Laboratory Testing Results							
F I	s	AMPLE SAMPLE LABORATORY							
E I		ID DEPTH CLASSIFICATION							
F 1		1 0.0/1.0 SM*	-						
F I	1	2 1.0/4.0 SM*							
Ľ ∣		3 4.0/6.5 SM*							
E I		_ab visual classification based on gradation							
	CI	urve. No Atterberg limits.							
F I	1								
E I	1				1				
				1		1			

									E	Borin	g Designation	VB-SJSP06-	17	
DRILLING	LOC		/ISION	A tile :: 4 -							istrict		SHEET 1 OF 1 S	
1. PROJECT			South	Atlantic			_				istrict E OF BIT See	Remarks	OF 1 S	HEETS
St. Johns C	County	FL SP	P								SYSTEM/DATUM	HORIZONTAL	VERTICAL	
Borrow Are	-										ne, FLE (U.S. Ft.)		MLW	-
2. BORING DESIG		N	LO	CATION	COORDI	NATES	11.				RER'S DESIGNATIO			ER
VB-SJSP06	6-17			X = 594,	554	Y = 1,971,477			Alpir	ne 27	0 Vibracore on D/E	3 Snell 🛛 🗖 🛚	IANUAL HA	MMER
3. DRILLING AGE					CONT	RACTOR FILE NO).	то	TAL	SAMP			NDISTURBE	D (UD)
Corps of Er 4. NAME OF DRILI		rs - CE	SAJ		1						1	1	0	
L. Gaughf	LER						13.	. то	TAL	NUMB	ER CORE BOXES	0		
5. DIRECTION OF	BORIN	G	1	DEG. FRO	м	BEARING	- 14.	EL	EVAT		ROUND WATER	N/A		
VERTICAL				VERTICAL	-		15.	DA	TE B	ORING	3	STARTED	COMPLET	
			!			!	_					07-27-06	07-27-	06
6. THICKNESS OF	OVER	BURDEN	N N	I/A			16.	. EL	EVAT		OP OF BORING	-56.1 Ft.		
7. DEPTH DRILLEI	d into	ROCK	N/A	4							VERY FOR BORING	Not Recorded	t	
8. TOTAL DEPTH		NG	6.3 F	t			18.	SIC	SNAT	URE A	AND TITLE OF INSP	ECTOR		
	<u> </u>		0.01				<u> </u>		,	1				
ELEV. DEPTH	LEGEND		CLAS	SIFICATI	ON OF I	MATERIALS		REC.	BOX OR SAMPLE	ROD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE
	┽╧┥								_0	-			-	2
-56.1 0.0	_	<u> </u>	in		o di:	plasticity, little				<u> </u>	-56.1			
E						plasticity, little								
-		fine-g	rained	sand-siz		artz, 5GY 4/1 da	ırk							
-		green	hish gra	ay (ML)										
È														
-														
Ē									1					
E														
ŀ								NR				Vibracore		
Ę														
F														
E														
-										-				
Ę						sticity, little								
<u> </u>				sand-siz		artz, few mediur	n							
-62.4 6.3				rk greenis			Å				-62.4			
Ē		·			0,		-1				Abbreviations:			
F		NOTE	=S:								NR = Not Ree	corded.		
E					ville is t	he custodian fo	r							
⊢		these	origina	al files.										
F						assified in								
F				with the on Systen		d Soils								
E						licted tide								
				ory Testin	•									
		SAMP												
Ł		ID 1				ASSIFICATIO	N 							
L		1		0.0/5.0	U	SM*								
⊨ ⊢				alaasifiaa	tion ho	sed on gradation	n							
						Sed on gradalit								
				Atterberg		iscu on gradaik								

								g Designation	VB-SJSP06-	18	
DRILLING	LOG	DIVISION						intrint		SHEET 1	
. PROJECT	-	South Atlantic		_				istrict E OF BIT See	Remarks	OF 2 SH	ICEIS
St. Johns (County.	FL SPP						SYSTEM/DATUM	HORIZONTAL	VERTICAL	
Borrow Are					:	State	e Plar	ne, FLE (U.S. Ft.)	NAD83	MLW	
BORING DESIG		LOCATION	COORDINATES	11.				RER'S DESIGNATIO			ER
VB-SJSP0		X = 597	7,477 Y = 1,971,908			Alpin	e 27	0 Vibracore on D/I		ANUAL HAN	
DRILLING AGE			CONTRACTOR FILE NO). 12.	то	TAL	SAMP	LES	i	IDISTURBED) (UD)
Corps of E NAME OF DRIL		S-CESAJ	i	12	TO	TAL .		ER CORE BOXES	0	0	
L. Gaughf									-		
DIRECTION OF		DEG. FRO	OM BEARING	14.	ELE	EVAT	ION G	ROUND WATER	N/A STARTED		
VERTICAL			-	15.	DA.	TE BO	ORING	3	07-27-06	07-27-(
. THICKNESS OF	F OVERB	URDEN N/A		16.	ELE	EVAT	ION T	OP OF BORING	-57.5 Ft.		
								VERY FOR BORING	Not Recorded	1	
. DEPTH DRILLE	DINTO	rock N/A						AND TITLE OF INSP			
. TOTAL DEPTH	OF BOR	ING 10.8 Ft.				,					
ELEV. DEPTH	EGEND	CLASSIFICAT	ION OF MATERIALS	R	ес.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE
	┽╧┼					_0,					2
-57.5 0.0	┨╖╷	SAND silty low pla	sticity, some fine-grain					-57.5			
Ę		sand-sized quartz, s	some silt, few sand to								
Ł		gravel-sized shell up greenish gray (SM)	p to 3/8", 10Y 4/1 dark	N	١R	1			Vibracore		
-59.0 1.5								-59.0			
F			nedium plasticity, little ized quartz, few sand to								
-		gravel-sized shell up	p to 3/8", 5GY 4/1 dark								
Ę		greenish gray (ML)									
F						2					
-						2					
Ē					١R				Vibracore		
Ē											
È.											
E											
-63.3 5.8		SAND poorly-grade	ed, mostly fine-grained					-63.5			
F		sand-sized quartz, I	ittle sand to gravel-size	d							-
Ē		limestone up to 1/2"	', 10YR 5/1 gray (SP)								
-											
Ł											
-											
F				N	١R				Vibracore		
E E											
È											
-											
F						6					
-68.3 [10.8					\downarrow	3		-68.3			
F		NOTES:						Abbreviations:			
Ę		1 LISACE lookes	willo is the quetodies for	,				NR = Not Re	corded.		
-		these original files.	wille is the custodian fo	"							
Ę		2. Soils are field vis	sually classified in								
		accordance with the Classification Syste	e Unified Soils								
F		3. Elevation based	on predicted tide								
Ē		4. Laboratory Testi	ng Results								
									(Continued)		
AJ FORM 18	336								(Continued)		

DR	ILLING	LOC	G (Cont. Sheet)	INSTALLA Jackso				0			SHEET OF 2		FTS	1
PROJEC				COORDIN				UM	HORIZONTAL	VE	RTICAL	5. IE		1
	lohns Coun	tv. Fl	SPP	State					NAD83		MLW			
	ON COORDI			ELEVATIO					10.200	<u>.</u>				
	597,477			-57.5		0		•						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIA		RÉC.	BOX OR SAMPLE	RQD OR UD		REMARK	s	BLOWS/		N-VALUE	
			SAMPLE SAMPLE LABOR/ ID DEPTH CLASSIFI 1 0.0/1.5 SM 2 1.5/5.0 SM 3 6.0/16.0 SP-S *Lab visual classification based on curve. No Atterberg limits.	CATION 1* 1* 5M*		3								

				E	Borir	ng Designation	VB-SJSP06-	19	
DRILLING	LOG	DIVISION	INSTA			Notriot		SHEET 1	
1. PROJECT		South Atlantic	-			District	Remarks	OF 1 SH	TEEIS
St. Johns Co	ountv					E SYSTEM/DATUM	HORIZONTAL	VERTICAL	
Borrow Area	-					ne, FLE (U.S. Ft.)		MLW	
2. BORING DESIGN		LOCATION COORDINATES	11. M			IRER'S DESIGNATION			ER
VB-SJSP06	-19	X = 616,617 Y = 1,954,212		Alpiı	ne 27	0 Vibracore on D/E		ANUAL HAN	
3. DRILLING AGEN		CONTRACTOR FILE NO	12. T	OTAL	SAMP		i	NDISTURBE) (UD)
Corps of Eng 4. NAME OF DRILL		s - CESAJ	_			1	2	0	
L. Gaughf	LK		13. T	OTAL	NUME	BER CORE BOXES	0		
5. DIRECTION OF E	BORING	DEG. FROM BEARING	-14. E	LEVA		GROUND WATER	N/A		
		VERTICAL	15. D	ATE B	ORIN	G	STARTED	COMPLETI	
			-				06-16-06	06-16-	06
6. THICKNESS OF	OVERB	urden N/A				TOP OF BORING	-54.2 Ft.		
7. DEPTH DRILLED	ΙΝΤΟ Ι	ROCK N/A				VERY FOR BORING	Not Recorded	d	
8. TOTAL DEPTH O	F BOR	ING 6.0 Ft.	-18. S	IGNAI	URE	AND TITLE OF INSPE	LCTOR		
ELEV. DEPTH	EGEND			BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	TUE
ELEV. DEPTH	LEGI	CLASSIFICATION OF MATERIALS	RĚC	BOX	UR US		REMARKS	BLO	N-VALUE
-54.2 0.0						-54.2			
	\cdots	SAND, poorly-graded, mostly fine-grained sand-sized quartz, 10YR 6/2 light brownish							
F		gray (SP)							
E		/	NR	1	1		Vibracore		
F									
-56.2 2.0		SAND, silty, mostly fine-grained sand-sized			-	-56.2			
Ē		quartz, little silt, few sand to gravel-sized							
<u> </u>	┃+┆+┆╽	shell up to 3/8", 5GY 5/1 greenish gray (SI	VI)						
-	 †∔†∔								
F	┃↓↑↓↑┃								
-	 + <u> </u> + <u> </u>		NR	2			Vibracore		
È	▋┇┥┇┥╏								
E I	┃+ェ+ェ┃								
-									
-60.2 6.0				_	_	-60.2			
-		NOTES:				Abbreviations:			
Ŀ		1. USACE Jacksonville is the custodian fo	.			NR = Not Rec	coraea.		
ŀ		these original files.		1	1				
F		-			1				
F		2. Soils are field visually classified in accordance with the Unified Soils							
E		Classification System.			1				
E I		3. Elevation based on predicted tide			1				
F									
È I		4. Laboratory Testing Results							
E		SAMPLE SAMPLE LABORATORY							
Ł		ID DEPTH CLASSIFICATION	۹ 						
-		1 0.0/2.0 SP*							
F		2 2.0/6.0 SP-SM*		1	1				
		*Lab visual classification based on gradation	n		1				
E		curve. No Atterberg limits.							
F									
È									
Ł				1	1				
F									
t				1	1				
				1	1	1			1

						ng Designation	VB-SJSP06-	2	
DRILLING	LOG	DIVISION South Atlantia	INSTAL			Victrict		SHEET 1 OF 2 SH	EETe
1. PROJECT		South Atlantic	-			District	Remarks		12513
St. Johns C	ounty, F	L SPP				E SYSTEM/DATUM	HORIZONTAL	VERTICAL	
Borrow Area	-			State	e Plar	ne, FLE (U.S. Ft.)	NAD83	MLW	
2. BORING DESIG		LOCATION COORDINATES	11. M/	ANUF	ACTU	RER'S DESIGNATION			
VB-SJSP06		X = 577,571 Y = 2,022,117		Alpir	ne 27	0 Vibracore on D/B		ANUAL HAN	
3. DRILLING AGEN Corps of En		CESA I	12. то	TAL	SAMP	LES	STURBED UI	NDISTURBED	(UD)
4. NAME OF DRILL			13 TC	ΤΔΙ	NUMB	BER CORE BOXES		0	
L. Gaughf							-		
5. DIRECTION OF	BORING	DEG. FROM BEARING	14. EL	EVAT	ION G	GROUND WATER	N/A STARTED		
VERTICAL			15. DA	TE B	ORING	G	06-14-06	06-14-0	
6. THICKNESS OF	OVERBU	irden N/A	16. EL	EVAT		TOP OF BORING	-32.4 Ft.		
			<u> </u>			VERY FOR BORING	Not Recorded	4	
7. DEPTH DRILLED	D INTO R	ock N/A				AND TITLE OF INSPE		a	
8. TOTAL DEPTH (OF BORIN	IG 15.0 Ft.		,					
ELEV. DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	REC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE
									_
-32.4 0.0	$\left \cdot \cdot \right $	SAND, poorly-graded, mostly fine-grained	-	┣—	-	4			
F		sand-sized quartz, trace silt, 10YR 6/2 light							
F	∷ ¹	brownish gray (SP)		L	-	-33.4			
Ę	∷::								
Ł	$ \cdots $		NR	1			Vibracore		
-34.9 2.5						-34.9			
		SAND, silty, mostly fine-grained sand-sized			1				
		quartz, little silt, 5GY 5/1 greenish gray(SM	^{I)} NR	2		25.0	Vibracore		
-35.9 3.5	 ;	SILT, inorganic-L, some fine-grained				-35.9			
F	s	sand-sized quartz, 10G 4/1 dark greenish							
F	⁽	gray (ML)	NR	3			Vibracore		
-37.4 5.0	 ,	SAND either mostly find around and aired		<u> </u>	-				
Ę		SAND, silty, mostly fine-grained sand-sized quartz, some silt, 10G 5/1 greenish gray				-37.9			
Ł	<u> </u> ((SM)		4					
-38.9 6.5				Ĺ					
	s	SILT, inorganic-L, some fine-grained sand-sized quartz, 10G 4/1 dark greenish gray (ML)							
	f	At El41.9 Ft., medium plasticity, little fine-grained sand-sized quartz, 10G 4/1 dar greenish gray	k NR				Vibracore		
-43.9 ⁻ 11.5 - - - - - - - - - - - - - - - -		SAND, silty, mostly fine-grained sand-sized quartz, some silt, 10BG 4/1 dark greenish gray (SM)							
Ε	│ ┼┆┼┆┃								
-47.4 🚺 15.0						-47.4	(Continued)		

DR	ILLING	LOC	G (Cont. Sheet)	INSTALLA				0 0			SHEET		
				Jackso					1	,	OF 2	SHEE	τs
PROJEC				COORDIN					HORIZONTAL				
	ohns Coun			State F					NAD83	!	MLW		
	on coordi 577,571		s ,022,117	ELEVATIO		OFE	SORIN	G					
ELEV.	DEPTH		CLASSIFICATION OF MATERIA	•	RÉC.	BOX OR SAMPLE	RQD OR UD		REMARKS	5	BLOWS/	1 FT.	N-VALUE
			NOTES: 1. USACE Jacksonville is the custor these original files. 2. Soils are field visually classified is accordance with the Unified Soils Classification System. 3. Elevation based on predicted tide 4. Laboratory Testing Results SAMPLE SAMPLE LABORA ID DEPTH CLASSIFIC 1 1.0/2.5 SP-S 2 2.5/3.5 SP-S 3 3.5/5.0 SM 4 5.5/6.5 ML *Lab visual classification based on g curve. No Atterberg limits.	n TORY CATION M* *				Abbrevi NR =	ations: Not Recorded.				$\frac{2}{2}$

					E	Borin	g Designation VB-SJSP06	-20	
DRILLING	LOG		1	NSTAL				SHEET 1	
1. PROJECT		South Atlantic					istrict	OF 1 SH	IEETS
	Sounty						E OF BIT See Remarks	VERTICAL	
St. Johns C Borrow Are	-	, FL SFF	.				ne, FLE (U.S. Ft.) NAD83	MLW	
2. BORING DESIG		N LOCATION COORDINATES	1						R
VB-SJSP06	6-20	X = 616,320 Y = 1,95	59,437		Alpir	ne 27		MANUAL HAN	
3. DRILLING AGE		CONTRACTOR	FILE NO.	2. ТС		SAMP	IFS	NDISTURBED) (UD)
Corps of Er A. NAME OF DRILI		rs - CESAJ					<u> </u>	0	
L. Gaughf	LLK						ER CORE BOXES ()		
5. DIRECTION OF	BORIN		G 1	4. EL	EVAT		ROUND WATER N/A		
VERTICAL		VERTICAL	1	5. DA	TE B	ORING	STARTED 06-16-06	сомреете 06-16-0	
5. THICKNESS OF		BURDEN N/A		4 EI	EVAT		OP OF BORING -50.7 Ft.	00-10-0	
5. THICKNESS OF	OVER	BORDEN N/A						4	
7. DEPTH DRILLE	d into	ROCK N/A					VERY FOR BORING Not Recorde	a	
B. TOTAL DEPTH	OF BOF	RING 5.0 Ft.		0. 01	,	01127			
ELEV. DEPTH	LEGEND	CLASSIFICATION OF MATERIA	LS	REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE
	+								-
-50.7 0.0	<u></u>	SAND, poorly-graded, mostly fine-g	rained	-			-50.7		
F		sand-sized quartz, 10YR 7/1 light gr							
<u> </u>									
Ę									
E									
F							. <i>m</i>		
-53.7 3.0				NR	1		Vibracore		
-	11	SAND, poorly-graded, mostly fine-g	rained						
Ł		sand-sized quartz, trace silt, trace medium-grained sand-sized shell,							
<u> </u>		10Y 6/1 greenish gray (SP)							
F									
-55.7 5.0							-55.7		
F		NOTES:					Abbreviations: NR = Not Recorded.		
-		 USACE Jacksonville is the custo these original files. 	odian for				NK – Not Kecolded.		
-		2. Soils are field visually classified i accordance with the Unified Soils	in						
		Classification System.							
		 Elevation based on predicted tide Laboratory Testing Results 	e						
- - -		SAMPLE SAMPLE LABORA							
Ē		1 0.0/5.0 SP							
-		*Lab visual classification based on o curve. No Atterberg limits.	gradation						
Ē									
F									
F									
Ę									
Ł									
F									
F									

								ng Designation	VB-SJSP06-	-	
DRILLING L	OG	DIVISION	lontic							SHEET 1	15570
I. PROJECT	-	South Atl	antic		-			District	Remarks	OF 2 SH	TEEIS
St. Johns Co	untv E							SYSTEM/DATUM	HORIZONTAL	VERTICAL	
Borrow Area	-							ne, FLE (U.S. Ft.)	1	MLW	
2. BORING DESIGN		LOCA		RDINATES	11. M			RER'S DESIGNATIO			ER
VB-SJSP06-	21	Х	= 615,797	7 Y = 1,968,333		Alpi	ne 27	0 Vibracore on D/		IANUAL HAN	
3. DRILLING AGENO			c	ONTRACTOR FILE NO.	12. 1	OTAL	SAMP			NDISTURBED) (UD)
Corps of Eng 4. NAME OF DRILLE	,	- CESAJ							3	0	
L. Gaughf	-R				13. 1	OTAL	NUMB	SER CORE BOXES	0		
5. DIRECTION OF B	ORING		G. FROM	BEARING	14. E	LEVA		GROUND WATER	N/A		
		VE	RTICAL		15. C	DATE B	ORINO	G	STARTED	COMPLETE	
				1					06-16-06	06-16-0	06
5. THICKNESS OF C	OVERBU	RDEN N/A	۱		<u> </u>			TOP OF BORING	-53.3 Ft.		
7. DEPTH DRILLED	INTO R	оск N/A						VERY FOR BORING		k	
3. TOTAL DEPTH O		IG 9.0 Ft.			18. 5	IGNA	URE A	AND TITLE OF INSP	ECTOR		
		0.011.			<u> </u>	,					ы
ELEV. DEPTH	LEGEND	CLASSI	FICATION	OF MATERIALS	RÉ	BOX OR SAMPLE			REMARKS	BLOWS/ 1 FT.	N-VALUE
								50.0			
-53.3 0.0		SAND, poorly-	-graded, n	nostly fine-grained	+			-53.3			
F I				R 6/1 gray (SP)			1				
F F	\therefore										
E I	::::										
-									\/:k		
-55.5 -2.2	₩L	SAND noorly-	oraded n	nostly fine-grained	NF	1			Vibracore		
E I	:::] s	sand-sized qua	artz, trace	e medium to							
E I		coarse-grained					1				
F I		ion on green	isii yiay								
-57.3 4.0			oothy fina	-grained sand-sized			-	-57.3			
E I		quartz, little sil	lt, few san	nd to gravel-sized		2					
-58.3 5.0	[<u> </u>] {	shell up to 3/8	", 10Y 4/1	dark greenish gray	NF	۲			Vibracore		
-58.6 _ 5.3		(SM) CLAY, fat, few	/ fine-arai	ned sand-sized	-/]			-58.8			
F I	1+1+1\a	quartz, 10Y 3/	1 very da	rk greenish gray			1				
		(CH) SAND, silty, m	nostly fine	-grained sand-sized	J		1				
E I	1111 c	quartz, little sa	and to gra	vel-sized shell up to			1				
F 1		3/4", little silt, 8	5GY 5/1 g	greenish gray (SM)							
F 1	+ ‡ + ‡				NF	2 3			Vibracore		
E I	<u> </u>										
E I	<u><u></u> </u>										
-62.3 9.0	<u> </u> 							-62.3			
-	••••	NOTES:						Abbreviations: NR = Not Re	corded.		
		1. USACE Jac hese original f		is the custodian for							
Ľ ∣		2. Soils are fie									
E I		accordance wi		ified Soils							
- F - I		Classification \$	System.								
	3	3. Elevation b	ased on p	predicted tide							
E I		4. Laboratory	Testing F	Results							
- F			Ũ								
	S		SAMPLE DEPTH	LABORATORY CLASSIFICATION							
F I			0.0/4.0	SP*							
ļ ļ			4.0/5.0 5.5/9.0	SP-SM* SP-SM*							
	6	5	0.0/9.0	3F-3IVI			1		(Continued)		

