Date: 12/20/14

BOREHOLE LITHOLOGICAL LOG

Page / of 13

Well Number/Name: MW-40

Name: Sobolece

(g)		Moisture Content	Particle % Dist.	Grain Size	Grain Size	Sorting	Grain Shape	Plasticity	Cementa- tion	Mineral Composition			000000000000000000000000000000000000000
Sample Depth ((Drilling Rate (fV)	Color: Munsell Name and Class	Dry Moist Saturated	Gravel Sand Silt Clay	Medium Parse Coarse	Fine Coarse Max	Well Medium Poor	Angular Sub-Angular Sub-Rounded Rounded	None Low Medium High	None Weak Moderate Strong	uartz idspar ica mphibole aporites	Alteration Visible Grading Analysis Well Graded Fat Clay	Rock Type (USCS Group)	Comment

2	7.54R 4/9 Brown	ÿ	10 a0 tr	×××	V 13 . X .	/ >			SP	Poolly gladed and w/glad 90% F-C sort, 10% grove F-C, subangula to solve that, region sort OFM trace of the
3	-7.5 [R 3/3 dack blown	X	1040	××tr	×	* * *	X	×× ×	SP	Poorly graded sund, 100/ F-M soid, well sorting, subenjulate Luberanded, QFA Hrece silt
ų	10 VR derk derk dellowing been	×	1200 +1	XXX	X	XXX		* * * *	SP	Poorly graded sond, 100% F-C sond, itell sorted, Subangular to unbranded OFA, xraic silt
6	104R 416 dack relleach	X	[0	x x x	×	XX Y		XX X	50	Fooly graded sord, 100y For some like to suspend
10.4	104R 5/8 Hallaurik Blown		100 10	* * 7	×	* *	X	X X X	SP	Poorly graded sand, 100% Fr.C. Sand, well socked, susangular QFA, drote interstate of Silt

Drilling Contractor: Corcade

Drilling Rig Type: fibered 600 T

Sampling Method:

Descriptive Location: Concy - MW- 90

Drilling Method: Sex 10

Date: 2/20/14

Drilling Rate (ft/hr)

Sample Depth (ft)

BOREHOLE LITHOLOGICAL LOG

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Well Number/Name: ハルルカ

Color: Munsell Name and

Class

Moisture

Content

Particle

% Dist.

Fines

Grain

Size

Sand

Grain

Size

Gravel

Sorting Grain Shape

				Name:	Solden
Plasticity	Cementa- tion	Mineral Composition			
		9 S	Visible nalysis ed	Rock Type (USCS	Comment

Group)

13.2	7.54R 5/4 Mann X	los tr ×× tr	X	SP F-M Sund, well sorted, sub-ingular to sub-indeal QA, track so the models
. 16	104R 119ht X 42 Konsin X	19 Z - x	×	SP Poorly graded sand, 1996 F-M Surd, well sonte Subungular, OFA, 21. 31+
21.4	10-12 16-10-21/2	160 × ×		F-M Send, well sorting subangular to subtraded OF A, trace 5: H, Prefore Denoted
23	104R 66/3 pale 66/3	40 10 X	X	St- footing graded sind w/sility St- footing graded sind w/sility Gov. sind F. M., well sorted, SM Jahmand QFA, 10/251 pridon monthly fine send,
7.7	104R 5/4 4016mish X 100mn	190 kM XXr		SP Books grade-1 sond, 1001 F Send, sub-angular to Subjounded, DUCH sorted OFA, trace site

Drilling Contractor: La code

Drilling Rig Type: Plascoin 600+
Drilling Method: Sonn

Sampling Method:

