orob all	Die	(in ): 4	,		T. 1	ol Dar	th /#\. ^	. 0	Drainet: CCEL ICE	A Data Can Carrell	na 2040 /0:45	oll 000 A'					_
orehole							th (ft): 0		•	A Data Gap Sampl		•					_
orthing			996.79				t): <b>268</b> 3		Job Number: 1008208			(North - Build					
rill Star			8-2010				e: <b>10:3</b>		Logged By: A. Ruot			By: <b>B. Marta</b>		P.G.	#83	56	
rill Finis							ne: <b>13:0</b>		Drilling Contractor: B.		Field Inst	rumentation: I	PID				
epth 1s		-		N/A			ne: N/A		Drill Rig Type/Method:								_
epth H <sub>2</sub>							ne: N/A		Driller's Name: M. Ho								
							ed prior	to augering		Well Comp. Date:		Completion	Time		N/A		
amplers	: 6-in	ch sta	inless	steel	sleev	re		T		Soil Backfill Date:	02-08-2010	Backfill Time			3:07		
Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification		ı	Description			Gravel	Coarse Sand	Med. Sand	Fine Sand 6	
					٦			Asphalt ove	er gravel road base								
s			0.4		-		SP	Poorly Grad	ded Sand, yellowish bro ssibly weathered sands	wn (10YR 5/4), med tone [Native]	lium dense, mo	oist, mica			50	45	
			0.4		2- 3- 5- 6-			Sandstone, contains qu Total Depth Collected s	dark yellowish brown ( lartz, feldspar, and mica n = 0.9 ft; terminated dur oil sample S001 at 13:0 with soil cuttings and sea	10YR 4/4), weathere i, iron oxidation [Cha e to refusal on bedro 5.	atsworth Forma	friable, ation]					=
	7-																
					8-												
					9-												
					9-												

<u> </u>	MW		,		T-1-1	Dorth (fi)	. 00	Boring ID: ILBS		2040 (0:-45	M 000 A===\					_
Borehole						Depth (ft):		1	A Data Gap Sampling	· · · · · · · · · · · · · · · · · · ·	•	· <i>(</i>		>		_
lorthing			018.41			ng (ft): 20		Job Number: 1008208			(North - Build					_
orill Star						Time: 10		Logged By: A. Ruot			By: B. Marta		P.G.	#83	56	—
orill Finis						h Time: 10		Drilling Contractor: B.		Field Instr	umentation: F	טוי				—
epth 1s				I/A		/ Time: N		Drill Rig Type/Method:								—
epth H <sub>2</sub>						/ Time: N		Driller's Name: M. Ho			T					_
						, cored pr	ior to augering		Well Comp. Date: N		Completion			I/A		
amplers -	: 6-in	ich sta	inless	steel	sleeve				Soil Backfill Date: 0	2-08-2010	Backfill Time			1:21		-
Sample interval Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log USCS Soil		<b>!</b> ver 1 inch of gravel road b	<b>Description</b> pase			Gravel	Coarse Sand	Med. Sand	Fine Sand	
							,	Ü								
	s 1.2					SP	Poorly Gra	aded Sand, dark greenish	gray (GLEY 1 4/1), m	edium dense	e, moist,		tr	60	40	t
× S			1.2					ent, mild to moderate hyd								╧
					1-			e, dark yellowish brown (1 Juartz, feldspar, and mica			riable,					T
								th = 0.9 ft; terminated due								
					1											
							Collected	soil sample S001 at 10:5	ö.							
							Backfilled	with soil cuttings and sea	led with cold patch.							
					2-			-								
	-															
					2											
	3-															
					4											
					4-											
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					+											
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Rorobala	Diam	(in ): 1	2		Тс	tal Dan	th (ft).		ng ID: <b>ILBS</b>	A Data Gap Sampli	ng 2010 (O.:46	all OOG Araa\					
Borehole							th (ft): 0				-		4	<b></b>	>		_
Northing			989.7				t): <b>268</b> 3		umber: 1008208			(North - Build					
Orill Start			8-2010				e: 10:2		d By: A. Ruot			By: <b>B. Marta</b>		P.G.	#83	56	
Orill Finis							ne: <b>12:5</b>		Contractor: B.I		Field Insti	umentation: F	טוי				_
Depth 1st		•		N/A			ne: N/A		ig Type/Method:								_
Depth H <sub>2</sub> 0							ne: N/A		s Name: M. Ho								
							ed prior	o augering		Well Comp. Date:		Completion			I/A		_
Samplers	: 6-in	ch sta	inless	stee	l sleev	ve				Soil Backfill Date:	02-08-2010	Backfill Time			3:00		
Sample Interval Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification		ſ	Description			Gravel	Coarse Sand	Med. Sand	Fine Sand 8	il
					0-			Asphalt over of gra	evel road base								
s			0.7		-		SP	Poorly Graded San present, possibly w	nd, yellowish brov veathered sandst	vn (10YR 5/4), med one [Native]	ium dense, mo	ist, mica			50	45	
					1- 2- 3- 4- 5-			Sandstone, dark ye contains quartz, fele Total Depth = 0.9 ft Collected soil samp Backfilled with soil of the collected soil s	ellowish brown (1 ldspar, and mica t; terminated due ple S001 at 12:59	0YR 4/6), weathere, iron oxidation [Chae to refusal on bedro	ntsworth Forma	friable, tion]					
	6-																
	7-																
					8-												
					9—												
					10-												

	MW	/H							Boring ID: ILBS	60311							_
Borehole	Diam.	(in.): \$	3		То	tal Dep	oth (ft): 0	).7		RA Data Gap Sampling							_
Northing						sting (f			Job Number: 100820			(North - Build					_
Orill Start							e: 13:2		Logged By: A. Ruot			By: <b>B. Marta</b>		P.G.	#83	56	_
Orill Finis Depth 1st				N/A			ne: <b>13:2</b> ne: <b>N/A</b>		Drilling Contractor: <b>B</b> . Drill Rig Type/Method:		Fleid Insti	rumentation: I	N/A				-
Depth H <sub>2</sub> 0							ne: N/A		Driller's Name: M. Ho								-
								to augering		Well Comp. Date: N	N/A	Completion	Time	e: N	I/A		
Samplers	: No	sampl	e colle	ected	t			I		Soil Backfill Date: 0	2-08-2010	Backfill Time			IR		
Sample Interval Retained Sample Type	Recovery (%)	, nt/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification		ı	Description				Sand	Med. Sand	Sand	il
Sam Sam	Recc (%)	Blow Count/6"	<u>B</u>	Wate	Dept	Grap	USC						Gravel	Coarse	Med.	Fine	_
					·			Asphalt									l
					_			Gravel road	d base, very moist to we	t							_
					1			∖contains qu	, dark yellowish brown ( uartz, feldspar, and mica n = 0.7 ft; terminated du	[Chatsworth Formation	on]	friable,					
					_				ple collected.	e to relacal on bearder							1
					2			Borehole se	ealed with cold patch.								
					2												1
					-												
					3-												ì
					-												1
					4												ĺ
					-												1
					5-												1
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					10-												

Oprobal -	Die	(in ): '	•		<b></b>	tal Da	th (ft): ^		Boring ID: ILBS		na 2040 /O4	nll 000 A)					_
Borehole							th (ft): 0		-	A Data Gap Sampli			· <i>(</i>	<b></b>	>		_
Northing			6038.4				t): <b>2683</b>		Job Number: 1008208			(North - Build					
Orill Start			8-2010				e: 11:0		_ogged By: A. Ruot			By: <b>B. Marta</b>		P.G.	#83	56	
Orill Finis							ne: <b>11:0</b>		Orilling Contractor: <b>B.</b> l		Field Inst	umentation:	N/A				_
Depth 1s		-		N/A			ne: N/A		Orill Rig Type/Method:								_
Depth H <sub>2</sub>							ne: N/A	•	Oriller's Name: M. Ho			I					_
							ed prior	to augering		Well Comp. Date:		Completion	Time		I/A		_
Samplers	: 6-in	ch sta	inless	stee	el sleev	ve				Soil Backfill Date:	02-08-2010	Backfill Time			1:21		_
Sample interval Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Asnhalt over	I inch of gravel road b	Description			Gravel	Coarse Sand	Med. Sand	Fine Sand 6	
								7 oprian over	Timori or graver roda s	400							
s					_		SP	Poorly Grade mica present,	ed Sand, dark greenish , mild to moderate hyd	gray (GLEY 1 4/1), rocarbon odor (no a	medium dens ambient PID) [N	e, moist, lative]		tr	60	40	
××					1-				lark yellowish brown (1			friable,					F
									rtz, feldspar, and mica = 0.9 ft; terminated due								
					-			·	= 0.9 π; terminated due I sample S001 at 13:50		JUN.						
	<b>2</b> — Ba							Backfilled wit	th soil cuttings and sea	led with cold patch.							
	3-																
	3-																
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<u> </u>		MW				1_	4-15	41- 750 - 5		Boring ID: ILBS		0040 (5. /5.						_
			(in.): 3					th (ft): <b>0</b> .		_	RA Data Gap Sampli							_
lorthi				933.7				t): <b>2683</b>		Job Number: 1008208			North - Grass					_
			02-0					e: 13:03		Logged By: S. Aichi			By: <b>B. Marta</b>		P.G.	#83	56	_
			02-0	8-2010	0			ne: <b>13:2</b> 0		Drilling Contractor: B.		Field Instr	umentation: <b>F</b>	PID				_
		H₂O (f	_		N/A			ne: N/A		Drill Rig Type/Method:								_
			Drilling					ne: N/A		Driller's Name: R. Ca			T					
omm	nent	s: Nat	ive so	il and	weed	ds at s	urface				Well Comp. Date:		Completion	Time	e: <b>N</b>	I/A		_
	lers:	6-in	ch sta	inless	stee	el sleev	ve				Soil Backfill Date:	02-08-2010	Backfill Time			3:25		_
Sample interval Retained	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification		ı	Description			Gravel	Coarse Sand table	Med. Sand of	Fine Sand oo	il
	S			0.4		_		SC					70	•				
						1-			Total Depth	= 0.8 ft; terminated due	e to refusal on bedro	ock.						
									Collected so	oil sample S001 at 13:0	8.							
						-												
									Racktilled M	vith soil cuttings.								
						2-												
						_												
						3-												
						_												
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orehol	e Diam	(in ):	3		То	tal Den	oth (ft): <b>0</b>		Boring ID: ILBS Project: SSFL - ISR	A Data Gap Sampli	na 2010 (Outf	all 009 Area\					_
lorthing			5 5917.57	7			t): <b>268</b> 3		Job Number: 1008208			(North - Grass	٠,				_
														D.C.	400	F.C	_
	rt Date:						e: 13:3		Logged By: S. Aichr		I	By: <b>B. Marta</b>		P.G.	#83	56	
	sh Date						ne: 13:4		Drilling Contractor: B.I		Field Inst	rumentation: I	טוי				_
	st H <sub>2</sub> O			N/A			ne: N/A		Drill Rig Type/Method:								_
	<sub>2</sub> O Afte				Da	ite / Tin	ne: N/A		Driller's Name: R. Ca								
	nts: As									Well Comp. Date:		Completion	Time		I/A		
	rs: <b>6-i</b>	nch sta	ainless	stee	l sleev	/e		T		Soil Backfill Date:	02-08-2010	Backfill Time			3:50		
Retained	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification			Description			Gravel	Coarse Sand	Med. Sand	Fine Sand 6	
					Ū			Asphalt pav	ement								
s	;		0.2		_		SM	Silty Sand, y	yellowish brown (10YR	5/6), moist, trace cla	ay, micaceous	[Native]				60	4
$\otimes$						and the		\Sandstone,	weathered [Chatsworth	Formation]							ŧ
					1-				= 0.8 ft; terminated due		ock.						
								Collected as	oil sample S001 at 13:3	5							
					_												
								Backfilled w	ith soil cuttings and sea	led with cold patch.							
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	2-																
					3-												
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–		<i>.</i> . , -					u (60) 5	•	Boring ID: ILBS		0046 (0						—
Borehole E							th (ft): 0.			A Data Gap Sampli							
lorthing (f			957.5				): 2683		Job Number: 1008208			(North - Grass					_
Orill Start I							: 12:48		Logged By: S. Aichn			By: <b>B. Marta</b>		P.G.	#83	56	
rill Finish							ne: <b>12:55</b>	5	Drilling Contractor: B.L		Field Instr	umentation: F	PID				
epth 1st				N/A			e: N/A		Drill Rig Type/Method:								
Depth H <sub>2</sub> O							e: N/A		Driller's Name: R. Car								
Comments										Well Comp. Date:		Completion					
amplers:	6-in	ch sta	inless	stee	el sleev	/e				Soil Backfill Date:	02-08-2010	Backfill Time			3:00		
Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification			escription			Gravel	Coarse Sand	Med. Sand of	Fine Sand	
s			0.3		1- 2- 3- 5- 6-		SC	Sandstone Total Depti	nd, dark yellowish brown in the second sample S001 at 12:50 with soil cuttings.	Formation] to refusal on bedro		us [Native]				70	
					7— - 8—												
					9—												

	MW				T_	4-15	. 41 <sub>2</sub> /£1\ =		Boring ID: ILBS		mm 0040 /0 /	.II 000 A					_
Borehole				_			oth (ft): 0			A Data Gap Sampli							
Northing			5956.8				t): <b>268</b> 3		Job Number: 1008208			(North - Grass					
Drill Start			8-2010				e: <b>12:1</b>		Logged By: S. Aichi			By: B. Marta		P.G	#83	56	
Drill Finis							ne: <b>12:4</b>		Drilling Contractor: B.		Field Instr	umentation: I	PID				
Depth 1st				N/A			ne: N/A		Drill Rig Type/Method:								_
Depth H <sub>2</sub> 0							ne: N/A		Driller's Name: R. Ca								
Comment										Well Comp. Date:		Completion			N/A		_
Samplers =	: 6-ir	nch sta	unless	ste	el slee	ve				Soil Backfill Date:	02-08-2010	Backfill Time			2:45		
Sample Interval Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification		,	Description			Gravel	Coarse Sand	Med. Sand	Fine Sand 8	Cilt/Clox
∭ s			0.2	П	0-		SC	Clayey Sand	d, dark brown (10YR 3/	3), loose, moist, mic	aceous [Native	]				60	40
						<i>[:/:/:/./</i>		\Sandstone, \	weathered [Chatsworth	Formation]							=
					-	-		Total Depth	= 0.3 ft; terminated due	e to refusal on bedro	ock.						
								Collected so	oil sample S001 at 12:3	5 Stenned out once	e to obtain sam	nle volume					
					1-				•	pp-a		<sub>F</sub> .0 .0.0.110.					
								Backfilled wi	ith soil cuttings.								
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Rorel	nole	Diam.	(in )· 1	3		To	ntal Den	th (ft): 5		oring ID: ILBS(	N Data Gap Sampli	na 2010 (Outfa	II 009 Area)					_
lorth				984.2	۵			t): <b>268</b> 2		ob Number: 1008208	C Data Gap Sampii		(North - Grass	٠,				
				8-2010				e: <b>10:1</b>		ogged By: S. Aichne	~=				ВС	#02	EC	_
		Date:										I	By: <b>B. Marta</b>		P.G.	#03	<b>5</b> 0	
		n Date:						ne: 11:0		rilling Contractor: B.L		Fleid IIISti	umentation: <b>F</b>	עוי				_
		H <sub>2</sub> O (f			N/A			ne: N/A		rill Rig Type/Method:								_
		O After						ne: N/A	Dri	riller's Name: R. Can			Ta					
							urface				Well Comp. Date:		Completion			N/A		
	lers	: 6-in	ch sta	inless	stee	el slee	ve				Soil Backfill Date:	02-08-2010	Backfill Time			1:05		
Sample interval Retained	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification		D	escription			Gravel	Coarse Sand	Med. Sand	Fine Sand	
	8			0.9		0- 1- 2- 3- 4-		SC		dark brown (10YR 3/3		aceous [Native					60	
$\times$						5-	7.7.7.7.7		Total Depth = 5	5.0 ft; terminated prior	to refusal on bedr	ock.						t
									Collected soil s	samples S001 at 10:28	8 and S002 at 10·5	0						
						-	1				J 4114 0002 at 10.0	<b>.</b> .						
									Backfilled with	soil cuttings.								
						6-	]											
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						-	1											
						8-												
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						9-	<del> </del>											
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	MW		. 414		- ·	-LD: 1	h /ft\: *	Boring ID: ILB		in = 0040 (0 )	-II 000 A: \					
orehole [							h (ft): 3.		RA Data Gap Sampl		•					
lorthing (f			941.03				): <b>2682</b>				(North - Grass					
rill Start I							: 09:4	Logged By: S. Aic			d By: <b>B. Marta</b>		P.G	. #83	56	
rill Finish							e: <b>10:0</b>	Drilling Contractor: \$		<u> </u>	rumentation: I	PID				
epth 1st				N/A			e: <b>N/A</b>	Drill Rig Type/Method		Push						
epth H <sub>2</sub> O					•		e: <b>N/A</b>	Driller's Name: Eric								
omments									Well Comp. Date:	N/A	Completion	Time		N/A		
amplers:	Mac	rocor	e, disc	crete	sample	s retai	ined in 6	ch stainless steel sleeves	Soil Backfill Date:	01-28-2010	Backfill Time			10:10		
5							_							% o	f So	oil
Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification		Description			Gravel	Coarse Sand	Med. Sand	Fine Sand	, id 0/41:0
s						45 45 4		ark micaceous topsoil with roots								$\perp$
S			0.1		1- 2- 3-		SM	andstone, weathered [Chatswor otal Depth = 3.0 ft; terminated d	th Formation] ue to refusal on bedr	ock.	Clay				75	2
					<b>4</b> — <b>5</b> — <b>6</b> —			ackfilled with soil cuttings toppe	d off with hydrated be	entonite.						
					7- 8-											