DR	ILLING	LOC	G (Cont. Sheet)	INSTALLA Jackso				<u> </u>			SHEET OF 2		rs
PROJEC				COORDIN				I IM	HORIZONTAL	VE	RTICAL	~1166	
	ohns Coun	tv Fl	SPP	State F					NAD83		MLW		
	ON COORDI			ELEVATIO					10,200				
	615,797			-53.3 F		0. 2		0					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIA		RÉC.	BOX OR SAMPLE	RQD OR UD		REMARKS	i	BLOWS/	1 F I.	
			*Lab visual classification based on o curve. No Atterberg limits.	gradation									

						ng Designation	VB-SJSP06-	22	
DRILLING	LOG	DIVISION				Vietriet		SHEET 1	JEETO
1. PROJECT		South Atlantic			-	District PE OF BIT See F	Remarks	OF 1 SH	TELIS
St. Johns (County, I	FL SPP				E SYSTEM/DATUM	HORIZONTAL	VERTICAL	
Borrow Are				Stat	e Plai	ne, FLE (U.S. Ft.)	NAD83	MLW	
2. BORING DESIG			11. M			IRER'S DESIGNATION			
VB-SJSP0 3. DRILLING AGE	-	X = 616,414 Y = 1,974,089 CONTRACTOR FILE NO.		Alpir	ne 27	O Vibracore on D/B		NDISTURBE	
Corps of E			12. TO	DTAL	SAMP	NES	2	0	5 (05)
4. NAME OF DRIL			13. TO	DTAL	NUME	BER CORE BOXES	0		
L. Gaughf			14. EI	EVA		GROUND WATER	N/A		
5. DIRECTION OF		DEG. FROM BEARING				•	STARTED	COMPLET	ED
			15. D		ORING	G	06-16-06	06-16-	06
6. THICKNESS OF	FOVERB	urden N/A	16. EI	EVA		TOP OF BORING	-50.1 Ft.		
7. DEPTH DRILLE	D INTO F	ROCK N/A				VERY FOR BORING	Not Recorded	k	
8. TOTAL DEPTH	OF BORI	NG 8.0 Ft.	18. SI	GNAT	URE /	AND TITLE OF INSPE	CTOR		
ELEV. DEPTH	EGEND	CLASSIFICATION OF MATERIALS	I RÉC	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE
	LEG		REC	SAN.	ŬĎ			BL(0	2-N
				1	1	504			
-50.1 0.0	$+\cdots+$	SAND, poorly-graded, mostly fine-grained				-50.1			
F		sand-sized quartz, 10YR 7/1 light gray (SP)			1				
F				1	1				
F				1	1				
È.									
È				1	1				
Ł			NR	'			Vibracore		
F	[]			1	1				
F	$ \cdots $			1	1				
F	[∷]			1	1				
Ę.				1	1				
-55.3 -5.2		SAND, poorly-graded with silt, mostly	_	\vdash	1	-55.6			
Ę		fine-grained sand-sized quartz, few silt, trace	e	1	1				
F		medium-grained sand-sized shell, 10Y 5/1 greenish gray (SP-SM)		1	1				
Ŀ					1		Vibrosses		
F		-At El56.9 Ft., mostly fine-grained	NR	2	1		Vibracore		
F		sand-sized quartz, little sand to gravel-sized shell up to 3/8", few silt, 2.5Y 6/3 light							
-58.1 8.0		yellowish brown	_	_		-58.1			
Ę		NOTES:			1	Abbreviations:			
Ŀ		1. USACE Jacksonville is the custodian for			1	NR = Not Rec	orded.		
E		these original files.		1	1				
F		2. Soils are field visually classified in			1				
Ē		accordance with the Unified Soils Classification System.							
F		3. Elevation based on predicted tide		1	1				
Ł		·							
F		4. Laboratory Testing Results		1	1				
-		SAMPLE SAMPLE LABORATORY ID DEPTH CLASSIFICATION							
L				1	1				
		1 0.0/5.0 SP* 2 5.5/8.0 SP-SM*							
			n						

						g Designation VB-SJSP06-23	
DRILLING	LOG	DIVISION	INSTA			SHEET 1	
		South Atlantic	-		/ille D		HEETS
	ountie T					E OF BIT See Remarks	
St. Johns Co Borrow Area		LSPP				ne, FLE (U.S. Ft.) NAD83 MLW	-
2. BORING DESIGN		LOCATION COORDINATES	11. M			RER'S DESIGNATION OF DRILL AUTO HAMM	FR
VB-SJSP06	-23	X = 616,569 Y = 1,981,482		Alpir	ne 27(O Vibracore on D/B Snell	
3. DRILLING AGEN	ICY	CONTRACTOR FILE NO.	12. T	ΟΤΔΙ	SAMP	DISTURBED UNDISTURBE	D (UD)
Corps of En NAME OF DRILL	0	- CESAJ				2 0	
L. Gaughf	ER		13. T	OTAL	NUMB	ER CORE BOXES ()	
5. DIRECTION OF I	BORING	DEG. FROM BEARING	14. E	LEVAT		ROUND WATER N/A	
		VERTICAL	15. D	ATE B	ORING	STARTED COMPLET	
		<u> </u>				06-16-06 06-16-	06
5. THICKNESS OF	OVERBL	jrden N/A	L			OP OF BORING -51.8 Ft.	
7. DEPTH DRILLED	INTO R	оск N/A				VERY FOR BORING Not Recorded	
B. TOTAL DEPTH C		NG 7.0 Ft.	18. S	IGNAT	URE A	AND TITLE OF INSPECTOR	
ELEV. DEPTH	EGEND	CLASSIFICATION OF MATERIALS		BOX OR SAMPLE	RQD OR UD	REMARKS	N-VALUE
	Ĕ			BOBO		BL BL	7-N
-51.8 0.0						-51.8	
-		SAND, poorly-graded, mostly fine-grained	+			01.0	
E		sand-sized quartz, trace medium-grained sand-sized shell, 10YR 7/1 light gray (SP)					
F	[∵ ;] `						
-53.4 1.6							
Ē.		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little medium to					
-54.5 - 2.7	$[\cdots]$	coarse-grained sand-sized shell,		1			
-54.5 2.7	ł∷∖∖	10YR 7/1 light gray (SP) SAND, poorly-graded, mostly fine-grained	NR	1 ·		Vibracore	
F	l.•.•.l =	sand-sized quartz, trace medium-grained		·		VIDIACOLE	
Ę	[∗]	sand-sized shell, 10YR 7/1 light gray (SP)					
F							
F							
-56.8 5.0	\mapsto	SAND, poorly-graded, mostly fine-grained			-		
-57.5 5.7	$[\cdot \cdot \cdot]$	sand-sized quartz, few sand to gravel-sized					
		shell up to 3/8", 2.5Y 5/1 gray(SP) SAND, poorly-graded with silt, mostly	-∕∟_			-57.8	
E	 	fine-grained sand-sized quartz, few silt, trace		2		Vibracara	
-58.8 7.0		medium-grained sand-sized shell, 10Y 5/1 greenish gray (SP-SM)		2		Vibracore -58.8	
-			-1			Abbreviations:	
Ę		NOTES:				NR = Not Recorded.	
Ē		1. USACE Jacksonville is the custodian for these original files.					
F		2. Soils are field visually classified in					
F		accordance with the Unified Soils Classification System.					
F		 Elevation based on predicted tide 					
Ę							
F		4. Laboratory Testing Results					
È	5	SAMPLE SAMPLE LABORATORY ID DEPTH CLASSIFICATION					
F			-				
Ę		1 0.0/5.0 SP* 2 6.0/7.0 SP*					
		*Lab visual classification based on gradation					
Ę		curve. No Atterberg limits.					
F							
Ľ							

						ng Designation VB-SJSP06-24	
DRILLING	LOG	DIVISION				District OF 2 SHEET 1	
1. PROJECT	-	South Atlantic			-	District OF 2 SH E OF BIT See Remarks	TEEIS
St. Johns	Countv.	FL SPP				SYSTEM/DATUM HORIZONTAL VERTICAL	
Borrow Ar				Sta	te Pla	ne, FLE (U.S. Ft.) NAD83 MLW	
2. BORING DESI		LOCATION COORDINATES	11. 1			RER'S DESIGNATION OF DRILL 🛛 AUTO HAMM	
VB-SJSP		X = 608,068 Y = 1,981,665		Alpi	ne 27	0 Vibracore on D/B Snell	
3. DRILLING AG		s - CESAJ		OTAL	SAMP	LES 1 O	J (UD)
4. NAME OF DRI	0		13.	ΟΤΑΙ	NUME	BER CORE BOXES ()	
L. Gaughf	÷		_			-	
5. DIRECTION O		G DEG. FROM BEARING	14. 1	LEVA		GROUND WATER N/A	ED
			15. [DATE E	BORIN	G 07-27-06 07-27-	
6. THICKNESS C	OF OVERB	BURDEN N/A	16. 1	ELEVA		FOP OF BORING -54.6 Ft.	
			17. 1	OTAL	RECO	VERY FOR BORING Not Recorded	
7. DEPTH DRILL	EDINIOI	ROCK N/A	18. 9	GIGNA	TURE	AND TITLE OF INSPECTOR	
8. TOTAL DEPTH	I OF BOR	ING 10.8 Ft.		,			
ELEV. DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	RE	BOX OR	ROD OR UD		N-VALUE
-54.6 0.0	$+\cdots$	SAND, poorly-graded, mostly fine-grained			+	-54.6	
ŀ		sand-sized quartz, trace medium-grained sand-sized shell, 10Y 5/1 greenish gray					
F		(SP)		1			
F			N	۲		Vibracore	
-56.8 -2.2							
2.2		SAND, poorly-graded with silt, mostly				-57.1	
ŀ		fine-grained sand-sized quartz, few medium to coarse-grained sand-sized shell, few silt,					
F		10Y 4/1 dark greenish gray (SP-SM)		2			
Ę			N	۲		Vibracore	
-58.7 _4.1		SAND, silty, mostly fine-grained sand-sized				50.4	
E	┃┇┼┇┼┃	quartz, little silt, little sand to gravel-sized		+-	-	-59.1	
-	I † I † I I	shell up to 3/8", 10Y 4/1 dark greenish gray (SM)					
F		At El59.9 Ft., low plasticity, some		3			
-60.9 _ 6.3		fine-grained sand-sized quartz, some sand to gravel-sized shell up to 1/2", some silt,			4		
-60.9 6.3		5G 4/1 dark greenish gray	_/				
-61.8 7.2		CLAY, fat, high plasticity, few fine-grained sand-sized quartz, trace medium-grained					
		sand-sized shell, 5G 5/1 greenish gray (CH	<u>~ </u>				
F		SAND, silty, mostly fine to medium-grained sand-sized quartz, little sand to gravel-sized	I NF	۲		Vibracore	
F		shell up to 1/2", little silt, 5GY 6/1 greenish					
F		gray (SM)					
F							
Ł							
F							
-65.4 [10.8						-65.4	
-		NOTES				Abbreviations:	
F		NOTES:				NR = Not Recorded.	
-		1. USACE Jacksonville is the custodian for these original files.					
- - -		2. Soils are field visually classified in accordance with the Unified Soils Classification System.					
Ē		3. Elevation based on predicted tide					
E E		4. Laboratory Testing Results					
F		,					
SAJ FORM 1	836					(Continued)	

DRILLING		G (Cont	Sheet)		INSTALLA				0	gnation VB-SJS	SHEET 2	
			Sileety		Jackso					I	OF 2 S	HEETS
PROJECT St. Johns Cou	ntv Fl	SPP			COORDIN State					HORIZONTAL NAD83	VERTICAL MLW	
LOCATION COORD					ELEVATIO							
		,981,665			-54.6 F							
ELEV. DEPTH	LEGEND	CLA	SSIFICATION	OF MATERIA	LS	REC.	BOX OR SAMPLE	ROD OR UD		REMARK	6 BLOWS/ BLOWS/	N-VALUE
ELEV. DEPTH	Image: Provide the second s	SAMPLE ID 2 3 *Lab visual	ASSIFICATION SAMPLE DEPTH 0.0/2.0 2.5/4.0 4.5/6.0 I classification Atterberg lim	LABORA CLASSIFIC SP-S SP-S SP-S n based on g	TORY CATION M* M* M*	RÉC.	BOX OR SAMPLE				S HEIL	

						g Designation VB-SJSP06-25	
DRILLING	LOG	DIVISION	INSTA			SHEET 1	
1. PROJECT		South Atlantic			-	istrict OF 1 SH E OF BIT See Remarks	EETS
St. Johns C	ountv	FI SPP				SYSTEM/DATUM HORIZONTAL VERTICAL	
Borrow Area						ne, FLE (U.S. Ft.) NAD83 MLW	
2. BORING DESIGN		LOCATION COORDINATES	11. M			RER'S DESIGNATION OF DRILL AUTO HAMME	R
VB-SJSP06	-25	X = 606,132 Y = 1,987,840		Alpir	ne 27	0 Vibracore on D/B Snell MANUAL HAM	IMER
3. DRILLING AGEN		CONTRACTOR FILE NO.	12. T	DTAL	SAMP		(UD)
Corps of En 4. NAME OF DRILL		s - CESAJ				3 0	
L. Gaughf			13. T	DTAL	NUMB	BER CORE BOXES ()	
5. DIRECTION OF	BORING		14. EI	EVAT		GROUND WATER N/A	
VERTICAL		VERTICAL	15. D	АТЕ В	ORING	G STARTED COMPLETE	
	01/505		1/ 5	E V/47			0
6. THICKNESS OF	OVERE	BURDEN N/A	<u> </u>			TOP OF BORING -52.5 Ft.	
7. DEPTH DRILLED	D INTO	ROCK N/A				VERY FOR BORING Not Recorded	
8. TOTAL DEPTH C	of Bor	ING 7.3 Ft.					
ELEV. DEPTH	EGEND	CLASSIFICATION OF MATERIALS	RÉC	BOX OR SAMPLE	RQD OR UD	ی . REMARKS کا علا	N-VALUE
	┝╼┼		_			_	2
-52.5 0.0	$\left \right $					-52.5	
Ł	[···]	SAND, poorly-graded, mostly fine-grained sand-sized quartz, 5GY 6/1 greenish gray					
Ŀ	[]	(SP)					
-54.0 1.5							
-	l∷t	SAND, poorly-graded, mostly fine-grained	NR	1		Vibracore	
-		sand-sized quartz, trace silt, trace medium-grained sand-sized shell,					
ŀ		5GY 5/1 greenish gray (SP)					
Ē.							
-56.0 3.5		SAND, poorly-graded with silt, mostly sand		<u> </u>	4	-56.0	
E_	 ∶·	to gravel-sized shell up to 3/4", little					
È		fine-grained sand-sized quartz, few silt, 5GY 5/1 greenish gray (SP-SM)	NR	2		Vibracore	
-57.5 5.0						-57.5	
-		SAND, silty, mostly sand to gravel-sized shell up to 3/4", little fine-grained sand-sized					
Ē		quartz, little silt, 5G 5/1 greenish gray (SM)					
F			NR	3		Vibracore	
Ę				1			
-59.8 7.3	╏┼┆┼┇╿				1	-59.8	
		NOTES:				Abbreviations:	
F				1		NR = Not Recorded.	
Ē		1. USACE Jacksonville is the custodian for these original files.					
F		2. Soils are field visually classified in					
-		accordance with the Unified Soils Classification System.					
e E		3. Elevation based on predicted tide					
F		4. Laboratory Testing Results					
F		SAMPLE SAMPLE LABORATORY					
F		ID DEPTH CLASSIFICATION		1			
Ę		1 0.0/3.5 SP*	-	1			
Ł		2 3.5/5.0 GM*					
-		3 5.0/7.0 SM*					
F		*Lab visual classification based on gradation					
F		curve. No Atterberg limits.					
Ł							
Г	1			1			1

					B	orin	g Designation VB-SJSP06	-26	
DRILLING L	OG						· · · · · ·	SHEET 1	
1. PROJECT		South Atlantic	-			-	istrict E OF BIT See Remarks	OF 1 SH	EETS
St. Johns Cou	untu El	SDD					E OF BIT See Remarks	VERTICAL	
Borrow Area	inty, r L		10.				ne, FLE (U.S. Ft.) NAD83	MLW	
2. BORING DESIGNA	TION	LOCATION COORDINATES	11.						R
VB-SJSP06-2	6	X = 607,539 Y = 1,993,564			Alpin	e 27(MANUAL HAM	
3. DRILLING AGENCY		CONTRACTOR FILE NO.	12.	то	TALS		FS	NDISTURBED	(UD)
Corps of Engir 4. NAME OF DRILLER		CESAJ		-			3	0	
L. Gaughf	ť		13.	то	TAL	IUMB	ER CORE BOXES ()		
5. DIRECTION OF BO	RING	DEG. FROM BEARING	14.	ELI	EVAT	ION G	ROUND WATER N/A		
		VERTICAL	15.	DA	TE BO	ORING	STARTED		
		<u> </u>					07-27-06	07-27-0	16
6. THICKNESS OF O	VERBUR	rden N/A					OP OF BORING -51.2 Ft.		
7. DEPTH DRILLED IN	NTO RO	DCK N/A					VERY FOR BORING Not Recorde	d	
8. TOTAL DEPTH OF	BORIN	G 7.5 Ft.	18.	SIG	INAT	JRE A	AND TITLE OF INSPECTOR		
			L		, A UU				ш
ELEV. DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	F	RÉC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE
54.0 0.0							54.0		
-51.2 0.0	∵. s	AND, poorly-graded, mostly fine-grained	+				-51.2		
F [·	: s	and-sized quartz, trace medium-grained		NR	1		Vibracore		
-52.3 1.1		and-sized shell, 10YR 5/1 gray (SP)					-52.2		
-52.8 1.6		GAND, silty, mostly fine-grained sand-sized uartz, little silt, 5GY 4/1 dark greenish gray		NR	2		Vibracore		
:	l\(ŝ	SM)	Λ				-53.2		
F F	· · · · · · · · · ·	SAND, poorly-graded, mostly fine-grained	- Γ						
F I:		and-sized quartz, little sand to gravel-sized hell up to 3/8", trace silt, 10Y 5/1 greenish							
E E	∖g	ray (SP)							
F Ľ.		t El53.7 Ft., mostly fine-grained and-sized quartz, few sand to gravel-sized			3				
F I:	' ∵. ∖ sl	hell up to 3/8", trace silt, 10Y 5/1 greenish							
E F.		ray t El54.9 Ft., mostly fine-grained							
-56.2 5.0	s	and-sized quartz, little sand to gravel-sized		NR			Vibracore		
-		hell up to 3/8", trace silt, 10Y 5/1 greenish	Λ						
		ray CLAY, fat, few sand to gravel-sized shell up	-						
	t to	o 3/8", few fine-grained sand-sized quartz,							
	L ⁵	BG 5/1 greenish gray (CH) at EI57.2 Ft., few fine-grained sand-sized							
F	q	uartz, trace medium-grained sand-sized							
-58.7 7.5	S S	hell, 10G 5/1 greenish gray	\square				-58.7		
E I	N	IOTES:					Abbreviations:		
E I							NR = Not Recorded.		
F I		. USACE Jacksonville is the custodian for nese original files.							
F		-							
E I		. Soils are field visually classified in ccordance with the Unified Soils							
F 1		Classification System.							
	3	. Elevation based on predicted tide							
	4	 Laboratory Testing Results 							
F I	c.	AMPLE SAMPLE LABORATORY							
Ē		ID DEPTH CLASSIFICATION	-						
E I		1 0.0/1.0 SP* 2 1.0/1.5 SP-SM*							
		2 1.0/1.5 SP-SM* 3 2.0/5.0 SP-SM*							
E		Lab visual classification based on gradation urve. No Atterberg limits.							
F I									
AJ FORM 1836									

								g Designation	VB-SJSP06-	27	
DRIL	LING	LOG	DIVISION	"	NSTAL			liatriat		SHEET 1	
1. PROJE		- '	South Atlantic					e of BIT See	Remarks	OF 2 SH	LEIS
	Johns Co	ountv	FI SPP					SYSTEM/DATUM	HORIZONTAL	VERTICAL	
	row Area					State	e Plai	ne, FLE (U.S. Ft.)	NAD83	MLW	
2. BORIN			LOCATION COORDINATES	1				RER'S DESIGNATIO			R
	SJSP06		X = 611,688 Y = 1,995,			Alpir	ne 27	0 Vibracore on D/		IANUAL HAN	
3. DRILLI				.E NO.	2. ТО	TAL	SAMP	LES	ISTURBED UN	NDISTURBED) (UD)
4. NAME			s - CESAJ		2 70	TAL		ER CORE BOXES	0	0	
L. G	Saughf			- H					-		
5. DIRECT		BORING	DEG. FROM BEARING		4. EL	EVAT		ROUND WATER	N/A		
	RTICAL			1	5. DA	TE B	ORING	3	STARTED 07-27-06	COMPLETE	
<u>—</u> 6. тніскі		OVERB	surden N/A	1	6. EL	EVAT		OP OF BORING	-48.7 Ft.	. 0 (
			· · · · · · · · · · · · · · · · · · ·					VERY FOR BORING	Not Recorded	4	
7. DEPTH	DRILLED	INTO I	ROCK N/A					AND TITLE OF INSP		A	
8. TOTAL	DEPTH O	OF BOR	ING 9.7 Ft.			,					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS		REC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE
-48.7 (0.0	$\left \cdots \right $	SAND, poorly-graded, mostly fine-grai	ned				-48.7			
F			sand-sized quartz, trace medium-grain	ned							
F.			sand-sized shell, 10YR 7/1 light gray	(SP)							
E		· · · ·]			NR	1			Vibracore		
F											
-51.2	2.5	••••						-51.2			
-		l:∴r	SAND, poorly-graded, mostly fine-grai				1				
F		•.•.•	sand-sized quartz, trace medium-grain sand-sized shell, 10YR 6/1 gray (SP)	iea							
Ŀ											
-											
F											
Ę.											
E											
F						2					
F		\cdots			NR	2			Vibracore		
F											
F											
E		···:									
-											
F											
Ę.											
-58.4 - 9	9.7							-58.4			
	0.1		NOTES:					Abbreviations:			
È			1. USACE Jacksonville is the custodia	an for				NR = Not Re	corded.		
E			these original files.								
- - -			2. Soils are field visually classified in accordance with the Unified Soils Classification System.								
Ē			3. Elevation based on predicted tide								
Ē			4. Laboratory Testing Results								
			SAMPLE SAMPLE LABORATO								
									(Centing - 1)		
AJ FO	KM 183	36							(Continued)		

			G (Cont Shoot)	INSTALLA				<u></u>			SHEET			1
DR	ILLING	LOC	G (Cont. Sheet)	Jackso	onville	Distr	ict				OF 2	SHE	ETS	
PROJE				COORDIN					HORIZONTAL		RTICAL			
St.	Johns Coun	ity, FL	_ SPP	State I	Plane,	FLE	(U.S.	Ft.)	NAD83		MLW			
	ION COORDI			ELEVATIO		OF B	ORIN	G						
X =	611,688		,995,127	-48.7	t.									
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIA	ILS	REC.	BOX OR SAMPLE	RQD OR UD		REMARK	S	BLOWS/	1 FT.	N-VALUE	
			1 0.0/2.5 SF 2 2.5/9.5 SF *Lab visual classification based on curve. No Atterberg limits.	•										

