



#### Logged by: 11/2/99 Log Date: West Side of Building

Γ

#### Elevation: 234 Drilling Date: Auger HD-1

SPT	W (%)	Density	Туре	Depth	USCS	
2 3 5					FL	Dense, moist, brown-gray SAND (Fill) .
20				_ 5 _	СО	Stiff, moist to wet, black-reddish brown PEAT.
12 23 23 52	27 23			_ _ 10 _		grades to wet, very soft gray-black peaty clayey SILT
31	20			-  -  -		
38 60/4"	16			— 15 —	SM	Dense, wet, black to dark gray gray SAND with occasional wood and organics.
50/5"	18		X			
12 15	27			_ 20		grades to wet, very soft gray-black peaty clayey SILT.
23						
12/4"			$\square$	_		
12	23		$\boxplus$	- 25 	GWS	Very soft, wet, gray slightly silty CLAY with red-brown peat, very slight in plasticity.
38			X			
35				_ 30		becomes gray SILT mixed with REFUSE
12 12/5"	35					
					END	Boring completed at and depth of about 61.5 feet below the ground surface. Groundwater was encountered at about 24.0 feet below the ground surface at the time of drilling.



**CIVILTECH SOFTWARE** 

#### RIVERFROT COMDOM PROJ NO EVERETT, WASHINGTON

		B-1-	199	9				
	Project: RIVERFROT COMDOM Drill Rig: Auger F-123 Initial GW Depth: 10 feet	Date: 2/3/99 Hole Dia: 2 Inc Final GW: 46.5	h. feet				Logg Samp Hole	ed By: 10' BGS ATD bler: HKJ Elev: 123
	Description	USCS Class	Graphic Log	Depth	Water	Sample	Penetration	Remarks
	Dense, moist, brown-gray SAND (Fill) .	FL		— 0 — —			12	Type Remark here
Date: 09/04/08	Stiff, moist to wet, black-reddish brown PEAT.	PT		5  	Ţ		20	
File: C:\Superlog4\PROJECT\Ex04_note.log	grades to wet, very soft gray-black peaty clayey SI	LT		- - - - - - - - - -			38	fine content=34%
tware, USA www.civiltech.com	Dense, wet, black to dark gray gray SAND with occasional wood and organics.	SM		20   25 _			52	
SuperLog CivilTech Sol	grades to wet, very soft gray-black peaty clayey SI	LT.		  30   			31	
	CivilTech Software Bellevue, WA	Note T	HIANIA es: This is note	— 35 e. Its	hows	on repo	ort.	A234-1 Page 4

B-1-	1999							
Project: RIVERFROT COMDOM Drill Rig: Initial GW Depth: 234	Date: 11/2/99 Hole Dia: 2 inch Final GW: 256		Logged Sample Hole El	l By: ' er: CG ev: 20	WJS àF 00			B-1
Description		USCS Class	Graphic Log	Depth	Water	Sample	Penetration	Remarks
Dense, moist, brown-gray SAND (Fi	II) .	FL		0  			2 3 5	Type Remark here
Stiff, moist to wet, black-reddish bro	wn PEAT.	CO		- 5 - -			20	
grades to wet, very soft gray-black p	peaty clayey SILT			- 10 - -	¥		12 23 23 52	fine content=34%
Dense, wet, black to dark gray gray occasional wood and organics.	SAND with	SM		-  15 		T	31 38 50	heave noted
grades to wet, very soft gray-black p	eaty clayey SILT.			- - 20 -			12 15 23	neave noted
Very soft, wet, gray slightly silty CLA peat, very slight in plasticity.	Y with red-brown	GWS		-   -	Ţ		12/4"	van shear stress = 2 tsf
becomes gray SILT mixed with REF	USE			- - 30 -			35	
Boring completed at and depth of at the ground surface. Groundwater w about 24.0 feet.	bout 61.5 feet below as encountered at	END	± ±	- - - _ 35			12	
<b>CivilTech S</b> Bellevue, WA	oftware	Note	s:	- 00				NO12-98 Page 1

SuperLog CiviiTech Software, USA www.civiitech.com File: C:\Superlog4\PROJECT\Ex05\_drw.log Date: 09/04/08

B-1-1999	Project Drill Rig Hole Di Initial V Final G	: RIVERFF g: HS Augo a.: 2 Inch. Vater Dept W Depth: 4	ROT C er h: 10 46.5 fe	OMDO feet eet	M Date Loge Sam Hole Tota	e Drilled: 10' BGS ATD ged By: HKJ pler: TDG e Elev.: 32.5 Il Depth: 61.5 feet
Description	Soil Type	Graphic Log	Soil Dept	ч <sup></sup> Samples	SPT	Remarks
Dense, moist, brown-gray SAND (Fill) .	FL		— 0 _			
Stiff, moist to wet, black-reddish brown PEAT.	PT		_		12	Type Remark here
grades to wet, very soft gray-black peaty clayey SILT			- 10 -	Ţ	20	
	OM		- - 20		38	fine content=34%
Dense, wet, black to dark gray gray SAND with occasional wood and organics.	SM		_	Ţ	52	
grades to wet, very soft gray-black peaty clayey SILT.			- 30 - -		31 38/60/4"	
Very soft, wet, gray slightly silty CLAY with red-brown peat, very slight in plasticity.	CN		- 40	X	50/5"	heave noted
			_	X	36	
			-		23	
becomes gray SILT mixed with REFUSE			— 50 -		12/4"	
			- - 		12	van shear stress = 2 tsf
Boring completed at and depth of about 61.5 feet below			_		38	
the ground surface. Groundwater was encountered at about 10 feet below the ground surface at the time of	2.10	-	_			

70



SuperLog CivilTech Software, USA www.civiltech.com File: C:\Superlog4\PROJECTEx06.log Date: 09/04/08

drilling.