(in )	2-1/4		Tot	al Deni	th (ft\· 3			ng 2010 (Outf	all 009 Aros)					
		<u> </u>				•	•	-,	•	٠,				_
											D C	#83	56	
									-		r.G.	#03	30	
						I			umentation. r	טוי				_
								uən						_
			•		ie. IVA	Dillier's Name. Enc.		N/A	Completion	Time	· N	I/A		_
					and in 6	inch stainloss stool sloovo			•					_
acrocor	e, uisc	rete s	Sample	e retaii		ilicii staiiliess steel sleeve	Soil Backilli Date.	01-20-2010	Dackiiii Tiilie					
Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log			·				Sand	Med. Sand	Fine Sand	.0,0
	0.5		1— -		SM									
			2-	Total Depth = 2.0 ft; terminated due to refusal on bedrock.										ŧ
				Collected soil sample S001 at 09:30.										
			4											
				Backfilled with soil cuttings and topped off with hydrated bentonite.										
			4— 5— 6— 7— 8—											
t	1799 e: 01-2 te: 01-2 (ft): er Drillin ative so	n. (in.): 2-1/4 1795932.19 e: 01-28-2010 te: 01-28-2010 o(ft): N er Drilling (ft): N ative soil and v lacrocore, disc	n. (in.): 2-1/4 1795932.19 e: 01-28-2010 te: 01-28-2010 o(ft): N/A er Drilling (ft): N/A ative soil and weed lacrocore, discrete	1. (in.): 2-1/4 Tot 1795932.19 Each 1795932.19	n. (in.): 2-1/4 Total Dep 1795932.19 Easting (ft) e: 01-28-2010 Finish Time of (ft): N/A Date / Time er Drilling (ft): N/A Date / Time ative soil and weeds at surface lacrocore, discrete sample retain  (in.): 2-1/4 Finish Time of (ft): N/A Date / Time ative soil and weeds at surface lacrocore, discrete sample retain  (in.): 2-1/4 Finish Time of (ft): N/A Date / Time ative soil and weeds at surface lacrocore, discrete sample retain  (in.): 2-1/4  Total Dep Finish Time of (ft): N/A Date / Time ative soil and weeds at surface lacrocore, discrete sample retain  (in.): 2-1/4  A	1. (in.): 2-1/4 Total Depth (ft): 2 1795932.19 Easting (ft): 2683 2: 01-28-2010 Start Time: 09:24 1e: 01-28-2010 Finish Time: 09:34 1er Drilling (ft): N/A Date / Time: N/A 2	n. (in.): 2-1/4 Total Depth (ft): 2.0 Project: SSFL-IsCV 1795932.19 Easting (ft): 268307.16 Job Number: 1008208 collected soil and weeds at surface lacrocore, discrete sample retained in 6-inch stainless steel sleeve lacrocore, discrete sample retained in 6-inch stainless steel sleeve lacrocore, discrete sample retained in 6-inch stainless steel sleeve lacrocore, discrete sample retained in 6-inch stainless steel sleeve lacrocore, discrete sample retained in 6-inch stainless steel sleeve lacrocore, discrete sample retained in 6-inch stainless steel sleeve lacrocore, discrete sample stained in 6-inch stainless steel sleeve lacrocore, discrete sample stained in 6-inch stainless steel sleeve lacrocore, discrete sample stained in 6-inch stainless steel sleeve lacrocore, discrete sample stained in 6-inch stainless steel sleeve lacrocore, discrete sample stained in 6-inch stainless steel sleeve lacrocore, discrete sample stained in 6-inch stainless steel sleeve lacrocore, discrete sample retained in 6-inch stainless steel sleeve lacrocore, discrete sample stained in 6-inch stainless steel sleeve lacrocore, discrete sample retained in 6-inch stainless steel sleeve lacrocore, discrete sample stained in 6-inch stainless steel sleeve lacrocore, discrete sample stained in 6-inch stainless steel sleeve lacrocore, discrete sample stained in 6-inch stainless steel sleeve lacrocore, discrete sample stained in 6-inch stainless steel sleeve lacrocore, discrete sample stained in 6-inch stainless steel sleeve lacrocore, discrete sample stained in 6-inch stainless steel sleeve lacrocore, discrete sample stained in 6-inch stainless steel sleeve lacrocore, discrete sample stained in 6-inch stainless steel sleeve lacrocore, discrete sample stained in 6-inch stainless steel sleeve lacrocore, discrete sample stained in 6-inch stainless steel sleeve lacrocore, discrete sample stained in 6-inch stainless steel sleeve lacrocore, discrete sample stained in 6-inch stainless steel sleeve lacrocore, discrete sample stained in 6-inch stainless	n. (in.); 2-1/4 Total Depth (ft); 2.0 Project: SSFL - ISRA Data Gap Samplii 1795932.19 Easting (ft); 268307.16 Job Number: 1008208 to 01-28-2010 Start Time: 09-28 Logged By: S. Alchner to 01-28-2010 Finish Time: 09-38 Drilling Contractor: Strongarm (ft); N/A Date / Time: N/A Drilling Contractor: Strongarm develored by the Drilling (ft); N/A Date / Time: N/A Drilling Type/Method: Geoprobe/Direct Per Drilling (ft); N/A Date / Time: N/A Drilling Strongarm develored by the Drilling (ft); N/A Date / Time: N/A Drilling Type/Method: Geoprobe/Direct Per Drilling (ft); N/A Date / Time: N/A Drilling Type/Method: Geoprobe/Direct Per Drilling (ft); N/A Date / Time: N/A Drilling Type/Method: Geoprobe/Direct Per Drilling (ft); N/A Date / Time: N/A Drilling Type/Method: Geoprobe/Direct Per Drilling (ft); N/A Date / Time: N/A Drilling Type/Method: Geoprobe/Direct Per Drilling (ft); N/A Date / Time: N/A Drilling Type/Method: Geoprobe/Direct Per Drilling (ft); N/A Date / Time: N/A Drilling Type/Method: Geoprobe/Direct Per Drilling (ft); N/A Date / Time: N/A Drilling Type/Method: Geoprobe/Direct Per Drilling (ft); N/A Drilling Type/Method: Geoprobe/Direct Per Drilling Type/Direct Per Drilling Type/D	Description  1. (in.): 2-1/4 Total Depth (ft): 2.0 Project: SSFL - ISRA Data Gap Sampling 2010 (Outf. 1795932.19 Easting (ft): 26307.16 Job Number: 1008208 Site: IEL. 01-28-2010 Finish Time: 09:28 Logged By: S. Alchner Reviewer (by 1-28-2010 Finish Time: 09:38 Drilling Contractor: Strongarm Field Inst. (ft): N/A Date / Time: N/A Drill Rig Type/Method: Geoprobe/Direct Push er Drilling (ft): N/A Date / Time: N/A Drill Rig Type/Method: Geoprobe/Direct Push er Drilling (ft): N/A Date / Time: N/A Drill Rig Type/Method: Geoprobe/Direct Push er Drilling (ft): N/A Date / Time: N/A Drill Rig Type/Method: Geoprobe/Direct Push er Drilling (ft): N/A Date / Time: N/A Drill Rig Type/Method: Geoprobe/Direct Push er Drilling (ft): N/A Date / Time: N/A Drill Rig Type/Method: Geoprobe/Direct Push er Drilling (ft): N/A Drill Rig Type/Method: Geoprobe/Direct Push er Drilling (ft): N/A Drill Rig Type/Method: Geoprobe/Direct Push er Drilling (ft): N/A Drill Rig Type/Method: Geoprobe/Direct Push er Drilling (ft): N/A Drill Rig Type/Method: Geoprobe/Direct Push er Drilling (ft): N/A Drill Rig Type/Method: Geoprobe/Direct Push er Drilling (ft): N/A Drill Rig Type/Method: Geoprobe/Direct Push er Drilling (ft): N/A Drill Rig Type/Method: Geoprobe/Direct Push er Drilling (ft): N/A Drill Rig Type/Method: Geoprobe/Direct Push er Drilling (ft): N/A Drill Rig Type/Method: Geoprobe/Direct Push er Drilling (ft): N/A Drill Rig Type/Method: Geoprobe/Direct Push er Drilling (ft): N/A Drill Rig Type/Method: Geoprobe/Direct Push er Drilling (ft): N/A Drill Rig Type/Method: Geoprobe/Direct Push er Drilling (ft): N/A Drill Rig Type/Method: Geoprobe/Direct Push er Drilling (ft): N/A Drill Rig Type/Method: Geoprobe/Direct Push er Drilling (ft): N/A Drill Rig Type/Method: Geoprobe/Direct Push er Drilling (ft): N/A Drill Rig Type/Method: Geoprobe/Direct Push er Drilling (ft): N/A Drill Rig Type/Direct Push er Drilling (ft): N/A Drill Rig Type/Direct Push er Drilling (ft): N/A Drill Rig Type/Direct Push er Drill Rig Type/Direct Push er Drilling (ft): N/A D	1. (in.): 2-1/4 Total Depth. (it): 2.0 Project: SSFL - ISRA Data Gap Sampling 2010 (Outfall 009 Area). 1799332-19 Easting (it): 268307-16 Job Number: 1008208 Site: IEL (North - Gaze of 1-28-2010 Finish Time: 09-28 Logaged By: S. Alchner Reviewed By: B. Martie: 01-28-2010 Finish Time: 09-38 Drilling Contractor: Strongarm Field Instrumentation. If the Proling (it): NA Date / Time: NA Drill Rig TypeMethod: GeoprobeDirect Push at the soil and weeds at surface acrocore, discrete sample retained in 6-inch stainless steel sleeve Soil Backfill Date: 01-28-2010 Backfill Time (It): Soil Backfill Date: 01-28-2010 Backfill Date:	1. (in.): 2-1/4 Total Depth (ft): 2.0 Project: SSPL - ISRA Data Gap Sampling 2010 (Outfall 009 Area) 179932-19 Easting (ft): 288307-16 Job Number: 1008208 Site: IEL (North- Grass) 179932-19 (In.): 28141 Time: 09:28 Logged By: S. Alchner Reviewed By: B. Martasin, 1899-1899-1899-1899-1899-1899-1899-1899	Control   Cont	DOINT 10.1 2-1/4 Total Depth (ff): 2.0 Project: SSFL: ISRA Data Gap Sampling 2010 (Outfall 009 Area) 1799932-19 Easting (ff): 288307.16 Job Number: 1008208 Site: IEL (North - Grass) 2 01-28-2010 Start Time: 09-28 Logoed By: S. Alchere Reviewed By: B. Martasin, P.G. #83 (ff): NA Data / Time: NA Diff (ff) type-Method: Geoprobe/Direct Push etc 01-28-2010 project ISRA: Data / Time: NA Diff (ff) type-Method: Geoprobe/Direct Push etc Poling (ff): NA Data / Time: NA Diff (ff) type-Method: Geoprobe/Direct Push etc Poling (ff): NA Diata / Time: NA Diff (ff) type-Method: Geoprobe/Direct Push etc Poling (ff): NA Diata / Time: NA Diff (ff) type-Method: Geoprobe/Direct Push etc Poling (ff): NA Diata / Time: NA Diff (ff) type-Method: Geoprobe/Direct Push etc Poling (ff): NA Diata / Time: NA Diff (ff): N	Dolling (In): 2-1/4 Total Depth (In): 2.0 Project: SSFL - IsRA Data Gap Sampling 2010 (Outfall 009 Area)  1795932-19 Esating (III): 289307-16 Job Number: 1008208 Size: IEL (North-Grass)  1-2-2-010 Start Time: 09:28 Logaed By: S. Alchner Reviewed By: B. Martasin, P.G. #8356  18: 01-2-2-010 Finish Time: 09:38 Drilling Contractor: Strongarm Field Instrumentation: PID  18: 01-2-2-010 Drilling (III): NA Date / Time: NA Driller's Name: Eric / Walter  20 are polling (III): NA Date / Time: NA Driller's Name: Eric / Walter  20 are coroor, discrete sample retained in 6-inch stainless steel sleeve Soil Backfill Date: 01-28-2010 Backfill Time: 09:34 Drilling (III): NA Driller's Name: Eric / Walter  20 Description Description  20 Description  20 Description  3 Description  3 Description  4 Description  5 Description  5 Description  5 Description  5 Description  6 Description  7 Description  7 Description  8 Description  8 Description  8 Description  8 Description  9 Description  1 Description  2 Description  3 Description  5 Description  6 Description  7 Description  7 Description  8 Description  8 Description  8 Description  9 Description  1 Description  2 Description  3 Description  5 Description  5 Description  5 Description  5 Description  5 Description  5 Description  6 Description  7 Description  7 Description  8 Description  9 Description  9 Description  9 Description

Soreh	prehole Diam. (in.): 2-1/4  Total Depth (ft): 2.0  Prothing (ft): 1795918.48  Easting (ft): 268298.63  Jeth Indian Date: 01-28-2010  Eill Finish Date: 01-28-2010  Epth 1st H <sub>2</sub> O (ft): N/A  Eapth H <sub>2</sub> O After Drilling (ft): N/A  Date / Time: N/A  Date / Time: N/A  Date / Time: N/A  Demments: Hydroseeded backfill at surface  Emplers: Macrocore, discrete sample retained in 6-inch stainless sampless sampless sampless sampless sampless sampless sampless sampless s	Boring ID: ILBS0322  Project: SSFL - ISRA Data Gap Sampling 2	2010 (Outfall 000 Area)					_							
		Page (ft): 1795918.48 Easting (ft): 268298.63  Part Date: 01-28-2010 Start Time: 08:40  Part Date: 01-28-2010 Finish Time: 09:20  Part H <sub>2</sub> O (ft): N/A Date / Time: N/A  Part Drilling (ft): 268298.63  Part Drive: 08:40  Part Time: 08:40  Part Drive: N/A  Part Drilling (ft): 268298.63  Part Drive: 08:40  Part Drive: N/A  Part		Site: IEL (North - Grass	.,				_						
						D C	#02	EG	_						
			Date: 01-28-2010 Start Time: 08:40  Date: 01-28-2010 Finish Time: 09:20  H <sub>2</sub> O (fft): N/A Date / Time: N/A  After Drilling (ff): N/A Date / Time: N/A  Hydroseeded backfill at surface  Macrocore, discrete sample retained in 6-incle  Macrocore, Signification  Output  Date: 01-28-2010 Finish Time: 09:20  Date / Time: N/A  Hydroseeded backfill at surface  Macrocore, discrete sample retained in 6-incle  Signification  Significa		Reviewed By: <b>B. Marta</b> Field Instrumentation: <b>F</b>		P.G.	#03	<b>00</b>	_					
		rt Date: 01-28-2010 Start Time: 08:40  ish Date: 01-28-2010 Finish Time: 09:20  st H <sub>2</sub> O (ft): N/A Date / Time: N/A  d <sub>2</sub> O After Drilling (ft): N/A Date / Time: N/A  ints: Hydroseeded backfill at surface  rs: Macrocore, discrete sample retained in 6-inch surface  rs: Macrocore, discrete sample retained in 6-inch surface  st Date / Time: N/A  ints: Hydroseeded backfill at surface  rs: Macrocore, discrete sample retained in 6-inch surface  st Date / Time: N/A  Sitty National Surface  SM Sitty National Su	Drilling Contractor: Strongarm  Drill Rig Type/Method: Geoprobe/Direct Push	-	עוי				_						
	Start Date: 01-28-2010 Start Time: 08:40  Finish Date: 01-28-2010 Finish Time: 09:20  Ith 1st H <sub>2</sub> O (fft): N/A Date / Time: N/A  Ith H <sub>2</sub> O After Drilling (fft): N/A Date / Time: N/A  Imments: Hydroseeded backfill at surface  Implers: Macrocore, discrete sample retained in 6-inch stainle  Implems: N/A Date / Time: N/A  Implems: Macrocore, discrete sample retained in 6-inch stainle  Implems: N/A Date / Time: N/A  Implems: N/A Date /	Driller's Name: Eric / Walter	ı					_							
		Well Comp. Date: N/A	A Completion	Time	· N	N/A		_							
						9:24		_							
	1015	IVIA	LIUCUI	e, uist	rete	Samp	ie retai		II Stairliess steer sieeve Soli Backiili Date. U1-2	-20-2010   Dackilli Hillie			% of		ī
Retained	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description		Gravel	Coarse Sand	Med. Sand	Fine Sand	
	S	SE: Macrocore, discrete sample retained in 6-inco (%) (%) (%) (%) (%) (%) (%) (%) (%) (%)		SM	Silty Sand, yellowish brown (10YR 5/8), medium dense, mo Native]	ist, micaceous				75	-				
<u>a</u>						2-	.51745.4.3		Sandstone, weathered [Chatsworth Formation]						Ξ
		0.3			Total Depth = 2.0 ft; terminated due to refusal on bedrock.						l				
		0.3   1-   3-   3-   4-   -							Collected soil sample S001 at 09:05.						l
		Macrocore, discrete sample retained in 6-inct  Becovery  Recovery							l						
	ments: Hydroseeded backfill at surface plers: Macrocore, discrete sample retained in 6-inch sta  Mater Tenes (bbm)  Mater Pologo (control of the pologo of t	Backfilled with soil cuttings and topped off with hydrated ber	entonite.					ı							
		Recovery (%) (%) (%) (%) (%) (%) (%) (%) (%) (%)											Ì		
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<u>Borehole</u>							th (ft): 2			A Data Gap Sampli							_
Northing			5958.8				t): <b>2682</b>		Job Number: 1008208			(North - Grass					_
Orill Start							e: <b>09:3</b>		Logged By: S. Aichr		1	By: <b>B. Marta</b>		P.G.	#83	56	_
Orill Finis							ne: <b>10:0</b>		Drilling Contractor: B.I		Field Instr	umentation: F	PID				_
Depth 1s				N/A			ne: N/A		Drill Rig Type/Method:								_
Depth H <sub>2</sub>							ne: N/A		Driller's Name: R. Ca			1					_
Commen	ts: Nat	tive so	il and	wee	ds at s	surface				Well Comp. Date:		Completion	Time		I/A		_
Samplers	: 6-ir	nch sta	inless	ste	el slee	ve				Soil Backfill Date:	02-08-2010	Backfill Time			0:05		
Sample Interval Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification			Description			Gravel	Coarse Sand ta	Med. Sand	Fine Sand	
s			1.5		1- 2-		SC		d, dark brown (10YR 3/3		aceous [Native					70	
						*****			weathered [Chatsworth								f
					-			I otal Depth	= 2.3 ft; terminated due	to retusal on bedro	OCK.						
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			(in.): 3					th (ft): <b>0</b> .			RA Data Gap Sampli						
orthi				979.3				:): <b>2683</b>		Job Number: 1008208			(North - Grass				
			02-0					e: 11:10		Logged By: S. Aich		1	By: <b>B. Marta</b>		P.G.	#83	56
			: 02-0	8-2010	0			ne: 11:3		Drilling Contractor: B.		Field Instr	umentation:	PID			
		H <sub>2</sub> O (1			N/A			ne: N/A		Drill Rig Type/Method:							
			Drillin					ne: N/A		Driller's Name: R. Ca							
omn	nent	s: Nat	ive so	il and	weed	ds at s	urface				Well Comp. Date:		Completion	Time	: N	I/A	
	lers	: 6-ir	nch sta	inless	stee	el slee	/e				Soil Backfill Date:	02-08-2010	Backfill Time			1:40	
Retained	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification		ı	Description			Gravel	Coarse Sand is	Med. Sand of	Fine Sand 60
	S			0.3		1-		SC	Sandstone,	d, dark brown (10YR 3/weathered [Chatsworth = 0.8 ft; terminated due	n Formation]			tr			70
						-						JCK.					
		1— 2—							Collected so	oil sample S001 at 11:2	0.						
			0.3 SC 1—					Backfilled w	vith soil cuttings.								
						2-											
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Boreh	റില [	Diam.	(in )· '	3		To	ital Den	th (ft): <b>0</b>		Boring ID: ILBS  Project: ISRA Data 0	Gap Sampling 2010	). Outfall nng i	Boeina Prope	tv				
Northi				301.66				t): <b>179</b>		Job Number: 1008208		Site: IEL-		ιy				_
														on D	o wwi	. D (		_
		Date:		7-2010				e: 13:2		Logged By: V. Vatha			By: M. Milm		arris	s, P.C	<b>J</b> .	
		Date:						ne: 13:3		Drilling Contractor: B.L		Field Instr	umentation: I	N/A				_
		H <sub>2</sub> O (f			N/A			ne: N/A		Drill Rig Type/Method:								_
		) After						ne: N/A		Driller's Name: M. Ho								
						ed aba					Well Comp. Date:		Completion			N/A		
	lers:	San	nple re	etaine	d in (	6-inch	stainle	ss steel	sleeve		Soil Backfill Date:	07-27-2010	Backfill Time			3:31		
Sample Interval Retained	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil  Classification	Silty Sand v	rery pale brown (10YR 7	Description  7/3) loose dry no	odor or staining	(Fill -	Gravel	Coarse Sand	% on Med. Sand	So Pine Sand	
	s							Olvi	Reworked N	lative Soil]	170), 10030, dry, 110 (	odor or stairing	, į,			'	' '	-
$\otimes$						_			Candatana	Chataurath Farmatian								╪
										Chatsworth Formation] = 0.5 ft; refusal on bedr	rock		/					
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						1-	1		Collected so	oil sample S001 at 13:29	9.							
									Backfilled wi	ith soil cuttings.								
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Borel			Boring ID: LFBS Project: SSFL - ISR	A Data Gap Sampli	na 2010 /Outfo	II NNO Aros)												
			<b>'</b>				<b>D</b>	•	_ `		_							
		ng (ft): 1794279.74 Easting (ft): 267893.91 tart Date: 02-03-2010 Start Time: 10:30  1st H <sub>2</sub> O (ft): N/A Date / Time: N/A  H <sub>2</sub> O After Drilling (ft): N/A Date / Time: N/A  nents: Native soil at surface lers: 6-inch stainless steel sleeve  10:30  1st H <sub>2</sub> O (ft): N/A Date / Time: N/A  1conts: Native soil at surface  1cont Stainless steel sleeve  1cont Stainless steel sleeve  1cont Stainless steel sleeve  1cont Stainless steel sleeve		Job Number: 1008208			F-2 (Southern											
				Logged By: S. Aichi			By: V. Vatha		ın, P	G.								
				Drilling Contractor: B.		Field Instr	umentation: F	PID										
	Easting (ft): 1794279.74 Easting (ft): 267893.91 Start Date: 02-03-2010 Start Time: 10:13 Finish Date: 02-03-2010 Finish Time: 10:30 Date / Time: N/A Date / Time: N/A  Mater Drilling (ft): N/A Date / Time: N/A  Ments: Native soil at surface Deers: 6-inch stainless steel sleeve  Signature of the content of		Drill Rig Type/Method:								_							
							ate / Tin	ne: N/A		Driller's Name: M. Ho			1					
Com	men	ts: Nat	ive so	il at su	urfac	е					Well Comp. Date:	N/A	Completion	Time	e: <b>N</b>	I/A		
Sam	plers	: 6-in	ch sta	inless	stee	el slee	ve				Soil Backfill Date:	02-03-2010	Backfill Time			0:30		
Sample Interval Retained	Type	ıry		Œ	-evel	feet)	c Log	Soil ication		ı	Description			I	_	% of and		
x Sample II	Sample	Recove (%)	Blow Count/	PID (pp	Water I	Depth (		USCS			·			Gravel	Coarse Sand	Med. Sand	Fine Sand	Silt/Clay
	S			0.0		-		SM	Silty Sand, I	brown (10YR 4/3), loose	e, moist, micaceous	[Native]					60	40
		H,O After Drilling (ft): N/A  Date / Time: N/A  Lents: Native soil at surface  ers: 6-inch stainless steel sleeve  Mater Lend (%)  Mater Lend (bbm)  Mater Lend (bcm)  Mater L		yellowish brown (10YR = 1.0 ft; terminated due			ation] /					F						
				oil sample S001 at 10:20		· <del> · 11</del>												
										vith soil cuttings.								
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<b>(</b>		MW	/H							Boring ID: <b>LFB</b>	S0213A							
Borel	nole	Diam	(in.)	3		To	otal De	oth (ft). <b>U</b>			RA Data Gap Sampli	ing 2010 (Outf:	all 009 Area)					
					20					Job Number: 100820			.F-2 (Southern	Drai	inad	e)		
		ng (ft): 1794274.20 Easting (ft): 267874.14 Job tart Date: 02-04-2010 Start Time: 14:03 Log inish Date: 02-04-2010 Finish Time: NR Dril 1st H <sub>2</sub> O (ft): N/A Date / Time: N/A Dril H <sub>2</sub> O After Drilling (ft): N/A Date / Time: N/A Dril nents: In small clearing, bare soil covered with loose rock and butters: 6-inch stainless steel sleeve								Logged By: A. Rud			By: V. Vatha					
										Drilling Contractor: E			umentation:		, .	· ·		-
										Drill Rig Type/Method		1. 1010 11101						
			_							Driller's Name: R. C								
											Well Comp. Date:	N/A	Completion	Time	· N	I/A		
								ou with i	occo rock and	a barne rook aobrio	Soil Backfill Date:		Backfill Time			IR		
	J.O.C						Ī				con Backini Bate.		200			% of	So	il
Sample Interval Retained	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log				Description			Gravel	Coarse Sand	Med. Sand	Fine Sand	Silt/Clay
				0.0				SP	Poorly Grad	ded Sand, brown (10YI	R 5/3), dense, moist,	abundant mica	[Native]	5	10	40	40	5
	0	SP Pool Sal Tot Col																
										[Chatsworth Formation								
										= 0.5 ft; terminated du	ue to refusal on bedro	OCK.						
										oil sample S001 at 14:	04.							
										vith soil cuttings.								
						-	-		Dackilled Wi	nui son catarigs.								
						2_												
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LOG OF BORING OUTFALL009-2010.GPJ BOEING.GDT 3/28/11

