

APPENDIX 4A Soil Boring Logs

ELEVATION ___22±

l			,	, , , , , , , , , , , , , , , , , , , 	,		
Graph US	Soil Description	Depth (ft.)	Sample	(N) Blows/ Ft.	₩n (%)		
ML	Brown, fine, sandy SILT to clayey silt, medium dense, moist.	- 5 <u>V</u>		17 13	7.4 42		
SM	Gray, silty, fine to medium SAND, loose, wet.	- 		4 9	37 30		-
######################################	Gray, clayey SILT, soft, wet.	- - 15	エ	15	32	LL=36 PL=26	
SM	Gray, black, silty SAND with lenses of soft clayey silt, medium dense, wet.	- - - 20	I	16	32		
		_ 25	エ	16	59		
		- - - 30	I	9	27		
			I	24	25		
SP	Black, clean SAND, medium dense, wet, with lenses of soft, clayey silt and silt with	40	工	15	45		
	sand and clay.	45	I	25	2£		
SM	Gray, silty SAND, medium dense, wet.	50	Ī	11	27 -		
		- - -		18	33		

Boring terminated at 54 feet on 8/8/79.

Driving Energy: 140 lb. Weight Dropping 30 inches

998 W. O. No.

Earth

• •

ELEVATION 23±

	_				7		
Graph	US CS	Soil Description	Depth (ft.)	Sample	(N) Blows/ Ft.	Wn (%)	Dry Density (pcf)
	ML	Brown, fine sandy SILT with clay, loose, wet.			15 4	29 41	
		10000 j. m. 300	- 3		2	36	
			10		3	30 38	91 pcf
	SM	Black, silty fine to medium SAND, medium dense, wet with lens of clayey silt at 33 feet.	_ 15		15	26	
			20	П	10	38	79 pcf
			_ 25	工	7	29	-
			30	T	41	23	
			- - - 35	工	15	46	
11.11.12.14.14	SP	Black, clean, fine to medium SAND, medium dense, wet with lenses of silt.	E 40		11	28	-
			Ę	工	5	39	
	ML	Gray, clayey SILT, soft, wet.	45				
RIGHT	SP	Black, clean SAND, medium dense, wet.	_ 		15	36	
	SM	Gray, silty SAND, medium dense, wet.	- - - -	<u> </u>	13	29	

Boring terminated at 54 feet on 8/8/79.

Driving Energy: 140 lb. Weight Dropping 30 inches

W. O. No. 998

Earth

Consultants

ELEVATION 24.5±

Graph	US CS	Soil Description	Dep (ft		Sample	(N) Blows/ Ft.	Wn (%)	Dry Density (pcf)
	SM	Brown, silty SAND, medium dense, becomes loose, moist.	_ _ _ 5			15 6 4	68 19 42	84.5
		Brown, mottled SILT with clay and sand, soft, wet.	-	V	土	3	43	
	SM	Gray, silty SAND, loose, wet.	[10 		I	6 5	62	
		Gray, fine SILT with clay and sand, loose, wet.	15 15		工工工工	3 25	54	
	201	Gray silty SAND, loose to medium dense, wet with silt lenses.	20 			8	29	
		Gray, clayey SILT with organics, soft, wet	—25 - - - - - 30		I	13	33	
SM SP	" bendium donen wat with cliver cilt lanc			工	31	24		
			-35 - -		<u> </u>	6	22	(

Boring terminated at 39 feet on 8/9/79 Pore pressure transducer installed at 16 feet.

Driving Energy: 140 lb. Weight Dropping 30 inches

W. O. No. 998

ELEVATION 23±

				7.11		
Graph US	Soil Description	Depth (ft.)	Sample	(N) Blows/ Ft.	₩n (%)	
	Brown, mottled, fine, clayey SILT, medium dense, becomes loose, moist.			16 7 8	8.3 34 41	
		<u>-</u> 10		12	31	
SM	Gray, silty fine SAND to slightly silty SAND with lenses of clayey SILT at 12 and 28 feet, loose to	15		4	56	-
	medium dense grading to dense at about 33 feet.	20	I	20	32	• 7
		25		11	27	
		30	I	11	47	
		<u> </u>	<u> </u>	39	27	·

Boring terminated at 34 feet on 8/9/79.

Driving Energy: 140 lb. Weight Dropping 30 inches

W. O. No. 998

Earth Consultants

ELEVATION ____22.5±

		, M. S. C.					. (
Graph	CS	Soil Description	Depth (ft.)	Sample	(N) Blows/ Ft.	₩n (%)	
	SM ML	Brown, silty SAND to sandy SILT.	_	<u></u>	13 6	9	
	ML	Mottled, fine, sandy SILT with clay, soft, wet.	_ 5 - \		4	42	
			10	エ	13	28	
	SM	Black, silty fine to medium SAND, loose to medium dense, wet. Soft silt lens at 13 feet.	_ _ _ 15		3	43	
		• •	_ 20 _	I T	22	29	
	ML	Brown, clayey SILT with organics, stiff,	25	エ	- 4	103	qu-1.5tsf
	SM SP	moist. Black, slightly silty to silty fine to medium SAND, loose becomes dense, wet.	30	I	8	36	
					34	24	

Boring terminated at 34 feet on 8/9/79.

Driving Energy: 140 lb. Weight Dropping 30 inches

W. O. No. 998

ELEVATION 23.5±

1						
Graph US	Soil Description	Depth (ft.)	Sample	(N) Blows/ Ft.	₩n (%)	
ML	Mottled, sandy SILT, medium dense, moist.	- - - 5	НН	11 11 4	94 32 41	
SM ML	Black, silty SAND, loose to medium dense, wet with lenses of clayey sandy SILT.	- ∇ - 10 - 15		7 12 3	32 32 28	,
			工	34	23	
ML	Gray, clayey SILT with some peat and organics, medium stiff, becomes very	- - - 25	工	5	45	
	soft, wet.	30	I	0	84	
1	Black, silty SAND, dense, wet.	<u> </u>		31	41	

Boring terminated at 34 feet on 8/10/79.

Driving Energy: 140 lb. Weight Dropping 30 inches

W. O. No. 998

Earth Consultants

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ELEVATION ____ 23.5±

<u> </u>	г						. /
Graph	US CS	Soil Description	Depth (ft.)	Sample	(N) Blows/ Ft.	₩n (%)	
	ML	Mottled SILT, medium dense, becomes loose, moist.	- - ∑ ⁵	I I	14	34	
	SM	Black, silty fine SAND, loose, wet.	X 	I	5 6 · 5	39 36 37	
	ML	Gray, clayey SILT, soft, wet.	 15	工	4	44	
			20	I	35	-	
	SM SP ML	Black, slightly silty to silty sand with lenses of clayey SILT, loose to medium dense, wet.	25 _	<u> </u>	5	59	
	, , _	Todat to medicin dense, wet.	30	工	5	42	
			_ 35	工	28	30	(
		-	<u> </u>		16	25	

Boring terminated at 39 feet on 8/10/79.

Driving Energy: 140 lb. Weight Dropping 30 inches W. O. No. 998

FIELD DRILL/LITHOLOGIC LOG BORING/WELL NUMBER MY-1



CROSSY AND OVERTON

Environmental Management, Inc. 11791 Manaren Serent Garden Grove, California 92641

		~
PROJECT C&O, Inc., Kent	•	OWNERJim_Dent-
LOCATION Kent, Washington	<u>.</u>	PROJECT NUMBER
DATE DELLED 2/8/89		TOTAL DEPTH OF HOLE 13'
CUREACE EL EVATION		DEPTH TO WATER 5' SLOT SIZE 0.02'
SORFACE CEE TATTOTE	LENGTH 10'	SLOT SIZE n. no:
CASING: DIA 411	LENGTH 21	<u> </u>
DRILLING COMPANY CEO Inc.		DRILL METHOD HEL
DRILLER Hala		LOG BY Hubbard

SU	IRFAC REEN	E E!	LEVAT	1011			_ LEN	GTH 10' SLUI SIZE 0.02'
CASING: DIA4" ORILLING COMPANY CEO Inc. DRILLER Hala					[nc.			CTH 21 TYPE 240 SOUTH 40 ORILL METHOD HS1 LOG BY Hubbard
じこといわ	≃ co	ILL IIST	PID (PP)A)	SAM	,	פר מיע	GRAPHIC LOG	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
5			0			7 9 14		Dark brown silty-sand with numerous volcanic pabbles, cobbles and boulders, fair permeability, no odor Note: Groundwater at 5'
5								TD 13'

FIELD DRILL/LITHOLOGIC LOG BORING/WELL NUMBER _ MW-2



CAOSBY AND OVERTON

Environmental Management, Inc. 11791 Manarth Street Garden Grove, California 926

PROJECT <u>C&O</u> , Inc. Ke LOCATION <u>Kent</u> , Wash DATE DRILLED <u>2/7/89</u>	ington	OWNER Jim Denc FROJECT NUMBER TOTAL DEPTH OF HOLE 13'
SURFACE ELEVATION SCREEN: DIA. 4" CASING: DIA. 4" DRILLING COMPANY C: ORILLER Hale	LEN	OEPTH TO WATER 4 1/2' NGTH 10' SLOT SIZE 0.02' NGTH 3' TYPE PYC.SCHED 40 DRILL METHOD HSA
Tueu I C I	PLES 일,	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
5- 0		Volcanic pebbles, cobbles, and boulders in a dark brown silty-sand, no odor Note: GW ac 4 1/2'

FIELD DRILL/LITHOLOGIC LOG BORING/WELL NUMBER MW-3



CROSBY AND OVERTON Environmental Management, Inc. 11791 Manaich Street

Garden Grave, California 79041.

7 T	•	OUDICO -1 D
		OWNER
LOCATION Kent, Washington		PROJECT NUMBER
		TOTAL DEPTH OF HOLE 14'
SURFACE ELEVATION		CEPTH TO WATER 5 1/2
SCREEN: DIA. 4"	LENGTH 19!	SLOT SIZE0.02'
		TYPE_PVC, SCHED 40
DRILLING COMPANY CSO, Inc. '	·	DRILL METHOD HSA
DRILLER Hala		LOG BY Nubbard

SURFACE SCREEM: CASING: C DRILLING	DIA. <u>4</u> NA. <u>4</u> COMPAN	" " IY <u>C&O</u> ,	Inc.	l	.EM	GTH 10' SLOT SIZE 0.02' GTH 4' TYPE PVC, SCHED 40 DRILL METHOD HSA
DRILLER-	Hale					LOG BY Nubbard
(FEET)	רונג ביי PID (PPI,D	SAMA		GRAPHIC GRAPHIC	٦	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
C	O					Dark brown silty-sand with numerous volcanic peoples, cobbles and boulders, fair perceability, no odor Note: Drilling slow and diffiacult groundwater 5 1/2 As above TD 14'

FIELD DRILL/LITHOLOGIC LOG BORING/WELL NUMBER MM-4



CROSSY AND OVERTON

Environmental Management, Inc. 11791 Manarch Street Garden Grave, California 986

PROJECT CSO, Inc. Kent	OWNER Jim Danc	
LOCATION Kent, Weshington	PROJECT NUMBER_	
DATE DRILLED 2/7/39 SURFACE ELEVATION	DESTH TO WATER 5 1/2	
SCREEN; DIA. 4" LEN	MGTHSLOT SIZE 0.02"	
CASING: DIA LEN	NGTH 4 TYPE PVC. 503ED 40	
DRILLER Hala	DRILL METHOD HSA LOG BY Hybbard	
		_

CASING: DI	A4				GTH 4' TYPE 770, 500ED 40
DRILLING COMPANY CSO. Inc.					DRILL METHODHSA
DRILLER-	M. 3		-		LOG EY Hybbard
######################################		SAMPL!		GRAPHIC LOG	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
5-	0		2		Dark brown silty-sand with numerous volcanic pabbles, cobbles and boulders, fair paraeability, no odor Note: Drilling slow and difficult Groundwater at 5 1/2'.
10					As abova TD 14'

FIELO GRILL / LITHOLOGIC LOG BORING/WELL HUMBER _ MM-5____



CROSBY AND OVERTON Environmental Management, Inc. 11791 Manageh Street

Gordan Grave, California 92041

297	HEC	T C.	50. I:	nc. Kan	t			OWNER Ita Dent
1.00	10 T I	 ว.ಚ	Kent	, Washi	ロ로とC	בנו		PROJECT NUMBER
TAG	E DS	31LL	ED_2	/7/89				TOTAL DEPTH OF HOLE 13'
SC 8	,, ,, o 15514	: 014	4	ıi .			_ LEN	IGTH 10! SLOT SIZE 0.02"
00.5	illiG:	DIA	,4	11			LEN	NGTH 3' TYPE PVC, SCHED 40
חמון	MI IN	G QQ	HEAH	Y_040_				ORILL METHOD HSA
ואט	55. 1 57	=K:	312				···	LOG BY Hubbard
<u> </u>		<u> </u>	·	 				
[a	14.5	LL IST	(ኮቦነህ)	SAMA	PLES	3	GRAPHIC LOG	DESCRIPTION/SOIL CLASSIFICATION
17.0			ĕ	 			출절	DESCRIPTION JOIL GENERATION
(FEE	PIPE	FILE	PID	NUMBER	1 2	al GW	25	(GOLOR, TEXTURE, STRUCTURES)
	 -	Li.		 			<u> </u>	,
0						}	<u> </u>	Dark brown clayey-silt, very moist, conesive,
								_ poor permeability, no odor
-	Ì		•					
-							├ -	-
					1 .		<u> </u>	
	f i							
1	ĺ					6		Note: Groundwater at 5 1/2'.
5 -			0			11		1
_			•			14	├ -	·
				ļ				As above, with minor sand
	-	.]	
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10-			÷					
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	<u> </u>				'			As above
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PROJECT NAME LOCATION DRILLED BY

Chempro · Crosby and Overton (see figure)
P.T.L.

PAGE REFERENCE ELEV. TOTAL DEPTH

BORING NO.

MW-7S 1 OF 1

4" ID HSA DRILL METHOD LOGGED BY K. Lakey

DATE COMPLETED

16.50 6/19/89

200	JGED B	1 1	_ Lakey				DATE COMPLETED 6/19/89	
SAMPLE NUMBER	SAMPLE TYPE	PENETRA- TION RATE/TIME PER 6-	GROUND	NEPTH. SAMPLES	LITHO- LOGIC COLUMN	WELL DETAILS	LITHOLOGIC DESCRIPTION	
• ,						\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0-2.5 feet SANDY GRAVEL; (FILL).	
1	CAL	4- 5- 6				****	2.5 - 5.0 feet: SILT; grey, abundant root fragments; low plasticity; soft to medium stiff; moist. (ML)	
2	CAL	3 -3 -5	_ - - - <u>뀿</u>	5			5.0 - 7.5 feet: CLAYEY SILT to SILTY CLAY; grey mottled brown; trace root fragments; soft to medium stiff; moist. (ML)	٠
							7.5 - 16.5 feet: SAND; black; fine; trace organics; loose to medium dense; wet. (SP)	
3	CAL	3- 6- 8	<u> </u>	10				
	5 5 5 5		- - -					
4	CAL	8-10-15		15	: : : :		Boring terminated at 15.5 feet.	
		·	- - -	20				٠,



REMARKS

594-17.01 CROSA C IE 06/30/89

PROJECT NAME LOCATION DRILLED BY

Chempro - Crosby and Overton

(see figure) P.T.L.

BORING NO.

PAGE

MW-7D 1 OF 3

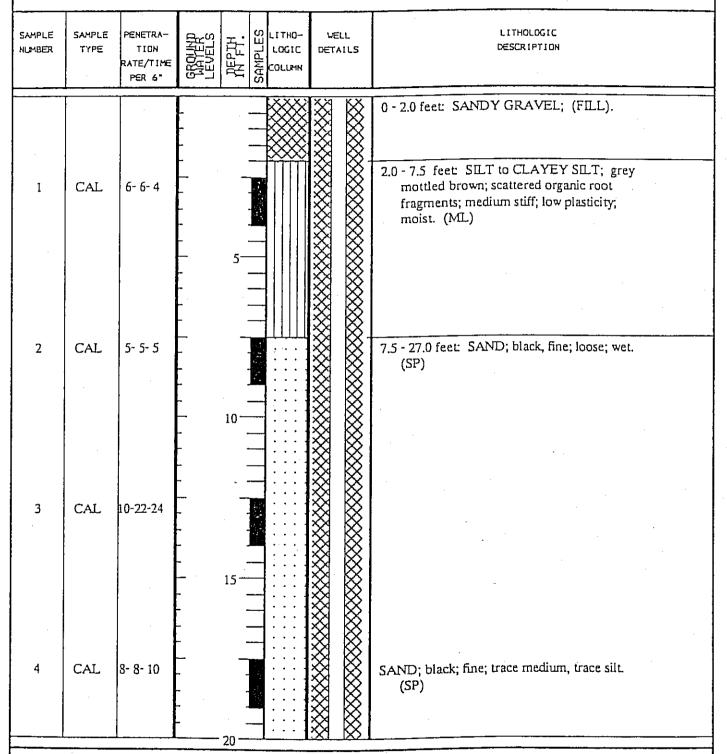
REFERENCE ELEV. TOTAL DEPTH

DATE COMPLETED

51.50" 6/21/89

DRILL METHOD LOGGED BY

4" ID HSA K. Lakey



REMARKS

594-17 N1 CROSE CUE 04/30/89

PROJECT NAME LOCATION DRILLED BY

Chempro - Crosby and Overton

(see figure) P.T.L.

DRILL METHOD LOGGED BY

4" ID HSA K. Lakey

BORING NO.

PAGE

MW- 7D 2 OF 3

REFERENCE ELEV.

TOTAL DEPTH

51.50 6/21/89

LO	GGED B	Y K	Lakey	·		DATE COMPLETED 6/21/89
SAMPLE NUMBER	SAMPLE TYPE	PENETRA- TION RATE/TIME PER 6-	GROWN LEVELS NFPIH	SAMPLES TITHO-	WELL DETAILS	LITHOLOGIC DESCRIPTION
5	CAL	4- 6-10	25-			2 inch silt lense.
6	CAL	6- 8-14				27.5 - 30.0 feet: SILT; grey; organic fragments; low plasticity; some bedding; soft to medium stiff; moist. (SP)
7	CAL	9-24-50	30			30.0 - 51.5 feet: SAND; black; fine to medium, trace coarse; 1 inch silt lense; dense; wet. (SP)
			35 — — — — — — — — —			





594-17 01 CROSE C IF 06/30/89

LOG OF EXPLORATORY BORING PROJECT NAME Chempro - Crosby and Overton BORING NO. MW-7D LOCATION (see figure) PAGE 3 OF 3 DRILLED BY P.T.L. REFERENCE ELEV. DRILL METHOD 4" ID HSA TOTAL DEPTH 51.50 LOGGED BY K. Lakey DATE COMPLETED 6/21/89 SAMPLE SAMPLE PENETRA-SAMPLES LITHO-WELL LITHOLOGIC NUMBER TYPE TION LOGIC DETAILS DESCRIPTION RATE/TIME COLUMN PER 6" 8 CAL 20-21-21 9 CAL 10-24-39 50.0 - 51.5 feet: SAND; black; very fine, trace medium, trace silt; thinly bedded (1/16 to 1/8 inch): dense: wet. (SP) Boring terminated at 51.5 feet.



REMARKS .

60

MEET-EDVARDS/EHCON

PROJECT NAME LOCATION DRILLED BY

Chempro - Crosby and Overton

(see figure) P.T.L.

BORING NO. PAGE

MW-8 1 OF 1

REFERENCE ELEV. TOTAL DEPTH

16_50'

DRILL METHOD 4" ID HSA LOGGED BY K. Lakey

	K. Lakey	DATE COMPLETED 6/16/89
SAMPLE SAMPLE NUMBER TYPE	PENETRA- TION RATE/TIME PER 6- STATE SULITHO- VELL LOGIC DETAIL SU COLUMN	LITHOLOGIC DESCRIPTION
2 CAL	2-10-15	0.25 - 50 feet: SANDY CDANTY (FIN)

REMARKS



PROJECT NAME LOCATION

Chempro - Crosby and Overton

(see figure) P.T.L. BORING NO. PAGE MW- 9 1 OF 1

DRILLED BY DRILL METHOD LOGGED BY

4" ID HSA K. Lakey REFERENCE ELEV. TOTAL DEPTH DATE COMPLETED

16.50' 6/14/89

FOGGED		Lakey			
SAMPLE SAMPLE NUMBER TYPE	PENETRA- TION RATE/TIME PER 6"	GROPHY LEVELS RFPH.	SAMPLES COTOTA FILED FI FILED FI FILED FILED FILED FILED FILED FILED FILED FILED FILED FILED FID	WELL DETAILS	LITHOLOGIC DESCRIPTION
					0 - 0.25 foot: ASPHALT. 0.25 - 2.0 feet: SANDY GRAVEL (Fill); dark grey brown; fine to coarse; dense; moist.
1 CAL	21-14-12	 			(GP) 2.0 - 9.0 feet: GRAVELLY SAND; dark grey; medium, trace fine; gravels fine; medium dense; moist. (SP)
2 CAL	2-5-12	10			9.0 - 15.0 feet: CLAY; dark grey; medium plasticity; soft to medium stiff; wet. (CL)
3 CAL	5-6-8	- 15			15.0 - 16.5 feet: SILTY CLAY; dark grey, trace fine sand; slight to medium plasticity; stiff; wet. (CL) Boring terminated at 16.5 feet.
		<u> </u>			



REMARKS

SVEET-EDVARDS/FMCON

594-17 D1 CROSB C IF D6/3D/89

PROJECT NAME LOCATION DRILLED BY Chempro - Crosby and Overton

(see figure)
P.T.L.

BORING NO.

PAGE

MW-10 1 OF 1

REFERENCE ELEV. TOTAL DEPTH DATE COMPLETED

16**.**50' 6/14/89

DRILLED BY P.T.L.

DRILL METHOD 4" ID HSA

LOGGED BY K. Lakey

SAMPLE SAMPLE PENETRA-SAMPLES 쨞됐 LITHO-YELL LITHOLOGIC NUMBER TYPE TION LOGIC DETAILS DESCRIPTION RATE/TIME CDLUMN PER 6" 0-3 inches: ASPHALT. 3 inches - 2.0 feet SANDY GRAVEL (Fill); olive brown; medium; trace fine; dense; moist. CAL 1 15-16-18 2.0 - 9.0 feet: GRAVELLY SAND; dark grey, medium, trace fine; medium dense; moist. (SP) 2 CAL 18-17-12 9.0 - 14.0 feet: CLAYEY SILT; olive grey; fine; soft to medium stiff; wet. (ML) 3 CAL 2-2-5 14.0 - 16.5 feet: SAND; dark grey; fine; loose; wet. (SP) 4 CAL 7-5-3 Boring terminated at 16.5 feet. 20





SVEET-EDVARDS/FMCON

PROJECT NAME LOCATION **DRILLED BY**

DRILL METHOD

LOGGED BY

Chempro - Crosby and Overton

(see figure) P.T.L.

4" ID HSA A. Udaloy

BORING NO.

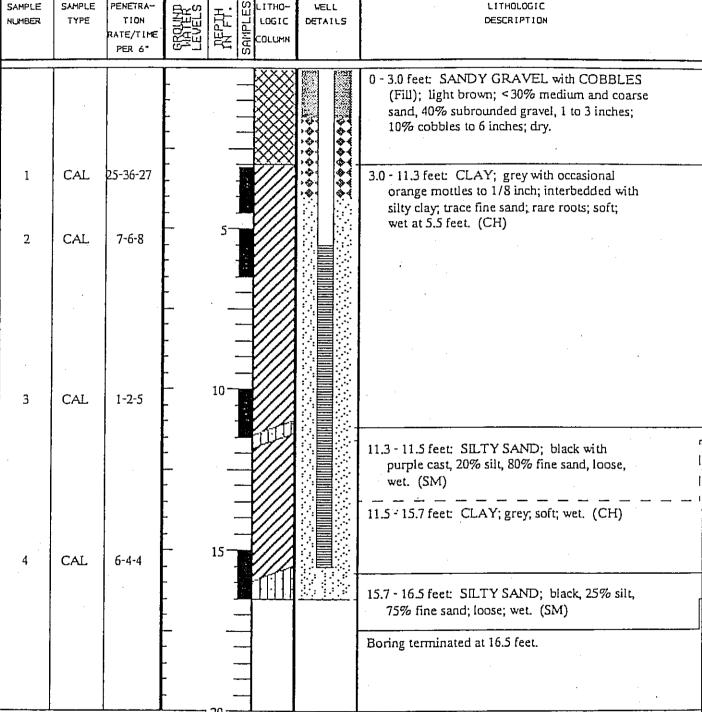
PAGE

MW-11 1 OF 1

REFERENCE ELEV. TOTAL DEPTH DATE COMPLETED

16.50" 6/23/89

PENETRA-SAMPLE WELL LITHOLOGIC TYPE TION LOGIC DETAILS DESCRIPTION



REMARKS



PROJECT NAME LOCATION DRILLED BY

DRILL METHOD

LOGGED BY

Chempro - Crosby and Overton (see figure)
P.T.L.

4" ID HSA A. Udaloy

BORING NO.