Plate A- 6

	CivilT	ech Soft	ware	<u>م</u>	B-1-1999				Page 7					
!	555 116t	h Ave. NE,	Suite	180	RIVERF	ROT COMDOM WASHINGTON		Job N	umber:					
	Belle	evue, WA 9	8004		4	A <i>S3698</i>		Eleva	tion:					
Driller:	Gregry	Drilling				Drilling	Da	ite:		Tim	e:			
Drill M	ethod: S	iteam Auge	ər			Started:		3/12	/99		12:30 AM			
Sample	e Metho	d: 2" SPT				Finished:		3/12	/99		4:30 PM			
Boreho	old Diam	eter: 2 Inc	h.	Water Lev	vel : 10	Logged By: WFG			Checke	d By:	CHL			
Sample	Recovery	Blow Counts	PID/FID	Depth	Graphic Log	Materials Descriptic		Moisture	Remarks					
1		12			Dense, moist,	brown-gray SAND (Fill wet, black-reddish brow	). vn P	EAT.			Type Remark here			
2		20		<b>₹</b> 10	grades to wet,	very soft gray-black pe	eaty	clayey S	SILT					
3	27	38									fine			
5	23	52		 	Dense, wet, bl occasional wo	ack to dark gray gray S od and organics.	SAN	D with			content=34%			
6	20	31		30—	grades to wet,	very soft gray-black pe	eaty	clayey S	ILT.					
7	16	38/60/4"												
8	18	50/5"		40	Very soft, wet, peat, very slig	gray slightly silty CLA` ht in plasticity.	Y wit	h red-br	own		heave noted			
9	27	36												
		23												
	23	12/4" 12		50	becomes gray	SILT mixed with REFU	JSE				van shear stress = 2 tsf			
		38			Boring comple below the grou encountered a surface at the	eted at and depth of abo und surface. Groundwa at about 10 feet below t time of drilling.	out 6 ater he g	61.5 feet was round						

Date Drilled: Gregry Drilling							Driving Weight and Drop: Steam Auger	Elevation: 2" SPT						
	Depth	Elevation	Samples		SPT	Graphic Log	Decription	Well	Density	%M	Other			
	— 0 _	0					Dense, moist, brown-gray SAND (Fill) .							
	_	_	1		12		Stiff, moist to wet, black-reddish brown PEAT.							
	- 10 	_ 10 	2 3		20	0°0°0°0°0°0°0°0°	grades to wet, very soft gray-black peaty clayey SILT							
8	- 20	_ 20	4		38	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				27				
ate: 09/04/0	_	_	5		52		Dense, wet, black to dark gray gray SAND with occasional wood and organics.			23				
08_piez.log Da	- - 30	_ _ 30	6		31		grades to wet, very soft gray-black peaty clayey SILT.			20				
ROJECT\Ex	_		7		8/60/4			Å Å		16				
superlog4∖F	_ 40	_ 40	8	x	50/5"		Very soft, wet, gray slightly silty CLAY with red-brown peat, very slight in plasticity.	- ç ç ç		18				
File: C:\S	_	_	9	M	36			¢ ¢		27				
ech.com	_	_			23			ά Υ						
www.civilte	— 50 _	— -50 —			12/4"		becomes grav SILT mixed with REFUSE	ç <del>⊢</del> ç ⊂ <sup>ç</sup> ⊂						
are, USA	_	_		⊞	12			ڊ چ چ		23				
ech Softwa	_ 60	_ 60		×	38			ې ې ې						
uperLog CivilT	_	_ _ _					Boring completed at and depth of about 61.5 feet below the ground surface. Groundwater was encountered at about 10 feet below the ground surface at the time of drilling.							
S	_ 70	-70												

# RIVERFROT COMDOM EVERETT, WASHINGTON AS3698



**CivilTech Software** 

Geotechnical Engineering and Applied Earth Sciences

Figure No. 8

Client Name: City of Everett Date Drilled: Gregry Drilling Surface Elevation: 234 Total Depth of Hole: 61.5