				E	Borin	g Designation VB-SJSP06	-28	
DRILLING LOG	DIVISION	IN	ISTAL			·	SHEET 1	
1. PROJECT	South Atlantic					istrict E OF BIT See Remarks	OF 2 SH	IEETS
St. Johns County,						SYSTEM/DATUM HORIZONTAL	VERTICAL	
Borrow Area		^`				ne, FLE (U.S. Ft.) NAD83	MLW	
2. BORING DESIGNATION	LOCATION COORDINATES	11						P
VB-SJSP06-28	X = 610,905 Y = 2,000,8					· 🖵 '	MANUAL HAN	
3. DRILLING AGENCY	CONTRACTOR FILE	E NO.					NDISTURBED) (UD)
Corps of Engineer	rs - CESAJ	12	2. 10	TAL :	SAMP	2 2	0	
4. NAME OF DRILLER		13	з. тс	TAL I	NUMB	ER CORE BOXES ()		
L. Gaughf 5. DIRECTION OF BORING	G DEG. FROM BEARING	14	4. EL	EVAT		ROUND WATER N/A		
VERTICAL	G DEG. FROM BEARING VERTICAL					STARTED	COMPLETE	D
		15	5. DA	IE B	ORING	07-27-06	07-27-0)6
6. THICKNESS OF OVERE	burden N/A	16	6. EL	EVAT	TION T	OP OF BORING -56.8 Ft.		
	ROCK N/A	17	7. тс	TAL I	RECO	VERY FOR BORING Not Recorde	d	
7. DEPTH DRILLED INTO	RUCK N/A		B. SI	GNAT	URE A	AND TITLE OF INSPECTOR		
8. TOTAL DEPTH OF BOR	RING 17.6 Ft.			,				
ELEV. DEPTH	CLASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE
								
-56.8 0.0	SAND, poorly-graded, mostly fine-grain	od	<u> </u>			-56.8		┝
	sand-sized quartz, trace medium-graine							[
- ⊡	sand-sized shell, 5G 5/1 greenish gray	(SP)						
F I∷I								
-58.5 1.7	CAND poorly graded mostly find grain	a d						
	SAND, poorly-graded, mostly fine-grain sand-sized quartz, trace medium-graine							
F I∷-I	sand-sized shell, 10Y 6/1 greenish gray		NR	1		Vibracore		
	(SP)							
-60.2 - 3.4								
	SAND, poorly-graded, mostly fine-grain sand-sized quartz, trace medium-graine							
<u>-</u> …	sand-sized qualiz, trace medium-graine sand-sized shell, 10Y 5/1 greenish gray							
	(SP)							
-61.8 5.0	CAND silts mostly first arrained send a					-61.8		
E †+†+	SAND, silty, mostly fine-grained sand-si quartz, little silt, trace medium-grained	Ized						
┝───┃┇┤┇┤┃	sand-sized shell, 5G 5/1 greenish gray	(SM)						
F Hili								
E IIII								E
				2				F
E Ititi								
F IIIII								
	At El65.2 Ft., low plasticity, mostly fine-grained sand-sized quartz, some si	il+						
	trace medium-grained sand-sized quality, some si			<u> </u>	1			E
-66.3 9.5	5GY 4/1 dark greenish gray	r	-					
-67.0 -10.2	At El65.7 Ft., mostly fine-grained sand-sized quartz, some silt, little sand	to	NR			Vibracore		[
	gravel-sized shell up to 3/4", 5GY 4/1 da		1			VIDIGOUO		
F Ittil	greenish gray							
	SAND, clayey, low plasticity, mostly fine-grained sand-sized quartz, little clay	v.						
╞╴╹┆┼┆┼╏	little sand to gravel-sized shell up to 3/8							
	5GY 5/1 greenish gray (SC)							
	SAND, silty, some fine-grained sand-siz quartz, some sand to gravel-sized shell							E
F I†↓†↓h	3/4", some silt, 10GY 6/1 greenish gray							
	(SM)							[
E I+t+tI	At El68.5 Ft., some fine-grained sand-sized quartz, some sand to							
-71.1 14.3	gravel-sized shell up to 3/4", some silt,							
-71.1 14.3	10YR 6/6 brownish yellow	ſ	-					E
- [::]∄∦	LAt EI69.4 Ft., mostly fine-grained sand-sized quartz, some sand to							
						(Continued)		

DRI	ILLING	LOC	G (Cont. Sheet)	INSTALLA Jackso		Dietr	ict		SHEET 2 OF 2 SH	IFFTS
PROJEC										
	ohns Cour	nty, FL	_ SPP	State P					MLW	
	ON COORDI	NATE	s	ELEVATIO		OF B	ORIN	G		
X = 6	610,905	1	,000,886	-56.8 F	t.					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIA	LS	RÉC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE
-74.4	17.6		gravel-sized shell up to 3/4", little si 10YR 6/2 light brownish gray SAND, poorly-graded with silt, most fine-grained sand-sized quartz, som to gravel-sized limestone up to 1/2" 10YR 7/1 light gray (SP-SM)	ly le sand	NR			-74.4		
14.4	17.0		NOTES:					Abbreviations: NR = Not Recorded.		
			 USACE Jacksonville is the custo these original files. 	dian for						
			 Soils are field visually classified accordance with the Unified Soils Classification System. 	in						
			3. Elevation based on predicted tid	e						
			4. Laboratory Testing Results							
			SAMPLE SAMPLE LABORA ID DEPTH CLASSIFI	TORY CATION						
			1 0.0/5.0 SP 2 5.0/9.0 SP-S							
			*Lab visual classification based on curve. No Atterberg limits.	gradation						

					E	Borin	g Designation	VB-SJSP06-	-29	
DRILLING	LOG	DIVISION			LATIO				SHEET 1	
1. PROJECT		South Atlantic						Demerler	OF 2 SH	IEETS
							E OF BIT See	Remarks	VERTICAL	
St. Johns C Borrow Are	-						ne, FLE (U.S. Ft.)		MLW	
2. BORING DESIG		LOCATION COORDINATES	11				RER'S DESIGNATION			FR
VB-SJSP06	6-29	X = 617,490 Y = 1,997,032	2		Alpir	ne 270	0 Vibracore on D/B		ANUAL HAN	
3. DRILLING AGE		CONTRACTOR FILE N	10.	то		SAMP			NDISTURBED) (UD)
Corps of Er 4. NAME OF DRIL	0	- CESAJ						2	0	
4. NAME OF DRIL	LER		13	. то	TAL	NUMB	ER CORE BOXES	0		
5. DIRECTION OF	BORING	DEG. FROM BEARING	- 14	. EL	EVAT		ROUND WATER	N/A		
		VERTICAL	15	. DA	TE B	ORING	3	STARTED	COMPLETE	
		!						07-27-06	07-27-0	J6
6. THICKNESS OF	OVERBU	irden N/A						-51.1 Ft.		
7. DEPTH DRILLE	D INTO RO	оск N/A					VERY FOR BORING	Not Recorded	b	
8. TOTAL DEPTH	OF BORIN	IG 20.0 Ft.	18	. 510	SNAI	URE A	AND TITLE OF INSPE	CIOR		
			<u> </u>		, ~ Iul				~	ш
ELEV. DEPTH	LEGEND	CLASSIFICATION OF MATERIALS		REC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE
	Ĕ			REU.	B00 SAN	ŬD			1 1	>-z
-51.1 0.0	$\left \cdots \right $	SAND, poorly-graded, mostly fine-grained					-51.1			
F		sand-sized quartz, little sand to gravel-siz								1
E.	s	shell up to 1/2", 10YR 6/1 gray(SP)								
E										
F										
-53.6 2.5										
-		SAND, poorly-graded, mostly fine-grained			1					
F		sand-sized quartz, little sand to gravel-siz shell, 10YR 5/1 gray (SP)	red							
ŀ	l∷l`									
F				NR				Vibracore		
F										
-56.1 5.0	l∷. L									
E E		SAND, poorly-graded, mostly fine-grained sand-sized quartz, trace medium-grained	י 							
E		sand-sized shell, 10Y 6/1 greenish gray								
-		(SP)								
F										
-58.6 7.5							-58.6			
-50.0 7.5		SAND, poorly-graded, mostly fine-grained					-50.0			
F		sand-sized quartz, trace medium-grained sand-sized shell, 10YR 5/1 gray (SP)								1
ŀ	[⊡] `									
F	$ \cdots $									
F					2					1
È.	∷ .									1
Ł										1
ŀ										
-62.6 11.5	$ \cdots $			NR				Vibracore		
-		SAND, clayey, medium plasticity, mostly								1
F		ine-grained sand-sized quartz, some clay race medium-grained sand-sized shell,	у,							1
Ł		10Y 4/1 dark greenish gray (SC)								1
E.		At El63.3 Ft., medium plasticity, mostly ine-grained sand-sized quartz, some classication of the sand-sized state of the second state of the s								
<u>-64.5 - 13.4</u>		5G 4/1 dark greenish gray	"/							
Ŀ		SAND, poorly-graded with silt, mostly ine-grained sand-sized quartz, few silt,								1
Ł		10YR 5/1 gray (SP-SM)								1
F	[:•]‡ 	,								1
SAJ FORM 18	26						•	(Continued)		

DRILLING	1.00	G (Cont. Sheet)	INSTALLA			Borin		SHEET 2	
PROJECT			Jackso coordina					OF 2 SHE	ETS
St. Johns Coun	ity, FL	SPP	State P					MLW	
OCATION COORDI			ELEVATIO					•	
X = 617,490	Y = 1,	997,032	-51.1 F	t.	-				
ELEV. DEPTH	LEGEND	CLASSIFICATION OF MATERIA	LS	REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE
71.1 20.0		 At El66.1 Ft., some fine-grained sand-sized quartz, some sand to gravel-sized shell up to 3/4", few silt 10Y 6/1 greenish gray At El68.5 Ft., mostly fine-grained sand-sized quartz, few sand to grav shell up to 3/8", few silt, 10YR 5/1 grief 	el-sized	NR			Vibracore		
-71.1 20.0		NOTES: 1. USACE Jacksonville is the custo these original files. 2. Soils are field visually classified i accordance with the Unified Soils Classification System. 3. Elevation based on predicted tide 4. Laboratory Testing Results SAMPLE SAMPLE LABORA ID DEPTH CLASSIFIC 1 0.0/5.0 SP ² 2 7.5/11.0 SP ⁴ *Lab visual classification based on g curve. No Atterberg limits.	n TORY CATION				-71.1 Abbreviations: NR = Not Recorded.		

				E	Borin	g Designation	VB-SJSP06-	3	
DRILLING L	LOG	DIVISION South Atlantic	INSTA			istrict		SHEET 1 OF 2 SH	EETE
1. PROJECT		South Atlantic					Remarks		EETS
St. Johns Co	ounty, l	FL SPP				SYSTEM/DATUM	HORIZONTAL	VERTICAL	
Borrow Area	l J,			State	e Plar	ne, FLE (U.S. Ft.)	NAD83	MLW	
2. BORING DESIGN			11. M			RER'S DESIGNATIO			
VB-SJSP06- 3. DRILLING AGEN	-	X = 578,702 Y = 2,018,793 CONTRACTOR FILE NO.		Alpir	ne 270	0 Vibracore on D/E		NDISTURBED	
Corps of Eng		1	12. T	DTAL	SAMP				(00)
4. NAME OF DRILLE			13. T	DTAL	NUMB		0	0	
L. Gaughf			14 5	EVAT		ROUND WATER	N/A		
5. DIRECTION OF B	BORING	DEG. FROM BEARING VERTICAL				SKOOND WATER	STARTED		D
			15. D	ATE B	ORING	3	06-14-06	06-14-0	
6. THICKNESS OF (OVERB	urden N/A	16. E	EVA	ION T	OP OF BORING	-33.4 Ft.		
7. DEPTH DRILLED		ROCK N/A	17. T	DTAL	RECO	VERY FOR BORING	Not Recorded	ł	
7. DEPTH DRILLED	INTOF		18. S	GNAT	URE A	AND TITLE OF INSP			
8. TOTAL DEPTH O	F BORI	NG 14.0 Ft.		,					
ELEV. DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	RÉC	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE
22.4						22.4			
-33.4 0.0		SAND, poorly-graded with silt, mostly		\vdash		-33.4			
-		fine-grained sand-sized quartz, few silt, trac medium-grained sand-sized shell,	е						
- F - I		10Y 5/1 greenish gray (SP-SM)							
F I			NR	1			Vibracore		
E I				1					
-36.4 3.0						-36.4			
		SILT, inorganic-L, high plasticity, some fine-grained sand-sized quartz, trace medium-grained sand-sized shell, 10GY 3/1 very dark greenish gray (ML)		2					
-40.9 7.5		CLAY, lean, medium plasticity, little fine-grained sand-sized quartz, trace medium-grained sand-sized shell, 5GY 3/1 very dark greenish gray (CL)	NR				Vibracore		
-44.8 - 11.4 -45.2 11.8 -47.4 14.0		SAND, clayey, medium plasticity, mostly fine-grained sand-sized quartz, some clay, few fine to medium-grained sand-sized shel 10YR 6/1 gray (SC) CLAY, lean, medium plasticity, little fine-grained sand-sized quartz, trace medium-grained sand-sized shell, 5GY 3/1 very dark greenish gray (CL)	I, <u>/</u>			-47.4			
-		NOTES:		1		Abbreviations:			
E I		1101LU.		1		NR = Not Red	corded		
1 1							coraca.		

				INSTALLA	TION	E	orin	y Desi	gnation \	/B-912F		ET 2		
DRILLING LO	UG (Cont. S	sneet)		Jackso		Distr	ict					2 SH	EETS	
PROJECT				COORDIN					HORIZON		VERTICA			
St. Johns County,				State F					NAD8	3	MLW			
X = 578,702 Y =				-33.4 F		OFE	ORIN	G						
		SIFICATION	OF MATERIA		RÉC.	BOX OR SAMPLE	RQD OR UD			REMARKS	5	BLOWS/ 1 FT.	N-VALUE	
	1. USACE origin 2. Soils are accordance Classificatio 3. Elevation 4. Laborato SAMPLE ID 1 2	al files. field visuall with the Un on System. h based on p ory Testing R SAMPLE DEPTH 0.0/3.0 3.0/7.0 classification	CLASSIFIC SP-SI ML ²	n TORY CATION M*		SP SP								

		DIVISION	11	ISTAL			g Designation	_	SHEET 1	
DRILLIN	G LOG	South Atlantic	["`				istrict		OF 2 SH	HEETS
. PROJECT			9.					Remarks		
St. John	s County,	FL SPP	10	0. CC	ORD	NATE	SYSTEM/DATUM	HORIZONTAL	VERTICAL	
Borrow	-				State	e Plar	ne, FLE (U.S. Ft.)	NAD83	MLW	
. BORING DE							RER'S DESIGNATIO	· ^		ER
VB-SJS		X = 617,670 Y = 1			Alpir	ne 270) Vibracore on D/E		MANUAL HAN	
DRILLING A		CONTRACTO	DR FILE NO. 1:	2. ТО	TAL	SAMPI	LES	ISTURBED U	NDISTURBEI) (UD)
. NAME OF DI		s - CESAJ	<u> </u>	<u>а то</u>	.				0	
L. Gaug							ER CORE BOXES	0		
DIRECTION		DEG. FROM BEAF	RING	4. EL	EVAT	ION G	ROUND WATER	N/A		
		VERTICAL	1!	5. DA	TE B	ORING	3	STARTED		
		!						07-27-06	07-27-0	06
. THICKNESS	OF OVERB	urden N/A					OP OF BORING	-58.6 Ft.		
. DEPTH DRIL	LED INTO	ROCK N/A					VERY FOR BORING	Not Recorde	d	
B. TOTAL DEP		NG 10.6 Ft.	18	8. SIG	GNAT	URE A	ND TITLE OF INSPE	ECTOR		
					,					
ELEV. DEPT	LEGEND	CLASSIFICATION OF MATER	RIALS	RÉC.	BOX OR SAMPLE	ROD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE
59.6 0.0							FQ C			
-58.6 0.0		SAND, poorly-graded, mostly sar	nd to				-58.6			+
F	.∵.	gravel-sized shell up to 3/4", trace	e							
F		medium-grained sand-sized shell 10YR 5/1 gray (SP)	Ι,							
Ł	[:∵:]									
F										
F										
F										
Ľ.					1					
E										
F										
E										
ŀ										
F										
-64.2 5.6				NR				Vibracore		
-		CLAY, fat, few fine-grained sand-	sized							
F		quartz, trace medium-grained sar shell, 5G 5/1 greenish gray (CH)								
E		shell, 50 5/1 greenish gray (Ch)	1							
-										
Ę										
F										
F		-At El66.5 Ft., few fine-grained s quartz, 5G 4/1 dark greenish gray	sand-sized							
Ł		quarte, ou an unit greenion gray	7							
⊢										
F										
Ł										
-69.2 10.6							-69.2			
-03.2 - 10.0		NOTES:					Abbreviations:	pordod		
F		1. USACE Jacksonville is the cu	stodian for				NR = Not Red	Jordea.		
F		these original files.								
Ę		2. Soils are field visually classifie	ed in							
ŀ		accordance with the Unified Soils								
		Classification System.								
F		2. Elevation becaution predicted								
Ē			tido							1
		3. Elevation based on predicted	tide							
		 Laboratory Testing Results 	tide							

DR	ILLING	LOC	G (Cont. Sheet)		STALLA Jackson				<u> </u>			SHEET		те
				_						1	1	OF 2	SHEE	IS
PROJE		<u>ь.</u> гі												
	Johns Coun				State P					NAD83	!	MLW		
	617,670				<mark>еvатіоі</mark> -58.6 F		OFB	ORIN	G					
~ =	017,070	1	,900,072		-30.01	ι. 	e ul							ш
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIA	ALS		REC.	BOX OR SAMPLE	ROD OR UD		REMARKS	;	BLOWS/		N-VALUE
			SAMPLE SAMPLE LABORA ID DEPTH CLASSIF 1 0.0/5.5 SP-S *Lab visual classification based on curve. No Atterberg limits.	ICAT SM*	'ION 									

								ng Designation	VB-SJSP06	-31	
DRI	LLING	LOG	DIVISION	IN	ISTAL					SHEET 1	
1. PRO			South Atlantic	<u> </u>				District	Remarks	OF 1 SH	IEETS
	St. Johns C	Cunty	FL SPP					E SYSTEM/DATUM	HORIZONTAL	VERTICAL	
	Borrow Are	-						ne, FLE (U.S. Ft.)	1	MLW	
	ING DESIG		N LOCATION COORDINATES	11				RER'S DESIGNATIO			ER
	B-SJSP06		X = 595,981 Y = 2,083,615			Alpir	ne 27	0 Vibracore on D/E		MANUAL HAN	
			CONTRACTOR FILE N	12	2. ТО	TALS	SAMP	LES	2	NDISTURBED) (UD)
	E OF DRILL			13	3. ТС	TAL	NUMB	SER CORE BOXES	0	0	
	Gaughf				L FI	FVAT		GROUND WATER	N/A		
	ECTION OF	BORIN	G DEG. FROM BEARING VERTICAL						STARTED	COMPLETE	ED
	INCLINED			15	5. DA	TE B	ORING	G	06-15-06	06-15-0	06
6. тні	CKNESS OF	OVER	burden N/A	16	5. EL	EVAT	TION T	FOP OF BORING	-40.1 Ft.		
7. DEP	TH DRILLEI	D INTO	ROCK N/A	17	и. то	TAL I	RECO	VERY FOR BORING	Not Recorde	d	
• тот	AL DEPTH		RING 6.4 Ft.		3. SI	GNAT	URE A	AND TITLE OF INSPI	ECTOR		
6. TOT			ting 0.4 Ft.			,					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE
40.4	0.0							40.4			
-40.1	0.0	$\left\ \cdots \right\ $	SAND, poorly-graded, mostly fine-grained					-40.1			
	L		sand-sized quartz, trace medium-grained sand-sized shell, 10YR 7/1 light gray (SF))							
				,							
	-										
	-				NR	1			Vibracore		
	-										
	-										
	-										
-43.9	3.8	¦∷:	SAND, poorly-graded, mostly fine-grained	d				-44.1			
	-	$ \cdots $	sand-sized quartz, trace medium-grained sand-sized shell, 10YR 5/1 gray (SP)								
	-		Sand-Sized Shell, TOTR 5/T gray (SF)			2					
	-				NR	2			Vibracore		
	-										
-46.5	- 6.4	••						-46.5			
	-		NOTES:					Abbreviations:			
	-			for				NR = Not Red	corded.		
	-		 USACE Jacksonville is the custodian f these original files. 	IUI							
	 -		2. Soils are field visually classified in								
	-		accordance with the Unified Soils								
	-		Classification System.								
	-		3. Elevation based on predicted tide								
	 -		4. Laboratory Testing Results								
	L		SAMPLE SAMPLE LABORATOR	Y							
	<u> </u>		ID DEPTH CLASSIFICATIO								
	Ł		1 0.0/3.5 SP*								
	-		2 4.0/6.0 SP*								
	F		*Lab visual classification based on gradation	tion							
	- 		curve. No Atterberg limits.								
	-										
	<u>L</u>										
		1 I									1
	_										

						E	Borin	ng Designation	VB-SJSP06-	32	
DRILL		LOG	DIVISION			LATIO		Vietriet		SHEET 1	
1. PROJEC			South Atlantic	_			-	District	Remarks	OF 1 SH	ILLIS
	Johns Co	ountv	FL SPP						HORIZONTAL	VERTICAL	
	row Area							ne, FLE (U.S. Ft.)		MLW	
2. BORING			LOCATION COORDINATES	11.				RER'S DESIGNATION			R
	SJSP06		X = 589,470 Y = 2,087,040			Alpir	ne 270	0 Vibracore on D/B		IANUAL HAN	
3. DRILLIN			CONTRACTOR FILE N	0.	. то	TAL	SAMP	IFS	i) (UD)
4. NAME 0			s - CESAJ					•	2	0	
	Baughf							BER CORE BOXES	0		
5. DIRECT	TION OF E	BORING	DEG. FROM BEARING	-14.	. EL	EVAT	ION G	GROUND WATER	N/A		
	RTICAL CLINED		VERTICAL	15.	. DA	TE B	ORING	G	STARTED 06-15-06	COMPLETE	
6. THICKN			URDEN N/A	16	FI	EVAT		FOP OF BORING	-42.3 Ft.	00-10-0	
			·					VERY FOR BORING	Not Recorded	4	
7. DEPTH	DRILLED	INTO	rock N/A	17.				AND TITLE OF INSPE		1	
8. TOTAL	DEPTH C	F BOR	ING 6.0 Ft.			,					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS		REC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE
											_
-42.3 0	0.0		SAND, poorly-graded, mostly fine-grained					-42.3			
F			sand-sized quartz, few sand to gravel-size								
È.			shell up to 3/8", 10YR 5/1 gray (SP)								
E		· · · · ·			NR	1			Vibracore		
F					INIX				VIDIACOLE		
F											
-45.3 3	3.0							-45.3			
		$ \cdots $	SAND, poorly-graded, mostly fine-grained	ı F				+0.0			
F			sand-sized quartz, trace medium-grained sand-sized shell, 10YR 6/1 gray (SP)								
F			Sand-Sized Shell, TOTIC 0/1 gray (Sr)								
F					NR	2			Vibracore		
E.											
E											
-48.3 6	6.0	••••						-48.3			
ŀ			NOTES:					Abbreviations:			
F								NR = Not Reco	orded.		
F			1. USACE Jacksonville is the custodian for these original files.	or							
Ę			-								
F			2. Soils are field visually classified in accordance with the Unified Soils								
Ł			Classification System.								
⊢			3. Elevation based on predicted tide								
F											
Ļ			4. Laboratory Testing Results								
Ę			SAMPLE SAMPLE LABORATORY								
Ł			ID DEPTH CLASSIFICATIO	/N							
ŀ			1 0.0/3.0 SP*								
F			2 3.0/6.0 SP*								
F			*Lab visual classification based on gradati	ion							
Ę			curve. No Atterberg limits.								
F											
Г											
F		i 1						1			1
Ē											