<b>4</b>		ΜW	/H							Boring ID: <b>LFB</b> \$	50245							
Borol	_		(in.):			т.	ntal Do-	oth (ft): <b>0</b>	5	<u> </u>		ampling 2010 (Out	fall 000 Area					
					,					Job Number: 1891614		Site: LE						
										Logged By: S. Valer			d By: <b>M. Miln</b>	an B	arric	D (		
		(ft): 267826.02 Easting (ft): 1794219 t Date: 07-14-2009 Start Time: 11:20 th Date: 07-14-2009 Finish Time: 11:25 t H <sub>2</sub> O (ft): N/A Date / Time: N/A O After Drilling (ft): N/A Date / Time: N/A ts: Outside (to W) of debris area, exposed soil w s: Hand trowel (soil placed in stainless steel sle								Drilling Contractor: B.I			trumentation:		arris	, г.с	<b>.</b>	
		sh Date: 07-14-2009 Start Time: 11:20 sh Date: 07-14-2009 Finish Time: 11:25 st H <sub>2</sub> O (ft): N/A Date / Time: N/A  O After Drilling (ft): N/A Date / Time: N/A nts: Outside (to W) of debris area, exposed soil with s s: Hand trowel (soil placed in stainless steel sleeve)  O O O O O O O O O O O O O O O O O O O		<u> </u>	Drill Rig Type/Method:		<u> </u>	ti umentation.	IVA									
			_							Driller's Name: Ben C								
									nil with snarse			Date: N/Δ	Completion	Time	· •	I/A		
										e vegetation at surface		Date: <b>07-14-2009</b>	Backfill Tim			1:25		
	JICIO	. Hu		10. (3.	<u> </u>	iuccu ii	Juni		1 3100 407		OOII DUCKIIII I	5atc. 01-14-2005	Dackiii Tiii			% of		il
Sample Interval Retained	Sample Type	1— B									Description			Gravel	Coarse Sand	Med. Sand	Fine Sand	Silt/Clay
	s							ML	Sandy Silt, gravel, low	light yellowish brown (10 dry strength	OYR 6/4), stiff,	dry, subangular sa	ndstone	tr	tr	10	20	70
						-								┷				
									Total Deptr	h = 0.5 ft; terminated pric	or to refusal on	bedrock.						
						1-			Collected s	soil sample S001.								
									Backfilled v	with native soil.								
						_												
						_												
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LOG OF BORING OUTFALL009-2009.GPJ BOEING.GDT 5/4/10

Carob.	_	WW		<u> </u>		т	tal Dar	th (#\\- ^	Boring ID: <b>LFBS0246</b> 5 Project: SSFL - ISRA Data Gap Sampling 2010 (Outfall 009 Area)					—
		Diam.						th (ft): 0						_
Northi				322.12				t): 1794		D				_
		Date:						e: 11:2	77 .		arris	s, P.C	J.	
		Date:						ne: 11:4		N/A				_
		H₂O (f ) After			N/A			ne: N/A	Drill Rig Type/Method: Hand Trowel					_
								ne: N/A	Driller's Name: Ben Cisneros  Driller's Name: Ben Cisneros  Driller's Name: Ben Cisneros  Well Comp. Date: N/A  Completion	Time		N/A		_
									sleeve) Soil Backfill Date: 07-14-2009 Backfill Tim			11:40	`	_
	1013.	Hai	iu tiov	vei (sc		aceu ii	Stairii		Siecve)   Joil Backlill Date: 07-14-2003   Backlill Tilli			% of		 sil
Sample Interval	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description	Gravel	Coarse Sand	Med. Sand	Fine Sand	
	s					•		SM	Silty Sand, light yellowish brown (10YR 6/4), medium dense, dry	tr	tr	20	40	
$\otimes$						_								
									Total Depth = 0.5 ft; terminated prior to refusal on bedrock.					
						,			Collected soil sample S001.					
						1-	]		Backfilled with native soil.					
									Dagamod Will Hally Goll.					
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Northing (fft)	Borehole	- Diam	(in )·	2-1/4		Tota	al Dent	th (ft): 3	Boring ID: <b>LFBS0246A</b> Project: SSFL - ISRA Data Gap Sam	oling 2010 (Outf	all 009 Area\					
Doct   Sand   Date   0.2-0.2-010   Start   Time:   12:18   Logged By:   A Rucotolo   Reviewed By:   V Vathanasin; P.G.   Doct   Finish   Time:   12:24   Drilling (Contractor: Strongarm   Fined Instrumentation: PID					۵				-		•	Dra	inan	۵)		_
Delit Fish Date: 02-02-2010   Fisish Time: 12-24   Drilling Contractor: Strongarm   Depth 1st H.D. (ft): NA   Date / Time: N/A   Drilling Contractor: Strongarm   Depth 1st H.D. (ft): NA   Date / Time: N/A   Drilling Type/Method Geoprobe/Direct Push   Depth 1st H.D. (ft): NA   Drilling Type/Method Geoprobe/Direct Push   Depth 1st H.D. (ft): NA   Drilling Type/Method Geoprobe/Direct Push   Depth 1st H.D. (ft): NA   Drilling Type/Method Geoprobe/Direct Push   Depth 1st H.D. (ft): NA   Drilling Type/Method Geoprobe/Direct Push   Depth 1st H.D. (ft): NA   Drilling Type/Method Geoprobe/Direct Push   Drilling Type/Direct Push   Drillin		t Date: 02-02-2010 Start Time: 12:18 sh Date: 02-02-2010 Finish Time: 12:24  St H <sub>2</sub> O (ft): N/A Date / Time: N/A  O After Drilling (ft): N/A Date / Time: N/A  Its: Flat area, some dried vegetation at surface  S: Macrocore, discrete samples retained in 6-inch stainles  The control of the con														
Depth H.A. H.D. (III): MA Date / Time: NA Driller Shame: E. Herrera / D. Hawkins:  Comments: Flat area, some dried vegetation at surface  Well Comp. Date: NA Completion Time: NA Soll Backfill Date: 02-02-2010  Backfill Time: NA Description  Description  Description  Description  Description  SP Poorly Graded Sand, dark pellowish brown (10YR 4/4), medium dense, moist, orntains trace gravel-size sandstone fragments, mica [Native]  1 - Decomes wet  Soll Backfill Date: 02-02-2010  Backfill Time: NA Description  Description  Description  SP Poorly Graded Sand, dark yellowish brown (10YR 4/4), medium dense, moist, orntains trace gravel-size sandstone fragments, mica [Native]  1 - Decomes wet  Sandstone, light yellowish brown (10YR 8/4), slightly weathered, contains quartz, yellospar, and mica [Chatsworth Formation]  Total Depth -3.5 ft, terminated due to refusal on bedrock. Collected soil samples S001 at 12:22 and S002 at 12:24.  Backfilled with soil cuttings.			th Date: 02-02-2010  Thinsh Time: 12:24  The Date of t				-		ш, г	.G.						
Depth H.D. After Drilling (If): NAL Dete / Time: NA Driller's Name: E. Herrera / D. Hawklins Comments: Flat area, some dried vegetation at surface Well Comp. Date: NA Completion Time: NA Samplers: Macrocore, discrete samples rotatined in 6-inch stainless steel sleeve Soil Backfill Date: 02-02-2010 Backfill Time: 12-2											umentation. I	עוי				_
Comments: Flet area, some dried vegetation at surface  Samplers: Macrocore, discrete samples retained in 6-inch stainless steel sleeve  Soil Backfill Date: 02-02-2010  Backfill Tate: 02-02-2010  Backfill Date: 02-02-2010  Backfill Tate:																_
Samplers   Macrocore, discrete samples retained in 6-inch stainless steel sleeve   Soil Backfill Date: 02-02-2010   Backfill Time: 12-12-12-12-12-12-12-12-12-12-12-12-12-1											1					
Be and the property of the pro																
Beginning of the property of t		s: Ma	acroco	N/A   Date / Time: N/A   Drill Rig Type/Method: Geoprobe/Direct Push   Ing (ft); N/A   Date / Time: N/A   Driller's Name: E. Herrera / D. Hawkins     a, some dried vegetation at surface   Well Comp. Date: N/A   Completion Time: N/A			_									
s   0.0   1   1   2   2   2   3   2   2   3   3   3   3	Sample Interval Retained Sample Type	th 1st H <sub>2</sub> O (ft): N/A Date / Time: N/A th H <sub>2</sub> O After Drilling (ft): N/A Date / Time: N/A th H <sub>2</sub> O After Drilling (ft): N/A Date / Time: N/A th H <sub>2</sub> O After Drilling (ft): N/A Date / Time: N/A th H <sub>2</sub> O After Drilling (ft): N/A Date / Time: N/A th H <sub>2</sub> O After Drilling (ft): N/A Date / Time: N/A th H <sub>2</sub> O After Drilling (ft): N/A Date / Time: N/A th H <sub>2</sub> O After Drilling (ft): N/A Date / Time: N/A th H <sub>2</sub> O After Drilling (ft): N/A th H <sub>2</sub> O After Dr	·				Coarse Sand	Med. Sand	Fine Sand							
	Drill Finish Date: 02-02-2010 Finish Time: 12:24 Drilling (htt): N/A Date / Time: N/A Drill Ripotenth 1st H <sub>2</sub> O (ft): N/A Date / Time: N/A Drill Ripotenth H <sub>2</sub> O After Drilling (ht): N/A Date / Time: N/A Driller's Comments: Flat area, some dried vegetation at surface Samplers: Macrocore, discrete samples retained in 6-inch stainless steel to the polytope of the pol		ontains trace gravel-size sandstone fragments, mical becomes very dark brown (10YR 2/2)  becomes wet  andstone, light yellowish brown (10YR 6/4), slightly eldspar, and mica [Chatsworth Formation] otal Depth = 3.5 ft; terminated due to refusal on become soil samples S001 at 12:22 and S002 at 12	weathered, conta		_		40 40	40							
		A-    Total Depth = 3.5 ft; terminated due to refusal on bedrock.   Collected soil samples S001 at 12:22 and S002 at 12:24.   Backfilled with soil cuttings.   S-    6-    -														

	MW	/H						Boring ID: LFBS0263					
Borehole	Diam.	(in.):	3		То	tal Dep	th (ft): 0	.5 Project: SSFL - ISRA Data Gap Sampling 2010 (Outfall 009 Area)					_
Northing			1251.0				t): <b>2680</b>						
Orill Start							e: <b>12:2</b>		nasi	n, P	G.		
Orill Finis							ne: <b>12:3</b>		N/A				
Depth 1st				N/A			ne: N/A	Drill Rig Type/Method: Hand Auger					_
Depth H <sub>2</sub>							ne: N/A	Driller's Name: M. Hoehn	<b>T</b> :		1/4		
Commen		assy si nch sta					age	Well Comp. Date: N/A Completion Soil Backfill Date: 02-02-2010 Backfill Time			I/A 2:35		_
Samplers	5: <b>6-</b> 11	nen sta	uniess	Stee	ei sieev	ve		Soil Backfill Date: 02-02-2010   Backfill Time			<u>2:35</u> % of		— iI
Sample Interval Retained Sample Type					_	ත	USCS Soil Classification				,,,,,		Ē
Sample Interv Retained Sample Type	2		Ê	Water Level	Depth (feet)	Graphic Log	oil	Description		Coarse Sand	Med. Sand	p	١.
Sample II Retained Sample T	Recovery (%)	Blow Count/6"	PID (ppm)	7	h.	) hic	S S sifi	Description	<u>ē</u>	es.	Sa.	Fine Sand	Cil+/Clay
am eta am	) (%	0 E	<u> </u>	/ate	ept	rap	SC		Gravel	oar	led.	ine	171
n ∝ v	ಜಲ	<b>m</b> O	Δ.	>	_0−								
s							SM	Silty Sand, dark brown (7.5YR 3/2), loose, moist, fine angular to rounded sandstone gravel to 1/4 inch dia., contains rootlets [Native]	10	10	10	30	4
					_			Sandstone, weathered [Chatsworth Formation]					F
								Total Depth = 0.5 ft; terminated due to refusal on bedrock.					
					1-			Collected soil sample S001 at 12:30.					
					•			·					
								Backfilled with soil cuttings.					
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Boreh	ole	Diam	(in )· '	3		To	tal Den	th (ft): <b>2</b>	2.0	Boring ID: LFBS Project: SSFL - ISR	A Data Gap Sampli	ng 2010 (Outfa	all 009 Area)					_
					6					Job Number: 1008208			F-2 (Southerr	Dra	inan	۵)		_
		Inish Date: 02-04-2010 Finish Time: 10:45  1st H <sub>2</sub> O (ft): N/A Date / Time: N/A  H <sub>2</sub> O After Drilling (ft): N/A Date / Time: N/A  Inents: Native soil and vegetation at surface  Inish Date: 02-04-2010 Finish Time: 10:45  Inish Date: 10:45  Inish Time: N/A  Inish T		Logged By: S. Aichi			By: V. Vath					_						
				Drilling Contractor: B.			umentation:		ш, г	.G.								
						Fleid IIISti	umentation.	עוץ				_						
	Start Date: 02-04-2010 Start Time: 10:35 Finish Date: 02-04-2010 Finish Time: 10:45 h 1st H <sub>2</sub> O (ft): N/A Date / Time: N/A ments: Native soil and vegetation at surface plers: 6-inch stainless steel sleeve  Soil Cappers: 6-inch stainless steel sleeve		Drill Rig Type/Method:								_							
										Driller's Name: M. Ho								
								ace			Well Comp. Date:		Completion			1/A		
	lers	6-in	ch sta	inless	stee	el sleev	ve				Soil Backfill Date:	02-04-2010	Backfill Tim			0:45		_
Sample Interval Retained	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification		1	Description			Gravel	Coarse Sand	Med. Sand	Fine Sand	
		Recovery (%) (%) (%) (%) (%) (%) (%) (%) (%) (%)							Silty Sand, sandstone f	dark brown (10YR 3/3), fragments, trace clay, m	loose, moist, contai icaceous [Native]	ns trace fine gr	avel-size	tr			60	4
						2-	15[4]5[415		∖ Sandstone,	yellowish brown (10YR	5/6), weathered, fri	able						ŧ
	ments: Native soil and vegetation at surface plers: 6-inch stainless steel sleeve  Samble Location  (%) (%) (%) (%) (%) (%) (%) (%) (%) (%	\[Chatsworth	n Formation]															
		1— 1— 2— 3— 4— 5—		Total Depth	n = 2.0 ft; terminated due	to refusal on bedro	ock.											
		SE: 6-inch stainless steel sleeve  Recovery (%) (%) (%) (%) (%) (%) (%) (%) (%) (%)	Collected so	oil sample S001 at 10:3	7													
	th 1st H <sub>2</sub> O (ft): N/A Date / Time: N/A th H <sub>2</sub> O After Drilling (ft): N/A Date / Time: N/A ments: Native soil and vegetation at surface opplers: 6-inch stainless steel sleeve    Samble   Connut   Connu	Conceica se	on sample ooo r at 10.5															
		Backfilled w	vith soil cuttings.															
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		1— 2 SM Si se																
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		3— B  4—  5—																
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			2   Sandst   Chatsy   Total D															
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	MW		_						Boring ID: LFB\$								_
Borehole							th (ft): 1			A Data Gap Sampli							_
lorthing	(ft):	1794	260.4	2	Ea	asting (f	t): <b>2680</b>		Job Number: 1008208		Site: A1L	.F-2 (Southern	Dra	inag	e)		_
rill Star	t Date:	02-0	4-2010	0	St	art Time	e: <b>10:4</b> 8	8	Logged By: S. Aichr	ner	Reviewed	By: V. Vatha	nasi	in, P	.G.		
rill Fini	sh Date	: 02-0	4-2010	0	Fit	nish Tin	ne: <b>11:0</b> 4	4	Drilling Contractor: B.	L. Hall	Field Inst	umentation: <b>F</b>	PID				
epth 1s	st H <sub>2</sub> O (	ft):		N/A	Da	ate / Tin	ne: N/A		Drill Rig Type/Method:								
epth H	O After	Drillin	g (ft): <b>N</b>	N/A	Da	ate / Tin	ne: N/A		Driller's Name: M. Ho	ehn		ı					
Commer	nts: Nat	tive so	il and	vege	etation	at surf	ace			Well Comp. Date:	N/A	Completion	Time	e: <b>N</b>	N/A		
Sampler	s: <b>6-ir</b>	nch sta	inless	stee	el slee	ve				Soil Backfill Date:	02-04-2010	Backfill Time			1:04		
Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification			Description			Gravel	Coarse Sand	Med. Sand	Fine Sand	
S			0.0		1-		SM	sandstone f	dark brown (10YR 3/3), ragments, trace clay, m	icaceous [Native]		ravel-size	tr			60	
		0.0 SM SS S	\[Chatsworth	Formation] = 1.0 ft; terminated due													
					-	1		Collected so	oil sample S001 at 10:5	4							
					2-	1		Backfilled w	ith soil cuttings.								
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Porobol - D	/WH			т	tal Day	th (#\\. ^	0	Boring ID: LFBS Project: SSFL - ISR	A Data Gap Sampli	na 2040 (O.:46	all 000 Area'					
Borehole D			45			th (ft): 3			•	- '	•		•			
Northing (ft		794242				): 2680		Job Number: 1008208			_F-2 (Southern					
Drill Start D					art Time			Logged By: S. Aichr		I	By: V. Vatha		ın, P	.G.		
Orill Finish		2-04-20				ne: 11:1	5	Drilling Contractor: B.I		Field Inst	rumentation: I	PID				
Depth 1st F			N/A			e: N/A		Drill Rig Type/Method:								
Depth H <sub>2</sub> O						e: N/A		Driller's Name: M. Ho								
Comments						ace			Well Comp. Date:	N/A	Completion	Time		N/A		
Samplers:	6-inch	stainle	ss ste	el sleev	ve				Soil Backfill Date:	02-04-2010	Backfill Time			11:15		
<u> </u>						_								% of	f So	oil
Sample Interval Retained Sample Type	Recovery (%) Blow	Count/6"	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification			Description			Gravel	Coarse Sand	Med. Sand	Fine Sand	
s		0.4		1— 1— 2— 3— 4— 5— 6— 7— 8— 9—		SM	Sandstone, Total Depth Collected s	dark brown (10YR 3/3), fragments, trace clay, m specifically and service states are serviced as a specific state of the service states are serviced as a specific state of the service states are serviced as a specific state of the service states are serviced as a specific state of the service states are serviced as a serviced as a serviced as a service state of the servi	5/6), weathered [Cheto to refusal on bedro	natsworth Forn		tr			60	

Porch	_	MW Diam		,			tal Dan	th (ft\: ^		Boring ID: <b>LFBS0267</b> Project: SSFL - ISRA Data Gap Samp	ling 2010 (O46	all 000 Area					_
					4								Dro	inaa	۵۱		_
	orthing (ft): 1794270.81 Easting (ft): 267951.41 Job Number: 1008208 Site: A1LF-2 (Souther rill Start Date: 02-04-2010 Start Time: 08:20 Logged By: S. Aichner Reviewed By: V. Vath rill Finish Date: 02-04-2010 Finish Time: 08:35 Drilling Contractor: B.L. Hall Field Instrumentation: epth 1st H <sub>2</sub> O (ft): N/A Date / Time: N/A Drill Rig Type/Method: Hand Auger epth H <sub>2</sub> O After Drilling (ft): N/A Date / Time: N/A Driller's Name: M. Hoehn																
Drill Finish Date: 02-04-2010 Finish Time: 08:35 Drilling Contractor: B.L. Hall  Depth 1st H <sub>2</sub> O (ft): N/A Date / Time: N/A Drill Rig Type/Method: Hand Auger  Depth H <sub>2</sub> O After Drilling (ft): N/A Date / Time: N/A Driller's Name: M. Hoehn													ın, P	.G.			
Depth 1st H <sub>2</sub> O (ft): N/A Date / Time: N/A Drill Rig Type/Method: Hand Auger  Depth H <sub>2</sub> O After Drilling (ft): N/A Date / Time: N/A Driller's Name: M. Hoehn  Comments: Native soil and vegetation at surface Well Comp. Date: N/A										umentation: I	עוץ				_		
Depth H <sub>2</sub> O After Drilling (ft): N/A Date / Time: N/A Driller's Name: M. Hoehn  Comments: Native soil and vegetation at surface Well Comp. Date: N/A Completion To Samplers: 6-inch stainless steel sleeve Soil Backfill Date: 02-04-2010 Backfill Time														_			
											. N/A	Completion	Time		N/A		
								ace							N/A )8:35		
	ners	. 6-11	ich Sta	imess	Stee	ei Siee	ve			Soil Backlill Date	. 02-04-2010	Dackilli Tiffi			% of		
Sample Interval Retained	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification		Description			Gravel	Sand	Med. Sand	Fine Sand	
SM Silty Sand, dark bri sandstone fragmer								SM	Silty Sand, of sandstone fi	dark brown (10YR 3/3), loose, moist, conta ragments, micaceous [Native]	ains trace fine g	ravel-size	tr			60	) 4
	Sand								Sandetone	yellowish brown (10YR 5/6), weathered [C	hateworth Form	nation] /					+
						1-				= 0.8 ft; terminated due to refusal on bedi							
									· ·	,							
							]		Collected so	oil sample S001 at 08:30.							
						_			Backfilled w	ith soil cuttings.							
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Borehole	Diam	(in )· '	3		То	tal Den	th (ft): <b>4</b>		Boring ID: LFBS Project: SSFL - ISR	A Data Gap Sampli	ing 2010 (Outfo	II 009 Δraa\					
Northing			1275.3	2					•				Dra	inaa	٥)		
Orill Star																	
								-		III, P	.G.		-				
Orill Finis											Field Instri	imentation:	עוץ				_
Depth 1s				N/A									_				
Depth H <sub>2</sub>						tet / Time: N/A Driller's Name: M. Hoehn at surface Well Comp. Date: N/A Cor ve Soil Backfill Date: 02-04-2010 Back											
							ace					Completion			N/A		
Samplers	s: <b>6-in</b>	ch sta	inless	stee	l sleev	ve				Soil Backfill Date:	02-04-2010	Backfill Tim			9:15		-
Sample Interval Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification		C	Description			Gravel	Coarse Sand	Med. Sand	Fine Sand	
s			0.0		1— 2— 3— 4—		SM	Clayey Sand fragments, r	very dark grayish brown angular sandstone fragr d, dark yellowish brown micaceous [Native] = 4.5 ft; terminated due second boring to collect	nents, micaceous [l	nce gravel-size s	sandstone	tr			70	4
					5— 6— 7— 8— 9—			Collected so in step-out b	oil sample S001 at 08:40 poring at 09:10.  oth borings with soil cut	). Collected soil sa		3.5-4.0 ft					

Borehole Dia	m (in \	3		Tota	Il Depth (ft):	5.3	Boring ID: LFBS Project: SSFL - ISR	A Data Gap Sampli	na 2010 (Outfo	II 009 Area)						
Northing (ft):		3 4280.38	,		ting (ft): 267		Job Number: 1008208	•		F-2 (Southern	Dra	inaa	۰,			
Orill Start Da					·											
Orill Finish D																
Depth 1st H <sub>2</sub>			I/A			Mark										
Depth H <sub>2</sub> O A						1	Driller's Name: M. Ho			_						
								•		Completion	Time					
Samplers: (	6-inch sta	ainless	steel	sleeve	)	1		Soil Backfill Date:	02-04-2010	Backfill Time						
Sample Interval Retained Sample Type Recovery	(%) Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log USCS Soil Classification		C	Description			Gravel	Coarse Sand	Med. Sand	Fine Sand		
s		0.0		1— 2— 3— 4—	SM	angular san	dark brown (10YR 3/3), idstone gravel, micaceor	us [Native]	ns trace fine gr	avel-size	tr			60		
				5—————————————————————————————————————		\[Chatsworth   Total Depth   Collected so	yellowish brown (10YR n Formation] n = 5.3 ft; terminated due oil samples S001 at 09:1 vith soil cuttings.	to refusal on bedro	ock.							

