**TEST HOLE LOGS** 

**EXPLANATION OF SYMBOLS AND TERMS** 

The symbols and terms used on the test hole logs to summarize the results of the field investigation and the laboratory testing are described on the following sheets.

Soils are classified and described according to their engineering properties and behaviour. The descriptions applied to the various soil units as shown on the logs follow the Unified Soil Classification system with slight modification to recognize inorganic clays to medium plasticity (CI). Such descriptions are judgmental in nature and may differ in detail from that actually encountered in the field. The descriptions noted in the logs from test holes are based solely on inspections of soil and rock samples recovered or cuttings observed. The actual nature of the materials between samples may vary.

Laboratory tests have been performed on the various samples noted, following standard testing procedures or protocol unless otherwise noted. The test results are intended to provide a general indication of some of the engineering properties of the material.

## ABBREVIATIONS

erii

w or MC	Moisture content (ASTM D2216)	PP	Pocket Penetrometer
$W_{\mbox{\tiny P}} \mbox{ or } \mbox{\rm PL}$	Plastic limit (ASTM D4318)	γ	Unit weight
$W_{L}$ or LL	Liquid limit (ASTM D4318)	γd	Dry unit weight
I <sub>P</sub> or PI	Plasticity Index	ρ	Density
NP	Non-plastic soil	ρd	Dry density
SH	Shelby tube sample	qu	Unconfined compressive strength
AU	Auger sample	Cu	Undrained shear strength
В	Bulk Sample	SO <sub>4</sub>	Concentration of water-soluble sulphates
UD	Undisturbed Sample	TCR	Total Core Recovery
RC	Rock Core Sample	RQD	Rock Quality Index
SPT	Standard Penetration Test	SCR	Solid Core Recovery
VST	Vane Shear Test	FI	Fracture Index

	SIZE RANG	ES OF SOIL COMPONENTS						
	Component	Size Range						
		mm (US Sieve)						
	Boulders	Over 300 (12 inch)						
	Cobbles	75 (3 inch) to 300 (12 inch)						
	Gravel:							
	Coarse	19 (3/4 inch) to 75 (3 inch)						
	Fine	5 (#4) to 19 (3/4 inch)						
	Sand:							
	Coarse	2 (#10) to 5 (#4)						
	Medium	0.4 (#40) to 2 (#10)						
1	Fine	0.08 (#200) to 0.4 (#40)						
	Clay and Silt	Less than 0.08 (#200)						

SECONDAR	Y CONSTITUENTS
Term	Percentage
and	35% - 50%
y/ey	20% - 35%
some	10% - 20%
trace	0-10%

na Lta,

	CONSISTENCY OF FINE GRAINED SOILS										
Term	Undrained Shear Strength (kPa)	SPT N	Description								
Very soft	< 12	< 2	Easily penetrated with fist								
Soft	12 – 25	2-4	Easily penetrated with thumb								
Firm	25 – 50	4 – 8	Moderate effort to penetrate with thumb								
Stiff	50 - 100	8 - 15	Great effort to indent with thumb								
Very Stiff	100 - 200	15 - 30	Easily indented with thumbnail								
Hard	> 200	> 30	Effort required to indent with thumbnail								

DENSITY OF COARSE GRAINED SOILS													
Term	SPT N	Approx. Relative Density (%)											
Very loose	0-4	0 - 15											
Loose	4 - 10	15 – 35											
Compact	10 - 30	35 - 65											
Dense	30 – 50	65 – 85											
Very Dense	> 50	85 - 100											