			E	Borir	g Designation VB-SJSP06	5-33	
DRILLING LOG	DIVISION	INSTA			Notrict	SHEET 1	
1. PROJECT	South Atlantic	-			District	OF 2 SH	LETS
St. Johns County,	FLSPP				E OF BIT See Remarks	VERTICAL	
Borrow Area					ne, FLE (U.S. Ft.) NAD83	MLW	
2. BORING DESIGNATION	LOCATION COORDINATES	11. M					R
VB-SJSP06-33	X = 587,035 Y = 2,093,641		Alpir	ne 27		MANUAL HAM	
3. DRILLING AGENCY	CONTRACTOR FILE NO.	12. T	DTAL	SAMP	IFS	JNDISTURBED	(UD)
Corps of Engineer	s - CESAJ				2	0	
L. Gaughf		13. T	DTAL	NUME	BER CORE BOXES ()		
5. DIRECTION OF BORIN	G DEG. FROM BEARING	14. EI	EVA		GROUND WATER N/A		
	VERTICAL	15. D	ΑΤΕ Β	ORIN	STARTED	COMPLETE	
					06-15-06	06-15-0	6
6. THICKNESS OF OVERI	BURDEN N/A	<u> </u>			TOP OF BORING -43.3 Ft.		
7. DEPTH DRILLED INTO	ROCK N/A				VERY FOR BORING Not Recorde	ed	
8. TOTAL DEPTH OF BOR	ING 10.0 Ft.	18. SI	GNAT	URE	AND TITLE OF INSPECTOR		
			, 				ш
	CLASSIFICATION OF MATERIALS	RÉC	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE
			<u>шо</u>				z
-43.3 0.0	SAND, poorly-graded, mostly fine-grained		\vdash		-43.3		
F [:::]	sand-sized quartz, some sand to						
L I∷I	gravel-sized shell up to 3/4", 10YR 6/1 gray (SP)						
-44.8 1.5							
[[SAND, poorly-graded, mostly fine-grained sand-sized quartz, some sand to			1			
F ∷	gravel-sized shell up to 3/4", 10YR 5/1 gray						
-46.0 2.7	(SP) SAND, poorly-graded, mostly fine-grained	NR	1		Vibracore		
	sand-sized quartz, little medium to						
	coarse-grained sand-sized shell,						
	10YR 5/1 gray (SP)						
[]							
E I∷I							
-48.7 5.4				1	-48.8		
F […]	SAND, poorly-graded, mostly sand to gravel-sized shell up to 3/4", some			1			
-49.8 6.5	fine-grained sand-sized quartz,						
	10YR 5/1 gray (SP) SAND, poorly-graded, mostly fine-grained						
⊢ […]	sand-sized quartz, trace medium-grained						
F I∷-I	sand-sized shell, 10YR 5/1 gray(SP)		1				
-51.4 8.1		NR	2		Vibracore		
	SAND, poorly-graded, mostly fine-grained sand-sized quartz, trace medium-grained						
	sand-sized quartz, trace medium-grained sand-sized shell, 10YR 6/2 light brownish						
F E	gray (SP)						
-53.3 10.0				1	-53.3		
-	NOTES:			1	-53.3 Abbreviations:		
F I I				1	NR = Not Recorded.		
ĒII	1. USACE Jacksonville is the custodian for these original files.						
	2. Soils are field visually classified in			1			
	accordance with the Unified Soils Classification System.						
	 Elevation based on predicted tide 						
E I I							
<u> </u>	4. Laboratory Testing Results						
	SAMPLE SAMPLE LABORATORY ID DEPTH CLASSIFICATION						
AJ FORM 1836			1	1	(Continued)		

00			C (C	at Cha			INSTALLA	TION			0	-griation			SHEET	2		1
DR	ILLING	LOC	G (CO	nt. Sne	eŋ		Jackso	nville	Distr	ict				_	OF 2	SHE	ETS	
PROJE							COORDINA					HORIZO			RTICAL			
	Johns Coun						State F	lane,	FLE	(U.S.	Ft.)	NAE	083	1	MLW			
	ION COORDI						ELEVATIO		OF B	ORIN	G							
X =	587,035		.,093,641	1			-43.3 F	t.										
ELEV.	DEPTH	LEGEND		CLASSIFI		OF MATERIA	LS	RÉC.	BOX OR SAMPLE	ROD OR UD			REMARKS		BLOWS/	1 F T.	N-VALUE	
			1 2 *Lab v curve.	5.	0.0/5.0 .5/10.0 sification berg limi	SP SP n based on o	*											

			DIVIS	ION		IN	STAL				SHEET 1		٦
DRI	LLING	LOG	So	outh Atlantic			Jack	son	/ille D	istrict	OF 2 S	HEETS	5
1. PRO	JECT									E OF BIT See Remarks			
S	St. Johns C	ounty,	FL SPP			10	. CO	ORD	INATE	SYSTEM/DATUM HORIZONTA	L VERTICAI	L	
	Borrow Area									ne, FLE (U.S. Ft.) NAD83 RER'S DESIGNATION OF DRILL			
	B-SJSP06			X = 581	COORDINATES 761 Y = 2,094,255	111	. MA			Vibracore on D/B Snell [AUTO HAMN		
	LING AGEN			1 // 001	CONTRACTOR FILE NO.					DISTURBED	UNDISTURBE		
	Corps of Er	0	s - CESA	٨J		12	. то	TAL	SAMP	LES 1	0		
		.ER				13	. то	TAL	NUMB	ER CORE BOXES ()			
	Gaughf Е стіол ог	BODING	<u></u>	DEG. FRO	M BEARING	14	. EL	EVAT		ROUND WATER N/A			
	VERTICAL	Bonnik		VERTICAL		15	. DA	TE B	ORING	STARTED 07-26-06	сомрьет 6 07-26		
6. THIO	CKNESS OF	OVERE	URDEN	N/A		16	. EL	EVAT	τιοη τ	OP OF BORING -44.0 Ft.			
7. DFP			ROCK	N/A		17	. то	TAL	RECO	VERY FOR BORING Not Reco	rded		
						- 18	. SIG	GNAT	URE A	AND TITLE OF INSPECTOR			
8. TOT	AL DEPTH (OF BOR	ING 1	12.8 Ft.				,					
ELEV.	DEPTH	LEGEND	(CLASSIFICATI	ON OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE	
-44.0	0.0									-44.0			1
-44.0					d, mostly fine-grained					-44.0			-0
	-	$ \cdots $		zed quartz, fe grained sand	ew medium to								ŀ
	- -			/1 gray (SP)									F
	-												Ę
	-	$ \cdots $											E
-46.3	2.3	┟┄┟		noorly grada	d mostly find around								F
	-				d, mostly fine-grained ace medium-grained			1					Ē
	-	$ \cdots $	sand-siz	zed shell, 10	Y 5/1 greenish gray								-
	[(SP)										F
	-												L
	F	$ \cdots $											E
-49.0	5.0	·.·.											F
	-		CLAY, f	fat, high plast	icity, few fine-grained				1				-5
	È		sand-siz	zed quartz, N	I 4/ dark gray (CH)								E
	-												-
	-						NR			Vibracore	1		F
	<u> </u>												E
	-												-
	Ę												Ē
	-												F
	-												-
	-												F
													È
	ŀ												F .
	F												-1
	È												ţ.
	┝												\vdash
	F												F
	E.												F
	F		-At El5	56.2 Ft., medi	ium plasticity, few								ŀ
-56.8	12.8		fine-gra	ined sand-siz	zed quartz, trace	ļ				-56.8			1
	F	ľ	medium N 5/ gra		d-sized limestone,	/				Abbreviations:			F
	ŀ		1. J. g.a	^}		-				NR = Not Recorded.			F
	È.		NOTES	5:									F
	F		1. USA	CF Jackson	ville is the custodian for								E
	F			riginal files.									- .
		~ ~ ~								(Continue	-1)		-1

	DRILLING LOG (Cont. Sheet)							nation VB-S		SHEET 2	
	LUG (CUIIL She		Jackso					1		OF 2 S⊦	IEETS
PROJECT St. Johns Coun			COORDINA State F					HORIZONTAL NAD83		TICAL LW	
			ELEVATIO					I NADOJ	! !!!		
	Y = 2,094,255		-44.0 F		01 1		0				
ELEV. DEPTH	CLASSIFI	ICATION OF MATERI	ALS	REC.	BOX OR SAMPLE	RQD OR UD		REMA	ARKS	BLOWS/ 1 FT.	N-VALUE
SAJ FORM 183	2. Soils are field accordance with Classification Sy 3. Elevation bas 4. Laboratory Tr SAMPLE SA ID D 1 0 *Lab visual class curve. No Attern	sed on predicted tid esting Results AMPLE LABOR DEPTH CLASSIF	de ATORY ICATION		Bo Star						

							E	Borin	g Designation	VB-SJSP06	-35	
DRILLING	LOG	DIVISIO					LATIO		liatriat		SHEET 1	
I. PROJECT		Sout	h Atlantic		-			-	istrict E OF BIT See	Remarks	OF 1 SH	TEETS
St. Johns C Borrow Are	-	FL SPP				со	ORDI	INATE	E OF BIT See SYSTEM/DATUM ne, FLE (U.S. Ft.)	HORIZONTAL	VERTICAL MLW	
2. BORING DESIG VB-SJSP06 3. DRILLING AGEI	6-35	N L		RDINATES Y = 2,100,615 NTRACTOR FILE NO		MA	NUF	ACTU	RER'S DESIGNATIO 0 Vibracore on D/E	N OF DRILL	AUTO HAMMI MANUAL HAM NDISTURBEI	MMER
Corps of Er	ngineer	rs - CESAJ		NTRACTOR FILE NO	12.	-				2 0		D (UD)
L. Gaughf									GROUND WATER	N/A		
5. DIRECTION OF VERTICAL INCLINED	BORIN	G	DEG. FROM VERTICAL	BEARING				ORING		N/A STARTED 07-26-06	COMPLET	
5. THICKNESS OF	OVER	BURDEN	N/A	•						-42.6 Ft.	1	
7. DEPTH DRILLE			I/A		17.				VERY FOR BORING	Not Recorde	d	
3. TOTAL DEPTH		RING 5.8	Ft.				,				-	
ELEV. DEPTH	LEGEND	CL	ASSIFICATION (OF MATERIALS	F	RÉC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE
-42.6 0.0									-42.6			
-43.7 <u>1.1</u>		sand-sized sand-sized SAND, por sand-sized sand-sized (SP)	d quartz, trace d shell, 10YR 7 orly-graded, m d quartz, trace d shell, 10Y 5/ ²	ostly fine-grained medium-grained 7/2 light gray (SP) ostly fine-grained medium-grained 1 greenish gray		NR	1		-47.6	Vibracore		
-48.4 5.8		sand-sized sand-sized	d quartz, trace	medium-grained 1 dark greenish gra		NR	2		-48.4	Vibracore		
		these origi 2. Soils an accordanc Classificat 3. Elevatio 4. Labora SAMPLE ID 1 2 *Lab visua	inal files. re field visually re with the Unit ion System. on based on pr tory Testing Re SAMPLE DEPTH 0.0/5.0 5.0/5.8	redicted tide esults LABORATORY CLASSIFICATIOI SP* SP* based on gradatio	N				Abbreviations: NR = Not Red	corded.		

						ng Designation	VB-SJSP06-	36	
DRILLING	LOG	DIVISION South Atlantic	INSTA			District		SHEET 1 OF 2 SH	IFFTe
1. PROJECT		South Atlantic	-				Remarks		IEEIS
St. Johns C	ounty,	FL SPP				SYSTEM/DATUM	HORIZONTAL	VERTICAL	
Borrow Area				Stat	e Plai	ne, FLE (U.S. Ft.)	NAD83	MLW	
2. BORING DESIGN			11. M	ANUF	ACTU	RER'S DESIGNATIO			
VB-SJSP06		X = 568,070 Y = 2,099,220	\vdash	Alpiı	ne 27	0 Vibracore on D/E		ANUAL HAN	
 DRILLING AGEN Corps of En 		CESA I	12. T	OTAL	SAMP	LES	ISTURBED UN	IDISTURBED) (UD)
4. NAME OF DRILL	0		13 T	οται		SER CORE BOXES	0	0	
L. Gaughf							-		
5. DIRECTION OF I	BORING	B DEG. FROM BEARING	14. E	LEVA	ION C	GROUND WATER	N/A STARTED		-
			15. D	ATE B	ORING	G	07-26-06	07-26-0	
6. THICKNESS OF	OVERB	urden N/A	16. E			FOP OF BORING	-44.5 Ft.	1	
		·	17. Т	OTAL	RECO	VERY FOR BORING	Not Recorded	1	
7. DEPTH DRILLED		ROCK N/A	18. S	GNAT	URE /	AND TITLE OF INSPI			
8. TOTAL DEPTH C	DF BORI	ING 9.0 Ft.		,					
ELEV. DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	RÉC	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE
-44.5 0.0	$\left \dots \right $	SAND, poorly-graded, mostly fine-grained	\rightarrow	-	┨──	-44.5			
F		sand-sized quartz, few medium to							
-		coarse-grained sand-sized limestone, 10YR 6/2 light brownish gray (SP)							
È									
				1					
-46.7 - 2.2	ł∴ŀ	SAND, poorly-graded, mostly fine-grained		'					
F		sand-sized quartz, trace medium-grained							
-	••••	sand-sized shell, 10Y 5/1 greenish gray (SP)							
-48.5 4.0		CLAY, lean, medium plasticity, little	_	_	-				
F		fine-grained sand-sized quartz, few sand to	NR				Vibracore		
Ē	V/A	gravel-sized shell up to 3/8", N 4/ dark gray (CL)							
Ē	VA								
-									
E									
-51.5 7.0	V/λ				1				1
-		SAND, poorly-graded with silt, mostly			1				1
Ę	 :. 	fine-grained sand-sized quartz, few silt, 10Y 5/1 greenish gray (SP-SM)			1				1
F					1				1
	 :. 				1	50.5			1
<u>-53.5 9.0</u> -		NOTEO		-		-53.5 Abbreviations:			
Ę		NOTES:			1	NR = Not Red	corded.		
Ē		1. USACE Jacksonville is the custodian for these original files.							
Ł		2. Soils are field visually classified in			1				
E		accordance with the Unified Soils Classification System.							
Ę		 Elevation based on predicted tide 							
Ę		4. Laboratory Testing Results							
		SAMPLE SAMPLE LABORATORY ID DEPTH CLASSIFICATION							
F		1 0.0/4.0 SP*							
F				1	1				1
L	1 1	*Lab visual classification based on gradation							

	INSTALL			5	9 2 001			SHEET	2		1
DRILLING LOG (Cont. Sheet)		onville [Distri	ct				OF 2		етѕ	
PROJECT	COORDIN				им	HORIZONTAL	VE	RTICAL			1
St. Johns County, FL SPP		Plane, I				NAD83		MLW			
LOCATION COORDINATES	ELEVATIO										
X = 568,070 Y = 2,099,220	-44.5	Ft.									
	F MATERIALS	RÉC.	BOX OR SAMPLE	ROD OR UD		REMARK	S	BLOWS/	1 FT.	N-VALUE	
curve. No Atterberg limit	δ.										

							B	orin	g Designation	VB-SJSP06	-37		_
DRILLING	LOG	DIVISION			INST				in turi nt		SHEET 1]
1. PROJECT		South	n Atlantic		-				istrict E OF BIT See	Remarks	OF 1 SH	IEETS	4
St. Johns C	County	FL SPP							SYSTEM/DATUM	HORIZONTAL	VERTICAL		-
Borrow Are									ne, FLE (U.S. Ft.)		MLW		
2. BORING DESIG	NATION	I L	OCATION COO	RDINATES	11.				RER'S DESIGNATIO			ER	1
VB-SJSP06				5 Y = 2,105,294		A	lpin	e 27(0 Vibracore on D/		MANUAL HAN		_
3. DRILLING AGE		CESAL	CC	DNTRACTOR FILE NO.	12.	тот	AL S	SAMPI	LES	ISTURBED U	INDISTURBEI 0) (UD)	
Corps of Er 4. NAME OF DRIL		S-CESAJ	i		12	тот	<u> </u>		ER CORE BOXES	0	0		-
L. Gaughf										-			-
5. DIRECTION OF	BORING	3	DEG. FROM VERTICAL	BEARING	14.	ELEV		ION G	ROUND WATER	N/A STARTED	COMPLET	-0	_
			 		15.	DATI	Е ВС	ORING	3	07-26-06	07-26-		
6. THICKNESS OF	OVERB	URDEN	N/A		16.	ELE\		ION T	OP OF BORING	-41.7 Ft.	1		1
7. DEPTH DRILLE			I/A		17.	тот	AL R	RECO	VERY FOR BORING	Not Recorde	d		
			<u> </u>		18.	SIGN	ΙΑΤΙ	JRE A	AND TITLE OF INSP	ECTOR			
8. TOTAL DEPTH	OF BOR	ING 5.8	Ft.			,							
ELEV. DEPTH	LEGEND	CLA	ASSIFICATION	OF MATERIALS	RÉ	č.	BOX OR SAMPLE	ROD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE	
44.7 0.0	1 1					\top			44.7				1
-41.7 0.0	┼┄┼			nostly fine-grained	-+	+			-41.7				╉
-		sand-sized	d quartz, trace	e medium-grained 1 greenish gray									ŀ
F		(SP)		r greenisir gray									F
F													F
E.													È
E							1						E
-					l _N	IR	·			Vibracore			ŀ
F													F
F													F
F													F
-46.7 5.0													ŧ
+0.1 5.0		SAND, silt	y, mostly fine	-grained sand-sized	-	⊢	_						F
-47.5 5.8		quartz, littl	e silt, trace m	edium-grained '1 dark greenish gra	v				-47.5				F
-		\(SM)			<u>'</u> /[Abbreviations:				F
Ē		NOTES:							NR = Not Re	corded.			F
-		1. USACE these origi		is the custodian for									F
F		2 Soils ar	re field visuall	y classified in									F
-		accordanc	e with the Un ion System.	ified Soils									-
		3. Elevatio	on based on p	predicted tide									F
F		4. Laborat	tory Testing F	Results									F
-		SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION									F
		1	0.0/5.0	SP*									F
E .		*Lah vieua	I classification	n based on gradation	n								F
Ł			Atterberg lim		"								F
F			-										F
F													F
F													E
F													
-													F
													-

						ng Designation	VB-SJSP06	-38	
DRILLING	LOG	DIVISION South Atlantic				District		SHEET 1 OF 2 SH	IFFTO
1. PROJECT		South Atlantic			-		Remarks	OF 2 SF	IEEIS
St. Johns C	County,	FL SPP				E SYSTEM/DATUM	HORIZONTAL	VERTICAL	
Borrow Are	a			State	e Plar	ne, FLE (U.S. Ft.)	NAD83	MLW	
2. BORING DESIG			11. M				<i>`'</i>	АИТО НАММ	
VB-SJSP06		X = 575,990 Y = 2,104,167 CONTRACTOR FILE NO.		Alpir	ne 27	0 Vibracore on D/B		MANUAL HAN	
Corps of Er		1	12. TO	DTAL	SAMP	LES	3	0	()
4. NAME OF DRILL	LER		13. T	DTAL	NUMB	BER CORE BOXES	0		
L. Gaughf 5. DIRECTION OF	BODING	DEG. FROM BEARING	14. EI	EVAT		GROUND WATER	N/A		
	Donne	VERTICAL	15. D		ORINO	G	STARTED	COMPLETE	
		i					07-26-06	07-26-0	06
6. THICKNESS OF	OVERB	urden N/A					-43.4 Ft.		
7. DEPTH DRILLEI	D INTO	ROCK N/A				VERY FOR BORING	Not Recorde	d	
8. TOTAL DEPTH	OF BOR	ING 8.4 Ft.	- 18. SI	GNAI	URE A	AND TITLE OF INSPE	CTOR		
ELEV. DEPTH	EGEND	CLASSIFICATION OF MATERIALS	RÉC	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE
<u> </u>	╉┛╂			- m o				ш	2
-43.4 0.0	$\left \ldots \right $	SAND, poorly-graded, mostly fine-grained			┨	-43.4			
Ę		sand-sized quartz, 10YR 7/2 light gray (SP))						
Ŀ									
E									
Ł									
-45.7 2.3	ł∵ŀ	-SAND, poorly-graded, mostly fine-grained	NR	1			Vibrocoro		
F		sand-sized quartz, 10Y 5/1 greenish gray					Vibracore		
-46.8 - 3.4		(SP)							
F		-SAND, poorly-graded, mostly fine-grained sand-sized quartz, 10Y 5/1 greenish gray							
, F.		(SP)							
-48.0 - 4.6 -		SAND, poorly-graded with silt, mostly			1	-48.4			
F		fine-grained sand-sized quartz, few silt, 10Y 4/1 dark greenish gray (SP-SM)							
È		for 47 dank greenish gray (or eivi)		2					
<u> </u>		At El49.3 Ft., some fine-grained	NR				Vibracore		
-50.2 6.8		sand-sized quartz, some sand to gravel-sized shell up to 3/4", few silt,			1	50.4			
F	$\left \cdots \right $	10Y 6/1 greenish gray SAND, poorly-graded, mostly fine-grained	_/	\vdash	1	-50.4			
F	⊡	sand-sized quartz, 10YR 6/2 light brownish	NR	3	1		Vibracore		
₅₁ ₀ F ₀ ₄	∷ .	gray (SP)		\vdash	-	51 9			
<u>-51.8 - 8.4</u>	$\left\{ \begin{array}{c} \cdot \cdot \cdot \\ \cdot \end{array} \right\}$			-	-	-51.8			
F		NOTES:				Abbreviations: NR = Not Rec	orded.		
		1. USACE Jacksonville is the custodian for these original files.							
		2. Soils are field visually classified in accordance with the Unified Soils Classification System.							
ŀ		3. Elevation based on predicted tide							
F		4. Laboratory Testing Results							
Ę		SAMPLE SAMPLE LABORATORY ID DEPTH CLASSIFICATION							
⊢				1	1				
 - -		1 0.0/4.5 SD SN/*							
		1 0.0/4.5 SP-SM* 2 5.0/6.5 SM*							

DRILLING LOG (Cont. Sheet)				INSTALLA	TION	_		5 - 00.			SHEET	2		1
DRIL	Jackso		Distr	ict				OF 2		ETS				
PROJECT				COORDIN				UM	HORIZONTAL	VE	RTICAL			1
	nns Count	y, FL	SPP	State F					NAD83		MLW			
LOCATION				ELEVATIO										1
X = 575	5,990	Y = 2	,104,167	-43.4 F										
	DEPTH	LEGEND	CLASSIFICATION OF MATERIA	ALS	REC.	BOX OR SAMPLE	RQD OR UD		REMARK	5	BLOWS/	1 FT.	N-VALUE	
			curve. No Atterberg limits.											

