DR	ILLING	LOG	DIVISIO			IN	ISTAL					SHEET		7
1. PRO			Souti	h Atlantic					lle Dis			OF 2	SHEETS	4
	St Johns Co	unty CD	Þ							SYSTEM/DATUM HORIZ	S ONTAL	VERTICA	AL	-
l '	or joints CO	unity SP	1			"				;	D83	NAVI		
2. BOI	RING DESIGN	IATION	i i	LOCATION C	OORDINATES	11				RER'S DESIGNATION OF DRI		AUTO HAM		1
	VB-SAFS15-	-	! !		88 Y = 2,029,32			vibra	core			MANUAL H		
-	LLING AGEN		05041		CONTRACTOR FILE		2. то	TAL S	AMPL	LES	:D	UNDISTURB	ED (UD)	
	Corps of Eng		- CESAJ	i	6738-15-5449					6	- !	0		-
	Talon Smith					13	з. то	TAL	IUMB	ER CORE BOXES 0				4
5. DIR	ECTION OF E	BORING		DEG. FROM	BEARING	14	1. EL	EVAT	ION G	ROUND WATER				
	VERTICAL INCLINED			VERTICAL		15	5. DA	TE BO	RING	STAR	r ed 06-15	07-06		
6. THI	CKNESS OF	OVERBL	JRDEN	N/A	ı	16	6. EL	EVAT	ION T	OP OF BORING -8.9 Ft.				
7. DEF	TH DRILLED	INTO R	оск	V/A		17	7. ТО	TAL F	RECOV	/ERY FOR BORING 73 9	%			
						18				ND TITLE OF INSPECTOR				
o. 101	TAL DEPTH O		19.	.9 Ft.				_	nanie	A. Setser, P.E., Geotechn	cal Engi			-
ELEV.	DEPTH	LEGEND	CL	ASSIFICATIO	ON OF MATERIALS		REC.	BOX OR SAMPLE	RQD OR UD	REN	ARKS	BLOWS/	N-VALUE	
-8.9	0.0									-8.9				
-9.2										-0.9			+	十0
	<u> </u>	ŀ∷∏	SAND, poo	orly-graded, i	mostly fine-grained fine-grained sand-	sized	1450				acore			Ŀ
	-	l.•.•.N	shell, trace	e organic ma	tter, weak reaction	with		1		-9.9			+	+
	-	l∷:. \	HCI, 2.5Y	7/2 light gray	(SP)			<u> </u>						Ė
	L			3 Ft., trace s	nue organic matter hell									Ł
	-	<u> </u> ∷:	,	o,										ŀ
	F	l:::l								-11.9				Ė
	-			8 Ft., few me	edium-grained sand	d-sized		2		-11.9			+	$^{+}$
	-		shell -At Fl -124	4 Ft little fin	ne to medium-graine	ed								ŀ
	-				g reaction with HCl									L
	<u> </u>													Ė
	-			4 Ft., few me k reaction wit	edium-grained sand	d-sized								۱,
	F			9 Ft., trace s										-5
	<u> </u>									44.0				ţ
	-	.∵. \	-At El14.9	9 Ft., trace s	hell			3		-14.9			+	t
	F	-::-		,										F
														L
	L	[.∵.]												Ł
	-	-::-												F
	F	[:::												F
	ţ	.∵.								47.0				ţ
	F	ŀ∴·∖	-At El17.9	9 Ft., few me	edium-grained sand	d-sized		4		-17.9			+-	t
	F		shell	,	5	-		Ė						F
	<u>L</u>	ŀ∷↓	A4 E1 40 4	0 F4 1944 - C		امد								<u></u>
	Ł	· · · `	sand-sized	9 Ft., little fin d shell, strond	ne to medium-graine g reaction with HCl	ea								ŀ'
	F	[:::	Jan 14 01200	. J.						-19.9				F
	<u> </u>			9 Ft., few fin	e-grained sand-size	ed		5					\top	ŧ
	Ł	1 · · L	shell											Ł
	Ė		At El20.6 sand-sized		e to medium-graine	ed								F
	ţ.	.∵.	Jai iu-SIZEU	a 311 0 11										ţ
	Ł	ŀ∴·∖	At El21.6	6 Ft., some f	ine to medium-grai	ined				-21.9				F
	F.	ľ∵∵k	sand-sized	d shell	_			6						F
	[1• > - •1	sand-sized		edium-grained									F
	L _{4.5}	[:造:]												F
-23.4	14.5	CONER												F
	F	\cup					ı	I						H

SAJ FORM 1836

(Continued)

DK	ILLING	LOC	G (Cont. Sheet)	INSTALLA* Jacksor		Distric	rt.		SHEET 2 OF 2 S	
PROJEC	СТ			COORDINA				JM HORIZONTAL	VERTICAL	
St Jo	ohns County	/ SPP		State P				!	NAVD88	
LOCATI	ON COORDI	NATES	3	ELEVATIO	N ТОР	OF B	ORING	•		
X = 8	877,188 `	_	029,329	-8.9 Ft.						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIAL	LS	REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/	N-VALUE
-28.8	19.9	NO RECOVERY L	NOTES: 1. USACE Jacksonville is the custodia these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classystem. 3. Laboratory Testing Results SAMPLE SAMPLE LABORA ID DEPTH CLASSIFIC CONTROL SAMPLE SAMPLE LABORA ID DEPTH CLASSIFIC CONTROL SAMPLE SAMPLE LABORA ID DEPTH CLASSIFIC CONTROL SAMPLE SAMPL	TORY CATION				-28.8 Abbreviations:		Ž

			DIVISIO	N		IN	STAL	LATIC	ON	<u> </u>		SHEET 1		1
	LLING	LOG	Sout	h Atlantic			Jack	sonvi	lle Dis	strict		OF 2 SI	IEETS	1
1. PRO											e Remarks			1
S	it Johns Co	unty SP	P			10				SYSTEM/DATUM	HORIZONTAL	VERTICAL		
2 808	INC DESIGN	IATION		LOCATION C	OORDINATES					e, FLW (U.S. Ft. RER'S DESIGNATI		NAVD8		4
	ING DESIGN B-SAFS15		! ! -		00RDINATES 012 Y = 2,028,556	11		vibra		RER'S DESIGNATI	ON OF DRILL] AUTO HAMMI] MANUAL HAN		
	LING AGEN		<u>I</u> _	7 - 011,0	CONTRACTOR FILE N					:	DISTURBED	UNDISTURBED		1
C	Corps of Eng	gineers	- CESAJ		6738-15-5449	12	. то	TAL S	SAMPI	LES	6	0	` ,	
4. NAM	E OF DRILL	ER				13	. то	TAL I	NUMB	ER CORE BOXES	0			
	alon Smith					14	. EL	EVAT	ION G	ROUND WATER				1
	ECTION OF I	BORING		DEG. FROM	BEARING						STARTED	COMPLETI	ED	1
_	INCLINED			İ	į	15	. DA	TE BO	ORING	•	07-07-15	07-07-	15	
6. THIC	CKNESS OF	OVERBL	JRDEN	N/A		16	. EL	EVAT	ION T	OP OF BORING	-9.6 Ft.			
7 DED	TU DDU I ED	INTO B	OCK N	1/A		17	. то	TAL F	RECOV	ERY FOR BORING	G 70 %			1
7. DEP	TH DRILLED	INIOR	OCK	N/A		18	. SIC	NAT	URE A	ND TITLE OF INS				1
8. TOT	AL DEPTH C	F BORII	NG 19	.9 Ft.				,						
ELEV.	DEPTH	LEGEND	CL	ASSIFICATIO	ON OF MATERIALS		% REC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE	
														1
-9.6	0.0	 	SAND no	orly-graded	mostly fine-grained					-9.6				+o
	- -	l.:.:l	sand-sized	l quartz, few	fine-grained sand-siz		1380				Vibracore			Ė
	_				th HČl, 2.5Y 7/2 light		. 550			-10.6				Ł
	-	$ \cdot,\cdot\cdot $	gray (SP)					1						F
	-													F
	_	$ \cdots $	-At El11.	6 Ft., trace s	shell, trace silt, no									F
	_	· . ·	reaction w	ith HCl, 2.5\	7/1 light gray									ŀ
										-12.6				Ļ
	_							_2_	1					Ł
	_													ŀ
	_													F
	_													Ė
	_	· · ·												-5
	_													F
	<u>-</u>	ŀ∷k	A. E. 45	0 F1 II						-15.6				Ļ
	_	1	-At El15.0 silt	6 Ft., discon	tinue shell, discontinu	ie		3_	-					Ŀ
	<u>-</u>	.::.	Oiit											F
	_	$ \cdot \cdot $												F
	-													Ŀ
	-	$ \cdot \cdot $												\vdash
	- -	:::												F
	_	[:::: <u> </u>	A 1 = 1 = 1 =	0.54 :	J II					-18.6				上
	-	∷: `	-At El18.	6 Ft., trace s	snell			_4_	-					ŀ
	_	:::												F
	_	::::												-1
	L	$ \cdot \cdot $												F
	<u> </u>	:::												F
	_	:::												Ė
	_	∷:								-21.6				Ł
	<u> </u>				edium-grained sand-s	ized		5						F
-22.4	12.8				reaction with HCl shell, no reaction with	HCI ,				-22.6				Ė
	_	ŀ.[%]`	SAND, por	orly-graded v	with clay, mostly	_		6	1	- <u>-</u> ∠∠.U				t
-23.4	13.8		tine-graine	ed sand-size	d quartz, few clay, no asional clayey sand			Ť	1					F
-20.4	_ 10.0		seams, 50	SY 6/1 green	ish gray (SP-SC)	И								Ė
	- -	8				_								Ė
	L	Щ							1					L

DR	ILLING	LO	G (Cont. Sheet)	INSTALLA* Jackson				<u> </u>	10.0011 12 07 11 0		SHEET OF 2		FFTS]
PROJEC	т			COORDINA				UM	HORIZONTAL	VE	RTICAL			1
	hns County	/ SPP		State P					NAD83	1	NAVD8	8		
	ON COORDI			ELEVATIO					:					1
	377,012			-9.6 Ft.										
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIAL	LS	REC.	BOX OR SAMPLE	RQD OR UD		REMARKS	1	/SWO.IB	1 FT.	N-VALUE	
-29.5	19.9	NO RECOVERY	NOTES: 1. USACE Jacksonville is the custodia these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classystem. 3. Laboratory Testing Results SAMPLE SAMPLE LABORA ID DEPTH CLASSIFIC TO DEPTH CLA	an for ssification TORY CATION	REC.	BOX	ÖR	-29.5 Abbrevia				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N-VAI	- 1
	ORM 183		*Lab visual classification based on gracurve 4. Additional Laboratory Testing 1. Percent Visual Shell 2. Percent Carbonate 2. Percent Visual Shell 3. Percent Visual Shell 4. Percent Visual Shell 5. Percent Visual Shell 6. Percent Visual Shell											3

			DIVISION	N		INS	STAL	LATIC	ON	-		SHEET 1		1
_DRI	LLING	LUG	South	n Atlantic		\perp	Jack	sonvi	lle Dis	strict		OF 2 SI	IEETS	
1. PRO	JECT					9.	SIZE	AND	ТҮР	OF BIT See	e Remarks			
S	t Johns Co	unty SP	Р			10.	. co	ORDI	NATE	SYSTEM/DATUM	HORIZONTAL	VERTICAL		1
			<u>.</u>			_				e, FLW (U.S. Ft.)		NAVD8	8	1
	ING DESIGN		L		OORDINATES	11.				RER'S DESIGNATIO	ON OF DRILL	AUTO HAMMI		
	B-SAFS15		<u> </u>	X = 877,8	360 Y = 2,028,905 CONTRACTOR FILE NO.	╀		vibra	core	T ,	DISTURBED :	MANUAL HAN		-
_	Corps of Eng		CESAJ		6738-15-5449		. то	TAL S	SAMPI		6	ONDISTORBEI 0	(00)	
	E OF DRILL		020/10		0.00 .00	13.	. то	TAL P	NUMB	ER CORE BOXES	0			1
Т	alon Smith					H								┨
	CTION OF	BORING		DEG. FROM	M BEARING	14.	. ELI	EVAI	ION G	ROUND WATER	STARTED	COMPLETI	- n	4
_	VERTICAL INCLINED					15.	. DA	TE BO	ORING	ì	07-07-15	07-07-		
	CKNESS OF	OVERBI	IDDEN	N/A	<u> </u>	16	E	EVAT	ION T	OP OF BORING	-3.6 Ft.	1 07 07		1
6. THI	KNE33 UF	OVERBU	RDEN	IN/A		ᅪ								1
7. DEP	TH DRILLED	INTO R	OCK N	I/A						/ERY FOR BORING				-
8. ТОТ	AL DEPTH C	F BORIN	IG 19.	9 Ft.] ' '	. 310	JIVAI	OKE A	IND THEE OF INSP	LOTOR			
ELEV.	DEPTH	LEGEND	CL	ASSIFICATIO	ON OF MATERIALS		" REC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/	N-VALUE	
$\vdash \vdash$		+-+				\dashv							<u> </u>	1
-3.6	0.0		041:5		0.6					-3.6			<u> </u>	\perp_{0}
	-				mostly fine-grained fine-grained sand-sized	, [1050				\ (ibaaaaaa			ŀ
	-		shell, weak		ith HCl, 2.5Y 7/2 light	· [1650			-4.6	Vibracore			F
	-	.::.	gray (SP)			ı		1		4.0				t
	-													F
	<u> </u>	[::::]												F
	-	.::.												Ė
	_	l∵∵k	At FL -6.4.1	Et little me	dium-grained sand-size	Η								-
	_				reaction with HCI	<u> </u>				-7.1				F
	_					Ī		2						ţ.
		···· `	At El7.4 l	Ft., few fine	e to medium-grained reaction with HCl									F
			3ai iu-3i2cu	Silcii, Wear	Teaction with Hor									F
	_													Ļ
	_													Ė
	-	$ \cdots $	Δt Fl _Q 4 l	Et little fine	e to medium-grained									ŀ
	_				g reaction with HCl									F
	- -									10.6				ļ
	<u> </u>	.::\	At El10.6	Ft., few fir	ne-grained sand-sized			3	1	-10.6			1	t
	-	l∙·[\	shell, weak	reaction w	ith HCI	_		Ť	1					F
	L	[:::]	At El10.9	∌ ⊢t., trace s	shell, no reaction with H	ا ا ^ن								L
	 -	$ \cdots $												ţ
	_													ŀ
	_													F
	<u> </u>	$ \cdots $												Ė
	F	- : -												F
	-	$ \cdot\cdot\cdot $								-14.1				ļ
	<u> </u>	$ \cdots $						_4_	1					L
	-	[· · ·	From El1	14.8 to -14.9	9 Ft., sandy silt seam									ŀ
	- -				·									Ē
	-	::: `	At El15.4 sand-sized	∓ ⊢t., few fir ∣shell weak	ne to medium-grained reaction with HCl									F
	_	1L			ne to medium-grained									ŀ
	<u>L</u>		sand-sized	shell, stron	g reaction with HCl									L
	<u> </u>	$ \cdots $												Ė
	-	· · ·	At El17.3	B Ft., few fir	ne-grained sand-sized					-17.6				ŀ
	_		shell, disco	ontinue silt,	weak reaction with HCI	Ī		5]	-				F
	<u> </u>													Ł