	_	MW		•			4-15	u- /60 -		Boring ID: LFBS0270	- 0	0040 (5. /5.						
											o Samplii			_				
	Orill Finish Date:     02-04-2010     Finish Time:     10:05     Drilling Contractor:     B.L. Hall     Field Instrumentation:       Depth 1st H <sub>2</sub> O (ft):     N/A     Date / Time:     N/A     Drill Rig Type/Method:     Hand Auger       Depth H <sub>2</sub> O After Drilling (ft):     N/A     Date / Time:     N/A     Driller's Name:     M. Hoehn																	
	rill Start Date: 02-04-2010 Start Time: 09:50 Logged By: S. Aichner Reviewed By: V. Vathat rill Finish Date: 02-04-2010 Finish Time: 10:05 Drilling Contractor: B.L. Hall Field Instrumentation: Finish Time: N/A Date / Time: N/A Drill Rig Type/Method: Hand Auger  Driller's Name: M. Hoehn  Driller's Name: M. Hoehn  Driller's Name: N/A Completion											in, P	.G.					
											PID							
	epth H <sub>2</sub> O After Drilling (ft): N/A Date / Time: N/A Driller's Name: M. Hoehn omments: Native soil and vegetation at surface Well Comp. Date: N/A Completion T amplers: 6-inch stainless steel sleeve Soil Backfill Date: 02-04-2010 Backfill Time																	
								ace								N/A		
	iers	6-in	ich sta	ainiess	sste	ei siee	ve			Soil Backi	fill Date:	02-04-2010	Backfill Time			10:05 % of		::
Sample Interval Retained	Sample Type Sample Type Sample Type Sample Type Sample Type Count(6", (%) Soil Classification SM Silty Sand, very dark grayish brown (10YR 3/2), loose, moist, trace clay, micaceous [Native]										Gravel	Coarse Sand	Med. Sand	Fine Sand	Sil+/Clay			
	SM Silty Sand, very dark grayish brown (10YR 3/2), loose, moist, trace clay,													60	40			
													/					
						-			Collected so	oil sample S001 at 09:58.								
									Backfilled w	rith soil cuttings.								
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<u> Ψ</u>		MW				1_				Boring ID: LFBS0271		00/0/5						_
											ap Sampli							_
	Orill Finish Date:     02-04-2010     Finish Time:     10:25     Drilling Contractor:     B.L. Hall     Field Instrumentation:       Depth 1st H <sub>2</sub> O (ft):     N/A     Date / Time:     N/A     Drill Rig Type/Method:     Hand Auger       Depth H <sub>2</sub> O After Drilling (ft):     N/A     Date / Time:     N/A     Driller's Name:     M. Hoehn																	
	rill Start Date: 02-04-2010 Start Time: 10:17 Logged By: S. Aichner Reviewed By: V. Vathar rill Finish Date: 02-04-2010 Finish Time: 10:25 Drilling Contractor: B.L. Hall Field Instrumentation: Pepth 1st H <sub>2</sub> O (ft): N/A Date / Time: N/A Drill Rig Type/Method: Hand Auger  Poriller's Name: M. Hoehn  Omments: Native soil and vegetation at surface amplers: 6-inch stainless steel sleeve Soil Backfill Date: 02-04-2010 Backfill Time										nasi	in, P	G.					
Drill Fi											PID							
Depth																		
Depth	Depth H <sub>2</sub> O After Drilling (ft): N/A Date / Time: N/A Driller's Name: M. Hoehn  Comments: Native soil and vegetation at surface  Soil Backfill Date: 02-04-2010  Backfill Time																	
Comm	ent	s: Nat	ive so	il and	vege	etation	at surf	ace		Well Co	mp. Date:	N/A	Completion	Time	: N	I/A		
	lers:	6-in	ch sta	inless	stee	el slee	ve		ı	Soil Bac	ckfill Date:	02-04-2010	Backfill Time			0:25		
Sample Interval Retained	Sample Type  Sample Type  Sample Type  Sample Type  Sample Type  Sample Type  South (feet)  Nater Level Blow  Opeth (feet)  Nater Level Blow  Opeth (feet)  Nater Level Blow  Nater Level Blow  Nater Level Blow  Opeth (feet)  SM Silty Sand, very dark grayish brown (10YR 3/2), loose, moist, trace clay, micaceous [Native]										Gravel	Coarse Sand	Med. Sand	Fine Sand	Silt/Clay			
	SM Silty Sand, very dark grayish brown (10YR 3/2), loose, moist, trace clay,													60	40			
									Total Depth	= 1.0 ft; terminated due to refusa	al on bedro	ck.						
						-			Collected so	oil sample S001 at 10:20.								
									Backfilled w	ith soil cuttings.								
						2-			Dackilled W	iti son cuttings.								
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<b>W</b>	<u>)</u> [\	ЛW	Ή						Boring ID: LFBS0272					_
Boreho	ole [	Diam.	(in.): :					th (ft): C						
Northir	ng (f	t):	1794	275.3	3			t): <b>267</b> 8		Dra	inag	e)		_
			02-0					e: <b>09:3</b>		anasi	in, P	.G.		
			02-0					ne: <b>09:4</b>	·	PID				
Depth					N/A			ne: N/A	Drill Rig Type/Method: Hand Auger					
-	h H <sub>2</sub> O After Drilling (ft): N/A Date / Time: N/A Driller's Name: M. Hoehn  ments: Native soil at surface Well Comp. Date: N/A  plers: 6-inch stainless steel sleeve Soil Backfill Date: 02-03-2010									<b>T</b> :		1/4		
												N/A		
	ers:	6-in	ich Sta	uniess	stee	ei sieev	ve		Soil Backfill Date: <b>02-03-2010</b>   Backfill Time			9:40 % of		il.
<u> </u>	g						ත	o				,,,,		Ť
Sample Interval Retained	⊼	ا ح	=	Œ	eve	eet	ا د	oi cati	Description		Sand	pu	b	١.
Sample In Retained	be	Recovery (%)	Blow Count/6"	PID (ppm)	길	h G	hic	SS	Description	<u>_</u>	Coarse	Med. Sand	Fine Sand	-
am	an	ွေ	low	) □	/ate	ept	rap	SC		Gravel	oar	led.	ine	Cil+/Clary
אַ אַ •	Ö	<u>ಸ</u> ಲ	ВO	Ь	>	Depth (feet)	G			O	Ö	Σ		
	s			0.0				SM	Silty Sand, dark yellowish brown (10YR 4/6), loose, moist, micaceous [Native]				70	3
	<b>—</b>					_			Sandstone, light yellowish brown (10YR 6/4), weathered, friable [Chatsworth Formation]					Ī
	\[Chatsworth Formation] Total Depth = 0.5 ft; terminated due to refusal on bedrock.													
	Collected soil sample S001 at 09:40.													
	- Backfilled with soil cuttings.													
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Rorel	hole	Diam.	(in )· '	3		Ta	ital Don	th (ft): 1	0	Boring ID: LFBS Project: SSFL - ISR	A Data Gap Sampli	na 2010 (Outfo	II NNO Aros)					_
										•	•	•		D==		-1		_
North				1284.4		Date / Time: N/A Drill Rig Type/Method: Hand Auger												
		Date:				Finish Time: 09:55 Drilling Contractor: B.L. Hall Field Instrumentation  Date / Time: N/A Drill Rig Type/Method: Hand Auger									ın, P	G.		
		h Date:					Date / Time: N/A  Date / Time: N/A  Date / Time: N/A  Drill Rig Type/Method: Hand Auger  Driller's Name: M. Hoehn  Well Comp. Date: N/A  Completi											
		H <sub>2</sub> O (f	•		N/A													_
		O After				Date / Time: N/A  Driller's Name: M. Hoehn  Well Comp. Date: N/A  Soil Backfill Date: 02-03-2010  Backfill												
Comi	men	s: Nat	ive so	il at su	urfac	е	Date / Time: N/A  Driller's Name: M. Hoehn  Well Comp. Date: N/A  Soil Backfill Date: 02-03-2010  Backfill Date: Date: N/A  Backfill Date: Date: N/A  Soil Backfill Date: Date: N/A  Soil Backfill Date: Date: N/A  Soil Backfill Date: Date: N/A								e: <b>N</b>	I/A		
	olers	: 6-in	ch sta	inless	stee	el slee										9:55		
Sample Interval Retained	ype (vel ation ation										Sand	Med. Sand ୁଦ୍ର	Fine Sand   6					
≫ Ret	San	% %	Sog	SM Silty Sand, yellowish brown (10YR 5/4), loose, moist, trace clay, micaceous								2001E	Gravel	ပိ	Med	70		
	S			0.0		-	SM Silty Sand, yellowish brown (10YR 5/4), loose, moist, trace clay, micaceous [Native]  Sandstone, brownish yellow (10YR 6/6), weathered [Chatsworth Formation]										70	J
						1-	Total Depth = 1.0 ft; terminated due to refusal on bedrock.											
						=		Total Depth = 1.0 ft; terminated due to refusal on bedrock.  Collected soil sample S001 at 09:50.										
						2-	-	Collected soil sample S001 at 09:50.  Backfilled with soil cuttings.										
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Borok		WW Diam		3			tal Dan	th (ft): 4		Boring ID: <b>LFBS0274</b> Project: SSFL - ISRA Data Gap Sai	mnling 2010 (0:-45	all OOG Area					
			(in.): 3					th (ft): 1					D==	:	-1		_
Northii				1290.9				t): 2678		Job Number: 1008208		.F-2 (Southern					_
	Date / Time: N/A  Date / Time: N/A  Driller's Name: M. Hoehn  Driller's Name: M. Hoehn  M. Hoehn  Driller's Name: Native soil at surface  Well Comp. Date: N/A  Completic												ın, P	.G.			
			(ft): N/A Date / Time: N/A Drill Rig Type/Method: Hand Auger er Drilling (ft): N/A Date / Time: N/A Driller's Name: M. Hoehn ative soil at surface Well Comp. Date: N/A Complete									umentation: 1	עוץ				_
Depth 1st H <sub>2</sub> O (ft): N/A Date / Time: N/A Drill Rig Type/Method: Hand Auger  Depth H <sub>2</sub> O After Drilling (ft): N/A Date / Time: N/A Driller's Name: M. Hoehn  Comments: Native soil at surface  Samplers: 6-inch stainless steel sleeve  Soil Backfill Date: 02-03-2010  Backfill																	
							ate / Tirr	ie: N/A			oto: N/A	Completion	Time		N/A		
															N/A 10:10		
	lers.	0-111	CII Sta	imess	Ste	ei Siee	ve			SOII BACKIIII Di	ate. <b>02-03-2010</b>	Dackilli Tilli			% of		il.
Sample Interval Retained Sample Interval Retained Sample Type Count/6  Nater Level Water Level ODepth (feet) ODepth (feet) SM Silty Sand, dark yellowish brown (10YR 4/4), loose, moist, micaceous [Native]										Gravel	Coarse Sand	Med. Sand	Fine Sand	0:14/010			
SM Silty Sand, dark yellowish brown (10YR 4/4), loose, moist, micaceous [Native]  1—  Sandstone, yellowish brown (10YR 5/4), weathered [Chatsworth Formation]													60	4			
						-	1.31.434.44		\Sandstone,	yellowish brown (10YR 5/4), weathered	I [Chatsworth Form	ation] /					Ħ
									Total Depth	= 1.5 ft; terminated due to refusal on b	edrock.						
						2-			Collected so	oil sample S001 at 10:05.							
						_			Backfilled w	ith soil cuttings.							
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		Diam.			_			th (ft): 1.			A Data Gap Sampling			_				
North				256.0				t): <b>2678</b>		Job Number: 1008208			F-2 (Southern					
		Date:						e: <b>08:1</b> 2		Logged By: S. Aichr		1	By: V. Vatha		in, P	.G.		
		n Date:						ne: <b>08:4</b> 0		Drilling Contractor: B.I		Field Instr	umentation: I	PID				
		H₂O (f			N/A			ne: N/A		Drill Rig Type/Method:	_							
Deptl	1 H <sub>2</sub> C	) After	Drilling	g (ft): <b>I</b>	N/A	Da	ate / Tin	ne: N/A		Driller's Name: M. Ho			1					
Comi	ment	s: Nat	ive so	il at su	urfac	e					Well Comp. Date: N		Completion	Time	: I	N/A		
	olers	6-in	ch sta	inless	stee	el slee	ve				Soil Backfill Date: 02	2-03-2010	Backfill Time			8:40		
<u>م</u>	_							_								% of	So	il
Sample Interval Retained	Sample Type			_	<u>@</u>	£	Graphic Log	USCS Soil Classification							Sand	-	_	
<u>-</u> -	F O	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	C L	Soi			escription				Š	Med. Sand	Fine Sand	}
Sample Ir Retained	ᅙ	Š	ž ≤	d)	9	ţ	phi	SSif			-			Gravel	Coarse	S.	Š	Cil+/Clay
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ທ ແ ××		<b>R</b> 5	шО		>	_0_	0		0.111 0 1		200		Fh 7	0	0	2		
▓▃	S			0.1				SM	Silty Sand, o	dark yellowish brown (10	JYR 4/4), loose, moist,	micaceous	[Native]				70	3
$\otimes$	s			0.1														
						_												
	S																	
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						_			Condot	browniah vallass (40)(2	6/9) woothers -1 101- 1	orth	otion?					L
								T		brownish yellow (10YR = 1.5 ft; terminated due			ationj					
									rotal Depth	- 1.5 it, terminated due	to retusal on Dedrock							
						2-	1		Collected so	oil samples S001 and S0	001SP at 08:30.							
									Backfilled w	ith soil cuttings.								
						_			Dackilled W	itii soii cuttiigs.								
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Dorat-	_	MW Diam		•		T-	tal Dec	th (#\). •		Boring ID: LFBS0277	a 2040 (O45	-II 000 Ar1					
			(in.): 3					th (ft): 0		Project: SSFL - ISRA Data Gap Samplin			_				_
North				1256.8				t): <b>267</b> 8		Job Number: 1008208		.F-2 (Southern					
		Date:		3-2010				e: 09:1		Logged By: S. Aichner		By: V. Vatha		in, P	.G.		
			: 02-0					ne: <b>09:1</b>		Drilling Contractor: B.L. Hall	Field Instr	umentation:	PID				
		H <sub>2</sub> O (1			N/A			ne: N/A		Drill Rig Type/Method: Hand Auger							_
			Drillin			•	ate / Tin	ne: N/A		Driller's Name: M. Hoehn		10					
			ive so							Well Comp. Date:		Completion			N/A		_
	lers	: 6-ır	ich sta	ainless	ste	el slee	ve		1	Soil Backfill Date:	02-03-2010	Backfill Time			9:15		
Sample Interval Retained	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification		Description			Gravel	Coarse Sand	Med. Sand	Fine Sand	Cilt/Clox
	s			0.1		·		SM	Silty Sand, y	rellowish brown (10YR 5/6), loose, moist, mid	caceous [Nati	ve]				70	3
						-	<u>icheliche</u>		\Sandstone,    Chatsworth	brownish yellow (10YR 6/6), weathered, frial Formation]	ole						H
		\[Cha								= 0.5 ft; terminated due to refusal on bedroo	k.						
						1			Collected so	il sample S001 at 09:12.							
						-			Backfilled wi	ith soil cuttings.							
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Borehole	Diam	(in )· '	2-1/4		То	tal Den	th (ft): 4	Boring ID: <b>LFBS0280</b> Project: SSFL - ISRA Data Gap Sampling 2010 (Outfall 009 Area)					
			2-1/4 1240.4(	<u> </u>			t): <b>2678</b>		n Dra	inac	۱۵)		
Northing							e: <b>09:0</b>						
<u>Orill Start</u> Orill Finis										III, P	.G.		
							ne: <b>09:1</b>	<b>5</b>	PID				
Depth 1st				N/A			ne: N/A	Drill Rig Type/Method: Geoprobe/Direct Push					_
Depth H <sub>2</sub> 0					-		ne: N/A	Driller's Name: E. Herrera / D. Hawkins	T:		1/A		
								2 in.), removed prior to drilling Well Comp. Date: N/A Completion			N/A		
Samplers	: Mac	crocor	e, disc	crete	samp	le retai	ned in 6	nch stainless steel sleeve Soil Backfill Date: 02-03-2010 Backfill Tir			09:20		
Sample Interval Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description	Gravel	Coarse Sand	Med. Sand	Fine Sand	Cilt/Clox
s			0.0		0- 1- 2-		SP	Poorly Graded Sand, dark brown (10YR 3/3), medium dense, moist, contains trace gravel-size sandstone fragments, mica [Native]	tr	10	45	40	5
					3-		SC	Clayey Sand, dark grayish brown (10YR 4/2), dense, moist, medium plasticity clay, mica present [Native]	tr	5	25	30	4
፠								significant decrease in clay content					
⊠					4-			Sandstone, pale yellow (2.5Y 7/4), moderately weathered, slightly friable,	7				Ħ
								contains quartz, feldspar, and mica [Chatsworth Formation]					
					_			Total Depth = 4.0 ft; terminated due to refusal on bedrock.					
								Collected soil sample S001 at 09:09.					
					5-			Backfilled with soil cuttings.					
					6-								
					7-								
					8-								
					9-								
					10-								