St. Johns County, FL SPP 10 Johns County, FL SPP 10 Johns County, FL SPP Borrow Area 10 State Plane, FLE (U.S. FL) NADB3 MLW Borrow Area State Plane, FLE (U.S. FL) NADB3 MLW Borrow Area 10 State Plane, FLE (U.S. FL) NADB3 MLW Borrow Area 10 Intervers Desticination of Poilt. Auto Hammer VB-SUSP06-39 X = 581.087 Y = 2.107.893 11 MANUFACTUREPS DESIGNATION of Poilt. Auto Hammer Corps of Engineers - CESAJ CONTRACTOR FILE NO. 10 Intervers DESIGNATION (UDD) Intervers DESIGNATION (UDD) Intervers DESIGNATION (UDD) Intervers DESIGNATION (UDD) Corps of Engineers - CESAJ CONTRACTOR FILE NO. 13. TOTAL NUMBER CORE BOXES 0 Intervers DESIGNATION (UDD) Intervers					E	Borin	ng Designation V	B-SJSP06-	39	
PROJECT Jobas With Distinct St. Johns County, FL SPP Is. Johns County, FL SPP Borrow Area 10. Coordinate systemation VB JSDP00 X = 501,007 V = 2,107,893 VB JSDP00 X = 501,007 V = 2,107,893 Maximum Line Designation Locarinon coordinates VB JSDP00 X = 501,007 V = 2,107,893 Maximum Line Designation Locarinon coordinates VB JSDP00 X = 501,007 V = 2,107,893 Maximum Line Designation Locarinon coordinates UB JSDP00 Sample Status UB JSDP00 JSDP00 UB JSDP00	DRILLING	LOG					Notriot			
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EDEMOND DISIGNATION UPS-LISPO-53 LOCATION COORDINATES UPS-LISPO-53 I. MANUFACTURETS UPS-LISPO-53 I. MANUFACTURETS UPS-LISPO-53 MANUEL NAMMER UPS-LISPO-53 MANUEL NAMMER UPS-LISPO										
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Comps of Engineers - CESAJ 12. TOTAL SAMPLES 2 0 MARE OF DRILLER 13. TOTAL MUMMER CORE BOXES 0 DIRECTION OF EXDENSE DEC. FROM 12. TOTAL MUMMER CORE BOXES 0 DIRECTION OF EXDENSE DEC. FROM 14. ELEVATION COND WATER N/A Immunee NA 15. DATE BORING 07.26-06 07.26-06 THICKNESS OF OVERBURDEN N/A 16. ELEVATION TOP OF BORING -44.2 FL TOTAL DEPTH OF BORING 16.0 FL 18. SIGNATURE AND TITLE OF INSPECTOR TOTAL DEPTH OF BORING 16.0 FL 18. SIGNATURE AND TITLE OF INSPECTOR 442 0.0 SAND, poorly-graded, mostly fine-grained sand-sized quart, fitte sand to grave-sized shell, or 3/4*, 10YR 6/2 light brownish gray (SP) -44.2 442 0.0 SAND, poorly-graded, mostly fine-grained sand-sized quart, fitte sand to grave-sized shell, or 3/4*, 10YR 6/2 light brownish gray (SP) -44.2 442 0.0 SAND, poorly-graded, mostly fine-grained sand-sized quart, fitte sand to grave-sized shell, SOY 4* 4* 4* (SP) -44.2 47.2 3.0 SAND, poorly-graded, mostly fine-grained sand-sized quart, fitte sand sized shell, SOY 4* 4* (SP) -49.2 47.2 3.0 SAND, poorly-graded, mostly fine-grained sand-sized quart, fitte sand sized shell, SOY 4* 4* (A* greenish gray (SP) -49.2 47.2 3.0 SAND, poorly-graded, m	VB-SJSP06	6-39	X = 581,087 Y = 2,107,893		Alpir	ne 27	0 Vibracore on D/B Sr			
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L Gaught 12. ToTAL Number Course Dotts 0 Differmion of boning Include Dec. FROM Ventical EEGENING Ventical 15. DATE BORING 07-26-06 Thickness of overseuropen Include N/A 16. ELEVATION TOP OF BORING -44.2 FL TOTAL DEPTH OF BORING 16.0 FL TOTAL DEPTH OF BORING 16.0 FL LEW TOTAL DEPTH OF BORING 16.0 FL LEW CLASSIFICATION OF MATERIALS REC. Add 2 0 SAND, poorly-graded, mostly fine-grained and sized quartz, filte sand to grave-sized shell up to 3/4*, 10VR 6/2 light brownish gray (SP) -44.2 47.2 3.0 SAND, poorly-graded, mostly fine-grained and sized quartz, filte sand sized quartz, file sand sized quartz, file sand sized sand sized shell, SG 6 F 4.4 43.2 5.0 5.5 7.3 CLAY file, high plastichy, few fine-grained sand-sized quartz, file sand sized shell, SG 8 FU dir, greenish gray (SP) 5.1 5.7.3 CLAY file, high plastichy, few fine-grained sand-sized quartz, time sand to grave-sized shell up to 3/8*, TOY 6/1 greenish gray (SP) SAND, poorly-graded, mostly fine-grained sand-sized quartz, time sand to grave-sized shell up to 3/8*, TOY 6/1 greenish gray (SP) SAND, poorly-graded with silt, some fine-grained sand-size		0	- CESAJ				2		0	
IDRECTON OF BORING		LER		13. T	OTAL	NUME	BER CORE BOXES ()			
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47.2 3.0 SAND, poorly-graded, mostly fine-grained sand-sized quartz, few sand to gravel-sized shell up to 3/8", 10Y 6/1 greenish gray (SP) -49.2 49.2 5.0 SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, few medium to coarse-grained sand-sized sand-sized shell, 5GY 4/1 dark greenish gray (SP) 2 50.6 6.4 CAY, fat, high plasticity, few fine-grained sand-sized shell, 5GY 4/1 dark greenish gray (SP) 2 51.5 7.3 CAY, fat, high plasticity, mostly fine-grained sand-sized quartz, little day, trace medium-grained sand-sized quartz, little day, trace medium-grained sand-sized quartz, little sand to gravel-sized shell, 5G 4/1 dark greenish gray (SC) NR 52.3 8.1 SAND, poorly-graded, mostly fine-grained sand-sized quartz, little day, trace medium-grained sand-sized quartz, little sand to gravel-sized shell, 5G 4/1 dark greenish gray (SC) NR 52.3 8.1 SAND, poorly-graded, mostly fine-grained sand-sized quartz, little sand to gravel-sized shell, to 5/8, 100 6/1 greenish gray (SC) NR 57.2 13.0 At EL -55.6 FL, mostly fine-grained sand-sized quartz, trace medium-grained sand-sized quartz, some sand to gravel-sized shell, 10Y 5/1 gree	_	.								
 49.2 5.0 49.2 5.0 49.2 5.0 5.0 5.0 5.1 5.0 5.1 5.1 5.2 5.2 5.2 5.3 5.4 5.5 5.5 5.4 5.4 5.5 5.4 5.5 5.5 5.6 5.6 5.7 5.7 5.8 5.9 5.0 5.0 5.0 5.1 5.1 5.2 5.2 5.2 5.3 5.4 5.4 5.4 5.4 5.4 5.5 5.4 5.5 5.4 5.4 5.5 5.4 5.4 5.5 5.5<td>F</td><td></td><td></td><td>NF</td><td>1</td><td></td><td></td><td>Vibracore</td><td></td><td></td>	F			NF	1			Vibracore		
49.2 5.0 49.2 5.0 49.2 5.0 49.2 5.0 49.2 5.0 5AND, poorly-graded, mostly fine to medium to carse-grained sand-sized shell, 5GV 4/1 dark greenish gray (SP) 50.6 6.4 5GV 4/1 dark greenish gray (SP) 51.5 7.3 5AND, clavey, low plasticity, mostly fine-grained sand-sized quartz, title clay, trace medium-grained sand-sized shell, 5CV 4/1 dark greenish gray (SC) 52.3 -8.1 53ND, clavey, low plasticity, mostly fine-grained sand-sized quartz, title clay, trace medium-grained sand-sized quartz, title clay, trace medium-grained sand-sized quartz, title sand to gravel-sized shell up to 3/6", 10G 6/1 greenish gray to the sand-sized quartz, title sand to gravel-sized shell up to 3/6", 10G 6/1 greenish gray to the sand-sized quartz, title sand to gravel-sized shell up to 3/6", 10G 6/1 greenish gray to the sand-sized quartz, trace medium-grained sand-sized shell, to Y 6/1 greenish gray (SP-SM)	-47.2 3.0	l∷r	CAND search and deal as athe first survived							
49.2 5.0 SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, few medium to coarse-grained sand-sized shell, 50.6 6.4 SV 4/1 dark greenish gray (SP) CLAY, fat, high plasticity, few fine-grained sand-sized quartz, trace medium-grained sand-sized shell, 5G 4/1 dark greenish gray (CH) 52.3 8.1 SAND, clayey, low plasticity, mostly ince-grained sand-sized shell, 5G 4/1 dark greenish gray (SC) SAND, clayey, low plasticity fine-grained sand-sized quartz, little clay, trace medium-grained sand-sized shell, 5G 4/1 dark greenish gray (SP) SAND, clayey, low plasticity, mostly ince-grained sand-sized quartz, little clay, trace medium-grained sand-sized quartz, little clay, trace medium-grained sand-sized quartz, little clay, trace medium-grained sand-sized quartz, 10Y 5/1 greenish gray SP) At EL -55.6 Ft, mostly fine-grained sand-sized quartz, trace medium-grained sand-sized shell, 10YR 6/1 gray trace medium-grained sand-sized shell, 10YR 6/1 gray trace medium-grained sand-sized shell, 10YR 6/1 gray trace medium-grained sand-sized quartz, some sand fine-grained sand-sized quartz, some sand to gravel-sized shell up to 3/4", few silt, 10Y 5/1 greenish gray (SP-SM)	E		sand-sized quartz, few sand to gravel-sized							
SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, few medium to coarse-grained sand-sized shell, 5GY 4/1 dark greenish gray (SP) CLAY, fat, high plasticity, few fine-grained sand-sized quartz, trace medium-grained sand-sized shell, 5G 4/1 dark greenish gray (CH) SAND, clayey, low plasticity, mostly fine-grained sand-sized quartz, little clay, trace medium-grained sand-sized shell, 5G 4/1 dark greenish gray (SC) SAND, poorly-graded, mostly fine-grained sand-sized quartz, 10T 5/1 greenish gray (SP) - At EL -53.6 Ft., mostly fine-grained sand-sized quartz, trace medium-grained sand-sized shell, 10YR 6/1 gray 	F									-
SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, few medium to coarse-grained sand-sized shell, 5GY 4/1 dark greenish gray (SP) CLAY, fat, high plasticity, few fine-grained sand-sized quartz, trace medium-grained sand-sized shell, 5G 4/1 dark greenish gray (CH) SAND, clayey, low plasticity, mostly fine-grained sand-sized quartz, little clay, trace medium-grained sand-sized shell, 5G 4/1 dark greenish gray (SC) SAND, poorly-graded, mostly fine-grained sand-sized quartz, 10T 5/1 greenish gray (SP) - At EL -53.6 Ft., mostly fine-grained sand-sized quartz, trace medium-grained sand-sized shell, 10YR 6/1 gray 	F									
SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, few medium to coarse-grained sand-sized shell, 5GY 4/1 dark greenish gray (SP) CLAY, fat, high plasticity, few fine-grained sand-sized quartz, trace medium-grained sand-sized shell, 5G 4/1 dark greenish gray (CH) SAND, clayey, low plasticity, mostly fine-grained sand-sized quartz, little clay, trace medium-grained sand-sized shell, 5G 4/1 dark greenish gray (SC) SAND, poorly-graded, mostly fine-grained sand-sized quartz, 10T 5/1 greenish gray (SP) - At EL -53.6 Ft., mostly fine-grained sand-sized quartz, trace medium-grained sand-sized shell, 10YR 6/1 gray 	40.2 5.0						40.2			
 medium to coarse-grained sand-sized shell, 5GY 4/1 dark greenish gray (SP) CLAY, fat, high plasticity, few fine-grained sand-sized quartz, trace medium-grained sand-sized shell, 5G 4/1 dark greenish gray (CH) SAND, clayey, low plasticity, mostly fine-grained sand-sized quartz, little clay, trace medium-grained sand-sized quartz, little clay, trace medium-grained sand-sized quartz, little clay, trace medium-grained sand-sized quartz, little sand to gravel-sized sand-sized quartz, trace medium-grained sand-sized quartz, some sand to gravel-sized shell, 10YR 6/1 gray SAND, poorly-graded with silt, some fine-grained sand-sized quartz, some sand to gravel-sized shell up to 3/4", few silt, 10Y 5/1 greenish gray (SP-SM) 	-49.2 5.0	t∷Ւ	SAND, poorly-graded, mostly fine to		+	1	-49.2			
50.6 6.4 5GY 4/1 dark greenish gray (SP) -50.6 6.4 CLAY, fat, high plasticity, few fine-grained sand-sized quartz, trace medium-grained sand-sized quartz, trace medium-grained sand-sized quartz, little clay, fine-grained sand-sized quartz, little sand to gravel-sized shell, 5G 4/1 dark greenish gray (SC) NR 52.3 -8.1 SAND, clayey, low plasticity, mostly fine-grained sand-sized quartz, little clay, frace medium-grained sand-sized quartz, little sand to gravel-sized shell, 5G 4/1 dark greenish gray (SP) NR SAND, poorly-graded, mostly fine-grained sand-sized quartz, little sand to gravel-sized shell up to 3/8*, 10G 6/1 greenish gray NR At EI55.6 Ft., mostly fine-grained sand-sized quartz, trace medium-grained sand-sized shell, 10YR 6/1 gray At EI55.6 Ft., mostly fine-grained sand-sized quartz, some sand to gravel-sized shell up to 3/4*, few silt, 10Y 5/1 greenish gray (SP-SM)	-				2					-
-50.6 6.4 CLAY, fat, high plasticity, few fine-grained sand-sized quartz, trace medium-grained sand-sized quartz, trace medium-grained sand-sized quartz, trace medium-grained sand-sized quartz, little clay, fine-grained sand-sized quartz, little clay, fine-grained sand-sized quartz, little clay, fine-grained sand-sized quartz, 10Y 5/1 greenish gray -52.3 8.1 SAND, clayey, low plasticity, mostly fine-grained sand-sized quartz, little clay, fine-grained sand-sized quartz, 10Y 5/1 greenish gray NR -52.3 8.1 SAND, poorly-graded, mostly fine-grained sand-sized quartz, 10Y 5/1 greenish gray NR - SAND, poorly-graded mostly fine-grained sand-sized quartz, trace medium-grained sand-sized quartz, some sand to gravel-sized shell, 10YR 6/1 gray -57.2 13.0	-					4				
 sand-sized quartz, trace medium-grained sand-sized shell, 5G 4/1 dark greenish gray (CH) SAND, clayey, low plasticity, mostly fine-grained sand-sized quartz, little clay, trace medium-grained sand-sized shell, 5G 4/1 dark greenish gray (SC) SAND, poorly-graded, mostly fine-grained sand-sized quartz, 10Y 5/1 greenish gray (SP) At EL55.6 Ft., mostly fine-grained sand-sized quartz, little sand to gravel-sized shell, sand-sized quartz, trace medium-grained sand-sized quartz, trace medium-grained sand-sized quartz, trace medium-grained sand-sized quartz, 10Y 5/1 greenish gray At EL55.6 Ft., mostly fine-grained sand-sized quartz, trace medium-grained sand-sized quartz, trace medium-grained sand-sized quartz, trace medium-grained sand-sized quartz, some sand to gravel-sized shell up to 3/4", few silt, 10Y 5/1 greenish gray (SP-SM) 	-50.6 - 6.4	1								
-52.3 -8.1 SAND, clayey, low plasticity, mostly fine-grained sand-sized quartz, little clay, trace medium-grained sand-sized shell, SAND, poorly-graded, mostly fine-grained sand-sized quartz, 10Y 5/1 greenish gray (SP) At EL -53.8 Ft., mostly fine-grained sand-sized quartz, little sand to gravel-sized shell up to 3/8", 10G 6/1 greenish gray At EL -55.6 Ft., mostly fine-grained sand-sized quartz, trace medium-grained sand-sized quartz, trace medium-grained SAND, poorly-graded with silt, some fine-grained sand-sized quartz, some sand to gravel-sized shell up to 3/4", few silt, 10Y 5/1 greenish gray (SP-SM)	ŀ									
-52.3 -8.1 SAND, clayey, low plasticity, mostly fine-grained sand-sized quartz, little clay, trace medium-grained sand-sized shell, 5G 4/1 dark greenish gray (SC)	-51.5 7.3			٨		1				
-52.3 -8.1 7272 fine-grained sand-sized quartz, little clay, trace medium-grained sand-sized shell, 5G 4/1 dark greenish gray (SC) -	È			-/		1				
	-52.3 - 8.1		fine-grained sand-sized quartz, little clay,	h						
SAND, poorly-graded, mostly fine-grained sand-sized quartz, 10Y 5/1 greenish gray (SP) At EL -53.8 Ft., mostly fine-grained sand-sized quartz, little sand to gravel-sized shell up to 3/8", 10G 6/1 greenish gray At EL -55.6 Ft., mostly fine-grained sand-sized quartz, trace medium-grained	ŀ			/						
 Sand-sized quartz, 10Y 5/1 greenish gray At EL -53.8 Ft., mostly fine-grained Sand-sized quartz, little sand to gravel-sized Sand-sized quartz, little sand to gravel-sized Sand-sized quartz, trace medium-grained Sand-sized quartz, some sand Sand-sized shell up to 3/4", few silt, 10Y 5/1 greenish gray (SP-SM) 	F			- -		1				
 At Él53.8 Ft., mostly fine-grained sand-sized quartz, little sand to gravel-sized shell up to 3/8", 10G 6/1 greenish gray At El55.6 Ft., mostly fine-grained sand-sized quartz, trace medium-grained sand-sized shell, 10YR 6/1 gray -57.2 13.0 SAND, poorly-graded with silt, some fine-grained sand-sized quartz, some sand to gravel-sized shell up to 3/4", few silt, 10Y 5/1 greenish gray (SP-SM) 	Ę		sand-sized quartz, 10Y 5/1 greenish gray							[
	ŀ							\/ikaa		
-57.2 13.0 SAND, poorly-graded with silt, some fine-grained sand-sized quartz, some sand to gravel-sized shell up to 3/4", few silt, 10Y 5/1 greenish gray (SP-SM)	F		sand-sized quartz, little sand to gravel-sized	INF	`	1		vibracore		
-57.2 13.0 SAND, poorly-graded with silt, some fine-grained sand-sized quartz, some sand to gravel-sized shell up to 3/4", few silt, 10Y 5/1 greenish gray (SP-SM)	È		shell up to 3/8", 10G 6/1 greenish gray			1				[
-57.2 13.0 SAND, poorly-graded with silt, some fine-grained sand-sized quartz, some sand to gravel-sized shell up to 3/4", few silt, 10Y 5/1 greenish gray (SP-SM)	F									
-57.2 13.0 SAND, poorly-graded with silt, some fine-grained sand-sized quartz, some sand to gravel-sized shell up to 3/4", few silt, 10Y 5/1 greenish gray (SP-SM)	F	$ \cdots $	At El55.6 Ft., mostly fine-grained			1				[
-57.2 13.0 SAND, poorly-graded with silt, some fine-grained sand-sized quartz, some sand to gravel-sized shell up to 3/4", few silt, 10Y 5/1 greenish gray (SP-SM)	È.	$ \cdot \cdot \cdot $	sand-sized quartz, trace medium-grained			1				
SAND, poorly-graded with silt, some fine-grained sand-sized quartz, some sand to gravel-sized shell up to 3/4", few silt, 10Y 5/1 greenish gray (SP-SM)	Ł		sand-sized shell, 10YR 6/1 gray							
SAND, poorly-graded with silt, some fine-grained sand-sized quartz, some sand to gravel-sized shell up to 3/4", few silt, 10Y 5/1 greenish gray (SP-SM)	-57.2 13.0					1				
 fine-grained sand-sized quartz, some sand to gravel-sized shell up to 3/4", few silt, 10Y 5/1 greenish gray (SP-SM) 	-			\neg						[
- 10Ý 5/1 greenish gray (SP-SM)	ŀ		fine-grained sand-sized guartz, some sand			1				
	F		10 gravel-sized snell up to 3/4", few silt, 10Y 5/1 greenish grav (SP-SM)			1				
- ·.	Ł	 :-								
A.I FORM 1836 (Continued)	ŀ	 . 								
	AJ FORM 18	36					•	(Continued)		

DRILLING LOC (Cast Sheet)	INSTALLA	TION	_		g Designation VB-SJSP	SHEET 2	
DRILLING LOG (Cont. Sheet)	Jackso	OF 2 SHEET					
ROJECT St. Johns County, FL SPP	COORDINA State F				1 1	VERTICAL MLW	
OCATION COORDINATES	ELEVATIO				· · · ·		
X = 581,087 $Y = 2,107,893$	-44.2 F		0. 2		0		
ELEV. DEPTH	ALS	RÉC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE
-59.4 15.2 GRAVEL, poorly-graded, mostly sa gravel-sized limestone up to 1", so fine-grained sand-sized quartz, 10	me	NR			-60.2		
Loss 1.11 Inte-grained sand-sized quartz, to greenish gray (GP) NOTES: 1. USACE Jacksonville is the cust these original files. 2. Soils are field visually classified accordance with the Unified Soils Classification System. 3. Elevation based on predicted tid 3. Elevation based on predicted tid 4. Laboratory Testing Results SAMPLE SAMPLE 1 0.0/5.0 2 5.0/6.0 2 5.0/6.0 *Lab visual classification based on curve. No Atterberg limits.	odian for l in de ATORY ICATION				Abbreviations: NR = Not Recorded.		