Descriptive Location: Cerry - MW. 4

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Well Number/Name: ハルーリウ

- 11		T	Maistrea	8								Name:	J. Sobok
- 11	1_	İ	Moisture Content	Particle % Dist.		Grain Size Sorting	Grain Shape	Plasticity	Cementa-	Mineral			T To the second
€	Ē	1	Contain	// Dist.		Size			tion	Composition]		
Sample Depth (ft)	Drilling Rate (fuhr)	Color: Munsell Name and Class	Dry Moist Saturated		Fine Medium Coarse Fine	Coarse la	Angular Sub-Angular Sub-Rounded Rounded	None Low Medium High	None Weak Moderate Strong	Quartz Feldspar Mica Amphibole Evaporites Other	Alteration Visible Grading Analysis Well Graded	Rock Type (USCS Group)	Соттепт
27	•	1.232						T 1 T					
		10 yr 55 Bro-0	X	100 45	××					× × × ×		56	foryly gender! sand, 190% F.M sand, well sorted, subaryala, RFA, track I Herbers
37.9													10分件
		7.5 VR 6/3 1:54+ bron	X	ا باره	×××	××	XX	X	X	××××		se	Poorly graded sund, 190% F- c sound, well solded, subangular to s-brounded, RFMA, trace s: It
41.1	+	7.5 YR		+				111					
t Ua		5/4	×	45.5	* *		××	<		× × × ×		Sp	forchy graded sood, 95% F-M send Well sorted, submyder to submyder to
50,9	:	5/4 Yellarih bran	×	100	* * *	K	XX	<i>*</i>		XXXX		SW	Delly graded soul, 100 % F. C. Soul, poorly sorted, Subsequer to supposed of OFMA
61.6		104R 5/3 Brown	X	15 5	< × ×		×××	×		xxxx		SP	footy glodal sand, 95% sand F-C, well Sortal, Subscalar do Subscalar, OFMA, SU SILT, Fredom J-A Sond, high mico calcat

Drilling Contractor: Assende

Sampling Method: Drilling Rig Type: Proposite 600 T

Drilling Method: Jonic

Descriptive Location: Gens - M W- 40

Date: 12/21/14

BOREHOLE LITHOLOGICAL LOG

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Well Number/Name: 14W-4D

Name: J. Sobolew

2	ır.)		Moisti Conte			article Dist.	- 1	Gra Siz	3333	Gra Siz		Sortin	g	Grain	Shap	e I	lastic	ity		nenta tion	a-		Min	eral esition	T	T	4			_
Sample Depth (ft	Drilling Rate (ft/h	Color: Munsell Name and Class	Dry Aoist	Saturated	Gravel	Sand	ines	Fine Medium	arse	Grav	_	ledium	oor	ngular ab-Angular	Sub-Rounded	one	ow Pedium	1	one	oderate	rong	Idspar	-	aporites uo	ner eration Visible	ding Analysis	Il Graded Clay	Rock Type (USCS Group)	Comment	

F			
(5.)	104R 5/3 60~0	× × × 5 × × × × ×	Sw 95x F-c son, party sorted, schenywhyto subjected, GFMA, 52 silt, the grown
69.2	10 YR 5/3 50-0	* 25:75 4r ××××× 4 ×× ××	Party druled Sundan/ SP gland, 75% F-C Sound, 25% F-C gravel, median softing, suborg to surrounded, QFMA trace sith and, C-Ls.,
6 7	104R 5/3 bour	× 45 5 ×	XXXXX SP Paorly gladed Sund, agg/ V. fine sond, swell soltal, sub-enjular, QFHA, 51. 3114
892	104A 6/4 Light Yellanish brain	X 5 95 47 X X X X X X X X X X X X X X X X X X	Sp Poorly graded Sind, 95% F-C sand, well sortal, subangular to subsortal, 5-1. fine grasel, trace 5:1+ DEA
99.6'	104R 514 Yellarish Bour	× 25/75/17 × × × × 16 × × ×	SP Footy graded sent not gravel, SP 75-1. F. C sent, medium porting, Sub-engular to sub-boarded, 25-1. F. C glavel, QA Chest

Drilling Contractor: Lascade

Drilling Rig Type: Pissonic 600T Description

Drilling Method: Sonic

Sampling Method:

Descriptive Location: Comex - MW-40

Date: 1/5/15

BOREHOLE LITHOLOGICAL LOG

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Well Number/Name: MW- 40

Name: J. Sobolew

0	()		Moisti Conte			ticle Dist.		Grain Size		rain ize	Sor	ting	Grai	in Sh	ape	Plas	ticity	,	Cem tio	enta- on		M Com	inera posit				186			
th (ft	(F	Color:				Fir	ies	Sand	Gr	avel																		Rock		
Sample Dep	Drilling Rate	Munsell Name and Class	Dry Moist	Saturated Cobbles	Gravel	Silt	Clay	Medium	Fine	Coarse	Well	Poor	ngular	Sub-Rounded	Rounded	None	Medium	High	Weak	Moderate	Quartz	Feldspar	Amphibole	Evaporites	isi,	Grading Analysis Well Graded		Type (USCS Group)	C	Comment