PROJECT St Johns County			I lackeni	rville l	Dietric	*				OF 2 S	HEETS
			COORDINA				UM	HORIZONTAL	VER	RTICAL	
	/ SPP		State P					NAD83	ı	NAVD88	
LOCATION COORDI			ELEVATIO					:	-		
X = 877,860			-3.6 Ft.		· -						
ELEV. DEPTH	LEGEND	CLASSIFICATION OF MATERIAL		ĸĚC.	BOX OR SAMPLE	RQD OR UD		REMARKS		BLOWS/ 1 FT.	N-VALUE
					6		-19.1				
-20.1 16.5	RECOVERY										
-23.5 19.9	ON						-23.5				
		NOTES: 1. USACE Jacksonville is the custodia these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classystem. 3. Laboratory Testing Results SAMPLE SAMPLE LABORA ID DEPTH CLASSIFIC CLASSIF	TORY CATION				Abbrevia	tions:			

			DIVISION			IN:	STAL	LATIC	N	<u> </u>		SHEET 1		1
	LLING	LUG	South	Atlantic			Jack	sonvi	lle Dis	strict		OF 2 SI	IEETS	
1. PRO											e Remarks			1
S	St Johns Co	unty SP	Р			10				SYSTEM/DATUM	HORIZONTAL	VERTICAL		
2 000	ING DESIGN	IATION		OCATION O	COORDINATES	- -				e, FLW (U.S. Ft.) RER'S DESIGNATION		NAVD8		4
	/B-SAFS15		-		203 Y = 2,027,886	"		vibra		RER'S DESIGNATION	ON OF DRILL	AUTO HAMMI		
	LING AGEN		<u> </u>	7(011,1	CONTRACTOR FILE N	0.					DISTURBED :	UNDISTURBE		1
	Corps of Eng		· CESAJ		6738-15-5449	12	. то	TAL S	AMPL	.ES	6	0		
	E OF DRILL	ER				13	. то	TAL P	NUMB	ER CORE BOXES	0			
	alon Smith	ROPING		DEG. FROI	M BEARING	14	. EL	EVAT	ION G	ROUND WATER				
	VERTICAL	BOILING		VERTICAL		45	DA	TE D	RING	<u> </u>	STARTED	COMPLETI	ED	1
	INCLINED				<u> </u>	<u> </u>				•	07-07-15	07-07-	15	-
6. THI	CKNESS OF	OVERBU	IRDEN	N/A		16	. EL	EVAT	ION T	OP OF BORING	-11.8 Ft.			1
7. DEP	TH DRILLED	INTO R	OCK N	/A		- ⊢				ERY FOR BORING				
8 TOT	AL DEPTH C	E BODI	IG 19.9) Et		18	. SIC	NAT	URE A	ND TITLE OF INS	PECTOR			
o. 101	AL DEPIR C		19.8	<i>)</i> Γι.		Д,		,						-
ELEV.	DEPTH	LEGEND	CLA	SSIFICATIO	ON OF MATERIALS		% REC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/	N-VALUE	
-11.8	0.0									-11.8				1
-11.0										-11.0				†(
-12.7	- 0.9						1440				Vibracore			F
-14.1	0.8		SAND, poor	rly-graded,	mostly fine-grained			1		-12.8				F
	-	-::-	sand-sized	quartz, little	e medium to sized shell, trace silt,			<u>'</u>						F
	_				Cl, 2.5Y 7/2 light gray									L
	_		(SP)			.								Ł
	_		reaction wit		silt, discontinue shell, r	10				-14.8				F
	-					İ		2						F
	_	ľ∴¦\	From El1	5.3 to -16.4	4 Ft., intermittent silt									Ŀ
	_		seams											H
	<u>-</u>													F
	_	-::-												Ļ
	_													F,
	-				nedium-grained ng reaction with HCl					-17.8				F
	F							3						F
	- .	[∷:[`	From El1	8.2 to -18.0	6 Ft., shelly sand sean	n								F
-18.9	<u> </u>	ł∷·k	SAND noo	rlv-graded	mostly fine to									F
	}	$[\cdot,\cdot]$	coarse-graii	ned sand-s	sized shell, some									ŀ
-20.0	- _{8.2}				ed quartz, strong reactions Byish brown (SP)	on								F
	-	· · · \	SAND, poor	rly-graded,	mostly fine-grained									ţ
	L	· · ·	sand-sized	quartz, trad	ce silt, trace shell, no	Į				-20.8				Ł
	-				Y 7/1 light gray (SP) ntinue shell, discontinu	e [4						F
	F		silt		,									F
	<u> </u>	.··.												-1
	Ł	$ \cdot \cdot $												E
	-	:::												F
	F	-::												F
	L					Į				-23.8				L
	 	∷: `	At El23.8	Ft., trace	shell			_5_						F
	F	:::	A4 E1	F4	· Constant P	_								Ė
	<u> </u>				/ fine to medium-graind e medium to	ed				05.0				F
	}		coarse-graii	ned sand-s	sized shell, trace silt,	}		6		-25.3				+
	F.	VER.	strong react	tion with H	Cl, 2.5Y 6/1 gray									F
-26.2	- 14.4	<u> </u>												ţ
	L	00											1	L

SAJ FORM 1836

DR	ILLING	LOC	G (Cont. Sheet)	INSTALLAT		Diet	~ 4		SHEET 2	
ROJEC			,	Jacksor COORDINA				UM HORIZONTAL	OF 2 S	HEETS
	ohns County	/ SPP		State Pl				l .	NAVD88	
	ON COORDI			ELEVATIO				-		
X = 8	377,203	Y = 2,	027,886	-11.8 F						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIA	LS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARI	BLOWS,	N-VALUE
-31.7	19.9	NO RECOVERY L	NOTES: 1. USACE Jacksonville is the custodithese original files. 2. Soils are field visually classified in accordance with the Unified Soils Clasystem. 3. Laboratory Testing Results SAMPLE SAMPLE LABORALD DEPTH CLASSIFITED DEPTH CLASSIFITED DEPTH CLASSIFITED SAMPLE SAMPL	STORY CATION ** * * * * * *				-31.7 Abbreviations:		X X

DDI	LLING	1.06	DIVISIO	N		IN	STAL	LATIC	ON	<u> </u>		SHEET 1		7
		LUG	South	n Atlantic		┺		_	ille Di			OF 2 SH	IEETS	1
1. PRO			_								e Remarks			1
S	St Johns Co	ounty SP	Р			10				SYSTEM/DATUM	HORIZONTAL	VERTICAL		
2. BOR	ING DESIG	NATION	- 1	OCATION C	OORDINATES	11				e, FLW (U.S. Ft.) RER'S DESIGNATIO		NAVD8		1
_	/B-SAFS15		-		i33 Y = 2,027,998			vibra				MANUAL HAN		
_	LING AGEN				CONTRACTOR FILE NO.		. то	TAI 9	SAMPI		i	UNDISTURBED	(UD)	1
	Corps of En		- CESAJ		6738-15-5449	+					5	0		4
	alon Smith					13	. то	TAL I	NUMB	ER CORE BOXES	0			4
	ECTION OF			DEG. FROM	BEARING	14	. EL	EVAT	ION G	ROUND WATER				
	VERTICAL INCLINED			VERTICAL		15	. DA	TE BO	ORING	i	STARTED	COMPLETE		
				! N//A		+		-			07-07-15	07-07-1	15	1
6. THIC	CKNESS OF	OVERBU	JRDEN	N/A		ᅪ				OP OF BORING	-11.7 Ft.			-
7. DEP	TH DRILLE	INTO R	OCK N	I/A						VERY FOR BORING				-
8. TOT	AL DEPTH (OF BORI	NG 19.	8 Ft.		٦.٠				and title of ino.	LOTOR			
ELEV.	DEPTH	LEGEND	CL	ASSIFICATIO	ON OF MATERIALS		" REC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/	N-VALUE	
		1 1				\dashv							T	1
-11.7	0.0	 	SAND nor	orly-graded	mostly fine-grained	\dashv				-11.7			+-	╀
	F	.:::	sand-sized	quartz, little	e fine to medium-grained									F
	Ļ			l shell, trace 7/2 light gra	silt, strong reaction with (SP)	ו ו								L
	_	···	1101, 2.01	772 light gra	y (Oi)		497				Vibracore			Ŀ
	-	ŀ∷ŀ	-At El13.4	Ft., some	fine to medium-grained		491				VIDIACOIE			ŀ
	F		sand-sized	shell, 2.5Y	7/1 light gray									F
	-									-14.7				þ
	_				edium to coarse-graine	t b		1	1	-14.7			+	t
	_			shell, disco	ntinue silt shell, trace silt, no				1					ŀ
	_		reaction wi		irien, trace siit, no									F
	-													F
	_	.::.												L
	_													t
	_				e-grained sand-sized weak reaction with HCl					-17.7				Ł
	F	·. :-	orion, alooc	initiae ont,	weak reaction with rior			2						F
	-	$ \cdots $												F
	<u> </u>	·:·:												F
	ţ	::::												þ
	F	 ∷:												H
	-	:::												F
	Ė							2	ł	-20.7				丰
	-	:::	At El20.8 shell_trace	3 Ft., few me	edium-grained sand-size reaction with HCl	ed		3_	1					ţ
	Ł		orion, trace	. Siit, Sti Orig	. Saddon With HOI									Ŀ
	_	:::												F
	F	[::::												F
	<u> </u>	:::												F
-23.6	- - 11.9	:::k	A+ E1 00 :	1 []4	adly agad ====					22.7				ţ
	_	 ∷: `	'AT EI23.4 'SAND. 1900	+ ⊢t., very sł orly-graded.	nelly sand seam mostly sand to	}		4	1	-23.7			+-	t
-24.2	12.5	J·.∴k	gravel-size	d shell, som	e fine to medium-graine	ed		广	1					F
	Ļ	[::: \	sand-sized 2.5Y 7/2 lin	l quartz, disc ght gray (SF	continue silt,									L
	ţ	$1 \cdots V_{\ell}$	SAND, poo	orly-graded,	mostly fine-grained									t
	L		sand-sized	quartz, little 6/1 gray (S	e fine-grained sand-size	d		L		-25.7				\mathbf{F}
	F	1. #	From El2	24.9 to -25.1	Ft., shell seam	Ì		5]					F
-26.6	149	·≍· '	At El25.1	Ft., trace s	shell, trace silt, no									ţ

SAJ FORM 1836

DR	ILLING	LOC	G (Cont. Sheet)	INSTALLA Jackson			~†				SHEET OF 2		ETS
PROJEC	CT			COORDINA				JM	HORIZONTAL	VE	RTICAL		\dashv
	ohns County	/ SPP		State P					NAD83	1	NAVD8	3	
	ON COORDI			ELEVATIO					•	-			
	877,533			-11.7 F									
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIA	ALS	REC.	BOX OR SAMPLE	RQD OR UD		REMARKS	5	BLOWS/	- F.	N-VALUE
-31.5	19.8	NO RECOVERY LE	NOTES: 1. USACE Jacksonville is the custod these original files. 2. Soils are field visually classified in accordance with the Unified Soils Clasystem. 3. Laboratory Testing Results SAMPLE SAMPLE LABOR ID DEPTH CLASSIF 1 3.0/3.3 Si 2 6.0/6.3 Si 3 9.0/9.3 Si 4 12.0/12.3 Si 5 14.0/14.3 Si 5 14.0/14.3 Si 14.0/14.3 Si 14.0/14.3 Si 14.0/14.3 Si 14.0/14.3 Si 14.0/14.3 Si 14.0/14.3 Si 14.0/14.3 Si 15.0/14.3 Si 16.0/14.3	ATORY ICATION 		75 T		-31.5 Abbrevia	tions:				Ż