				I	Borin	ng Designation	VB-SJSP06	-4	
DRILLING I	06	DIVISION		ALLATI	ION			SHEET 1	
	_00	South Atlantic				District		OF 2 SH	IEETS
. PROJECT	_						Remarks	·	
St. Johns Co		LSPP	10.			E SYSTEM/DATUM	HORIZONTAL	VERTICAL	
Borrow Area		LOCATION COORDINATES	11			ne, FLE (U.S. Ft.)		MLW	
VB-SJSP06-		X = 579,096 $Y = 2,016,318$	111.			0 Vibracore on D/l	· 🗆	AUTO HAMME MANUAL HAN	
. DRILLING AGEN						¦ D		NDISTURBED	
Corps of Eng	gineers	- CESAJ	12.	FOTAL	SAMP	PLES	0	0	
. NAME OF DRILL	ER	·	13.	TOTAL	NUME	BER CORE BOXES	0		
L. Gaughf			14			GROUND WATER	N/A		
DIRECTION OF B VERTICAL	ORING	DEG. FROM BEARING VERTICAL	-				STARTED	COMPLETE	ED
			15.	DATE E	BORING	G	06-14-06	06-14-0	
. THICKNESS OF	OVERBU	irden N/A	16.	ELEVA	TION 1	TOP OF BORING	-33.6 Ft.		
		· · · · · · · · · · · · · · · · · · ·				VERY FOR BORING			
. DEPTH DRILLED	INTO R	οcκ N/A				AND TITLE OF INSP			
. TOTAL DEPTH O	F BORIN	vg 16.0 Ft.		,					
ELEV. DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	RÉ	BOX OR	ROD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE
22.6 0.0						22.6			
-33.6 0.0		SAND, silty, mostly fine-grained sand-sized		-	-	-33.6			
- F		quartz, little silt, trace medium-grained			1				
-34.6 1.0		sand-sized shell, 10Y 4/1 dark greenish gra (SM)	^y /			1			1
E I		CLAY, fat, medium plasticity, little	-/		1				
F	f f	fine-grained sand-sized quartz. 10Y 3/1 ver	у			1			1
-		dark greenish gray (CH)				1			1
F I						1			1
						1			1
F I						1			1
F F						1			1
F						1			1
					1				
-									
Ł									
F									
-									
F I					1				
E I					1		Vibroacra		
F			10	۷I		1	Vibracore		1
						1			1
F						1			1
						1			1
-					1				
Ę I						1			1
		At El43.6 Ft., some fine-grained				1			1
F I		sand-sized quartz, trace medium-grained			1				
- F	// •	sand-sized shell, 10Y 3/1 very dark greenis	sh 🛛		1				
F I		gray			1				
					1				
F I					1				
					1				
F I					1				
- F					1				
L I					1				
					1				
F I			1	1	1	1			1
E I			1						

5AJ FORM 1836 JUN 02

DR	ILLING	LOC	G (Cont. Sheet)	INSTALL Jacks				<u> </u>			SHEET	2 SHEET	
PROJEC			-									JUEL	-
	ohns Coun	+, EI	SDD	COORDIN State					HORIZONTAL NAD83		r tical MLW		
				1					I NADOS	! !			_
	on coordi 579,096			ELEVATI -33.6		OF E	SORIN	G					
× = .	579,090		,010,318	-55.0	T.	~						ш	-
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIA	LS	RÉC.	BOX OR SAMPLE	RQD OR UD		REMARKS		BLOWS/	1 FT. N-VALUE	
-49.6	16.0				100			-49.6	Vibracore	1			
-49.0			NOTES: 1. USACE Jacksonville is the custo these original files. 2. Soils are field visually classified accordance with the Unified Soils Classification System. 3. Elevation based on predicted tic	in				-49.0					

									g Designation	VB-SJSP0		
DRILLING	LOG	DIVISIO				INSTAL			liatriat		SHEET	
I. PROJECT		Sout	th Atlantic						istrict	Pomorko	OF 1 5	HEETS
St. Johns (SYSTEM/DATUM	Remarks		
Borrow Are									ne, FLE (U.S. Ft.)		MLW	-
2. BORING DESIG			LOCATION	COORD	INATES	11. M			RER'S DESIGNATIO			/IER
VB-SJSP0	6-40		X = 580.	,677	Y = 2,113,446		Alpir	ne 27	0 Vibracore on D/	B Snell	MANUAL HA	
3. DRILLING AGE				CONT	RACTOR FILE NO.	12. TO		SAMP		i	UNDISTURB	ED (UD)
Corps of E NAME OF DRIL	0	- CESAJ								2	0	
L. Gaughf	LER					13. TC	TAL	NUMB	ER CORE BOXES	0		
5. DIRECTION OF	BORING		DEG. FRO	M	BEARING	14. EL	EVAT		ROUND WATER	N/A		
			VERTICAL	L		15. DA		ORING	3	STARTED	COMPLE	
			<u> </u>		!					07-26-06	07-26	-06
5. THICKNESS OF	FOVERB	JRDEN	N/A			├ ──			OP OF BORING	-38.0 Ft.		
7. DEPTH DRILLE		юск М	N/A			L			VERY FOR BORING		led	
B. TOTAL DEPTH	OF BORI	NG 8.	3 Ft.			18. SI	GNAT	URE A	AND TITLE OF INSP	ECTOR		
							,	1				ш
ELEV. DEPTH	LEGEND	CL	ASSIFICATI	ION OF	MATERIALS	RÉC.	BOX OR SAMPLE	ROD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE
28.0									28.0			
-38.0 0.0	<u></u>	SAND, pc	oorly-grade	d, mos	tly fine-grained		\vdash		-38.0			-
F		sand-size	ed quartz, s	ome sa	and to							
-			ed shell up									
Ę			5 - 7		- /							
E							1					
F						NR				Vibracore		
-40.9 - 2.9												
	יו∴ר	SAND, pc	oorly-grade	d, mos	tly fine-grained							
-		sand-size	d quartz, tr	race me Y 7/1 li	edium-grained ght greenish gray	,						
-42.3 4.3		(SP)			g g g,			4				
-42.3 4.3			oorly-grade					4	-42.5			
<u>-</u>			grained san ravel-sized		d quartz, little							
-			lark greenis									
F												
F							2					
Ł	·.·.					NR	—			Vibracore		
F	[⊡]											
F												
	[⊡]							1	10.0			
-46.3 8.3	$+\cdot\cdot$					_	-	-	-46.3			
F		NOTES:							Abbreviations:	cordod		
F			F. Jackson	ville ie t	the custodian for				NR = Not Re	coldea.		
Ę		these orig										
F		2 Soile a	are field visi	ually d	assified in							
F		accordance	ce with the	Unified								
F		Classifica	ation System	n.								
E		3. Elevat	ion based o	on pred	dicted tide							
ŀ												
F		4. Labora	atory Testin	ig Resi	UIIS							
Ę		SAMPLE	SAMPI		LABORATORY							
F		ID	DEPT	н С	LASSIFICATION							
F		1	0.0/4.		SP*							
F		2	4.5/8.	.0	SP*							
-									1			1
Ē		*Lab visua	al classifica	ation ba	ased on gradatior	n						

SAJ FORM 1836 JUN 02

						E	Borin	g Designation VB-SJSP06	-43	
DRILLI	NG	LOG	DIVISION	ľ	ISTAL			liatriat	SHEET 1	
1. PROJECT			South Atlantic				-	istrict E OF BIT See Remarks	OF 2 SH	ILLIS
	nns Co	ountv	FL SPP					SYSTEM/DATUM HORIZONTAL	VERTICAL	
Borrov						State	e Plar	ne, FLE (U.S. Ft.) NAD83	MLW	
2. BORING D			N LOCATION COORDINATES	1	1. M					ER
VB-SJ			X = 587,055 Y = 2,057,76			Alpir	ne 27		MANUAL HAN	
3. DRILLING			CONTRACTOR FILE	NO.	2. то	TAL	SAMP	IFS) (UD)
4. NAME OF			rs - CESAJ		<u>а т</u>				0	
L. Gau							-	BER CORE BOXES ()		
5. DIRECTIO	N OF E	BORIN	G DEG. FROM BEARING		4. EL	EVAT		GROUND WATER N/A		
			VERTICAL	1	5. DA	TE B	ORING	G STARTED 06-15-06	СОМРLЕТЕ 06-15-0	
6. THICKNES			BURDEN N/A		4 EI	EVAT		TOP OF BORING -52.2 Ft.	00-10-0	
0. THICKNES	55 UF	OVER	SURDEN IN/A						.d	
7. DEPTH DR	RILLED	ο ιντο	ROCK N/A					VERY FOR BORING Not Recorde	u	
8. TOTAL DE	ертн с	of Bor	RING 8.0 Ft.		0. 01		0.027			
ELEV. DEI	РТН	EGEND	CLASSIFICATION OF MATERIALS		REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE
		Ē				SAC			BL	2-Z
-52.2 0.0	_	ΙĪ		_				-52.2]
			SAND, poorly-graded, mostly fine-graine		1					
E		$ \cdots $	sand-sized quartz, trace medium-grained sand-sized shell, 10YR 6/2 light brownish							
- F		$\left[\cdot \cdot \cdot \right]$	gray (SP)							
F										
E_		·.·.								
-54.7 2.5						1				
-			SAND, poorly-graded, mostly fine-grained sand-sized quartz, trace medium-grained	d I		'		\/ibrocoro		
F		$\left[\cdot \cdot \cdot \right]$	sand-sized shell, 10Y 5/1 greenish gray	•	NR			Vibracore		
Ę		.:.:	(SP)							
F										
ŀ										
F		$ \cdots $					-			
F										
E.		$ \cdots $						-58.2		
root or		<u> </u> :∵:								
-58.9 - 6.7		ł∷ł	SAND, poorly-graded, mostly fine-graine	d	NR					
-59.5 7.3		l l	sand-sized quartz, little sand to gravel-siz	zed		2		Vibracore		
-60.2 8.0			shell up to 3/8", 10Y 5/1 greenish gray (SAND, poorly-graded, mostly fine-grained		1			-60.2		
		╞╌┝	sand-sized quartz, some sand to gravel-sized shell up to 3/4",	1	1					
Ł			SGY 5/1 greenish gray (SP)	/	1			Abbreviations: NR = Not Recorded.		
			NOTES:							
- - -			1. USACE Jacksonville is the custodian these original files.	for						
			2. Soils are field visually classified in accordance with the Unified Soils							
È			Classification System. 3. Elevation based on predicted tide							
Ł					1					
É			4. Laboratory Testing Results SAMPLE SAMPLE LABORATOR	Y						
Ē			ID DEPTH CLASSIFICATIO							
Ē			1 0.0/5.0 SP* 2 6.0/8.0 SP-SM*							
	1 4 0 4							(Continued)		
SAJ FORM	/1 183	50						(Conunded)		

DR	ILLING	LOC	G (Cont. Sheet)	INSTALLA Jackso				<u> </u>			SHEET OF 2		rs
PROJE				COORDIN				1154	HORIZONTAL	VE	RTICAL	OTTEE	
	Johns Coun	tv Fl	SPP	State					NAD83		MLW		
	ION COORDI			ELEVATIO					14.000				
	587,055			-52.2		0. 2		0					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIA		RÉC.	BOX OR	RQD OR UD		REMARKS	5	BLOWS/		
			*Lab visual classification based on curve. No Atterberg limits.	gradation									- 1: - 1

					Borir	ng Designation VB-SJSP06	6-47	
DRILLING	LOG	DIVISION	INSTA			Netrict	SHEET 1	EETO
1. PROJECT		South Atlantic				District E OF BIT See Remarks	OF 2 SH	IEEIS
St. Johns C	County.	FL SPP				SYSTEM/DATUM HORIZONTAL	VERTICAL	
Borrow Are				Stat	e Pla	ne, FLE (U.S. Ft.) NAD83	MLW	
2. BORING DESIG		LOCATION COORDINATES	11. N					R
VB-SJSP06		X = 581,123 Y = 2,085,051		Alpi	ne 27		MANUAL HAM	
 DRILLING AGEI Corps of Er 		CESA I	12. T	OTAL	SAMP	LES DISTURBED	UNDISTURBED) (UD)
4. NAME OF DRIL		S-CESAJ	12 T	ΟΤΑΙ		BER CORE BOXES ()	0	
L. Gaughf						· ·		
5. DIRECTION OF	BORING	BEG. FROM BEARING	14. E	LEVA		GROUND WATER N/A		-
VERTICAL			15. D	ATE B	ORIN	G STARTED 07-26-06	СОМРLЕТЕ 07-26-0	
6. THICKNESS OF	OVERB	urden N/A	16. F			FOP OF BORING -48.3 Ft.		<i>,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
						VERY FOR BORING Not Record	ed	
7. DEPTH DRILLE	D INTO I	ROCK N/A				AND TITLE OF INSPECTOR	cu	
8. TOTAL DEPTH	OF BOR	ING 7.7 Ft.		,				
ELEV. DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	RÉC	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/	N-VALUE
	+							_
-48.3 0.0	$+ \cdot \cdot +$	SAND, poorly-graded, mostly fine-grained		+		-48.3		├
F	[⊡]	sand-sized quartz, 10YR 6/3 pale brown						
-49.3 1.0	ł∷ł	(SP)						
E		-SAND, poorly-graded, mostly fine-grained sand-sized quartz, trace medium-grained	NR	1		Vibracore		
-		sand-sized shell, 10Y 5/1 greenish gray						
F		(SP)						
-51.2 - 2.9						-51.2		
-51.8 3.5		SAND, silty, mostly fine-grained sand-sized quartz, little silt, 5G 5/1 greenish gray (SM)		2				
-51.8 [3.5		CLAY, fat, high plasticity, little fine-grained	-		-			
- F		sand-sized quartz, 5BG 4/1 dark greenish						
F		gray (CH)						
Ē.								
Ę			NR	:		Vibracore		
-54.5 -6.2								
-54.5 0.2		SAND, clayey, low plasticity, mostly fine to						
F		medium-grained sand-sized quartz, little clay, 10Y 4/1 dark greenish gray (SC)						
-55.6 7.3		,, C C C , C	_					
-56.0 7.7	╀╫╫	SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, little sand to	,⊢	-	-	-56.0		
F	\	gravel-sized shell up to 3/8", few silt,	/			Abbreviations:		
Ł		10Y 6/1 greenish gray (SP-SM)	_ I د			NR = Not Recorded.		
F		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.						
Ę		3. Elevation based on predicted tide						
Ē		4. Laboratory Testing Results						
F F		SAMPLE SAMPLE LABORATORY ID DEPTH CLASSIFICATION						
		1 0.0/2.8 SP* 2 2.9/3.5 SP-SM*						
Ę		*Lab visual classification based on gradation						
	36				1	(Continued)		

		INSTALLATION			g Doolghadon			HEET	2	٦
DRILLING LOG	(Cont. Sheet)	Jacksonvill		ict					SHEETS	5
PROJECT		COORDINATE	SYSTEM	//DAT		ONTAL	VERTI	CAL		
St. Johns County, FL S	SPP	State Plane	e, FLE	(U.S.	Ft.) NA	D83	ML	W		
LOCATION COORDINATES		ELEVATION TO	OP OF B	ORIN	G					
X = 581,123 Y = 2,08	85,051	-48.3 Ft.								
ELEV. DEPTH	CLASSIFICATION OF MATERIAL	_S RÉG	DOX OR	ROD OR UD		REMARKS		BLOWS/ 1 FT.	N-VALUE	
	curve. No Atterberg limits.									

HEET 1 F 2 SHE ERTICAL MLW D HAMMER UAL HAMM STURBED (07-26-06 07-26-06	ER IMER (UD)
ERTICAL MLW D HAMMER UAL HAMM STURBED (DMPLETED 07-26-06	ER IMER I (UD)
MLW D HAMMER UAL HAMM STURBED (DMPLETED 07-26-06	IMER (UD)
MLW D HAMMER UAL HAMM STURBED (DMPLETED 07-26-06	IMER (UD)
D HAMMER UAL HAMM STURBED (DMPLETED 07-26-06	IMER (UD)
DMPLETED	IMER (UD)
07-26-06	2 D 06
07-26-06	06
07-26-06	06
07-26-06	06
07-26-06	06
BLOWS/ 1 FT.	-VALUE
BLOWS/	-VALUE
	ź
1	
	1

			G (Cont. Sheet)	INSTALLA				9 - 00.9		SHEET			1
				Jackso						OF 2	SHEE	ETS	
PROJEC		. –		COORDINA					HORIZONTAL	RTICAL			
	ohns Coun			State F					NAD83	MLW			
				ELEVATIO		OFE	ORIN	G					
X = 5	586,796		,105,254	-47.4 F	t.							1.1	
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIA	LS	RÉC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/		N-VALUE	
			4. Laboratory Testing Results										-15 -
			SAMPLE SAMPLE LABORA ID DEPTH CLASSIFIC	TORY CATION									- -
			1 0.0/3.9 SP ³	 r									-
			*Lab visual classification based on g curve. No Atterberg limits.	radation									 - -
													- - -
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													- 20
													- -
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							g Designation VB-SJSP06-49	9	
DRILLING	LOG	DIVISION	INST					SHEET 1	
1. PROJECT		South Atlantic	-				istrict CF BIT See Remarks	OF 2 SH	LETS
St. Johns C Borrow Area		L SPP		c00	RDI	NATE		/ertical MLW	
2. BORING DESIGN VB-SJSP06	6-49	LOCATION COORDINATES X = 562,306 Y = 2,116,044	11.) Vibracore on D/B Snell	TO HAMME NUAL HAM	MER
3. DRILLING AGEN Corps of En 4. NAME OF DRILL	gineers	- CESAJ				SAMP	L ES 2 0	ISTURBED	(UD)
L. Gaughf			13.	тот		NUMB	ER CORE BOXES ()		
5. DIRECTION OF I	BORING	DEG. FROM BEARING VERTICAL					ROUND WATER N/A	омрьете 07-26-0	
6. THICKNESS OF	OVERBU	i i i i i i i i i i i i i i i i i i i	16.	ELE	VAT	ION T	OP OF BORING -45.9 Ft.	07 20 0	0
7. DEPTH DRILLED		рск N/A	17.	тот	AL F	RECO	VERY FOR BORING Not Recorded		
8. TOTAL DEPTH (· · · · · · · · · · · · · · · · · · ·	18.	SIGN ,	ITA	URE A	NND TITLE OF INSPECTOR		
ELEV. DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	RÉ	<u>~</u> C.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE
-45.9 0.0							-45.9		
-48.0 -2.1	s	SAND, poorly-graded, mostly fine-grained sand-sized quartz, trace medium-grained sand-sized shell, 2.5Y 6/3 light yellowish prown (SP)	N	R	1		Vibracore		
-50.0 -4.1	···· s	SAND, poorly-graded, mostly fine-grained sand-sized quartz, little sand to gravel-sized shell up to 3/4", trace silt, 5GY 4/1 dark greenish gray (SP)			2		-48.4		
-50.9 5.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, few medium to coarse-grained sand-sized shell, 10Y 4/1 dark greenish gray (SP) CLAY, lean, medium plasticity, few							
	f r	ine-grained sand-sized quartz, trace medium-grained sand-sized shell, 5GY 4/1 dark greenish gray (CL) At El51.8 Ft., medium plasticity, some ine-grained sand-sized quartz, trace							
- - - - -	r r r r r r r r r r r r r r r r r r	nedium-grained sand-sized shell, 5GY 4/1 dark greenish gray SAND, clayey, low plasticity, mostly ine-grained sand-sized quartz, some clay,							
<u>-54.6 - 8.7</u> - - -	· · · · f	ew medium to coarse-grained sand-sized shell, 5GY 4/1 dark greenish gray (SC) SAND, poorly-graded with silt, mostly ine-grained sand-sized quartz, few silt, trac medium grained end signed sholl	~	R			Vibracore		
-55.9 T 10.0 - - - - - - - - - - - -		nedium-grained sand-sized shell, 10Y 4/1 dark greenish gray (SP-SM) CLAY, fat, high plasticity, few medium to coarse-grained sand-sized shell, few ine-grained sand-sized quartz, 10G 4/1 dar greenish gray (CH)	ĸ						
	f r	At El57.8 Ft., high plasticity, few ine-grained sand-sized quartz, trace nedium-grained sand-sized shell, 10G 4/1 dark greenish gray							
SAJ FORM 18	36						(Continued)		

SAJ FORM 1836 JUN 02

DR	LLING	LOC	G (Cont. Sheet)	INSTALLA Jackso				<u> </u>	nation VB-SJS	SHEET 2 OF 2 S	
PROJEC			•	COORDIN				UM	HORIZONTAL		
St. J	ohns Coun	ty, FL	SPP	State F					NAD83	MLW	
OCATI	ON COORDI	NATES	5		ELEVATION TOP OF BORING						
X = 5	562,306		,116,044	-45.9 F	t.	1	1				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERI	ALS	RÉC.	BOX OR SAMPLE	RQD OR UD		REMARK	s BLOWS/ 1 FT.	N-VALUE
-61.3	15.4		SAND, clayey, medium plasticity, r fine-grained sand-sized quartz, so 10Y 3/1 very dark greenish gray (: At El62.1 Ft., medium plasticity, fine-grained sand-sized quartz, so 5GY 5/1 greenish gray At El64.5 Ft., low plasticity, most fine-grained sand-sized quartz, littl 10GY 6/1 greenish gray	ne clay, SC) mostly ne clay, ly	NR				Vibraco	e	
-65.9	20.0		NOTES: 1. USACE Jacksonville is the cust these original files. 2. Soils are field visually classified accordance with the Unified Soils Classification System. 3. Elevation based on predicted tid 4. Laboratory Testing Results SAMPLE SAMPLE LABOR ID DEPTH CLASSIF 1 0.0/2.0 Si 2 2.5/5.0 Si *Lab visual classification based on curve. No Atterberg limits.	de ATORY ICATION				-65.9 Abbrev NR =	iations: = Not Recorded.		

						ng Designation	VB-SJSP06-	5	
DRILLING I	LOG	DIVISION South Atlantic	INSTAL			District		SHEET 1 OF 2 SH	IFFTe
1. PROJECT		South Atlantic			-		Remarks		EEIS
St. Johns Co	ounty, F	L SPP					HORIZONTAL	VERTICAL	
Borrow Area				State	e Plar	ne, FLE (U.S. Ft.)	NAD83	MLW	
2. BORING DESIGN		LOCATION COORDINATES		ANUF	ACTU	RER'S DESIGNATION			
VB-SJSP06- 3. DRILLING AGEN	-	X = 585,744 Y = 2,022,612 CONTRACTOR FILE NO.		Alpir	ie 270	0 Vibracore on D/B		ANUAL HAM	
Corps of Eng		1	12. TC	TAL S	SAMPI	IFS			(00)
4. NAME OF DRILLE			13. TC		NUMB		0	<u> </u>	
L. Gaughf			14 EI	EVAT			N/A		
5. DIRECTION OF B	BORING	DEG. FROM BEARING VERTICAL	14. 22				STARTED	COMPLETE	D
			15. DA	TE B	ORING	3	06-14-06	06-14-0	
6. THICKNESS OF (OVERBU	jrden N/A	16. EL	EVAT	ION T	FOP OF BORING -4	49.3 Ft.		
7. DEPTH DRILLED		оск N/A	17. TC	TAL	RECO	VERY FOR BORING	Not Recorded		
			18. SI	GNAT	URE A	AND TITLE OF INSPEC	TOR		
8. TOTAL DEPTH O	F BORIN	NG 10.0 Ft.	Ĺ	, T		,			
ELEV. DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	RÉC.	BOX OR SAMPLE	ROD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE
-49.3 0.0						-49.3			
		SAND, poorly-graded with silt, mostly	+			10.0			
E I		fine-grained sand-sized quartz, few silt, trace medium-grained sand-sized shell,	*						
		10YR 6/1 gray (SP-SM)							
F I									
				1					
E I									
-52.8 3.5			1						
-		CLAY, fat, high plasticity, few fine-grained	7						
		sand-sized quartz, 5G 4/1 dark greenish gray (CH)							
			NR				Vibracore		
-									
<u> </u>									
F I									
-56.3 7.0			_						
E I		SAND, silty, low plasticity, some sand to gravel-sized limestone up to 1', some silt,							
F	+ + 	little fine-grained sand-sized guartz,							
-57.8 8.5	ĬŧĬŧ I	5G 4/2 grayish green (SM)							
		SAND, poorly-graded with silt, mostly fine to medium-grained sand-sized quartz, few silt,	1						
F I	1	trace medium-grained sand-sized shell,							
-59.3 10.0		10Y 5/1 greenish gray (SP-SM)				50.2			
-59.3 10.0	• • • •		+		\vdash	-59.3			\vdash
E		NOTES:				Abbreviations: NR = Not Reco	orded.		
		1. USACE Jacksonville is the custodian for							
F I		these original files.	1						
F		2. Soils are field visually classified in							
E I		accordance with the Unified Soils Classification System.	1						
E I									
F		3. Elevation based on predicted tide							
F	4	4. Laboratory Testing Results							
F	ļ	SAMPLE SAMPLE LABORATORY							
F		ID DEPTH CLASSIFICATION	1	1	1				1
F 1					1 1				

			C (Cont. Choot)	INSTAL	LATION			0 0		SHEET	2		
DR	ILLING	LOC	G (Cont. Sheet)	Jack	ksonvill	e Dist	rict			OF 2	SHEE	тs	
PROJEC					DINATE S				HORIZONTAL	RTICAL			
	ohns Coun				te Plane				NAD83	MLW			
	ON COORDI					POF	BORIN	G					
X = :	585,744		,022,612	-49.	.3 Ft.	<u> </u>	1						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIA	LS	RÉC	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/	-	N-VALUE	
			1 0.0/3.5 SP *Lab visual classification based on curve. No Atterberg limits.										