Proje	ect:		B-1-	-19	999						
Borir	ng Locati	ion: \	Nest Coenrt of teh Building		V	/ater er	າດວເ	untered at	t 10 fe	eet	
Date	Started:	3/11	uring drilling. It droped down to 24								
Drilli	ng Metho	od: S		iyo i							
Ham	mer Weig	ght: 3									
Sam	pler: Split	t Spo									
Depth	Lith-		s s	am	ples	La	borat _≳	ory			
(leet)	ology			nai Description			ype	SPT	W%	ensit	UU (nof)
0	<del></del> 1		Surfac	ce Elevation: 234						ă	(psi)
_			Dense, moist, brown-gray SAN	ID (FIII) .		1		12			120
_		-	Stiff, moist to wet, black-reddis	h brown PEAT.				12			120
-						2		20		120	
- 10		Ŧ	arades to wet very soft aray-bl	lack peaty clavey SILT							
			gladee to thet, tely contighty of			3					
89											
09/04/						4		38	27		
	ÎÎÎÎ		Dense, wet, black to dark gray	gray SAND with occasion	al wood and	_					
log		¥	organics.			5		52	23	98	250
						6		31	20		
			grades to wet, very soft gray-bl	lack peaty clayey SILT.							
						7		38/60/4"	16		
ile: C:I											
= 40			Very soft, wet, gray slightly silty	y CLAY with red-brown pea	at, very slight in	8	×	50/5"	18		
) 			plasticity.								
						9		36	27	68	500
1 mm						10		23			
<u>ເຊິ່</u> 50						11		12/4"		110	
Softwa			becomes gray SILT mixed with	REFUSE							
						12	⊞	12	23	120	275
00 — 60						13	×	38			
<i>•</i>			Boring completed at and depth Groundwater was encountered	of about 61.5 feet below t at about 10 feet below the	the ground surface.						
-			the time of drilling.		g. curra curra cu						
-											
				<b></b>				DI-+	<u>ــــــــــــــــــــــــــــــــــــ</u>	<u> </u>	
		C	IVIII I ECH SOTTW	are	City of Everet	·		Plate	A- 10	U	





TEST PIT TP-1-1999	Project RIVERFR Project No: SD97 Client: Washingt Location: West B Elevation: 123	OT COMDOM 869 on Stat suilding	Exc. Date: 12/2 Exc. Depth: 12 Logged By: Gi Plotted By: HJ Water Level: 5	2/98 ? feet HF K feet
Description	Soil Type	Graphic Test Pit	Soil Depth	Water Samples
Dense, moist, brown-gray SAND (Fill) .	FL		0	
Stiff, moist to wet, black-reddish brown PEAT.	СО		- - - - - 4	
grades to wet, very soft gray-black peaty clayey SILT				_
Dense, wet, black to dark gray gray SAND with occasiona wood and organics. grades to wet, very soft gray-black peaty clayey SILT.	I SM			
Very soft, wet, gray slightly silty CLAY with red-brown pea very slight in plasticity. becomes gray SILT mixed with REFUSE	t, GWS			
Test Pit completed at and depth of about xx feet below the ground surface.	e END			

Test Pit



**Page** 13

	CivilT	ech Sof	twar	e	B-1-1999			Page 14						
Ę	555 116t	h Ave. NE.	, Suite	180	RIVERF	ROT COMDOM WASHINGTON	Job N	umber:						
	Belle	evue, WAS	98004		A	NS3698	Elevat	ion:						
Driller:	Gregry	Drilling			·	Drilling	Date:		Tim	e:				
Drill M	ethod: S	team Aug	jer			Started:	3/12/	'99		12:30 AM				
Sample	e Metho	d: 2'' SPT				Finished:	3/12/	'99		4:30 PM				
Boreho	old Diam	eter: 2 Inc	ch.	Water Lev	rel : 10	Logged By: WFG		Checked	By:	CHL				
Sample	Recovery	Blow Counts	Samples	Depth	Graphic Log	Materials Description								
1		12			Stiff, moist to v	brown-gray SAND (Fill wet, black-reddish brow	). vn PEAT.			Well Information				
2 3		20		¥ 10-	grades to wet,	very soft gray-black pe	eaty clayey S	ILT						
4 5	27 23	38 52		20—	Dense, wet, bl occasional wo	ack to dark gray gray S od and organics.	SAND with			Well Information				
6 7	20 16	31 38/60/4"		30—	grades to wet,	very soft gray-black pe	eaty clayey S	LT.						
8	18	50/5"	x	40	Very soft, wet, peat, very sligi	gray slightly silty CLA	Y with red-bro	own		Well Information				
9	27	36 23												
	23	12/4" 12		50 <u>-</u> нн 	becomes gray	SILT mixed with REFU	JSE	\		Well Information				
		38	X		Boring completed at and depth of about 61.5 feet below the ground surface. Groundwater was encountered at about 10 feet below the ground surface at the time of drilling.									