			DIVISIO	N		INS	TAL	LATIC	N	<u> </u>		SHEE	T 1	
	LLING	LUG	South	n Atlantic		<u> </u>	Jack	sonvi	lle Dis	strict		OF 2	2 SHEE	rs
1. PRO	JECT					9.	SIZE	AND	TYPE	OF BIT See	Remarks			
S	t Johns Co	unty SP	Р			10.	CO	ORDI	NATE	SYSTEM/DATUM	HORIZONTA	L VERT	ICAL	
										e, FLW (U.S. Ft.)	NAD83	N/	AVD88	
	ING DESIGN		Ļ	OCATION COO		11.				RER'S DESIGNATION	OF DRILL	AUTO HA		
	B-SAFS15-				Y = 2,027,367	_		vibra	core	1		MANUAL		
	LING AGEN		OFCA I	i co	NTRACTOR FILE NO.	12.	TO.	TAL S	SAMPL		STURBED	UNDISTU	RBED (U	D)
	orps of Eng		CESAJ	i_	6738-15-5449	 					7	0		-
	alon Smith					13.	то	TAL I	IUMB	ER CORE BOXES	0			
	CTION OF E	BORING		DEG. FROM VERTICAL	BEARING	14.	ELI	EVAT	ION G	ROUND WATER				
	VERTICAL			VERTICAL		15	DA.	TE B	RING		STARTED	COMP	LETED	
	INCLINED			i	i	ļ				•	07-07-15	07	-07-15	_
6. THIC	KNESS OF	OVERBU	IRDEN	N/A		16.	ELI	EVAT	ION T	OP OF BORING	-12.7 Ft.			
7. DEP	TH DRILLED	INTO R	OCK N	I/A		17.	TO.	TAL F	RECOV	ERY FOR BORING	80 %			
						18.	SIG	NAT	URE A	ND TITLE OF INSPE	CTOR			
8. TOT.	AL DEPTH O	F BORIN	IG 19.	9 Ft.				,						
ELEV.	DEPTH	LEGEND	CLA	ASSIFICATION	OF MATERIALS	F	% REC.	BOX OR SAMPLE	RQD OR UD		REMARKS		BLOWS/	N-VALOE
40-										40.7				
-12.7	0.0		SAND non	orly-graded mo	stly fine-grained	+	-			-12.7				- 0
	-	l.:::l	sand-sized	quartz, few me	edium-grained	1	580				Vibracore			Ė
	_				t, weak reaction with					-13.7				
	-	·	ПСI, 2.51 t	6/1 gray (SP)				_1_						-
	-													Ė
	_	[]												H
	-	ŀ∷⊹k	At FI -15 1	1 Ft little sand	to gravel-sized shell,									F
	_	l \	strong read	ction with HCI						-15.7				
	=			15.5 to -15.7 Ft		.		_2_						F
	- -		sand-sized		um to coarse-grained	'								Ė
	_	· · · · \	At El16.0		II, weak reaction with									-
	-		HCI At El 171	1 Et fow fine t	o medium-grained									F
	- -				eaction with HCl									- -5
	-				um to coarse-grained									ŀ
	=	[::::	sand-sized	shell, discontin	nue siit					-18.7				F
	- -					F		3		-10.7				+
	-													-
	<u>-</u>													F
	-	:::												ţ
	_	:::\		20.04 21.5=						-20.7				}
	_		From El2 seam	20.6 to -21.0 Ft	., very shell sand	Γ		4						Ŧ
	-	l∴∴h⁄	At El20.7		e to medium-grained					04.7				ţ
	_			quartz, some	sand to gravel-sized	 -	\dashv	5		-21.7			-+	+
	-		shell At El21.3	3 Ft., trace silt,	trace shell. no									F
	<u>-</u>			th HCl, 2.5Y 7/										- -1
	-	·::·												F'
	-	$ \cdots $												ţ
	_	[.		. =										F
	-	∷: `	At El23.9 shell disco	Ft., few medi	um-grained sand-size ak reaction with HCl	d	_	6		-24.2				\dashv
	_	:::	ori c ii, uiscu	milliuc Siil, Wea	an reaction with mol		}	_0_						Ŀ
	_	$ \cdot\cdot\cdot $												ŀ
	- -	[::::												ţ
	_	-::- -::-												\vdash
	_	:::												F
	_	[::::				L				-26.7				上
	-	.:: <u> </u>						_7_						ŀ
	- -	ŀ∷·l												ţ

DRI	LLING	LOC	G (Cont. Sheet)	INSTALLA* Jackson		Dietric	~ 1				SHEE [*]		FTS]
PROJEC	т			COORDINA				JM	HORIZONTAL	VE	RTICAL			1
	- hns County	/ SPP		State P					NAD83	1	NAVD8	8		
	ON COORDI			ELEVATIO					•	•				1
	377,517			-12.7 F				_						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIAL		" REC.	BOX OR SAMPLE	RQD OR UD		REMARKS	3	BI OWS/	T.	N-VALUE	
-28.5	15.8		CAt El27.5 Ft., some sand to gravel-s shell, 2.5Y 6/1 gray	ized										-1 - - - -
		NO RECOVERY												
-32.6	19.9							-32.6						E
			NOTES:					Abbrevia	itions:					-2 -
			USACE Jacksonville is the custodia these original files.	an for										-
			Soils are field visually classified in accordance with the Unified Soils Clas System.	ssification										
			Laboratory Testing Results											Ŀ
			SAMPLE SAMPLE LABORA ID DEPTH CLASSIFIC											-
			1 1.0/1.3 SP* 2 3.0/3.3 SP* 3 6.0/6.3 SP* 4 8.0/8.3 SP* 5 9.0/9.3 SP* 6 11.5/11.8 SP* 7 14.0/14.3 SP*	•										- 2
			*Lab visual classification based on gra	dation										F
			4. Additional Laboratory Testing											E
			 Percent Visual Shell Percent Carbonate Percent Visual Shell Percent Visual Shell Percent Visual Shell 											
														L
														F

			DIVISIO	N		INS	TALL	ATIC	N	<u> </u>			SHEET	1	7
	LLING	LUG	South	n Atlantic		J	lacks	onvi	lle Dis	strict			OF 2 5	SHEETS	<u>.</u>
1. PRO	JECT					9. 9	SIZE	AND	TYPE	OF BIT See	Remarks				
S	t Johns Co	unty SP	Р			10.	coc	RDI	NATE	SYSTEM/DATUM	HORIZONT	AL	VERTICA	L	1
										e, FLW (U.S. Ft.)	NAD83		NAVE)88	4
_	ING DESIGN		įL	OCATION COO		11.				RER'S DESIGNATION	N OF DRILL	_	ЈТО НАМІ		
	B-SAFS15-		<u> </u>		Y = 2,027,407 INTRACTOR FILE NO.	├	V	/ibra	core	' D	ISTURBED		ANUAL HA		-
_	Corps of Eng		- CESAJ		6738-15-5449	12.	тот	'AL S	AMPL		6	i	0 0	(סט)	
	E OF DRILL		020/10		0.00 .0 0	13.	тот	ΔΙ Ν	IUMR	ER CORE BOXES	0				1
Т	alon Smith					-					-				-
-	CTION OF E	BORING		DEG. FROM VERTICAL	BEARING	14.	ELE	VAT	ON G	ROUND WATER	1				
	VERTICAL INCLINED			i		15.	DAT	E BC	RING	ì	STARTED 07-06-1	5	07-06		
		0\/EDDI		N/A	<u>'</u>	40		\/AT	ON T	OP OF BORING	-	5	07-00	-10	1
6. IHIC	CKNESS OF	OVERBU	IKDEN	N/A		┝					-14.7 Ft.				-
7. DEP	TH DRILLED	INTO R	OCK V	I/A						/ERY FOR BORING IND TITLE OF INSPE	75 %				-
8. TOT	AL DEPTH O	F BORIN	NG 19.	9 Ft.		'".	310	· TAI	JRE A	IIILE OF INSPI	LUIUR				
ELEV.	DEPTH	LEGEND	CL	ASSIFICATION	OF MATERIALS	R	% EC.	BOX OR SAMPLE	RQD OR UD		REMARK	s	BLOWS/	N-VALUE	
						+	十							\top	1
-14.7	0.0		CAND SC	orly graded as-	atly find aroined	\perp	_			-14.7				+	\downarrow_{0}
	<u> </u>			ony-graded, mo quartz, little m	stly fine-grained edium-grained	1,1	500				Vibracor	a			ļ
	_	l.·.·.l	sand-sized	shell, trace silt	, strong reaction with	'`	300			-15.7	VIDIACON	•			ŀ
	-	-::-	HCI, 2.5Y	7/2 light gray (SP)			1							F
	-														Ė
	_														F
	- -	-:::													F
	-					L				-17.7					Ļ
	-			7 Ft., little medi ∣shell, discontir	um to coarse-grained		ŀ	2							ŀ
	- -				to medium-grained										F
	-		sand-sized	shell											F
	_	.·.·													F
	_	·													-5
	-			,	I, weak reaction with										ļ
	_			7/1 light gray 5 Ft trace silt.	no reaction with HCl,	L				-20.7					Ŀ
	-		2.5Y 6/1 gr		,			3_							ŀ
	- -														F
	_	1	At El21.5 gray	Ft., discontini	ue silt, 2.5Y 7/1 light					00.0					F
	E	:·::	J. ~J			\vdash	+	4		-22.2				+	\dagger
	L				rained sand-sized			-							F
	<u> </u>			reaction with I	⊣Cl ue shell, no reaction										ļ.
	_		with HCl	,											Ł
	_	.∵.													-
	-	:::\ <u> </u>	A+ E1	- F4 4 ' '											F
	-	[:::: `	'AT EI24.5	5 Ft., trace she	I					25.2					-1
	-	ŀ∷·[\vdash	\dashv	5		-25.2				+	+
	<u> </u>	::: `	At El25.4	1 Ft., few fine-g silt, weak read	rained sand-sized										F
	_	::::	onen, nace	oni, wear real	MOIT WILLT FOI										ţ
	L	∷:													Ł
	_				d to gravel-sized										F
	_	[::::	snell, stron	ig reaction with	HUI										ţ
	E				rained sand-sized										F
	_	:::	shell, weak	reaction with I	HCI										F
	_	:::: \	From FL =2	28 6 to -28 0 Et	., strong reaction with	, L	\perp			-28.7				\bot	上
	-	ŀ∴∵N	HCI, shell s	seam	-	'	-	6							ŀ
20.7	450			9 Ft., some me	dium to										Ę

DRI	LLING	LO	G (Cont. Sheet)	INSTALLA* Jackson		Distri	nt .			SHEET 2 OF 2 SI	
PROJEC	т			COORDINA				UM HORIZONTAL	VER	TICAL	
St Jo	hns County	y SPP		State P					1	NAVD88	
OCATI	ON COORDI	NATE	S	ELEVATIO		OF B	ORIN	G			
X = 8	378,327	_	027,407	-14.7 F	t.	_					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIAL	LS	REC.	BOX OR SAMPLE	RQD OR UD	REMARK	s	BLOWS/	N-VALUE
			coarse-grained sand-sized shell, N 6/	gray /							
		RECOVERY									
		ON.									
-34.6	19.9							-34.6			
			NOTES: 1. USACE Jacksonville is the custodia these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classystem. 3. Laboratory Testing Results SAMPLE SAMPLE LABORA ID DEPTH CLASSIFIC 1 1.0/1.3 SP* 2 3.0/3.3 SP* 3 6.0/6.3 SP* 4 7.5/7.8 SP* 5 10.5/10.8 SP* 6 14.0/14.3 SP* *Lab visual classification based on gracurve 4. Additional Laboratory Testing 1 Percent Carbonate 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Visual Shell 5 Percent Visual Shell 6 Percent Visual Shell 6 Percent Visual Shell	TORY CATION				Abbreviations:			

DBI	LLING	LOG	DIVISIO	ON		INSTA	LLATI	ON			SHEET 1		
			Sou	th Atlantic		_	ksonv				OF 2 SI	HEETS	4
1. PRO										Remarks	•		1
S	t Johns Co	unty SPF	•			10. C			SYSTEM/DATUM	HORIZONTAL	VERTICAL		
			-			44 -			e, FLW (U.S. Ft.)	NAD83	NAVD8		4
	ING DESIGN B-SAFS15-			V = 070 444	Y = 2,027,645	11. N		ACTU Icore	RER'S DESIGNATIO		AUTO HAMMI MANUAL HAI		
	LING AGEN		i		T = 2,027,045 ITRACTOR FILE NO.		VIDIA	core	! D		NDISTURBEI		-
	corps of Eng		CESAJ	1	6738-15-5449	12. T	OTAL :	SAMPI	LES	6	0	- (,	
	E OF DRILL			'		13. T	OTAL	NUMB	ER CORE BOXES	0			1
	alon Smith					14. F	ΙΕVΔΤ	ION G	ROUND WATER				1
	CTION OF E	BORING		DEG. FROM VERTICAL	BEARING		LLVAI	.0	NOOND WATER	STARTED	COMPLET	FD	-
	INCLINED					15. D	ATE B	ORING	•	07-07-15	07-07-		
6. THI	KNESS OF	OVERBU	RDFN	N/A		16. E	LEVAT	ION T	OP OF BORING	-7.1 Ft.	, 0. 0.		1
						-			/ERY FOR BORING	81 %			1
7. DEP	TH DRILLED	INTO RO	СК	N/A					ND TITLE OF INSPI				-
8. ТОТ	AL DEPTH O	F BORIN	G 19	9.9 Ft.									
ELEV.	DEPTH	LEGEND	CI	LASSIFICATION O	F MATERIALS	REC	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE	
									_ ,				
-7.1	0.0		SAND no	oorly-graded, mos	tly fine-grained	\dashv	+	\vdash	-7.1			+	 0
	-	l.∵.l s	and-size	d quartz, trace sil	t, no reaction with	160	0			Vibracore			F
	-	-	HCI, 2.5Y	8/2 pale yellow	(SP)				-8.1				Ŀ
	-	· ·					1						-
	- -	[:::]											ţ
	_	[:·:·]											F
	-	-: :-											F
	_	····[-10.1				Ŀ
	-	[.·[~/	At El10.	.1 Ft., trace shell,	discontinue silt		2]					F
	_	.::.											Ė
	_												\vdash
	-												F
	_												<u>-</u> 5
	-	·:::											F
	= =	·.·:							10.1				ţ
	_	I. · ·. - /	At El13.	.1 Ft., trace silt			3	1	-13.1			+	╁
	-	-::-		,			Ť	1					F
	_	·.·:										1	L
	-											1	ŀ
	-			.6 Ft., 1" silt sean									F
	_	· \^	At El15.	.0 Ft., little fine-g	rained sand-sized							1	F
	-		snell, wea gray	ak reaction with H	Cl, 2.5Y 7/2 light							1	ŀ
	_	l.'.'.l '		1 Et fourfine ==	ainad aand aizad		1.	-	-16.1			1	Ļ
	-			.1 Ft., few fine-gr continue silt	ained sand-sized		4	1					t
	- -	: : [\ <i>\</i>	At El16	.6 Ft., 2.5Y 8/2 p	ale yellow								-
	_	[:::]											-1
	-	-::: -:::										1	ŀ
	_	: : :										1	F
	-	:·::										1	ţ
	-	[.∵							-19.1			1	-
	- -	ŀ∷·⊳∕	At El19.	.1 Ft., trace silt, o	iscontinue shell		5	j	10.1			1	t
	-	[· · · ·]										1	ŀ
	_	<u> . : : </u>										1	L
	-	[.∵										1	ŧ
	-	-::- <u> </u>										1	F
	- -			.0 Ft., strong read	ction with HCI, 1"							1	F
	-		shell sean At El21.	n .1 Ft., some sand	I to gravel-sized								ŀ