Proud of Our Past.... Building the Future

**EXPLANATION OF SYMBOLS AND TERMS** 

**TEST HOLE LOGS** 

## **UNIFIED SOIL CLASSIFICATION SYSTEM (MODIFIED)**

	MAJOR DIVI	SION	GROUP SYMBOL	TYPICAL DESCRIPTION	LABORATORY CLASSIFICATION CRITERIA					
	HIGHLY ORGANI	C SOILS	РТ	Peat and other highly organic soils	Strong colour or o text	odor and fibrous ure				
4 75 µm	ALF THE TION .75 mm	CLEAN GRAVELS (LESS THAN 5%	GW	Well-graded gravels, gravel-sand mixtures	C <sub>U</sub> =D <sub>60</sub> /D <sub>10</sub> >4	$C_{C}=(D_{30})^{2}/D_{10} \times D_{60}$ 1 to 3				
K THAN	AVELS AN H/ E FRAC HAN 4	FINES)	GP	Poorly graded gravels, gravel-sand mixtures	Not meeting all above requirements					
SOILS ARGER	GR NRE TH DARSE GER TH	GRAVELS WITH	GM	Silty gravels, gravel-sand-silt mixtures	els, gravel-sand-silt mixtures Atterberg limits belov					
AINED GHT L	MC CC LAR	THAN 12% FINES)	GC	Clayey gravels, gravel-sand-clay mixtures	Atterberg limits abo	ve "A" line or PI > 7				
ARSE-GR/ .F BY WEI	LF THE TION 75 mm	CLEAN SANDS (LESS THAN 5%	SW	Well-graded sands, gravelly sands	C <sub>U</sub> =D <sub>60</sub> /D <sub>10</sub> >6	$C_{C}=(D_{30})^{2}/D_{10} \times D_{60}$ 1 to 3				
COA N HALF	NDS AN HA FRAC	FINES)	SP	Poorly graded sands or gravelly sands	Not meeting all above requireme					
ЗЕ ТНА	S/ RE TH. DARSE GER TH	SANDS WITH	SM	Silty sands, sand-silt mixtures	Atterberg limits below "A" line or					
IOM	MO CC	THAN 12% FINES)	SC	Clayey sands, sand-clay mixtures	Atterberg limits above "A" line or I					
LLER	S BELOW "A" LIN	ILTS IE ON PLASTICITY	ML	Inorganic silts and very fine sands, rock flour, silty sands of slight plasticity	LL < 50					
r smal	CHART; NEGLI COI	GIBLE ORGANIC	МН	Inorganic silts, micaceous or diatomaceous, fine sandy or silty soils	LL > 50					
o soils veigh <sup>-</sup> µm	CI	LAYS	CL	Inorganic clays of low plasticity, gravelly, sandy, or silty clays	LL < 30					
AINEC F BY V AN 75	ABOVE "A" LIN CHART; NEGLI	E ON PLASTICITY GIBLE ORGANIC	CI	Inorganic clays of medium plasticity, silty clays	30 < LL < 50	SEE PLASTICITY CHART BELOW				
INE-GF N HAL TH/	CO	NTENT	СН	Inorganic clays of high plasticity	LL > 50					
F JRE THA	ORGANIC SI BELOW "A" LIN	LTS AND CLAYS IE ON PLASTICITY	LL < 50							
WC	CH	IART	ОН	Organic clays of high plasticity	LL > 50					