								Boring Designation VB-SJSP06-50								
DRILLING	LOG	DIVISIO			INSTAL					SHEET 1						
		Sout	th Atlantic					listrict		OF 2 SH	IEETS					
1. PROJECT									Remarks							
St. Johns Co		·L SPP						SYSTEM/DATUM	HORIZONTAL	VERTICAL						
Borrow Area								ne, FLE (U.S. Ft.)		MLW						
2. BORING DESIGN		I			11. M				· 🗆	AUTO HAMMI						
VB-SJSP06 3. DRILLING AGEN			X = 563,321	Y = 2,126,225		Alpir	ne 27	0 Vibracore on D/E		MANUAL HAN						
		CECA I	CON	TRACTOR FILE NO.	12. то		SAMP	LES			J (UU)					
Corps of En 4. NAME OF DRILL	0	- CESAJ	i					<u> </u>		0						
L. Gaughf					13. TC	TAL	NUMB	ER CORE BOXES	0							
5. DIRECTION OF E	BORING		DEG. FROM	BEARING	14. EL	EVAT		GROUND WATER	N/A							
			VERTICAL		15. DA			~	STARTED	COMPLET	ED					
					13. 04			3	07-26-06	07-26-0	06					
6. THICKNESS OF	OVERB	JRDEN	N/A		16. EL	EVAT	TION T	OP OF BORING	-43.2 Ft.							
			√/A		17. тс	TAL	RECO	VERY FOR BORING	Not Recorde	d						
7. DEPTH DRILLED			V/A		18. SI	GNAT	URE A	AND TITLE OF INSP	ECTOR							
8. TOTAL DEPTH C	of Bori	NG 16.	.8 Ft.			,										
ELEV. DEPTH	LEGEND	CL	ASSIFICATION OF	E MATERIAI S	RÉC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE					
	LEG	ŰĽ,			REC.	SAN	ŬĎ			BLC	7-N					
					+						┯╼┥					
-43.2 0.0		0.4115						-43.2			\perp					
ŀ				stly fine-grained nd to gravel-sized												
F		shell up to	o 3/8", 5Y 6/3 pa	le olive (SP)												
E			•	. ,	NR	1			Vibracore							
-45.0 [1.8	$ \cdots $															
	┟┄┝	SAND, po	orly-graded, mo	stly fine-grained				-45.2								
ŀ		sand-size	d quartz, trace m	nedium-grained							1					
Ę	:∵:		d shell, trace silt	, 5Y 4/1 dark gray		2										
	$ \cdot \cdot \cdot $	(SP)			NR				Vibracore							
-46.6 - 3.4	$\left \frac{1}{1} \right $		ty, low plasticity,	mostly			1									
ŀ		fine-graine	ed sand-sized qu	uartz, some silt,				-47.2								
F	 +†+ † 		lium-grained san													
Ę	 <u> </u> <u> </u> <u> </u>	10614/1	dark greenish g	ray (SIVI)												
F	 !!!!!															
Ę	 ↓ ↓ 					3										
F	┨┥┆╡┆┨					ľ										
F	 + 1 + 1															
ŀ	 <u> </u> <u> </u> <u> </u>															
F	 ∏ <u> </u> ∏				NR		-		Vibracore							
Ł	<u> </u>	At El50.	4 Ft., low plastic	ity, mostly												
F	+!+ !	fine-graine	ed sand-sized qu	uartz, some silt,												
E I	 † † 		to gravel-sized s dark greenish g													
ŀ			san groomon g	·~,												
Ĺ	 															
ŀ																
Ę	 + + 							52.2								
F	IIIIII	At El53	.2 Ft., low plastic	city, mostly	\vdash		1	-53.2			┼─┦					
Ę		fine-graine	ed sand-sized qu	uartz, some silt,												
F			um-grained sand													
F		10GY 4/1	dark greenish g	гау												
ŀ	 <u>†</u> <u> </u> † <u> </u>					4										
F																
F	 ↓†↓† 								\/ibrc							
F					NR				Vibracore							
F			0 Ft., mostly fine				1									
		sanu-size	d quartz, little cla	ay, liace												
	Ⅰ †↓†↓ Ⅰ	medium-a	trained sand-size	ed shell.												
-57.0 13.8	┃┇┙┇┙ ┨╹╍╎╵┥╣╲	medium-g 5GY 4/1 d	grained sand-size lark greenish gra	ау												
 -57.0 _ 13.8 		medium-g 5GY 4/1 d SAND, po	dark greenish gra	ay 1 silt, mostly	-/											
		medium-g 5GY 4/1 d SAND, po fine-graine	dark greenish gra	ay n silt, mostly uartz, few silt,	-1											

ימס			G (Cont Shoot)	INSTALLA				g Designation VB-SJSP	SHEET 2			
		LU	G (Cont. Sheet)	Jackso			OF 2 SH	IEETS				
ROJEC	∶ τ ohns Cour	ntv ⊏'	SPP	COORDIN/ State F		1	VERTICAL MLW					
			2,126,225		-43.2 Ft.							
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATER	ALS	RÉC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE		
-60.0	16.8		At El58.5 Ft., mostly fine-grained sand-sized quartz, few silt, 10YR t	d 5/3 brown	NR			Vibracore				
00.0	10.0		NOTES:					Abbreviations:				
			 USACE Jacksonville is the cus these original files. 	todian for				NR = Not Recorded.				
			 Soils are field visually classified accordance with the Unified Soils Classification System. 	lin								
			3. Elevation based on predicted ti	de								
			4. Laboratory Testing Results									
			SAMPLE SAMPLE LABOR ID DEPTH CLASSIF	ATORY ICATION								
			2 2.0/3.4 S 3 4.0/7.0 S	P* P* VI* VI*								
			*Lab visual classification based or curve. No Atterberg limits.	gradation								

					E	Borin	g Designation VB-SJSP06	5-6	
DRILLING		DIVISION		INSTAL				SHEET 1	
I. PROJECT		South Atlantic					istrict E OF BIT See Remarks	OF 1 SH	EETS
St. Johns	County	FL SPP					SYSTEM/DATUM HORIZONTAL	VERTICAL	
Borrow Ar							ne, FLE (U.S. Ft.) NAD83	MLW	
2. BORING DESI	GNATION	LOCATION CO	ORDINATES				RER'S DESIGNATION OF DRILL		R
VB-SJSP(Y = 2,026,958		Alpir	ne 270	0 Vibracore on D/B Snell	MANUAL HAN	
3. DRILLING AGI Corps of F		s - CESAJ	ONTRACTOR FILE NO.	12. TC	TAL	SAMP	LES 1	UNDISTURBED	(UD)
4. NAME OF DRI				13. TC	TAL	NUMB	ER CORE BOXES ()		
L. Gaughf				14. EL	EVAT		ROUND WATER N/A		
5. DIRECTION OF VERTICAL	-	DEG. FROM	BEARING	15. DA			STARTED	COMPLETE	
5. THICKNESS O		URDEN N/A		16. EL	EVAT	TION T	OP OF BORING -45.6 Ft.		
7. DEPTH DRILL		ROCK N/A		17. TC	TAL	RECO	VERY FOR BORING Not Record	ed	
				18. SI	GNAT	URE A	AND TITLE OF INSPECTOR		
8. TOTAL DEPTH	— — — — —	ING 4.0 Ft.		-	,				
ELEV. DEPTH	LEGEND	CLASSIFICATION	I OF MATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE
-45.6 0.0							-45.6		
-		SAND, poorly-graded,	mostly fine to				10.0		
Ē		medium-grained sand- 10YR 6/1 gray (SP)	sized quartz, trace sit	,					
-		0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
E									
E				NR	1		Vibracore		
F									
Ē									
-49.6 4.0							-49.6		
È		NOTES:					Abbreviations:		
-		1. USACE Jacksonville these original files.	e is the custodian for				NR = Not Recorded.		
Ē		Ū							
		2. Soils are field visual accordance with the Ur Classification System.							
- -		3. Elevation based on	predicted tide						
F									
È		4. Laboratory Testing	Results						
Ę		SAMPLE SAMPLE ID DEPTH	LABORATORY CLASSIFICATION						
È.				-					
Ę		1 0.0/4.0	SP*						
Ł		*Lab visual classification	n based on gradation						
F		curve. No Atterberg lin	nits.						
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St. Johns County, FL SPP To: Concentrate sty standarding Indiazzontal Water KLAL 2: Bolow Ariss Satte Plans, FL EUS, FL, Johns, FL EUS, FL, FL, FL, FL, FL, FL, FL, FL, FL, FL							ng Designation	VB-SJSP06-	7	
I. PROJECT Journ Auditur Journ Auditur Journ Auditur Journ Auditur Journ State Princ, PE (U.S. Ft). NARS3 MUV St. Johns County, FL SPP State Princ, FL (U.S. Ft). NARS3 MUV MARUTACTURE V Sector Prince MUV J. DOUTD ACCOUNT IN COORDINATES X = 504,718 Y = 2,000,817 MUV MARUTACTURE V Sector Prince MARUTAC	DRILLING	LOG					District			IFFTe
St. Johns County, FL SPP 10. COORDINATE SYSTEMDATION FURTION TO STATE ON THE MADBY IN THE PLANT, FLUES, F	1. PROJECT		South Atlantic	-				Remarks	UF 2 SH	IEEIS
Bit Description State Plane, FLE (U.S. FL) NADBS Mu/W USE OPEND ESTANTION LICOATION COORDINATES 1/1/104/1000100000000000000000000000000	St. Johns Co	ountv. F	EL SPP						VERTICAL	
2. BORING DESIGNATION I LOCATION COORDINATES WE-SUPPOPT X=547/18 Y=2.03.617 A DATE ADDRESS DESIGNATION OF DELL ADAMEE Alpine 270 Vibracore On DESIM Corport of promets - CESAJ 2 0 0 12 TOTAL SAMPLES 2 0 0 0 UNITAGE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					Stat	e Pla	ne, FLE (U.S. Ft.)	NAD83	MLW	
3. DRELING ACEKY	2. BORING DESIGN	NATION	LOCATION COORDINATES	11. 1						R
Copy of Engineers - CESAJ I VI. TOTAL SAMPLES 2 0 I. Gaught 13. TOTAL MUMBER CORE BOXES 0 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII					Alpi	ne 27				
4. MM6 OF DBILLER 13. TOTAL NUMBER CORE BOXES 0 1. Gaught 13. TOTAL NUMBER CORE BOXES 0 5. DIRECTION OF BORING DEC. FROM BELARING 13. TOTAL NUMBER CORE BOXES 0 061400 6. THICKNESS OF OVERBURDEN NA 15. DATE BORING 061400 0. THICKNESS OF OVERBURDEN NA 15. DATE BORING 061400 0. THICKNESS OF OVERBURDEN NA 15. DATE BORING 061400 0. TOTAL DEPTH OR ROCK NA 17. TOTAL BECOVERY FOR BORING NGI Recorded 14. TOTAL DEPTH OF BORING 14.0 FL 18. SIGNATURE AND THE OF INSPECTOR 14.0 FL ELEV DEPTH SAND, poorly-graded, mostly fine-grained sand-sized gaar, some sill, trace medium-grained sand-sized shell, TOTR Bit gray (SP) NR 1 -51.2 3.5 SAND, Silly, mostly fine-grained sand-sized gaar, some sill, trace medium-grained sand-sized shell, SGY 4/1 dark greenish gray (SM) -51.2 -51.2 -57.7 10.0 11.1 SAND, silly, mostly fine-grained sand-sized gaar, is an sized shell, SGY 4/1 dark greenish gray (SM) -51.7 -57.7 14.0 NOTES: NOTES: Abbreviations: NIE NO Recorded,			1). 12. 1	OTAL	SAMP	LES) (UD)
L. Casginf			- CESAJ	12 7	OTAL			1	0	
S DIRCUTON OF BORING OPEC. FROM VENTICAL EARING 14. ELEVATION GROUND WATE IS DATE BORING NA C THICKNES OF OVERBURDEN IS THATTED INCLINED N/A 15. DATE BORING ISTATTED	L. Gaughf							-		
Inclusion 15 DATE BORINO 06-14-06 06-14-06 06-14-06 0. THACKNESS OF OVERBURDON N/A 16 ELEVATION TOP OF BORING 14.0 FL 17. DOPTH DRILLED INTO ROCK N/A 17 TOTAL BORING 14.0 FL 18. TOTAL DEPTH OF BORING 14.0 FL 18 SIGNATURE AND TITLE OF INSPECTOR 14.7.7 0.0 CLASSIFICATION OF MATERIALS RC	5. DIRECTION OF I	BORING	DEG. FROM BEARING	-14. E	LEVA	TION	GROUND WATER		1	
A. THICKNESS OF OVERBURDEN N/A 16. ELEVATION TOP OF BORING 47.7 FL. 7. DEPTH DRILLED INTO ROCK N/A 17. TOTAL RECOVERY FOR BORING Not Recorded 8. TOTAL DEPTH OF BORING 14.0 FL 18. SIGANTURE AND TITLE OF INSPECTOR 8. TOTAL DEPTH OF BORING 14.0 FL 18. SIGANTURE AND TITLE OF INSPECTOR 47.7 0.0 SAND: poorly-graded, mestly fine-grained sand-sized quartz. Insoe medium-grained sand-sized quartz. Some skill, 10YR 6/1 gray (SP) 47.7 -51.2 3.6 SAND, solly, mostly fine-grained sand-sized graded, developing and sand-sized quartz. Insoe medium-grained sand-sized quartz. Insoe medium-grained sand-sized shell, GOY 4/1 dark greenish gray (SM) -51.2 -56.2 8.5 CLAY, fat, high plasticity, few fine-grained sand-sized gray (CH) NR -57.7 10.0 TAND, skily, mostly sand to grave-sized fine-grained sand-sized quartz. NG / gray (SM) -57.7 10.0 TAND, SIN, mostly sand to grave-sized fine-grained sand-sized quartz. NG / gray (SM) -57.7 10.0 TAND, SIN, mostly sand to grave-sized fine-grained sand-sized quartz. NG / gray (SM) -57.7 10.0 TAND, SIN, mostly sand to grave-sized fine-grained sand-sized quartz. NG / gray (SM) -57.7 10.0 TAND, SIN, mostly sand to grave-sized fine-grained sand-sized quartz. NG / gray (SM) -57.7 10.0 TAND, SIN, mostly sand to grave-sized fine-grained sand-sized quartz. NG / gra	_		VERTICAL	15. [DATE B	ORIN	G		i	
DEPTH ORILLED INTO ROCK N/A 17. TOTAL RECOVERY FOR BORING Not Recorded B. TOTAL DEPTH OF BORING 14.0 FL. 18. SIGNATURE AND TITLE OF INSPECTOR ELEV. DEPTH B CLASSIFICATION OF MATERIALS REC. B FBB REMARKS B FBB 47.7 0.0				14					00-14-0	
A. DEPTH ORACLED INFORMATION OR MATERIALS 18. SIGNATURE AND TITLE OF INSPECTOR B. TOTAL DEPTH OF BORING 14.0 FL. ELEV DEPTH B G. O	6. THICKNESS OF	OVERBU	JRDEN IN/A							
B. TOTAL DEPTH OF BORING 14.0 Ft. ELEV DEPTH B CLASSIFICATION OF MATERIALS PCC	7. DEPTH DRILLED	D INTO R	оск N/A						1	
-47.7 0.0 SAND. porty-graded, mostly fine-grained sand-sized quartz, trace medium-grained sand-sized shell, 10YR 6/1 gray (SP) -47.7 -51.2 3.5 SAND. silty, mostly fine-grained sand-sized quartz, some silt, trace medium-grained sand-sized shell, 5GY 4/1 dark greenish gray (SM) NR 1 Vibracore -51.2 3.5 SAND. silty, mostly fine-grained sand-sized quartz, some silt, trace medium-grained sand-sized shell, 5GY 4/1 dark greenish gray (SM) -51.2 -51.2 -56.2 8.5 CLAY, fat, high plasticity, few fine-grained sand-sized quartz, trace medium-grained sand-sized shell, 5GY 4/1 dark greenish gray (SM) 2 -51.2 -57.7 10.0 SAND, silty, mostly sand to gravel-sized in gray (SM) NR 2 -61.7 14.0 NOTES: Abbreviations: NR = Not Recorded. Abbreviations: NR = Not Recorded.	8. TOTAL DEPTH C		NG 14.0 Ft.	_ '°. `		ORE	AND TITLE OF INSP	ECTOR		
-47.7 0.0 SAND. porty-graded, mostly fine-grained sand-sized quartz, trace medium-grained sand-sized shell, 10YR 6/1 gray (SP) -47.7 -51.2 3.5 SAND. silty, mostly fine-grained sand-sized quartz, some silt, trace medium-grained sand-sized shell, 5GY 4/1 dark greenish gray (SM) NR 1 Vibracore -51.2 3.5 SAND. silty, mostly fine-grained sand-sized quartz, some silt, trace medium-grained sand-sized shell, 5GY 4/1 dark greenish gray (SM) -51.2 -51.2 -56.2 8.5 CLAY, fat, high plasticity, few fine-grained sand-sized quartz, trace medium-grained sand-sized shell, 5GY 4/1 dark greenish gray (SM) 2 -51.2 -57.7 10.0 SAND, silty, mostly sand to gravel-sized in gray (SM) NR 2 -61.7 14.0 NOTES: Abbreviations: NR = Not Recorded. Abbreviations: NR = Not Recorded.	ELEV. DEPTH	EGEND	CLASSIFICATION OF MATERIALS	REG	SOX OR	ROD OR UD		REMARKS	BLOWS/ 1 FT.	I-VALUE
-51.2 SAND, porty-graded, mostly fine-grained sand-sized shell, 10YR 6/1 gray (SP) -51.2 3.5 -51.2 3.5 -51.2 3.5 -51.2 -51										2
-51.2 3.5 SAND silty mostly fine-grained sand-sized quartz, trace medium-grained sand-sized shell, 10YR 6/1 gray (SP) -51.2 3.5 SAND silty, mostly fine-grained sand-sized quartz, some silt, trace medium-grained sand-sized quartz, N 6/ gray (SM)61.7	-47.7 0.0	$\left \cdot \cdot \right $	SAND, poorly-graded, mostly fine-grained				-47.7			
-51.2 3.5 ··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·	Ē	$ \cdot\cdot $	sand-sized quartz, trace medium-grained							
-51.2 3.5 ··· SAND, silly, mostly fine-grained sand-sized quartz, some silt, trace medium-grained sand-sized shell, 5GY 4/1 dark greenish gray (SM) -56.2 8.5 ··· CLAY, fat, high plasticity, few fine-grained sand-sized quartz, trace medium-grained	È.		sand-sized shell, 10YR 6/1 gray (SP)							
-51.2 3.5 ··· SAND, silly, mostly fine-grained sand-sized quartz, some silt, trace medium-grained sand-sized shell, 5GY 4/1 dark greenish gray (SM) -56.2 8.5 ··· CLAY, fat, high plasticity, few fine-grained sand-sized quartz, trace medium-grained	ŀ	····								
-56.2 8.5 -56.2 8.5 -57.7 10.0 SAND, silty, mostly fine-grained sand-sized quartz, trace medium-grained sand-sized quartz,	F			NF	R 1			Vibracore		
-56.2 8.5 -56.2 8.5 -57.7 10.0 SAND, silty, mostly fine-grained sand-sized quartz, trace medium-grained sand-sized quartz,	Ē									
-56.2 8.5 -56.2 8.5 -57.7 10.0 SAND, silty, mostly fine-grained sand-sized quartz, trace medium-grained sand-sized quartz,	ŀ	····								
-56.2 8.5 -56.2 8.5 -57.7 10.0 SAND, silty, mostly fine-grained sand-sized quartz, trace medium-grained sand-sized quartz,	F									
-56.2 8.5 -56.2 8.5 -57.7 10.0 -57.7 10	-51.2 3.5					4	-51.2			
-57.7 10.0 -57.7 -57.7 10.0 -57.7 -57.7 10.0 -57.7	-56.2 8.5		quartz, some silt, trace medium-grained sand-sized shell, 5GY 4/1 dark greenish gr (SM)		2					
-57.7 10.0 -57.7 10.0 SAND, silty, mostly sand to gravel-sized limestone up to 1', little silt, little fine-grained sand-sized quartz, N 6/ gray (SM) -61.7 14.0 NOTES: NOTES: NR = Not Recorded.				NF	2	1		Vibracore		
-57.7 10.0 gray (CH) -57.7 10.0 SAND, silty, mostly sand to gravel-sized limestone up to 1', little silt, little fine-grained sand-sized quartz, N 6/ gray (SM) -61.7 14.0 -61.7 NOTES: -61.7 Abbreviations: NR = Not Recorded.	F		sand-sized shell, 10GY 4/1 dark greenish			1				
-61.7 14.0 NOTES: AND, silty, mostly sand to gravel-sized limestone up to 1', little silt, little fine-grained sand-sized quartz, N 6/ gray (SM) -61.7 14.0 -61.7 NOTES: Abbreviations: NR = Not Recorded.										[
NOTES: Abbreviations: NR = Not Recorded.	<u>-5/./ [10.0</u> - - - - - - - - - - - - - - - - - - -		limestone up to 1', little silt, little fine-graine	:d						
NR = Not Recorded.	-61.7 14.0						-61.7			ŀ
	-		NOTES:					aardad		
Continued) (Continued)	F						INK = NOT RE			