PROJECT St Johns Co LOCATION CO X = 878,44 ELEV. DEP	ORDINA 44 Y	ATES		Jackson COORDINA					1		OF 2	·	
St Johns Co LOCATION CO X = 878,44	ORDINA 44 Y	ATES				STEM	I/DAT	UM	HORIZONTAL	VE	RTICAL		
X = 878,44	ORDINA 44 Y	ATES		State P					NAD83	1	NAVD88		
X = 878,44	44 Y		•	ELEVATIO					·	•			┨.
ELEV. DEP	РТН			-7.1 Ft.									
		LEGEND	CLASSIFICATION OF MATERIAL	.s	ĸ.	BOX OR SAMPLE	RQD OR UD		REMARKS		BLOWS/	: E	
-23.1 16.0	0 .		\shell, discontinue silt At El22.1 Ft., little fine to medium-gr sand-sized shell	ained		6							
		NO RECOVERY											
-27.0 19.9	9							-27.0					
	T		NOTES:					Abbrevia	tions:				
			1. USACE Jacksonville is the custodia these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classystem. 3. Laboratory Testing Results SAMPLE SAMPLE LABORA ID DEPTH CLASSIFIC CLAS	TORY CATION									

DBI	LLING	106	DIVISIO	N		INSTA	LLATI	ON			SHEET 1		1
		LUG	South	n Atlantic		Jac	ksonv	ille Dis	strict		OF 2 SI	IEETS	
1. PRO										Remarks			
S	t Johns Co	unty SF	PP			10. C			SYSTEM/DATUM	HORIZONTAL	VERTICAL		
2. POP	ING DESIGN	ΙΔΤΙΩΝ		LOCATION COOR	DINATES	11 84			e, FLW (U.S. Ft.) RER'S DESIGNATION	NAD83	NAVD8		-
	B-SAFS15-		' "		Y = 2,027,137	11. IVI		core	RER 3 DESIGNATION		AUTO HAMMI MANUAL HAN		
	LING AGEN		l.		TRACTOR FILE NO.	40 -					JNDISTURBE		1
	orps of Eng		- CESAJ	6	738-15-5449	12. T	OTAL :	SAMPI	.ES	6	0		1
	E OF DRILL	ER				13. T	OTAL	NUMB	ER CORE BOXES	0			
	alon Smith	RORING	•	DEG FROM	BEARING	14. E	LEVAT	ION G	ROUND WATER				
\boxtimes	VERTICAL		•	DEG. FROM VERTICAL	!	15. D	ATE B	OPING	.	STARTED	COMPLETI	ED	1
	INCLINED			!	<u>:</u>	13. 0	A 1 E B	OKING	•	07-07-15	07-07-	15	
6. THIC	KNESS OF	OVERB	URDEN	N/A		16. E	LEVAT	ION T	OP OF BORING	-8.0 Ft.			
7. DEP	TH DRILLED	INTO I	ROCK N	I/A					ERY FOR BORING	70 %			1
8 TOT	AL DEPTH O	E BODI	ING 10	9 Ft.		18. S	IGNAT	URE A	ND TITLE OF INSPE	CTOR			
0. 1017	AL DEFIN O	— г	19.	.911.			,	1					ł
ELEV.	DEPTH	LEGEND	CL	ASSIFICATION O	F MATERIALS	REC	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/	N-VALUE	
-8.0	0.0								-8.0				
-0.0	-	 		orly-graded, most			+		-0.0				+0
	_	-∷-		l quartz, some sa silt, strong react	and to gravel-sized	140	0			Vibracore			E
	_	: : :	2.5Y 6/1 gi		tion with rici,		1	1	-9.0				F
	-	:::	J	, , ,			-	1					Ė
	_	ŀ∷·ŀ	∽At El9.7	Ft., 2.5Y 5/1 gra	y								Ł
	-	:.:											F
-10.8	2.8												Ė
	_	I+!+!k		y, mostly fine-gra	ined sand-sized strong reaction with								F
	-	<u> </u>		sional clay seams		 	2	4	-11.5			1	Ŧ
40.0	-		greenish g				-	1					L
-12.3	4.3	11111		11.1 to -12.0 Ft., orly-graded, most		-			-12.5				Ŀ
	-		sand-sized	l quartz, little san	d to gravel-sized		3	1					ŀ.
	-	ŀ∷·∖∖	shell, trace	e silt, strong react dark greenish gra	tion with HCI,								- 5 -
	-	[:::: `	At El13.0	OFt., few sand to	gravel-sized shell,				44.0				Ė
	_	ŀ∵⊹ŀ	2.5Y 7/1 lig				4	1	-14.0				H
	-		At El 14.0) Ft., little sand to	o gravel-sized shell			1					F
	<u>-</u>	l∷∷h	`At El14.8	3 Ft., few fine to	medium-grained								L
	-	ŀ∷·∖		shell, weak read		,							Ŀ
	-	:::	AL EL 13.3	ort., trace snell,	no reaction with HC	1							ŀ
	-	$ \cdots $											F
	-	$ \cdots $		4 Ft., little mediu I shell, weak read					-17.0				ţ
	_	$[\cdots]$	sai iu-sizeu	i Silcii, WEdK IEdC	AIOH WILH HOI		5	1	-11.U				t
	=	:::						1					F
40.0													<u>-</u> 1
-18.3	_ 10.3 -	[∴:}	SAND, poo	orly-graded, most	ly fine to								ţ ˙
-19.1	_ 11.1	$ \cdot \cdot $	coarse-gra	ined sand-sized	shell, some								F
-13.1	- 11.1	: : · \		d sand-sized qua th HCl, 2.5Y 4/1	artz, trace silt, strong dark grav (SP)	'							F
	_	[:::]	LSAND, poo	orly-graded, most	ly fine-grained				20.0				ţ
	 	:::	sand-sized	l quartz, trace sh	ell, weak reaction		6	1	-20.0			1	╁
	- -	:::		2.5Y 5/1 gray(SI 3 Ft., few mediur	^{P)} n-grained sand-sized		٢	1					F
		$[\cdot]\cdot [\cdot]$	shell		•								L
	_	·>-	From El2 HCl, shell s		strong reaction with								E
-22.0	- 14.0	المصما	`At El21.6	Ft., little fine gr	avel-sized shell,								F
22.0		3	2.5Y 4/1 da	ark gray		A							F
	-	ECC											ŀ
	Γ	1 % T				1	1	1				1	Γ.

SAJ FORM 1836 JUN 02

DK	ILLING	LOC	G (Cont. Sheet)	Jackson Jackson		Distric	ct				SHEET :	
ROJE	т			COORDINA				JM	HORIZONTAL	VER	TICAL	
	ohns County			State P	lane, l	FLW	(U.S.	Ft.)	NAD83	1	NAVD88	
	ON COORDI			ELEVATIO		OF B	ORIN	3				
X = 8	876,843 `	_	027,137 F	-8.0 Ft.	_							
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIA	LS	REC.	BOX OR SAMPLE	RQD OR UD		REMARK	s	BLOWS/	N-VALUE
-27.9		NO RECOVERY LEGE	NOTES: 1. USACE Jacksonville is the custodi these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classystem. 3. Laboratory Testing Results SAMPLE SAMPLE LABORA	an for ssification	REC.	BOX	OR UD	-27.9 Abbrevia		(\$	BLOV	N-VAI
			1 1.0/1.3 SP 2 3.5/3.8 SM 3 4.5/4.8 SP 4 6.0/6.3 SP 5 9.0/9.3 SP 6 12.0/12.3 SP *Lab visual classification based on gracurve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Carbonate 3 Percent Visual Shell 4 Percent Visual Shell 5 Percent Visual Shell 6 Percent Visual Shell	* * * * * *								

DDI	LLING	100	DIVISIO	N		INS	STAL	LATIC	N			SHEE	T 1	
		LUG	South	n Atlantic		<u> </u>	Jack	sonvi	lle Dis	strict		OF 2	SHEE	TS
1. PRO											Remarks			_
S	t Johns Cou	unty SP	Р			10.				SYSTEM/DATUM	HORIZONTA	ł		
2 POP	ING DESIGN	IATION		OCATION COO	PRINATES	44				e, FLW (U.S. Ft.) RER'S DESIGNATION	NAD83		VD88	_
	B-SAFS15-		"		Y = 2,026,201	' ' '		vibra		KER 5 DESIGNATION	OF DRILL [☐ AUTO HA ☐ MANUAL		R
	LING AGEN		<u> </u>		NTRACTOR FILE NO.	H					STURBED	UNDISTU		
C	orps of Eng	gineers -	- CESAJ		6738-15-5449	12.	то	TAL S	SAMPL	ES	5	0		
4. NAM	E OF DRILLI	ER				13.	то	TAL I	NUMB	ER CORE BOXES	0			
	alon Smith			T	T	14.	EL	EVAT	ION G	ROUND WATER				
	CTION OF E	BORING		DEG. FROM VERTICAL	BEARING	\vdash					STARTED	COMP	LETED	_
_	INCLINED					15.	. DA	TE BO	DRING	1	07-08-15	07-	08-15	
6. THIC	KNESS OF	OVERBL	JRDEN	N/A		16.	EL	EVAT	ION T	OP OF BORING	-8.2 Ft.			
7 DED:	TH DRILLED	INTO D	OCK V	1/A		17.	то	TAL F	RECOV	ERY FOR BORING	71 %			
7. DEP	IN DRILLED	INIUK	OCK	I/A		18.	SIC	NAT	URE A	ND TITLE OF INSPE	CTOR			
8. TOT	AL DEPTH O	F BORII	NG 19.	9 Ft.				,						
ELEV.	DEPTH	LEGEND	CL	ASSIFICATION (OF MATERIALS		% REC.	BOX OR SAMPLE	RQD OR UD		REMARKS	SMO	1 FT.	N-VALUE
	0.0									0.0				
-8.2	0.0		SAND. poo	orly-graded, mo	stly fine-grained	+				-8.2				- -c
	-	l.∵.:l	sand-sized	quartz, little sa	nd to gravel-sized									F
	- -			silt, strong rea ght gray (SP)	ction with HCI,									L
	-	l∷ ∵:[\\	From El9	9.2 to -9.4 Ft., o	organic seam (wood)		473				\ /ibraaara			Ŀ
	-				medium-grained	ľ	4/3				Vibracore			F
	- -			shell, 2.5Y 6/1 Ft few fine to	gray medium-grained									-
-10.8	- 2.6	l: · :: \\	sand-sized	shell	•									Ŀ
-11.3	_3.1	.∵.¦/'	At El10.2 sand-sized	2 Ft., some fine	to medium-grained nal gravel-sized shell,	-		1		-11.2				+
	= =	l:.:: \	2.5Y 5/1 gr	ray	-									Ė
	_	[:··:[/\	SAND, poo	orly-graded, mo d shell, some fi	stly sand to									Ŀ
	-			quartz (SP)	rie-graineu									-
	- -	$ \cdot \cdot \cdot _{l}$	SAND, poo	orly-graded, mo	stly fine to									F
	-	[∷∷][medium-gr to aravel-si	amed sand-size zed shell. 2.5Y	ed quartz, some sand 7/1 light gray(SP)									-5
	_	$ \cdot \cdot _h$	-At El12.1	I Ft., little fine t	o medium-grained									_
	_			shell, weak rea	action with HCI I, no reaction with HC	,		2		-14.2				-
	- -		7 K Z	7 1 1., 1.400 01101	i, no rodolon with re	<u> </u>								-
	-	l ∴	-At El15.0	Ft., few fine-o	rained sand-sized									L
	_	 ∷:	shell	_						-15.7				
	-	l∷k	-Δ† El _16 C) Et little fine t	o medium-grained			3						F
	-				, weak reaction with									F
	- -		HCI	Et como fin-	to medium-grained					17.0				ţ
	_				eaction with HCl	 		4		-17.2				士
	- =	[∷:]												F
	_	ŀ∷⊹k	From FI -1	18.1 to -18 2 Ft	., trace shell, no									<u>-</u> 1
	_			th HCl, 1" silt s										į į
	_	···	A4 E1 40 5	I F 4 All 45 1 1	lk									ŀ
	-	∴∴ `	'AT EI19.1	I Ft., 1" thick si	ıt seam									F
	- -	[∷:]								20.2				ţ
	 	.∵.				 		5		-20.2			_	+
	-	·						Ť						F
	- 	[∷:]												L
	<u>-</u>	.∵. <u> </u>												E
			From El2	21.7 to -21.8 Ft	., silty sand seam									F
-22.4	 14.2	.∺. .∺.				\dashv								F
	-	00												E