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		MPE	an <b>Englobe</b> cor	npa	nγ					TE	ST PIT	No :	22	<b>TP4</b> PAGE 1	01		
	CLIEI PRO. DATE DRILI EXC/	NT JECT NUMBER E STARTED06/23/2022 LING CONTRACTOR AVATION METHOD	Eastern Irrigation District 1560-193-00 6/23/2022 COMPLETED 06/23/2022 COMPLETED 06/23/2022 COMPLETED Eastern Irrigation District Excavator			OJECI OJECI ROUND	Γ NAME Γ LOCA 9 ELEVA	TION	77	Snake Lake Reservoir Exp NE 1/4 32-19-16 775.36m N 5612438.700 E					E 414258.500		
Depth (m)	SOIL SYMBOL	De	Soil scription	Sample Type	Sample Number	Moisture Content (%)	<ul> <li>MC</li> <li>⊢ PL</li> <li>■ SP</li> <li>100</li> <li>100</li> <li>PC</li> </ul>	DISTURI _ASTIC = T (N) BI 0 200 0 200 DCKET F	E CONTEN - LIQUID ows/300 mi <u>30 4</u> 200 4 PEN (kPa)	T n 10 00	R	EMARKS		Standpipe/ Instrument	Elevation (m)		
		TOPSOIL - 65 mm CLAY TILL, silty, some sar medium plastic, brown, sus SHALE (Weathered), clay weathered, light brown to c oxidation staining, damp, h finely fissured End of Bc	and silt, some sand, highly and silt, some sand, highly lark grey mottling, some high plastic, extremely weak,		B1						1 m - Disp Classificai 1 m - Dry 1766 kg/n Optimum 16.7%	persivity tion = ND Density = n3 Moisture	3		775- 774- 773- 772- 771- 771-		
16/11/202	2	Notes: North borrow search. Back	filled with uncompacted cutti	ngs.			4				Logged B	y: By:		<u>C. Tams</u> <u>F. Curtis</u>	<u>;</u>		

											ΤE	ST PIT No :	22	ГР4	02		
		MPE	e comp	ba	ny							F	AGE 1	0F 1			
	CLIE	NT	Eastern Irrigation Dis	trict		PR	OJECT	NAME		Snake Lake Reservoir Expansion							
	PRO	JECT NUMBER	1560-193-00			 PR0	JECT		ION			NE 1/4 32-19	-16				
	DATE	= STARTED 06/23/2022	COMPLETED	06/23/20	)22	GR		FI FVA	TION	77	14499.7	700					
	וופח		Eastern Irrigation	District			00112	,			0.00111						
	EVO		Eustern iniguter	District													
			LACAVAIO				1								T		
Depth (m)	SOIL SYMBOL	Des	Soil cription		Sample Type	Sample Number	Moisture Content (%)	<ul> <li>MO</li> <li>H PL</li> <li>■ SP<sup>-100</sup></li> <li>1000</li> <li>▲ PO</li> </ul>	ISTURE ASTIC - I (N) Blov 20 200 CKET PE	CONTEN LIQUID vs/300 m <u>30 4</u> 300 4	IT m <u>40</u> 00	REMARK	S	Standpipe Instrumen	Elevation (m)		
- - - - - - - - - - - - - - - - - -		CLAY TILL, some rounded sand, trace ironstone inclus rounded boulders up to 470 low to medium plastic, grey staining, gypsum crystals	some trace o, stiff, dation						<u>IN (NFd)</u>					779-			
- - - - - - - - - - - - - - - -		- SHALE (Weathered), silt ar	ighly		B1									778-			
- - - - - - - - - -		weathered, dark grey, mois to hard soil, finely fissured	t, high plastic, extren	nely weak											777-		
- - - - - - - - - - -						B2									776-		
- - - - - -			enoie @4.0 m												775-		
-5 - - - - - - -															774-		
<b>—</b>																	
		Notes: North borrow search. Backf	illed with uncompact	ed cuttings	6.							Logged By:	c	. <u>Tam</u> s			
												Reviewed Bv:	T	Curtis			
16/11/202	2													2 41 110			