108.5	1.54 6/4 light Brown	X	5 98 ¥T	x Xtr x	18 > ×	xx	1	K	xxxy x	58.	Poorly graded sard, 95% pred son. F-M, C send will sorted, subangular to sublounded, 5% F-C grayed, trace silt
105.5	10gh 10lb brownish yelan	X	40555	***	53 XX	**	X	K	XXXX	SW	Well gladed send und fravel SS. FLC sand, 40/ 2/001 F-C, medium to poor sorting, OFA, 51/ 5:11
100	104R 5/4 Yellowin	X	80 Z 2 K	* * * *	56 X	< x x	*	×	XX XX	GP	foorly graded glovel, 80%. F-E glavel, 20% M-C son medium sorting, subargular to subround, OF A tree site. Son! subargular, 76001
47	7.5 YR 6/4 Light Boon	K	64	***	13 X	**	<i>x</i>	×	XX X X	GP .	Poorly graded glove of soil bot staxes, F-C, Mel sort, Setting what to subscended, F-Z sould 4D1-DFA
92	1011 5/4 1/4 1/2/14 1/2/10/14	×	५ १८ भ र	×××	5×	XX			××××	SP	footly globed sand, 95%. Sand F-C, Subergularl to subtonated, well sorted 5/ scasel, trace 5:1+

Drilling Contractor: Cadcode

Drilling Rig Type: Prostole 600

Drilling Method: Sonic

Sampling Method:

Descriptive Location: Cemex MW- 40

Well Number/Name: MW-40

Name: J Sobden

)	r)		Moisture Content		Grain Size	Grain Size	Sorting	Grain Shape	Plasticity	Cementa- tion	Mineral Composition			
Sample Depth (ft)	Drilling Rate (ft/h	Color: Munsell Name and Class	Dry Moist Saturated	obbles fravel and ilt	Fine Medium Coarse	Gravel Coarse Max	Well Medium Poor	Angular Sub-Angular Sub-Rounded Rounded	None Low Medium High	None Weak Moderate Strong		Alteration Visible Grading Analysis Well Graded	at Clay	Comment

108.5	7.57R 6/4 1:94t 600	*	म किस	**	× 6×	×<	*	****	50	Poorly guested sand, 100%. For sand, well softed, Sabanyaker to Subserved, trace gravel à silt OFMA
122.4	7.54h 5/3 Ban	×	lotr	×	X	**	/ /	XXXX	SP	footly gladed son, 100%. Very the Fire saml, well Sorted, subargular to Sublimental, DFAIT. There silt
125.0	57 6/3 Pile Olive	×	5 9	s x	×	×	. * *	× ×	CH	Fat clay, 45% chy, modium planticity, 5%, medium sand, savoured Duritz
127-	Yollowsh Green	X	90 5 5	××	X	×	XX	× ×× ×	S	Forty graded send, 40%. F-M sand, subjounded, will soften, low platicity, OMA, 5% s: 1+, 5% cby
1286	54 6/3 Pale 0/:ve	X	4r 10	a×	×	X	XX	××	CH	Fot cby, 100% clay, median plasticity, trace sund, subpensed, and fine sand

Drilling Contractor: Lascade
Drilling Rig Type: Prosonic 690 T

Drilling Method: Senic

Sampling Method:

Descriptive Location: Cemax MW-40

Date: 1/7/14

BOREHOLE LITHOLOGICAL LOG

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Well Number/Name: MW-49

Name: J. Soboke

_	()		Moisture Content	Particle % Dist.	Grain Size	Grain Size	Sorting	Grain Shape	Plasticity	Cementa- tion	Mineral Composition			
Sample Depth (ft	Drilling Rate (ft/h	Color: Munsell Name and Class	Dry Moist Saturated	Cobbles Gravel Sand Sit Clav	ne edium aarse	Fine Coarse Max	Well Medium Poor	Angular Sub-Angular Sub-Rounded Rounded	None Low Medium High	None Weak Moderate Strong		Alteration Visible Grading Analysis Well Graded	Rock Type (USCS Group)	Comment