### **B-1-1999 RIVERFROT COMDOM EVERETT, WASHINGTON**

**Drill Rig: HS Auger** Sampling: SPT Logged By: 2 Inch. Total Depth: 46.5 feet Groundwater: 10' BGS ATD Date Started: 3-19-99 Date Completed: 3-22-99 Elevation: 32.2 feet Coordinates: N 4503.9 E 6981.03

Description	Graphic 4 Log 0	Sample Type	SPT N-Value	MC (%)	Remarks
Dense, moist, brown-gray SAND (Fill) .	0	pe			
Stiff, moist to wet, black-reddish brown PEAT.		encounter	12		Type Remark here
grades to wet, very soft gray-black peaty clayey SILT	- 10	GWT not	20		
Dense, wet, black to dark gray gray SAND with occasional	20		38	27	fine content=34%
wood and organics.			52	23	
grades to wat, very soft gray black peaty clayey SILT	30		31	20	
grades to wet, very soft gray-black peaky clayey SILT.			38/60/4"	16	
Very soft, wet, gray slightly silty CLAY with red-brown peat, very slight in plasticity.	40	X	50/5"	18	heave noted
			36	27	
			23		
becomes gray SILT mixed with REFUSE	50		12/4"		
		⊞	12	23	van shear stress = 2 tsf
	60	×	38		
Boring completed at and depth of about 61.5 feet below the ground surface. Groundwater was encountered at about 24.0 feet below the ground surface at the time of drilling.	_				
	- 70				



Date: 09/04/08

File: C:\Superlog4\PROJECT\Ex15.log

SuperLog CivilTech Software, USA www.civiltech.com

CIVILTECH SOFTWARE

Plate A-15

## CivilTech Software

#### Boring Log No. B-1-1999 RIVERFROT COMDOM

Hammer: Pnumatic Downhole Hammer Hammer										lb): 300#	Hole de	pth (ft): 32		
am	pler:	2" C	DD S	5plit	-spoon			Drop (in): 30	G.W.T. @ Drilling	(ft): 10 feet	Sampled by: JKN			
rille	er: Ta	con	na D	rilli	ng				9	Logged by: VNF				
Depth Strata GWT No. Type Blows Per 6" USCS						nscs		Soil	blow/ft ure % 40 60	Notes				
)			1		2-3-5	GC-GM	Den	se, moist, brown-gra	y SAND (Fill) .			Type Remark here		
I			2		20	CO	Stiff	, moist to wet, black-	reddish brown PEAT.					
			3		12									
0		Ŧ	4		12-23-23		<b>6</b> 100	lee to wat very coft				fine content=34%		
			5		52		SIL1	r F	гау-ыаск реату стауеу					
5			6		31					0	+			
			7	▼	38-60/4"						0	beeve noted		
			o 9		12-15							neave noted		
0			10		23	SM	Den occa	se, wet, black to dar asional wood and org	gray gray SAND with anics.		ć			
		¥	11		12/4"									
5			12		12		grac SIL1	des to wet, very soft ς Γ.	ray-black peaty clayey			van shear stress = tsf		
			13	$\boxtimes$	38									
0			14 15		35 12-12/5"	GWS	Very red-	y soft, wet, gray sligh brown peat, very slig	tly silty CLAY with ht in plasticity.			no recovery		
					L	END	Bori belo	ng completed at and w the ground surface	depth of about 30 feet					

<b>Company Name</b> B-1-1999										RIVERFROT COMDOM Maintai Ranier Washington			
Pı	ojec	t FG	H						Driler	Tacoma Drilling	2236	~	
Pı	oj N	lo. El	D896	9698-23   Date West Side of Building									
D	rillir	ng Mo	ethod	l: Auger					Eleva	tion: 234	<u>OM /</u>	2	
D	Diameter: 2" Water Table : 12								Logge	d by: Auger HD-1	D	rawing 23	
Sample No.	Sample Type	Recovery (%)	RQD (%)	Blow Count per 6 inches	Blows/Foot (N)	Water Table	Depth (ft BGS)	Graphic Log		Materials Description		Moisture (%)	Remarks
1				2-3-5			- 0 -		FL	Dense, moist, brown-gray SAND (Fill) .			Type Remark here
2				20			5 —		СО	Stiff, moist to wet, black-reddish brown PEAT			
3				12-23-23	27								fine content=34%
5				52	23	<b>X</b>	10 —			grades to wet, very soft gray-black peaty claye	у		
6				31	20		_						
7	_			38-60/4"	16		15 — 						
8	X			50/5"	18		_						heave noted
9	Ħ			12-15	27		20		SM	Dense, wet, black to dark gray gray SAND wit	h		
10				23						occasional wood and organics.			
11	H			12/4"		ĮŢ							
12	⊞			12	23		25 —			grades to wet, very soft gray-black peaty clayer SILT.	у		van shear stress = 2 tsf
13	$\mathbb{X}$			38									
14				35			30 —		CWC	Nom off mat and light 'to OLAN 't			
15				12-12/5"	35				END	very sort, wet, gray slightly slity CLAY with red-brown peat, very slight in plasticity. becomes gray SILT mixed with REFUSE Boring completed at and depth of about xx fee below the ground surface.	t		no recovery