		MP	E	an <b>Englobe</b> c	ompa	ny				TE	EST P	IT No: 2	2TP4	<b>103</b> 1 OF 1	
	CLIEI	NT		Eastern Irrigation District		PR	OJECI	NAME			Snake Lake Reservoir Expansion				
	PROJ	IECT NUMBER		1560-193-00		PR	OJECI		- N		N	E 1/4 32-19-16			
	DATE	STARTED	06/23/2022	COMPLETED (	)6/23/2022	GR		ELEVATI	ON _	779.47n	I7m N 5612554.700 F			414640.700	
		ING CONTRAC	TOR	Eastern Irrigation Dist	rict										
	FXCA		D	Excavator											
Depth		TOPSOIL - 50 CLAY TILL, gr to 300 mm, dr suspect white weathered mu 1.00m - 500 2.00m - oxid SHALE (Weat weathered, lig plastic, extrem	mm avely, silty, so y, firm, mediun sulphate inclu dstone mm boulder ized shale sea hered), clay a ht brown to da hely weak, blo End of Bord	Excavator Soil Cription  me sand, rounded cobb n to high plastic, grey, Isions, trace completely ams ams ams ams additional silt, trace sand, highl ark grey mottling, damp, cky, trace bentonite sea ehole @4.2 m	y high ms	Sample Number	Moisture Content (%)	● MOIS H PLAS ■ SPT (( 100 ▲ POCK	TURE CO STIC - LIQ N) Blows/3 200 3C 200 3C 200 3C 200 3C	NTENT UID 300 mm <u>0 400 kPa)</u>	1.3 m - 1.3 m - 1.3 m - 1.3 m - 1.761 kg Optimur 17.3%	REMARKS EC: 6.0 dS/m SAR: 8.0 pH: 8.2 Dry Density = /m3 n Moisture =	Standpipe/	Unit (m)	
- - - - - - - - - - - - - - -		Notes:									_			774-	
		North borrow s	search. Backfi	lled with uncompacted of	cuttings.										
					č						Logged	By:	C. Tame	5	
10/11/201-	<u>_</u>										Reviewe	ed By:	T. Curtis	S	
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										TE	ST PIT No :	22T	<b>P4</b>	04		
		MPE	comp	ba	ny					PAGE 1 0F						
	CLIE	NT	Eastern Irrigation Distr	ict		PRO	OJECT	NAME		Snake Lake Reservoir Expansion						
	PRO	JECT NUMBER	1560-193-00			PR	OJECT	LOCATION	I		NE 1/4 32-19-16	6				
	DATE	STARTED 06/22/2	022 COMPLETED	06/22/20	)22	GR	OUND	ELEVATION	N 7	76.17m	N 5612389.600	E 41	4786.7	700		
	DRIL	LING CONTRACTOR	Eastern Irrigation I	District												
	EXCA	- AVATION METHOD	Excavator													
, th	MBOL	-	0.1		Type	umber	ntent (%)	<ul> <li>MOISTU</li> </ul>	IRE CONTE	INT			tandpipe/ strument	ion		
Dep (m	SOIL SYI		Description		Sample	Sample N	Moisture Co	<ul> <li>PLASTI</li> <li>SPT (N)</li> <li>10 2</li> <li>100 2</li> <li>DOO(50)</li> </ul>	C - LIQUID Blows/300 20 30 00 300	mm 40 400	REMARKS		<i>o</i> =	Elevat (m)		
	3/////	TOPSOIL - 60mm CLAY TILL, some com silty, some gravel, boul medium to high plastic, trace root hairs	oletely weathered shale in ders up to 750 mm, dry, fir brownish grey, oxide staiı	clusions, m, ning,		D1	2	POCKE	<u>FPEN (kPa</u>	)	1 m - Dry Density =			776-		
- - - - -		SHALE (Weathered), c	onstone		ВТ					1713 kg/m3 Optimum Moisture = 18.7%	=		775			
- - - - - - -		concretions, highly we staining, damp, high pl blocky	y weathered, grey with oxidatior h plastic, extremely weak to ha											774-		
		3.00m - becoming ora	ange			B2					3.6 m - Dispersivity			773-		
- - - - - - - - - - - - - - - - - - -			n bolenole (#3.7 m								3.6 m - Dry Density 1627 kg/m3 Optimum Moisture = 20.7%	=		772-		
- - - - - -											-			771		
		Notes: North borrow search. E	ackfilled with uncompacte	d cuttings	S.											
			·	5							Logged By:	<u>С.</u> Т (	<u>Tams</u> Curtis			
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	CLIEN	NT		Eastern Irri	gation District		PR	OJECT	NAM	E			Snake L	ake Reservo	oir Expans	ion	
	PROJ	JECT NUMBER		1560-	193-00		PR	OJECT	LOC	ATION							
	DATE	STARTED	06/23/2022	COMPLE	TED 06/23/2	2022	GR	OUND	ELEV	ATION	1	780.99	m N	5612529.20	)0 E	414908.3	300
	DRILI	LING CONTRACT	OR	Eastern	Irrigation District												
	EXCA	VATION METHOD	)		Excavator												
																nt e/	
Depth (m)	SOIL SYMBOL		Des	Soil cription		Sample Type	Sample Number	Moisture Content (%	● M H F ■ SI 11 ▲ P	IOISTU PLASTIC PT (N) I 10 2 00 20 00 20	RE CON C - LIQU Blows/30 0 300 PEN (k	TENT ID 10 mm 40 400 Pa)	_	REMARI	<s< th=""><th>Standpip Instrume</th><th>Elevation (m)</th></s<>	Standpip Instrume	Elevation (m)
-		TOPSOIL - 60 CLAY TILL, silt mm, dry, firm to sulphate inclus	mm y, gravely, so stiff, mediu ions dation stainii sky, trace gy End of Bo	ome sand, ca m plastic, gr sand, medii ng, damp, m <u>psum crysta</u> rehole @5.0 n	um weathered, edium plastic, s		B1						1.2 m 1.2 m 1.2 m 1.7 m 1771 l Optim 	- EC: 3.7 d - SAR: 2.5 - pH: 7.9 - Dry Dens (g/m3 um Moistur	IS/m .ity = re =		780
16/11/202	2	Notes: North borrow s	earch. Back	filled with un	compacted cutting	gs.		<u> </u>			. 1		Logge Revie	d By: wed By:	(	<u> </u>	