SAJ FORM 1836 JUN 02 ⊆

DRILLING	LO	G (Cont. Sheet)	Jackson		Dietric	∀		SHEET 2 OF 2 S	
PROJECT		<u> </u>	COORDINA				JM HORIZONTAL	VERTICAL	
St Johns Coun	ty SPP		State Pl					NAVD88	
OCATION COORE	INATE	S	ELEVATION	і тор	OF B	ORIN	<u> </u>		
X = 877,602	Y = 2,	026,201	-8.2 Ft.						
ELEV. DEPTH	LEGEND	CLASSIFICATION OF MATERIA	LS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARK	BLOWS/	N-VALUE
	NO RECOVERY								
-28.1 19.9	_						-28.1		
		NOTES: 1. USACE Jacksonville is the custodi these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classystem. 3. Laboratory Testing Results SAMPLE SAMPLE LABORA ID DEPTH CLASSIFIC CLASSIFI	TORY CATION				Abbreviations:		

			DIVISION	N		INS	TALL	ATIC	N	<u> </u>		s	HEET 1		1
	LLING	LUG	South	n Atlantic		J	Jacks	sonvi	lle Dis	strict		О	F 2 SI	IEETS	
1. PRO	JECT					9.	SIZE	AND	TYPE	OF BIT See	Remarks]
S	St Johns Co	unty SP	P			10.	CO	ORDI	NATE	SYSTEM/DATUM	HORIZONTA	L VI	RTICAL		1
										e, FLW (U.S. Ft.)	NAD83		NAVD8	8	1
	ING DESIGN		L	OCATION COO		11.				RER'S DESIGNATION	OF DRILL		НАММІ		
	/B-SAFS15-				Y = 2,025,679		\	vibra	core				UAL HAN		4
_	LING AGEN		CECAI	C	ONTRACTOR FILE NO.	12.	TO	TAL S	AMPL		ISTURBED	i	STURBE) (UD)	
	Corps of Eng		- CESAJ	i_	6738-15-5449						6	; 0			-
	alon Smith					13.	то	TAL N	IUMB	ER CORE BOXES	0				4
	ECTION OF E	BORING		DEG. FROM VERTICAL	BEARING	14.	ELE	VAT	ION G	ROUND WATER					
_	VERTICAL			VERTICAL		15.	DΔ1	TE BO	RING	1	STARTED	i	OMPLETI		
\Box	INCLINED			!							07-08-15	5 !	07-08-	15	4
6. THI	CKNESS OF	OVERBU	JRDEN	N/A		16.	ELE	VAT	ION T	OP OF BORING	-6.9 Ft.				
7. DEP	TH DRILLED	INTO R	OCK N	I/A		17.	TO	ΓAL F	RECOV	ERY FOR BORING	76 %				
				0.54		18.	SIG	NAT	URE A	ND TITLE OF INSPI	CTOR				
8. TOT	AL DEPTH O	r BURI	NG 19.	9 Ft.		Ļ	,								-
ELEV.	DEPTH	LEGEND	CL	ASSIFICATION	OF MATERIALS	R	% REC.	BOX OR SAMPLE	RQD OR UD		REMARKS	•	BLOWS/ 1 FT.	N-VALUE	
						\top				0.5					1
-6.9	0.0	├	SAND non	orly-graded mo	ostly fine-grained	+	\dashv			-6.9				+	 0
	F	[.∵:]	sand-sized	quartz, little s	and to gravel-sized	1:	520				Vibracore	:			F
	_	ŀ∵⋅∖∖			action with HCl,					-7.9					Ł
	_	·∷· \		ght brownish g 7.7 to -8.1 Ft	silty sand seam			1_							-
	_	···		,	only cana coan.										Ė
	_														H
	_	-::-													F
	_	∵:\	A+ F1 0 0	Et fourtine a	rainad aand aizad					-9.9					Ŀ
	_			rt., rew rine-gi reaction with	rained sand-sized HCl			2							F
	_		-At El10.3	3 Ft., little fine	to medium-grained										ţ
	_	·.∵ \	sand-sized	shell 7 Ft., 2.5Y 7/1	light gray										_
	-	[···]	AL LI 10.7	7 11., 2.51 7/1	light gray										F
	_	.::.													-5
	-														
	-	[.∵.[-12.9					F
	_	l∷:.ſ`			ne to medium-grained			3		12.0				†	t
	-	· ∵ \			sand to gravel-sized ong reaction with HCl										-
	<u> </u>	[::::]\	-At El13.3	3 Ft., little med											F
-14.4	7.5	:::	sand-sized												ţ
	Ł	·.:: `		orly-graded, mo ined sand-size											L
-15.4	- - 8.5	[:::: <u> </u>	fine-graine		uartz, 2.5Y 7/2 light										F
10.7	- 5.5	.∷. \	gray (SP)	orly aradad	oothy fino arcinod					15.0					ţ
	F	·.∵h`	sand-sized	ony-graded, mo quartz, some	ostly fine-grained fine to	\vdash	\dashv	4		-15.9				+	t
	F		medium-gr	ained sand-siz	red shell (SP)										F
	L		-At El15.9 shell, trace		nd to gravel-sized										<u>-</u> 1
	-				to medium-grained										F '
	F	l∵∵k	sand-sized	shell	ŭ										F
	<u> </u>	.: :. \`	-At El17.6 sand-sized		e to medium-grained										F
	-	ŀ∷⊹I\			t., silty very shelly										F
	Ļ	ŀ∴·L	sand seam]		L	ļ			-18.9				<u> </u>	Ļ
-19.5	_ - 12.6	[∷::]`		9 Ft., some fin∈ ∣ quartz, some	e to medium-grained medium to		-	5_							Ł
- 13.3	-	ŀ∷·∖∖	coarse-gra	ined sand-size	d shell										F
-20.1	13.2		-SAND, poo	orly-graded, mo	ostly sand to					00.4					
	F			d shell, some t quartz, 2.5Y 5			\dashv	6		-20.4				-	+
	<u> </u>	۱۰ ^۰ ۰۰۱۱	-SAND, poo	orly-graded, mo	ostly fine-grained		<u> </u>								L
	E	:::		quartz, little m											Ł
	[· . · . ·	coarse-gra	ined sand-size	d shell, weak reaction		- 1								F

DRI	LLING	LOC	G (Cont. Sheet)	INSTALLA				ng Designation VB-SAFS	SHEET 2	
ROJEC			,	Jackson				UM HORIZONTAL	OF 2 SI	HEETS
	hns County	v SPP		State P				1	NAVD88	
	ON COORDI			ELEVATIO						
X = 8	377,270	Y = 2,	025,679	-6.9 Ft.						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIAL	LS	REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/	N-VALUE
-22.1	15.2	-			+					T -
		ΕRΥ								
		JVE								
		RECOVERY								
		ON								
-26.8	19.9							-26.8 Abbreviations:		+
			NOTES:					Abbreviations.		
			 USACE Jacksonville is the custodia these original files. 	an for						
			Soils are field visually classified in							
			accordance with the Unified Soils Class System.	ssification						
			3. Laboratory Testing Results							
			SAMPLE LABORA ID DEPTH CLASSIFIC							
			1 1.0/1.3 SP*							
			2 3.0/3.3 SP ³ 3 6.0/6.3 SP ³	+						[
			4 9.0/9.3 SP* 5 12.0/12.3 SP*							
			6 13.5/13.8 SP*							
			*Lab visual classification based on gra curve	dation						
			Additional Laboratory Testing							
			Percent Visual Shell							[
			2 Percent Visual Shell3 Percent Visual Shell							
			4 Percent Visual Shell 5 Percent Carbonate							
			5 Percent Visual Shell 6 Percent Visual Shell							
			o Fercent visual Shell							
										[
<u> </u>	DRM 183	26 ^						l		

DD :	LLING	. ^^	DIVISION	N		INSTA	LLATI	ON	<u> </u>		SHEET 1		1
		LUG	South	n Atlantic		Jac	ksonv	ille Dis	strict		OF 2 SI	IEETS	_
1. PRO										Remarks			
S	t Johns Cou	unty SF	PP			10. C			SYSTEM/DATUM	HORIZONTAL	VERTICAL		
2. ROP	ING DESIGN	ΙΔΤΙΩΝ	:•	OCATION COOR	DINATES	11 M			e, FLW (U.S. Ft.) RER'S DESIGNATION	NAD83	NAVD8		-
	B-SAFS15-		-		Y = 2,025,584	11. W	vibra		RER 3 DESIGNATION] AUTO HAMMI] MANUAL HAN		
	LING AGEN		<u> </u>		TRACTOR FILE NO.					STURBED	UNDISTURBE		1
	orps of Eng		- CESAJ	6	738-15-5449	12. T	OTAL :	SAMPL	.ES	6	0		
	E OF DRILLI	ER				13. T	OTAL I	NUMB	ER CORE BOXES	0			
	alon Smith	OBING		DEC EDOM	BEARING	14. E	LEVAT	ION G	ROUND WATER				1
	VERTICAL	OKING		DEG. FROM VERTICAL	BEARING					STARTED	COMPLETI	ED	1
	INCLINED			1	-	15. D	ATE B	ORING	1	07-07-15	07-07-	15	
6. THIC	KNESS OF	OVERB	URDEN	N/A		16. E	LEVAT	ION T	OP OF BORING	-7.0 Ft.			
7. DEP	TH DRILLED	INTO R	OCK N	I/A		17. T	OTAL	RECO\	ERY FOR BORING	71 %			
° TOT	AL DEPTH O	E PORI	NG 10.0	9 Ft.		18. S	IGNAT	URE A	ND TITLE OF INSPE	CTOR			
o. 101/	AL DEPIR O		19.5	IJ Fl.			,						-
ELEV.	DEPTH	LEGEND	CLA	ASSIFICATION O	F MATERIALS	REC	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/	N-VALUE	
-7.0	0.0								-7.0				1
-1.0	- 0.0			orly-graded, most		+	+		-1.0				-0
	_	-::-		d shell, some fin	e-grained eaction with HCl,	141	0			Vibracore			E
-8.0	1.0	· · ·	2.5Y 6/2 lig	ght brownish gra	y (SP)		1	1	-8.0				╆
	-	l∷:¦\		orly-graded, most			<u> </u>	1					Ė
	<u>-</u>	·∷· \		zed shell, trace s	I quartz, some sand								L
	_	I: · : \\	At El8.4 I	Ft., 2.5Y 6/1 gra	y ` ´								ŀ
	_			Ft., 2.5Y 5/1 gra	y rained sand-sized				-10.0				F
		l∵∵./N	quartz, few	silt, strong reac			2	1	-10.0				t
	_		2.5Y 5/1 gr					1					F
	_	:::: \		Ft., some fine to shell. 2.5Y 6/2 I	ght brownish gray								Ē
	-	·∴∵\\	LAt El10.0	Ft., little mediui	n to coarse-grained								Ė
	_	[. · · :]\	sand-sized At FL -11.3		o coarse-grained								- 5
-12.4	- 5.4	l· . · . · l	sand-sized	shell	ū								F
	- -	$ \cdots $		orly-graded, most	ly sand to e to medium-grained	,			-13.0				Ė
	_			quartz, discontir		' ├─	3	1	-13.0				t
	-	-:::						1					ŀ
	_	 ∷∴ 											F
	-												Ė
	_	:::											Ŀ
	_	[:::]											F
	_	-:::							-16.0				F
	_	[:::[\	-At El15.9	Ft., trace silt			4		10.0				t
	_	$ \cdots $											E
-17.2	 10.2	· : ·											-10
		[∷:]\		orly-graded, most									Ė
	_	$ \cdot : \cdot $		quartz, trace sh 2.5Y 5/1 gray (Sl	ell, weak reaction ⊃)				-18.0				Ł
	_	· . :			,		5						F
	-	[.::]											F
	_	$ \cdot \cdot $											F
40.0	- 12.0	<u> </u> :-::											ŀ
-19.9	- 12.9 	 	SAND, poo	orly-graded with s	silt, mostly	+	6	-	-20.0				F
	<u>-</u>		fine-grained	d sand-sized qua	artz, few silt, trace		F°	1					Ļ
-21.1	- 14.1			g reaction with F t silt seams, 2.5									Ŀ
	-		(SP-SM)			Λ							F
	<u> </u>	(ECO)											F

SAJ FORM 1836 JUN 02

DR	ILLING	LO	G (Cont. Sheet)	INSTALLA: Jackson		Distric	~ †				SHEET 2 OF 2 S	
PROJEC	 Эт			COORDINA				JM	HORIZONTAL	VEI	RTICAL	
St Jo	hns County	/ SPP		State P					NAD83	ı	NAVD88	
OCATI	ON COORDI	NATE	<u></u>	ELEVATIO		OF B	ORIN					
X = 8	377,388		025,584	-7.0 Ft.								
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIA	ALS	REC.	BOX OR SAMPLE	RQD OR UD		REMAI	RKS	BLOWS/	N-VALUE
-26.9	19.9	NO RECOVERY LEG	NOTES: 1. USACE Jacksonville is the custod these original files. 2. Soils are field visually classified in accordance with the Unified Soils Clasystem. 3. Laboratory Testing Results SAMPLE SAMPLE LABORALD DEPTH CLASSIFITH CLASS	assification ATORY ICATION IC	RÉC.	BOX SAM	SE CONTRACTOR DE	-26.9 Abbrevia			BLO BLO	AV-N