### Your Firm Name

# Boring Log No. B-1-1999 RIVERFRONT CONDOM

am	mer: Pn	uma	atic Downhole Han	nmer								На	amme	r weight (ll	b): 300#	Hole depth (ft): 32					
amj	pler: 2"	OD	Split-spoon				D	rop (i	n): 30			G.	W.T. (	@ Drilling	(ft): 10 feet	Sampled by: JKN					
rille	er: Taco	ma	Drilling									Dr	rill Dat	te: 2/23/99		Logged by: VNF					
	GWT	F	Piezometer	0	■ ○ 20	SPT. Moist	blow/ ure % 40	/ft 60	Blows Per 6"	SPT-N	Type	No.	Strata	nscs		Soil Description					
0	2		Concrete Type Remark here						2-3-5	8		1		EN	Dense, moist, brown-	-gray SAND (Fill) .					
5			fine content=34%	0					2-3-12	15	X	2		СО	Stiff, moist to wet, bla	ack-reddish brown PEAT.					
10	¥		fine content=34% —Pipe Text						12-12-12 12-23-23	24 46		3 4									
	2		fine content=34%	0					52 31	23		5			grades to wet, very so	oft gray-black peaty clayey SILT					
15	Ž		-Bentonite					+	38-60/4"	100		7		SM	Dense, wet, black to organics.	dark gray gray SAND with occasional wood and					
			heave noted						50/5"	100	X	8									
20	0.00	0 0 0	—Gravel 1st line.						12-15 23	15 23		9 10			grades to wet, very se	oft gray-black peaty clayey SILT.					
	¥ 00	0 0 0 0 V	Type 2nd line. 3rd line.	0				+	12/4"	100		11		GWS	Venu soft wet gravis	lightly silly CLAV with rad-brown post, you slight					
25	0,00,00	0,00,0	—Pipe Text van shear stress = 2 tsf						12-11-12	23	$\square$	12		0110	in plasticity.	wywy oncy obier with recroiown peat, very sligi					
	0,00,000 0,00,00	<u>~0000</u>	—Pipe Text						38	38	$\square$	13									
30	50°020	0000				$\top$		+	12-12/5"	100		15		_	becomes gray SILT n	nixed with REFUSE					
														END	Boring completed at a surface.	and depth of about 30 feet below the ground					

### Your Firm Name

#### Boring Log No. B-1-1999 RIVERFRONT CONDOM

		Han.	City of Coottle										MO#- 0245 A					
ł	Loca	tion:									WU#: 2345-A							
	Meth	od: F	Iollow Stem, Continous	Flight, 6" Auger									Ground EL: 231					
	Hamı	mer:	Pnumatic Downhole Ha	ammer					Н	ammer	weight (It	o): 300#	Hole depth (ft): 32					
	Samp	oler:	2" OD Split-spoon		Drop (	in): 30			G	i.W.T. @	Drilling (	(ft): 10 feet	Sampled by: JKN					
	Drille	er: Ta	coma Drilling						D	rill Dat	e: 2/23/99		Logged by: VNF					
	Depth	GWT	Notes	■ SPT. I ○ Moistu	olow/ft ire % 10 60	Blows Per 6"	SPT-N	Type	No.	Strata	USCS		Soil Description					
-	— 0 - -		Type Remark here			2-3-5	8		1		GC-GM	Dense, moist, brown-gra	y SAND (Fiil) .					
-	- 5 -		fine content=34%			2-3-12	15	X	2		CO	Stiff, moist to wet, black-	reddish brown PEAT.					
	_					12-12-12	24		3									
	- 10	Ţ	fine content=34%	0		12-23-23	46		4			grades to wat your off a	rray black pacty dayou CILT					
04/08	_					52	23		5			grades to wet, very soit (	iray-black pearly clayey SiL i					
Date: 09/	- 15		fine content=34%		+	31	23		6									
ECT\Ex22_test.log	- 15 -		heave noted		+	38-60/4" 50/5"	100	T	7		SM	Dense, wet, black to dark organics.	s gray gray SAND with occasional wood and s gray gray SAND with occasional wood and s gray gray gray gray gray gray gray gray					
perlog4/PROJ	- 					12-15	15		9									
File: C:\Su	_		fine content=34%.			23	23		10			grades to wet, very soft g	ray-black peaty clayey SIL I .					
iviltech.com	-	Ţ	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	$\circ$		12/4"	100	$\square$	11		GWS	Verv soft, wet, grav sligh	tlv siltv CLAY with red-brown peat. very slight					
USA www.c	— 25 -		van shear stress = 2 tsf			12-11-12	23	⊞	12			in plasticity.	, , , , , , , , , , , , , , , , , , ,					
ch Software,	_					38	38	X	13									
erLog CivilTe	- — 30					35	35		14									
Supt	_		no recovery			12-12/5"	100		15			becomes gray SILT mixe	ed with REFUSE					
	_										END	Boring completed at and surface.	depth of about 30 feet below the ground					
	— 35 Rei	mark: This i	S: s remarks. This is for typing tex	t, text, text, all you want to	type for the	boring is here	e. Up	to 255	wore	ds can be	typed in here	. Here, here, here, here.						