[28,6]	Blown:4 Yellan	×	90 10	< <	**	×	×	K	× × ×	SP- SM	Auste, QM, 10% sill
130.7	54 7/3 Pale Yelow	×	955	X	K	X	×	×	× ×× ×	SP	Poolly graded Send, 95% way fine to fine, Subsymbol, well sorted, Bx 5:1+, QMA high mice content
131.7	104R 6/6 Brawnish yellar	*	MOTO	××	XX	, <×	K	X	× ××× ×	Sp	Footly greeced sand, 100%. For M sand, well to medium sorting, subangular to subroanced, QFMA, trace sit
12,9	2.54 7/3 Pale bro-	×	90 s r) x	×	X	×	×	x xx xx	5P- 5C	Poorly gladed sent we clay 90% yery fire to fine sand, surenymber, low restrictly 9/14, 10% clay & Oxidation in layer
137	7.54R 6/3 11,44 blew	×	N 100 FL	** **	- b×	xxx	×	×	XX X X	5P	ADOLLY graded Sand, 1001- F-C sand, well sorted, anyther to subvocable, true gravel & 5:1t, DFA layer of clay with sholls

Drilling Contractor: 6 25 Cade

Drilling Rig Type: Plosonic 600T

Drilling Method: Sonic

Sampling Method:

Descriptive Location: Comex MW-4D

Well Number/Name: MW-YD

Name: J Sobok

	ູ		Moisture Content	Particle % Dist.	Grain Size	Grain Size	Sorting	Grain Shape	Plasticity	Cementa- tion	Mineral Composition					
Sample Depth (ft)	Drilling Rate (ft/h	Color: Munsell Name and Class	Dry Moist Saturated	bble wel	Fine Medium Coarsc	Fine Coarse Max	Well Medium Poor	Angular Sub-Angular Sub-Rounded Rounded	None Low Medium High	None Weak Moderate Strong	uartz zldspar lica mphibol vaporites	Alteration Visible	151	Well Graded Fat Clay	Rock Type (USCS Group)	Comment

137 151.1	101R 7/4 Very Pale Bio-n	*	1910	**		X	××	X		X	X	5P-9 SM	Party graded send whith AF-C Send, well sorted, Subtracted to Found, Predominately mand Quete, 100. CIF
530	104k 6/4 Light Yellowith Brown	×	85 15	*		×	**	×	×	K × ×	>	SM	Silty Sand, B52 FM Sond, Subenjuder to Subrounded, neclising sorting Ion plesticity, QMA ISX Silt
155	2.5 \\ 6/2- 1.3ht Blan.5h 4=7	*	95 5	×××			××	×	×	×××	×	58	Body geted sandy 95% FC sand, well sorted, sylagged, to subsanded, but plasted 5% Clay, QMA high mica context
157	104R 614 L:94+ Yerbaisy Broar	×	10 85 5	ע א א	× × 34	**	××	**	×	XXXX	×	59	foorly greed send, 85% FC send, median sorting, subtragelo: to Subvocated NARE to law plasticity, 10%. FC stanct, 5% clay oxitation
161.8	7.542 6/6 Redish Yellow	×	10:00+1	***	× × 21	×	*	*	×	***		SP	Pagly gladed sand, 90% Fic sand, medium sorting, Subangular to sublanded, 10% Fic gland, OFMA trace 5: It Oxideten

Drilling Contractor: Cascale

Drilling Rig Type: Prosonic 600T

Sampling Method:

Descriptive Location: Lenex Mw-49

Drilling Method: Sonc

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Well Number/Name: MW- 40

Name: J. Sobolew

_	r)		Moisture Content	Particle % Dist.	Grain Size	Grain Size	Sorting	Grain Shape	Plasticity	Cementa- tion	Mineral Composition			
Sample Depth (ft	Drilling Rate (ft/h	Color: Munsell Name and Class	Dry Moist Saturated	bbl nd	Fine Medium Coarse	Gravel Coarse Max	Well Medium Poor	Angular Sub-Angular Sub-Rounded Rounded	None Low Medium High	None Weak Moderate Strong	Quartz Feldspar Mica Amphibole Evaporites Other	Alteration Visible Grading Analysis Well Graded	Rock Type (USCS Group)	Comment