PAGE

DATE COMPLETED

REFERENCE ELEV. TOTAL DEPTH

16.50' 6/26/89

MW-12

1 OF 1

SAMPLE TYPE TYPE TYPE TYPE TYPE TYPE TYPE TYPE	10	GGED B	1 A	- Udaloy	′	·	DATE COMPLETED 6/26/89
(Fill); light brown; 30% medium and coarse sand, 60% subrounded gravel 1 to 3 inches; 10% subrounded cobbles to 8 inches. (GW-SW) CAL 4-6-6 5.0 - 6.0 feet: INTERBEDDED CLAY and SANDY SILT; clay; beds 1 to 4 inches; sandy silt beds 1/2 to 1 inch. Grey with orange mottles to 1/4 inch, organic root fragments, soft, low plasticity, moist. (CL/ML) CAL 3-8-15 CAL 3-8-15 10 11.0 - 15.0 feet: CLAY; grey, massive, brown mottles to 1/4 inch, soft, low plasticity, moist. (CL) 11.0 - 15.0 feet: SAND; black with purple case, 90% fine sand; <10% silt, loose, wet. (SP)		1	TION RATE/TIME	GROLEN LEVELS	NEPTH.	LITHO- LOGIC	
mottles to 1/4 inch, soft, low plasticity, moist. (CL) 11.0 - 15.0 feet: SAND; black with purple case, 90% fine sand; <10% silt, loose, wet. (SP) 4 CAL 8-6-15 15.0 - 16.5 feet: INTERBEDDED SAND and SILTY SAND black with purple cast, 20% silt, 80% fine sand, loose, wet. (SP/SM)	•			- - - - - - - -	5		(Fill); light brown; 30% medium and coarse sand, 60% subrounded gravel 1 to 3 inches; 10% subrounded cobbles to 8 inches. (GW-SW) 5.0 - 6.0 feet: INTERBEDDED CLAY and SANDY SILT; clay, beds 1 to 4 inches; sandy silt beds 1/2 to 1 inch. Grey with orange mottles to 1/4 inch, organic root fragments.
4 CAL 8-6-15 15.0 - 16.5 feet: INTERBEDDED SAND and SILTY SAND black with purple cast, 20% silt, 80% fine sand, loose, wet, (SP/SM)	3	CAL	3-8-15	- - - -	10		mottles to 1/4 inch, soft, low plasticity, moist. (CL) 11.0 - 15.0 feet: SAND; black with purple
	4	CAL	8-6-15	- - - -	15-		case, 90% fine sand; <10% silt, loose, wet. (SP) 15.0 - 16.5 feet: INTERBEDDED SAND and SILTY SAND black with purple cast, 20% silt, 80% fine sand, loose, wet. (SP/SM)
20	·			 5			





PROJECT NAME LOCATION DRILLED BY DRILL METHOD LOGGED BY

Chempro-Kent Kent, Washington Hokkaido D & D H.S. Auger Anne Udaloy

BORING NO. PAGE REFERENCE ELEV. TOTAL DEPTH

DATE COMPLETED

MW-13 1 OF 2 27.10 16.50' 2/25/90

AMPLE UMBER	SAMPLING METHOD	BLOW COUNTS	AROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	COLUMN	WELL DETAILS	
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SAMPLE HUMBER	SAMPLING HETHOD	BLOW COUNTS	GROUND WATER LEVELS	DEPTH IN FT.	LITHO- LOGIC	WELL DETAILS	LITHOLOGIC DESCRIPTION
1	G						0 - 0.3 feet: ASPHALT. 0.3 - 4.5 feet: SANDY GRAVEL with COBBLES (GW), medium olive gray, fine to coarse gravel, fine to coarse sand, trace non-plastic fines, dry to 2.5 feet, moist below 2.5 feet, compacted. (FILL)
2	SB	22-23- 16	_	ب- بنس- 5 بد <u>ش</u>			4.5 - 6.4 feet: SILTY SAND (SM), medium olive gray, fine sand, trace clay, low plasticity fines, wet. (ALLUVIUM)
3	SB	12-5-6	F - -	د د د			6.4 - 9.5 feet: SANDY SILT (ML), light olive gray, trace fine sand, firm to stiff, low to
4	SS.	2-3-3	- - -				medium plasticity, moist to wet. Very thinly laminated. Abundant orange mottles to 7.5 feet, abundant orange-brown concretions to
5	SS	5-4-4	- - -	10 —			1/4-inch diameter from 7.5 to 8.8 feet. (ALLUVIUM) 1 @ 8.8 - 9.0 feet: sandy silt.
6	SS	2-4-10	-	- -			19.5 - 10.5 feet: SANDY SILT (ML), dark gray,
7	SS	1-3-3	- - -	- 			(ALLUVIUM) (10.5 - 11.3 feet: CLAYEY SILT (MH), light
8	SS	2-2-3	- - -	•			olive gray, firm, medium plasticity, wet. (ALLUVIUM)
9	SS	2-3-5	 - -	15 -			11.3 - 14.3 feet: SILTY SAND (SM), grayish black, fine to medium, non-plastic fines, loose, wet. Gradational lower contact. (ALLUVIUM)
			- - - - -	20 -			14.3 - 15.7 feet: SILT (ML), medium olive gray, trace clay, trace fine sand, firm, low plasticity, wet. Trace organic matter. Very thinly laminated. (ALLUVIUM)

1) See General Remarks. 2) Hammer weight: approximately 140 lbs. 3) T.O.C. = 26.83 feet. 4) Sample numbers are prefaced with "MW13-". 5) Stainless steel centralizers placed one foot below top of screen, and one foot above bottom of screen.

SWEET-EDWARDS/EMCON

\$94-16.04.CKENT.15/kk:5.06/04/90

PROJECT NAME LOCATION DRILLED BY DRILL METHOD LOGGED BY Chempro-Kent Kent, Washington Hokkaido D & D H.S. Auger Anne Udaloy BORING NO.
PAGE
REFERENCE ELEV.
TOTAL DEPTH

DATE COMPLETED

MW-13 2 OF 2 27.10' 16.50' 2/25/90

SAMPLE NUMBER	SAMPLING METHOD	BLOW COUNTS	GROUND WATER LEVELS	DEPTH IN FT.	COLUMN F COLUMN T LOGIC	WELL DETAILS	LITHOLOGIC Description
		_ 12	-	-			15.7 - 16.5 feet: SANDY SILT (ML), medium olive gray, fine sand, trace clay, firm, low plasticity, wet. Gradational upper contact. (ALLUVIUM) Total depth drilled: 15.5 feet. Interval sampled: 0 to 16.5 feet.
				25 —			WELL COMPLETION DETAILS: 0.3 - 5.0 feet: 2-inch schedule 40 PVC riser. 5.0 - 14.4 feet: 2-inch schedule 40 PVC with 0.020-inch slots. 14.4 - 15.2 feet: 2-inch schedule 40 PVC threaded end plug. 0 - 1.0 feet: concrete. 1.0 - 4.0 feet: Enviroplug medium bentonite chips. 4.0 - 15.5 feet: 10x20 Colorado Silica Sand.
		:					
			- - - - - - - - -	35			



REMARKS
1) See General Remarks. 2) Hammer weight: approximately 140 lbs. 3) T.O.C. = 26.83 feet. 4) Sample numbers are prefaced with *MW13-*. 5) Stainless steel centralizers placed one foot below top of screen, and one foot above bottom of screen.

PROJECT NAME LOCATION DRILLED BY DRILL METHOD Chempro-Kent Kent, Washington Hokkaido D & D H.S. Auger Anne Udaloy

BORING NO. PAGE REFERENCE ELEV.

MW-14 1 OF 2 27.70

TOTAL DEPTH DATE COMPLETED 15.50' 2/23/90

	GED BY		ine Uda	loy			DATE COMPLETED 2/23/90
SAMPLE NUMBER	SAMPLING METHOD	BLOW	GROUND WATER LEVELS	DEPTH IN FT.	LITHO- LOGIC	1 1	LITHOLOGIC DESCRIPTION
1	G		-	-			0 - 0.6 feet: CONCRETE. 0.6 - 4.5 feet: SANDY GRAVEL with COBBLES (GW-GM), grayish brown, fine to coarse gravel, fine to coarse sand, trace boulders to 14 inches diameter, dry, compacted. (FILL)
2	SB	18-19-4	- - -	5—			yellow brown to grayish brown, fine to medium sand, trace plastic fines, firm to stiff, low to medium plasticity, wet. Sand
3	SB	7-19-31	- - -		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		content increases downhole. (ALLUVIUM) @ 7.0 - 7.5 feet: moderate yellow brown silt with abundant organic matter (roots and
4	SS	2-4-6	<u>-</u>				grasses) @ 8.0 - 9.5 feet: abundant organic matter (very fine roots).
5	SS	3-6-5 7-10-6	-	10 -			11.0 - 11.9 feet: CLAYEY SILT (MH), light olive gray with tan streaks, trace fine sand,
6	SS	4-5-4	- - -	· .			soft, medium plasticity, wet. (ALLUVIUM) 11.9 - 14.0 feet: SAND (SP), black, fine to medium, trace fines, loose to medium dense,
7	ss	4-8-14	-	15 ·			wet. (ALLUVIUM) 1-@ 12.4 - 12.8 feet: light olive gray clayey silt.
			-	20			14.0 - 15.5 feet: SILTY SAND (SM), brownish black, fine to medium, non-plastic fines, medium dense, wet. (ALLUVIUM) Total depth drilled: 15.5 feet. Interval sampled: 0 to 15.5 feet.

1) See General Remarks. 2) Hammer weight: approximately 140 lbs. 3) T.O.C. = 27.30 feet. 4) Sample numbers are prefaced with "MW14-". 5) Stainless steel centralizers placed one foot below top of screen, and one foot above bottom of screen.

PROJECT NAME LOCATION DRILLED BY DRILL METHOD LOGGED BY Chempro-Kent Kent, Washington Hokkaido D & D H.S. Auger Anne Udaloy BORING NO.
PAGE
REFERENCE ELEV.
TOTAL DEPTH

DATE COMPLETED

MW-14 2 OF 2 27.70' 15.50' 2/23/90

AMPLING HETHOO	BLOW	GROUND WATER LEVELS	DEPTH IN FT.	COLUMN	WELL DETAILS	LITHOLOGIC DESCRIPTION
			25 —			WELL COMPLETION DETAILS: 0.4 - 5.5 feet: 2-inch schedule 40 PVC riser. 5.5 - 14.8 feet: 2-inch schedule 40 PVC screen with 0.020-inch slots. 14.8 - 15.7 feet: 2-inch schedule 40 PVC threaded end plug. 0 - 1.0 feet: concrete. 1.0 - 3.5 feet: Enviroplug medium bentonite chips. 3.5 - 15.5 feet: 10x20 Colorado Silica Sand.



REMARKS
1) See General Remarks. 2) Hammer weight: approximately 140 lbs. 3) T.O.C. = 27.30 feet. 4) Sample numbers are prefaced with "MW14-". 5) Stainless steel centralizers placed one foot below top of screen, and one foot above bottom of screen.

PROJECT NAME LOCATION DRILLED BY DRILL METHOD Chempro-Kent Kent, Washington Hokkaido D & D H.S. Auger Anne Udaloy BORING NO. MW-15
PAGE 1 OF 2
REFERENCE ELEV. 2430'
TOTAL DEPTH 15.50'
DATE COMPLETED 2/22/90

FOC	GED BY	An	ne Uda	loy				
SAMPLE NUMBER	SAMPLING METHOO	BLOW COUNTS	GROUND WATER LEVELS	DEPTH IN FT.	S LITH LOG COLL	1C D	WELL ETAILS	LITHOLOGIC DESCRIPTION
1 2 3 4 5 6 7	SB SS SS SS SS SS	7-9-12 5-3-2 1-2-2 2-2-2 1-3-4 1-2-3		· · · · · · · · · · · · · · · · · · ·				0-3.5 feet: SANDY GRAVEL with COBBLES (GW-GM), light tan to light gray, fine to coarse gravel, fine to coarse sand, non-plastic fines, trace boulders, moist, compacted. (FILL) 3.5-5.5 feet: SILT (ML), light olive gray with tan streaks, trace clay, trace fine sand, stiff, low to medium plasticity, moist to 4.5 feet, wet below 4.5 feet. Trace organic material from 4 to 5 feet. Clay content increases downhole, gradational lower contact. (ALLUVIUM) 5.5-8.5 feet: SILT (ML), medium olive gray, trace clay, trace fine sand, soft, medium plasticity, wet. Trace organic material (leaves, twigs). Thinly laminated. (ALLUVIUM) 8.5-9.3 feet: SANDY SILT (ML), grayish black, fine sand, soft, low plasticity, wet. Very thinly laminated. (ALLUVIUM)
9	SS	1-3-6		1.5				10.8 - 14.0 feet: SANDY SILT (ML), grayish black, line sand, soft to firm, low to medium plasticity, wet. Thinly laminated beds to 1-1/2-inch thick, interbedded with medium olive gray silt which is very thinly laminated in beds to 1/2-inch thick. (ALLUVIUM) 14.0 - 15.5 feet: SILT (ML), medium olive gray, trace clay, trace fine sand, firm, low to medium plasticity, wet. Very thinly laminated. (ALLUVIUM)

1) See General Remarks. 2) Hammer weight: approximately 140 lbs. 3) T.O.C. = 27.15 feet. 4) Sample numbers are prefaced with "MW15-". 5) Stainless steel centralizers placed one foot below top of screen, and one foot above bottom of screen.

SWEET-EDWARDS/EHCON

\$94-16.04.CKENT.15/kk:5.06/04/90

PROJECT NAME LOCATION DRILLED BY DRILL METHOD LOGGED BY

Chempro-Kent Kent, Washington Hokkaido D & D H.S. Auger Anne Udaloy

BORING NO.
PAGE
REFERENCE ELEV.
TOTAL DEPTH
DATE COMPLETED

MW-15 2 OF 2 24.30' 15.50' 2/22/90

	T T	- · 					DATE CONFLETED 2/22/90
SAMPLE NUMBER	SAMPLING METHOO	BLOW	GROUND WATER LEVELS	IN FT.	LITHO- LOGIC COLUMN	WELL DETAILS	LITHOLOGIC DESCRIPTION
			- 30				Total depth drilled: 15.5 feet. Interval sampled: 0 to 15.5 feet. WELL COMPLETION DETAILS: +2.9 - 0 feet stickup: 2-inch schedule 40 PVC. 0 - 5.4 feet: 2-inch schedule 40 PVC riser. 5.4 - 14.3 feet: 2-inch schedule 40 PVC screen with 0.020-inch slots. 14.3 - 14.7 feet: 2-inch schedule 40 PVC threaded end plug. 0 - 1.0 feet: concrete. 1.0 - 3.8 feet: Enviroplug medium bentonite chips. 3.8 - 15.5 feet: 10x20 Colorado Silica Sand.
		-	40 -			<u>.</u>	



1) See General Remarks. 2) Hammer weight: approximately 140 lbs. 3) T.O.C. = 27.15 feet. 4) Sample numbers are prefaced with "MW15-". 5) Stainless steel centralizers placed one foot below top of screen, and one foot above bottom of screen.

REMARKS

PROJECT NAME LOCATION DRILLED BY DRILL METHOD LOGGED BY

Chempro-Kent Kent, Washington Hokkaido D & D H.S. Auger Anne Udaloy

BORING NO. **PAGE** REFERENCE ELEV. MW-16 1 OF 4 26.701 51.50'

TOTAL DEPTH DATE COMPLETED

3/7/90

	,		,			· · · · ·	
SAMPLE NUMBER	SAMPLING METHOD	BLOW COUNTS	GROUND WATER LEVELS	DEPTH IN FT.	COLUMN FOGIC FOGIC FILHO-	WELL DETAILS	LITHOLOGIC DESCRIPTION
	6						0 - 0.3 feet: ASPHALT
1	G	, .	- - - - -	-			0.3 - 5.5 feet: SANDY GRAVEL (GW-GM), moderate yellow brown to light gray, fine to coarse gravel, fine to coarse sand, non-plastic fines, trace cobbles, dry to 0.5 feet, compacted. (FILL)
2	SB	37-50 - 31	-				5.5 - 7.0 feet: SILTY SAND (SM), black, fine to medium, non-plastic fines, medium dense to
3	SB	6-7- 15	- -	-			dense. (ALLUVIUM) 7.0 - 10.5 feet: CLAYEY SILT (ML), medium olive gray, trace line sand, soft, medium
4	SB	6-4-4	-				plasticity. Orange mottles and streaks to 9.8 feet. (ALLUVIUM) @ 8.0 to 9.8 feet: some fine to coarse
5	SB	5-10- 20	- - -	10 -			subrounded gravel. 10.5 - 14.6 feet: SILTY SAND (SM), black, fine
6	SB	10-11- 9	- -		Ž		to medium, loose to medium dense. (ALLUVIUM)
7	SS	2-3-6	- -	-			
8	SS	6-4-3	- -	15 —			14.6 = 16.7 Teet: "CLAYEY SILT (MH), Tight"
9	SS	4-2-8	- -				Trace brown organic matter (grasses). Very thinly laminated. (ALLUVIUM)
12	SS	7-14- 17	- - -	-			16.7 - 25.5 feet: SAND (SP), black, fine to medium, trace fines, loose to medium dense. Gradational lower contact. (ALLUVIUM)
11	SS	5-2-2	- - -	- 20 -			Oracacional iovo: compact (-222-1-2-1)
				20			



1) See General Remarks. 2) Hammer weight: approximately 300 lbs. 3) T.O.C. = 26.00 feet. 4) Sample numbers are prefaced with "MW16-". 5) Water added below 0.5 feet during drilling. 6) Stainless steel centralizers placed 0.5 foot below top of screen, and 0.5 foot above bottom of screen.

PROJECT NAME LOCATION DRILLED BY DRILL METHOD LOGGED BY Chempro-Kent Kent, Washington Hokkaido D & D H.S. Auger Anne Udaloy BORING NO. MW-16
PAGE 2 OF 4
REFERENCE ELEV. 26.70'
TOTAL DEPTH 51.50'
DATE COMPLETED 3/7/90

	ء ط طعاب ر						,	
SAMPLE NUMBER	SAMPLING METHOD	COUNTS	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	COLUMN LOGIC	WELL DETAILS	LITHOLOGIC DESCRIPTION
	SS	3-5-11			1	;::::::	***	16.7 - 25.5 feet: See description on preceding
12	33)-1.r	 -		-		₩ ₩	page.
13	SS	3-3-6	- - -	_				@ 20.7 - 20.8 feet: mostly fine to medium sand @ 20.8 - 20.9 feet: light olive gray silt.
14	SS	3-4-14	- - -					
15	SS	8-7-11	- 	25 -		TTT		@ 25.2 - 25.5 feet: thin laminae of silt and organic matter (grasses).
16	SS	7-5-4	 - -		-			25.5 - 27.2 feet: SANDY SILT (ML), light olive
17	SS	4-6-5	-	-	Ī			plasticity. (ALLUVIUM) 27.2 - 28.4 feet: SILT (ML), light olive gray to
18	SS	5-3-14	-	30 -				light brown, soft, low plasticity. Abundant dark brown organic matter (leaves, twigs). Occasional very thin sand interbeds.
19	SS	3-3-10	- - -]			(ALLUVIUM) 28.4 - 31.0 feet: SILT (ML) light olive gray
20	SS	10-11-	- - -					with white and grayish green mottles, trace clay, trace fine sand, firm, low plasticity. (ALLUVIUM)
21	SB	20-42-	- - -		بد بد بد	3		- @ 30.2 - 30.5 feet: black sand. 31.0 - 39.2 feet: SAND, black, fine to medium,
22	SB	27-25-	- - -	35	- 	†		trace fines, medium dense. (ALLUVIUM) @ 33.0 feet: trace wood fragments. @ 33.8 feet: abundant grasses and wood
23	SS	9-12-	<u> -</u>					fragments @ 34.5 - 34.7 feet: fine to coarse sand underlain by thin silt bed.
24	SS	8-4-3	<u> </u>		j			@ 35.0 - 36.0 feet: occasional very thin light olive gray silt laminae @ 36.0 - 36.5 feet: trace coarse sand.
25	SS	3-2-2		<u></u> ar) - -			
25	SS	3-2-2		<u> </u>	زر			



REMARKS
1) See General Remarks. 2) Hammer weight: approximately 300 lbs. 3) T.O.C. = 26.00 feet. 4) Sample numbers are prefaced with "MW16-". 5) Water added below 0.5 feet during drilling. 6) Stainless steel centralizers placed 0.5 foot below top of screen, and 0.5 foot above bottom of screen.

PROJECT NAME LOCATION DRILLED BY DRILL METHOD Chempro-Kent Kent, Washington Hokkaido D & D H.S. Auger Anne Udaloy

BORING NO. MW-16 3 OF 4 **PAGE** REFERENCE ELEV. 26.70 TOTAL DEPTH 51.50' DATE COMPLETED 3/7/90

	GED BY		ine Uda				DATE COMPLETED 3/7/90
SAMPLE NUMBER	SAMPLING METHOO	BLOW	GROUND WATER LEVELS	DEPTH IN FT.	LITHO- LOGIC	DETAILS	LITHOLOGIC DESCRIPTION
	!						39.2 - 44.8 feet: CLAYEY SILT (MH), light
26	SS	5-3-2	<u>-</u>				olive gray to grayish brown, firm to stiff, medium to high plasticity. Clay content decreases downhole. (ALLUVIUM) @ 41.5 - 42.5 feet: abundant brown organic
27	SS	4-3-8	-				matter (leaves).
28	SS	7-27- 30	- - -	45 —			@ 44.0 - 44.8 feet: trace organic matter (grasses).
29	SS	10-18- 24	- -				44.8 - 45.2 feet: SILTY SAND (SM), dark gray to black, fine, medium dense to dense, non-plastic fines. (ALLUVIUM)
30	SS	6-5- 14	-				45.2 - 46.8 feet: SANDY SILT (ML), light olive
31	SS	18-16- 16	- -				organic matter. (ALLUVIUM) 146.8 - 47.3 feet: SILTY SAND (SM), dark gray,
32	SS	8-5-4		50 —			fine, medium dense to dense, non-plastic fines. (ALLUVIUM)
			- - -	- 			47.3 - 51.5 feet: SANDY SILT (ML), medium olive gray, fine sand, soft to firm, low plasticity. Abundant silty sand interbeds. (ALLUVIUM)
			 - -	55 —			Total depth drilled: 50 feet. Interval sampled: 0 to 51.5 feet.
			<u> -</u>				
				_			
			<u> </u>	 60 -			



REMARKS
1) See General Remarks. 2) Hammer weight: approximately 300 lbs. 3) T.O.C. = 26.00 feet. 4) Sample numbers are prefaced with "MW16-". 5) Water added below 0.5 feet during drilling. 6) Stainless steel centralizers placed 0.5 foot below top of screen, and 0.5 foot above bottom of screen.

PROJECT NAME LOCATION DRILLED BY DRILL METHOD LOGGED BY Chempro-Kent Kent, Washington Hokkaido D & D H.S. Auger Anne Udalov BORING NO. PAGE REFERENCE ELEV.

MW-16 4 OF 4 26.70' 51.50' 3/7/90

H.S. Auger	TOTAL DEPTH
Anne Udaloy	DATE COMPLETED

SAMPLE SAMP NUMBER MET	BLOW BLOW	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	COLUMN FOGIC	WELL DETAILS	LITHOLOGIC DESCRIPTION
		- - - - -	65				WELL COMPLETION DETAILS: 0.7 - 33.3 feet: 2-inch schedule 40 PVC screen with 0.020-inch slots. 38.3 - 38.5 feet: 2-inch schedule 40 PVC slip cap. 0 - 2.0 feet: concrete. 2.0 - 4.0 feet: Enviroplug medium bentonite chips. 4.0 - 28.3 feet: Pure Gold bentonite grout. 28.3 - 31.7 feet: Enviroplug medium bentonite chips. 31.7 - 40.3 feet: 10x20 Colorado Silica Sand. 40.3 - 50.0 feet: Enviroplug medium bentonite chips.



REMARKS

1) See General Remarks. 2) Hammer weight: approximately 300 lbs. 3) T.O.C. = 26.00 feet. 4) Sample numbers are prefaced with "MW16-". 5) Water added below 0.5 feet during drilling. 6) Stainless steel centralizers placed 0.5 foot below top of screen, and 0.5 foot above bottom of screen.