#### MY GEOTECHNICAL ENGINEERING, INC BORING LOG NO. B-1-2000

F	PRO	OJEC.	PROJECT NO. WS4687-3										
L	_OC	ATION:	CAPI	TAL HI	LL 2346 ST	R.				GROU	ND EL.	: 234	
0	DRIL	LER: J	KN					LOGGER: SDF		HOLE	DEPTH	l (ft): 24	
	DRIL	L DATE	E: 8/23	/00				METHOD: 8" Auger	LAB	ORATOF	Y TES	T RESU	LTS
	Depth	Elevation	Type No.	Recovery (in./in.)	Blows Per 6"	NSCS		Soil Description	Moisture (%)	Liquid Limit Plastic Limit	Dry Density (pcf)	Unconfined Compressive Strength (ksf)	Depth
0	, 	200 _ _	1		12	SM	Bro de	own silty sand with gray gravel. very nse UYyoyu poiupo opioi[pi[pi[pi[p p[ip[i	8	8	12		0   
5	;	_ 195 _	2		5	СО	Sti PE	ff, moist to wet, black-reddish brown AT.	15	15	5		5 —
	_	_	3		13				24	24			_
6/04/08 1	0	_ 190	4		9				46	46	23	22	- 10—
Date: 0	_	_	5		8		gra cla	ades to wet, very soft gray-black peaty ayey SILT	23	23		122	_
Ex23.log	_	_	6		31				23	20	2		
PROJECT	5—	— 185 	7		60	GM	Sil	ty Gravels	100	100	100	22	15— 
superlog4	_	_	8		35		•		100	100		100	_
Eile: C:	20	_ 180	9		25		ar	ades to wet very soft grav-black peaty	15	15	6		20—
ch.com	_	_	10		12		cla	ayey SILT.	23	23		12	
ww.civilte	-	_ 	11		40	CWR		ny aaft, wat, arou alightly ailty CLAV with	100	100	9		_
° nsa ™	25	— 175 _	12		23	GWS	rec	d-brown peat, very slight in plasticity.	23	23	12	23	25—
ch Softwar	_	_	13		38				38	38	50		_
g CivilTec C		_ — 170	14		35				35	34	34		30—
SuperLo	-	-	15		46	END	be Bo fee	comes gray SILT mixed with REFUSE ring completed at and depth of about 30 et below the ground surface.	100	100	12		-

Remarks:

Type your notes here. Type your notes here.

	Depth, FT	Symbol	nscs	Samples	Ground Water		Depth, FT	St	andar	rd Pe ■ E	<b>netrat</b> Blows p % Wate	i <b>on</b> I ber fo er Co	Resis	tanc	;e
Surface Elevation: Approx. 230 Brown silty sand with gray gravel. very dense UYyoyu poiupo opioi[pi[pi[pi[p p[ip[i	0 - 		SM	1	Å Å	d `⊲d `⊲d	0 —	0		20	30	40	0	50	60
Stiff, moist to wet, black-reddish brown PEAT.	5 5		CO	2			- 5 — -			) 	)				
grades to wet, very soft gray-black peaty clayey SILT	10 10 			4 🚺	reType		- - 10 — -			0			0		
Well-Graded Sand with SiltGSSDG PODSIO PODSI TSP[I[STI[ P[ ITS[PDIT[PIS TP[ST DKLFJ Z ;LDKL;k;lk ;lkdf;lkfd;lkfds;f dsfdfdsfd VFDSGSDGSGSG	15 		SW-SM	6 7 8 X		4	- 15 — -	-							++
grades to wet, very soft gray-black peaty clayey SILT.	20 2			9 X	00:00:00	0 0 0 0 0 0	 20 								+(
Very soft, wet, gray slightly silty CLAY with red-brown peat, very slight in plasticity.	25 		GWS	11 ⊟ 12 ⊞ 13 ∑		0 <u>~0</u> ~0 <u>~0</u> ~0 <u>~0</u>		-					•		_
becomes gray SILT mixed with REFUSE Boring completed at and depth of about 30 feet below the ground surface.	30 		END	14	0.00.00	0000V0	- 30 — - -	-							+0
Date Completed: 8/23/00 Driller: Gragry Drilling Equipment: Hollow Stem, Continous Flight	<u>35</u> _		Type Note iew ew p e[ir[pewi	es here e oi iewr r rew i epewi reiw	poup roeuwu [pieri w[p epv [pewi r[pe[pev	ew[u vir i p  v peir	35 — rew re e [ewir we pewir p	ur uewoj e[piewr p ipe iwp[id	ou roewu [ pew [pe e wpir[pir	u rpo rpe ewir [pe rrer	ewir ewirp priew	p ir			
Drilling Method: 6" Auger Hammer System: Downhole 144# Hammer									46 ST	DUI R.					
MATERIALS LABORATORY			WA	L 67897	0G 0 7A-2		BUI	TIN	G B	-   -2	200( FIC	GUF	RE A	- 21	