161.8	104R 6/3 Pale Brown	×	35°35 E	×××	××55 ¥	**	××	<	XXXX X	GP-	Pools, gladed breve s/clay and sand, SSV. F. C. glave, 35%. F. C. Send, poolly sold submyleled to subreaded, law Plasticity, 10% clay, QFMA, Randel clasts of
168.4	101R 4/4 dark Yollanih	X	90 lo	X	X	×	×		< ×× ×	SP- SM	Pooling global sand w/s. H, 90% very fine to fine soul well sorted, sabloanied, 10% silt, QHA
1774	104R 5/8 7ellarsty Biorn	X	tr. 10	ex .	X	. *	,	XX	* ×	ZH	Fat clay, 100% clay high plastity, trace fine sund quartz and marcovite. 1664-177 transition silt toca
1791	7.54R 5/3 Brown	X	4575 25	xx	× 15 ×	*	K ×	<	x xx x	54	Clayey sand, 75% FM Sound, Subaryelar, but Il sorted, low to medium plasticity, 25% clay, trace chart gleve I (15mm), QMA
185.6	7.57R 6/3 Light Blown	X	95 5	×××	×	1x	X	X	< × × ×	51	Partly gladed sund, 95% F.C. Send, well softed, angular to sayangular, 5% s: 1t, QFMA, Phodominantly Quete

Drilling Contractor: (150 adc)

Sampling Method:

Drilling Rig Type: Prosonic 600 T Drilling Method: Sonic

Descriptive Location: Clarcx MW-4P

Sorting Grain Shape Plasticity

Mineral

Composition

Cementa-

tion

Well Number/Name: MW- 4D

Moisture

Content

Particle

% Dist.

Grain

Size

Grain

Size

Name: J. Soloku

	`≌		Content	N Dist.	0.22	5124				tion		ombos:	uvii				j II
Sample Depth (ft)	Drilling Rate (ft/hr)	Color: Munsell Name and Class	Dry Moist Saturated	Cobbles Gravel Sand Silt		Gravel Coarse Max	Well Medium Poor	Angular Sub-Angular Sub-Rounded	None Low Medium High	None Weak Moderate Strong	Quartz	Mica	Evaporites Other	Alteration Visible Grading Analysis	:121	Rock Type (USCS Group)	Comment
Transaction Action			,,	_= :				,								,	
180.8 183		101R 5/3 B10-0	X	85 15	XX		×	×	×	X	<	××	×			SH	S: It y Sant, BS: I- Sand F-M, Medium Sarting, S-bungular, Iom Austicity, OHX, 15: S: It, piclonings fine yound
189		10YR 6/2 Light Biowreish geog	×	45	* * <		×	××	x	~	XX	* *	X			59	Foolly gented sond, 95%- F.R. sond, well sorted, Solvengueler to subsented 5% c: 17, OFMA LOURCI grains 187-189
217		107k 4/6 deck yelaish Bran	*	85	X		*	**	7	K	X X	K	*			SP	Poorly graded 5-1, 40.1 Fine Soul, Saboroute
218.6		7.54K 4/2 Brown	×	120 41	×		<	×	×	×	××	×	*			SP	15 xilenday 51.5:17, QFA p/eloning the delle adoled in: nerols—and of Poolly graded Send, 100% Fire sound, well sortel, werk cerentation closts, trace 5: 17, QFA, subjoinded brigher Querte conting
, 22.3		7.54L 416 Stong bloom	X	95 5	X.		X	×x	K	*	XX	×	×			SP	footly greated sand, 95%. fine sand, well sorted, subangular to subsorbed, verk concreted clasts, 5,1 5:4-, OFA, Abuilant dark niverals. fint footy open
	- 6																

Drilling Contractor: CESCE Drilling Rig Type: Ploseric 600 T

Drilling Method: Sente

Sampling Method:

Descriptive Location: NW- 40

Date: 1/8/15

BOREHOLE LITHOLOGICAL LOG

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Well Number/Name: MW 40

Name: J Sobolew

	r)		Moisture Content	Particle % Dist.	Grain Size	Grain Size	Sorting	Grain Shape	Plasticity	Cementa- tion	Mineral Composition				
Sample Depth (ft	Drilling Rate (ft/h	Color: Munsell Name and Class	Dry Moist Saturated	Cobbles Gravel Sand Silt Clay	ne edium aarse	Coarse Max	Well Medium Poor	Angular Sub-Angular Sub-Rounded Rounded	None Low Medium High	None Weak Moderate Strong	Quartz Feldspar Mica Amphibole Evaporites Other	Alteration Visible Grading Analysis	무	Rock Type (USCS Group)	Comment