	PHILIP	SERV	/ICES		igraphy Field	Log	Location ID AW-17 Facility Kent Project Kent R.
	Drilling Method	ia/60	·	Flaid Geologist LOU LCIP Sampling Method SplitS			Soil Boring Only Well Test Pit Total Depth
	Depth of Sample (ft bgs)	Sample ID	Blaw Counts (per 6")	Total Organica (ppm)	Sample Recovery (inches)	Munsell Co	escription: Sample Interval, Unified Soil Class ID, clor, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.
	0.0'			Breathing Zone: In-Spoon: Headspace:	0-3"	Fill Fill	pha.l.t
4			5675	i .		51	ive gray, moist, soft
	- - - ∑5.ª	16			•	د ا	survetting silby sound
ن							Jank gray, wet orange spotting soft is the clay, well graded
9			00100	19,0	0-24	eolle	Same as(4-6,20-24) _ Very wet. 2 ct She (by
20			4 9 7	0.0	75% 6-12 12-24	ML SO V SM i	Lery wet, very soft to rounge spothing Dor K groy, vet, loose
12			3663	0.0	60%		same as (10-12) 12-24)
14	_			T0+	d D	gp4h	L4
٠ .	Geologist's	Signature	<u></u>	Date		wer	Date Pg of

Geologist's Signature

HILIP S	SERV	ICES	Soil Strat	igraphy Field I	Project Fart Cl Location Type:
TLT,	/∞		Loulard Sampling Method Split Spear		Soil Boring Only X Well Test Pit Total Depth Total Depth
Depth of	Sample 10	Blow Counts (per 6-1	Total Organics (ppm)	Sample Recovery (Inches)	Geological Description: Sample Interval, Unified Soil Class ID, Munsell Color, grain size, sorting, moisture, compaction, Indication of contaminants (odor or sheen), and general stratigraphic description.
(ft bgs)			Breathing Zone: In-Spoort: Headspace:		Asphalt
3%		38 50	53.7 7000	3-12"	GiP Poorly granded gravel, sand mixfure, sand -grave (coord) dry, 100>e, cobbles, light gray
-5 -		16 17 12	0.0	60'/. 5-12"	GP Same as above.
3 ¥ - -		3,33	5000 €. ○	2-12	Coarse sand wet Olive gray 1003e Organic matter-roots Increasing clays, lass sand
9/2	 		1		SHELBY TUBE
12.5		2	22 00	0-5	- M.7.
_] f				5-12	
			Tota	1 Rep	p44.15

	Drilling Method	SERV (29/00		Soil Stration Field Geologist LCULARC Sampling Method SplitSp		Location ID FI-W-1- Location ID FI-W-1- Facility Kevit Project Kevit-Ri Location Type: Soll Boring Only A WellTest Pit Total Depth
	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 67)	Total Organics (ppm)	Sample Recovery (Inches)	Geological Description: Sample Interval, Unified Soil Class ID, Munsell Color, grain size, sorting, moisture, compaction, Indication of contaminants (odor or sheen), and general stratigraphic description.
Z -	0.0'			Breathing Zone: In-Spoon: Headspace:	10°%	
)	 		4545	72500	0-4 1-17	Stuff-Sawdust Stive ona, dry, with ingutionical streaking, silt with fine sand low placeting siff me Med, in your - double with 15 of
4			72) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		-	menist, 3. (+ of fine sand - orange mankings, med - shift
+	_ 		3 4 3 3	71000	12-14 19-20 20-24	Sluft - Sandalist, grand Sm Silty Sand, dark gransbruch mai dense, Sm Silty Sand, dark granswet well gracial, medicience
				0.0		Sluft-gravel 5m same as 4-6,20-24 5m same as 4-6,20-24, brown-olive grave, increasing Fines. Ctal dark grave, moist, med plasticity med slift gilticlay y sine sands well graded collect shelly Tugg
8				sandy silt		with some of the figure

Date _

Geologist's Signature _

Raviewer

Deta () / () Drilling Method Depth of	HGA_	/ICES	Soil Stra Field Geologist LOCILA 2 Sampling Method Sp[I]S Total Organics	Sample	Geological De Munsell Co	Location ID
Sample (ft bgs)	Sample ID	(per 6*)	(ppm) Breathing Zone:	Recovery (Inches)	Indication	of contaminants (odor or sheen), and general stratigraphic description.
		9000	In-Spoore Headingson: 0.0 72000	10-14	SIN 0	sane scrept wet. (Mirecisins sound. NOSTLY SINE'S IMPRIMITE NOSTLY SINE'S IMPRIMITE ATK GIVEN, well gracked MILL BEAD SETT GRAY. 1005 E. WELL INCITACING SILL, WELL SOFT SANDYSILL, WELL SOFT
						Same as 10-12 (4-24).
		Tota	al Depith	13.5	1	

2

Geologist's Signature _____ Date _

								Location ID	NW-7 ()	-
					Soil Strat	igraphy Rold	Log	Facility .	Kent Kent	-
		HILIP	SERV	ICES				Project Location Type:		
1	Data				Lou LaRC	~. C \$		_ Soil Boring Or	wy 🛴 Well Test P	it
		10/25	\$/00		Sampling Method			Total Depth		
	D ₁ EE	ng Method	. ^	·	Split Spe	700				
•		HS	<u> </u>		2	Sample		alac orbits \$178. MG	Interval, Unified Soil rding, moisture, comp	account,
		Jepth of Sample (fr. bgs)	Sample ID	Blow Counts (per 6")	Total Organica (ppm)	Recovery (Inches)	Indication	of contaminants stratigraphic	(odor or sheen), and (description.	general
	-	0.0'			Breathing Zone: in-Spoort: Headspace:	34	l	phalt		
31	4-			e		WA	Fill			
		·		2		1:0%	 Fill			
	4	-	MW-20-404 MM-7	2345	0.0	2-2	121 (1	م باء مجا	·CF .dowk	
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						90%				
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		-		5	0.5	12-6	CL	ريز 4 أكانيو	ne as(Alu) H	7*)
(-		-	5		6-87	Li	hard, co	ingestrack	رن اــــــــــــــــــــــــــــــــــــ
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	3		 		.v.A	0%	Attain	+ 40 colons	+ sheiby i	
- %	10			77.70		100%	101			
		_	INW-ZE SCREEN	1	0.0	ローに	SE VE	sed not	tark gray sand ne sand, s	•
		_			0.0	7 15	15251=	rma, Seu	savd.	7
	-	-				112-23	Small	۲۰	: ک کمین مین	H +11;
-	-		1				5C	Moist , m	Are and all	
			. [1	•		
	., [1 11-	0L 1=0 C=1	Lect SHEI	RYTURE
-	12-				\		Atten	4r-300	-CU 3HE	
	}	 .								
•	14	·		-			.	<i>t</i>		
	11		1/2	lad De	phy Z'	}				•
	. }		1		V		1			
!	Į						inver		Date P	1 1 1
1 7		Geologist	's Signature		Date		viewer			

			·				Location ID MW-21
				Soil Strati	igraphy Held	Log	Facility KPINT RI
ľ	HILIP	SERV	ICES			Tawan	Location Type:
F	ata	7/14/	00	Field Geologist LO(1, L-0_R)	USCN 1	Magulan	Soil Boring OnlyXWed Test Pit Total Depth
2	Hilling Method	ect dece	څک	Split Special	2/2	'i'd	escription: Sample Interval, Unified Soil Class ID,
-	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organica (ppm)	Sample Recovery (Inches)	Geological D	escription: Sample description, moisture, compaction, olor, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.
	0.0'			Breathing Zone: In-Spoon: Headspace:	` ·	Fi	
		MAX-0000 WAX-0000	9	7.0 31.00	0-17	SM W:	oist, Organic mailter-rackety by Someon an outside.
		Ris Ris IPH-D PH Critic Cranda Poter while	12			ls Si	lack sandy. under, with silt, well raded
		Allo-ZI-SP OCOU less TOOL G Suck	4 8	0.0	100%	1 (X) (et. Olive gray with light rown-orange strenking. Adicum stiff. Organic matter
	_	TPH-D TOTAL WARE CAL CH CHAVIDE	1			1	ols I aq . no s It, no Sand.
						-	
,	_		14 30 45	57.5	0-17	JW M	oist, Darkgiay, loose ill graded, sand thre mod) Hie to no time silt, clays
5					100%	@ w	same as (10-11-5,0-12")
,	12.5		12 13 45	63	6-12		Decreasing fines. Furesand.
	140			Date	Rev	viewer	Date 7/14/60Pg of
	Geologist	's Signature					

101 Depth 15.0

			2	C-7 51	ligraphy Field	Location ID MW-22 Log Facility K-En-1
	PHILIP	SERV	ICES	300 3040	ngrapiti i iain	Project
	Date Of Drilling Method	29/x	D	Field Geologist Sampling Method	Rosa	Location Type: Soil Boring Only A Well Test Pit Total Depth
	ا	15A_	·	Split-Spa	∞	Geological Description: Sample Interval, Unified Soil Class ID,
	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (Inches)	Munsell Color, grain tiza, sorting, moisture, compaction, Indication of contaminants (odor or sheen), and general stratigraphic description.
	0.0*			Breathing Zone: In-Spoon: Headspece:		Fill
2			Q 8 4	0.0	76% 0-2 2-14	Fill SM Light brownfoline grant Drd well granted, en silvent Silly sand inselvence Silly sand inselvence Silly sand inselvence Al clease - soft
						St Light brown of spettoes -
f 12	<u>T</u>		2235	0.0 51.5	2-24	SE same as 2-4,14-13', loose SE same oringe streaking. SE same oringe streaking. HE moist wet at 12" Gray Medium stiff claret sand Silt
<i>6</i>			4568	0.0	80% 4-6 6-24 22-24	Sluff ML Same. Very wet. Sm. aray. very wet, Silfy sand. Sm. wostly cines. soft. well enacted.
8						Collect Shelly TUBE
,			1134	28.1	5090 10-14	sm yellowish or ange - light gray, scoperact welthradel vay suft. Silty sand.
12					14-24	Sin dark gray wet soft. Sity
•			47-54	0.0	50%	Same as 10=12, more sand.
14	Geologist's	Signature _		Date	Ravie	wer Date Pg of

· · · ·							Location ID MW-Z3 Facility K-ent
	IILIP S		ICES		graphy Field L	-og	Project
Data		7/00)	Feld Geologist Loula R	Losa		Soil Boring Only Well Test Pit Total Depth
Drillin	mited.	tocesse	Light A	Sampling Method Spl: H-Spm		Geological D	S Interval Unified Soil Class ID,
De S	epth of	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (Inches)	Munsell C indication	olor, gran aus, such of contaminants (odor or sheen), and general stratigraphic description.
F	0.0'			Breathing Zone: In-Spoon: Headspace:		Asph	ialt
	-	<u> </u>		-5.7	5%	2:11	
	. 1	WAT WAT	Į.	5.7	5%	55	rds, gratetly sand. itter sand and gravel ith silt, moist, dark your, lease, cobbles, organic black matter.
-	3.5	37°00	12 /3	0.0	75%	SMC	Layey Sands, moist Lart brown, loose med dense, gravel mixedia. organic matter same as (5,0-6)
	6.5 7.5	mN-Z)= 5CR mN-A-1 0400	چڑط	8.0 7200	1009.	Sm	game no gravel increasing fines moist mode suff.
D.	9	ms/ms	5		3-12	CL	inorganic clas. Stilf. Olive gray. dep-moists red streaking on orterde and in nell graded.
١,	-		12	136	0-17	za ml	olive gray wet soft _ inorganic silt stine sand, eta-some clay
	17.5		15	72000	0-0	7" ML	Same ab (0-11-5, 0-12)
	Geologis	t's Signatu	re	Date	e F	Reviewer	Date Pg ol

PHILIP	SER	/ICES	Soil Stra	Ugraphy Fiek	i Log	Location ID Facility Project	MW-2 Kent		
Deta	<u> </u>		Held Geologist Lou La 20	<u>-</u> -a		Location Type: Soil Boring (Only 1/2 Well	Test Pir	
	7/00		Sampling Method		<u>. </u>	Total Depth			
Grating Method	imiled	Acess		<u> Σ</u> ΙΛ		1	5		
Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 5")	Total Organics (ppm)	Sample Recovery (inches)	Munsell Co	ascription: Samplescription: Samplescription: Samplescription, grain size, so of contaminants strattgraphi	orting, moisture	s, compaction,	ID,
0.0	•		Breathing Zone: In-Spoon: Headspace:				·		
16- - - -/0.5		4.	0,0 t547	100% 0-12	CL Cla Bro Do	y. no si own fibe ork gray	rous ora	wedsl Janies	T.
_		_	Tolal D	epth	45	15-0			
						•	. ·		
									-
- -	., .		·						
				,	-				
			Date	Reviev		·	ate	Pg 7 of	_

			Soil Strat	Igraphy Field	Location ID W-24D Log Facility Kent
DHII (B	SERV	ICES			Project Kentr July Location Type:
6/28			Fleid Geologist LOU La	Rosa	Soil Boring Only / Well Test Pit
Dritting Method	N		Sampling Method Split S	5 000/0	
_	45.4	·	Dp117	î '	
Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (Inches)	Munsell Color, grain size, sorting, moisture, compaction, Indication of contaminants (odor or sheen), and general stratigraphic description.
0.0'			Breathing Zone: In-Spoon:	æ3°	Appliet
			Headspace:	3"-3"	CANCELIA Coboles, Loose
-		NA			proundy (fill)
3-3				7 -4	adiables loose sine
1-2		25	0.0	3	1,5,50,50 >000,9,50
<u> </u>	m	21	125	l .	brown impist.
1-1-1-5		19	26.1	2-3	GP Peorly Gracuel gravels, sand Luixtur, little fine 3, gray
150		7257		3-6-	mixtic, little tive 3, d
-		1 3	95-3		1. Maria mer
<u> </u>				6-9"	CL. Inorganie (clap, rachity, clive gray, silt plach ity, clive gray, silt webist
-					weist brown Soft
				19-1.2	Mul Enorgania, browsoft - Muist, etay sit where
·				12-19	uay (casase-9)
	į				1 Ingland Sandas 6-1)
	,			•	bery stiff Hard
6.0	1444-7-11	74	2 2.8	0-5	·WL
5	IM	中岛	Z Z 72000	6-8	CI vary slift, very moist
180		6	6	100010	of proof streets of since
	an		\$ 1601	0-12	ML wetvery sandy silt P.
10 Km	لتي ا	立	7 2315	12-2	of Cl very vet, used shift
+		4		100%	
<u></u>		1	4,2	0-24	Olive Grane, 200
		(5)	15.0		
42			Date	Re	viewer Date Pg of
Geologis	it's Signature				

300 lb hanner

r							Location ID	MW-24	<u>-D</u>	
				Soil Strat	tigraphy Field	Log	Facility	Kent	·	
1	S. S. S. S. S. S.			304 502	-gp7 114v-		Project			
	PHILIP	SERV	/ICES				Location Type:			
ŧ	Date	·		Field Geologist		•		SURY XWED -	Test Pit	
.	(0/	15/00					<u> </u>	- Д –		1
ļ	<u> </u>			Sampling Method		•	Total Depth			•
	Dritting Method						1			
:	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 5")	Total Organics (ppm)	Sample Recovery (Inches)	Manager C	Description: Sampl Color, grain size, so n of contaminants stratigraphi	orting, maisture,	compaction,	
,	0.0*			Breathing Zone:	1 3 4 5					1
12-			,	In-Spoon:	634"		_		· :- 	
1-			9	Headapace:	6-12	ML SO	Lucky Silty	scopy wet	- General is be	1220
	· ·		l	Ø.O			esc.C	5 0 1	9.14 Lives	7.00.7
ا			4562	231.	12-24	250,00	et, wate	scurd it	~a~s.1+_	-
19	k		Z		100%	5 W/ 3	عصوبهم سعط	r. Brown	quay _	
			2223	0.0	C-9	ي ت	scypy wed schooly s ame un	ilt Silv	و المحلاج مدرة	.[
	Γ		3	15.8	9-24	SYES	ume un	عدا لأردنية	. j. 60 -	-
10					100%	J, C	<u> </u>	4	2-1-1-	-
•	1		7	0.0	272	See See	مرسم.	5amelw	~~C/27. [2	7
	<u> </u>		10		, , , ,	5	مرصر المعارب	ر آره فرعته		-Richard
		ļ	19	10.6	12-24	5000 JA	1 5 1 5 La 1 5	2061 -	a rade of the	실
			23	'		1 277 7	معرب المحت		200	7
3	<u> </u>		<u> </u>		73 - 13	3	ray, we'll	graded ;	المراجعة الم	
			10	0.0	Porto		ine			
	 		6		12-244	5m 5	iandine!	er 20#+'T	Son gent her?	
		ļ	iz	7.0		l u	ell grad	عط, ولأبح	3:04/b10w	6
			17			1	60 25		٠,٠	_
20	7	<u> </u>	1		6-24	-82V =	sand w	St Bloc	Z-G-G-	
	1	1	17	0,0		0	eark dra	y mella	radea -	_
			15	100		<u> </u>	WERLINE.	2004ine	s	
		ł	l ri	1000		1	100 mm.			
			11 70		100%	.7.40	Sawea	5/201-77	6-21 4	_
22			6	0.0	0-24	3~	م ما ما المار	المد ملاء الما	7 24 7	
سان				l l			wet blac	- L SKULT L		7
	 -		1 1	261	100%		Lew Fil	as med	sand	[
,	1		- 	0.0	1 1	Sm	Laucat	s med me	+, olive & row	ŀ
24			_ ا	[U . U	0-6	١.	sandy	size sour	s wet	{
•	<u> </u>	İ	ל	261	4-12		اران ا	Vier Same	berpark llen	
4			<i>f</i>		12-24	34	ببرصيطته	Cibers, d	li~	
X	<u> </u>		1 7		42 2 F	1	weat stil	ec, Dark	aray u/.	
	1		1 t Z 5				dark bro	استربهرمازف	gray w/	
				. , ,			GNES	isitt		
	<u> </u>						1 -201m	•		
					\					
	H									
7	d	1		<u> </u>					_ 7 - 4	4
			· —— — · -··	Date	Revi	ewer		Date	Pg Z of S	-1
A	C 1!!	_ []								

-	•						44144727
	PHILIP	SERV	ICES	Soll Strat	dgraphy Field	Lag i	Facility Kent
	Date	28100		Field Geologist LOYLA COSC	~		Soil Boring Only 🛆 WellTest Pit
!	Drilling Method	<u> </u>		Sampling Method Sali + Si	70017		Total Depth 391
	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (Inches)	Managail Cale	scription: Sample Interval, Unified Soil Class ID, or, grain size, sorting, moisture, compaction, if contaminants (odor or sheen), and general stratigraphic description.
26	0.0*		10 60 17	Breathing Zone: In-Spoon: Headspace:	0-6	_	nder, moist, Sandralar
	-		12	778	ات – ان ات		oftine, wet, -tenstiff
					19-24	in we	1000 - 10
28			3 3 12 22	0.C 589	6-18 18-24	Som w	rety organics, dark bladis
70			-4	0.0	12-24	SM Sil	ty sond, Sorpy wet,
			4 12 20 22	817	18"-24"	Sw W	ellgraded Sand, with days rk brown/black, medicanse rk brown/black, medicanse fines, moist dry,
30	,		47	0.0	(00% 0-2 2-24	SW 5	with organics :: Same as (30-32,18°-24°)
34		MW 24 SCREEN	19	801	6-24	5W 50	me asc30-32.18°-24"
m c	<u> </u>		19 25	·			Date Pg 0' (
34	Geologist's	Signature _		Date	Revi	ewer	Date P8 -> * (

PHILIF	SERV	/ICES		tigraphy Held	Location ID MW-74D Facility KPINT Project Location Type:
Data	128/0	70	Field Geologist LOCI LCL (2	es.A	Soil Boring Only Well Test Pit Trotal Depth
Dritting Method	I		Sampling Method Split Spck	.v	Geological Description: Sample Interval, Unified Soil Class II
Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (Inches)	Geological Description: Sample Interva, ordine don Munaell Color, grain size, sorting, moisture, compaction, Indication of contaminants (odor or sheen), and general stratigraphic description.
0.0.	MW-24D Screen		Breathing Zone: In-Spoor: Headspece:	75% 6-24	sw same. I cose wet
		4 47-	3.65x 210	15-29	CL to same as (36-38,6-24) CL to same as (36-38,6-24) Med. dense, oliveogray 100 congrues
		/	10	fal I	2epth 39
		·			
_	•.				

PHILIP	SER	/ICES	So≆ Strat	igraphy Field	Log	Location ID MW-25 Facility Kent Project Ken-1 7
Date 7/-	7/00	,	Hold Goologist Lou La Ra	sa		Soil Boring Only Well Text Pit
Drawing Method Limited Al	ess Rig	_	Sampling Method Split Spoo	n/Shel	by Tube	15 /
Depth of Sample (ft bgs)	Sample 10	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (Inches)	Munsel C	olor, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.
0.0			Breathing Zone: In-Spoon: Headapace:		ASP	halt
		10-0			Fil	\
15					Deni	organic silt builting
			0.0	2∜	ML W	ronganic Silt with red neen on outside. Dry.
		0	6.0	•	\$	ine elay. Pased of outhings.
8.						2250 Car 12861 of call 27.
\$5				75%	Colle	ed Shelbe Tube -
10. 6		5	0.0	03"	Sal Sav	ne as (5-9), Inorganic - ay, tomod plasticity, No
2000	• · · · · · · · · · · · · · · · · · · ·	19	0.0	3"-12"	51 C1 50	Horsand. Deiratgray. zue es (10-11.5,0-39), ————————————————————————————————————
125		9	ව.0 6.0	25% 9-12"	el 3º	are as(10-11-5.3"1'Z")_
14		11				
		Total	Depth	15		- -

Reviewer_

Date _

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	N/ICES	Soil Stra	tigraphy Field	Log	Project Well 12 stallation
PHILIP SER 기원이	VICES	Field Geologist Salamet: Me	dfree story I	my s. Loll	Location Type:Soil Boring Only
TO COME Sculp His	10 F 445 3.75"(D	Sampling Method		30m	\ C
Cepth of Sample II (ft bgs)	Blow Counts	Total Organica (ppm)	Sample Recovery (inches)		lor, grain size, sorting, maisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.
0.0"		Breathing Zona: in-Spoon: Headspace:		fill-har	· 1.1
-	1 3	0	4.	fine de ser	- very fine, medium nse, clive grey, will ted
- -	56			cr c\	game debristroots), ive grey, little to
_				W Y	loist, dense, cromon
4,70	T LCC	D	29	16-18" Wel	Sentente Ch. PS. ML 31 It with few Clar I Services. Medicin mg Right. Medicin Strff.
	50 /@	*		19-19 " N	olevately serted. Dry.
				19-20-	MAL SIFE WELL STIFF
)	to better SM samely and in the organization of the second for the second for the second to the secon
				22-29	me 5111. Day reconstruction Date Pg for

	PHILII Date	P SER	VICES	Sail Si	tratigraphy F	ield Log	Location ID , MA-102-E-Z Facility Krt+ Project WG Fingh.
•	6	3/8/		Salarnah Magnyson			
			3 Finner	2'x25"S	olitSpo	Cr\\	1 1
	Depth of Sample (ft bgs)	Semple ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Munsell Co	escription: Sample Interval, Unified Soil Class ID, lor, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.
9	0.0		3	Breathing Zone: In-Spoon: Headspace:	0-20"	103	Lelay. Well sorted— silforsomer Mossf. Medium to soft. Medium grow.
7		٠.	7 9	0		16-20" pm.	with Sandy Silf-Silf -
 - -			17			hoose	,
' - -	_		4955	Ö	go "	@16-20	on same as above.
	-		9 10 12 15	Ö	av.	son. Sork Med	w fire sandwift e sitt 60-90. Poerly ol wet hoose. ium gray.
			117 20 24	· v	20"	Sorte Sorte	-SP fine sand with silf. 80-20 Well d. Soft. Olive black.' o" very wet, soupy o" Mast to wet.
			10 11 15	0		3-3" SP 3-29" SAN SAND	Sandas Micha - - Sandy Siltwith Fine Moderately Sorted 25 Moist Loose, unish gray.
Geo	logist's Signa	ature Fr	mal M	23, Date 45/0	Reviewer		Date Pg 2 of 3

and an				Soil Str	atigraphy Fie	ld Log	Location ID Facility	MW-102 Kent	
	PHILIF	SER	VICES					Jell Ing	<u> </u>
	Date 2/	18/01		Salair)	ili Mac	gilwon	1	ly Xwell _ Tes	t Pit
	Drilling Method	15,301bi	DISKU Frimmer	Sampling Method		-	Total Depth	(9	
	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6°)	Total Organics (ppm)	Sample Recovery (inches)	Geological De Munsell Co	escription: Sample l dor, grain siza, sort of contaminants (o stratigraphic c	ing, moisture, con dar or sheen), and	npaction,
19	0.0		15	Breathing Zone: In-Speen: Headspace:	15"	500	ML 571-30	> Moder	ورباو إن
	<u> </u>		31	0	- 	671	yed ine		
			22			archi	SP inedic red san	st, no Si	(F.
	 	·	25			نن 11:1	li serted Le Biació	. Wet. his . Reclar	ne ine . ∩c(—
						wh	.ite Spec	. ڭ. 	
21						Total	Depth:	=19'	
						Split	Depth: Lu Auge Spoon	-21'	<u> </u>
-	<u> </u>				·	·			
	-								
F				·			·	·,	_
	- '							,	
	-								_
-									
L			randell'	May pate 3/5/	G. Barin		Date	Pn · Y	
GE	:បាបប្អានវ និ ៦វិថ្វា	uarure zaker.	and the same	pate /17	Heviewe	·		· ⊌	

PHILIP	SER	/ICES		iügraphy F el		Location ID MW-112-5 Facility CTF Kent Project Supplemental Offsite (
2/1/	101		S - 12 - 14	Magni	NOCH.	Soil Boring Only YWell Test Pit
C120 PC	Limited 14	1)15 Hanner	Sampling Method 1.5 2,1" diame	ter acet	ate liners	3.0'
Depth of Sample (ft bgs)	Sample 10	Elew Counts (per 5")	Total Organica (ppm)	Sample Recovery (Inches)	Munsell Co Indication	kor, grain aiza, sorting, moistura, compaction, of contaminants (odor or sheen), and general stratigraphic description.
0.0'			Breathing Zone: In-Spoore Headspace:		NOT L	OGGED - FILL
			0.0	3"	(زندو م به ه	M SILLY Sandy gracel and with men, sill and pebbles.
		, J			Olime	ly sorted with longe Dr. Lynan SILL Smear. Lance reats.
		10			Vev	IL Solfwith clay Dry. 4 state well sorted.
· · ·					4"-5" -	om whatrix w/CL imposticroinglement subty silt. Sill with free
					Sarra Z oc albic	est. Dark graf, line era
		•	:		meill Sheill - wery	er Clay, well Sorters Dig. Shiff Olive gray
	· •		_0.65m		not Lo	GGED
		<i>C</i> 1	00	12"	0-12" r	n L SH with clay strong and send strong ray with viel
_	,	13			1 6	- W - W - W - W - W - W - W - W - W - W
		22			Scr Le,	d. Organic desires
	<u></u>				NU] L	(196 E)
	lignature /			<u> </u>	<u> </u>	Date Pg of _

						Lo	Location ID MW-112-5		
•			ASSESSED	Soil Str	atigraphy Fle	d Log Fa	region well Instal		
t	PHILIF	SER	VICES			Pr	roject and I Donates		
	2/1/	101		Field Geologist SUCCIONS	hillian	116500 2	cation Type:		
825"	Drilling Method	1401b	14 annal	Sampling Method	Sp11+5		tal Depth S		
1	Depth of Sample (ft bgs)	Semple ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Geological Descr Munsell Color, indication of c	Iption: Sample Interval, Unified Soil Class ID, grain size, sorting, moisture, compaction, contaminants (odor or sheen), and general stratigraphic description.		
575			9-14-50	Breathing Zone: In-Spoon: Headspece:	12"	5/1.0 Shiff 1244	Clay waster seeing to find well sated. Dy. Liting Light to intendice in given Light Brewn Streething with Janua's intention		
9.5						Tolat	Dopth = 8.0 -		
							-		
							- -		
	-								
	_								
-	_						-		
_	_		١				Date Pg 3 of 2		