Logged by: JKN

Reviewed by: VNF

DRILL RIG Auger steam	E ELEVA	TION 23	34			LOGGED BY WRS					
DEPTH TO GROUNDWATER 24	BORING	DIAMETE	ER 8"-iı	nch			DATE DF	RILLED	12/24/00		
DESCRIPTION AND CLASSIFICATION DESCRIPTION AND REMARKS	CONSIST	SOIL TYPE	DEPTH (FEET)	SAMPLER	PENETRATION RESISTANCE (BLOWS/FT)	WATER CONTENT (%)	DRY DENSITY (PCF)	UNCONFINED SOMPRESSIVE STRENGTH (KSF)	OTHER TESTS		
Brown silty sand with gray gravel yery dense		1.1.1.1.1.1	_0		L						
UYyoyu poiupo opioi[pi[pi[pi[p p[ip[i	Very Dense				12	8	8	12			
Stiff, moist to wet, black-reddish brown PEAT.					5	15	15	5			
				-	13	24	24				
	Firm		10		9	46	46	23	22		
grades to wet, very soft gray-black peaty clayey SILT					8	23	23		CPT=23"		
					31	23	20	2			
Silty Gravels VFDSGSDGSGSG			15 	-							
					40	100	100	9	Van Shear=234psf		
grades to wet, very soft gray-black peaty clayey SILT.	Hard to Very Harc		20 	-	23	23	23	12	23		
		ШĮ	 - ¥ -								
red-brown peat, very slight in plasticity.			25		. 38	38	38	50			
becomes gray SILT mixed with REFUSE					35	35	34	34			
Boring completed at depth of 34		± ±			46	100	100	12			
Type your notes here. Type your notes here.			35	]				.2			
PROCESS.			FX	(PI	OR			ORINO	3106		

1470 Enea Circle	EXP	LORATION BO	RING LOG
Suite 1551 Concord, CA 94520	RI	VERFRONT CON Oakland, CA	DOM
FAX 925.688.1001	PROJECT NO.	DATE	BORING NO.
	Proj. No. 78234-34243	12/12/00	B-1-2000

#### RIVERFROT COMDOM EVERETT, WASHINGTON

Drill Rig: Gregry Drilling Sampling: Steam Auger Logged By: 2" SPT Total Depth: Auger HD-1 Date Started: CGF Date Completed: 200 Elevation: erewr Groundwater: 12/24/00





## **CIVILTECH CORPORATION**

Plate A-26

	SOIL DESCRIPTION	Depth, FT	Symbol	SOSU	Samples	Blow/6"	Lab Test	Ground Water	Depth, FT	Stan	dard I Resis Blow % W	Penetra tance vs per /ater (	ation foot Cont.	1
	Dense, moist, brown-gray SAND (Fill) .	— 0 – – –		GM	1	24			— 0 — _ _		20 3	0 40	50	60
	Stiff, moist to wet, black-reddish brown PEAT.	5 5		CO	2	3	12		5 — -					
	grades to wet, very soft gray-black peaty clayey SILT	_ _ 10			3 4 💌	24 100	80	¥	 10		0			\
		- - - - 15			5	23	20		- - 15	0				
og Date: 09/04/08		_			7 8 X	70 18	36		-					+
ROJECT\Ex27_test.l	Dense, wet, black to dark gray gray SAND with occasional wood and organics.	20 		SM	9	27	100		20 — 		<b></b>			+
ile: C:\Superlog4\P	grades to wet, very soft gray-black peaty clayey SILT.	- 25 			11 12	23	23	¥	 25					
v.civiltech.com	Very soft, wet, gray slightly silty CLAY with red-brown peat, very slight in plasticity. becomes gray SILT mixed with REFUSE	_ _ 30		GWS	13				  30	-				
oftware, USA www	Boring completed at and depth of about 30 feet below the ground surface.	-	±.t	END	15	35			-					
uperLog CivilTech S	Date Completed: 2/23/99 Driller: 32 feet	35 ⊺I U	his is re p to 25	emarks. 5 words	This is can be	for typin typed in	g text, f	text, text, all Here, here, h	35 — you want ere, here	to type for	the bo	ring is h	ere.	
s	Equipment: 12/12/89 Drilling Method: Auger HD-1 Hammer System: 12/24/00					RIV	ER	FROT 2345		MDON	Л			
	CivilTech Softwar	re		Ci	L ty of	.OG f Sea	<b>OF</b> Ittle	F BOF	RING	а̀ В-1∙ г	-19 1GU	99 RE 4	<b>- 2</b> (	0