	LLING		DIVISION	N		INS	TALL	ATIC	N				SHEET 1		7
		LUG	South	n Atlantic		J	lacks	onvi	le Dis	strict			OF 2 S	HEETS	<u>.</u>
1. PRO											Remarks				1
S	t Johns Co	unty SF	PP			10.				SYSTEM/DATUM	HORIZONT	AL !	VERTICAL		
2 POP	ING DESIGN	IATION	3.0	OCATION COOR	DINATES	44				e, FLW (U.S. Ft.) RER'S DESIGNATION	NAD83		NAVD		-
	B-SAFS15				Y = 2,025,092	11.		ibra		ER 5 DESIGNATION	OF DRILL	=	TO HAMM NUAL HA		
	LING AGEN		1		NTRACTOR FILE NO.						STURBED		ISTURBE		-
C	Corps of Eng	gineers	- CESAJ		6738-15-5449	12.	тот	AL S	AMPL	.ES	6	0		` ,	
4. NAM	E OF DRILL	ER		·		13.	тот	AL N	IUMB	ER CORE BOXES	0				1
	alon Smith					14.	ELE	VATI	ON G	ROUND WATER					1
	ECTION OF E VERTICAL	BORING	ì	DEG. FROM VERTICAL	BEARING						STARTED	! (COMPLET	ED	┨
	INCLINED				į	15.	DAT	E BC	RING	i	07-08-1	i	07-08-		
6. THIC	CKNESS OF	OVERB	URDEN	N/A		16.	ELE	VAT	ON T	OP OF BORING	-6.9 Ft.				
7 DED	TH DRILLED	INTO	BOCK V	I/A		17.	тот	AL R	ECO	ERY FOR BORING	65 %				1
7. DEF	IN DRILLED		• '			18.	SIGI	NATI	JRE A	ND TITLE OF INSPE	CTOR				1
8. TOT	AL DEPTH O	F BORI	NG 19.	9 Ft.			,								
ELEV.	DEPTH	LEGEND	CL	ASSIFICATION O	F MATERIALS	R	‰ EC.	BOX OR SAMPLE	RQD OR UD		REMARKS	5	BLOWS/ 1 FT.	N-VALUE	
														Т	1
-6.9	0.0	 	SAND non	orly-graded mos	stly fine-grained	+	+			-6.9				+-	+0
	-	I. ∵.\	sand-sized	quartz, few me	dium-grained	13	300				Vibracore	9			F
	_	. ∵ . <u> </u>		shell, trace silt, 6/2 light brownis	strong reaction with					-7.9					Ł
	_	· · · \		Ft., 2.5Y 6/1 gra			L	1_							ŀ
	-	[::::]\			um to coarse-grained										F
	_	.∵ \	sand-sized		medium-grained										E
	-	·∷· \	sand-sized		nedidin-grained										F
	_	[∷:],			medium-grained		_	_		-9.9					Ļ
	_	.∵.¦\	sand-sized At Fl -9 9		to medium-grained		ŀ	2							Ł
	-	· · \	sand-sized	quartz, little me	edium to										F
	-	[.∵.]\		ined sand-sized 3 Ft., 2.5Y 7/2 li											F
	_	.∵ \			grit gray o coarse-grained										Ł
	_	ŀ	sand-sized												-5
	-	[:::]	Guartz. son	ne sand to grave	e-grained sand-sized el-sized shell					-12.4					Į.
-12.8	- 5.9 	ŀ∵⊦	•	orly-graded, mos			-	3							Ł
	_			d shell, some fir											F
	- -		sand-sized	quartz, N 4/ da	rk gray (SP)										F
-14.3	_ - 7.4	ŀ∵·ſ	From El1	13.8 to -14.3 Ft.	, sand seam										L
17.0		<u> </u> : ∙:∱			stly fine-grained										ŀ
	_	$ \cdots $		quartz, few me shell (SP)	dium-grained										F
	- -	ŀ∷∖		` ,		L	_			-15.4				₩	‡
	<u>L</u>	[::::[`	∽At El15.4 sand-sized	Ft., little mediu shell	ım-grained		-	4							Ŀ
	<u> </u>	[.∵.]\	At El15.8	Ft., trace shell	, weak reaction with										F
	<u> </u>	:::	HCI, 2.5Y	6/1 gray						-16.9					ţ
	_	∷::	∽At El16.9	Ft., few mediu	m-grained sand-size	d H	+	5		-10.9				+	1
	_	.∵.	shell												ŀ
	<u>L</u>	:::													Ĺ
	_	::::													Ė
	_	.∵. `	∽At El18.5	5 Ft., 2.5Y 5/1 g	ray					-18.9					ŀ
	_	ŀ∷ŀ			rained sand-sized	F	Ţ	6						\top	Ŧ
	- 40 0	∷::	-	5" piece of woo											ţ
-19.9	13.0	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		Ft., few fine to shell, strong re	medium-grained	A									F
	- -		Carra-Sizeu	onon, onong re	acaon wan Ho	۱۲									F
	_	COV													Ŀ
	_	J R (ŀ
	- -	_													Į.

DRI	LLING	LOC	G (Cont. Sheet)	INSTALLA					SHEET 2		
				Jackso					OF 2 SH	EETS	4
PROJEC				COORDINA				1	VERTICAL		
	hns County			State P					NAVD88		-
	ON COORDI			ELEVATIO		OF B	ORIN	G			
X = 8	76,466 `		025,092	-6.9 Ft.	T .			I			-
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIA	ALS	REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/	N-VALUE	15
-26.8	19.9	NO RECOVERY	NOTES: 1. USACE Jacksonville is the custod these original files. 2. Soils are field visually classified in accordance with the Unified Soils Clasystem. 3. Laboratory Testing Results SAMPLE SAMPLE LABORA ID DEPTH CLASSIFIED DEPTH CLASSIFIED SAMPLE LABORA ID DEPTH CLASSIFIED	ATORY CATION 				-26.8 Abbreviations:			
											\mathcal{L}_{35}

DBI	LLING	106	DIVISIO	N		INS	TALL	ATIC	N				SHEET 1		1
		LUG	South	n Atlantic		J	Jacks	sonvi	lle Dis	strict			OF 2 S	HEETS	
1. PRO															
S	St Johns Co	unty SP	Р			10.					-	\L \			
2 808	ING DESIGN	IATION	3.0	OCATION COO	PRIMATES	44				,		 _			-
						' ''				ER 3 DESIGNATION	OF DRILL				
						-					ISTURBED				1
			- CESAJ	<u> </u>	6738-15-5449	12.	тот	TAL S	AMPL	.ES	7	0)		
		ER				13.	тот	TAL N	IUMB	ER CORE BOXES	0				
		POPING		DEG EPOM	BEADING	14.	ELE	VAT	ON G	ROUND WATER					
	VERTICAL	OKING		VERTICAL	BEARING	45	D47		DING		STARTED	- 10	COMPLET	ED	1
	INCLINED					15.	DAI	EB	KING		07-07-15	5	07-07-	·15	_
6. THI	CKNESS OF	OVERBU	IRDEN	N/A		16.	ELE	VAT	ION T	OP OF BORING	-7.3 Ft.				
7. DEP	TH DRILLED	INTO R	OCK N	I/A		17.	тот	ΓAL F	RECOV	ERY FOR BORING	77 %				
	AL DERTH O	E BODII	10	O Ft		18.	SIG	NAT	URE A	ND TITLE OF INSPE	CTOR				
8. 101	AL DEPTH O	F BURIT	19.	9 Ft.		Щ	<u>,</u>								4
ELEV.	DEPTH	LEGEND	CL	ASSIFICATION (OF MATERIALS	R	% EC.	BOX OR SAMPLE	RQD OR UD		REMARKS	•	BLOWS/ 1 FT.	N-VALUE	
7.0	Johns County SPP Coordination C		1												
-7.3	0.0			 0											
	F	l.:::l	sand-sized	quartz, some s	and to gravel-sized	1:	530				Vibracore	•			F
	<u>-</u>									-8.3				┿	ļ
	_	···	2.01 0/2 115	grit brownion gr	ay (c.)		ŀ	_1_							Ŀ
															F
	-														F
	_	: ::\	From El9	9.8 to -10.0 Ft.,	shell seam					40.0					Ŀ
	_					H		2		-10.3				+-	╁
	-	∷: \	At El10.3	B Ft., mostly fin	e-grained sand-sized		ŀ								Ē
	L				arse-graineu										Ŀ
	-														-
	-	·:::													F
	_				to coarse-grained										-5 -
	_	-::-	sand-sized	shell											Ł
	_	∵:\ <u>\</u>	At El13.2	2 Ft., 2.5Y 7/2 I	ight gray										F
	_	l:::k	.∧+ ⊏I 12 G	P Et some con	d to group sized shall			2		-13.8				+	ļ
	<u> </u>	· : : `	AL LI 13.0	or i., some sall	u to graver-sizeu si lei	'	}	<u>ა</u>							L
	E	[.∵.]													E
	-	∷:-													F
	F														F
	ļ.	:::	sand-sized	shell, 2.5Y 6/1	gray					16.2					ţ
	<u> </u>					\vdash	\dashv	4		-10.3				+	+
	-						1								F
	F	::: <u> </u>	_												-10
	ţ				., silt seam,	L				-17.8				\bot	‡
	L	.∵ ∖	At El17.8	3 Ét., trace shel	l, 2.5Y 6/1 gray		}	5_							ŀ
	F	l.∷.l \	At El17.9	Ft., little fine t	o medium-grained										F
	-				I, no reaction with HC	;				10.2					ţ
	F	[.·:·]	10.0	,	,	-	\dashv	6		-19.3				+-	t
	F	-::-													F
	L	[:::]													L
	E	$ \cdots $													Ł
	_	·	At El21 () Ft., little medi	um to coarse-grained					-21.3					F
	<u> </u>	[∷:]	sand-sized	shell, weak rea	action with HCI		士	7						1	Ŧ
	<u> </u>	ŀ∷·ŀ	At El21.8	3 Ft., trace shel	I, no reaction with HC	:									ţ

	LING	LOG	G (Cont. Sheet)	Jackson		Distric	ct		SHEET 2 OF 2 S	
PROJECT				COORDINA				JM HORIZONTAL	VERTICAL	
St John:	s County	SPP		State P	lane,	FLW	(U.S.	Ft.) NAD83	NAVD88	
LOCATION	COORDII	NATES	•	ELEVATIO		OF B	ORIN	3		
X = 876	5,019 \)24,781	-7.3 Ft.						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIA	LS	REC.	BOX OR SAMPLE	RQD OR UD	REMARK	BLOWS/	N-VALUE
-22.6 1	15.3	. , .								
		NO RECOVERY								
07.0	40.0	Z						07.0		
-27.2 1	19.9		NOTES					-27.2 Abbreviations:		
			NOTES: 1. USACE Jacksonville is the custodi these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classystem. 3. Laboratory Testing Results SAMPLE SAMPLE LABORA ID DEPTH CLASSIFIC CLASSIFI	TORY CATION **				Addreviations:		

			DIVISIO	N		INS	STAL	LATIC	N	<u> </u>		SHEET 1		1
DRI	LLING	LOG				1				strict		OF 2 SI	IEETS	
1. PRO	JECT		-			9.	SIZE	AND	TYPE	OF BIT Se	e Remarks	•		1
S	t Johns Co	unty SF	PP			10.	СО	ORDI	NATE	SYSTEM/DATUM	HORIZONTAL	VERTICAL		1
												NAVD8	88	
			į			11.				RER'S DESIGNATION	ON OF DRILL	АИТО НАММІ		
				X = 878,0		╄		vibra	core			MANUAL HAN		4
_			- CESA I				то	TAL S	SAMPL) (UD)	
			- CLOAU	<u>_</u>	0730-13-34-9	12	TO:	TAL 1		ED CODE DOVES	-	0		1
						\vdash					U			-
5. DIRE	CTION OF		ì	DEG. FROM	M BEARING	14.	ELI	EVAT	ION G	ROUND WATER				
_				VERTICAL		15.	DA'	TE BO	RING)	i	COMPLETI		
					<u> </u>	+-						07-07-	15	1
6. THIC	KNESS OF	OVERB	URDEN	N/A		┵								-
7. DEP	RILLING LOG South Atlantic Jacksonville District St Johns County SPP St Johns County SPP LOCATION COORDINATES VB-SAFS15-15 X = 878,076 Y = 2,025,103 RILLING AGENCY Corps of Engineers - CESAJ AMME OF DRILLER Talon Smith DIRECTION OF BORING VERTICAL INCLINED DEG. FROM VERTICAL INCLINED DEG. FROM VERTICAL INCLINED DEG. FROM VERTICAL INCLINED DEG. FROM VERTICAL INCLINED DEG. FROM VERTICAL INCLINED TOTAL DEPTH OF BORING DEG. FROM VERTICAL INCLINED TOTAL DEPTH OF BORING DEG. FROM VERTICAL INCLINED CLASSIFICATION OF MATERIALS DETAIL TOTAL RECOVERY FOR BORING 18. SIGNATURE AND TITLE OF INSPECTOR ROD REMARKS ROD REMARKS ROD REMARKS PROP REMARKS				4									
8. ТОТ	AL DEPTH (OF BORI	NG 19.	.9 Ft.		7 18.	. 510	IAN	UKE A	IND TITLE OF INS	PECTOR			
		т т				╅		,					ш	1
ELEV.	DEPTH	LEGENI	CL	ASSIFICATIO	ON OF MATERIALS	ı	«REC.	BOX OF	RQD OR UD		REMARKS	BLOWS/	N-VALUE	
														1
-6.7	0.0	┼	SAND nor	orly-graded	mostly fine-grained					-6.7				+c
	-	[···]	sand-sized	d quartz, few	medium-grained	ŀ	1680				Vibracore			F
	-	-::-				L				-7.7				Ł
	-	···:	1101, 2.51	on gray (o	,			_1_						ŀ
	- -	[. : :]	∽At El8.2	Ft., trace sh	ell									F
	-	-::-												
	-	···:												-
	_					ŀ		2		-9.7				F
	-	-::-												ţ
	-	···:												-
	-													F
	- -	·:::												ţ
	_	∷::												-5
	-	.∵. `		9 Ft., few m	edium-grained sand-size	ed								F
	- -	:::	oricii			-		_		-12.7				Ļ.
	-	::::\ [*]	∽At El12.9	9 Ft., strong	reaction with HCl			3						Ė
	-	-::-												ŀ
	-		At El13.7	7 Ft., some	fine to medium-grained									F
	-	::::	sand-sized	ı snell, 2.5Y	112 light gray									ļ
	_ -	:::												F
	-													ŀ
	-	∷:\	-Δ+ El 1E -	7 Et four	adium_arainad aand ai-	,		4		-15.7				ļ.
	- -	1 [/	shell		_	-u		_4_						ţ
	<u> </u>	[::::]`	^L At El16.0	0 Ft., little m	edium-grained									Ł,
	-	:::	sand-sized	snell, 2.5Y	b/i gray									F ¹
	- -	:::												ţ
	_	$[\cdots]$												F
	-	:::												F
	- -	:::				ļ				-18.7				上
	_	<u>[</u> ∷:]						_5_						ŀ
	-	 ∷⊹	-At Fl -19 ₄	4 Ft. few fin	e-grained sand-sized									F
	- -	:::	shell, weak	k reaction wi	th HCl									F
	_	$[\cdots]$												Ł
	_	:::												F
	- -	:::												ţ
	L	11							1				1	L