			2788F-373				Location ID 3//4-2773
	2000		NO PERSONAL PROPERTY.	Soil Str	atigraphy Fie	ild Log	Facility
	PHILIF	SER	VICES			·	Project 200 1 Early of African
	Data // / -	=		Fleid Geologist	i en		Soil Boring Only Wall Tast Pit
	· /·/ ".	5/01	<u>i</u>	Jal Gune	ि किर्माम क	at the service	Total Depth
	Driffing Method	14,25°00 1 2015 St	& 8.250 5/0///	Sampling Method	101.45	pea.	44
	Depth of Sample (ft bgs)	Depth of Sample ID Blow Count (per 6")		Total Organics (ppm)	Sample Recovery (inches)	Geological De Munsell Col	scription: Sample Interval, Unified Soil Class ID, lor, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.
C	0.0'			Breathing Zone: In-Special Headspace:		5111	Not Logged -
$\int_{\mathbb{R}^{n}}$.3	<i>0.</i> D	Ac.	0.3" Fi	L <u>L</u>
	· ·				0.2	1 7. 1 M	L Silt water wary fine
			34	4.4		1	and day 00 20-20
			4	·		\$4/1.	Somer clay their grant
						D	Sitt. Drik gray. Cignic
İ	_	,	5		* *	1	thereinghoused.
					•	D una	representation of
j						6 14"	would debite -
	_						
.0				Ŋ	32"	0-6" Bo	n temite seal
ŀ			~			6-22 " CL	. Cong with the sill
-			4			We(1)	Social Mout to Dit herits
			7			24.4.7	ight Gray
)			612-1	Denk ener
	-		2			ei Or". L	ight bruncoles mixed my
-	-		.		ļ		•
						<u> </u>	
7			7	C7	34"	0-20" C	L Schole as a lie be
	_		5	ļ	.	16-24" 5	The same send
ŀ	-		3			$z \cdot + U \cdot i$	The state contraction of any
	_		?				Portly sorbol Moss 1 to
L			(¢		107 lt		ا ان ان ان ان ان ان ان ان ان ان ان ان ان
			=	ρ	187"		
-	-		(a			آن⊃ سا⇔ر و ا	
-	-		+		1	6-18" 5M	VSW silly sand
	_		12		İ	11103757 5:14.100	The Solved Melting
						icese.ci	Sarol, fine, with some
<i>5</i>			(a. 111) a	3 Data 26/	Reviewe		Date Pg of
G	ទេវិចិត្តនេះ និវិទ្ធិ	uramite. <u> </u>	<u>a artifecture (inc. 84</u>	7. Date 2/1/1	110 410 44 6	: 	

· 	PHILIF	SER	VICES	Soil Str	atigraphy Fie	rid Log	Location ID ANNIELE D Facility Kind Project Will Tristallation
	Date	15/01		Fleid Geologist	oliMe	(41761Som	Location Type:Soil Boring OnlyWallTest Pit
	75CA	16.25005 1E, SCI	14/14/24	Sampling Method		J セハ	Total Depth
	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Munsell Col Indication o	scription: Sample Interval, Unified Soil Class ID, lor, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.
13	0.0	_	4-6-	Breathing Zone: In-Spoon: Headspace:	44"	C-24"S	PERME as above _
13			(. 4- 2/14).	O	24"	65- SOTHE 9 1 24 6 12" 14-24" SF Eines	organic wood & debis. Thine Someth His time. Live ilsorted. Of me black.
<i>i</i> 7			2223	C		0-11 5050 14-12" ML Sonted D 16-20" SP Me ist Medica	dedicion dense. June as above, by met. Silt. without ay. Moderate Silts fi ff. Light grac. Sine Sand well soriect. town Clie Glack.com. L. Same as 17-19(14-18) 19565. Erganic de bris.
<i>i</i>			17 77 77 77	0		3-8" CL Light 51 6-12" 51 12-13" CL	intermixed with CL Summis clay with CL (L. Kipli Sorted, mais 1, 3/18/ (L. Kipli Sorted, mais 1, 3/18/ (L. Kipli Sorted, mais 1, 3/18/ F/M Ens send, 5.11. Same as 19-21 (3-8") = Same as 17-19 (16-20")
سار سا		<u> </u>	;				

Geologist's Signature Asim Date Asim Date Asim Date Pool of 5

	DHIII B	P SER	VICES	Soil S	tratigraphy Fi	eld Log	Location ID MIV-118-D Facility K+++ Project 4/1 Installation
٠	Drilling Metho	15/01 1475", 5	25.05 Vocare	Fleid Gaologist Carrier Sampling Method		greesen	Location Type:Sall Baring Only
	Depth of Sample (ft bgs)	Depth of Sample ID Blow Count (per 6")		Total Organica (ppm)	Sample Recovery (inches)	Geological De Munsell Col	scription: Sample Interval, Unified Soil Class ID, lor, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.
	 		5/2/5/8	Breathing Zone: In-Spoon: Headspace:	18"	5166 506 4-18" SI	check where specs.
3			25 50	O		@16-18"	same as above. organic cubactopolis -
	_		1001-1	D	12"	out.	o same as above. rood, material through
			5 4 4 20	0		5,11.0 65-3 Make 6 16" 18" 22-24 54" 22-24 54"	
			9 9 11	O	24"	0-24" 375	Same is 27-24 (0 22°) sin sind with some SIT. maded het or he black. Led. um den se with he

الجر

Geologist's Signature Abrafillizin Date 25/1, Reviewer_____

Date ___ Pg ____ of ____

<u> </u>	2:4-54			Soil Stri	itigraphy Fie	ld Log	Location ID	1000 + 10	<u> </u>
(PHILIF	SER!	/ICES	Fleid Geologist			Project 1/2.	II Inst.	allation.
	2/	5/01	٠	Solaman	MAGN	150m	_ Soll Baring	Only X Well _	_ Test Pit
S.25"	Drilling Method	一つこしょく	o Hanner	Sampling Method	oh + 5	pos	Total Depth	44	
4 . 25'	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Munsell Co Indication	lor, grain size, s of contaminants stratigraphi	erting, maisture (ador or sheen) ic description.	, and general
31	0.0'		7	Breathing Zone: In-Spoon: Headspace:	22"	0-2"C			7 (O-22) -31 (O-24)
			5156	O		4-8" C	i /OL Sa rgan-c d P med.	mens 27 lebris H langue	-29 (0-22) ,-10 y (12 0) at on
(·	-					11-14-14-14-24' foorly	et. Los the special or since serted main se	ik. Rodi -3. mei.s272 debsis malysi . wet. he . Olive b	16002) - H - 1600 +0 - 1600 H;
33			て	(5	24"	2 . 1 (1 5 ::	a silte	Sand, 3	andi
35			> 4 7-7-	6		Moist Drive a marker of wee 14-24" Sitt	SO-SO FEE Legis Fig / Bin Fin rough sole diels OL Class well So Dank J	Hedicional Ellick Long. Lia	Meiste
50		/	9						
(Geologist's Sig	nature	Camelif	1/4 1 Pate 2/5/	A Reviews	er	Dat	eP	a 4 or 5

	SER	VICES		tratigraphy F	ield Log	Facility Funt Project /Lift In Stall of
7	2/5/01 Salans		Flekt-Geologist	h Maa	nuson	Soil Baring Only Wall Test Pit
75 CNE	- 30 lb	Hanner	Sampling Mathod	Solit	合色的	Total Dapth 44
Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Munsell Co	escription: Sample Interval, Unified Soil Class ID, plor, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.
		25	Breathing Zone: In-Spoon: Headspace:	24"	· ·	Same as above of -
		25	Ø		Sai	rd, no Situall looked
-					t 2€, 2	trum danse. Ald and white 10°CL stringer. —
-		7-17-20	Ö	24"	0-24 5	ane as 19-20 sp.
		6-19-21- 30	0	2011	0-2493	Jame as dance
-		7-15	Ö	27"	,	of Same as above.
		17-8	0	18"	0-12" St	same as above.
				:	12-18" CL Sortec	- Clay, no silt-well to the Moist. Stiff.
					Dark	gray.
					Total	DEP+1 +4"
				,		
						-

(PHILIP SERVICES			Field Geologist	atigraphy Fiel	d Log	Location ID MW-113-1-1 Facility C-17+ Project V
	1 '	HEA IS	15 / 14 , 25 11 15 / 15 / 15 / 15 / 15 / 15 / 15	Sampling Method	SPOCT	Munsell Co	Total Depth Scription: Sample Interval, Unified Soil Class ID, Jone Grain size, sorting, moisture, compaction,
Ч	Sample (ft bgs)	Sample ID	(per 6*)	(ppm) Eresthing Zone: In-Spoon: Headspace:	Recovery (inches)	0-12" 5	of contaminants (odor or sheen), and general stratigraphic description. Wally Saildy Sail fill
			7	D		rita gr.	Herial, dry, 1005e, well up +0 2,5", werute yellow sh
5.5			16	0	15	3-6" S	w may be storagly com above
			Si			یا : : 15 ^{۱۱} م ل آ س	ery fine, we + moderate sizun, dense, we II- sizun, dense, we II- sizun, dense, we II- sizun, dense, we II- treaking, plastic, wet,
7				· · · · · · · · · · · · · · · · · · ·		n	redium dense- denser iery well scrted
7.5			3 3		13	0-18" (L silty clay, clive rey with moderate brown streaking, maist dry, medium stiff, Viry well serted
a !	Geologist's Si	gnature / ///	Mark H (1)	Mare 2/12	į Review	er	Date Pg / of 3

		VICES	Soil St	ratigraphy Fi	eld Log	Facility Project Will 18541040		
Date	SER	VICES	Field Geologist	<u>-</u>		Location Type:		
1	12/01		-	_		Soll Boring Only XWell Test Pit		
· '			Forestee Method		11/1 SPOON	Total Depth		
Dritting Method Liverite ch 145 A 14.	Access 25 "00 65		12" ×3"50	十到001	1/6 cliriver	143		
Depth of Sample (ft bgs)	Sample ID	Blew Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Munsell Col	scription: Sample Interval, Unified Soil Class ID, or, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.		
0.0'			Breathing Zone: In-Spoon:		inc recen	very, driver -		
		U 600	Headspace:	12-	ملائ	silty clay same as one alive grey medium		
		ج ک			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	all Surted, Plastic - 51H, wet, olive grey,		
_					νο 51	streaking, soft - medium		
_		5	0	14	0-3" CL gre stre	lightly less plastic silty clay, wet, olive y with moderate brown aking, soft, very well _		
_		9			3-18" SM	silty sand, very wet,		
					.tc	s & white specks, fine -		
_ _						every		
_		14	0	12	114	He sand Mixedell,		
_		21			40	mad content decreases - wards bottom, as does		
-					ľΥ	edium dense, well -		
_								

Geologist's Signature Att Marin Date 1/2/6, Reviewer _____ Date __ Pg ____ Of ______

•	PHILIF	SER	/ICES	Fleid Geologist	atigraphy Fie		Location ID WW-113-I-I Facility Keyr Project Well INS+All ation	
	2/12/0 Drilling Method Livited HSA 14.	LACCES	Hammer Projection	5 ASY 6 (7) 5 Sampling Mathod 12" × 3" 5 18" × 2" 5)	Pli+ spac	-л w/ 6"driva 197		
\	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Munsell Co	Description: Sample Interval, Unified Soil Class ID, Color, grain size, sorting, moisture, compaction, in of contaminants (odor or sheen), and general stratigraphic description.	
3,5			7. 4 G	Breathing Zone: In-Spoon: Headspece:	13	ivi ivi inci bec inci si bec inci	stouts out wet, soft, th some five sand mixed, , soud content decreases clay content increases words bottom as silt comes more plastic, store decreases slightly E It becomes stiff towards form, clive grey, some organic boris, no streaking,	
15			2 4 5	0	14	Мо S a 30 50	L same as above, ist silt, a few fine nds mixed, in, plastic, it - medium stiff, me wood debris @ q", olive grey, well orted	
			10	0	14"	(1-18" SP SIMA Mi Wi-	- same as above 5-16,5') How well somed said Ill amount of silt sill xed in, olive black th red swite specks The wet, medium MS2, fine-very fine	
(4)	-		11	3 2		TOT	al Depth _	
(G	ealogist's Sign	nature <u>/ till</u>	THE S	VIII Date Efection	Reviews		Date Pg 3 of 3	

12 | Soy | 12.5 | Strike | 12.5 |

PHILI	P SER	VICES	Soil Str	ratigraphy Fie	ild Log	Facility Project
Deta 2/4/	01	D:E257	Salamat			Soil Boring Only Y Well Test Pit
750	IVE, SI	O [DHoumer	Z × 1.5	26 - 1-1 ds	book	15
Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Munseil Co	escription: Sample Interval, Unified Soil Class ID, olor, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.
0.0*			Breathing Zone: In-Spoon: Headspace:		1/400 601 50	xity, sondy, gracely - ixture! Languaracks, - belies. Very Losse. Poorly - med. Dry. Moderate own. own. ixt. Fill
			O.0		ML Sitt	t with the sawland I clay sporodic roomse Let Poorly sorted well Sift Let you will not conse x streaking.
		3/14/6	0.0	27"	7	Sin Sandy silt, we and six stringers throughout, copy sould the coarse means, and loose.
		EN MIN MANGE	0.7	24"	0-18" S V 0-18" V	same as 5-7 12-24" no coarse grand, some presentshy grand coarse - tand at 14-16" and solted, oline grand moist stiff,
		CD 60 V5	0.2	ZH".	0-6" S 6-9" S S	same of 5-7' 12-24" - p glayish black, med _ and, med sorted, moist, _ cose,

PHILIP	ŞERY	/ICES	Soil Str	atigraphy Fie	ld Log الإنجام /	Location ID MW-114-T-1 Facility Kent Project Well MStell Atland The Soil Boring Only Zwall Test Pit
2/4/		5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Corey	Johns	en magni	Soll Boring Only ZWall _ Tast Pit
75 CM	年25 ^{mg} (o, size to	Sampling Method	Sphy Do	у М	15'
Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 67)	Total Organics (ppm)	Sample Recovery (inches)	Munsell C Indication	Description: Sample Interval, Unified Soil Class ID, Color, grain size, sorting, moisture, compaction, n of contaminants (odor or sheen), and general stratigraphic description.
- 0.0,	·	in the second	Breathing Zone: In-Spoon: Headspace:			Santal 7-9' 0-18" - Santal 7-9' 0-18" - Santal 5amoly mill -
_		77437	<i>b.</i> 0	244	•	Scrtal, Moist, 1005=
-	\		<i>ن</i> ٠٥	24	' 1	same 15 9-11' 11-24"
-	°40	7				ml silt with few fine_ Sand, olive gray, mist, Med Stiff, med-well Solted, Some Sand Stringers
					Tota	1 Depth 150
					·	
logist's Signat	- 1	11-1)	5 - 4).1/.	0 Reviewe		Date Pg <u></u> of <u></u>

	PHILIF	SERV	/ICES	Sail Stra	atigraphy Fiel	d Log	Location ID MW-117-IT-7 Facility K-First Project (Mr. 1 I Installation	Ci.
		16/01		Field Geologist			Location Type: Soli Boring Only XWell Test Pit Total Depth	
٠	Ontiling Method	1425 75,300	100, 82500 1 Hawwer	Sampling Method	ph +Sp	cen	19.5 695	
	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6*)	Total Organics (ppm)	Sample Recovery (inches)	Munsell Col Indication o	scription: Sample Interval, Unified Soil Class IC for, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.	',
0	0.0			Breathing Zons: In-Spoon: Headspace:			Not Logged	
4				0.0	20"	6.1	L clay with some +. well sorted Dry. drum stiff, Med. um	
			4			10 - 20 "	of the gray. ML Silt with some with some	t.
			4		•	livi.	drumstiff, medium	
G	_		1 1 2	0.0	24	4,5-24" SA We So	ntonite seal sandy silt, very wet, is surted, medium stiff, and wange streaking at.	
Z			250	0.0	22	0-18" BL Pla 501	silt, soft -medium sitt stic, wet, very well red, olive grey with	_
			14		-	14-22" SP der	well sorted sand, most well sorted sand, most se olive black, fine mined, fine videntile specks	1
10		0	15 10 12	0.0		30176 SOTH 10-224 SP U	very soft, very wet silt, - very fine sand, well ed, clive grey well sorted sand, same as re (14-22", 8-10")	
(レー	Geologist's Si	Bustnie	Aino Mar	Date 3/4/	C Review	er	Date Pg of	<u>)</u>

	24 14 15 25		ALDI	Soil Stra	ıtigraphy Hel	
;	PHILIF 2/6/0	SER	/ICES	Field Geologist Ta Sy & Enrice	-	Project WELL INStallation Location Type: Loca
	CALE 75		1915-201)	Sempling Method 2 , 2'' 5F		(7) Tatal Depth 19,5 095
	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6*)	Total Organics (ppm)	Sample Recovery (inches)	Geological Description: Sample Interval, Unified Soil Class ID, Munsell Color, grain size, sorting, moisture, compaction, Indication of contaminants (odor or sheen), and general stratigraphic description.
12	0.0'	·	6 4 11 15	Breathing Zone: In-Spoon: Headspace: O: Ū	24	6-24" Sp well sorted served; _ Very went medium dense, five graned dive black wen specks of red & white (very five), moderately to
14-		·	4/0/15/0	0,0	. 24	0-6" SM silty sand, very wet, 1005e, time - very fine granted, olive grey, wet sorted 6-24" SP same as above well sorted
			47+1290	° , (7)	24	sand (12-14', 6-24") 6-19" S.M's andy sitt, dense, moist, well sorted, olive are y, fine - very fine olive grey with some brown Streaking 14-23" S.M silty sand, sand content is much fligher eslightly courser, moist, medium dense, mostly fine - very fine, medirately sorted, olive black with white
14	Geologist's Si	gnature / / i	Way Myr	Date 4/1/		23-24" OL very organic soil, — medium brown, moist, — soft, well sorted

1/

The part of the pa	PHILIP SERY	/ICES	Soil Stra	atigraphy He	id Log	Facility Project Up plementa Offsite Char Location Type:
Depth of Sample D Blow Courts (ppm) Depth of Sample Depth of Sample Courts (ppm) Depth of Sample Depth of Sample Court (ppm) Depth of Sample Depth of Sample Courts (ppm) Depth of Sample Depth of Sample Court (ppm) Depth of Sample Depth of Sample Court (ppm) Depth of Sample D Blow Courts (ppm) Depth of Sample D Blow Courts (ppm) Depth of Sample D Blow Courts (ppm) Depth of Sample D Blow Courts (ppm) Depth of Sample D Blow Courts (ppm) Depth of Sample D Blow Courts (ppm) Depth	210 01		Tasya Gray	Salamal	Magnison	Soit Boring Only XWell Test Pit
Depth of Sample 10 Blow Counts (ppm) Recovery (ppm) Recovery (inches) Manuscal Calor, grain stan, sorthy, moisture, sampaction, indication of contaminants lodge or sheen), and general strategraphic contaminants (add or sheep). And sheet sheet strategraphic contaminants (add or sheet), and general strategraphic contaminants (add or sheet). And sheet sh	George 30	() (h -	2,1" diame	· 問'spi ter acet	ace nings	1,73,043
mspoore Heathers: 10 10 10 10 10 10 10 10 10 1	Depth of Sample Sample ID	Blow Counts		Recovery	Munsell Col	lor, grein size, sorting, moisture, compaction, of contaminants (odor or sheen), and general
14 Nell scrted, locse. 3-5" oh very organic silt lens, roots moderate brown, meist, well sorted sand, wet, olive hack wired & white specks, hoose becoming medium dense,		4 10	in-Spoor: Headspace:	16	504-8"5P We ren 8-10" 00 Mi 10-10" SF	ndy silt, onve grey, very fine, well red, loose, well sorted sand, it, olive black with d & white specks, fine rained, Medium dense L very organic silt lens, buts, moderate brown, list well sorted sand, wet, ive black with red & nite specks, medium ense, westly fine but lightly coarser than
Auger to 19.5' bgs -		ZO	0 · O		3-5" Chi ma ser 5-20" SP i hlace toos fin	it grey, fine-very time, It sorted, loose: very organic silt lens, voots derute brown, moist, well ted well sorted sand, wet, olive te wired & white specks, a becoming mechium dense, we grained

().	T	SERV		Field Geologist	Igraphy Field	Log	Facility Froject UDD PANIOTICA OF SILO Cham Location Type: # Soil Boring Only & WellTest Pit	
25"00,	Dritting Method	29/0 Limited	Access 115 Hapour	Sampling Mathod 1.	5,2"5	ate liners	Total Depth 5, C	
14.25"	Depth of Sample (fr bgs)	Sample 10	Blow Counts (per 6")	Total Organica (ppm)	Sample Recovery (Inches)	indication	of contaminants (odor or sheen), and general stratigraphic description.	
<u>Z</u> .	0.0'			Breathing Zone: In-Spoon: Headspace:	انبار وبد		oft, fill Softist City stores, Which and graves. Dry	
			50			bec	blokes and grace. Dry blokes and grace. Dry ose. Light olive gray. only sorted. Fill	
2/12			好 50	0.0	4"	2.	arne, as above _	
3 3/2			69	0.0	" تي	(Sin 5	ame as above	
41/2	<u> </u>		75 26-39- 41		0	Nº Re	2000 - 1 112144	
G	 - -		45	0.0		Grow Fine we	ES. poorly Screech, very L. Lasse. Light olive	
7]	 - - -		70	0.0	9"	0-9"C graine grane wet.	ed sand with some sill, and consider footly sorred. Lase Light cline gray. Acresid Dines	
9	 - - -		17 18 20	0.0	۱۱ ن	porari.	Jan medium grain sance some sillicologies, granel. y sorted. Very we f. Light - gray Louise. Increased lines	
9	Geologist':	s Signature	Jalan	(a) Mapate 1	129/1/Revi	ewer	Date Pg of 2	_

	PHILI	SER	VICES		Stratigraphy R	ield Log	Facility CT Ken Project Supplemental Offsite (
5	Drilling Method	29/01	1 d			PillySCLA Devous br Splits cale liners	Location Type:
NUT!	Cleop	sobe in	(ces2	2,1 diam	reter ace	tate liners	150
". "	Depth of Sample (ft bgs)	Sample 10	Blow Counts (per 6")	Total Organics (ppm)	Semple Recovery (Inches)	i wouten car	scription: Sample Interval, Unified Soil Class ID or, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.
% F	 		15 17	Breathing Zone: In-Spoor: Headspace:	12"	596	THA Same asabore. O-6") Increased sand grains.
/ 	_		44 50	0.0	9"	5-90	in same as above of Directors frains.
	-	·			-	5-9" Gi	in fine Sandwith
				0.0	paer	· · · · · · · · · · · · · · · · · · ·	sorted. Derk gray - e no granel in outer - npie.
			50	o.C	Licens (g)	coarre	e and medium sand, silt, iakel. toutly soited. et. Eft, love Dark - Mestle Sand and silt.
			10	0.0		7-4" Gov Granged Sillifter Lotse. Das	1 Sercearse and indium Sand with graveland No sorted ivellivery
			10		4	-12" 5M	Silly Sand time Sand Maderater Front , 50-50 Sand to Silt, curel rose Dark —
_							Depth = 15.0 -
			Jana 194				

e e e e e e e e e e e e e e e e e e e	<u> </u>	SER)	/ICES	Sail Stra	digraphy Fiel	d Log	Location ID MILI-11 F. I-1 Facility Kont Project Well Invalidation Location Type:
	Data //	30/00) - राजा समार	Salamah	Magni	<u> 15017</u>	
		14.25 02 eci Acce 16. Ham	2 7	1,512"	5p1143	Spcei~	17'
	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6°)	Total Organics (ppm)	Sample Recovery (inches)	Munsell Co Indication	escription: Sample Interval, Unified Soil Class ID. olor, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.
	0.0,			Breathing Zone: In-Spoon:		NOT LO	(5) (5) (5) (5) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6
2			100 Swr "	Haadanace:	Poor recove: 7	and and	unpolition gratified said of few fines, borne grand, peblotes. Very 10036. Day. It sound. Grayish brack
25							GGED FILL
75			12 14 2218		9"	throng 511th and C Stiff	ine as above, with colories. nent, M.L. Chunks. ith some Line sounds iay. 50-20-30, in colorate Moist today, Med, un Dark gray.
30			557		1.7."	poorli gray. Hura 2-12" po 5, 14 a Well s	w Sand (midium grain) grawl, Silt, pelsties y Scred. Dry. Dank Locse. ML chunks yhour. HCL clay with some and fine sand. Moist. Sorted. Stiff. Dank
, , ,	HU.M.		ري اين اين		12"	5580-11 LEPY F	-OGGED "SC fine Sand with The Sand and sill. The year of the Movest to The fight almost
`` . ``	Geologist's Si	ignature	elmali	Mon Date 1/3	/U/ Review		Date Pg of Z