	Log	g of Test Bo	oring	TB-1				Pro	ject N	lo. N	<b>1I-02</b> 2	2001-	50	
Project	t: JB Kenehan	-						Loca	tion: V	Wauk	kesha, V	WI		
Depth	Description of Material	I	Elevation	Geological	v	NL	Sam	ple			Testing			
ft	Ground Surface Elevation	1		Origin			No.	Туре	N	W	OC	DD	Pq (tsf)	
_	3 1/2" Asphault, Crushed Limest	tone		Pavement	t		1	FAS		20	sd	233	45	
_	Basecourse													
-	Fill, brown, very moist		98.4	Fill				C D			1000			
-	Fill, silty sand with gravel, brow	n, very	95.9				2	SB	46		1233		54	
-	moist	, ,												
-5							2	СD	10	17				
-							5	30	19	1/				
_	Fill, silty sand with gravel		92.4											
							4	SB	4		23			
	Organic Lean Cllay (OR)		90.9	Buried Tops	soil		•	50	'		23			
-														
-10					1/14	4/02								
-						-								
-														
_														
_														
-15														
							5	SB	19		232	33	45	
-														
-							6	SB	38	23				
-														
-20	Silty Sand (SM)		88 4	Coarse Allur	vial		7	SB	63/7	11			11	
-	Sinty Sand (Sivi)		00. <del>4</del> 01.1	Coarse 7 ma	viai		<i>'</i>	50	0.5/7	11			11	
-			04.4											
_														
25														
- 25														
-														
-														
-														
_														
_30														
_	End of Boring													
_														
_														
-														
- 35						I	I		I	I		I	1	
					*	Samp	le fron	n 0 to 12	inches	with	no set r	et yotur	et	
			-		u	retop	ureretp	our putr	e ret tre	etr	-			
	Water Level Mea	asurements			Date:	12/1	12/01			Cre	w Chief: P	aul K.		
Date	Time	Depth (ft)	Eleva	ation (ft)	Drilling M	Aethod:	: Paul K.			-				
					Drilling C	Co.: 2-1	/4" HSA	13.5'						
							Plugging Procedure: Bentonite Chip							

### **KTE Consultants**



#### 602 Lila Avenue Milford, OH 45150 Phone: (513) 831-6868 Fax: (513) 831-6894

### **TEST BORING LOG**

CLI	IENT	Cingular Wireless							BO	RING #		В	-1-200	)2		
PR	OJECT NAME	Radio Tower DAY-	AAFX059						JO	3 NO.		72	2.7512	27.01	49	
PR	OJECT LOCATIO	DNSE 4231 S	R 370						DR	AWN B	Υ	S	gfu iuf	iuds	fp	
		Yellow Spr	ings, Green Co., Ohio						AP	PROVE	D BY_	5	Seewr	ew	rwer	
		DRILLING a	nd SAMPLING INFO	)							٦	TEST	DAT	<u> </u>		
	Date Started	06/02/01	Hammer Wt.	30 in												
	Date Completed	D. Jamison	Hammer Drop	2 in												
	Drill Foreman	Terewrewr	Spoon Sampler OD	erewr						-	E E					
	Inspector	Wyt uiyiui	Rock Core Dia.	ewrew	r			<i>(</i> 0		atior	engl	lete	%			
	Boring Method	140 lbs	Shelby Tube OD	ewrr			90	aphice	(%)	enetra per fi	confii /e Str	etrom	ntent	(TT)	t (PL)	
[		SOIL CLASS	IFICATION	Ę	<b>5</b>	ele	le Typ	ole Gra	very (*	lard P blows	sf Un pressiv	sf et Pen	ure Co	l Limit	c Limi	arks
		SURFACE ELEVA	TION: 200 feet	Stratu	Depth	Samp Vo.	Samp	Samp	Seco.	Stand Fest,	Du - 1 Comp	PD	loistu	-iquic	Plasti	Jems
_	ୁସ Well-Grad	led Gravels		0				$\overline{\square}$					2	-		
_	Top Soil			1	-	1	SS	\  o	0.5	12		2.75	19			
80 –					-											
9/04/	Brown, S/	ANDY CLAY (CL)			-	-										
ate: 0 					-											
ö	moist, stif	f			5 —											
– log					-	2	CU	<b> </b> 0	0.6	6		15				
r\F29 	Dense, ta	n, moist, silty SAND	(SM)	7	-											
					-	-										
⊢ PRC					-											
erlog <sup>4</sup>	Very dens	se, tan grey, moist, g	ravelly, silty SAND		10-											
Supe	(SM)				-	3	CA		0 6/4	01 40						No recovery @
- :: -					-					-						0
Ē -					-	-										
в —					-	-										
eh.c					15 —	-										
ivilte –					-	4	RC	/	1	68	120		21	20	5	
- ww					-	-		$\square$								
× –	Hard, gre	v. moist, sandy SILT	(MH)	18	-	-										
e, US		,,, ca	()		-	-										
ftwar 					20 -	-										
h Soi					-	5	CU		).8	50/3"						
ilTec					-	-										
ġ _		w moist CLAV with	some silt (CU)		- 1	-			7/3	01						
berLo	Haru, gre	y, MUISI, GLAT WILLS			-	-				Ž						
Ins	V/	N														

#### Sample Type:

- SS Driven Split Spoon
- ST Pressed Shelby Tube
- CA Continuous Flight Auger
- RC Rock Core
- CU Cuttings
- CT Continuous Tube

#### Depth of Ground Water:

- After Drilling

#### **Boring Method:**

HSA - Hollow Stem Augers CFA - Continuous Flight Augers DC - Driving Casing MD - Mud Drilling

Page 1





brown PEAT. grades to wet, very soft gray-black peaty clayey SILT Dense, wet, black to dark gray gray occasional wood and organics. grades to wet, very soft gray-black peaty clayey SILT. Very soft, wet, gray slightly silty CLAY with red-brown peat, very slight in