	Diam.	(in.): :	2-1/4		Tot	tal Den	th (ft): 3	Boring ID: LFBS0281  Project: SSFL - ISRA Data Gap Sampling 2010 (Outfall 009 Are	a)				
Northing			  255.04	4			t): <b>267</b> 8			ainac	ie)		
Orill Start							e: 13:1	Logged By: A. Ruotolo Reviewed By: V. V.					
										ы, г	.G.		
Orill Finis							ne: 13:2	Drilling Contractor: Strongarm Field Instrumentation	II. PID				
Depth 1s		_		N/A			ne: N/A	Drill Rig Type/Method: Geoprobe/Direct Push					
Depth H <sub>2</sub>							ne: N/A	Driller's Name: E. Herrera / D. Hawkins					
								,, ,	tion Tim		N/A		
Samplers	: Ma	crocor	e, disc	crete s	sampl	les reta	ined in	nch stainless steel sleeve   Soil Backfill Date: 02-02-2010   Backfill			13:31		
Sample Interval Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description	Gravel	Sand	Med. Sand	Fine Sand	
S San	Rec (%)	Blo Cou	0.0	Wa Wa	3- 1- 2- 5- 6- 8-	Gra	MS Clar	Well Graded Sand, yellowish brown (10YR 5/6), medium dense, moist, mica present [Native]  Sandstone, brownish yellow (10YR 6/6), highly weathered, friable, contains quartz, feldspar, and mica [Chatsworth Formation]  Total Depth = 3.5 ft; terminated due to refusal on bedrock.  Collected soil samples S001 at 13:23 and S002 at 13:24.  Backfilled with soil cuttings.	Gra	3 20 20 E		35 Ein	

orehol	MV le Diam	i. (in.):	2-1/4		Total	I Depth (ft):	5.5	Boring ID:  Project: SS		A Data Gap Samp	ling 2010 (Outfa	II 009 Area)					_
orthing			 4246.8	2		ing (ft): 26		Job Number:		Total Sup Gamp		F-2 (Souther	n Dra	inad	e)		_
		: 02-0				Time: 08		Logged By:		olo		By: V. Vath					
ill Fin	ish Dat	e: <b>02-0</b>	3-2010	)	Finis	h Time: 08	3:13	Drilling Contra	ctor: Str	ongarm		umentation:					
epth 1	st H <sub>2</sub> O	(ft):	ı	N/A	Date	/ Time: <b>N</b> /	Ά	Drill Rig Type/	Method:	Geoprobe/Direct	Push						
epth F	H <sub>2</sub> O Afte	er Drillin	g (ft): <b>I</b>	N/A	Date	/ Time: <b>N</b> /	Ά	Driller's Name:	: E. Her	rera / D. Hawkins		T					
omme								away prior to drillin		Well Comp. Date	: N/A	Completion	Time	: <b>N</b>	I/A		_
ample	rs: M	acroco	re, disc	crete s	amples	s retained i	n 6-inch st	ainless steel sleeve		Soil Backfill Date:	02-03-2010	Backfill Tim			8:25		_
Retained	Sample Type Recovery	9/	(mdi	Water Level	(feet)	Graphic Log USCS Soil Classification			D	escription				e Sand			
Retained	Recovery (%)	Blow Count/6"	PID (ppm)	Water	Depth (feet)					2/2 //0			Gravel	Coarse	Med. Sand	Fine Sand	
S	6		0.0		1-	SM	Silty S [Native	and, dark yellowish t	brown (10	YR 4/4), medium	dense, moist, m	ica present		10	30	40	
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA					2- 3-	SM	Silty S fine to	sand with Gravel, dar coarse sandstone g	k yellowis ravel to 1	h brown (10YR 4/ inch dia., mica pr	4), medium dens esent [Native]	se, moist,	30	10	20	20	
S	6		0.0		5—	SP	Poorly [Native	v Graded Sand, brow e]	nish yello	w (10YR 6/6), den	ise, dry, mica pre	esent		10	45	40	_
						200	Sands	stone, yellow (10YR 7 ns quartz, feldspar, a	7/6), mode and mica	erately weathered, [Chatsworth Form	moderately frial	ole,					=
					6-			Depth = 5.5 ft; termin									
					-		Collec	ted soil samples S00	01 at 08:0	7 and S002 at 08:	13.						
							Backfi	illed with soil cuttings	:								
							2001	ou man oon outungo									
					7-												
					′												
					1												
					8-												
					+												
					9-												
					4												
	1	1	1	1 1	10		1						1	1	i		

orah	امام	Diam	(in.): ;	2		Ta	tal Don	th (ft): 1	5	Project: SSFL - ISF	RA Data Gap Sampl	ing 2010 /Outto	II OOG Araa'					
					1					T .	•		•	n D	inco	٥)		_
lorthi				1283.8°				t): <b>267</b> 8		Job Number: 100820			F-2 (Souther					
			02-0					e: 13:0		Logged By: S. Aich			By: V. Vath		ın, P	.G.		—
			02-0					ne: <b>13:3</b>		Drilling Contractor: B		Field Instr	umentation:	PID				—
		H <sub>2</sub> O (f			N/A			ne: <b>N/A</b>		Drill Rig Type/Method:								—
			Drillin			-		ne: N/A		Driller's Name: M. He								
omn	ent	s: <b>Sar</b>	ıdy fill	and b	lack	debris	at sur	face			Well Comp. Date:		Completion	Time		N/A		
	lers:	6-in	ch sta	inless	stee	l sleev	ve		I		Soil Backfill Date:	02-03-2010	Backfill Tim			3:30		
Sample Interval Retained	Retained Sample Type Recovery (%) Blow Count/6"  Water Level					Depth (feet)	Graphic Log	USCS Soil Classification			Description			Gravel	Sand	Med. Sand	Fine Sand	
	0-				0	SP	Poorly Grad "beach san	ded Sand, light brownis d" (fine to medium grair	h gray (10YR 6/2), lons), contains burnt b	oose, dry, resen lack debris [Fill]	nbles	0	8	2	<u> </u>	0		
	SM						SM	Silty Sand,	yellowish brown (10YR	5/4), loose, moist, n	nicaceous [Nativ	ve]				60	4	
XX	2-							, brownish yellow (10YF n = 1.5 ft; terminated du			ation]/							
Total Depth = 1.5 ft; terminated due to refusal on bedrock.  Collected soil samples S001 (grab sample that includes pieces of black deb at 13:18 and S002 at 13:23.					k debris)													
	Concotou den dampiet det i (grab dampie triat indiades pietes et black debrie)																	
Backfilled with																		
						-												
						4-												
						5												
						-												
						6-												
						7-												
						8-												
						9												

	Ή .				_	Boring ID: LFBS								
Borehole Diam.				pth (ft): 0			A Data Gap Sampli							_
Northing (ft):	1794309	9.55		(ft): <b>2679</b>		Job Number: 1008208			F-2 (Southern					_
Drill Start Date:			Start Tin	ne: <b>13:3</b>	3	Logged By: S. Aichn	er	Reviewed	By: V. Vatha	anas	in, P	G.		
Drill Finish Date	02-03-20	010	Finish T	me: <b>13:5</b>	1	Drilling Contractor: B.L	Hall	Field Instr	umentation:	PID				_
Depth 1st H <sub>2</sub> O (	t):	N/A	Date / T	me: N/A		Drill Rig Type/Method:	Hand Auger							_
Depth H <sub>2</sub> O After	Drilling (ft	t): <b>N/A</b>	Date / T	me: N/A		Driller's Name: M. Ho	ehn							_
Comments: Nat	ive soil ar	nd veget	tation at su	rface			Well Comp. Date:	N/A	Completion	Time	e: <b>N</b>	I/A		
Samplers: 6-ir	ch stainle	ess stee	l sleeve				Soil Backfill Date:	02-03-2010	Backfill Time			3:51		
Sample Interval Retained Sample Type Recovery (%)	Blow Count/6"	Water Level	Depth (feet) Graphic Log	USCS Soil Classification			escription			Gravel	Coarse Sand	Med. Sand	Fine Sand	
			1— 2— 3— 4— 5— 6— 7— 8—	SM	Sandstone, Total Depth Collected s	brownish yellow (10YR to a = 0.8 ft; terminated due oil sample S001 at 13:43 with soil cuttings.	6/6), weathered [Ch to refusal on bedro	atsworth Form					60	_

	MV		•			tal D -	4b /41\ **	Boring ID: LFBS0285					_
Borehole							oth (ft): <b>C</b>			_			_
Northing			1327.9				t): <b>267</b> 9						
Drill Star			3-2010				e: 13:5			in, P	.G.		
Drill Fini							ne: <b>14:1</b>		PID				_
Depth 1s		_		N/A			ne: N/A	Drill Rig Type/Method: Hand Auger					
Depth H							ne: N/A	Driller's Name: M. Hoehn					
Commer							race	Well Comp. Date: N/A Completio			N/A		
Sampler -	s: <b>6-</b> 11	nch sta	ainless	ste	el slee	ve		Soil Backfill Date: 02-03-2010 Backfill Til			14:10		
Sample Interval Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description	Gravel	Sand	Med. Sand	Fine Sand	0:14/012.1
∭ s			0.4		U		SM	Silty Sand, dark brown (10YR 3/3), loose, moist, micaceous, roots [Native]				60	4
								\Sandstone, yellowish brown (10YR 5/6), weathered [Chatsworth Formation]	+				Ħ
					-	1		Total Depth = 0.3 ft; terminated due to refusal on bedrock.					
					1	-		Collected soil sample S001 at 13:58; several step-outs required to obtain sample volume.					
					_	_		Backfilled with soil cuttings.					
					2-								
					-								
					-								
					3-	_							
					-	-							
					4-	_							
					_	_							
					5-								
					6-								
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					7-	_							
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					8-								
					_								
					9								
					-								

Borehole	Diam	(in.): :	2-1/4		To	tal Den	th (ft): 2	Boring ID: <b>LFBS0286</b> Project: SSFL - ISRA Data Gap Sampling 2010 (Outfall 009 A	ea)					_
Vorthing			1305.6	5			t): <b>267</b> 8		•	rain	าลตะ	<del>5</del> )		_
Orill Star							e: 10:4							
Orill Finis							ne: <b>10:4</b>	99 ;			.,	<u> </u>		
Depth 1s				N/A			ne: <b>N/A</b>	Drill Rig Type/Method: Geoprobe/Direct Push	OII. FII	_				_
														_
Depth H					-		ne: N/A	Driller's Name: E. Herrera / D. Hawkins	ation Ti		_	I/A		_
								· · · · · · · · · · · · · · · · · · ·	etion Ti	me:		I/A		
Samplers -	s: IVIA	crocor	e, aisc	crete	samp	le retail	nea in 6	nch stainless steel sleeve Soil Backfill Date: 02-02-2010 Back	I Time:			0:58		
Sample interval Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description		Gravel	Coarse Sand	Med. Sand	Fine Sand	
S			0.1		1— 2—		SP	Poorly Graded Sand, dark brown (10YR 3/3), medium dense, moist, mica pre [Native]  charred vegetation debris becomes yellowish brown (10YR 5/6)  becomes dark yellowish brown (10YR 4/4), wet	ent		10	45	40	
<b>3</b>					_	15(v15(v1)		Sandstone, brownish yellow (10YR 6/6), highly weathered, friable, contains	$\dashv$					÷
								\quartz, feldspar, and mica [Chatsworth Formation]	/					
					3-			Total Depth = 2.5 ft; terminated due to refusal on bedrock.						
					3			Collected soil sample S001 at 10:49.						
								Collected Soil Sample Cool Lat 10.45.						
					_			Backfilled with soil cuttings.						
					4									
					4									
					_									
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					5									
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					6									
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					8-									
					-	1								
					9-									
					_									
					10-				1	- 1				

conthing (ft): 1794321.92 Easting (ft): 267814.94 Job Number: 1008208 Site: A1LF-2 (Southern Drainage)  rill Start Date: 02-02-2010 Start Time: 12:51 Logged By: A. Ruotolo Reviewed By: V. Vathanasin, P.G.  rill Finish Date: 02-02-2010 Finish Time: 12:56 Drilling Contractor: Strongarm Field Instrumentation: PID  epth 1st H <sub>2</sub> O (ft): N/A Date / Time: N/A Driller's Name: E. Herrera / D. Hawkins  comments: Approx. 2 to 3 ft from rock outcrop, fresh grass at surface Well Comp. Date: N/A Completion Time: N/A  amplers: Macrocore, discrete sample retained in 6-inch stainless steel sleeve Soil Backfill Date: 02-02-2010 Backfill Time: 13:12	Boreho	le r	)iam	(in )· '	2-1/4		То	tal Den	th (ft): 2		oring ID: <b>LFE</b>		ling 2010 (Outfa	II 009 Δrea\					_
mil Siern Date: 0.242-2010   Sent Time: 1.256   Soped By: A Rutotion   Reviewed Sx: V. Valhamanian, P.G.    mil Finish Date: 0.242-2010   Finish Time: 1.256   Drilling Contactor: Strongerm   Field Instrumentation: PID    mil Finish Date: 0.242-2010   Finish Time: 1.256   Drilling Contactor: Strongerm   Field Instrumentation: PID    mil Finish Date: 0.242-2010   Pinish Time: NA   Drilling Time: NA   Dril						2					•	•		-	Dra	inaa	٥)		
mill Friends Date: 0.240-23010  Finals Time: 12.586  Diffinition Contractor: Strongerm  Final May Diffinity Time: NA  Date of Time: NA  Da																			_
geth staff kJ. (7)(*). NA. Date / Time: NA. Origines / Name; E. Herrare / D. Hawkins  miments. Approx. 2 to 3 if from rock outbrop, fresh grass at surface.  Well Comp. Date: NA. Completion Time: NA. amples: Macrocore, discrete sample retained in 6-inch stainless steel sleeve.  Soil Backfill Date: 02-02-2010  Backfill Time: NA. Origines / Name; E. Herrare / D. Hawkins  miments. Approx. 2 to 3 if from rock outbrop, fresh grass at surface.  Well Comp. Date: NA. Completion Time: NA. Origines / Name; E. Herrare / D. Hawkins  per gradient of the completion of the comple											••			-		ın, P	.G.		
Septimental After Criting (fit: NA)    Continue   Composition   Composit														umentation: i	PID				_
### Complete: Macrocore, discrete sample retained in E-inch stainless steel sleeve  ### Soil Back#II Date: 02-02-2010  ### Description    Description   Desc													Pusn						_
### Acroscore, discrete sample retained in F-inch stainless steel sleeve  ### Acroscore, discrete sample retained in F-inch stainless steel sleeve  ### Description    Description	-													1					
Part										_				•					
Boundary of the company of the compa		ers:	Mag	crocor	e, disc	crete	samp	e retaii	ned in 6	inch stainless st	teel sleeve	Soil Backfill Date:	02-02-2010	Backfill Time					<del></del>
SP Poorty Ciraded Sand, dark brown (10YR 3/3), medium dense, moist, mica present tr 10 45 40    1	Sample Interval	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log				·			Gravel	Coarse Sand	Med. Sand	Fine Sand	
Quartz, feldspar, and mica [Chatsworth Formation]   Total Depth = 2.5 ff; terminated due to refusal on bedrock.   Collected soil sample S001 at 12:56.   Backfilled with soil cuttings.		S			0.0		1-		SP	[Native]  √ becomes we	et			nica present	tr	10	45	40	
Quartz, feldspar, and mica [Chatsworth Formation]   Total Depth = 2.5 ff; terminated due to refusal on bedrock.   Collected soil sample S001 at 12:56.   Backfilled with soil cuttings.							_			→ Sandstone. bro	ownish vellow (10Y	R 6/6). highly weathe	ered. friable. con	itains /					ļ
Collected soil sample S001 at 12:56.  Backfilled with soil cuttings.										\quartz, feldspa	r, and mica [Chats	worth Formation]							
Collected soil sample S001 at 12:56.  Backfilled with soil cuttings.							3_			Total Depth = 2	2.5 ft; terminated d	ue to refusal on bedr	ock.						
Backfilled with soil cuttings.  5-  6-  7-  9-							3			Collected soil s	sample S001 at 12	56							
5- 6- 7- 8-												00.							
5- 6- 7- 8- 9-							_			Backfilled with	soil cuttings.								
5- 6- 7- 8- 9-																			
5- 6- 7- 8- 9-							4												
6- 7- 8- 9-							-												
6- 7- 8- 9-																			
6- 7- 8- 9-							_												
6- 7- 8- 9-																			
6- 7- 8- 9-							5-												
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Borehole	Diam	(in )· :	2-1/4		Total	Depth (ft): 3	Boring ID: L	ISRA Data Gap Samp	ling 2010 (Outfa	II 009 Area)					_
lorthing			312.89	<b></b>		g (ft): <b>267</b>				F-2 (Southern	Dra	inad	e)		_
orill Start						Гіте: <b>10:</b> 1	Logged By: A			By: V. Vatha					
rill Finis						Time: 10:2	Drilling Contracto			umentation: I		111, 1	. О.		-
									<u> </u>	umentation. I	טו				
Depth 1st H <sub>2</sub> O (ft): N/A Date / Time: N/A Drill Rig Type/Method: Go															_
Depth H <sub>2</sub> O After Drilling (ft): N/A Date / Time: N/A Driller's Name: E. Herrera A Comments: On relatively flat surface sparsely covered with fresh grass										Completion	Time		l/A		
								Well Comp. Date							
amplers	S: IVIA	crocor	e, aisc	rete s	amples	retained in	nch stainless steel sleeve	Soil Backfill Date	: 02-02-2010	Backfill Time		Est.	0:41		
Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)			Description			Gravel	Coarse Sand	Med. Sand	Fine Sand	0:14/0
s s	Re (%)		0.0	M	1— 2— 3— 4— 5—	SM SP	Silty Sand, dark brown (10YF present [Native]  Poorly Graded Sand, yellowis abundant mica present [Native]  Sandstone, brownish yellow quartz, feldspar, and mica, in Total Depth = 3.0 ft; terminat Collected soil samples S001  Backfilled with soil cuttings.	th brown (10YR 5/6), me e] 10YR 6/6), highly weath on oxidation [Chatsworth ed due to refusal on bed	dium dense, moi ered, friable, con Formation] rock.	st,	0	10	30	40	20
					6- 7- 8- 9-										

_ <b></b>		MW Diam		2 4 1 4			4-1 5	41- /ft\ -	Boring ID: LFBS0289					
		Diam.						th (ft): 2						—
North				1333.2				t): <b>267</b> 8						
		Date:						e: <b>09:4</b>			n, P	G.		
		n Date:						ne: <b>09:5</b>		ID				
		H <sub>2</sub> O (f			N/A			ne: N/A	Drill Rig Type/Method: Geoprobe/Direct Push					_
		) After						ne: N/A	Driller's Name: E. Herrera / D. Hawkins					
Comr	nent						urface		Well Comp. Date: N/A Completion T	ime		I/A		
Samp	lers:	Mag	rocor	e, disc	rete	samp	le retai	ned in 6	nch stainless steel sleeve Soil Backfill Date: 02-02-2010 Backfill Time			0:10		
<u>Ka</u>								_		E		% of	So	<u>il</u>
Sample Interval Retained	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description (40)(D00)	Gravel	Coarse Sand	Med. Sand	Fine Sand	Silt/Clay
	S			0.0		1-		SM	Silty Sand, dark brown (10YR 3/3), medium dense, moist, contains roots and rootlets in first few inches, mica present [Native]  Well Graded Sand, yellowish brown (10YR 5/6), medium dense, moist, abundant	tr	20	30	35	20
						-			mica present [Native]					
Sandstone, yellowish brown (10YR 5/6), highly weathered, friable, contains quartz, feldspar, and mica, iron oxidation [Chatsworth Formation]  Total Depth = 2.0 ft; terminated due to refusal on bedrock.														
Total Depth = 2.0 ft; terminated due to refusal on bedrock.  Collected soil sample S001 at 09:54.														
						3-			Backfilled with soil cuttings.					
						4-								
						5-								
						6-								
						7-								
						8-								
						9-								
						10-								

orehole Diam.	(in )· <b>2.1/</b>		Total Dep	th (ft\· 2	0	Boring ID: LFBS Project: SSFL - ISR	A Data Gap Sampli	na 2010 (Outfo	II 009 Area)					
orthing (ft):	1794326.8	22	Easting (f			Job Number: 1008208	•	-	F-2 (Southern	Dra	inaa	۰,		
rill Start Date:			Start Time			Logged By: A. Ruote			By: V. Vatha		ın, P	G.		
rill Finish Date			Finish Tin		,	Drilling Contractor: St			umentation: I	עוי				
epth 1st H <sub>2</sub> O (f		N/A	Date / Tin			Drill Rig Type/Method:		usn						_
epth H <sub>2</sub> O After			Date / Tin	ne: N/A		Driller's Name: E. Hei			T					
omments: Fre	_						Well Comp. Date:		Completion			I/A		
	rocore, dis	crete sai	mples reta	ined in 6	3-inch stainle	ss steel sleeve	Soil Backfill Date:	02-02-2010	Backfill Time			9:17		
Retained Sample Type Recovery (%)	Blow Count/6" PID (ppm)	Water Level	Graphic Log	USCS Soil Classification			<b>Description</b>			Gravel	Coarse Sand	Med. Sand	Fine Sand	
S S S S S S S S S S S S S S S S S S S	<b>面ざ</b> 。 0.0		n	SP-SM	very dark  Sandstone Total Depth Collected s	ded Sand with Silt, yellowative]  Strown (10YR 2/2)  [Chatsworth Formation]  n = 3.0 ft; terminated due oil samples S001 at 08:8 with soil cuttings.	to refusal on bedro	ock.	st, mica	5	15	40	30	
			6- 7- 8- 9-											

Boreh	ole I	Diam.	(in.): 3	2-1/4		To	tal Den	th (ft): 2	Project: SSFL - ISRA Data Gap Sampling 2010 (Outfall 009 Area)					
lorth				344.0	5			t): <b>267</b> 8		n Dra	inan	<u>س</u>		_
		Date:						e: 09:2						
		n Date:						ne: <b>09:2</b>			111, 1			_
		H <sub>2</sub> O (f			, \/A			ne: <b>N/A</b>	Drill Rig Type/Method: Geoprobe/Direct Push	טו ו				_
		O After	•					ne: N/A	Driller's Name: E. Herrera / D. Hawkins					_
										Time		NI/A		_
									rounded by rock outcrops Well Comp. Date: N/A Completio			N/A		
amp	lers:	: Mac	crocor	e, disc	rete	samp	e retaii	ned in 6	nch stainless steel sleeve   Soil Backfill Date: 02-02-2010   Backfill Til			09:38		
Retained	Retained Sample Type Recovery (%) (%) Blow Count/6" O PID (ppm) Water Level				Depth (feet)	Graphic Log	USCS Soil Classification	Description	Gravel	Coarse Sand	Med. Sand	Fine Sand	Cilt/Cloy,	
SM Silty Sand, dark brown (10YR 3/3), medium dense, moist, contains work fragments, mica present [Native]						tr	10	30	40	2				
						2-		SW		tr	25	35	35	į
△4						_			\Sandstone [Chatsworth Formation]	$\top$				Г
									Total Depth = 2.5 ft; terminated due to refusal on bedrock.					
						3-			Collected soil sample S001 at 09:24.					
						_			Backfilled with soil cuttings.					
						4-								
						5								
						6								
						_								
						<b>7</b> -								
						8								
						9								
						_								

<b>(</b>	1	MW	/H							Boring ID: <b>LFB</b> :	S0292							
Borel	nole	Diam.	(in.): 2	2-1/4		Тс	otal De	oth (ft): 1			RA Data Gap Sampling	g 2010 (Outfa	ıll 009 Area)					
North	ing	(ft):	1794	1231.6	7			ft): <b>2678</b>		Job Number: 100820			F-2 (Southern	Drai	inag	e)		
Drill S	Start	Date:	02-0	3-201	0	St	art Tim	e: <b>09:3</b>		Logged By: A. Ruo			By: V. Vatha		n, P	G.		
			: 02-0					me: <b>09:4</b>		Drilling Contractor: St		•	umentation:	PID				
		H <sub>2</sub> O (			N/A			me: N/A		Drill Rig Type/Method:		sh						
			Drillin					me: N/A	d with fresh gr	Driller's Name: E. He	Well Comp. Date: N	J/A	Completion	Timo	. N	I/A		
Samp										ss steel sleeve	Soil Backfill Date: 0		Backfill Time			9:52		
	51010	. 1110	0.000.	, 4.0		, oump				50 01001 010010	Con Backini Bato.	2 00 2010	Daokiiii Tiilik			% of		il
Sample Interval Retained	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Poorly Grad	led Sand, brownish yell	Description	m dense. mo	ist. mica	Gravel	O Coarse Sand	Med. Sand	O Fine Sand	o Silt/Clay
	S			0.0		1			present [Nat	tive]								
									\contains qua	very pale brown (10YF artz, feldspar, and mica = 1.0 ft; terminated du	a [Chatsworth Formation	on]	e-grained,					
									Collected so	oil samples S001 at 09:	36 and D001 at 09:39							
		2— Backfilled with soil cuttings.																
						-	-											
						3-	1											
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						10-												