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PHILI	P SER	VICES		atigraphy Fie	ild Log	Location ID W-118-T-1 Facility Krnt Project 6 211 Instal.
1 / 1	30/01		Field Gaologist Alauna U Sampling Method	Magi	חנגנ ית	Location Type: **Soil Boring Only **Wall Test Pit Total Depth
Li Loui Li	od 14.25°C 201 Ac(25' 4010 Hai	S S MUST	1/2/, 2"	PVC Sp		17-1
Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Munsell Co indication (scription: Sample Interval, Unified Soil Class lor, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.
0.0'	prioto		Breathing Zone: In-Spoon: Headspace:		, ,	ay. Bed and count space ad in Shee, pushed down fro
	,	30-50		12"	© €12" SC	, same as above. Wet
						UMMED
		5-12-14		12"	0-12"30	. Daint as about we
					<u> </u>	OGGED
	3H@0	10 12 11	·	.12"	6-12"CL SILF Sili	- Same as above in - clay worth few - well sorted with Ff. Darkgray wood ons
				:		ul Depth 17' bg
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 .	PHILIF	SER	/ICES		stigrzehy Field		Facility KCd	-170-II nt Install
	Date	2/01		Flaid Geologist	(Way	1 USOV	Soil Boring Only Y'W	altTast Pit
	Drilling Method	9.15"00,1	1.2510D	Sampling Method	5/11/5	Desc is -	<u> </u>	11.15 4.5 1.0 10
	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6*)	Total Organics (ppm)	Sample Recovery (inches)	Geological De Munsell Co indication	scription: Sample Interval, lor, grain size, sorting, mo of contaminants (odor or s stratigraphic descripti	isture, compaction, sheen), and general
	0.0.			Breathing Zone: In-Speem: Headspage:		FILL W	ot logged.	
.5				U	12*	par vir	v gravel, ed xly soried.] Loose. Fill	Dark graf
						Silf	CL clay un' Well Sorted Dry Madrice Streaking t	Machiber -
2	_:			9				
Ф				D 	24	9-14" (L	rntenite Se clive gody, clive, mast, y ense, matth	few visable will strat, astic —
		·		÷		14 - 24"	CL while green wederate by streaking, man	11000
÷ (1						m 713	Will sorte visable qui evitarite =	ins med dense
יכו	_			Ð	24	3-7"C	L clive gre uderate brow let, plastic well som to	y with -
	- -				-	7-24" 5	Mandier town andier town town the grey!	1+ getting orgis bitand fine-very moderately
10				·			Well sotte	
\U\	Geologist's S	Signature 🗍	MAYA	A Chipoate - 1	12/1/Review	ver	Date	Pg _1 of 3
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				<u></u>			Location ID MW - 120-T4
				Soil Strat	igraphy Field	i Log	Facility Kent Project Well Installation
	PHILIP	SERV	ICES	Sald Gardonist	1.	11	Location Type:
	Date >	112/01		T. 50 (10	- Sala	unechi Magric	Soil Boring Only Y Well Test Pit
		, ,		C Core Marthor			Total Dopth
	25 ME	7/20 V	5 Hamer	2 × 2" 5	111-512	Coological De	escription: Sample Interval, Unified Soil Class ID,
	Depth of Sample	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	indication	of conteminants (odor or sheen), and general stratigraphic description.
10	(ft bgs)			Breathing Zone:		0-14"54	11 silty sand v 50/50%
10	_ 			In-Spean: Headspace:	24	l w	et, madium densei
•				Ó			live grey, fine-very fine,
	_					_ v	NEIL SOUTER
						19-24" 51	P well sorted sand with
	_					A	little silt content, wet,
		•		ļ			redicin dense, chive grey-
						l	olick, fine grained _
12					21	ō~5°5	57 same as above
				0		5.0" N	AL will lens
-						(-13 " 5	of same as above
	<u> </u>	•				(1	U-12',19-24")
						13-21"	ML silt, Maist, dive
							ster, medium dense,
						V	very well sorted,
							Car
14			10	1	24	0-8"34	u sandy silt, wet, fine -
	_		11	١٠		7	ery fine, clive grey,
			門	·		*\	well sorted medium
			. "			4 77.11	121 1/1 - Arrow JEVISE SI IT
						3. 23	slightly plastic, but still
						*	
7,7							maist, vary were service
,	<u> -</u>	•				23-24"	S.M. Sandy silt/silty sand,
15							cive gray, fine-very fine, modirately wall
13							Sorted, moist,
1	J				<u> </u>	<u> </u>	Date Pg Zol 3
1	7	Signature/	CALMAL	Will Date 1/	ZLI Revie	wer	Date Pg(
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	. *.						Location ID		
				Soil Strat	igraphy Field	i Log	Facility Ken Project Well	t Installato	n
	PHILIP	SER!	/ICES				11000		
	Date			Field Geologist	Schown	al Alagnin	Location Type:		
	2/12/	101		Sampling Mathod			Total Depth .		ļ
	Drilling Method			2' × Z" SD'	it-5700	m	18	· · · · · · · · · · · · · · · · · · ·	
	75 CM	E 3crib	hawei_	1 12 30	Sample	Gaological M	escription: Sample Interval, l plor, grain size, sorting, mois		'
	Depth of Sample	Sample ID	Blow Counts (per 6-)	Total Organics (ppm)	Recovery (inche≤)	Indication	of contaminants todal of si- stratigraphic description	n.	_
	(ft bgs)			Breathing Zone:	10	6-11"5	w sil+ witha	1.44 c fine	二
10	0.0		7	In-Spoon:	, 0	56	ind, office or orted, incist	24, WEII -	
	<u></u>		12	Headspace:		5	orted, uncist	154+	ļ
			15	0		1 - 1. V	أأم المثم الماث	UD arev.	i
	-		143			1 1 16	very well sor	-told dry-	二
	<u> </u>	1					moist, med	ician al ENS	جا
•							MIDIST, MICO		
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			<u>, </u>	<i></i>	 			Pg <u>3</u> of	<u>3_</u>
(C1 : -11 -	Signature	HOTALINI N	MMI Date 2/	12/21 Revi	ewer	Date	. • • ====	-
" Mariana	Geologist's	July rates 9 1	- //		•				

	PHILIF	SER!	/ICES	Soil Stra	stigraphy Fiel	d Lag	Location ID MW-12-IZ Facility GT Kowt Froject Stopplemental Offsite Char Location Type:
	2/	15/61	(Sclowale	Magnie	ر با عرب ا	Soil Boring OnlyXWell Test Pit
*	Orizing Method	TO COME	(4.65°c)	Sampling Method 21	ter aceb	ate liners	Total Depth 28.5
	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 5")	Total Organics (ppm)	Sample Recovery (Inches)	Munseii Coi	scription: Sample Interval, Unified Sod Class ID, lor, grain size, sorting, moisture, compection, of contaminants (odor or sheen), and general stratigraphic description.
0	0-0,			Breathing Zone: In-Spoort Headspace:		NO	T LOGIGIED -
/8	_			nekope-1.	24"	3-15" M Cla Sci	Sentonite 14. Silt with some 14. 70.30 moderation ted. Dark plodium gray 1. Medium soft shift.
					•	Me /	9. fine sand wellsorled. I to most. Olive block. In m donce led a not ite spacs. CL Clay with nosilt.
•						Well gra 22-24" Sano	J. Moist. Medium Strff. ML Sill with kery fine 31. 75 35 Missleiality a. Davk gray moist. Lium Stiff.
20					24"	1 11 5	DEins Sandersthil. He
	-					\$//.	90 to well sopped. Dhue wet Loese Slight increase in sitt.
22		~			₹ 4"	18-24 M	ame as above. L Sill with some clay. 35 Modrate to perty sorted. 1. Modium diff. Modium gray.
24	Geologist's S	Signature	cloundill	May Date 413	D Review		Date Pg of 3 (

·					Location ID AMA-1121-17-
			Soil Strati	graphy Field I	Facility GIT Proloci Supplemental Offsite (har
PHILIP	SERV	ICES	Field Geologist	· · · ·	Location Type: Soil Boring Only West _ Test Pit
Dets 2/	15/0	B 754	Sampling Martined 21	1205' 5	1.4.14
CAROPY	75CME	14.25"	2-1" diamet		
Depth of	Sample 10	Blow Counts (per 6 1)	Total प्राप्तकटा (ppm)	Sample Recovery (inches)	indication of contaminants to description
Sampia (ft bgs)			Breathing Zones	24"	0.3 5P. Same as above 20-22" 024" E9-1" increasing SI+
0.0			Headspace:		
					Dia Nord South . Loss Ton
					@ 11-15 increased silt.
				34"	0-18" SM GW Sandy Silt
			•		Sorted Increase in
			4	10 m	Softed Linuage Derk Silt with depth. Derk Medium gray. Wex.
					1
-					18-24" Mi Silt water Served. Clay 85-15. Swell served. The Arum gran; Wet
					The state of the s
28				34"	0-3"SP five sard secosilt well soited wet Locse.
-		-			Olive blue 10. 1 a car.
- 10 1			1		C - C S
					3-5"CL Clay, well softed in Gray. Medium Stiff, Medium Gray. 5-18" Sm Sill with Sine and very Conty Sorted. 65-
· .					5-18" SM Sill control Contect. Co- Cine sand Poorly sorted. Con 35. Dark Medium gray Moist
				•	to act house.
					118-24" ML Still Carlot Control
*	E M			•	Medium gran, Widhin fill Mist
10 2	152		Date		Date Pg 🖄 0

	PHILI		VICES		itratigraphy F	Teld Log	Facility Kont Project WAT / Inst.	
	1 .	16/01	9.25°CD	Field Seclogist CLGIVIA Sampling Mathed	li Magi	V. Sov	Location Type: Soil Boring Drily X Well Test:	
		HSA-1 ESCC		B X2			Total Depth	
	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 67)	Total Organics (ppm)	Sample Recovery (Inches)	Munsell Co	escription: Sample Interval, Unified Soil plor, grain size, sorting, moisture, comp of contaminants (odor or sheen), and g stratigraphic description.	action,
7-	0.0			Breathing Zone: In-Spoort: Headspace:		·	votlegged.	
35			4	00	20"	13 - 7 c la	ML Sr/+ as HI.	ر م
			(7,7)			Real	Livery gray: Very S Brown discolorate	Con Cun —
-			1 = 6	. •		8-201.00	clay with little	7 .
						West of the state	shiff. Lightgraf brown discolored	0 (1/ <u></u>
<i>5</i> .5	-		7	0.0	18"	0-18110	L Same as above	
-	-		533	•		1 _	-5,5 (8-20"). Marst, 50ft	-
7.5	-		3	0.0	14"	0-2 " Cl	Same as above. 5-5.5(5.20")	
\perp	-		7 7		ļ	主い	Crease in self.	 E
	-		5			Clay	. 60-40. Madium	i`
						SHA	to soft. Medicim with light brown storesten) <u> </u>
5			وا	0.0	18"	0-16" ML	51/1 with few ch	C1 74-1
			7			Medio Darni Mixis	in Stiff to Solt, Appending	(1. 1. 2)
Ľ Geo	ologist's Sign	21.150 K. o.l.	n . a 11	112 Date 0 /6/	1. (

PHILIP SERVICES Total Consequence of the property of the prop					Soil Stra	tigraphy Field	d Lag	Location ID MLU 122-T-Z Facility FC1/J
Depth of Sample Depth of Sample Interest United Control Sample Interest United Sal Cases 10, Muncel Calor, grain size, as the control control of Sample Interest Inte			SERV	/ICES	 			Project /s epil Irist
Depth of Sample Depth of Sample (por 6) to Commission Sample (por 6) to Co		Date 2/	7/01		Salonoil	1 Magi	euson	Soil Baring Only / Well Test Pit
Depth of Sample 10 Sample 10 Sample (per 67) Total Organical Color, grain size, esting, militaries, compaction, findication of contentinants lader an absent, and general management indication of contentinants lader an absent, and general management indication of contentinants lader an absent, and general management indication of contentinants lader an absent, and general management indication of contentinants lader an absent, and general management indication of contentinants lader an absent, and general management indication of contentinants lader an absent, and general management indication of contentinants lader an absent, and general management indication of contentinants lader an absent, and general management indication of contentinants lader and services. 15		Driffing Merthod	1425'CD,			1H Spoo	01/	1050 I
115 Solution in Spoons I No. 18" ML Sift with Clay. I was a superior in Spoons of Deep gettleaming the was a superior in Spoon of Deep gettleaming the was a superior in the		Depth of Sample		Blow Counts	Total Organica	Sample Recovery	Munsell Co indication	lor, grain size, sorting, moisture, compaction, of contaminants (adar or sheen), and general stratigraphic description.
115 5 0.0 30" 5-72" ML SI/L with Fix Classes 50.20 well sorted to the well soft of the well sorted to the well soft of the well soft of the well soft of the sorted to the sorted to the sorted of the sorted to the sorted of the well soft / Lodge Dank well soft / Lodge Dank well soft / Lodge Dank well soft / Lodge Dank well soft of the well so		0.0'			In-Spoon:		16-18'' to	ML SIH WHLL Clay -40, Moderately Scikal. 84. Soft. Darn gellowish
13.5 13.5 13.5 13.5 13.6 13.6 13.6 13.6 13.7 13.6 13.7 13.7 13.7 13.8	7 1						l lon	-
13.5 13.5 13.5 13.5 13.6 13.6 13.6 13.6 13.7 13.6 13.7 13.7 13.7 13.8	115			Ç.	7.0	Ag.	5-12" I	ML SILF WITH FOU Clay
13.5 14.5 15.5 15.5 16.5 17.5 18.5		· · · · · · · · · · · · · · · · · · ·		C			[~~{	H15041. Vain 37.
13.5 13.5				-9C-			12-204	SOU SILL SUBJECT
5 (c-20" ML Si/f with sine clay. 25-35 Pan ly sorted. Masterial y shift. Masterial y shift. Masterial y shift. Masterial y shift. Masterial y shift. Masterial y shift. Masterial y shift. Clay. 80-20 (call sorted.) Clay. 80-20 (call sorted.) Moist 50 ft to made while y Moist 50 ft to made while Moist which find sand and sine Clays. Partly sorted. Cary while Macy. Shift. Dan's 4 flows h Macy. Shift. Dan's 4 flows h Macy. Shift. Macy. Shift.							25	17) Tack
155 7 0.0 24" 0-7" SM sandy SIT. Solt with we fine same and size Clays. Party sched. Clays. Party sched. Six 4: 15 14 Clays. Party sched. Carry. 15 15 Maccon. Sluft? 7-9" ML SIT with sched. Carry. 15 16 Maccon. Sluft? 7-9" ML SIT with scine.	1 <i>3</i> .5			5	0.0	24"	0-6" 5"	n same as above. 5-13.5(12-20")
155 7 0.0 24" 0-7" SM sandy SIT. Solt with we fine same and size Clays. Party sched. Clays. Party sched. Six 4: 15 14 Clays. Party sched. Carry. 15 15 Maccon. Sluft? 7-9" ML SIT with sched. Carry. 15 16 Maccon. Sluft? 7-9" ML SIT with scine.				5			6-20" 1 Clay.	NL 5/7 Let Moscotted
Most soft to mode is tell still. Stitt. 7 0.0 24" 0-7" SM sample sit. Silt with what find some and some Clays, Parly sorted we find some Clays, Parly sorted with Sitt. 15 brain, Sluff? 7 quant silt with some - ela. 65.35. Hoorly sorted		-		7.0	, <u>, , , , , , , , , , , , , , , , , , </u>		MEXU	PICLE
5.5 7 0.0 24" 0-7" SM Emply 5.14. 5:14 With was fine semi and size Clays. Party 50 Head Caryland Wary 5.44. Dank 9 & 11 curs h Macyn, 51 wf? 7-9" ML 514 with being Clay. 65.35. 1007/4 507/4		- -					cia Mois	7.80-20 (2011 Settler) -
		_					7 17 6	·
	<i>4</i> 5.5	_		7	0.0	24"	0-7" S	M samely SIL. Silt was fine some and some Brown Sorted Ceryant
		_		15			1677 1677 1874	50.41. Den 15 9 = 1/0 (0.36)
And a Miles Pg 2 of Sp		-		14			7-9" n	12 5/14 with sering - 1. 65.35. Hearly Safed

eologist's Signature Called And Date 77/2; Reviewer _____ Date __ Pg Z of

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PH	HLIP	SER	VICES		atigraphy Fie	ld Log	Facility Kant Project Livil Tisfal
Date	2/7 Method	/O	- 12 - 60 m n - 1	Field Geologist	Magne		Location Type: Sall Boring Only Well Test Pit Total Depth
75)(11)E	12/1	1/9825" VAIVII	21 x2"50	if Spici	<u> </u>	245
Sa	oth of mple bgs)	Sample ID	Blow Counts (per 6")	Total Organic≤ (ppm)	Sample Recovery (Inches)	Munsell Co Indication	scription: Sample Interval, Unified Soil Class II for, grain siza, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.
	0.0			Breathing Zone: In-Spoon: Headspace:		5111	SW/SIM Silty Sancine Sancine Sancine to the few sorted, Softm Los
							Jun gry.
			3 7 d- PD	00		Clar Sork Very brow 11-18" S' anol C gray 18-24" M determined	Meand of the and in 10-75-15 family soft. Dark gell wash so it has it has been with sitt for the soft with soft with soft with so it has been with some with some with some of the soft many so that with some of the soft many so that it is the sound that it is the sound with so it is the sound with so it is the sound streaks want to so the sound with for some some with for some some with for some some with for some some some with for some some with for some some some with so it is in the sound with so it is all in the sound
			30000	0.0	27" 0	- 5" 517 Horly 1414.5	Sandy Siltand Clay. Softed war we to I off. Dark yettow-ish

							Location ID	MW-128-I	-ī_
(CEE	CES	Soil Stra	itigraphy Fiel	d Log	Facility _	KANL+ PHISTIJA	
	Date	SENY	/ICES	Field Gaplogist			Project Location Type:	<u> </u>	<u> </u>
	2/	7/01		Salarry	a Magn	usc in		y /1 Well _ Test Pit	
	Drilling Method 75 (N) E	14.75"00	,825-CD	Sampling Method	1 Sizes	17	Total Depth	5	
	t)(N)C	15,617,7174	1///421	X XX /A/1	1 ://		conption: Sample 1	nterval, Unified Soil Ci	ss ID.
	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Munsell Col indication o	lor, grain siza, som of contaminants loc stratigraphic d	ing, moisture, compact dor or sheen), and gen escription.	ion, erai
	0.0'			Breathing Zone: In-Spoon:		8-24"	SW Fine	sand with	(n
		¦		Headspace:		Silv	ر الاي القال القال القال القال القال القال القال القال القال القال القال القال القال القال القال القال القال ا القال القال 25 11 60	i Piethich Ar	
						Scried	1.1010 137 1 1.101 K F	5-25 inco to the Land W	11/4
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l ()	eologist's Sig	nature 4	Arm 19110	Date 1/6	7 Reviewe	r	Date _	Pg <u>4</u> o	' ≰

	PHILIF	SER	VICES	Soil Str	atigraphy Fie	ld Log	Project WELL IN STALLATIC
	Date Z CI	C 0 511	D miles	Field Geologist SA/AMAG Sampling Method		*.	Lecation Type: Soil Baring Only Well Test Pit Total Depth
	LAR-	HSA,	14016112m	15x2.0	Split:	الهاف صوح	7.0
	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppml	Sample Recovery (inches)	Munsell Co	scription: Sample Interval, Unified Soil Class lor, grain size, sorting, moisture, compaction of contaminants (odor or sheen), and general stratigraphic description.
	0.0'			Breathing Zone: In-Spoon: Headspace:			OGGETT - FILL
ľ						NOT A	
-			39	104	12"		SM SAND + SIH
ŀ	-		50			(COBBLE	S ARE SUB-ROU,UP.
-	-	i	24			POOR/4	SORTED, DRY.
ľ	-				•	GEEEGO Como C	ISH BROWN WHILL CREEN STREAKS.
						INCRET	FINES TOWARDS
					, 	44E 604	bu
_			15-द्या-द्य		120-00 100-000	NUTL	-OGGED
	-		6	.∈ C	12"	ci moi	tive Sound with Silfy fine of Medicinal Control
	-		7			Mcc	stite metionedicumate stite metionalis um david gray. Organic
	-					E-12"CL	Heryrowth Fine sult
	-				,	Crea	to walnum gray
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_	-						· · · · · · · · · · · · · · · · · · ·
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			111	70v Date 1//0			Date Pg of

		T	F2888123	1			Facility Kond
••.		_	PA-1-2-16-1-16-1-16-1-16-1-16-1-16-1-16-1	Soil Su	ratigraphy Fie	ld Log	Facility
(PHILI	SER	/ICES				Project Will Tortal Chica
	Dete	<u>-cn</u>		Field Geologist			Location Type:
	1 1/2	31/01		Solowas	ola IMas	สกับเลือนก	X Sall Baring Only Y Well Test Pit
	Dilling Method	1	i4,25'07	Pambind Wagon	`	 -	Total Depth 7/ - /
	Li will had	och Acces	د ادار سراس میس	Sampling Mathod	Solit P	ير ال	24.5
	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Geological De Munsell Co	escription: Sample Interval, Unified Soil Class ID, lor, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.
0	0.0.	<u> </u>	<u> </u>	Breathing Zone:	 	NOT LO	
				In-Spoon:		514	
3				Headspace:			
)			,	, c2	12"		GM sandard with which
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			24			المعمر	Louis Greenish Brack
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	├		14			9,000	with great strenks
	<u> </u>].	Inc.	enghish with the continue them
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4				·			25.4 - 2
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رت ع.		PHOTO	,	ÚD	12"	0-4"5	d Zemectopers
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·	_		10	i			not to sit, producedly
	·		\mathcal{M}				ed. Most Soft. Dusky-
		*	· · .				wn.
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1	<u> </u>			·) the saver with not
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	_ 1	·		·			was device of me whole
		·	1			ivery (ine red and white
F					}	ے بیمنام کا	S
			<u></u>				
55							COGED
Post -			ا زسی	0.09	POUT PERCURY	C- 4" 1814	- clay works few
-	_		12	-	Au	5013	f. well sorted. Joff
	_			.	t .	14701	st. Medicin day
			F	İ		ب ين آري	with moderate brown
<u> </u>	-		15			シ たてを	neks. Sieff Lander Youty
7.TL		//,					
G	eologist's Sig	nature	Sundill.	11474 Date 1/71	7.4) Reviews	·r	Date Pg i of

	PHILIF	SER'	VICES	Şail Stı	ratigraphy Fie	ild Log .		Hera Man-123-TE. Kent 2011 Inches 1
	Date	31'0'	,325+0b	Field Geologist Strong Method	1		Total Depth	niy / Well _ Test Pit
		心性認		1/21,211	Split Si		26	<u> </u>
	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Munsell Co	lor, grain siza, so:	Interval, Unified Soil Class ID, rting, moisture, compaction, odor or sheen), and general description.
	0.0'			Breathing Zone: In-Spoon: Headspace:			.cGGED	
		Photo	∂ & ∂.	0.0	12"	NO	AL STIN I SIL 100 Unge St	i i
-			15-15		Wixan.	NOT LO)G.G.ED	
			\$ \$1 \$0	O/C	12"	throw Sm sit to	iehout. Bardy Osand	srit 70-30%— ruederately oft. Dark
	-					ML Some	M.4112.	coldinately with wear park gray
	_			·		105-	gage D	
			19 12 12	0,0	151	0-12" St July V	ery Ding Livel 15	silt with e sand and octeols well ark grow
						NOTL	007 GE	0
			151515	O.0	12"	10-40	<i>۱۹ بنا ۱۹ ج</i> 3 جسلانی از پ	Someciay. 24. Well Softa. Stiff. Dark - ance well.
_			47-6-			NOT L	_00767E	D -

Geologist's Signature ANNAL MARQUE 131/6 | Reviewer _____ Date ___ Pg Z of _____

				Sail Str	atigraphy Fiel	d Lag	Location ID MW-123-T-7 Facility Kent
	<u> </u>	SER	VICES	Field Geologist		· · · · · · · · · · · · · · · · · · ·	Project /Let Ling +cail Location Type:
li.	1/:	31/01	•	Salawah	Magni	1501~	Sall Baring Only Well _ Test Pit
	Drilling Mathod	1 14.25 40 - Lich Acc	0,825#0 ESS	Sampling Method 1.5', 2"		poer~	Total Depth 26.51
	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (Inches)	Geological De Munsell Co indication	escription: Sample Interval, Unified Soil Class ID, alor, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.
15	0.0'			Breathing Zone: In-Spoon:	1211	0-12"01	i Clay with little to-
				Headspace:		no	siltor rang fine sand.
,				0.02			1 sorted . wei . Striff.
: <i>tt</i>						मेंद्री ।	it gray. Organic otange
<i>(u</i>)							OGGED
16.5			2	0.0	12"	0-12"	"L same as above.
1			_	0,0	. ~	jetan a	of shoe: 5m/ml siltath
	_		<u>2</u>			very fi	ine social,
į				•			
17.5						NOT L	OGGED
(J			PHOTO	טים	12.1	0-8" C	L same as above.
j l							5M very fine sand with
			5				e fine sancis and little is
HU122		·	18			ارن د	wys. Poorly sorted. Wet.
FSiH			20			Loui	2. to medium dense Squei
				·		Gyv.	rish black
	_	ļ	-				,
19		•					GGED
<i>i1</i> 5				6,0	17.11	17-17 1 SA	A Time Sand with little
<u> </u>			12	0,0	124	۰۰ تین ۷ زیمنه	no Eithwell groced.
		ļ	19	İ			. Locale mainmainte.
	_		77				ayish black. Redand -
' [-					.	نسائس	rile specs
205							shift autop
21.0					<u> </u>	NOT	LCGGGED SP Same as above.
	_	.	3 %	0.0	12"	6-12"	or same as
	_		50		Struly)		
1715 L			7), 1,	1/1/0 1/2		· · · · · · · · · · · · · · · · · · ·	Date Pg 3 of 5
	Beologist's Si	gnatura	4/13/13/14/	Man Date /5	O Review	er	
•				J			

PHILI	SER	VICES		atigraphy Fiel	ld Log	Location ID 1100-123-1- Facility Kent Project Well Enst
	31/01		Field Geologist Salama	ah Ma	gnuscin	Location Type:
Limit	eal. Lees	2012 Her.	1.512"	Split 8		26.5
Depth of Sample (ft bgs)	Sample ID	Blaw Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Munsell Col Indication o	scription: Sample Interval, Unified Soil C or, grain size, sorting, maisture, compac of contaminants (odor or sheen), and ger stratigraphic description.
0.0	Water. 025 13-		Breathing Zone: උද්) In-Spoon: Headspace:	12 "	0-12" \$) Sane as above.
					NOTL	CONTED
		1500	O. D	12 "	121.200	p some as abone. increase in silt.
					10071	LOGGED
		6	0.0	12"	0-6" SP	Same as above.
- - -	013HS	() (;			no sil Medil qray b	clay with few to !t. well seited. More um stiff. Medicumda ith brownish grapsto ic wordy diloris.
			1		NOTL	CGGED
- - -		16 75 26		12"	to no netil Gray white	SP fine Sand with his fine 3, it you it sorth and not won dense to medium dense ish black. Fine Rectar
-			·			shoe) for Silfy clar
					Meder vero s green	rately sorted. Very dis hiff, phoducin light with greets h blue hears.
						upth 26.5'

Geologist's Signature dans de Date | 31/0 | Reviewer _____ Date ___ Pg ____ of ____

PHILIP	SER)	/ICES		tigraphy Field	Location ID MI - 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Date 2	5/01	1	Salama	h Mag	TAULE _ Soll Baring Only X Wall _ Test Pit
Driffing Method	14.25"604.	5.2500 5-Cimmer	Sampling Method		143
Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organica (ppm)	Sample Recovery (inches)	Geological Description: Sample Interval, Unified Soil Class ID, Munsell Color, grain size, sorting, moisture, compaction, Indication of contaminants (odor or sheen), and general stratigraphic description.
0.0'			Breathing Zone: In-Spoon: Headspace:		Fill not logged
			6	18.11	ML - grading fines to british silt w/ fine saina saina 15% dags raed yray, moited at bottom
			0	foot Recent	Bentonike Chaps -
	·				NOT LOSIGIED
	·		Ö	12"	Sorted Moist to Well Modeling
					2-12" Sim sandy silt. Silt _ with some fine sand. poorly sorted wet-moist. poorly sorted wet-moist. Dank gray organic poets.
-					NOTLOGGED
			0	12 "	17-12" Same as above." Increase in Sill. Wet.
,					NOT LOGIGED
			0	12 "	Scrip Sin fine Sandwith Some Sith Poorly serted. Littuet very loose etipark gray Increasing sand.