DRI	LLING	LOC	G (Cont. Sheet)	Jackson						1 010-	SHEET 2	
PROJECT	г			COORDINA				JM	HORIZONTAL	↓VE	RTICAL	
	nns County	/ SPP		State P					NAD83	1	NAVD88	
OCATIO	N COORDI	NATES	•	ELEVATIO	N ТОР	OF B	ORIN	3	•			
X = 8	78,076		025,103	-6.7 Ft.								
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIA	LS	REC.	BOX OR SAMPLE	RQD OR UD		REMA	RKS	BLOWS/ 1 FT.	N-VALUE
-23.5	16.8		~At El21.7 Ft., 2.5Y 7/2 light gray		-	6						
-26.6	19.9	NO RECOVERY						-26.6				
-26.6	19.9		NOTES: 1. USACE Jacksonville is the custodithese original files. 2. Soils are field visually classified in accordance with the Unified Soils Clasystem. 3. Laboratory Testing Results SAMPLE SAMPLE LABORA ID DEPTH CLASSIFIED DEPTH DEPT	STORY CATION * * * * * * * *				-26.6 Abbrevia	ations:			

	LLING		DIVISIO	N		INS	TALL	ATIC	N			SHEET 1		1
		LUG	South	n Atlantic		J	lacks	onvi	lle Dis	strict		OF 2 SI	IEETS	
1. PRO														
5	St Johns Cou	unty SPF	o			10.					1	ł		
2 POP	ING DESIGN	IATION		OCATION CO	OPRINATES	44						-		4
_			•			11.				ER 5 DESIGNATION	TOP DRILL	=		
			<u> </u>			_					STURBED			1
(Corps of Eng	gineers -	CESAJ		6738-15-5449	12.	тот	AL S	AMPL	.ES	5	0	` ,	
4. NAN	E OF DRILL	ER				13.	тот	AL N	IUMB	ER CORE BOXES	0			
	alon Smith					14.	ELE	VAT	ION G	ROUND WATER				1
		BORING		DEG. FROM VERTICAL	BEARING	<u> </u>					STARTED	COMPLETI	ED.	-
	INCLINED					15.	DAT	EBC	RING	i	i			
6. THI	CKNESS OF	OVERBU	RDEN	N/A	•	16.	ELE	VAT	ION T	OP OF BORING	-7.0 Ft.	l		1
7 050		INTO D	201/			17.	тот	AL F	RECOV	ERY FOR BORING				1
7. DEP	TH DRILLED	INTO RO	DCK N	I/A										1
8. TOT	AL DEPTH O	F BORIN	i G 19.	9 Ft.			,							
ELEV.	DEPTH	LEGEND	CL	ASSIFICATION	OF MATERIALS	R	% EC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/	N-VALUE	
						\top	\neg			7.0				1
-7.0	0.0		SAND nor	orly-graded m	nostly fine-grained	+	\dashv			-7.0				 0
		l.∵.l s	sand-sized	quartz, few n	nedium-grained									Ė
	_					,	750				Vibracoro			Ł
	-	·	At El8.0	Ft., trace she	(3F)	- '	30				Vibracore			ŀ
	-			.,						0.0				F
	_	.···				H		1		-9.0				t
	-	· ·												F
		[:::]												L
	_	.∵[[~] ,	At El10.1	1 Ft., 2.5Y 6/1	l gray									Ł
	-	l∷∖⊾	Erom El 1	10 8 to 10 0 I	Et silty sand soam					-11.0				F
	_	[.∵:]\;	At El10.9	Ft., few med	dium-grained sand-size	d		2						F
	_	· · · s	shell, weak	reaction with	n HCI									ţ
	-	l: :::\-,	At El12.0) Ft little fine	to medium-grained									-5
	_ -				reaction with HCI,									F
	-	ŀ∷⊹∖ _{'n}	At El13.1	1 Ft., mostly f	ine to medium-grained									-
	_	`.'.' <u> </u>	sand-sized	quartz, some	sand to gravel-sized									Ŀ
	F	[:::] ⁵	snell, 2.5Y	6/2 light brov	vnisn gray	H		3		-14.0				╁
	-	-::-												F
	_	[:::]												L
	E	$ \cdots $												Ł
	-	· . : ·												F
	-	[:::k	Δ+ EI 16 1) Et mootly f	ine grained sand sized					16.5				F
	E					\vdash	\dashv	4		-10.3				t
	_													-1
	ļ	$ \cdot\cdot\cdot $												F
	L	$ \cdots $	At El17 8	3 Ft., little fine	to medium-grained									Ł
	}													F
	ļ	$ \cdot\cdot\cdot $												F
	<u> </u>	· : :	A + E + + + + + = +	\F						40.5				F
	### South Atlantic Jacksonville District OF 2 SMEETS ### SIZE AND TYPE OF BIT See Remarks		Ŧ											
	Ļ	.∵∴ \ १	shell	•	•									L
	<u> </u>				to medium-grained									Ł
	-				ell, no reaction with HC	;ı								F
	-	[∷:] [′]		, 511	. ,									F
	<u> </u>	$ \cdots $												Ŀ

DR	LLING	LO	G (Cont. Sheet)	INSTALLA Jackso		Dietri	- -			SHEET 2 OF 2 S	
ROJEC			•	COORDINA				UM HORIZONTA	L ¦vi	RTICAL	HEEIS
	hns County	SPP		State P				1		NAVD88	
	ON COORDI			ELEVATIO					•		
X = 8	378,748	Y = 2,	025,465	-7.0 Ft							
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATER	IALS	REC.	BOX OR SAMPLE	RQD OR UD	F	REMARKS	BLOWS/	N-VALUE
		NO RECOVERY	At El23.7 Ft., some fine to mediur sand-sized shell At El24.7 Ft., some fine to mediur sand-sized shell	_							
-26.9	19.9							-26.9			
			ID DEPTH CLASSII 1 2.0/2.3 S 2 4.0/4.3 S 3 7.0/7.3 S 4 9.5/9.8 S	RATORY FICATION 				Abbreviations:			

			DIVISION			INST	ALLATI	ON	<u> </u>		SHEET 1		7
DRI	LLING	LOG	South Atl	lantic		ı	cksonv		strict		OF 2 SH	IEETS	;
1. PRO	JECT					9. SI	ZE ANI	TYPI	E OF BIT Se	e Remarks			1
S	t Johns Co	unty SP	Р			10. (COORD	NATE	SYSTEM/DATUM	HORIZONTAL	VERTICAL		1
			1			ļ.,			e, FLW (U.S. Ft.)		NAVD8	_	1
	ING DESIGN B-SAFS15		i	ATION COOF	RDINATES Y = 2,025,763	11.		ACTU I ICORE	RER'S DESIGNATION		AUTO HAMME		
	LING AGEN		<u> </u>		NTRACTOR FILE NO.	-	VIDIC	core	-		JNDISTURBED		1
C	Corps of Eng	gineers -	- CESAJ		6738-15-5449	12. 1	TOTAL	SAMP	LES	5	0	(- ,	
4. NAM	E OF DRILL	ER		·		13. 1	TOTAL	NUMB	ER CORE BOXES	0			1
	alon Smith					14. 1	ELEVAT	ION G	ROUND WATER				
	ECTION OF I	BORING	DE	G. FROM RTICAL	BEARING					STARTED	COMPLETE	ED.	1
	INCLINED				<u> </u>	15. [DATE B	ORING	·	07-07-15	07-07-1	15	
6. THI	CKNESS OF	OVERBU	JRDEN N/A	A		16. I	ELEVAT	ION T	OP OF BORING	-6.3 Ft.			
7. DEP	TH DRILLED	INTO R	OCK N/A			17. 1	TOTAL	RECO	VERY FOR BORING	75 %			
						18. \$	SIGNAT	URE A	AND TITLE OF INS	PECTOR			1
в. тот	AL DEPTH C	т т	NG 19.9 Ft	ί.		Ц_	,		Г				4
ELEV.	DEPTH	LEGEND	CLASSI	IFICATION (OF MATERIALS	RE	BOX OR	RQD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE	
	0.0								0.0				1
-6.3	0.0					+	+		-6.3				\pm
	-												F
	F					75	0			Vibracore			F
0.4	- 10												ŧ
-8.1	_ 1.8 _				stly fine-grained	\dashv	4.	1	-8.3				上
	E	.·.·.	sand-sized qua	artz, trace sl	nell, trace silt, weak		1_	1					E
	_		reaction with H (SP)	101, 2.5 ¥ 6/2	2 light brownish gray								F
	-		,										F
-10.1	3.8								40.0				ţ
	_		SAND, poorly-		silt, mostly lartz, few silt, trace		2	1	-10.3				t
	-	-	shell, weak rea	action with F	ICI, occasional			1					ŀ
	-		intermittent silt (SP-SM)	ty fine sand	seams, 2.5Y 5/1 gra	У							F
	- -	:- \\	At El11.1 Ft.	., 2.5Y 6/2 li	ght brownish gray								F
-12.3	6.0	<u> :: </u>	CAND	aradad	the fine and in a d	\perp	1_	1	-12.3				上
	<u>-</u>				stly fine-grained hell, trace silt, weak		3	1					E
	<u> </u>	$[\cdots]$	reaction with H		2 light brownish gray								E
	_		(SP)										F
-14.3	- - 8.0	 . : : 							-14.3				F
-14.8			SAND, poorly-			\top	4]					ŧ
17.0	- 0.0				ıartz, few silt, no 2 light brownish gray	/			-15.3				ţ
-15.5	- 9.2	$\coprod\coprod$	(SP-SM)	·		/ إ⊢	5	1	-15.3				t
	_				rained sand-sized I, intermittent sand	/		1					F
	_		seams, N 4/ da	ark gray (SI	M)]							F
	-		SILT, inorganio	c-H, some fi	ne-grained eaction with HCl,								ţ
	-		occasional san	nd seams, N	4/ dark gray (MH)								L
	<u>-</u>		At El15.7 Ft.	., N 3/ very o	dark gray								E
	<u> </u>												ŀ
	- -												F
-19.0	- 12.7 -		CAND silty ~	oothy fino a	rained sand-sized	\dashv							ţ
	 - -		quartz, some s	silt, weak rea	action with HCl,								F
	_	\mathbb{H}	N 3/ very dark At El19.7 Ft.	gray (SM)	ım grained								ŀ
00-	F.,,	$\Pi \Pi \Pi \Pi$	sand-sized she	ell, strong re	am-grained action with HCl,								F
-20.7	- 14.4 -	\square	2.5Y 4/1 dark (gray		$ \bot $							ţ
24.2	L 450	11.111	SAND, poorly-	graded with	silt, mostly		1	1	I			1	L

DR	ILLING	LO	G (Cont. Sheet)	INSTALLA Jackso		Dietri	~t		SHEET :	
PROJEC			-	COORDINA				UM HORIZONTAL	VERTICAL	-11EE13
	ohns County	y SPP		State F				I	NAVD88	
	ON COORDI			ELEVATIO						
X = 8	379,622	Y = 2,	025,763	-6.3 Ft						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIA	ALS	ĸEC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/	N-VALUE
	DEPTH			e sand to cition with //) dian for assification ATORY ICATION		BOX OR SAMPLE	RORD CONTROL C	-26.2 Abbreviations:	BLOWS/	N-VALUE