LOG OF BORING OUTFALL009.GPJ BOEING.GDT 2/25/10

Roreh		ЛW	(in.): 2	2_1/4		Tot	tal Den	th (ft): <b>1</b>	Boring ID: LFBS0293 Project: SSFL - ISRA Data Gap Sampling 2010 (Outfall 009	Δrea)					_
Northi				2-1/4 1230.6	3			t): <b>2677</b>			Drai	inad	e)		_
			02-0					e: 10:0	Logged By: A. Ruotolo Reviewed By:						
			02-0			Fin	nish Tim	ne: <b>10:0</b>							
Depth	1st	H₂O (f	t):	1	N/A	Da	te / Tim	ne: N/A	Drill Rig Type/Method: Geoprobe/Direct Push						_
			Drillin			•		ne: N/A	Driller's Name: E. Herrera / D. Hawkins						
								outcrop	·	pletion T			I/A		_
Sampl <del>≡</del>	lers:	Mac	rocor	e, aisc	crete	sampi	e retaii		nch stainless steel sleeve Soil Backfill Date: 02-03-2010 Bac	kfill Time			0:23 % of		sil.
Sample Interval	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description		Gravel	Coarse Sand	Med. Sand	Fine Sand	
	S	0.0 SP Poort prese				SP	Poorly Graded Sand, yellowish brown (10YR 5/4), medium dense, moist, mi present [Native]  \[ \sum_{a} \text{Sandstone, pale yellow (2.5Y 7/4), highly weathered, friable, contains quartz} \]			10	45	40			
		\frac{\fel}{fel} \tag{Cc}							\[ \feldspar, and mica [Chatsworth Formation] \] Total Depth = 1.0 ft; terminated due to refusal on bedrock.	/					
		1 S SEE TO C					Collected soil sample S001 at 10:04.								
		\frac{\fe}{fe} \tag{Cc}					Backfilled with soil cuttings.								
		\fel \fel \tag{fel}{Cc}													
						-									
						3-									
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						4-									
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		- 1			1 L	- 1	1					1	1		

Boreho	ole C	)iam (	(in ): 1	2-1/4		To	tal Den	th (ft): 4	Boring ID: LFBS0294  Project: SSFL - ISRA Data Gap Sampling 2010 (Outfall 009 Area					_
Vorthin				  240.9	8			t): <b>2678</b>			ninac	ıe)		
									Logged By: A. Ruotolo Reviewed By: V. Va					
Drill Finish Date: 02-03-2010 Finish Time: 08:43 Drilling Contractor: Strongarm Field I  Depth 1st H <sub>2</sub> O (ft): N/A Date / Time: N/A Drill Rig Type/Method: Geoprobe/Direct Push  Depth H <sub>2</sub> O After Drilling (ft): N/A Date / Time: N/A Driller's Name: E. Herrera / D. Hawkins  Comments: Targeting small depression west of metal debris pile Well Comp. Date: N/A  Samplers: Macrocore, discrete sample retained in 6-inch stainless steel sleeve Soil Backfill Date: 02-03-201							,,,,,							
			te: 02-03-2010 Finish Time: 08:43 Drilling Contractor: Strongarm Field Instrumentation  (ft): N/A Date / Time: N/A Drill Rig Type/Method: Geoprobe/Direct Push  er Drilling (ft): N/A Date / Time: N/A Driller's Name: E. Herrera / D. Hawkins  argeting small depression west of metal debris pile Well Comp. Date: N/A Completation of the completation		ГІО				_					
														_
						•				Ti		NI/A		
												N/A		
	ers:	Mac	rocor	e, aisc	crete	samp	le retai	nea in 6-	ich stainiess steel sieeve   Soil Backfill Date: 02-03-2010   Backfill I			09:03		
Retained	Retained Sample Type Sample Type (%) (%) (%) (%) (%) (%) (%) (%) (%) (%)					Gravel	Coarse Sand	Med. Sand	Fine Sand					
	Amplers: Targeting small depression west of metal debris pile  Mell Comp. Date: N/A Completic  Soil Backfill Date: 02-03-2010  Backfill Targeting small depression west of metal debris pile  Macrocore, discrete sample retained in 6-inch stainless steel sleeve  Description  Description  Soil Backfill Date: 02-03-2010  Backfill Targeting small depression west of metal debris pile  N/A Completic  Soil Backfill Date: 02-03-2010  Backfill Targeting small depression west of metal debris pile  N/A Completic  Soil Backfill Date: 02-03-2010  Description  Coll Description  Coll Description  Coll Description  Soil Backfill Date: 02-03-2010  Description  Description  Coll Description  Coll Description  Soil Backfill Date: 02-03-2010  Backfill Date: 02-0			100	10	30	40	1						
						_		CL	Lean Clay, dark grayish brown (10YR 4/2), medium stiff, moist, medium plasticity				10	1 9
▩						4-			Sandstone, brownish vellow (10YR 6/6), highly weathered, moderately friable.	+	$\vdash$			+
										/				
									Total Depth = 4.0 ft; terminated due to refusal on bedrock.					
									Collected soil comple 2004 at 00:41					
									Collected soil sample S001 at 08:41.					
						5			Backfilled with soil cuttings.					
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<u> </u>		ИW								Boring ID: LFB								_
			(in.): 3					th (ft): 1			A Data Gap Sampli			_				_
Northi				1231.8				t): <b>2678</b>		Job Number: 1008208			.F-2 (Southern					_
			02-0					e: <b>08:1</b> 0		Logged By: S. Aichr			By: V. Vatha		in, P	G.		_
			02-0	9-2010	)			ne: <b>08:4</b>		Drilling Contractor: B.		Field Instr	umentation: F	PID				_
		H₂O (f	•		N/A			ne: N/A		Drill Rig Type/Method:								_
			Drillin					ne: N/A		Driller's Name: M. Ho								
							at surf	ace			Well Comp. Date:		Completion	Time		I/A		_
	lers:	6-in	ch sta	inless	stee	el slee	ve				Soil Backfill Date:	02-09-2010	Backfill Time			8:45		_
Sample Interval	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification			Description			Gravel	Coarse Sand	Med. Sand	Fine Sand	
	S			0.6		1-		SM	[Native]	yellowish brown (10YR weathered [Chatsworth		e, moist, micace	eous				60	
									Total Depth	= 1.0 ft; terminated due	e to refusal on bedro	ock.						
						-			Collected so	oil sample S001 at 08:2	5.							
									Backfilled w	ith soil cuttings.								
						2-			Buokimou W	nur con catango.								
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	WH	2		tal D :	th (#\: ^	0	Boring ID: LFBS		ing 2040 (0::15	all 000 A = \					
Borehole Dia					th (ft): 3			A Data Gap Sampli		•	_				
Northing (ft)		4225.30			t): <b>2678</b>		Job Number: 1008208			_F-2 (Debris D					
Drill Start Da					e: <b>08:1</b> 8		,	asin, P.G.	Reviewed	By: C. Carte	r, P.	G.			
Drill Finish D	oate: 03-0	3-2010			ne: <b>08:2</b>	7	Drilling Contractor: B.	L. Hall	Field Inst	rumentation: I	PID				
Depth 1st H		N/A		ate / Tim	ne: N/A		Drill Rig Type/Method:	Hand Auger							
Depth H <sub>2</sub> O A	After Drillin	ng (ft): <b>N/A</b>	Da	ate / Tim	ne: N/A		Driller's Name: M. Ho	ehn							
Comments:	Vegetation	on at surfa	ace					Well Comp. Date:	N/A	Completion	Time	e: <b>I</b>	N/A		
Samplers:	6-inch st	ainless st	eel slee	ve				Soil Backfill Date:	03-03-2010	Backfill Time	e:	(	08:30	)	
<u>6</u>					_							Est.	% of	F So	il
Sample Interval Retained Sample Type Recovery	(%) Blow Count/6"	PID (ppm) Water Level	Depth (feet)	Graphic Log	USCS Soil Classification			Description			Gravel	Coarse Sand	Med. Sand	Fine Sand	
s		0.0	1- 2- 3- 4- 5- 6- 7- 8-		SM	Sandstone. [Chatswortl Total Depth	light yellowish brown (10 micaceous [Native]  h Formation]  n = 3.0 ft; terminated due oil sample S001 at 08:20 with soil cuttings.	0YR 6/4), fine-grain	ned, weathered					70	

W		ИW								Boring ID: LFBS								_
3oreh	ole I	Diam.	`					th (ft): 0			A Data Gap Sampli	ng 2010 (Outfa	all 009 Area)					_
Vorthi	ing (	ft):	1794	259.5	9	Ea	asting (f	t): <b>267</b> 8	811.81	Job Number: 1008208	3	Site: A1L	.F-2 (Debris Dı	raina	ige)			_
Orill St	tart	Date:	03-0	3-2010	0		art Time			Logged By: B. Marta	asin, P.G.	Reviewed	By: C. Carte	r, P.	G.			
Drill Fi	inish	Date:	03-0	3-2010	0	Fir	nish Tin	ne: <b>08:1</b>	5	Drilling Contractor: B.	L. Hall	Field Instr	umentation:	PID				_
Depth	1st	H <sub>2</sub> O (f	t):	1	N/A	Da	ate / Tin	ne: N/A		Drill Rig Type/Method:	Hand Auger							_
Depth	H <sub>2</sub> C	) After	Drillin	g (ft): <b>N</b>	N/A	Da	ate / Tin	ne: N/A		Driller's Name: M. Ho	ehn							
Comm	nent	s:									Well Comp. Date:		Completion	Time	e: <b>N</b>	I/A		
Sampl	lers:	6-in	ch sta	inless	stee	el slee	ve		ı		Soil Backfill Date:	03-03-2010	Backfill Time			8:16		
Sample Interval Retained	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification			Description			Gravel	Coarse Sand ta	Med. Sand	Fine Sand	
	s				SM	Silty Sand, I sandstone f	brown (10YR 5/3), medi fragments [Native]	um dense, moist, co	ontains weathe	red			10	55				
							2-12-1-12-12-1		Sandstone, [Chatsworth	yellowish brown (10YR n Formation]	5/4), weathered, me	oderately stron	g, friable					ŧ
						1-	-		-	n = 0.6 ft (7 in.); terminat		n bedrock.						
			1— Tota				oil sample S001 at 08:12	2.										
		Co			packtilled w	vith soil cuttings.												
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Drill Start Date: 03-03-2010 Start Time: 08:02 Logged By: B. Martasin, P.G. Reviewed By: C. Carter, P.G.  Drill Finish Date: 03-03-2010 Finish Time: 08:07 Drilling Contractor: B.L. Hall Field Instrumentation: PID  Depth 1st H <sub>2</sub> O (ft): N/A Date / Time: N/A Drill Rig Type/Method: Hand Auger  Depth H <sub>2</sub> O After Drilling (ft): N/A Date / Time: N/A Driller's Name: M. Hoehn  Comments: Imported gravel at surface Well Comp. Date: N/A Completion Time:  Samplers: 6-inch stainless steel sleeve Soil Backfill Date: 03-03-2010 Backfill Time:  Est.					_													
Northing (ft): 1794277.52 Easting (ft): 267830.68 Job Number: 1008208 Site: A1LF-2 (Debris Drainage)  Drill Start Date: 03-03-2010 Start Time: 08:02 Logged By: B. Martasin, P.G. Reviewed By: C. Carter, P.G.  Drill Finish Date: 03-03-2010 Finish Time: 08:07 Drilling Contractor: B.L. Hall Field Instrumentation: PID  Depth 1st H <sub>2</sub> O (ft): N/A Date / Time: N/A Drill Rig Type/Method: Hand Auger  Depth H <sub>2</sub> O After Drilling (ft): N/A Date / Time: N/A Driller's Name: M. Hoehn						_												
			1794277.52         Easting (ft):         267830.68         Job Number:         1008208         Site:         A1LF-2 (D           03-03-2010         Start Time:         08:02         Logged By:         B. Martasin, P.G.         Reviewed By:           03-03-2010         Finish Time:         08:07         Drilling Contractor:         B.L. Hall         Field Instrument           t):         N/A         Date / Time:         N/A         Driller's Name:         M. Hoehn           orted gravel at surface         Well Comp. Date:         N/A         Contractor:												_			
							Start Time: 08:02 Logged By: B. Martasin, P.G. Reviewer Finish Time: 08:07 Drilling Contractor: B.L. Hall Field Inst Date / Time: N/A Drill Rig Type/Method: Hand Auger Date / Time: N/A Driller's Name: M. Hoehn ace Well Comp. Date: N/A								G.			_
							Start Time: 08:02 Logged By: B. Martasin, P.G. Review Finish Time: 08:07 Drilling Contractor: B.L. Hall Field I Date / Time: N/A Drill Rig Type/Method: Hand Auger Date / Time: N/A Driller's Name: M. Hoehn Determine M. Hoeh						rumentation. I	עוי				_
			•				Finish Time: 08:07 Drilling Contractor: B.L. Hall Field  Date / Time: N/A Drill Rig Type/Method: Hand Auger  Date / Time: N/A Driller's Name: M. Hoehn  ce Well Comp. Date: N/A  Soil Backfill Date: 03-03-2											-
						Start Time: 08:02 Logged By: B. Martasin, P.G. Rev Finish Time: 08:07 Drilling Contractor: B.L. Hall Date / Time: N/A Drill Rig Type/Method: Hand Auger Date / Time: N/A Driller's Name: M. Hoehn surface Well Comp. Date: N/A eel sleeve Soil Backfill Date: 03-03-2				T					_			
		E Date: 03-03-2010 Start Time: 08:02 Logged By: B. Martasin, P.G. Reviewer th Date: 03-03-2010 Finish Time: 08:07 Drilling Contractor: B.L. Hall Field Instit H <sub>2</sub> O (ft): N/A Date / Time: N/A Drill Rig Type/Method: Hand Auger O After Drilling (ft): N/A Date / Time: N/A Driller's Name: M. Hoehn ts: Imported gravel at surface Well Comp. Date: N/A Soil Backfill Date: 03-03-2010		'														
	lers	: 6-in	ch sta	inless	stee	el slee	ve		T		Soil Backfill Date:	03-03-2010	Backfill Time			8:09		_
Sample Interval	Sample Type	0				Graphic Log	USCS Soil Classification			•			Gravel	Sand	Med. Sand	Fine Sand		
	S 0.0 SM Silt san							sandstone fra	agments [Native]			veathered				60	4	
		0.0 SM			Sandstone, y	yellowish brown (10YR	5/4), weathered, we	eak, friable										
					·-	<u> </u>	to refusal on bedro	nck						t				
		2					or.											
		2			Collected soi	il sample S001 at 08:0	3.											
SM Silty Sand, dark yellowish brown (10% sandstone fragments [Native]  1—  Sandstone, yellowish brown (10YR 5. [Chatsworth Formation]  Total Depth = 2.0 ft; terminated due to Collected soil sample S001 at 08:03.  Backfilled with soil cuttings.																		
						_			Backinioa Wit	ar con catarigo.								
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		Ή							Boring ID: LFBS								
Borehole	Diam.						th (ft): 0			A Data Gap Sampli	ng 2010 (Outfa	all 009 Area)					_
Northing	(ft):	1794	294.5	5	Ea	asting (f	t): <b>2678</b>	346.22	Job Number: 1008208	1	Site: A1L	.F-2 (Debris D	raina	ige)			_
Orill Start	Date:	03-0	3-2010	)			e: <b>07:5</b>		Logged By: B. Marta	asin, P.G.	Reviewed	By: C. Carte	r, P.	G.			_
Orill Finis	h Date	: 03-0	3-2010	)	Fi	nish Tin	ne: <b>07:5</b>	8	Drilling Contractor: B.I	L. Hall	Field Instr	umentation:	PID				_
Depth 1s	t H <sub>2</sub> O (1	ft):	1	N/A	Da	ate / Tin	ne: N/A		Drill Rig Type/Method:								_
Depth H <sub>2</sub>	O After	Drillin	g (ft): <b>N</b>	N/A	Da	ate / Tin	ne: N/A		Driller's Name: M. Ho	ehn							_
Commen	ts: Spa	arsely	vegeta	ated	surfac	e				Well Comp. Date:	N/A	Completion	Time	e: <b>N</b>	I/A		
Samplers	: 6-in	ch sta	inless	stee	el slee	ve		11		Soil Backfill Date:	03-03-2010	Backfill Time			8:00		
Sample interval Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification			Description			Gravel	Coarse Sand	Med. Sand	Fine Sand	
S			0.0		1-	20000000000000000000000000000000000000	SM	weathered s	vellowish brown (10YR sandstone fragments, iron weathered [Chatsworth = 0.8 ft (9 in.); terminate	on oxide staining [N	ative]	ns				70	
								Collected so	oil sample S001 at 07:52	2.							
					-	1		Backfilled w	ith soil cuttings.								
					2												
					7 8 9	-											

	MW				1_				Boring ID: LFBS								_
	Diam.						th (ft): 1.			A Data Gap Sampli							_
lorthing			1282.4				t): <b>2679</b>		Job Number: 1008208			.F-2 (Debris Dr					_
	t Date:						e: <b>08:5</b> 3		Logged By: B. Marta			By: C. Carte		G.			_
	sh Date		3-2010	0			ne: <b>08:5</b> 7		Drilling Contractor: B.		Field Instr	umentation: F	PID				_
	st H <sub>2</sub> O (			N/A			ne: N/A		Drill Rig Type/Method:								_
	<sub>2</sub> O After					ate / Tin	ne: N/A		Driller's Name: M. Ho								
	nts: <b>Ve</b> ç									Well Comp. Date:		Completion	Time		I/A		
	s: <b>6-i</b> r	nch sta	inless	stee	el slee	ve				Soil Backfill Date:	03-03-2010	Backfill Time			8:58		
Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification			Description			Gravel	Coarse Sand	Med. Sand	Fine Sand	
s			0.0		1-		SM	weathered s	dark yellowish brown (1) candstone fragments, row	ootlets [Native]	ense, moist, co	ontains			15	50	
									= 1.0 ft; terminated due		ck.						
	1				-			Collected so	oil sample S001 at 08:5	5.							
	1								•	-							
					2-			Backfilled w	ith soil cuttings.								
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∰ MW						Boring ID: LFB								_
Borehole Diam.	-			epth (ft): 0.			A Data Gap Sampli							_
Northing (ft):	1794282.4			(ft): <b>2679</b>		Job Number: 1008208		I	F-2 (Debris Dr					_
	03-09-201		Start Tir			Logged By: J. Woku		Reviewed	By: C. Carte	r, P.(	G.			
Orill Finish Date	03-09-201	0	Finish T	ime: <b>08:2</b> 2	2	Drilling Contractor: B.	L. Hall	Field Instr	umentation: <b>F</b>	PID				_
Depth 1st H <sub>2</sub> O (f		N/A		ime: N/A		Drill Rig Type/Method:	Hand Auger							_
Depth H <sub>2</sub> O After	Drilling (ft):	N/A	Date / T	ime: N/A		Driller's Name: M. Ho			T					
Comments: Bar	e soil surfa	ce east	t of road, I	pelow (nor	th of) ridgeline	е	Well Comp. Date:	N/A	Completion	Time	: N	I/A		_
	ch stainles	s steel	sleeve				Soil Backfill Date:	03-09-2010	Backfill Time			8:22		
Sample Interval Retained Sample Type Recovery (%)	Blow Count/6" PID (ppm)	Water Level	Depth (feet)	USCS Soil Classification			Description			Gravel	Coarse Sand	Med. Sand	Fine Sand	
	0.0		•	SM	Silty Sand, li	ight yellowish brown (10	OYR 6/4), loose to m	edium dense, i	moist, 1	10		5	65	2
S	0.0		1- 2- 3- 4- 5- 6- 8- 9-		Sandstone [ Total Depth Collected so	Sandstone gravel, no s Chatsworth Formation] = 0.5 ft; terminated due iil sample S001. ith soil cuttings.								