Geologist's Signature Standillage Date 45/0 Reviewer 1 10 10 Date 2/12/6/ Pg 1 of 2

1	SER!	VICES		tratigraphy Fie	aid Log	Location ID AW 12+2 Facility Keint Project [woll Linging]
Date 2 Drilling Method	2/8/6	5/	Field Geologist Ci ((1))() Sampling Method	hMac	Inuson	Location Type: Soil Boring Only / WellTest Pit Total Depth
Lilling Method	14015H9 <u>A</u> Acces	wher 14,25°cD 25,25%b		Splits	poon	/ CT
Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Muliser C	escription: Sample Interval, Unified Soil Class plor, grain size, sorting, moisture, compaction of contaminants (odor or sheen), and general stratigraphic description.
a.o.			Breathing Zone: In-Spoor: Headspace:		NOT	Legged
			Ø	12"	0-12"5	W Same as a bone.
						LOGIGIED
	,		0	12"	工心	W Same as about.
					Clay.	ML SILF with Some MB Sand 60-40: Poeil d. Dy Shiff Dankgran
			·			-og(,ED
_			0	12 "	0-64 SM Silt Foor	1 Sandy solt. With some, sound. by sorted with Loca Kignay.
_					Total	al Dooth 18'
-	-					
						; - -
					·	- -
				·		· _

Geologist's Signature Adamshi / Mas Date 25/00 Reviewer Adamshi Mass Date 2/12/01 Pg 2 of Z

				Soil St	tratigraphy Fiel	ld Log	1	MW-125-II
	PHILIF	SER	/ICES					1 Indal
	1	/13/0		Field Geologist	ih Maa	nusch	Location Type:Soil Boring Only	Well Test Pit
	75 CIV	10 1415">5	2) \$125" 2) Horning	2 × 1.5"	Splits	DCO/	Total Depth 3016	5
	Depth of Sampla (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organica (ppm)	Sample Recovery (inches)	Munsell Col Indication (lor, grain size, sorting. of contaminants (odor stratigraphic desc	
5			3	Sreathing Zone: In-Spoon: Headspace:	24"	しぜい	inet. Cery	ell seltere
			4			g vice 6	Y 5/14 5	sand. Fine- sortal. Upf.
	_		4	1.	1	100 S	e i in i old	1 WHL -
-			.+				1	throughout.
-	-	·				Stiff	Medicine	ایان سادهنا
-	_			• .		21-24"	M 51145	and Pire
-	_					4 1		Morst-Ded- Knedicon
	_	-	8	<u> </u>			· \ / / / -	sabore wet
-			11			12-22" 5	et soft. Sp fine Sa	nd little -
	- -		15			to no	7 14. 10-511	licundense.
-	-		20	·		Direct	and things plack. Rec	Y and white
	-					уреци. 19-24 ° М	L 5/1+ with	La Soine
	-					014	divel Him A	lection gray.
-		N						. —
Ge	ologist's Sig	nature	Mulana.	is Date	Reviewer		Date	Pg 3 of 5

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· -			7055	Soil St	tratigraphy Fi	eld Log	Location ID MW-125-II Facility Kent Project Will Installation
	Date 2	/13/0	}	Fleid Geologist	h Maay	14.50M	Location Type:Soil Boring OnlyWellTest Pit
	75 U	14:5500, NE 130	825"CD	Sampling Method	5" Spli	+Spoori	Total Depth 30.5
	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6*)	Total Organics (ppm)	Sample Recovery (Inches)	Munsell Col Indication o	scription: Sample Interval, Unified Soil Class ID, or, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.
A5	0.0'		4 4 4	Breathing Zona: In-Spoon: Headspace:	204	Sow Sorth Islac 3-16" 5 Sorth Sorth	m/ML sandy sitt. — Laith some sand, 75- Maderately sorted. St. Loose. Dark medium
	· · ·					16-20" M We Shif	LI sorted Moist Maliuma F. Medium gray
65			2350	O		6-24"Ci Silt gray green	same as a soire. L Clay with few well sorted. Melium Moist te dry. with wish gray hire. increased actions—
X5-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			Do 50 Medinoson Donk P 3- 24" M Clay	1 Silt with clay. 2. Poly softed wet. and stiff. organic aldoristuroughout. Medicin Jone 5" Greenising ray. L silt with little 75. 25 in out rate; 1. Wet. Dark medium whedium shiff.
eleir G	eologist's Si	gnature b	ramell!	My Cate	Reviewer		Date Po 4 of 5

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TVI			STATE AND				Location ID	<u> </u>	
	77.522.5]		Soil Stra	վցութիչ Held	d Log	Facility	C+Tic	
*-(PHILIF	SER	/ICES	·			Project PD	temental (1)	Site (har
	Date	 		Field Geologist	1 .8 .		Location Type:	٠م	
	1 2	113/	01	1 Da lama	h Was	124 20-1	Soil Boring C	only West _Te	st Pit
(Á95°0)	Dritting Method	76701	1 E	Sampling Method	SP	1, + Sport	سر Total Depth	YOU E	
14-25°00	CLEOPY	2016-31.T	11) Homes	Sampling Method 2, 1" diamet	er a cet a	ate liners		<u> </u>	
15 U) U)	'	<u> </u>			Sample	Geological De	scription: Sampl	a Interval, Unified S ording, molsture, co	od Class ID,
	Depth of Sample	Sample 10	Blow Counts	Total Organics	Посочегу	Munsea Co indication	ior, grain acc, ac of contaminants	(odor or sheen), an	d general
	(ft bgs)	•	(per 6")	(ppml)	(inches)	·	stratigraphic	description.	
30.5	0.0			Breathing Zones	24"	0-70"	CL clas	1 WITH S	(t -
.		PHOTO	4-10:40	In-Spoor: Headspace:	T	35	-15c LUG	i Sorteat	KK 13t
	 -	Lier	10	`_		بنعها.	phichel un	devise of	geruic 1
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		i	FC.			(Z)	117 < 14	-6-4-6-6-	
y						112 74	174082	در ځزالم	•
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						20-21	sh inedi	um grail	~ Juli Ca.
						חת נ	いっていししも	SCL ZOLLAGG	النك في الم
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		CERVICE CONTRACTOR		Soil Strati	graphy Field	Log	Location ID MW-12(0-I Facility ICENT Project Well Install RI Z
	Date II 2	SERVIC	<u>-</u> .	Field Geologist ASYA Gran Sampling Method			
	Orilling Method C1 EOPS	obe		2'x1" ac	etate	liver Geological D	Live Sample Interval, Unified Soil Class ID,
	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Munsell C indication	olor, grain size, spitting, moleculary of contaminants (odor or sheen), and general strationaphic description.
Ò	0.0			Breathing Zone: In-Speon: Headspace:	9		surface soil GP, sandy—gravel
	_			D		-	wood debris
	 					2.5 - 9	GP sandy gravel, dry
							to coarse gravel
							5/2 2.57 color - Poorly sorted
2		MN-126-I- 2-4-1102			8	gented be f	ill material (gravely sand)
4				0	8	0-4"	SM very fine sand w/ some silt, very loose, dry
Ŋ				0.1			moderately sover, root debris, 5/4 loyR colors
			. 在本于西部			4-6"	SM same as above but wet, very fine sand w/
	_		7231116			10-8"	Some silt SM sata silty sand,
							high organic contains
							lots of wood/twig debris medium dense, -
			o Janua				2.5/104 GLEY 1 COLO
		٠.	A CONTRACTOR OF THE STATE OF TH	A SECONDARY			susilty sand w/some mottling in shoe of sample, moist
1	, [1/1	141	1/2/2-		Date Pg of
.ر	geologis	t's Signature	1 wasy	MAY Date	<u>" 2002</u> Re	viewer	
Name of 1			,	1			

MW-126-I Location ID Kent Soil Stratigraphy Field Log Facility Project Well Install/RIZ Location Type: Field Geologist Sail Boring Only _ Well _ Tast Pit Tasya Gray / Amy Side! Date 11/21/02 Total Depth Drilling Method 2'x1" alltate liner Geological Description: Sample Interval, Unified Soil Class ID, Geoprobe Munsell Color, grain size, sorting, moisture, compaction, Sample indication of contaminants (odor or sheen), and general Total Organics Depth of Recovery Blow Counts Sample ID (ppm) stratigraphic description. Sample (per 6⁻) (inches) 0-1" SP medium-coarse sand , (ft bas) Breathing Zone: 3/104 GLEY 1, WE+, 1005C 0.0 12 tr-Spoon: poorly sorted, few Headspace: 1-3" My silt w/some few & 0.2 poorly sorted, 4/3 2.54, dry-moist, medium_ dense, 3-4" Metter clayer silt, moist, medium stiff well sorted, slight -mottling, 4/3 2.54 _ color 4-12"CL clay w/a little Silt, stiff, lots of mottling, very well sorted, plastic, moist little cementations (orange nuggets) geotech sample (Looks like gitt. 14 In shoe) SM sandy silt, wet, 10 18 very fine sand & silt, 3/5 Gy color, soft, moderately well sorted-

CONT

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Geologist's Signature Naury Mary Date 11/2/07 Reviewer _____

Date ____

Pg Z of 7

	PHILIF	SERVIC	ES		graphy Field		Location ID MW - 124-I Facility Kent Project Well Install / RIZ Location Type:
		11/02		Field Geologist TASYA (1704) Sampling Method	Amy ?	Sidell	VSoil Boring Only Well Test Pit Total Depth
	Orilling Method Geop	robe		2 X ace	tate 11	Geomaicar	Description: Sample Interval, Unified Soil Class ID, Color, grain size, sorting, moisture, compaction, color, grain size, (odor or sheen), and general
	Depth of Sample (ft bgs)	Sample ID	Blaw Counts (per 6")	Total Organics (ppm)	Recovery (inches)	indication 	stratigraphic description. SM Silty Sand, Same
t.	0.0		•	Breathing Zone: In-Spoon: Headspace:			sand content, soft, lost, wet, moderately sorted
							on sandy silt, wet, very fine sand esilt, 315 GY color, soft, moderately well sorted
						16-18"	as above w/ higher
							100se, Wet, moderately sorted
12				0	14	Y	P fine & very fine sand, nedium dense, wet, moderately sorted, 3/567 color, red & white specks
	<u>-</u>	·				2-10	sp gets fiver, still
	-					10-15	'SM silty sand fine- very fine sand & silt loose, Wet-very wet,
	-						moderately sor tect,
						15-	Stiff, noist, well sorted
1	Geologis	it's Signature	Autosy	Myray Date	11/21 W RE	viewer	Date Pg3 of

	PHILIF	SERVIC	ES		igraphy Field	Location ID MW-126-I Log Facility
	Date	1/02		Field Geologist TOSYA CW Sampling Method	ray / Avr	X Sail Boring Only _ Well _ Test Pit Total Depth 7 S.
	Geopr	obe		2' × 1' a	etate	Geological Description: Sample Interval, Unified Soil Class ID,
	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Munsell Color, grain size, sorting, molecule, both indication of contaminants (odor or sheen), and general stratigraphic description.
14'	 a.o.		*	Breathing Zone: In-Spoon: Headspace:	12	0-6" ML silt w/little- no sund, Moist, stiffic medium stiff Well sorted, 3/5 Gy color 6-6-5" piece of wood in tact
	-					moist, little to no sand well sorred, medium stiffness, 5/5 GY 7.5-12 CL grades to silty Clay, Moist, soft
						Well Sorted, organic material towards bottom, little to no sand 3/564 color GLEY 1
16		MW-126] - 16-18-	I			Collected for geotechnical analysis. Appeared to be silt and clay
18				0 0	20	0-3" CL soft wet clay, uniform color, some organics, very smooth, no sand, very well sorted 3/5 GY GLEY I plastic
con	Geologist'	s Signature /	Vatary 1 A	Myray Detete	(21 02 Rev	newer Date Pg 4 of 7

							Location ID	MW-126	
ſ				Cail Strati	graphy Field Lo	og g	Facility	Kent	—— <u>D</u>
,				3011 0 11 0 11	- ' '		Project WL	Il Installat	ion KIZ
(PHILIF	SERVIC	ES	Field Geologist			Location Type:		ľ
1	Date			Tarus Gara	w/Amu	_Sidul	🔀 Soil Baring	OnlyWell	Jest Fit
	11/21/0	1		Tasya Gro	-1111	}	Total Depth		
	Drilling Mathod			2 × (OCL+	-at-e live			28	
	GEOPY	obe		DXI acei	W C 1100	Geological De	escription: Sam	ple Interval, Unifie	d Soil Class ID.
	<u>-</u>			Total Organics	Sample Description			sorting, moisture, ts (odar or sheen),	
	Depth of Sample	Sample ID	Blow Counts (per 6")	(bbm)	Recovery (inches)	noiteation	stratigrap	hic description.	
	(ft bgs)			Breathing Zone:		2110	1 mod	ium Stif	f clay
const	0.0		ļ	In-Spoon:	5) - C	c- 11020	white	chilote
			*	Headspace:		17 18	135 WEI,	11. 1000	deamiter
						~ Ve	xy 5mal	u - lcm	CATOMINIO (A)
		1				/ V	ery well	SOCTED OF	therwise
						\ ng	5cond	, no mot	mother.
			ł			م کی	lecaying	organic	mar to
	_		ŀ			b.	erhaps,	as it app	ears 10
		l l				-	follow	organic	Marter
						9=14-16	Mostin	in 9-1	4" interval
	 								
			1			14"	1 SM	very fine	-fine
						- 20			- darately
, V	 	1							oderately
]					Well S	orted, M	ediuwi_
			ļ				dons	e, wet,	
						ļ	2/10	1 GLEY 1	_
	 						2/10 5-000.0.	rackspe	icks visable
						•	307100	120-1	
						5	2 S	sand w/	a few
20	`				24			fine is m	
	´	MW-126		ļ	but	N .	Very	ns, dens	PHENY
		- 20-27	, 7		compacte		,51 M	13,0ens	a coocks
	<u> </u>	1102			liner	_	wet,	LEG 3 M NH	especks,
					somewhat	` 	mode	rately s	onted _
	-						3/10 Z	3G1 GIEY	2 color
	 					< 111	1+ C~	anatar	Innical T
	_					1000	1 75	Jeu rec	——————————————————————————————————————
						ano	WS IS	geotect, loggi	ng+rom
			1			10	U 1=T/O=	in Shoe	
			ļ			They was	せいい	IN CIVER	
^ /	n l	l l				_1	<u></u>		$Pg = 5$ of \overline{Z}
	<i>y</i>		1/21114	Myray Date	11/2/61 Revi	ewer		Date	, A
(Geologis	it's Signature	: / William Fill		(- <i>y</i>				
100000			•						

,	PHILII	SERVIC	CES		tigraphy Field	Log	Location ID MW-126-I Facility Cen+ Project Well InStall RIZ
	Date	21/02		Tasya CW	y Amy	Sidell	X Soil Baring Only _ Well _ Test Pit
	Drilling Method	robe	 ,	Sampling Method 2 × (etate	iner	2 % escription: Sample Interval, Unified Soil Class ID,
	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery	Geological D Munsell C indication	olor, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general
22				Breathing Zone: In-Spoon: Headspace:	26	12-16	SP Same sand butter NH, medium dense, fine grained w/few redium is very fine, little to no silt, 31.0BG GLEY 2 color moderately sorted "SM sandy silt w/ alot of organic matter, soft, wet, sand is very fine, moderately well sorted SP sand w/lots of, organic matter, wood is roots medium duse, wet, moderately sorted, wet, moderately sorted, mostly fine grained, red is white specks
24				00	20	0-21"8	SP wet Sand, mostly fine grained, medium dense, becoming slightly coarset @ ~ 12", modurately sorted,
const	Geologist's	: Signature	Jatagy J	Date M	21 N Revie	ewer	3/10 BG GLEYZ with red & white specks Date Pg 60 of 7

100		·			Location ID MW-126-I
			Soil Strati	_{graphy} Field	Lag Feellity Rent
	CEDVIC				Project W/// LYS/ASY 11/2
	SERVIC	E-3	Field Geologist	1 American	Side Y Soil Boring Only _ Well _ Test Pit
W,	121/02		Taya Gray	Avva	Total Depth
Orilling Method			Sampling Method 2'X ACC		1 28
Geor	probe		2 × 1 ace		Geological Service and an engine moisture, compaction,
Depth of Sample	Sample ID	Blow Counts (per 6*)	Total Organics (ppm)	Sample Recovery (inches)	indication of contaminants judge at a second
(ft bgs)			Breathing Zone:		21-24" SM sllty somerwetz
0.0'			In-Spoon: Headspace:	<u>-</u> -	I WASTING ALMSO, MODULO OF
			Tiensapare.	· •	NION Sorted time - =
_					very fine sand & silt
; <u> </u>					red & white specks still
 				<u> </u>	present, 3/10 BG GLEYZ
_					PVESCIT; NO ZET
			0	19	0-3" ML silt, medium stiff,
 				,	Wet, well sorted, no sand
					3/104
				<u> </u>	3-7" mr Clay Silt grading to silty
			0		Clay moderately well serter,
_					organic fragments, medium - dense -
	}				7-19" OH organic silty clay
-		ľ			medium dense poorly sorted
_			}		no sand tonoforganic -
		-			matter, moist
					(Picture)
					bottom of boring :-
)					DOTTOM OF 25 10)
<u> </u>		1		İ	_
	l l				-
	· [-
-				1	
_ =		l	hall Date		
		/ Imail	Hind III Date	11/21/02 A	eviewer

			Soil Strat	igraphy Field	Log	Location ID N/W-127-S Facility Kent Project Well Install RTZ
Date	P SERVIC		Field Geologist Army Sidel	1/Tasy	a Eway	Location Type: Soil Boring Only Well Test Pit Total Depth ;
Orilling Method			2 × 1 ace	tate 1	Ther Geological Di	and Sample Interval, Unified Soil Class ID,
Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")		Sample Recovery (inches)	Munsell Co indication	olor, grain size, sorting, indicate, some of contaminants (odor or sheen), and general stratigraphic description.
0.0			Breathing Zone: In-Spoon: <i>O</i> Headspace:	12"	ary	nalt with a little sand, lose, poorly sored (fill)
			1.1	6"	(NDF-8	veily sand, slightly moist, c, poorly sorted (fill) enough for sample) sanck-ned-coarse, gravels are
3/	MW -127-5 6-8-1102			10''	no rea	e sund, moist, well grandson
					silty di sorted	ay in shoe; mottles, welt
					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Fun Starting 1-10-03
			a.			Lacra del actori las Como III
					_	

a				Soil Strat	igraphy Field	Log	Location ID MW - 102 - 5 Facility KPNT Project WWN INSTAN / RIZ
Ī	· :	SERVIC	ES	Field Geologist TOSYN CWNY	1 Amy S	idell	Project WAN LYNSTAN TRAL Location Type:
	11/19/0	1		S			Total Depth 7Ft bgs
	(V60 bro	10e		2 × 1" 0 (6)	rate li	N U Genlagical D	Sample Interval, Unified Soil Class ID.
	Depth of Semple	Sample ID	Blow Counts (per 6*)	Total Organics (ppm)	Sample Recovery (inches)	Munsell Co indication	of contaminants (odor or sheen), and general
0	(ft bgs)	MW-102-5		Breathing Zone: In-Spoon:	12	0-6 G	P gravely sand, organic matter
	_	0-2-1102		Headspace:		10	ose, moist, poorly sorted ading to larger gravel pieces
				1.0		10-10 1/2	metly marel little sand
						10-12 1	nostly gravel, little sand — ooks luke regular fill, grey —
	<u> </u>					- 1	ose, dry
							- 11 Cul
2'		MW-102-		0	9"	poor re	covery due to gravelly fill ding to GM; moist, loose, ysovied, 4/2 7.5 yR
						poort	jsovited, 4/2 7.5 y/2
4′		MW-102-		1.4	13"	0-3 G	p sandy gravel 4/27-SYR orly sorted 1005c moist
'		4-6-1102	1	17		þ0	orny sorred twice moist
			STA -			3-11 5	M silty sand, moist, med. stiff/dense, interbedded—
						/N	iththin lavers (<0.5cm)
ńą.	-					0{	-clay & silt; 3/10cr glcy2_
	Louis		AFIL F	1-10-03	3		ML silt, 3/10g gley2 moist, med stiff, well soved
				1		(Jooks	like abing to start raining listure influences PID)
6	1		M. D. P. C.	13	8 11	n-8"//\I	silt w/clay, med plasticity, 10 y gley 1; moist, mod
		Agging Country Commission According to the Country Commission of the	emerken inn prompter in mele dage energen	enter :	-		Se Livi to indiffes (stack) i
							ntsheen noted in top 2" — Unfine sand stringer at 8"
- 7	₇ '		Cho	dodall som	11(19) D. Re		Date Pg of
· ·	Geologis	t's Signature	WINA	Andell Date	mtolo zue		

Detail (1902) The property of sample (1920) The property of sample (1920) The property of sample (1920) The property of sample (1920) The property of sample (1920) The property of sample (1920) The property of sample (1920) The property of sample (1920) The property of sample (1920) The property of sample (1920) The property of sample (1920) The property of sample (1920) The property of sample (1920) The property of sample (1920) The property of sample (1920) The property of sample (1920) The property of the property of	PHILI	P SERVIC	ES	Soil Stra	tigraphy Field	l Log	Location ID GP-123-S Facility KCn.+ Project KCn+wcllins+.2002 Location Type:
Depth of Sample (PSC) Depth of Sample (PSC) Depth of Sample (It bgs)	II /(0/02			Field Geologist Amy SIDEV	1 / Tasya	cray	Sait Boring Only _ Well _ Test Pit
Depth of Sample ID Scannice (per 61) Total Organics (per 61) Total Organics (per 61) Total Organics (per 61) Sample (per 61) Seather 25-net (per 61) S	Drilling Method	Depth of Sample ID (per 6")		Sampling Mathod 2'acetate	liners	ı"d.	2.5
march to new hole b/c got refusal The proof of growing or to sample, chy, look, party sorted The growel w/a little sand, dry loose, poorly sorted Refusal again. No sample recovery. Unable to sample this location due to fill material. Geoprobe rods cannot penetrate the rocks	Depth of Sample			· .	Recovery	l Muncell (Color, grain size, sorting, moisture, compaction, n of contaminants (odor or sheen), and general
GP gravel w/a little sand, dry loose poorly sorted Refusal again. No sample recovery Unable to sample this location due to fill material. Geoprobe rods cannot penetrate the rocks				In-Spaan:	\2"	4" aspl GP gra rock to sa	nalt NCL Walittle sand, too — y to get-good recovery or _ mple, dry, loose, poorly sovied
Refusal again. No sample recovery. Unable to sample this location due to fill material. Geoprobe rods cannot penetrate the rocks	(mared	to new hole b/c got refusar
Refusal again. No sample recovery. Unable to sample this location due to fill material. Geoprobe rods cannot penetrate the rocks						GP gro	wel w/a little sand, dry - ose, poorly sovied =
Material. Geoprobe rods cannot planetrate the rocks						Refu. reco Unak	sal again. No sample- very ole to sample this
Date Pg of						Mat	erial. Geoprobe rods_ not penetrate the_
Geologist's Signature / MAN WANDATE LI 19 0 ZHeviewer Date Pg of		- 12 C	(A/21) 2	Jone by	1-10-0)		
Geologist's Signature / James Date Pg Date Pg of	- - -	24. 19 mg - 14.					·
Geologist's Signature / / Mary Way Date Lift 19 0 ZReviewer Date Pg UI				Me			Pa \ of
	Geologist'	s Signature /	/ Joannay	1 (0) 4/24 Date L	<u>[</u>	ewer	Date Pg _1 or

	PHIL	IP SERVI	CES .	Soil Stra	tigraphy Fiel	d Log	Location ID MW-128-I Facility KPM-t Project WIII INStall RIZ
	Date	21/02		Field Geologist TUSYU (1994)	Amy	Sidell	Location Type: X Soil Boring Only Well Test Pit
	Orllling Mathod	irobe		2 × 1 " Q	cetate	liner	Total Depth 29
	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6*)	Total Organics (ppm)	Sample Recovery (inches)	Munsell Ca	escription: Sample Interval, Unified Soil Class ID, plor, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.
Ó				Breathing Zone: In-Spoon: Headspace: O	1(3- II" (3	rooty organic mater, fire gravel, dark brown Pip very fine sand E ilt up to gravel (fine- roanse), poorly sorted, lry, loose, 5/3 107R
2 **;		/AW-128J - Z-4-		0	[1	ana	by geotechnical lysis Appears to be ravelly sand first 6"
		er Pr				sil+n had C sorted	naterial last 5". Shoe L silty clay, moist, well no sand, nottling, notiff, 3/1 1048
4						nd samp	le due to seal
5	- Joa			~0.2 V 1-10.03	14	. 1V	M Sandy silt, moist, nedium Stiff, foorly orted, mostly silt is ery fine sand wisome we sand 415G4 GLEY! organic CL w/a little and, soft, wet, brown
()	Geologist*s \$	Signature M	asya N	MM Date 4/21	ÓV Review	rer	DatePgof