222.3	2,54 +13 Olive Brown	X	100 FL	X	K	XXX	×	** * *	SP	foots grated sard, 100%. fire send, exil sortal, subargular to sub readed, well carented clasto, RFA; trues: It, abuntant date
234	546/4 Palc Olice	×	100		*	×	×		ML	Silt, 100% Silt, denro, law plasticity, norizonte law k exidized lander in first half foot
235.6	5/613 Pale Olive	1	90 10	×××	×	** **		x	5 P- 5M	footly graded sandw/5: It, 10% F-M Sand, medion Solding, Subengular to subtainled, 10% 5: It
237.0	2.57 5/3 Light Olive Brown	×	1/100 H	** **	6 ××	XX X	×	XXX K· X	51	FIC Sand (Predom M-C), Medium-Well Sortins, Subanyular to Substanded, trace fire gravel, REMA
241	7.57R 513 BO-1	X	10902	××××	×35	** *	×	***	SP	foolly gladed serb, 492 F-C (PRd M-C) Sind, 10% F-C grazel, packing to poorly sorted, subungular sand, subvanded gravel, OFMA, truck Silt

Drilling Contractor: Cascade

Sampling Method:

Drilling Rig Type: Plosonic 600T

Descriptive Location: Genex MW-40

Drilling Method: Sonic

Pagel2of17

Date: V8/15
Well Number/Name: MWYD

Name: J. Sobolew

	2		Moisture Content	Particle % Dist.	Grain Size	Grain Size	Sorting	Grain Shape	Plasticity	Cementa-	Mineral Composition				1
Sample Depth (ft)	Drilling Rate (fVhr)	Color: Munsell Name and Class	Dry Moist Saturated	Cobbles Gravel Sand Silt Clay		Fine Coarse Max	Well Medium Poor	Angular Sub-Angular Sub-Rounded Rounded	None Low Medium High	None Weak Moderate Strong		Alteration Visible Grading Analysis	Fat Clay	Rock Type (USCS Group)	Comment
241.	. 5	ام دیا				1		1				TTT	TT	· = :	Will graded Sard w/space)
F /"		2,54 6/3		1000								$ \cdot $		SW	85% F-c Sand, poorly
		Light	X	15852	×× ×	× × 24	X	XX	*		K K X X				85% F-c Sand, poorly Sorted, Swenyaker to Subscribed, QFMA, 15%
292.4		Plon													F-C glase (Sublanted)
		254												SP	Postly graded sand, 95%
		254 6/3 Lynt Yellowsh	×	955	XX		X	* *	*		XXXX	1		7	F-M Sand, well sorted,
		Yellowsh													Salana ton 10 Salamaded, 5% 3: 1+, OFMA,
247		Brown										1.1.1			a graduate of very moneral to
		10 VR 6/3		184							1×1×1×	$\downarrow \mid \mid \mid$		sp	For Graded Sand, 100% F-M (Modownard) MJ Sand
ļ	·	Pale	X		XX		*	×	8	X					well softed, QFMA
200		Bland											11		HACR SIT
25Y7		54 6/3				1						╂┼┼	+		Grave (with class and soid,
		Pak Oise		ल क वड		X X 38	8	XX	X	×	XXXX X			6P-	Grave (vit 4 clay and said, 50% F. C. grand, 40% F. C. Sond, 10% clay subsequents subsected 1000 planticity, QFAA
		1 1 2 0 0	7		^~									05	Submanler to salionaled
260															
- FRI		57										111	$\dagger \dagger$		Silt, 100% Silt, 1 am to medium plasticity, dense,
	:	5/2	×	100			<		XX	x				ML	deare.
		Olive										$ \ \ $		•	
267												$ \ \ $	$\ \ $		
EVT					<u> </u>	L	_					1 			

Drilling Contractor: (45000

Drilling Rig Type: Prosonic 6007

Drilling Method: シルと

Sampling Method:

Descriptive Location: Comex - MW-4D

Well Number/Name: μW -40

Name: J. Solider

	୍ର		Moisture Content	Particle % Dist.	Grain Size	Grain Size	Sorting	Grain Shape	Plasticity	Cementa- tion	Mineral Composition				
Sample Depth (ft)	Drilling Rate (ft/h	"Color: Munsell Name and Class	Dry Moist Saturated	Cobbles Final Gravel Sand Silt Clay	nc edium arse	Fine Coarse Max	Well Medium Poor	Angular Sub-Angular Sub-Rounded Rounded	None Low Medium High	None Weak Moderate Strong	Quartz Feldspar Mica Amphibole Evaporites Other	Alteration Visible Grading Analysis	Well Graded Fat Clay	Rock Type (USCS Group)	Comment