<u> </u>	_	VI W		<u> </u>			4-1.5	41- /£1\ *		Boring ID: LFBS		n= 0040 /O ··	-II 000 A :					—
		Diam.						th (ft): 1			A Data Gap Sampli			_				_
Northi				1291.6				t): <b>2679</b>		Job Number: 1008208			.F-2 (Debris Di					
		Date:		3-2010				e: <b>09:0</b>		70 7	asin, P.G.		By: C. Carte		G.			
				3-2010				ne: <b>09:0</b>		Orilling Contractor: B.		Field Instr	rumentation:	PID				_
		H <sub>2</sub> O (f	-		N/A			ne: <b>N/A</b>		Orill Rig Type/Method:								_
				g (ft): <b>N</b>			ate / Tim	ne: N/A	D	Oriller's Name: M. Ho								_
Comm	nent	s: Veg	jetatio	n at sı	urfac	е					Well Comp. Date:	N/A	Completion	Time	e: <b>I</b>	N/A		_
	lers	: 6-in	ch sta	inless	stee	el slee	ve				Soil Backfill Date:	03-03-2010	Backfill Time			9:08		
Sample Interval Retained	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification		ı	Description			Gravel	Coarse Sand	Med. Sand	Fine Sand	
	S	<b>8</b> %	<b>面</b> び	0.0	M	ŏ 0− 1−	Ō	SM	sandstone fra	ark yellowish brown (1 agments, rootlets [Nati veathered [Chatsworth	ive]	oist, contains w	veathered	ō	ŏ	10	<b>6</b> 0	
										= 1.0 ft; terminated due		ock.						
						_			Collected soil	I sample S001 at 09:0	5							
											<b>~</b> .							
						•			Backfilled with	h soil cuttings.								
						2-	1											
						-	-											
						•												
						3-	1											
						-	-											
						4	1											
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(		MW	/H							Boring ID: <b>LFB</b> :	S0322B							
Boro			(in.):	3		т.	ntal Do-	oth (ft): <b>0</b>	5	T T	RA Data Gap Sam	nling 2010 (Out	all OOG Araal					
					•					<u> </u>				roino				
North		Date:		4291.6 9-201			Easting (ft): 267920.33 Job Number: 1008208 Site: A1LF-2 (Debris Drainage)  Start Time: 08:30 Logged By: J. Wokurka Reviewed By: C. Carter, P.G.  Finish Time: 08:40 Drilling Contractor: B.L. Hall Field Instrumentation: PID  Date / Time: N/A Driller's Name: M. Hoehn  tof road below (north of ridgeling)  Well Comp. Date: N/A Completion Time: N/A											
			: 03-0												G.			
							Date / Time: N/A  Drill Rig Type/Method: Hand Auger  Date / Time: N/A  Driller's Name: M. Hoehn  froad, below (north of) ridgeline  Well Comp. Date: N/A  Soil Backfill Date: 03-09-2010  Backfill Time: 08:40  Feet % of Soil											
		H <sub>2</sub> O (	_		N/A													
			Drillin						th of ridealin			-α: N/Δ	Completion	Timo		I/A		
								elow (Hor	ui oi) riugeiii	ile								
	DIEIS	. 0-11	ICH St	1111165	5 516	ei siee	Ve				Soli Backilli Dat	e. <b>03-09-2010</b>	Dackilli Tilli					il
Sample Interval Retained	Sample Type	Recovery (%)	Blow Count/6" (Count/6" (C								Description			Gravel	Coarse Sand	Med. Sand	Fine Sand	Silt/Clay
				0.1		Ū		SM	Silty Sand,	very dark gray (10YR 3	/1), loose, moist, s	subrounded grains	3,				80	20
	S			0.1					no staining	or odor [Alluvium/Collu	viumj							
***	•					-				[Chatsworth Formation]								
									Total Depth	n = 0.5 ft; terminated du	e to refusal on bed	drock.						
						1-	1		Collected se	oil sample S001.								
									Rackfilled w	with soil cuttings.								
						-	-		Dackilled V	with son cuttings.								
						2-												
						-	1											
						3-	-											
						4-	1											
						-	-											
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LOG OF BORING OUTFALL009-2010.GPJ BOEING.GDT 3/28/10

<u>w</u>	_	VI W				T	4-1-0	11- (ft) <del>-</del>		Boring ID: LFB		2040 /2 /2	II 000 A					—
			(in.): 3					th (ft): 0			RA Data Gap Sampli							_
Northi				277.1				t): <b>267</b> 9		Job Number: 1008208			F-2 (Debris Dr					_
											asin, P.G.	1	By: C. Carte		G.			
		t Date: 03-03-2010								Drilling Contractor: B.		Field Instr	umentation: F	טוי				_
			_							Drill Rig Type/Method:								_
								ne: N/A		Driller's Name: M. Ho			_					_
											Well Comp. Date:		Completion			I/A		_
	lers:	6-in	ch sta	inless	stee	el sleev	/e		<u> </u>		Soil Backfill Date:	03-03-2010	Backfill Time			8:51		
Sample Interval	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification			Description			Gravel	Coarse Sand	Med. Sand of	Fine Sand	
	s			0.0				SM	Silty Sand, to sandstone f	brown (10YR 5/3), medi fragments, rootlets [Nati	ium dense, moist, co ive]	ontains weather	ed			10	60	3
^4							5195453		∖ Sandstone,	yellowish brown (10YR	2 5/4), fine-grained, v	veathered, friab	le /					ŧ
									\[Chatsworth	Formation]								
						1-			ı otal Depth	= 0.6 ft (7 in.); terminat	ted due to refusal or	n bearock.						
									Collected so	oil sample S001 at 08:4	9.							
						+			Backfilled w	vith soil cuttings.								
									W	co catango.								
						2-												
						1												
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	MW Diam.		3		Te	tal Dan	th (ft): <b>0</b>	Boring ID: <b>LFBS</b> Project: <b>SSFL - ISRA</b>	Data Gap Sampli	na 2010 /O#-	II OOG Arca)					_
			3 1277.1:						Data Gap Sampii			oina	\			-
orthing	t Date:					art Time	t): <b>2679</b> e: <b>08:3</b>	Logged By: J. Wokur	dra.	I	F-2 (Debris Dr By: C. Carte					_
											-		G.			_
	sh Date			N/A			ne: <b>08:5</b> ne: <b>N/A</b>	Drilling Contractor: B.L.		Field Instri	umentation: F	עוי				_
	st H <sub>2</sub> O ( <sub>2</sub> O Afte						ne: N/A	Drill Rig Type/Method: I Driller's Name: M. Hoe								-
									Well Comp. Date:	N/A	Completion	Time	· N	Ι/Δ		-
ampler		nch sta					ion (noi	• •	Soil Backfill Date:		Backfill Time			8:50		_
	J. <b>U</b> 11	1011 310			or orce				CON BUCKINI BUIC.	00-00-2010	Dackiiii Tiiric			% of		il
Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification		escription			Gravel	Sand	Med. Sand	Fine Sand	
s			0.1				SM	Silty Sand, very dark gray (10YR 3/1 no staining or odor [Alluvium/Colluviu	), loose, moist, sub uml	rounded grains	5,				80	2
																Ļ
								Sandstone [Chatsworth Formation]  Total Depth = 0.5 ft; terminated due	to refusal on hedro	ck	/					
					4			•								
					1-			Collected soil sample S001.								
								Backfilled with soil cuttings.								
					-											
					2-											
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	MW		•		1_	4-15	41- 750		Boring ID: LFBS		0010 10 15	-11.000.4					_
Borehole							th (ft): <b>C</b>			A Data Gap Sampli							_
Northing			1296.2				t): <b>267</b> 9		Job Number: 1008208		I	.F-2 (Debris Di					
Orill Star							e: <b>09:0</b>		Logged By: <b>B. Mart</b> a	sin, P.G.	Reviewed	By: C. Carte	r, P.	G.			
Orill Finis	sh Date	: 03-0	3-2010	0	Fir	nish Tin	ne: <b>09:1</b>	15	Drilling Contractor: B.I	Hall	Field Instr	umentation:	PID				
Depth 1s	t H <sub>2</sub> O (	ft):		N/A	Da	ate / Tin	ne: N/A		Drill Rig Type/Method:	Hand Auger							_
Depth H <sub>2</sub>	O After	Drillin	g (ft): <b>I</b>	N/A	Da	ate / Tin	ne: N/A		Driller's Name: M. Ho	ehn							_
Commen	nts: <b>Ve</b> ç	getatio	n at s	urfac	ce					Well Comp. Date:	N/A	Completion	Time	e: N	I/A		
Samplers	<u>s: 6-ir</u>	nch sta	inless	ste	el slee	ve				Soil Backfill Date:	03-03-2010	Backfill Time			9:16		
Sample Interval Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification		C	Description			Gravel	Coarse Sand	Med. Sand	Fine Sand	
s			0.0		U-		SM	Silty Sand, d	lark brown (7.5YR 3/2),	loose, moist, conta	ins rootlets [Na	ative]			15	60	
					_			Sandstone (	Chatsworth Formation]								╪
									= 0.5 ft; terminated due	to refusal on bedro	ock.						
					1												
					1			Collected so	il sample S001 at 09:10	J.							
								Backfilled wi	th soil cuttings.								
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Borehole Diam. (in.): 3 Total Depth (ft): 0.5 Project: SSFL - ISRA Data Gap Sampling 2010 (Outfall 009 Area)  Northing (ft): 1794296.21 Easting (ft): 267922.78 Job Number: 1008208 Site: A1LF-2 (Debris Drainage)  Drill Start Date: 03-09-2010 Start Time: 08:50 Logged By: J. Wokurka Reviewed By: C. Carter, P.G.  Drill Finish Date: 03-09-2010 Finish Time: 09:00 Drilling Contractor: B.L. Hall Field Instrumentation: PID  Depth 1st H <sub>2</sub> O (ft): N/A Date / Time: N/A Drill Rig Type/Method: Hand Auger  Depth H <sub>2</sub> O After Drilling (ft): N/A Date / Time: N/A Driller's Name: M. Hoehn  Comments: Bare soil surface east of road, below (north of) ridgeline Well Comp. Date: N/A Completion Time: N/A  Samplers: 6-inch stainless steel sleeve Soil Backfill Date: 03-09-2010 Backfill Time: 09:00  Est. % of Soil		(	MW	/H							Boring ID: <b>LFB</b>	S0324A							
Norming (ff). 1794/286/21 Easting (ff). 26792278 do Number. 1998/288 Size. ALLF-2 (Bebris Drainage) DIEI Erisch Date. 1998/2910 Friesh Time. 1990 Double Field Date. 1990 Double Fie	Borel				3		Т	ntal Der	oth (ft). n	5	<u> </u>		ling 2010 (Outfo	all 009 Area)					
Drill Sand Date: 0.949-2010 Start Time: 0.95:00 Logged By: J. Wokurka Reviewed By: C. Carter, P.G. Delph Ho.A fire of Drilling (1) Finish Time: 0.90:00 Delph Ho.A fire Drilling (1): NAL Delph Ho.A fire Drilling						1									raina	ne)			
Dorli Finish Date: 08-09-2010  Pinish Time: 08-00  Dorling (1) NA  Dorling My NA																			
Depth HA Drift Printing (I): NA Debt / Time: NA Depth HA Drift Printing (I): NA Debt / Time: N																<u>.                                    </u>			
Depth H.O. After Drilling (IT); MA    Depth H.O. After Drilling (IT); MA   Depth H.O. After Drilling (IT); MA   Depth H.O. After Drilling (IT); MA   Samplers: 6-inch stainloss steel sleeve   Soil Backfill Date: 03-09-2010   Backfill Time: 0-000										<u> </u>			T ICIG IIISti	differitation.					
Commence: Bare soil surface east of road, below (north of) ridgeline  Soil Backtill Date: 03.49-2010  Soil Backtill Date: 03.49-2010  Backtill Date: 03.49-2				_								_							
Samplers 6-inch stainless steel sleeve Soil Backfill Date: 03-09-2010 Backfill Time: 09-00 Poly 10 Pol										th of) ridaelii	•		· N/A	Completion	Time	· •	Ι/Δ		
Part									ion) wors	ui oi, nageiii				•					
Description  Descr		51010	. 0-11	1011 311	111100		01 3100					Tooli Backilli Batc	. 00-00-2010	Dackiiii Tiilii					il
s   SM   Silky Sand, very dark gray (10/K 37), loose to medium dense, moist, subtrounded grains, containing or grains, no retaining or odor [Niluvium/Colluvium]   75   26	Sample Interva	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)									Sand	Sand	Fine Sand	Silt/Clay
Sandstone (Chatsworth Formation) Total Depth = 0.5 ft; terminated due to refusal on bedrock. Collected soil sample S001. Backfilled with soil cuttings.		s			0.1		•	1 1 1 1 1 1	SM	Silty Sand, grains con	, very dark gray (10YR 3 ntains minor organics ind	5/1), loose to mediur	m dense, moist, Muvium/Colluvii	subrounded im1				75	25
Total Depth = 0.5 ft; terminated due to refusal on bedrock. Collected soil sample S001. Backfilled with soil cuttings.	$\bowtie$				0.1								una viarri, Conavic	******					
Collected soil sample S001. Backfilled with soil cuttings.  3-  4-  5-  6-  7-  8-											•	<u> </u>	-aal						
Backfilled with soil cuttings.  3-  4-  5-  6-  7-  8-  1-  8-  1-  1-  1-  1-  1-  1-  1										rotal Depti	ii – 0.5 ii, terriiriated du	e to refusal on bedi	OCK.						
2- 3- 4- 5- 6- 7- 8-							1-	1		Collected s	soil sample S001.								
2- 3- 4- 5- 6- 7- 8-										Backfilled v	with soil cuttings.								
3- 4- 5- 6- 7- 7- 8-							-	1			_								
3- 4- 5- 6- 7- 7- 8-																			
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LOG OF BORING OUTFALL009-2010.GPJ BOEING.GDT 3/28/10

Borehole Diam	(in \	<del></del>	т	otal Dos	th (ft): 3	Boring ID: LFBS0325  Project: SSFL - ISRA Data Gap Sampling 20:	U (Unitali UUO Vaca)					
Northing (ft):		1253.71			t): <b>2679</b>		te: A1LF-2 (Debris D	ine	\			
Drill Start Date:					e: <b>14:0</b>		eviewed By: C. Carte					
Drill Finish Date					ne: <b>14:0</b> 0		eld Instrumentation:		G.			-
Depth 1st H₂O		7-2010 N/			ne: <b>N/A</b>	Drill Rig Type/Method: Hand Auger	eiu mstrumentation.	רוט				
Depth H <sub>2</sub> O Afte					ne: N/A	Driller's Name: R. Cano						
			A D	ate / Till	ie. N/A	Well Comp. Date: N/A	Completion	Time	٠. I	N/A		
Comments: In			ataal ala			Soil Backfill Date: 03-17	,					
Samplers: 6-i	nen sta	uniess	steer sie	eve		Soil Backfill Date: <b>03-17</b>	2010   Backfill Tim			14:20 % o		
Sample Interval Retained Sample Type Recovery (%)	Blow Count/6"	PID (ppm)	Water Level Depth (feet)	Graphic Log	USCS Soil Classification	Description		Gravel	Sand	Med. Sand	Fine Sand	
s s		0.0	5- 0- 3- 3- 3- 4- 5- 6- 7- 8-		SM	Silty Sand, dark brown (10YR 3/3), loose, dry, trace fine grave contains organic debris, no staining or odor [Native]  Sandstone, weathered [Chatsworth Formation]  Total Depth = 3.0 ft; terminated due to refusal on bedrock. Orefusal at same depth.  Collected soil sample S001 at 14:00.  Backfilled both locations with soil cuttings.		tr	0	15	60	

	MW						(1 /*)	Boring ID: LFBS0326					
Borehole							th (ft): 4						
Northing			259.4				t): <b>267</b> 9						
Orill Star							e: 13:0			G.			
Orill Finis							ne: <b>13:1</b>		PID				
Depth 1s				N/A			ne: N/A	Drill Rig Type/Method: Hand Auger					
Depth H <sub>2</sub>							ne: N/A	Driller's Name: R. Cano					
Commen	ts: Ste	ep slo	pe we	st of	draina	ige, sui	rface co	vered with brush and grass Well Comp. Date: N/A Completion	Time	e: I	N/A		
Samplers	s: <b>6-ir</b>	nch sta	inless	stee	el sleev	ve		Soil Backfill Date: 03-17-2010 Backfill Tim			13:15		
a a							_			Est.	% o	So	il_
Sample Interval Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description	Gravel	Coarse Sand	Med. Sand	Fine Sand	Silf/Clay
s			0.1		0- 1- 2- 3-		SM	Silty Sand, dark yellowish brown (10YR 4/4), loose, dry, trace fine gravel, no staining or odor [Native]  — slight increase in sand content, grades coarser	tr	tr 5		65	25
s			0.0		4-			Sandstone [Chatsworth Formation]  Total Depth = 4.0 ft; terminated due to refusal on bedrock.					
					-			Collected soil samples S001 at 13:00 and S002 at 13:10.					
								·					
					5— 6— 7—			Backfilled with soil cuttings.					
					8 9								

Porch	nole.	Diam	(in ). 1	2		Та	tal Dan	th (ft): 4	0	Boring ID: LFBS Project: SSFL - ISR		ng 2010 /O4	all OOO Araa\					_
			(in.): 3					th (ft): 4			A Data Gap Sampli			!				_
North				264.5				t): <b>2679</b>		Job Number: 1008208			.F-2 (Debris D					
			03-1					e: 12:3		Logged By: V. Vatha			By: C. Carte		G.			
			: 03-1					ne: <b>12:5</b>	5	Drilling Contractor: B.I		Field Inst	rumentation: I	PID				—
		H <sub>2</sub> O (f			N/A			ne: N/A		Drill Rig Type/Method:								_
			Drilling					ne: <b>N/A</b>		Driller's Name: R. Car								
							d with	brush			Well Comp. Date:		Completion	Time		N/A		
	lers	: 6-in	ch sta	inless	stee	el sleev	/e		T		Soil Backfill Date:	03-17-2010	Backfill Time			2:55		
Sample Interval Retained	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification		C	escription			Gravel	Sand	Med. Sand	Fine Sand	
	S			0.1		0		SM	[Native]	brown (10YR 4/3), loose	, dry, contains roots	s, no staining o	r odor		5	15		
						4-			Sandstone	[Chatsworth Formation]								╪
									Total Depth	= 4.0 ft; terminated due	to refusal on bedro	ck.						
						_			Collected so	oil samples S001 at 12:3	7 and S002 at 12:4	q						
										•	7 414 0002 41 12.4	0.						
						_			Backfilled w	vith soil cuttings.								
						5-												
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			(in.): 3					th (ft): 1			A Data Gap Sampli							_
Northi				1248.7				t): <b>2679</b>		Job Number: 1008208			.F-2 (Debris D					_
				7-2010				e: <b>13:2</b>		Logged By: V. Vatha		Reviewed	By: C. Carte	r, P.	G.			
Orill Fi	nish	Date:	03-1	7-2010	)			ne: <b>13:4</b>	0	Drilling Contractor: B.I	Hall	Field Instr	umentation: I	PID				_
		H₂O (f			N/A	Da	ate / Tin	ne: N/A		Drill Rig Type/Method:	Hand Auger							_
				g (ft): <b>N</b>		Da	ate / Tin	ne: N/A		Driller's Name: R. Ca								
Comm	ents	: Gra	ssy sı	ırface							Well Comp. Date:	N/A	Completion	Time	e: <b>N</b>	N/A		
	ers:	6-in	ch sta	inless	ste	el slee	ve				Soil Backfill Date:	03-17-2010	Backfill Time			3:40		_
Sample Interval Retained	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification			Description			Gravel	Sand	Med. Sand	Fine Sand	
	S			0.0		1-		SM	Silty Sand, t [Native]	brown (10YR 4/3), loose	e, moist, trace fine g	ravel, no staini	ng or odor	tr		15	55	
						-				[Chatsworth Formation]								Ŧ
									Total Depth	= 1.5 ft; terminated due	to refusal on bedro	ck.						
						2-			Collected so	oil sample S001 at 13:2	5.							
						_			Backfilled w	ith soil cuttings.								
						3-	1											
						_												
						4	1											
						_												
						_												
						5	1											
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						6-												
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						-	†											
						8-												
						-	1											
						9-												
						_	]											

Dora'	201-	Diarr	(in ): 4	,		<sub>+</sub> -	tol Dec	th (ft): 2	Boring ID: LFBS0329  Project: SSFL - ISRA Data Gap Sampling 2010 (Outfall 009 Area)					_
		Diam.							· · · · · · · · · · · · · · · · · · ·	\				_
North				1242.9				t): <b>2679</b>	·					_
		Date:						e: 13:4			G.			
		h Date						ne: 13:5		PID				
		H <sub>2</sub> O (1			N/A			ne: N/A	Drill Rig Type/Method: Hand Auger					_
		O After				•	ate / Tin	ne: N/A	Driller's Name: R. Cano					
		ts: Sm							Well Comp. Date: N/A Completion			N/A		
	olers	: 6-ir	ch sta	inless	ste	el slee	ve		Soil Backfill Date: 03-17-2010 Backfill Tir			13:55		
Sample Interval Retained	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description	Gravel	Sand	Med. Sand	Fine Sand	
	S			0.1		1- 2-		SM	Silty Sand, brown (10YR 4/3), loose, dry, trace fine gravel, contains small amount of burned roots, no staining or odor [Native]	tr		15	65	2
						_			\Sandstone, weathered [Chatsworth Formation]	$\top$				
									Total Depth = 2.5 ft; terminated due to refusal on bedrock. One step-out met refusal at same depth.					
						3-	-							
									Collected soil sample S001 at 13:47.					
						_			Backfilled both locations with soil cuttings.					
									Zaokimoa zoan iosaaono mai osii osaanigo.					
						4	-							
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				i .	1 1	10-	1			1	1	1		