		IP SERVI	CES		atigraphy Fiel	d Log	Location ID MW-128-I Facility Kent Project Well Install RIZ
	Date 11 21/	02	-	Field Geologist Awy Sic	1011/Tox	sya Gray	Location Type: X Soil Boring Only _ Well _ Test Pit
	Drilling Method			Sampling Method	· · · · · · · · · · · · · · · · · · ·	1	Total Depth
	Geor	probe	_	2'x1"	Stample	r acetall ly	er 29
cont	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Munsell Col	scription: Sample Interval, Unified Soil Class ID, lor, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.
Gam.	0.0'			Breathing Zone: In-Speon:	į	5.5-14	" ML silt w/some cby,
				Headspace:			few sand particles,
							Stiff, dry-moist
							poorly sorted, 4/5GY
1	<u></u>						GLEY I color
7				0.2	18	0-4" G.	M gravelly silt, moist
				1.7		٠ ٢	oorly sorted, 415 GH GLEY I color medium
				·			tiff very fin in
			ļ			4-5" GIF	gravelly sand, moist,
						Po	orly sorted, medium
					}	γ	ense, 4/5 GY GLEY []
							IL silt, little-no sund,
ĺ					, "	д	ry-moist, stiff,
:				•			mottles, a little
	_						Bryanic matter, -
g^1		<u> </u>		1. 7-	1/ -	 -	u silty sand, very fine
•				70.2	16	San	nd wisile, moist, losse
	_			1.5		W (211 Sorted, 4/5 GY GLEYA
	**********						- sitt, little to no
							nd or clay moist,
,						, Mi	offles, not plastic -
1/			11/		•		
ι'	Gealogist's Si	gnature ////	(DOGULK) (A)	Date <u>[1] 2(</u>	02 Reviewe	r	Date Pg 2 of 5
			ν	•			

•	PHIL	IP SERVI	OFS.	Soil Stra	tigraphy Field	d Log	Location ID MW-128-I Facility Kent Project WII INStall /RIZ
(Date 11/2		<u> </u>	Floid Geologist	ray/Am	y Sidell	Location Type: X Soil Boring Only Well Test Pit
	Drilling Method			Sampling Mathod 2 × 1 1 ac		1	Total Depth 29
, \	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	· ·	Sample Recovery (inches)	Geological De Munsell Co indication	escription: Sample Interval, Unified Soil Class ID, olor, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.
((0.0	MW-128T		Breathing Zone: In-Spoon: Headspace:	14"	Collecte	ed geotechnical sample s to be a sand —
١.	*	1102	•.,			going	clay in last 5"
13	_			N, 1	1611	0-14" S	P fine-very fine sand with a little silt,
				•8		ļ	wet, medium loose, moderately sorted,
	<u> </u>						red & white specks - 3/5GY GLEYI coloc
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- -					17-16 / W	ML grades into silt V/little sand, very niform, moist-wet,
						0	a little clay (slight ibbons/plasticity),
,	_ _						Well sorted, 3/5Gy - GLEY I color -
15				0	1811	0-5" M	L silt, no sand, littleto clay, not plastic, mois
,				17 (M	ledium stiff, well
		·				7	orted, 3/s GYGLEY H AL silt wickey, stiffer than above, no sand,
7 11						.90	slight plasticity, moist, tiny mottles, well sorted ets drier a bottom
1	Geologist's S	iignature 🕢	mysid	LL Date //21	02 Review		Date Pg 3 of 5

PHIL	IP SERVI	CES	Fleid Geologist			Project Well Install
1//	121/02		Tasya Ewo	ry Am	y Sidel/	∠Soil Boring Only _ Well _ Test Pit
Orlling Method	probe_		Sampling Method 2 × 1 1 ace		,	Total Depth 2 9
Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Geological De Munsell Col	scription: Sample Interval, Unified Soil Class ID, lor, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.
			Breathing Zone: In-Spoon: Headspace:	18	W	some organic chunks, medium plasticity,— some organic chunks, medium stiffness, well sorted clay content increasing slightly towards
			0,7	20	0-17" C VE W 17-20" S	ery plastic, organic Naterial, well sorted Soft, 4/5 Gy GLETI M'fine sand w/ White specks, moist Du moderately well sorted dit Midium dense tos
			0 1.1		0-5" S V 5-9" G 9-20" N	Specific Special Speci

Destribution Mathod Geopro Oce 2' x 1" a cetute Mwr Fine Sand Sample of the subspace S		PHILI	IP SERVI	CES	Soil Stre	itigraphy Fiel	d Log	Location ID NW-128-I Facility Kent Project Will INStull RI 2
Depth of Sample 10 Blow Counts (per 6") Total Organics		1 3	21/02		Flaid Geologist Tasya Gu	ray /Am	y Sidell	• '''
Depth of Sample 10 Sample 10 Blow Counts (per 8 1) Total Organics (per 10 1) Total Organics (per 10 1) T		_	prolo.	e	2 × 1 · A	cetute		29'
5 pecks, moist, wellim of the sorted of the	23	Sample	Sample ID		l	Recovery	Munsell Col	for, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general
3 Sorted 2-3% first Sand with clay, reas while specks, the slightly moist, moderately plastic, moderately otiff 3-23% first sand, little to no sitt, most, lose, well sorted. 8 21 0-1" SP first sand same as above. 1-21" ML/CL clayer sitt, Moist becomes drier towards bottom, slight mottling, some organics increasing clay content towards bottom, medium Stiff becoming very SHF towards bottom, very well sorted, no					In-Spaon:	16	5 de	pecks, moist, medium — ense, hittle + o no si,tt.
3-23 spfine sand, little to no sitt most, lose, well somed. 27 8 21 0-1" SP fine sand same as above 1-21" ML/CL clayey silt, Moist becomes drier towards bottom, slight mottling, some organics increasing clay content towards bottom, medium stiff becoming very stiff becoming very stiff towards bottom, well sorted, no	75					23	50v 2-3% fir rec Sli	ted Te sand with clay, L8 white specks, the - ightly moist, moderately
above 1-21" ML/CL clayey silt, Moist becomes drier towards bottom, slight mottling, some organics increasing clay content towards bottom, medium stiff becoming very stiff towards bottom, wery well sorted, no	27						73	' 15 · · · · · · · · · · · · · · · · · ·
	21				6	21	CA 1-21" MI MO TO M TO TO STI STI	LL clayey silt, ist becomes drier - wards bottom, slight - nottling, some organics icreasing clay content wards bottom, medium iff becoming very - tf towards bottom,

				" · \20 - T
	Soil Strati	graphy Field !	Log	Location ID MW - 130 - I Facility Kent Project Well Install RIT
PHILIP SERVICES	Field Geologist Tasya Erra	y Amy	Sidell	Location Type: X Soil Boring Only Well Test Pit
NI 1802	ISamolina Mause			Total Depth
Geoprobe 2 × 1"	acetate li	Ver Z	Geological D	escription: Sample Interval, Unified Soil Class ID, olor, grain size, sorting, moisture, compaction,
Depth of Sample ID Blow Count (per 6")	Total Organics (ppm)	Recovery (inches)	indication	of contaminants (odor or sneem, and general stratigraphic description.
0.0'	Breathing Zone: In-Spoon: Headspace:	11 first	0-111111	a silty sand moist, fine to
	~0.4	11", rock	اسا	rted, loose - medium dense, 13 loya color, roots debris
	16 above,	E LOULD	6-11 C	M silty gravel, moist, fine-coarse grained, fines
	background		T6	fine-coarse grained, fines up to coarse gravel,
		+WL rest		poorly sorted, 3/3 104R color, dense
`		12	0 10" (am silty gravel, sightly
	1200	very	0-10	moist, fine-coarse grained,
_		clogging		moist, fine-coarse grained, fines, fines to coarse gravel, poorly sorted, dense,
_		sampler	1	4110y grey!
			0-211	ML SILLATINE Grained,
4	0	16"	med.	WCII SUITCU, IT ES GCT AS STILL
	~ 5 above	W	-/1 411	A/2 7.5 yrz SM silly sand fine grained,
			3"-4"	moderately sorted, med dense
			X = \L''	ML silt w/ little to no sand
T P		A Da	7-10	very wet not blastic,
- Jan Carta	0.00			mothed, small amount
				orddes to gilty clay by
				/1.12 //\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Lude Servesion La F				med stril, alg
6 Anni	1 Di WINDATE II	PO2 Revi	ewer	Date Pg of
Geologist's Signature	JA HARCONS II	11-1-		

r							Location ID	WW-130	<u>- 1</u>	
	PHUI	SERVIC	ES	Soil Strat	igraphy Field	Log	Project W @	II Install	五五	1
} ₁	Date .	18/02		Field Goologist Tasya Gray	Amy	Sidell		OntyWell	Test Pit	
ŀ	Drilling Method			Sampling Mathod	cetate	liner		22	od Soil Class ID	4
	Geopr Depth of Sample	Sample ID	Blow Counts	Total Organics	Sample Recovery (inches)	Geological D	olor, grain size, of contaminan	ple Interval, Unifie sorting, moisture, ts (odor or sheen) hic description.		
,	(ft bgs)		(per 6 ⁻)	Breathing Zone:		0-3" C	2 0/04	NO SAND	plastic,	-
6				In-Spoon: Headspace:	5"		113 1041 113 1041	R color, W	11 U 17 - U 1 1 - 1 - 1 - 1	<u> </u>
				0,0		ا ۱ م د	well son	arades +	o dayey	_
							sift, we	1 MON -	10,41310 <u>1</u>	-1
8				0	22	0-2" N	11 . (10)	ieu silt.	very wet	- - - - -
				0			SAND 4	13 10YR densels	color -	
*****	_					2-22"	< 1 To	silty sar	nd, very _ red, fines	5
					,		Every	fine sa	Na, 10086	2
							dense	is a m	, (41), -	_
ıoʻ					-	0.711.		.SY color		7
·	-			0	13	SM	medivi fines	m dense, w/very f	well sorte	ed
						2-13	3/2 2	.54 colu	d, wet,	
							dense	e, moderate	ely well som	ted.
							Very	grey 1 fine sa	und wi/sil	+
	,								Pg <u>Z</u> of	5
12	Geologis	t's Signature	Natasya	Al Gray Date	11/19/02 Re	viewer		Date	Pg 01	
Same of			•	ν						

			 -			_	Location ID	<u>MW - 130</u>	
-				Soil Strat	igraphy Field	Log	Facility	<u>Kent</u>	
		200000					Project WULL	<u> Enstull</u>	RIII
		SERVIC	,E3	Field Geologist		<u> </u>	Location Type:		
	Date	8/02		Tasya Ewo	in Am	, Sidell	X Soil Boring O	nly _ Well _	Test Pit
				Sampling Mathod			Total Depth	- 7	
	Drilling Method	probe	,	zni" ace	tate	liner		22.	
	Clec	SP1000		2/1 000	Sample		escription: Sample olor, grain size, so	e Interval, Unif	ied Soil Class ID,
l	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6 ⁻)	Total Organics (ppm)	Recovery (inches)	indication	of contaminants stratigraphic	(odor or sneer c description,	il, and general
12	0.0			Breathing Zone:	14	0-5" t	XLTG SM	51/14	sand,
••				in-Spoon: Headspace:)	h	16+,3/10	y Grey	1 color,
			*	0		V	nedium o	lense, N	noderately
				0.8		1.	wall sort	ed. \$ver	y fine sand
				0.0	į	1.	com time	Lsand	with sitt
						5-11"	M arar	les to	ML, silt
							1044. SOM	NO VENTU	fine sand
		İ				(5:1+	talau V	naist 1	to wet.
						1005)	¿ clay, r drier th	non abo	ve well
						'- ')	arier	2/10/1	grey 1-
	_						Sorteo	s ON 10 Y	dense_
			1			1			
						11-19	SM fine	sandu	isilt, wet,
							medium	' genze	- loose,
	<u> </u>						modera	tely we	11 sorted
							3/104	Grey	color
14"			<u> </u>	0	22	12-18"	SM silty	sand,	Line-very
•					22		fine san	d w/s	ome silty
	1						Well SOYT	red ver	y wet, -
					}		loose - w	nedium .	dense, –
	<u> </u>			는 -]	25/10	V GOOV	1 color -
						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			,
			•			18-22	cirades		
							51 / W/3	ome ch	ay, slight
									+, wet, _
						Ve	ry well so	rted, n	o sand,
							4/104	Grey 1	color
16									Pg 3 of 5
W	Geologist':	s Signature /	Vatama/d	Gray Date W/	19/02 Revi	ewer		Date	ru
	Geologiat .	/-	1	/ /					

							Location ID A	W-130-	<u> </u>
				Soil Strat	tigraphy Field	Log	Facility Project Well T	Kent	RII
	PHILIF	SERVIC	CES	Field Geologist	1.	(111	Location Type:		
Date	1/14/0	2		TAGUA GARA	y/Amy	Dide!	Soil Boring Only Total Depth		
1	ing Method			Sampling Method 2 × / 11	1040+0	liner	-	22	
6	reoprol	be		2 × 1.	11.67 410	Geological D	escription: Sample Int	erval, Unified	Soil Class ID.
	Depth of Sample	Sample ID	Blow Counts (per 6 ⁻)	Total Organics (ppm)	Sample Recovery (inches)	Munseil C indication	olor, grain size, sorio i of contaminants (odo stratioraphic de	or or sheen), a scription.	and general
6 -	(ft bgs)		<u> </u>	Breathing Zone:	21	0-3" M	12 sile W	some	ad very
<u> </u>	,5			In-Spoon: Headspace:		16.1	as soft	110 SM	1011
 	-		* .	6		V	vell sorte	d, Thot	gred, -
							0/80		
	_			1.2		3-9"	MLICE Sit	+ clay	mixture,
			1			1 .	الماكم ما دمان	NO SAN	nd. verst
	_						1.5-1 -10- VIAC	\cup \cup U U U	5 or tea
- }				·		1	_ ' ''\ '		1) T ()
	_					Į.	connort	1+5eH-	WEIL ENUTH
	_					1	in he ati	11 6	10-11 -
						\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	thoy grey	1 colo	~ ,
							mol 21.	ر ال	11 0 75" —
-						100+	hit at	7	-
-					ļ	9-20	"CL sof	+ clay	grading
-						, 2	+17+	-clay (@ 14; —
		ļ					uce + axa	dina to	o moist, ted, little medium
į				į			102.0	11 2 CC	+ed. little
1-				Ì			very we	1	medium
-							silt, mer plasticit matter, r	, , , , , , , , , , , , , , , , , , , 	ne organit
1							p lasticit	4, 500	H01. N9 -
ľ							matter, r	10 110	11211
ļ				· ·			4110 y ga	1 1 B	COLDY
į		ŀ	ļ			70-71		an and	es It. MUNST
			1			20.2	NIL OF		medium
ļ	<u> </u>					V	ury well so	ITEO,	1 calin
					1		Stiff, 4/1	oy gr	ey . Low.
				ļ					-
									-
i.									
\B					ļ Ì				
1			14-	14-7 -	n/la/n		D	ate	Pg 4 of =
٠	Geologis	t's Signatur	e Natar	WAS Gray Date	THEINDE	eviewer			
	222,05,0	~	<i>'</i>						
			•	· <i>V</i>					•

2			- 1				Location ID K-NW-130-I
				Soil Strat	tigraphy Field	Log	Facility <u>Kent</u>
				C 2 1 1	-		Project Well Install RIII
	<u></u>	SERVIC)ES	Field Geologist		(1.1	Location Type:
	Date	3/02		Tasya G	ray / AN	y Stall	∑Soil Boring Only _ Well _ Test Pit Total Depth
	Drilling Method			Sampling Method		10000	22
	Geopre	obe		Z' × [0	cetare		scription: Sample Interval, Unified Soil Class ID,
1 . j	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Munsell Co indication	of contaminants (odor or sheen), and general stratigraphic description.
14	0.0			Breathing Zone:	Full	0-12"5	P moderately will sorted
• -				In-Spoon: Headspace:	12"-	S	and, 3/5 BG Grey 2 color,
	<u> </u> -			PID Error	215"	V	vet, medium dense,
	_			2.0	some		black whred & white specks,
					neave	,	very fine - fine sand
		}				•	with little - no silt
į							logic a
\a	 		 		72	6-23"	SP same as above
				0	some	N	noderately Well Sorted-
			i:	0	neare		sand, 3/5 BG Grey 2 _ color, wet, medium durse,
							black while specks
	-					<u> </u>	very fine-from sand
			•			1	with little - no or -
						141 17	345 @ 17" ~ 2" long
						/ W	it ked w/silting cand,
	ļ.—		l 			۱ ,	rense, Wet,
۱ م							
21			1		7.5	0-23"	SP same sand as above,
					sond	\	very consistant,
		<u> </u>			neared		moderately Nell sorted,
	<u> </u>	ļ				,	315 BG Grey 2 colon
							wet, medium dense,
						-	plack whred EWhite specks
					•		very fine-fine sand
	<u> </u>						wlittle +0/ no sil+
						l	
	,				ļ	ļ	
22			<u> </u>		1//		Date Pg <u>5</u> of
•	Geologist'	s Signature <u>/</u>	Varagyed	way Date 1	[19/02 Revie	:wet	Date Pg 01
	-	/	/	' Y			

	PHILI	SERVIC	CES		graphy Field	Project VV EII IVISTAL
	WILESTO	orobe		Tasya (W Sampling Method	ce+ate	o liver Sanda Interval, Unified Soil Class ID.
3	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Munsell Color, grain size, suring, the first general indication of contaminants (odor or sheen), and general stratigraphic description.
0	0.0		No.	Breathing Zone: In-Speon: Headspace:	0	0-24" NO Sample, +00 rocky +0 collect sample
2'					12	sending for geotech analysis but appears to be 6" of gravel then 6" of very stiff, dry, slightly mottled, very well sorted silt or Clay, difficult to tell plasticity due to dryness
(H						Drilled +hrough for seal
4,5	5			0	10	0-10" CL with some silt, moist be coming drier last 3", very well
g ^e	- 1 - 1 - Xo	in Ac	Larrisa	Say 1-10-	20	sorted, 4/5 Gil grey! color, stiff - very stiff, mothering after 5", small amount of organic debris
(0,	5	Seine Seine	And the second s	0 N2-	21	0-4" CL with some silt, maist to wet, softto very soft, very well sorted, no mottleing, 415 Gy grayt color,
Comment of the Commen	Geologi	st's Signatul	re Natara	Date	11/8/13 Re	Date Pg 1 of 3

i.				Soil Strat	igraphy Field	Log	Location ID MW-131-I Facility Kent Project NC11 Install RIII			
	PHILI	PSERVIC	ES				Location Type:			
	Date	18/02	-	Tasya Gw	ay/Am	idell	Soil Boring OnlyWellTest Pit			
	Drilling Method	<u></u>		Sampling Method	or atato	liner	14.5			
	Geop	robe		2 × 1 acetate line			Nateboulds: Dalling time, and			
	Depth of Sample (ft bgs)	Sample ID	Blaw Counts (per 6 ⁻)	· Total Organics (ppm)	Sample Recovery (inches)	Munsell Co indication	olor, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.			
5-8.5				Breathing Zone: In-Spoon: Headspace:		+ c W W	su sandy silt grading strate very fine sand ith little silt, very very soft, well sorted, 4/564 grey !-			
05	- - -				1011	(appears to be sandy			
8,5					18"	gradir	ng to finer material			
10.5				0	24"	0-24" S	of fin-ery sand with a little silt, wet,			
	_						fines to oma 1011			
							then goes back more of about 21", small			
							amount of organic matter, well sorted, loose tout			
	_						medium denseletop, -			
12.5				0	24"		SM silty sand, very - fine sand w/silt, well- sorted, wet, loose, _			
							ML silt, no sand, some			
							low clay content, wet, soft to medium stiff, very well sorted, 2.5/10 Gry grey color			
14.5	Geologist':	s Signatury	Falsys	Algran Date H	/18/07Revie	ewer				

5							Location ID MW 131-1	
ſ				Sail Strati	graphy Field	Log	Facility REPT	
771				3011 211 21			Project Well Install RIII	
\	PHILIF	SERVIC	ES	Field Geologist			Location Type:	
Ì	Date ,	B # F.		Field Geoldylat	, Amy	Sidell	Agoil Boring Only _ Well _ Test Pit	
	11/18/	5Z		Field Geologist Tasya (wa)	7/111		Total Depth	
	Drilling Method			Sampling Method	11.10	liner	18.5	
1	Cons	probe		Sampling Method 2 × 1 acc	Tare	Content De	escription: Sample Interval, Unified Soil Class ID,	
	01007				Sample	Geniogies, -	enting maisture, compaction,	
	Depth of	Sample ID	Blow Counts	Total Organics (ppm)	Recovery (inches)	indication	olor, grain size, solding, of contaminants (odor or sheen), and general stratigraphic description.	
	Sample (ft bgs)	Sumple 1	(per 6 ⁻)	1,5	(IIICI)		- L+ year well-	
14.5	0.0			Breathing Zone:	井	0-4" C	CLIML Soft, very well-	
	-			In-Spoon: Headspace:	12		and with the Low I well the	
				O	1.7	54	vey I color, clayer silt	
		•		70,7		0	1	
	<u> </u> -			0.		4-12"	ML medium soft To	
						l	- 11 - 110 Sano	
]	l L						
	<u> </u>					1	2.5/10 Gy grey 1 color	
					ļ		2.5/10/64/9107	
						ļ	play with little to	
11.6	`			0	19	10-13" C	L clay with little to	
16,5		•	.[, ,	1	no sit woold of	
				N 0,9]	medium plasticity, no	
1	—	1					sand, very well sorted	
	 _						Sana, ver 9 boch	
					ļ	13-19"	CL grades to ML with	
		1				ا ا	Sint CL 151/t W/	
			`	1		little	clay, wet, soft, very	
	İ					itte	clay, wer, sort,	
						14.	vell sorbed, 2.5/10GY-	
						Į v	color -	
		1			•		grey 1 color -	l
	 	1	1					F
. 10 -	,						· · · · · · · · · · · · · · · · · · ·	l
146)						•	
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			<u> </u>				Date Pg 3 of 3	_
,	<u></u>		1/11/11	MAN Date	W19/01_ Re	viewer	Date Pg 20 01 9	
	Geologis	t's Signature	J WILL STORY	THEYOU				
				/ / / /				
				V				

	SERVIC	ES		tigraphy Field		Project Well Firstall / RI II
Pate 11:19/	02		Haid Geologist Anny Sici	eil//	Erray	★ Sail Baring Only _ Well _ Test Pit Total Depth
Drilling Method	. در رسر <u>کی م</u>		Sampling Method 2 × 1 acc 1	il atal	ner	6
geop		<u> </u>	LXI ACE	Sample	Geological I	Description: Sample Interval, Unified Soil Class ID, Color, grain size, sorting, moisture, compaction,
Depth of Sample (ft bgs)	Sample ID	Blaw Counts (per 6 ⁻)	Total Organics (ppm)	Recovery (inches)	indication	n of contaminants (odor or sheet), and general strationaphic description.
0.0	· · ·	6.	Breathing Zone: In-Spoon: Headspace:	12	٠	, sand, moist, loose, high OH /2 Syr, poorly sorted,
			∼.2		3"GP P	borny graded gravels, -
_			0		WIT	north soved gravel with
					san	copy soved gravel with d, ermoist, loose, 4/2.75
,				12"	driller	gould top 12" fill & recovered
			0.5	1	1 -	
					0-2" Or 80'	ravel with 6and, poorly rted, 1005c, slightly moist panic matter (OM), 4/3 75 y
	effects				3/2 m	i silty sand, fine gands 2 7.5 yr, slightly moist, od/slightly dense, some allythin zicm thick clay
_		in Language			ot ot	- top 2"
			0	161	0-16"	ML Clayey oilt becomin IL clay with little to no
			0.6			silt@ ~4", moist
			3 5 5 7 1 20-45			very well sorted, no san
					v	mottling well, 4/10GY GLEY 1
120	The second second	The Francisco	1			
)	- Sig-ntime	Natan	AS Gray Date 1	1/1/02 Rev	iewer	Date Pg of
Geologist'	s Signature ₋	, was	-			
en en en en en en en en en en en en en e			-			

				Soil Stra	atigraphy Field	d Log	Facility	1P-125-] Kent	
	Date PHILIPS	n r. —	<u> </u>	Field Geologist TUSYU (W	my / Ann	Sidell	Project VVC \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
	Geoprol	<u>ما</u>		Sampling Mathod	icetute is	vier	Total Depth		
	Depth of Sample Sa (ft bgs)	mple ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Munsell Col	scription: Sample Int lor, grain size, sortin of contaminants (odd stratigraphic de:	g, moisture, comp or or shean), and g	action,
O				Breathing Zone: In-Spoon: Headspace:		2-11" (52W fin Wi (50	a sphalt awelly san al, some u-course oist-we ampler m	ly sorre d, fine - o finissi f grave t, dens nuy hav	(carse 1+), -
2				33h./100	15	90 50 50 10-11" 11 11-15"	CON SAME ONLY SOUTH AND FINE JUNE TONE HIZ LOYI JODA DE SAI SAME MOIST ME	ed grave -coarse s.fine- sist, de 2 color bris ly silt, den	surely, course, use, dry=
· · ·	Geologist's Signat	ure 1		Tun Date V22	FREVIEWS		organic i moderat very fine 3/1 104R	debris, ely sor sand és color	ted,
pent "	<u> </u>			7					_