		Boring Designation VB-SJSP06-7								
DRILLING LO	G (Cont. Sheet)	Jackso		Distr	ict				SHEETS	
PROJECT		COORDINA		VERTICAL						
St. Johns County, FL		State F				•	NAD83	MLW		
LOCATION COORDINATE X = 584,718 Y = 2	. s 2,030,817	elevatio -47.7 F		OF E	ORIN	G				
ELEV. DEPTH	CLASSIFICATION OF MATERIA		RÉC.	BOX OR SAMPLE	RQD OR UD		REMAR	BLOWS/	1 FT. N-VALUE	
SAJ FORM 1836-A	1. USACE Jacksonville is the custo these original files. 2. Soils are field visually classified i accordance with the Unified Soils Classification System. 3. Elevation based on predicted tide 4. Laboratory Testing Results SAMPLE SAMPLE LABORATID DEPTH CLASSIFIC 1 0.0/3.5 2 3.5/8.5 *Lab visual classification based on g curve. No Atterberg limits.	dian for n e TORY CATION		SAM						

						E	Borin	g Designation VB-SJSP0	6-8		
DRILL			DIVISION			LATIC			SHEET 1		1
1. PROJEC			South Atlantic	-				istrict	OF 1 SH	IEETS	-
								E OF BIT See Remarks SYSTEM/DATUM HORIZONTAL	VERTICAL		-
	row Area	-	FL SPP	10.				ne, FLE (U.S. Ft.) NAD83	MLW		
2. BORING			N LOCATION COORDINATES	11.						D	-
VB-	SJSP06-	-8	X = 583,587 Y = 2,039,792			Alpin	ne 270) Vibracore on D/B Snell	MANUAL HAN		
3. DRILLIN			CONTRACTOR FILE NO.	12	то	τΔΙ 🤇	SAMP	DISTURBED	UNDISTURBED) (UD)	1
			rs - CESAJ	12.	10			1	0		
4. NAME C		ER		13.	то	TAL	NUMB	ER CORE BOXES ()			
5. DIRECT	Baughf FION OF B	BORING	G DEG. FROM BEARING	14.	ELI	EVAT		ROUND WATER N/A			
	RTICAL		VERTICAL	15.	DA	те во	ORING	STARTED	COMPLETE		1
	CLINED			_				06-14-06	06-14-0)6	_
6. ТНІСКИ	NESS OF	OVERE	burden N/A	16.	ELI	EVAT	ION T	OP OF BORING -39.5 Ft.			
7. DEPTH	DRILLED	ΙΝΤΟ	ROCK N/A					VERY FOR BORING Not Record	ded		
B. TOTAL			RING 3.0 Ft.	18.	SIG	SNAT	URE A	ND TITLE OF INSPECTOR			
						, 				111	-
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	RI	% EC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE	
20 5								20 5			1
<u>-39.5 0</u>	0.0		SAND, poorly-graded, mostly fine to		_			-39.5			
F		· · · .	medium-grained sand-sized quartz, trace								F
F		\cdots	medium-grained sand-sized shell, 10YR 6/1 gray (SP)								F
Ę		····			NR	1		Vibracore			F
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-42.5 3	3.0							-42.5			F
-								Abbreviations:			ŧ
E			NOTES:					NR = Not Recorded.			E
-			1. USACE Jacksonville is the custodian for these original files.								F
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			2. Soils are field visually classified in accordance with the Unified Soils Classification System.								F
			3. Elevation based on predicted tide								F
Ŀ			4. Laboratory Testing Results								Ē
E			SAMPLE SAMPLE LABORATORY ID DEPTH CLASSIFICATION								ŧ
F			1 0.0/3.0 SP*								F
Ē			*Lab visual classification based on gradation curve. No Atterberg limits.	n							E
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DRILLING LOG Wiston INSTALLATION INSTALLATION 1. PROJECT J. SALE AND TYPE OF BIT See Remarks St. John Scanty, PL SP 10. COORDINATE SYSTEMATOR IN INSTALLATION NAME OF SERVICE OF INT See Remarks Borring Area 11. MONOSTATION LOCATION COORDINATES NAME ANALYTICKER SEGMANTION PLOT INSTALLATION USIND DESIGNATION LOCATION COORDINATES NAME ANALYTICKER SEGMANTION PLOT INSTALMENT UNAL INSTALMENT UNAL SEGMANTION POINT IN INSTALMENT UNAL SEGMENT IN PERIAL ANAMERS DISTURMENT OF LOCATION COORDINATES NAME OF ORDINATION INSTALLATION LOCATION COORDINATES I. AMME OF ORDING INSTALLATION INSTALLATION DISTURMENT OF CESAL INTERNATION LOCATION COORDINATES I. AMME OF ORDING INSTALLATION NAME OF ORDING INSTALLATION I. CAUGHT INTERNATION INTERNATION INTERNATION I. CAUGHT INTERNATION INTERNATION INTERNATION I. CAUGHT INTERNATION INTERNATION INTERNATION I. TOTAL DEPTH OFICIER INTERNATION INTERNATION INTERNATION I. TOTAL DEPTH OF ORDING 12.5 FL INTERNATION TO PORTHING INTERNATION I. TOTAL DEPTH OF BORNG 12.5 FL INTERNATION TO PORTHING INTERNATION I. TOTAL DEPTH OF BORNG 12.5 FL INTERNATIO							g Designation	VB-SJSP06-9	9	
1. PROJECT 1. South Authoric Just Authoric Ju	DRILLING	LOG					istrict			FETE
St. Johns County, FL SPP 10. CONSINTE SYSTEMDATUM INDEXIDATE, UPERTICAL Borrow Area SINDE Plane, FLE (U.S. FL). NADB3 MLW 2. BORRING PESIGNATION LOCATION COORDINATES Applie 270 Vbracore on DB Sinde MANUAL HAMMER 3. DRELING ACCIVE 2. SESIONATION OF DRILL Composition of DB DRILLER ISTUREPlane, TEU (U.S. FL). INDEXTUREED UNDESTUREED UNDESTUREED 4. NAME OF DRILLER ISTURPERON ISTURPERON ISTURPERON UNDESTUREED UNDESTUREED C. Gought ISTURPERON ISTURPERON ISTURPERON ISTURPERON UNDESTUREED UNDESTUREED S. DIRECTION OF BORING DEC. FROM IBEARING ISTURPERON FOR DORING ISTURPERON ISTURPERON ISTURPERON S. DIRECTION OF BORING DEC. FROM IBEARING ISTURPERON ISTURPERON ISTURPERON B. TOTAL DEPTH OF RORING IZ FL ISTURPERON ISTURPERON ISTURPERON ISTURPERON B. TOTAL DEPTH OF RORING IZ SFL ISTURPERON ISTURPERON ISTURPERON ISTURPERON SANDD, DOOTY-graded, mostly fine-grained abl. Iftel sand to grave-sized shell, isture and to grave-sized shell, isture	1. PROJECT		South Atlantic	-				Remarks		EEIS
Bornov Area State Plane, FLE (U.S. FL) NAD03 BORING 05504700 LOCATION COORDINATES MAUNACTURES 1050000 TO BILL Auto Automate VBLING ACREVY CONTRACTOR FLE NO. Apine 270 Vibracore on D/B Snell Auto Automate Congo of Engineers - CESAJ 12 TOTAL SAMPLES 3 0 MME OF DENING LGaught 13 TOTAL SAMPLES 0	St. Johns C	County.	FL SPP						VERTICAL	
2. BORING DESIGNATION I LOCATION COORDINATES VPS.SJP06-9 3. BALLINA AGENCY COTS 4. SAME AND STANDARD COORDINATES 3. BALLINA AGENCY COTS 4. SAME OF DELLER L. Gaught 5. DIRECTION OF BORING CORS 6F OR DORING CORS 6F					State	e Plar	ne, FLE (U.S. Ft.)	NAD83	MLW	
3. DRLING ACERCY CONTRACTOR FILE NO 12 TOTAL SAMPLES 10 10 4. MMK OF DRLILER 13 TOTAL SAMPLES 3 0 4. MMK OF DRLILER 13 TOTAL SAMPLES 0 5. DIRECTION OF BORING DEC. FROM INCLINED BEARING 14 ELEVATION GROUND WATER NA 6. THICKNESS OF OVERBURDEN NA 15 DATE BORING 0 10 15 7. DEPTH DRLIED INTO ROCK NA 15 ELEVATION GROUNE VATER NA 16 8. TOTAL DEPTH OF BORING 12.5 FL 18 SIGNATURE AND TITLE OF INSPECTOR 8. TOTAL DEPTH OF BORING 12.5 FL 18 SIGNATURE AND TITLE OF INSPECTOR 5.3.3 0.0			LOCATION COORDINATES	11. M						R
Corps of Engineers - CESAJ 12 TOTAL SAMPLES 3 0 AMME OF DERING IEEC FROM ISECTION OF BORING IEEC FROM ISECTION OF ROUND WATER N/A ED VERTICAL VERTICAL IEEC FROM ISECTION OF ROUND WATER N/A ISECTION OF BORING COMPLETED MICLINED VERTICAL IEEC FROM ISECTION OF BORING ISTARTED COMPLETED MICLINED VERTICAL IEEC FROM ISECTION OF BORING ISTARTED ISECTION OF BORING ISTARTED A. THICKNESS OF OVERBURDEN N/A TO TAL RECOVERY FOR BORING Not Recorded ISECTION OF MATERIALS ISECRATURE MAN TITLE OF INSECTOR B. TOTAL DEPTH OF BORING 12.5 FL ISECRATURE MAN TITLE OF INSECTOR ISECRATURE MAN TITLE OF INSECTOR -51.3 0.0 SAND, poorly-grained, mostly line-grained NR 1 -51.3 -51.3 0.0 SAND, poorly-grained sand-sized NR 1 -51.3 -51.3 -51.3 0.0 SAND, poorly-grained sand-sized NR 1 -51.3 -53.3 -51.3 SAND, poorly-grained sand-sized NR 1 -53.3 -59.3					Alpir	ne 270				
4. MMK of DRILLER 13. TOTAL NUMBER CORE BOXES 0 5. DIRECTION OF BORING DEC. FDOM DEC. FDOM BEARING 14. ELEVATION GROUND WATER NA 6. URLINED 15. DATE BORING DEC. FDOM DEC. FDOM BEARING 14. ELEVATION GROUND WATER NA 7. DEPTH DRILED INTO ROCK NA 15. ELEVATION TOP OF BORING 06.15.06 06.15.06 7. DEPTH DRILED INTO ROCK NA 15. ELEVATION TOP OF BORING NOI Recorded 8. TOTAL DEPTH OF BORING 12.5 FL 18. SIGNATURE AND TTILE OF INSPECTOR ELEV DEPTH 9 CLASSIFICATION OF MATERIALS BCC			1	12. то	TAL	SAMP	LES			(UD)
L. Gaughi L. Caughi Human Hermitian DEC. FROM VERTICAL BEARING Human Hermitian Open Hermitian Commentation Hermitian DI WETTCAL DEC. FROM MICLINES OF OVERBURGEN V/A 15. DATE BORING ISTARTED 06-15-06 COMMETTED 06-15-06 COMMETTED 06-15-06 COMMETTED 06-15-06 COMMETTED 06-15-06 COMMETTED 06-15-06 7. DEPTH BRILED INTO ROCK N/A 16. ELEVATION TOP OF BORING CLASSIFICATION OF MATERIALS REC. Standauge Issonarture and TILE OF INSPECTOR a. TOTAL DEPTH OF BORING 12.5 FL Issonarture and TILE OF INSPECTOR Issonarture and TILE OF INSPECTOR -51.3 0.0 SAND, poorly-graded, mostly fine-grained sand-sized quartz, little silt, frogrand sand-sized quartz, little silt, frogrand sand-sized quartz, little silt, frogrand sand-sized quartz, little silt, 100 Gri gravel-sized shell, up to 34*, fittle fine-grained sand-sized quartz, little silt, 100 Gri gravel-sized shell, up to 34*, fittle fine-grained sand-sized quartz, little silt, 100 Gri gravel-sized shell, up to 34*, fittle fine-grained sand-sized quartz, little silt, 100 Gri gravel-sized shell, up to 34*, fittle fine-grained sand-sized quartz, little silt, 100 Gri gravel-sized shell, up to 34*, fittle fine-grained sand-sized quartz, little silt, 100 Gri gravel-sized shell up to 34*, fittle fine-grained sand-sized quartz, little silt, 100 Gri gravel-sized shell up to 34*, fittle fine-grained sand-sized quartz, little silt, 100 Gri gravel-sized shell up to 34*, fittle fil		0	-CESAJ	12 70				-	0	
Solute Control of BORING DEC. FROM WENTCAL BEARING 14 LEUANTON GROUND WATER N/A ImacLines ImacLines <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>								-		
imacunation 15 DATE BORING 06-15-06 06-15-06 06-15-06 6. THACKNESS OF OVERBURGEN N/A 16 ELEVATION TOP OF DRINK 05-15-06 06-15-06 7. DEPTH DRILLED INTO ROCK N/A 17 TOTAL RECOVERY OF BORINK 17 TOTAL RECOVERY OF BORINK 17 TOTAL DEPTH oF BORING 12.5 FL 8. TOTAL DEPTH oF BORING 12.5 FL 18 SIGNATURE AND TITLE OF INSPECTOR 1 -51.3 0.0 SAND, poorly-graded, mostly fine-grained, sand-sized quart, trace medium-grained sand-sized shell, they and to gravel-sized shell, they and to gravel-sized quart, trace she medium-grained sand-sized quart, some inte to medium-grained sand-sized quart, some is and to gravel-sized intestore up to 347, little file, 10° K'11 dark greenish gray (SP-M) -59.3 -59.3 -63.8 12.5 NR 2 Vibracore -63.8 -63.8 -63.8 1. USACE Jacksonvile is the c	5. DIRECTION OF		DEG. FROM BEARING	14. EL	EVAT	ION G	ROUND WATER	-		
6. THICKNESS OF OVERBURGEN N/A 16. ELEVATION TOP OF BORING -51.3 FL 7. DEPTH DRILLED INTO ROCK N/A 17. TOTAL RECOVERY FOR BORING NOI Recorded 8. TOTAL DEPTH OF BORING 12.5 FL 18. SIGNATURE AND TITLE OF INSPECTOR 6.1.3 0.0 SAMD, poorly-graded, mostly fine-grained sand-sized grad for gravel-sized shell, 10/CY 4/1 dark greenish gray NR 1 6.2.3 1.0 SAND, poorly-graded with silt, some fine to medium-grained sand-sized shell, 10/CY 4/1 dark greenish gray NR 2 6.4.0 SAND, silty, mostly sand to gravel-sized shell, 10/CY 4/1 dark greenish gray NR 2 6.5.3 8.0 SAND, poorly-graded with silt, some fine to medium-grained sand-sized shell, 10/CY 4/1 dark greenish gray NR 2 6.0 SAND, silty, mostly sand to gravel-sized shell, 10/CY 4/1 dark greenish gray (SM) NR 2 6.0 SAND, silty, mostly sand to gravel-sized shell, 10/CY 4/1 dark greenish gray (SM) NR 3 6.0 SAND, silty, mostly sand to gravel-sized shell, 10/CY 4/1 dark greenish gray (SM) NR -59.3 6.0 SAND, silty, mostly sand to gravel-sized shell, 10/CY 4/1 dark greenish gray (SP/CM) -63.8 6.1.3 NR 3 -63.8 6.2.4 NR -63.8 -63.8 6.3.4 NOTES: 1. USACE Jacksonvile is the c			VERTICAL	15. D/	TE B	ORING	3	i	i	
7. DEPTH ORILLED INTO ROCK N/A 17. TOTAL RECOVERY FOR BORING Not Recorded 8. TOTAL DEPTH OF BORING 12.5 FL IS SIGNATURE AND TITLE OF INSPECTOR IS SIGNATURE AND TITLE OF INSPECTOR ELEV DEPTH B CLASSIFICATION OF MATERIALS IS SIGNATURE AND TITLE OF INSPECTOR -51.3 0.0				16 EI	EVAT				00100	.0
A. DEPTH VARILED WID VOCK TVA 18. SIGNATURE AND TITLE OF INSPECTOR a. TOTAL DEPTH of BG CLASSIFICATION OF MATERIALS REC. REMARKS BC -51.3 0.0	6. THICKNESS OF	OVERB	URDEN N/A	<u> </u>						
a. TOTAL DEPTH OF BORING 12.5 Ft. ELEV DEPTH g CLASSIFICATION OF MATERIALS acc. bc/st	7. DEPTH DRILLE	D INTO P	коск N/A							
-51.3 0.0 SAND, porty-graded, mostly fine-grained and-sized guart, trace silt, trace medium-grained sand-sized shell, 107 4/1 dark greenish gray (SM) NR 1 -51.3 -52.3 1.0 SAND, Silty, mostly fine-grained sand-sized shell, 107 4/1 dark greenish gray (SM) NR 1 -52.3 -69.3 8.0 SAND, silty, mostly sand to gravel-sized shell, 107 4/1 dark greenish gray (SM) NR 2 Vibracore -59.3 8.0 SAND, silty, mostly sand to gravel-sized quart, some silt, little silt, some fine to medium-grained sand-sized quart, some silt, little silt, tor 6/1 greenish gray (SM) NR 2 Vibracore -69.3 8.0 SAND, silty, mostly sand to gravel-sized quart, some silt, little silt, tor 6/1 greenish gray (SM) 3 -59.3 -63.8 12.5 NR 1 -59.3 -63.8 12.5 NOTES: 1. USACE Jacksonville is the custodian for these original files. -63.8 -63.8 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Abbreviations: NR = Not Recorded.	8. TOTAL DEPTH	OF BORI	NG 12.5 Ft.					LOTOK		
-51.3 0.0 SAND, porty-graded, mostly fine-grained and-sized guart, trace silt, trace medium-grained sand-sized shell, 107 4/1 dark greenish gray (SM) NR 1 -51.3 -52.3 1.0 SAND, Silty, mostly fine-grained sand-sized shell, 107 4/1 dark greenish gray (SM) NR 1 -52.3 -69.3 8.0 SAND, silty, mostly sand to gravel-sized shell, 107 4/1 dark greenish gray (SM) NR 2 Vibracore -59.3 8.0 SAND, silty, mostly sand to gravel-sized quart, some silt, little silt, some fine to medium-grained sand-sized quart, some silt, little silt, tor 6/1 greenish gray (SM) NR 2 Vibracore -69.3 8.0 SAND, silty, mostly sand to gravel-sized quart, some silt, little silt, tor 6/1 greenish gray (SM) 3 -59.3 -63.8 12.5 NR 1 -59.3 -63.8 12.5 NOTES: 1. USACE Jacksonville is the custodian for these original files. -63.8 -63.8 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Abbreviations: NR = Not Recorded.	ELEV. DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	REC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE
-52.3 1.0 ··· SAND, poorly-graded, mostly fine-grained and-sized upart, three sit, trace		+			<u> </u>					-
-52.3 1.0 Sand-sized quartz, trace sitt, trace NR 1 Vibracore -52.3 1.0 Sand-sized quartz, trace sitt, trace NR 1 10 107R 6/1 gray (SP) Sand-sized sand-sized quartz, trace sitt, trace sit, trace sitt, trace sit	-51.3 0.0	$+ \cdot \cdot +$	SAND poorly-graded mostly find grained				-51.3			\mid
-52.3 1.0 medium-grained sand-sized sand-sized sand-sized sand-sized guartz, little sit, two sand to gravel-sized shell, 10Y 4/1 dark greenish gray (SM) -52.3 -52.3	Ę		sand-sized quartz, trace silt, trace	NR	1			Vibracore		
-59.3 8.0 -59.3 -59.3 -63.8 -59.3 -63.8 -59.3 -63.8 -59.3 -63.8 -59.3 -63.8 -59.3 -63.8 -59.3 -63.8 -59.3 -63.8 -59.3 -63.8 -59.3 -63.8 -59.3 <t< td=""><td>-52.3 1.0</td><td></td><td>medium-grained sand-sized shell,</td><td></td><td>Ľ</td><td></td><td>-52.3</td><td></td><td></td><td></td></t<>	-52.3 1.0		medium-grained sand-sized shell,		Ľ		-52.3			
-62.2 10.9 -11 SAND, poorly-graded with silt, some fine to medium-grained sand-sized quartz, some sand to gravel-sized limestone up to 3/4", few silt, 5GY 6/1 greenish gray (SP-SM) NR -63.8 Vibracore -63.8 12.5 -11 NOTES: -63.8 -63.8 Abbreviations: NR = Not Recorded. NR = Not Recorded. - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	-59.3 8.0		quartz, little silt, few sand to gravel-sized shell, 10Y 4/1 dark greenish gray (SM) -At EI53.6 Ft., low plasticity, some fine to medium-grained sand-sized quartz, some silt, little sand to gravel-sized shell, 10GY 4/1 dark greenish gray		2		-59.3	Vibracore		
-63.8 12.5 SAND, poorly-graded with silt, some fine to medium-grained sand-sized quartz, some sand to gravel-sized limestone up to 3/4", few silt, 5GY 6/1 greenish gray (SP-SM) -63.8 -63.8 12.5 -63.8 12.5 -63.8 -63.8 2 NOTES: -63.8 3 1. USACE Jacksonville is the custodian for these original files. Abbreviations: NR = Not Recorded. 2 Soils are field visually classified in accordance with the Unified Soils -63.8	-62 2 - 10.9		shell up to 3/4", little fine-grained sand-sized)	3	-		Vibracore		
-63.8 12.5 sand to gravel-sized limestone up to 3/4", few silt, 5GY 6/1 greenish gray (SP-SM) -63.8 -63.8 -63.8 12.5 NOTES: -63.8 Abbreviations: NR = Not Recorded. - 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Abbreviations: NR = Not Recorded.										
NOTES: Abbreviations: 1. USACE Jacksonville is the custodian for these original files. Abbreviations: 2. Soils are field visually classified in accordance with the Unified Soils Abbreviations:	F F		sand to gravel-sized limestone up to 3/4",							
1. USACE Jacksonville is the custodian for these original files. NR = Not Recorded. 2. Soils are field visually classified in accordance with the Unified Soils Image: Control of the custodian for the custodian f	-63.8 [12.5	<u> </u>								╞──┣
			 USACE Jacksonville is the custodian for these original files. Soils are field visually classified in 					corded.		
			accordance with the Unined Solls					(Continued)		

DRILLING LOG (Cont. Sheet)					Boring Designation VB-SJSP06-9 INSTALLATION SHEET 2							
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	lohns Coun	ity, FL	_ SPP		COORDINA State F					VERTICAL MLW		
	ON COORDI	-			ELEVATIO					•		
X =	582,198	_	2,045,156		-51.3 F	t.						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MA	TERIAI	LS	RÉC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/	N-VALUE	
		-	Classification System.				•					
			3. Elevation based on predict	ed tide	e							
			4. Laboratory Testing Results	;								
			SAMPLE SAMPLE LAU ID DEPTH CLAS	BORA SSIFIC	TORY							
			1 0.0/1.0 2 1.0/8.0	SP' SP-SI	 м*							
			3 8.0/10.0 *Lab visual classification base curve. No Atterberg limits.	SP-SI d on g								
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