e: 03-1 te: 03-1 (ft): er Drilling drainag	257.85 7-2010 7-2010 N/A g (ff): N/A ge, scatte	Sta Sta Fir A Da A Da ered deb teel sleev	tal Depth (ft): 4 string (ft): 267 art Time: 09:4 sish Time: 10:4 ste / Time: N/A ate / Time: N/A ris at surface ve  SM  SM	972.69	Job Number: 1008208 Logged By: V. Vatha Drilling Contractor: B.I Drill Rig Type/Method: Driller's Name: R. Car	wasin, P.G.  Hall  Hand Auger  Well Comp. Date: No  Soil Backfill Date: Comp.  Description	Site: A1I Reviewed Field Inst	LF-2 (Debris Did By: C. Carte rumentation: F	r, P.O	G. e: N	Med. Sand % of		Silt/Clay
e: 03-1' te: 03-1' (ft): er Drilling drainag	7-2010 7-2010 N//g (ft): N//ge, scattr sinless s	Star Fire A De A De ered deb teel sleet	art Time: 09:4  Aris at e / Time: N/A  Aris at surface  Ve  OR CR SOIL  OR CR	12	Logged By: V. Vatha Drilling Contractor: B.L Drill Rig Type/Method: Driller's Name: R. Car	wasin, P.G.  Hall  Hand Auger  Well Comp. Date: No  Soil Backfill Date: Comp.  Description	Reviewed Field Inst	Backfill Time	r, P.O	G. Est.	0:15 % of	Soi	Silt/Clay
te: 03-1 (ft): er Drilling drainag	7-2010  N// g (ft): N// ge, scattr. inless s	Pirit Date of	Graphic Logardian Caracter (Arms) Graphic Logardian Caracter (Arms) Graphic Logardian Caracter (Arms) Graphic Caracter (Arms)	12	Drilling Contractor: B.I. Drill Rig Type/Method: Driller's Name: R. Car	Well Comp. Date: Notes that the second secon	Field Inst	Completion  Backfill Time	Time	:: N 1 Est.	0:15 % of	Soi	Silt/Clay
er Drilling drainag	N// g (ft): N// je, scatti iinless s	A Da	Graphic Log Graphic Log Graphic Log Graphic Log Soli Classification Classification		Drill Rig Type/Method: Driller's Name: R. Car	Hand Auger  Well Comp. Date: Note: N	N/A 03-17-2010	Completion Backfill Time	Time	1 Est.	0:15 % of	Soi	Silt/Clav
er Drilling drainag inch sta	g (ft): N// ge, scattr inless s	Percent debt teet sleev	Graphic Log  Graph		Driller's Name: R. Car	Well Comp. Date: Note: N	03-17-2010	Backfill Time	e: 	1 Est.	0:15 % of	Soi	Silt/Clav
drainag	e, scatte inless s (mdd) Old	Depth (feet)	Graphic Log OSCS Soil Classification		С	Well Comp. Date: Noil Backfill Date: Open Comp. Date: No. 1	03-17-2010	Backfill Time	e: 	1 Est.	0:15 % of	Soi	Silt/Clay
inch sta	PID (ppm) (mgg) I stell	Depth (feet)	Graphic Log USCS Soil Classification	Silty Sand,		Soil Backfill Date: (	03-17-2010	Backfill Time	e: 	1 Est.	0:15 % of	Soi	Silt/Clay
	PID (ppm)	Depth (feet)	Graphic Log USCS Soil Classification	Silty Sand,		Description			I	Est.	% o	Soi	Silt/Clay
Blow Count/6"		- 0-		Silty Sand,			staining or oc	dor [Native]					Silt/Clay
Blow Count/6"		- 0-		Silty Sand,			staining or oc	dor [Native]	Gravel	Coarse Sand	Med. Sand	Fine Sand	
	0.0	-	SM	Silty Sand,	brown (10YR 4/3), loose	, dry, fine gravel, no	staining or oc	dor [Native]					
		3-		<b>y</b> — becomes	s moist				5	10	10	60	15
	0.0	5-				Cornetion			5	10	5	55	25
							refueal on be	-drock					
				Refusal at	1.3 ft in first boring.	t), terrimated due to	reladal on be	ouroux.					
		-	1		-	14 and 0000 -+ 40 40							
				Collected s	son samples 5001 at 09:5	14 and 500∠ at 10:10.	-						
		6-		Backfilled b	ooth locations with soil cu	ıttings.							
		7											
		0.0	5	5—————————————————————————————————————	4—  Sandstone Total Depti Refusal at Collected s Backfilled I	4—  Sandstone, weathered [Chatsworth Total Depth = 5.0 ft (second attemp Refusal at 1.3 ft in first boring.  Collected soil samples S001 at 09:5  Backfilled both locations with soil cu	Sandstone, weathered [Chatsworth Formation] Total Depth = 5.0 ft (second attempt); terminated due to Refusal at 1.3 ft in first boring.  Collected soil samples S001 at 09:54 and S002 at 10:10  Backfilled both locations with soil cuttings.	Sandstone, weathered [Chatsworth Formation] Total Depth = 5.0 ft (second attempt); terminated due to refusal on be Refusal at 1.3 ft in first boring. Collected soil samples S001 at 09:54 and S002 at 10:10. Backfilled both locations with soil cuttings.	Sandstone, weathered [Chatsworth Formation]  Total Depth = 5.0 ft (second attempt); terminated due to refusal on bedrock. Refusal at 1.3 ft in first boring.  Collected soil samples S001 at 09:54 and S002 at 10:10.  Backfilled both locations with soil cuttings.	Sandstone, weathered [Chatsworth Formation] Total Depth = 5.0 ft (second attempt): terminated due to refusal on bedrock. Refusal at 1.3 ft in first boring. Collected soil samples S001 at 09:54 and S002 at 10:10. Backfilled both locations with soil cuttings.	4—  Sandstone, weathered [Chatsworth Formation] Total Depth = 5.0 ft (second attempt); terminated due to refusal on bedrock. Refusal at 1.3 ft in first boring. Collected soil samples S001 at 09:54 and S002 at 10:10. Backfilled both locations with soil cuttings.	4—  Sandstone, weathered [Chatsworth Formation] Total Depth = 5.0 ft (second attempt); terminated due to refusal on bedrock. Refusal at 1.3 ft in first boring.  Collected soil samples S001 at 09:54 and S002 at 10:10.  Backfilled both locations with soil cuttings.	5 10 5 55  Sandstone, weathered [Chatsworth Formation] Total Depth = 5.0 ft (second attempt); terminated due to refusal on bedrock. Refusal at 1.3 ft in first boring. Collected soil samples S001 at 09:54 and S002 at 10:10. Backfilled both locations with soil cuttings.

Rorch		Diam	(in.): 3	2		Та	tal Dan	th (ft). 4	0	Boring ID: LFBS Project: SSFL - ISR		na 2010 (O.:4	all UUG Vace,					_
			` '					th (ft): 4			A Data Gap Sampli							_
North				262.8				t): 2679		Job Number: 1008208		I	.F-2 (Debris D					
			03-1					: 10:2		Logged By: V. Vatha		I	By: C. Cart		G.			
			: 03-1					ne: 10:5	.5	Drilling Contractor: B.I		Field Inst	rumentation:	PID				
		H <sub>2</sub> O (f			N/A			ne: N/A		Drill Rig Type/Method:								_
			Drilling					ne: <b>N/A</b>		Driller's Name: R. Ca								
							at surfa	ace			Well Comp. Date:		Completion			N/A		
	lers:	6-in	ch sta	inless	ste	el sleev	ve		T		Soil Backfill Date:	03-17-2010	Backfill Tim			0:55		
sampie intervai Retained	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification		ι	Description			Gravel	Sand	Med. Sand	Fine Sand	il
	s			0.0		1— 2— 3—		SM	Silty Sand, [Native]	brown (10YR 4/3), loose	e, dry, trace fine gra	vel, no staining	or odor	tr	tr	15		2
	S			0.1		4				[Chatsworth Formation] n = 4.0 ft; terminated due	to refusal on hedro	nck						F
									Collected so	oil samples S001 at 10:2	28 and S002 at 10:4	-2.						
						_			Backfilled w	vith soil cuttings.								
						5-												
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						6-												
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						9-												
					1 I									1	1	1	i	L
						-												

Porch	olo	Diam	(in ): •	•		т.	tal Dan	th (ft): 2		Boring ID: LFBS Project: SSFL - ISR	A Data Gap Sampling	2010 /0	all OOG Araal					_
		Diam.								•			•					_
Northi				268.5				t): <b>2679</b>		Job Number: 1008208			.F-2 (Debris D					_
		Date:		7-2010				e: 11:00		Logged By: V. Vatha			By: C. Carte		G.			_
		Date:						ne: 11:10		Drilling Contractor: B.I		Field Instr	rumentation: I	טוי				_
		H <sub>2</sub> O (f			N/A			ne: N/A		Drill Rig Type/Method:	_							
		) After						ne: N/A		Driller's Name: R. Car								_
								drainage	)		Well Comp. Date: N		Completion			N/A		_
	lers:	6-in	ch sta	inless	stee	el sleev	ve				Soil Backfill Date: 0	3-17-2010	Backfill Time			1:10		
Sample Interval Retained	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification		C	Description			Gravel	Coarse Sand	Med. Sand	Fine Sand	
	S	<b>R</b> 60	B 0	0.0	>	1-	9	SM	Silty Sand, br [Native]	rown (10YR 4/3), loose	, dry, trace fine grave	l, dark stainii	ng, no odor	tr	0	15	65	
						2-			→ Candatana (C	Chataurath Farmatian								╪
						_				Chatsworth Formation] = 2.0 ft; terminated due	to refugal on bodrock	One step	out mot					
									refusal at san		to refusal on bedrock	One step-	out met					
						-	-											
									Collected soil	il sample S001 at 11:01	l.							
						3-			Backfilled bot	th locations with soil cu	ıttinas.							
						·												
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						4												
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		- 1																1

Northing (ft): 1794252.53 Easting (ft): 267970.92 Job Number: 1008208 Site: A1LF-2 (Debris Drainage)  Drill Start Date: 03-17-2010 Start Time: 09:20 Logged By: V. Vathanasin, P.G. Reviewed By: C. Carter, P.G.  Drill Finish Date: 03-17-2010 Finish Time: 09:42 Drilling Contractor: B.L. Hall Field Instrumentation: PID  Depth 1st H <sub>2</sub> O (ft): N/A Date / Time: N/A Da	Roreh	nole	Diam	(in )· 1	3		TΛ	ital Den	th (ft)· G	0 Proje	ng ID: <b>LFBS</b>	A Data Gan Sampli	na 2010 (Outf	all 009 Area\					
Start Date: 03-17-2010   Start Time: 09-20   Logged By: V. Vathanasin, P.G.   Reviewed By: C. Carter, P.G.						2								•	raina	, and			
Depth 19 After Dilling (1) N/A																			
Depth H_O_Rifer Drilling (ft): NIA Date / Time: NIA Driller(s Name: R_Cardoments: On north facing slope) covered with brush panings: 6-inch stainless steel sleev													I			<u> </u>			
Depth H,O After Drilling (ft): N/A Date / Time: N/A Completion Time: N/A Co													T TOTA THOU	differitation.					
Comments																			
Solid Backfill Date: 03-17-2010   Backfill Time: 09:42											ortanio. Iti dai		N/A	Completion	Time	z. I	J/Δ		
Best % of Soliton    Comparison						_								'				)	
Description    Part   P		10.0.										con Backim Bate.		200					oil
SM Silty Sand, pale brown (10YR 6/3), loose, dry, no staining or odor [Native] tr 5 20 55 1 1 - 2 2 3 4 - 3 5 - 5 - 5 5 5 6 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5	Retained	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log							Gravel	Coarse Sand	Med. Sand	Fine Sand	
<b>※■s</b>      01		8			0.1		1— 2— 3— 4—		SM				ng or odor [Na	tive]	tr	5	20	55	
							6-												T
Sandstone, weathered [Chatsworth Formation]										otal Depth = 6.0	π; terminated due	to refusal on bedro	CK.						
Sandstone, weathered [Chatsworth Formation]  Total Depth = 6.0 ft; terminated due to refusal on bedrock.							-	1		Collected soil sam	ples S001 at 09:1	9 and S002 at 09:4	0.						
Sandstone, weathered [Chaisworth Formation]																			
Total Depth = 6.0 ft; terminated due to refusal on bedrock.  Collected soil samples S001 at 09:19 and S002 at 09:40.							7-			Dackinieu with SOI	i cuttings.								
Total Depth = 6.0 ft; terminated due to refusal on bedrock.  Collected soil samples S001 at 09:19 and S002 at 09:40.  Backfilled with soil cuttings.							-												
Total Depth = 6.0 ft; terminated due to refusal on bedrock.  Collected soil samples S001 at 09:19 and S002 at 09:40.  Backfilled with soil cuttings.																			
Total Depth = 6.0 ft; terminated due to refusal on bedrock.  Collected soil samples S001 at 09:19 and S002 at 09:40.  Backfilled with soil cuttings.							_	1											
Total Depth = 6.0 ft; terminated due to refusal on bedrock.  Collected soil samples S001 at 09:19 and S002 at 09:40.  Backfilled with soil cuttings.																			
Total Depth = 6.0 ft; terminated due to refusal on bedrock.  Collected soil samples S001 at 09:19 and S002 at 09:40.  Backfilled with soil cuttings.							8-												
Total Depth = 6.0 ft; terminated due to refusal on bedrock.  Collected soil samples S001 at 09:19 and S002 at 09:40.  Backfilled with soil cuttings.																			
Total Depth = 6.0 ft; terminated due to refusal on bedrock.  Collected soil samples S001 at 09:19 and S002 at 09:40.  Backfilled with soil cuttings.							_												
Total Depth = 6.0 ft; terminated due to refusal on bedrock.  Collected soil samples S001 at 09:19 and S002 at 09:40.  Backfilled with soil cuttings.							_												
Total Depth = 6.0 ft; terminated due to refusal on bedrock.  Collected soil samples S001 at 09:19 and S002 at 09:40.  Backfilled with soil cuttings.																			
Total Depth = 6.0 ft; terminated due to refusal on bedrock.  Collected soil samples S001 at 09:19 and S002 at 09:40.  Backfilled with soil cuttings.			- 1			1	9	1								1			
Total Depth = 6.0 ft; terminated due to refusal on bedrock.  Collected soil samples S001 at 09:19 and S002 at 09:40.  Backfilled with soil cuttings.							•											1	- 1
Total Depth = 6.0 ft; terminated due to refusal on bedrock.  Collected soil samples S001 at 09:19 and S002 at 09:40.  Backfilled with soil cuttings.							·												
Total Depth = 6.0 ft; terminated due to refusal on bedrock.  Collected soil samples S001 at 09:19 and S002 at 09:40.  Backfilled with soil cuttings.							_												
Total Depth = 6.0 ft; terminated due to refusal on bedrock.  Collected soil samples S001 at 09:19 and S002 at 09:40.  Backfilled with soil cuttings.							_												

uarah			'H			1_ :	15	/fu) =	Boring ID: LFBS0334	`				
			(in.): 3				al Depth							
Northi				247.54			sting (ft):							
		Date:		7-2010			rt Time:				.G.			
Drill F	inish	Date:	03-1	7-2010	)		sh Time		Drilling Contractor: <b>B.L. Hall</b> Field Instrumentation	n: PID				
		H₂O (f			N/A	Dat	e / Time	e: <b>N/A</b>	Drill Rig Type/Method: Hand Auger					
Depth	H <sub>2</sub> C	) After	Drilling	g (ft): <b>N</b>	N/A	Dat	e / Time	e: <b>N/A</b>	Driller's Name: R. Cano					
Comn	nents	s: <b>Hea</b>	ıvy bru	ısh at	surfa	ice			Well Comp. Date: N/A Comple	tion Tim	e:	N/A		
Samp	lers:	6-in	ch sta	inless	stee	Isleev	е		Soil Backfill Date: 03-17-2010 Backfill	Time:		09:02	2	
<u>a</u>								_			Est.	% o	f Sc	il
Sample Interval Retained	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description	Gravel	_		Fine Sand	
	S			0.0		1— 2— 3—		SM	Silty Sand, pale brown (10YR 6/3), loose, dry, no staining or odor [Native]  becomes moist	tr	5	20	55	20
×						5—	S	SP-SM	Poorly Graded Sand with Silt, brown (10YR 5/3), loose, moist, no staining or od [Native]	or tr	10	35	45	1
	s			0.0										
									Total Depth = 5.5 ft; terminated prior to refusal on bedrock.					
									Collected soil samples S001 at 08:39 and S002 at 09:00.					
						6-								
									Backfilled with soil cuttings.					
						7-								
						_								
						8-								
		- 1				1						1	1	
						4								
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						9-								
						9-								
						9-								
						9-								

Borehole Diam.	in \· 2	].	Total Dep	th (ft): F	1	Boring ID: LFB: Project: ISRA Data	Gap Sampling 2010	Outfall non	Rogina Propos	rtv.				_
Northing (ft):	267995.76		Easting (fl			Job Number: 100820		Site: CT		ιy				_
Drill Start Date:			Start Time			Logged By: A. Ruot			By: <b>M. Milm</b>	an B	arric	. D (		_
Drill Finish Date:			Finish Tim			Drilling Contractor: B.			rumentation: <b>F</b>		airis	, г.	,	_
					)	_		Field Inst	rumentation. <b>r</b>	עוי				_
Depth 1st H <sub>2</sub> O (f			Date / Tim			Drill Rig Type/Method:								_
Depth H <sub>2</sub> O After			Date / Tim		<del></del>	Driller's Name: R. Ca		A1/A	0 111	<b>.</b>		.,,		_
Comments: On						rusn	Well Comp. Date:		Completion			I/A		_
Samplers: San	iples retaine	ed in 6-in	ch stainle	ess steel	sleeve		Soil Backfill Date:	05-26-2010	Backfill Time			8:40		-
Sample Interval Retained Sample Type Recovery (%)	Blow Count/6" PID (ppm)	Water Level Depth (feet)	Graphic Log	USCS Soil Classification		I	Description			Gravel	Coarse Sand	Med. Sand	Fine Sand	
s	0.0	3		SM	mica prese	very dark grayish browrent, contains roots and to	(101R 3/2), loose, vigs [Native]	ury, weak cerr	enauon,	5	15	25	35	
		6 8		SP	\weak ceme Total Depth Collected s	ided Sand, dark yellowis entation, iron oxidation [\( \) h = 5.1 ft; refusal on weasoil samples S001 at 08: with soil cuttings.	Veathered Chatswo thered bedrock.	rth Formation	e, moist, Sandstone] _/		10	40	45	

Porch	_	VI W		,		T-	tal Dac	th (ft): 4		Boring ID: LFB: Project: ISRA Data		O Outfall ooc	Pooine Press	etı -				—
		Diam.						th (ft): 1			Gap Sampling 201			rty				
Northi				997.21 6-2010				t): 1794		Job Number: 1008208		Site: CTI		D			_	_
		Date:						e: <b>08:4</b> ne: <b>08:5</b>		Logged By: A. Ruot  Drilling Contractor: B.			By: <b>M. Milm</b> umentation:		arrıs	s, P.C	J.	
		Date:			N/A							Fleid Insti	umentation:	PID				_
		H₂O (f D After	•					ne: N/A		Drill Rig Type/Method:								_
								ne: N/A to heavy		Driller's Name: R. Ca	Well Comp. Date:	NI/A	Completion	Time		N/A		
									l sleeve		Soil Backfill Date:		Backfill Tim			N/A )8:59		
	iers.	. San	ipies	retaine	ea ii	i 6-iiici	Stairile		Sieeve		Soli Backilli Date.	05-26-2010	Dackilli Tilli			% of		
Sample Interval Retained	Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification			Description			Gravel	Coarse Sand	Med. Sand	Fine Sand	
	S			0.0		1-		SM	Silty Sand, v mica preser	very dark grayish browr nt, contains roots and tv	(10YR 3/2), loose, vigs [Native]	dry, weak cem	entation,	5	15	25	35	
						-	SHYMARA		Total Depth	= 1.5 ft; refusal on wea	thered Chatsworth	Formation San	dstone.					t
										oil sample S001 at 08:4								
						2-	1		Collected sc	on sample 3001 at 06.4	0.							
									Backfilled w	ith soil cuttings.								
						_												
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	VH							Boring ID: LFBS								
Borehole Diar						th (ft): 2			Gap Sampling 2010			rty				_
Northing (ft):		973.90				t): <b>1794</b>		Job Number: 1008208		Site: CTI						_
Orill Start Date						e: <b>09:0</b> 8		Logged By: A. Ruot			By: <b>M. Milm</b>		Barris	s, P.0	3.	
Orill Finish Da						ne: <b>09:2</b>	1	Drilling Contractor: B.		Field Instr	rumentation:	PID				
Depth 1st H <sub>2</sub> C			N/A			ne: N/A		Drill Rig Type/Method:								_
Depth H <sub>2</sub> O Af						ne: N/A		Driller's Name: R. Ca			0 1 "	<b>-</b>	_			_
Comments: C									Well Comp. Date:		Completion			N/A		_
Samplers: S	ampies	retain	ea in	b-inci	Staini		sieeve		Soil Backfill Date:	05-26-2010	Backfill Tim			09:21 % o		_ oi
Sample Interval Retained Sample Type Recovery	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification			Description			Gravel	Coarse Sand	Med. Sand	Fine Sand	- III
s		0.0		0		SW	Total Depti Three step Collected s	ed Sand, brown (10YR 4, ontains roots and twigs [N ontains roots and twigs [N on one out borings met similar soil sample S001 at 09:10 with soil cuttings.	thered Chatsworth I			5	20	40	30	

															_
											rty				_
Northing															_
								,	I			arris	s, P.C	3.	_
										trumentation: <b>F</b>	PID				_
									d Auger						_
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									•	-					_
	: Sar	npies	retain	ea in	6-inci	n staini	ess steel	eve Soil	Backfill Date: 05-26-2010	Backfill Time					
Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification				Gravel	Coarse Sand	Med. Sand	Fine Sand	
s			0.0		1-		SP	oorly Graded Sand, dark grayish brown ementation, mica present [Native]	n (10YR 4/2), loose, dry, fine	gravel, weak	10	15	40	30	
	Three						ndstone.					-			
					hree step-out borings met similar refusa	al.									
					-	1		ollected soil sample S001 at 09:27.							
								ackfilled with soil cuttings							
					3-			ackilled with soil cuttings.							
					_										
					4	†									
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					5	]									
					5										
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			Total Depth (ft): 2.0 Project: ISRA Data Gap Sampling 2010, Outfall 009, Boeing Property  7972.00 Easting (ft): 1794278.81 Job Number: 1008208 Site: CTLI-1  26-2010 Start Time: 09:25 Logged By: A. Ruotolo Reviewed By: M. Milman-Barris, P.G.  26-2010 Finish Time: 09:39 Drilling Contractor: B.L. Hall Field Instrumentation: PID  N/A Date / Time: N/A Drill Rig Type/Method: Hand Auger  Ing (ft): N/A Date / Time: N/A Drill Rig Type/Method: Hand Auger  Ing (ft): N/A Date / Time: N/A Drill Rig Type/Method: Hand Auger  Ing (ft): N/A Date / Time: N/A Drill Rig Type/Method: Hand Auger  Ing (ft): N/A Date / Time: N/A Drill Rig Type/Method: Hand Auger  Ing (ft): N/A Date / Time: N/A Drill Rig Type/Method: Hand Auger  Ing (ft): N/A Date / Time: N/A Date / Time: N/A Drill Rig Type/Method: Hand Auger  Ing (ft): N/A Date / Time: N/A Drill Rig Type/Method: Hand Auger  Ing (ft): N/A Date / Time: N/A Drill Rig Type/Method: Hand Auger  Ing (ft): N/A Date / Time: N/												
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