				Soil Stra	itigraphy Fiel	d Log	Location ID	61P-125	
	PHIL	IP SERVI	CES		•	-	Project Well	Tusta /	RIZ
	Date	· C O * P.—		Field Geologist	1	1 (. l i	Location Type: X Soil Boring Only Y Well Test Pit		
	11	122/0	12	Tasya G	WAY /	tmy Didell		inly <u>Y</u> Well ' _ Te	st Pit
	Orilling Method		^	Sampling Method		1	Total Depth		
	م ہے	oprob	<u> </u>	2'x1"ac	etate_	liner	51		
\	Depth of Semple (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Munsell Col	lor, grain size, so of contaminants	e Interval, Unified S nting, moisture, co (odor or sheen), and description.	mpaction,
	0.0'			Breathing Zone:	15	0-15" A	AL/CL Cla	MYEY SI	l+ —
				In-Spoon: Headspace:	12	t		Few gra	à i
			n.,	0		1	_	, little +	
				0		l .	, -	·	
	i —							Hiff, moi	1
							pecomi	ing drie	27,
							4/104 6	TLEY I CO	10-0
							- Att a close to	n stiff in	A 110.031C
	_						MIELION	15 371 JT - 18 13 JE - 18 JE - 18 JE - 18 JE - 18 JE - 18 JE - 18 JE - 18 JE - 18 JE - 18 JE - 18 JE - 18 JE - 18 JE - 18 JE -	orar S
						,	part, s.	riff town	m to V
								n, meele	
			Ł				well sor	(+ <i>ĒÛ</i> 1)	1
			[2			Seal			
5				_	16"	coneet Sample	ed geo-	technica confining	g layer
		,				Shop	mn+eria	I was	CL -
						Olav	moist	very wel	SM+of
		•				MO =	101017 200	to and of	15000
					•	200	Q, 307		1. –
						Sti++,	5/107 6	+-med	166
				· e					
				-+0	18	0-10" M	L Clayen	silt, wel	
	_	İ		\bigcirc	-	no	sand 4	110 GY GI	Lty
		į				M(1762, taic	-,- medium s	רווין דווין
]		10-13 MI	_ 311t)	wet, well	Sorted
						50	oupy sott	t, 41/0 GY	- 1 Jan
		į				13-16" M	redium s	net, well =	ntations
Ĺ						ō	range m	ottling,	
	Geologist's S	ignature	man Hy	Tay Date 11/2	1/02 Review	er	Date	Pg _	2 or 6

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Drilling Method	122/02		Tasy u bw	my / Amy	Location Type: Soil Boring Only Zwell _ Test Pit Total Depth
Geop	robe		Sampling Method 2 × 1 AU	十地门	Geological Description: Sample Interval, Unified Soil Clas
Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	: Total Organics (ppm)	Sample Recovery (inches)	Munsell Color, grain size, sorting, moisture, compaction indication of contaminants (odor or sheen), and gener stratigraphic description.
0.0'			Breathing Zone: In-Spoon: Headspace:		16-18" ML silt, little clay, no sand, well sorted, so
.		•.			white chunks present moisting mottling
		1. 4	0	18	0-15" ML/CL silty clay, very s woist, sott, very we
					sorted, 415 GY GLEY 1
<u> </u>					15-18 SM/SW sand with a! silt, very fine sand &
					3/104 GIEY 1 color. re : White specks, well so
			0	15	0-12"SW very fine sand, s'
- -			O		Coarser than above
 					very wet, 3/104 GL Well sorted, red & u
					specks little to no s
			2.0	?	except between 3-4 silt-content increa
					12-15" SM silty sand, we five sand w/silt, we
_					soft, 3/10/GEY 1 red & white specks,
					becomes more of
					silt ML @ botto

<u>.</u>	PHILI	P SERVIC	SES.	Soil Strat	tigraphy Field	Log	Location ID GP-125-I Facility Kent Project WIN INSTAIL RIZ
	Date	122/02		Field Gaologist TASYL GW Sampling Mathod	ay Av	my Sidell	
	Orilling Method	probe		21×111 ac		Geological Do	escription: Sample Interval, Unified Soil Class ID,
,	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	indication	of contaminants (odor or sheen), and general stratigraphic description.
13	0.0'			Breathing Zone: In-Spoon: Headspace:	20	. W	usilty sand, very et, very fine sand grate silt, very loose, Well
						7 - 2h"SI	orted, red & spects Usable, #3/10 y GLEYI Moderately sorted v. fine
	_					(very wet, very loose, 3/10 y GLEY1, red EWhite
							Specks, begins to get coarser towards of bottom, more fine same
15				0	VO	6-10"	5P moderately sorted, fine-very fine sand, little silt, wet, loose, 3/10 y GLEY 1, red E
	 						white specks.
17					20	colle	ole. Appears to be: silt, wet, there is chunk of wood @16"
				,		a	chunk of wood @16"
19	Geologist	s Signature _y	Nataryo D	May Date 1	12210 Z Revie	ewer	Date Pg <u>4</u> of <u>6</u>

	PHILI	P SERVIC	CES		tigraphy Field	Log	Facility Project VIII Till 5 till R L Z Location Type:		
		2/02		Field Geologist TUS Y CI GY Sampling Method	ay/Am	y Siclell	X Soil Boring Only X W	Test Pit	
	Drilling Method	oprobe	_	2'x1" all	tate li	NUV .	31'		
1	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Munsell Co indication	scription: Sample Interval, for, grain size, sorting, mo of contaminants (odor or s stratigraphic descript	oisture, compaction, sheen), and general ion.	
14				Breathing Zone: In-Spoon: Headspace:	20	no Sti cle	L clay with a sand, incist, so ff, plastic, is av but intespersed loy gley 1, W	es & Driganic	
				•		red wee	SINPVENY fine of CJY giey 1, v Specks, mixed Day de bus, we et, moderation	white specks Lwlab indont Ell sovied	
21				# ARS	21	collection 21-23	ted geoteche	1P-125-I- nt025ampts	
	_ 					10-131'a 13-21"a	ppears to be ppears to be ppears to be (vet	mix of ©	
23				0.2	27 (Imer got mangled)	2.5/ red s dens	inip well sorted ing to well so sand, little to 10 Gy gley 1 specks, mois e, no organic	fine sand ned very nosit, , white specks t, moderately matter (on)	
25				0	24	0-3'SP Series 189	Very fine sar peral silt/clay 5 than 2mm Same as about	nol with stringers— thick, Sand— cotherwise	
. 27		(1)	mufide O	0 - 1	Ulat Bayley		Date	Pg 5 of 6	

Geologist's Signature My Tully

	PHILI	P SERVIC	es SES	Soil Stra	tigraphy Field	d Log	Location ID Facility Project	CP-12 Kont RIZW	ellinstall
	11 22	c o a p.——		Field Geologist TOSYCT GYOLY Sampling Method	/Army (Sidell	Location Type: Soil Boring Or Total Depth	ntyWelt	_ Test Pit
	Orilling Method	e-Casa	de	2'x1"aceta	ale		31		
	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Munsell Co indication	olor, grain size, so of contaminants (stratigraphic	rting, moistu lador or shee description.	n), and general
27	0.0'			Breathing Zone: In-Spoon: O Headspace:	22	0-10" S	ML clayed oned, well lastic, 4/	ey silt t, soft 'loy g'	, well - , a little - ley 1
						10-20"	OL SIIT V	vith a alter(n	·
						(C	ML Super rumbly, w lots(boxs	Hhtur	quoisc
						L	nay have		
29					3	ine tur	ashh, w	ril sov treakin	na, little
30'					11'	0-5" M Sl W stri	iL/CL Silty ightly place in the fundamental control of the fundamental control of the fundamental control of the fundamental control of the fundamental of the fundam	clay,9 stic,m gusy lo seen in	off, mb _ offles, _
				:		5 3" N	11 Gilt m	ixed.	vith yellowy shell Usonted — ly smooth val bits
				·		7-11' M	LSIT, W	ith al	
31'	Geologist's	 Signature	my fide		2/02 Review	t end i	De Don Dat	ng -	Pg 6 of 6

	Date (SER	/ICES	Soil Stra Field Geologist Tasya Crre	tigraphy Field		Location ID GP-118-D Facility Kent Project Supplemental RI Location Type: Tem P K Soil Boring Only & Well Test Pit
	Z/8/ Dilling Method Divect	Push/	Auger	Sampling Method acetate 4'xz" & 7	ner:	WA ZIGELL	Total Depth
	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Munsell Co indication :	escription: Sample Interval, Unified Soil Class ID, lor, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description
				Breathing Zone: In-Spoon: Headspace:	+	unable mater throus	to sample, fill - ial, had to auger _
3 -			-	0	10		and, gravels with sand, gravel up to 1", -dry, loose, Poorly sorted,
5				0	5	m 14 h	IL clayey silt, no nottles, well sorted, nedium stiff, moist,— 115 GY, Driller said We it the silt@5
G				0	38	117-24 ¹¹ (AL clayey silt, no mottles, Initial color, well solved, — medium strift, mosst — 3/5 Gy — 3/5
						24- 2 8 5	M sithy sand lated Nothing, fine - very fine - sand, Ever, grades 19 - NL sith wet, Wall sorted - No mother of the first the
(0)		·		O ₁	40	0-12"	ML Clayer alt grading to sandy silt, wet, fairly — 30ft, 4/10 Gy, no mothing, very cared
Constant of	Geologist's S	Signature /	Imy Xia	1998 Date <u>74</u> 9	\$103Review	ver	Date Pg of 5

ate	*2月/	SERV 0つ	/ICES	Field Geologist TOSYC (NW)	/mmy S	rdell	Project Suppl RI Location Type: XSoil Boring Only X Well Test Pit
	ing Method PCI PU	sh Myse	r r	Sampling Method DCC TC/TC IV -F x 2" (k)			Total Depth 49 (-105)
	Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Munsell C indication	escription: Sample Interval, Unified Soil Class ID, olor, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.
	0.0*			Breathing Zone: In-Spoon: Headspace:		12481	Sing sand, very fine — sand grain nate fine — sand with while fred — species which are 25/100 — wet men area arease, will _
	···		-				Souted SNI silty sand fine stand — White Erra flecks, 2.5/1007 Wet fred dense, well some
	-			Out	42		SM SITY SAM FINE SANA, White E Ital Flecks, 2:5% — 1054, wet Med Gense—local works to finer sand a fixer 2" —
	-			0			ML Silt with very very - fine sand, medistiff, well scited, 8/5Gy, moist
_	_						argonic wisay piece
	-			0	44	3-8" (1004) 15-10" FRS P	L Chy 4/10%, moist, soft— noticitately plastic noticitately plastic noticitately plastic noticitately plastic noticitately plastic noticitately plastic noticitately plastic sond size white particles cossibly shell frequents is/10 Gy, with, Med loose/de some red specks, roorly some red specks, roorly

_ 	SER!	/ICES	E H Seeleden	tigraphy Fiel	Project SUPPLES
2/8/0) 3		TOSYG (TICK)	/ /Amy S	X Soil Boring Only Well Test Pit
Drilling Method	rush / Mu	ger	Sampling Method CKETOTE IND CLEX 2" E. 2	P/XIII	Total Depth 48 (+1565)
Depth of Sample (ft bgs)	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Geological Description: Sample Interval, Unified Soil Class ID, Munsell Color, grain size, sorting, moisture, compaction, indication of contaminants (odor or sheen), and general stratigraphic description.
			Breathing Zone: In-Spoon: Headspace:		10-12 morganic, pertymicterial 12-17 ML clayey sit, aparticles to CL clay, structure, soft gradient to stiff, found y day 5/10 y, some streaking in color 17-21 poorty organic woody That cai, sulfury smelling, no Attados
					21-23 SP Very fine black scand White Wredspacks, mast, Well souted, 3/10 y, med-dense 23-25 Pt Woody deion S larger (~10 long) wood pieces 25-27 10 t woody depths mixed with a little clay, moist— 27-44 5 P Very fine scind, well Souted, led & white fieces 3/10 y, moist dense, some Fine sand also
			-		geolech sample GP-118-D-22-29 -0203 appeared to be au sand
			0	20	0-3 SP very very fire sarry, well So vised, red Electrise fisches, 3/10 y, wet, loose 3-5 ML SIIT with revy little fine Sand, wet, med dense, 4/10 y

PHILIP:	SERV	ICES		tigraphy Field		Facility ROT RI
2/8/03			Field Geologist TOSYA (718	ay/Am	ry Sidell	XSoil Boring Only & Well Test Pit
Orllling Method	.h / Aug	er	Sampling Mathod A(C+TC+C-11) L/X2// &	êrî : 2/x//		Total Depth 48 FT DQS
Depth of Sample S	Sample ID	Blow Counts (per 6")	Total Organics (ppm)	Sample Recovery (inches)	Munsell Co	scription: Sample Interval, Unified Soil Class ID, lor, grain size, sorting, moisture, compaction, of contaminants (odor or sheen), and general stratigraphic description.
			Breathing Zone: In-Spoon: Headspace:		8-10 ML 8-10 ML 10-14 MY 801 14-16 0 14-20 CL tubbed fairly	GIN With nasand — Norwise same as above _ SIT WITH VERY fine sand _ SETWISE SCIENCE as above _ LCICIONES STUDIE as above _ LCICIONES STUDIE as above _ THE MODE PLASHE, med — Clay with organic bits _ Clay with organic b
			0	10	0-10 - 9	M silty sand/very fine dyay well -
				42	0-22 St Sc Sc 22-27 M S	of Sility saint, very fine and, very web, south, web, web, south, web. I had south the usorably plauticy occupied to the control occupied to the contr

PHILIP SERVICES THE GROUPS THE G	77,035.03			Soil Stra	itigraphy Field	i Log	Location ID (TP-118-D) Facility Kent
Tetja Cray/Amy Sidell Solid Boring only Await _ Test Pre Depth of Sample ID Blow Counts Total Organics Control Total Organics Control Total Organics Control Total Organics Control Total Organics Control Total Organics Control Total Organics Control Total Organics Control Total Organics Control Total Organics Control Total Organics Control Total Organics Control Total Organics Control Total Organics Control Total Organics Control Control Total Organics Control Control Total Organics Control Cont	PHILIF	SERV	/ICES				
Depth of Sample ID Blow Counts (por 61) Total Organics				Field Goologist	1/Amy	Sidell	T 1/1/40
Depth of Sample ID Blow Counts Total Organics (ppm) Breathing Zone: In-Spoor: In-Spoo	D-Illing Method	Push/Az	15er	1010570116 116	er;		l .
Produpoco: Dits of Wood dearts fred & most, no apparent method floy, well sorted except to Mile y, well sorted except to Mile sorted, red & white ficties. Weth mediations 2.5/100 Dits of Sp fire mediating to den sorted and well sorted to white fects, when looks grading to den 2.5/100 y, silt lens obtained to fre mediations of the mediations of t	Sample	Sample ID	ř	Total Organics	Sample Recovery (Inches)	Munsell Co indication	lor, grain size, sorting, moisture, compaction of contaminants (odor or sheen), and general stratigraphic description.
Sciffel, red & white fictions. Wet, ment dense 2.57106 0 42 0-30 SP fire-med sanci, with sorted, red & white fects, with loose grading to den 2.5/106 yill tense but what arms of top 30-42 Gratech GP 113-D-39-6-0203 1 0-1 ML sandy 5.17, fine san way sourcy (hence poor receivery), 4100 y, mod so way wet, uniform colors 0 Very wet, no recovery 24 0-14-7 CL 91ty clay with one woody debries 4100 y, med 511ff, 51 ghtly plastic, grading for the young for young for the young for the young for the young for young for the year.		·		In-Space:	mSC13	i dita i Mag	of Wood Acums, Mader t, no apparent metiums
Sorted, red I winte felics, well loose grading to den 2.5/10Gy, silt lense bett wind a bound of the 30-42 Grate in GP 118-D-20-6 -0203 1 0-1 ML Sandy 51t, fine san very sound (hence prometic very), 4/10y, mod 50 very wet, no recording 24 0-14-" CL Silty clay with or woody debris 4/10y, med 5tiff, 5lightly plastic, grad to Silt by 14" 14-24" ML Silt/v. v. v. fine s	_	· · · · · · · · · · · · · · · · · · ·	-			SOVAC	d, red Evanite frecies.
1 0-1 ML sandy silt, fine san very soupy (hence poor receivent), 410 y, mod so very wet, no receivery 24 0-14-11 CL silty clay with or wardy debris 4/10 y, med stiff, slightly plastic, gradito Gilt by 14" 14-24! ML Silt/ v. v. v. fine so the class of the silty very sound.				Ð	42	Souted	hred by in the tears, we
Very souply (hence promoted very weth uniform color very weth uniform color very weth uniform color of very weth, no receivery 24 0-14-11 CL silty clay With or wardy debries 4/10 y, med staff, slightly plaistic, gradito Gilt by 14" 14-24! ML Silt/v. v. V. fine silty of the si						30-42 6 -01	16016th GP 118-D-39-4
- 24 O-14-11 CL Silty clay With 61 wordy debris 4/10 y, med staff, slightly plaistic, grad to silt by 14" 14-24! ML Silt/v. v. v. fine s		,			1	O-1 MU Ver ver	_ Sandy 5, It, fine sancing soupy (hence, poor to voing), 4,110 y, mod sor y wet, uniternit color
- shift, slightly picistic, grach to gilt by 14" 14-24! ML Silt/v. v. V. fine s					0	VCIY W	et, no recording
	-				24	5/1967 to 911t 14-24!	Slightly plastic, gradur - by 14" MLSIIt/v. v. V. fine san
Geologist's Signature Child Fidel Date 2803 Reviewer Date Pg S						holtom s	CF DIVING Pg S of

		(, j

PROJE				ervices C /ashingto		on		Borii	ng	No. GF	P-1
BORIN						292405.8		ELEVATION AND DATU 28.45 feet (NAVD 1		3)	
	DRILLING CONTRACTOR: Cascade Drilling, Inc. DATE STARTED: 6/15/07 TOTAL DEPTH (ft.): 8.0								DATE FINISHED: 6/15/07 MEASURING POINT: Ground surface		
DRILLI	DRILLING EQUIPMENT: Geoprobe 6600 DEPTH TO WATER (ft.)							- 1	FIRST ~4.0	COMPL.	
SAMPI	SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"] LOGGED BY: 7 Satterwhite							LOGGED BY: Z. Satterwhite	-		1
HAMM	ER WE	EIGH	łT:	NA		DROP: NA		RESPONSIBLE PROFES Z. Satterwhite	SSIC	NAL:	REG. NO. L.G. 2568
DEPTH (feet)	Sample No.	Sample 14M	Blows/ S Foot	OVM READING (ppm)		DESCRIPTION NAME (USCS): color, moist, % by wt. cementation, react. w/HC Surface Elevation:	, plast. dens l, geo. inter.	sity, structure,		F	REMARKS
					AS	PHALT	20.40	leet (NAVD 1900)			
1- 2- 3- 3- 4- 5- 6- 7- 8- 9- 10- 11- 12- 13-	GP-1-3.0-0607			0 0 0 0	SIL bro	ORLY GRADED GRAVEL with S YR 3/3), mottled light brown and oarse gravel, 45% fine to coarse sanded [FILL] TY SAND (SM): very dark grayis wn, moist, 60% fine sand, 40% loot AYEY SILT (ML): brown (10YR 4 nge, moist, 95% fines, 5% fine sand, 40% loot to moist, 95% fines, 5% fine sand, 40% loot to moist, 95% fines, 5% fine sand, 40% loot to moist, 95% fines, 5% fine sand, 40% loot to moist, 95% fines, 5% fine sand, 40% loot to moist, 95% fines, 5% fine sand, 40% loot to moist, 95% fines, 5% fine sand, 40% loot to moist, 95% fines, 5% fine sand, 40% loot to moist, 95% fines, 5% fine sand, 40% loot to moist, 95% fines, 5% fine sand, 40% loot to moist, 95% fines, 5% fines,	dark gray, nd, 5% fin h brown (w plasticity	moist, 55% fine to es, subangular to 10YR 3/2), mottled y fines ed light brown and		Instrumer calibrated isobutyler Borehole bentonite	nvironmental hts 580B PID I with 100 ppm he standard. destroyed using chips placed from h to ground
4-	1										
15-	•							1			OAKBOREV (REV. 3/00)
						 Geomatrix		Project No. 94	ю4.0	IU2	Page 1 of 1

PROJECT				ervices C ashingto	Corporation n	Borir	ng N	o. GF	P-2	
BORING I					1.0; E 1292418.1	ELEVATION AND DATUM 27.16 feet (NAVD 1				
DRILLING CONTRACTOR: Cascade Drilling, Inc. DATE STARTED: 6/15/07 TOTAL DEPTH (ft.): 8.0								DATE FINISHED: 6/15/07 MEASURING POINT: Ground surface		
DRILLING	3 EQ	UIPI	MENT	г: Geop	robe 6600	DEPTH TO WATER (ft.)	FIRS	ST	COMPL.	
SAMPLIN	IG M	ETH	IOD:	Geopro	be macro-core sampler [4' x 2"]	LOGGED BY: Z. Satterwhite	•			
HAMMER	R WE	IGH	IT:	NA	DROP: NA	RESPONSIBLE PROFES Z. Satterwhite	SIONA	_:	REG. NO. L.G. 2568	
T	No.		Blows/ Si Foot	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. decementation, react. w/HCl, geo. inte	ensity, structure, er.		F	REMARKS	
0.	'		_	ш.	Surface Elevation: 27.16 ASPHALT	6 feet (NAVD 1988)				
1 2- 5	203			0	SILTY GRAVEL with SAND (GM): dark gray 4/2), moist, 45% fine to coarse gravel, 40% fine 15% low plasticity fines, subangular to rounder fragments [FILL]	ne to coarse sand,	 _ _ _			
3-60	GP-2-3.0-0607			0	SILT (ML): very dark gray (10YR 3/1), moist sand, low plasticity, firm, rootlets throughout; top		The ln	strumen	nvironmental hts 580B PID	
5-				0	wet; very soft, increasing fine sand				with 100 ppm ne standard.	
					iron staining (orange mottles)					
7-				0	CLAYEY SILT (ML) (moist, soft) (10YR 4/1)	A) 11 1 (40)/D	_			
8-		X			POORLY GRADED SAND with SILT (SP-SN 2/1), wet, 90% fine sand, 10% low plasticity fi					
9-		Bottom of boring at 8.0 feet.						entonite	destroyed using chips placed from n to ground	
10-							_			
11-										
12-										
13-										
14-										
15									OAVDODE!/ DE!/ 2/22	
					/∕∕⊆ Geomatrix	Project No. 946	64.002		OAKBOREV (REV. 3/00) Page 1 of 1	

PROJE				ervices C /ashingto	Corporation n	Borin	ıg No. Gl	- -3
BORIN					5.0; E 1292421.8	ELEVATION AND DATUM 26.76 feet (NAVD 19		
DRILLI			DATE STARTED: 6/15/07 TOTAL DEPTH (ft.): 8.0	DATE FINISHED: 6/15/07 MEASURING POINT: Ground surface				
DRILLI	DRILLING EQUIPMENT: Geoprobe 6600 DEPTH TO WATER (ft.							COMPL.
SAMPL	SAMPLING METHOD: Geoprobe macro-core sampler [4' x 2"] LOGGED BY: Z. Satterwhite							1.0.1
HAMM	MMER WEIGHT: NA DROP: NA RESPONSIBLE PROF Z. Satterwhite							REG. NO. L.G. 2568
DEPTH (feet)	Sample No.			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. der cementation, react. w/HCl, geo. inte	nsity, structure,		REMARKS
					ASPHALT	,		
1-	-3.5-0607			0	POORLY GRADED GRAVEL with SAND (GF brown (10YR 4/2), moist, 55% fine to coarse coarse sand, 5% fines, subangular to rounder fragments [FILL]	gravel, 40% fine to	- - -	
2- - 3- -	GP-3-3.5-0607 and GP-9-3-3.5-0607				SILT (ML): dark gray (10YR 4/1), mottled ye moist, 95% fines, 5% fine sand, low plasticity, throughout			nvironmental
4-	GP-3-3.			0	₩et		calibrated	nts 580B PID d with 100 ppm
5-				0	SILTY SAND (SM): black (10YR 2/1), wet, 5 low plasticity fines iron staining	55% fine sand, 45%	- Isobutyle	ne standard.
6-					SILT (ML) (very dark gray (10YR 3/1), moist,	low plasticity, soft)		
7-			7	0	POORLY GRADED SAND with SILT (SP-SN 2/1), wet, 90% fine sand, 10% low plasticity fine sand, 10%		- - - -	
8- 9- 10- 11- 12- 13- 14-					Bottom of boring at 8.0 feet.		- bentonite	destroyed using chips placed from h to ground
_							-	
15-								OAKBOREV (REV. 3/00)
					/∕∕⊆ Geomatrix	Project No. 946	64.002	Page 1 of 1

PROJECT: F		ervices C		Borin	ng No. GF	P-4
BORING LOCA	ATION:	N 15560	0.1; E 1292422.8	ELEVATION AND DATUM 27.76 feet (NAVD 19		
DRILLING CON		DATE STARTED: 6/15/07 TOTAL DEPTH (ft.): 8.0	DATE FINISHED: 6/15/07 MEASURING POINT: Ground surface			
DRILLING EQL	JIPMEN	FIRST ~2.5	COMPL.			
SAMPLING ME	ETHOD:	Geopro	be macro-core sampler [4' x 2"]	LOGGED BY: Z. Satterwhite		1.0.
HAMMER WEI	IGHT:	NA	DROP: NA	RESPONSIBLE PROFES Z. Satterwhite	SIONAL:	REG. NO. L.G. 2568
_	Sample Table Blows/ Sample Foot	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. dens cementation, react. w/HCl, geo. inter.	sity, structure,	-	REMARKS
	1		Surface Elevation: 27.76 ASPHALT	feet (NAVD 1988)		
1- 2- 2- 3- 3- 4- 5- 6- 7- 8- 9- 10-		0 0	POORLY GRADED GRAVEL with SAND (GP) brown (10YR 4/2), moist, 55% fine to coarse go coarse sand, 5% fines, subangular to rounded, fragments [FILL] SILT (ML): dark gray (10YR 4/1), moist, 95% sand, low plasticity, firm, rootlets throughout SANDY SILT (ML): black (10YR 2/1), wet, 55 sand, low plasticity, very soft SILT (ML) Bottom of boring at 8.0 feet.	gravel, 40% fine to some small brick fines, 5% fine	Instrumer calibrated isobutyler Driller: "li 8 feet" Borehole bentonite	nvironmental hts 580B PID I with 100 ppm he standard. ke butter from 4 to destroyed using chips placed from h to ground
11-					_ _ _ _	
13-					- - -	
					_	
15						OAKBOREV (REV. 3/00)
			/⁄∕∕⊆ Geomatrix	Project No. 946	64.002	Page 1 of 1