2688	575/3 01:20	*	6535	K		× ×	X		< ×	*	SM	5:14 5 cm, 65 % fine soul, subjouded, in a 4 society, 25% 5:14, 100 plasticity, QM
274,7	54 3/2 01:0e Gray	×	41 95 5	* * *	× ×	XX	X	*	×××	(×	SP	poorly gladed Send, 95%-F-C Send, median sorting, Subenjular to Subsended, 5% s: 1t, thee subsected grapply atom, some or siete
282,5	576/2 Light Olive Try	×	15 % 5	×××	× <39 ×	K		*	x		SP	Poorly ground sond wishow, 80/F- c sond, medium to poor sonding, s-songular to s-brounded, 15% F, c grave, philominally fire, after A
2845	2.57 6/3 Light 401e-in	X	500 5	XXX	xxx	×K	×		* < * *		કા	FICTS graded said, 40%. F.C Sand, Melion SOMing, Swangelar to Subjected, SV. Fire Jeasel, 5% Chap
287	54 6/3 Pale Olive		42 50 cp	***	X 40 X	× × ×	\ X		* * *	K	Sp- SC	Party graded som w/clay and JIMEL, SON F. C Sond, 404. F. C Jravel, 104. Clay Melian sorting, subery dan 10 Sarrow dol, QFMA, 10 plasticij

Drilling Contractor: Lascade
Drilling Rig Type: Prosonic 600T Drilling Method: Sonic

Sampling Method:

Descriptive Location: Lemcx - M W-YD

Well Number/Name: MW- 4P

Name: J. Sobolow

	r)		Moisture Content	Particle % Dist.	Grain Size	Grain Size	Sorting	Grain Shape	Plasticity	Cementa- tion	Mineral Composition		
Sample Depth (ft	Drilling Rate (ft/h	Color: Munsell Name and Class	Dry Moist Saturated	obble ravel ind It	re ic idium arse	Gravel Coarse Max	Well Medium Poor	Angular Sub-Angular Sub-Rounded Rounded	None Low Medium High	None Weak Moderate Strong	Quartz Feldspar Mica Amphibole Evaporites Other	Alteration Visible Grading Analysis Well Graded	Comment

287	546/2 Pal 01:20	×	મા હ	ીશ્	X		KK	X	* <	a	dence, trece nica:
292.8	54 4/2 01:15 50g	4 44	2								with lawhetens of abyges
245.1	2.54 512 glazish Brown	×	5 70	25 × ××	XX PXX	××	KK	X	<*<< *	sc	Clayer Sand, Fr (Sand 70%, 25% Clay, 5% Fr (globe), will to median sorthey, subjusted to madian plantity, long to madian plantity,
248.3	2.54 6/3 1:31st yellarish BEOUR	K	5 85]9	X x 55 X	XX	*	K	××× ×	59- 5C	Papel Send w/clay, 95% F-C Send, predom medium greened, 10% clay, 5% F-C grown, well sented, substituted, none to low please to a presticity. OFMA
299	54 44 01:00	4	45 55	×	×	200	×	<	< < < <	ML	Shirty Silty 552 5:14, 45% fix sind, submouler 10- plastily QMA
300.1	SY6/3 Pale Olive	K	1575	p 484	(XXVIX	× Y	X	X	XXXXX	58-5	footly greated sent whethy and green, Ash Filsen, fodom medium youred, Fic green, sistingular to submited low plasticity, aFMA Well, rounded colleges from
Drilling C	Contractor:				Samr	oling Method	•				sit stane

Drilling Contractor:

Sampling Method:

Drilling Rig Type:

Descriptive Location:

Drilling Method:

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Well Number/Name: MW-40

Name: J. Sobolew

	ı.		Moisture Content	Particle % Dist.	Grain Size	Grain Size	Sorting	Grain Shape	Plasticity	Cementa- tion	Mineral Composition		19		
Sample Depth (ft)	Drilling Rate (ft/h	Color: Munsell Name and Class	Dry Moist Saturated	obble ravel and It lay	e dium arse	Fine Coarse Max	Well Medium Poor	Angular Sub-Angular Sub-Rounded Rounded	None Low Medium High	None Weak Moderate Strong	uartz eldspar fica mphibol vaporite	Iteratic	Well Graded Fat Clay	Rock Type (USCS Group)	Comment