DRI	LLING	ı oc	DIVIS				1		LATIC		<u> </u>		SHEET		1
1. PRO			So	uth Atlantic			-			lle Dis		<u> </u>	OF 2	SHEETS	S
		unti (C	DD				_				SYSTEM/DATUM	e Remarks	L VERTIC	ΛI	4
3	St Johns Co	urity S	PP				'''				e, FLW (U.S. Ft.)	:	NAV		
2. BOR	ING DESIGN	IATIO	1	LOCATION	OORDIN	ATES	11.	. MA			RER'S DESIGNATION		AUTO HAM		┨
V	/B-SAFS15-	-18		X = 879,	391 Y	= 2,024,576			vibra	core		Ĭ	MANUAL H		
3. DRII	LING AGEN	CY			1	ACTOR FILE NO.		. то	TAI S	SAMPI		DISTURBED	UNDISTURE	BED (UD)	П
	Corps of Eng		s - CESAJ		¦ 673	8-15-5449	ļ. <u> </u>					0	0		4
	IE OF DRILL	ER					13	. то	TAL I	NUMB	ER CORE BOXES	0			
	alon Smith	BORIN	G	DEG. FRO	м	BEARING	14.	. EL	EVAT	ION G	ROUND WATER				
	VERTICAL INCLINED			VERTICAL	.		15.	. DA	TE BO	ORING	;	STARTED 07-07-15	COMPLE 07-0		
6. THI	CKNESS OF	OVERI	BURDEN	N/A			16	. EL	EVAT	ION T	OP OF BORING	-4.9 Ft.	•		
7. DEP	TH DRILLED	INTO	ROCK	N/A			_				ERY FOR BORING				
8. тот	AL DEPTH O	F BOR	ing 1	19.9 Ft.			18	. SI	GNAT	URE A	AND TITLE OF INS	PECTOR			
ELEV.	DEPTH	LEGEND	(CLASSIFICATION	ON OF M	ATERIALS	•	ĸ. REC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/	N-VALUE	
4.0	00	П									4.0			\top	1
-4.9	_	. 111	SAND, p	oorly-graded	with silt,	mostly	\dashv				-4.9			+	+
-5.5	- 0.6					, few silt, weak	ہ								ŀ
				with HCl, 2.5		ay (SP-SM) 5/1 greenish gra	, /								L
	-	-	SILT, inc	organic-H, sor	ne fine-	grained	<u>y</u>								ŀ
	F		sand-siz	ed quartz, trad	ce shell,	weak reaction									F
	F		with HCI	, 10Y 5/1 gree	enish gra	ay (MH)									H
	[-													F
	-														ŀ
	_	* * *	\^+ E 0	1 Et little fin	o graino	d aand aizad									F
	F		quartz	.1 Ft., little fin	e-graine	u sanu-sizeu									F
			quartz												L
	F	* * *													ŀ
-9.8	4.9														F
		1111		ilty, mostly fir											E
-10.4	5.5			some silt, wea		n with HCl,	A								F
	L		SILT in	greenish gray	e fine-ar	ained sand-size	۱/ټ								L
	F	-	guartz. t	race shell, we	ak react	ion with HCl.	٦								-
	<u> </u>		10Y 5/1	greenish gray	(MH)	,									Ŀ
	<u> </u>														F
	-	-						00				\ <i>(</i> :			ŀ
	F							82				Vibracore			F
	_	* * *													E
	F														F
	L														Ł
	-														F
	ţ														t
	H														F
	<u> </u>														ţ
	}			5.5 Ft., some	fine-grai	ined sand-sized									ŀ
	F		quartz												F
-16.6	- 11.7														ŀ
	L	HIHI				ed sand-sized	٦								Ļ
-17.3	- 12.4			ittle silt, weak 2.5Y 5/1 gray		with HCl, sand	ٳ								ŀ
	[:.		oorly-graded		mostly	-/								ţ
	H	:.	fine-grai	ned sand-size	ed quartz	, few silt, weak									F
	ļ.	[:-[]]		with HCI, N 7											ţ
	 	::													ŀ
	F	$\left\ \cdot \right\ \left\ \cdot \right\ $													F
	t	·.													Ł
	Γ	1. IIII					- 1		I	1	Ī			1	

DRILLING L	LOG	(Cont. Sheet)	Jackson		Distric	at			710-	SHEET 2	
ROJECT			COORDINA				Ј М	HORIZONTAL	VE	RTICAL	
St Johns County S	SPP		State P					NAD83		NAVD88	
OCATION COORDINA			ELEVATIO								
X = 879,391 Y	= 2,0	024,576	-4.9 Ft.								
ELEV. DEPTH	LEGEND	CLASSIFICATION OF MATERIA	LS	% REC.	BOX OR SAMPLE	RQD OR UD		REMARKS	;	BLOWS/ 1 FT.	N-VALUE
-21.2 16.3 ·											
	RECOVERY			82				Vibracore	:		
-24.8 19.9	ON						-24.8				
		NOTES: 1. USACE Jacksonville is the custodi these original files. 2. Soils are field visually classified in accordance with the Unified Soils Cla System.									

DDI			_	DIVISION			IN	STAL	LATIC	N	<u> </u>		SHEET 1	
	LLING	LU	<u> </u>	South Atla	antic		\perp	Jack	sonvi	lle Dis			OF 2 SH	IEETS
1. PRO												Remarks	·	
S	St Johns Co	unty	SPP				10				SYSTEM/DATUM	HORIZONTAL	1	_
2. ROP	ING DESIGN	IATIC	N.	1.004	TION COOR	DINATES	111				e, FLW (U.S. Ft.) RER'S DESIGNATION	NAD83	NAVD8	
	/B-SAFS15		/N	1		Y = 2,024,874	1	. 1412	vibra		RER S DESIGNATION	OF DRILL	AUTO HAMME MANUAL HAN	
	LING AGEN			1		ITRACTOR FILE NO.						ISTURBED	UNDISTURBED	
	Corps of Eng	_	rs - (CESAJ	6	738-15-5449	12	. 10	TAL	SAMPL	.ES	0	0	
	E OF DRILL	ER					13	. то	TAL N	NUMB	ER CORE BOXES	0		
	alon Smith	RORII	NG.	DEC	G. FROM	BEARING	14	. EL	EVAT	ION G	ROUND WATER			
\boxtimes	VERTICAL INCLINED			VEF	G. FROM RTICAL		15	. DA	TE BO	ORING	1	STARTED 07-07-15	07-07-1	
6. THIC	CKNESS OF	OVEF	RBUR	DEN N/A			16	. EL	EVAT	ION T	OP OF BORING	-8.4 Ft.		
7. DEP	TH DRILLED	INTO	D RO	CK N/A			17	. то	TAL F	RECOV	ERY FOR BORING	82 %		
							18	. SI	SNAT	URE A	ND TITLE OF INSPE	ECTOR		
8. ТОТ	AL DEPTH C	F BO	RING	19.9 Ft.			Щ		,					
ELEV.	DEPTH	LEGEND		CLASSIF	FICATION O	F MATERIALS		ĸ. REC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/	N-VALUE
-8.4	0.0										-8.4			
-0.4	_ 0.0	\prod	s	ILT, inorganic-	-H, little fine	e-grained sand-sized	d				-0.4			
-9.0	- 0.6	 		uartz, weak rea ∕/H)	action with	HCl, N 4/ dark gray	لر							
	<u> </u>	- -	S	AND, silty, mo		ained sand-sized	-/							
-10.1	- - 1.7	 				ction with HCl,								
			T\\S	4/ dark gray	(SIVI) -H few fine	-grained sand-sized	, 1							
	-	-	qı	uartz, weak rea	action with	HCl, N 4/ dark gray								
	-		(N	⁄IH)										
	_													
	-													
	_													
	_		l											
	F													
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	-													
	_													
	-							82				Vibracore		
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	<u> </u>													
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	F													
	<u> </u>													
	L													
	-													
	<u> </u>													
	F													
	ļ.													
	L				some fine-	grained sand-sized								
-21.9	13.5		qı	uartz										
۳4 ۱.۳	10.0	 	s.	AND, poorly-g	raded with	silt, mostly	\dashv							
	F	$\ \cdot\ $	\ fir	ne-grained sar	nd-sized qua	artz, few silt, weak								
	ļ	·:	\re	eaction with H0 SP-SM)	∪i, 2.5Y 5/2	grayish brown								
	-		扑片	rom El22.0 t	to -23.3 Ft	intermittent silt								

DRILLING LOG (Cont. Sheet)			INSTALLATION SHEET Jacksonville District OF 2								HEETS	
PROJECT			COORDINA				HORIZONTAL	ONTAL VERTICAL				
St Johns County SPP				State Plane, FLW (U.S. Ft.) NAD83 N								
	N COORDII			ELEVATIO					<u> </u>			
X = 88	30,019	/ = 2,	024,874	-8.4 Ft.								_
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIA	LS	" REC.	BOX OR SAMPLE	RQD OR UD		REMARKS	i	BLOWS/ 1 FT.	N-VALUE
-24.7	16.3		Seams At El24.1 Ft., few medium-grained shell, 2.5Y 6/1 gray	sand-sized								_
		NO RECOVERY			82				Vibracore			
-28.3	19.9							-28.3				
			NOTES: 1. USACE Jacksonville is the custod these original files. 2. Soils are field visually classified in accordance with the Unified Soils Clasystem.									

ŊΡ	ILLING	ı ne	DIVISIO	DN		INSTA	LLATI	ON	<u> </u>		SHEET	1	7
1. PR			Sou	th Atlantic			cksonv				OF 2	SHEETS	s
		untu CI	חח						E OF BIT See Remarks SYSTEM/DATUM HORIZON	FAI	VERTICA	ΛI	
	St Johns Co	unity Si	22			10. 0			ie, FLW (U.S. Ft.) NAD83		NAV		
2. BO	RING DESIGN	IATION		LOCATION COO	RDINATES	11. N			RER'S DESIGNATION OF DRILL		UTO HAM		-
	VB-SAFS15-		I	X = 880,041	Y = 2,024,037		vibra	core		=	IANUAL H		
	LLING AGEN			co	NTRACTOR FILE NO.	12. T	OTAL :	SAMPI	DISTURBED	i	NDISTURE	BED (UD))
	Corps of Eng		- CESAJ	<u>i</u>	6738-15-5449				<u> </u>	_	0		-
	Talon Smith								ER CORE BOXES ()				
	ECTION OF E	BORING	;	DEG. FROM	BEARING	14. E	LEVAT	ION G	ROUND WATER		1		
	VERTICAL INCLINED			VERTICAL		15. D	ATE B	ORING	STARTED 07-07-	15	07-0		
	ICKNESS OF	OVERB	URDEN	: N/A	<u> </u>	16. E	LEVAT	ION T	TOP OF BORING -6.6 Ft.	10	1 07-0	7-13	
	PTH DRILLED			N/A					VERY FOR BORING 78 %				
	TAL DEPTH O					18. S	IGNAT	URE A	AND TITLE OF INSPECTOR				
o. 10	IAL DEPIR O	— г	19	9.9 Ft.			,	I	Τ		_	111	-
ELEV.	DEPTH	LEGEND	С	LASSIFICATION (OF MATERIALS	% REC	BOX OR SAMPLE	RQD OR UD	REMAR	(S	BLOWS/	N-VALUE	
-6.6	0.0								-6.6				7
-0.0	- 0.0		SILT, ino	rganic-H, few fin	e-grained sand-sized				-0.0				+0
	<u> </u>	-		ace shell, weak r dark gray (MH)	eaction with HCI,								Ŀ
	-		it or very	dant gray (wii i)									\vdash
	F	7											F
	Ļ	-											L
	ţ												t
	-												ŀ
	F												F
	-	* * *											F
	-												F
	ŀ												Ł
	F	* * *											-5
	F	╟╟╟	∽At El12	.0 Ft., discontinu	ie shell								F
	Ŀ			,									L
	Ł												Ł
	-												F
	F												F
	<u> </u>	* * *				78	3		Vibraco	re			ţ
-14.7	_8.1	┃ ┩┩┩	SAND ei	lty mostly fine_a	rained sand-sized	\dashv							F
	L	 	quartz, so	ome silt, weak re									Ł
-15.6	9.0	11111	N 4/ dark	gray (SM) 5.3 Ft., little silt, 2	5Y 5/1 gray	A							F
	F	[::]]	SAND, po	oorly-graded with	silt, mostly	۱ ا							F
	Ļ	-:			uartz, few silt, weak 1 gray (SP-SM)								<u>-</u> 1
	Ł	<u> </u> :-	reaction V	witii ⊓Ui, ∠.5¥ b/	ı yıay (SP-SIVI)								F '
	F	.: <u> </u>											F
	F	-: <u> </u>	∽At El17	7.5 Ft., 2.5Y 5/1	gray								F
	<u> </u>	:· 	∽At El18	.1 Ft., few fine-o	rained sand-sized								Ł
	F	- <u> </u>	shell, 2.5	Y 6/1 gray									F
	ļ.	:: <u> </u>											þ
	L	:·											Ł
	-	- <u> </u>											F
	ļ.	:: <u> </u>											ļ.
	<u> </u>	::	\ A + E \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0.54 4									F
	Ł	-: <u> </u>	"At El20	.8 Ft., trace shel	I								Ł
Ī	Г	1. IIII				1	1	1	I			1	г

DRILLI	NG LO	G (Cont. Sheet)	INSTALLA Jackso		Distri	nt .			SHEE OF 2	T 2 SHEET:	s	
ROJECT	COORDINA		VERTICAL		٦							
St Johns Co	State F	lane,	NAVD8									
OCATION CO	ORDINATE	s	ELEVATIO	N ТОР	OF B	ORIN	G					
X = 880,04	1 Y=2	,024,037	-6.6 Ft									
ELEV. DEP	LEGEND HT	CLASSIFICATION OF MATE	RIALS	ĸEC.	BOX OR SAMPLE	RQD OR UD		REMARK	s .	ALCHAS	1	
-22.1 15.5	; <u> : </u>											
	NO RECOVERY			78				Vibracoi	re		-	
-26.5 19.9	,						-26.5				E	
		NOTES: 1. USACE Jacksonville is the custhese original files. 2. Soils are field visually classified accordance with the Unified Soils System.										