300.7 304.6	54 6/3 Pak 01:UC	×	95	5××	X	<×	X	(~ × × ×	50	foolly graded sand, 95% F-M Send, 5% Blog, Dell Solfel, Sedenogen to Sedemated, OFMX
307	5463 Pale Olive	×	t/ 95	5 < * *	*	××	×	×	****	56-	footly graded so de and grade of the sorted, subergalar to seet south, affect free graves
3104	2.54 6/3 (:jrt Yellowish	Y	4un 3	5××××	6 <	n×	X	<	XX	SP	FOOTY greded sert, 75% For Sent, 5% clay, well Serfed, subangular to Subsanded, QFMA
317	101R 4/2 datkgapin 6000	X	95	5 x x 4r	×	*<	~	4	<*** ×	St	Footly graded sund, 954 F. C sand, 54. 5:1+, well sorted, subergater to subsente OFMA, high mic a content
317	6/3 Pale Olive		p 85	5××××	×90 ×	×	×	×	***	5P	Foolly graded send, 85%. F. C Sand, 10%. F. C graves, 5% clay, mediam sorting, 500 engels, OFMA, Large silastores and reduced.

Drilling Contractor: Cascade

Drilling Rig Type: Platonic 600T

Drilling Method: Sont

Sampling Method:

Descriptive Location: Ceme x MW-40

Well Number/Name: MW-10

Name: J. Soble

	ت		Moisture Content	Particle % Dist.	Grain Size	Grain Size	Sorting	Grain Shape	Plasticity	Cementa- tion	Mineral Composition	Ī				
Sample Depth (ft)	Drilling Rate (fVh	Color: Munsell Name and Class	Dry Moist Saturated	Cobbles Gravel Sand Silt Clay	Fine Medium Coarse	Fine Coarse Max	Well Medium Poor	Angular Sub-Angular Sub-Rounded Rounded	None Low Medium High	None Weak Modcrate Strong	Puartz eldspar fica nmphibole vaporites	Alteration Visible	Grading Analysis	Well Graded Fat Clay	Rock Type (USCS Group)	Comment .

33º.1	104 6/4 Poll Olive	X	10	; 	X			K	K		٥	CH	FAT Clay, 100 ticlay medium ybothitty
328.3	54 5/2 0:ce 6/47	× ×	95 5	X	K		*	×	c	x x x x ×		SP	footy graded sand, 15%. fine Sand, well sorted, Subanne to subranded, none to low places, arma, 54 az, hely mile and do
327	54 5/3 01:2	\	(d	2	X			×	7	×		CH	Fat clay, 100% clay median to high Photicity, then lesty laninetions, trace mize
324,8	546/4 fale Olive	×	2012 70	XK	* * 7	××	×		X	XXX		CL	Gravelly lean clay, 70%. Clay, 20% F.C gas, 10%F.c. Send, 5-bingular, madien Offaste to, QFM
317	54 6/3 Pak 01:10	×	158546	×××	X × 35	×	XX	K		x < x ×		sl	forly gloded sand w/starl, 85% F-C sup, F-C grant 15%, trace 5: Ht, median sorting subengular to subtonaded, QFM A,

Drilling Contractor: LAS Cide

Sampling Method:

Drilling Rig Type: Prosonc 600T

Descriptive Location: Cerex-HW-4D

Drilling Method: Source

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Well Number/Name: MW- 40

Name: J, Jobolen

	<u>ت</u> .	,	Moisture Content	Particle % Dist.	Grain Size	Grain Size	Sorting	Grain Shape	Plasticity	Cementa- tion	Mineral Composition				
Sample Depth (ft)	Drilling Rate (fVh	Color: Munsell Name and Class	Dry Moist Saturated	Cobbles Gravel Sand Silt Clay	ne edium arse	Fine Coarse Max	Well Medium Poor	Angular Sub-Angular Sub-Rounded Rounded	None Low Medium High	None Weak Moderate Strong	Quartz Feldspar Mica Amphibole Evaporites Other	Alteration Visible Grading Analysis	ยเ	Rock Type (USCS Group)	Comment

33a1	54 512 aire 3129	X	40 10	X	×	X	*	X X	K X	Si	P- SM	Poorly greled stadustis: It aphitime gray, 10%, o: It will stand, and, high mica content and ande

Drilling Contractor: Cascale

Drilling Rig Type: Plason: 6007

Drilling Method: 50 ~ C

Sampling Method:

Descriptive Location: Comex MW- 4D