an <b>Englobe</b> com											TEST PIT No: <b>22TP406</b> PAGE 1 0F 1							
	CLIE	NT		Eastern Irrigation Di	strict		PR	JECT	NAME		Snake Lake Reservoir Expansion							
	PRO.	JECT NUMBER		1560-193-00			PR(	DJECT		NC		NE 1/4 32-19-16						
			06/22/2022		06/22/2	022	GR(		ELEVATI	ON	777 61m N 5612396 300 ⊑ 4150							
			OR	Eastern Irrigatio	n District	022		COND										
	FXC		ייי ו	Excavate	or													
				Excavate				(%)						ine/	hent			
epth m)	YMBOL		S	Soil		e Type	Numbe	ontent	● MOIS	TURE C	ONTEN QUID	т	REMARKS	Stando	Instrum	ation (Ր		
	L S		Des	cription		mpl	ple	9 0	■ SPT (	N) Blows	s/300 mr	n				ülex Ü		
	SOI					Sa	San	Moistu	10 100	20 200 3	<u>30 4</u> 300 4	0 00	-					
-	55 55	TOPSOIL - 100	)mm						- 1001									
- - -		CLAY TILL, sor silty, some grav low to medium some oxidation	inclusions, , dry, soft, mottling,											- - - - -				
-																-		
-		1											1 m Disporsivity			-		
- '		1					B1						Classification = ND2			-		
F		1											1 m - Organic Conter	nt 刘		-		
_		1.50m - no cobbles											1 m - Dry Density =			-		
-		SHALE (Weath	iered), clay a	nd silt, some sand,	highly	1							1740 kg/m3			776		
-		weathered, light brown to dark grey mottling, oxidation			xidation								17.5%			-		
-2		-stairing, dry, fii	gri plastic, ve	ery weak												-		
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-			End of Bor	ehole @3.6 m														
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<u> </u>		Notes:											1	I				
		North borrow se	earch. Backfi	illed with uncompac	ted cutting	s.							Logged By:	С. Та	ams			
										Reviewed Rv.	<u>т</u> Сі	Irtis						
16/11/202	2													1. 00				

											TE	EST PIT No :	227	ГР4	-07
		MPE	an Englobe	e comp	ca	ny							F	AGE 1	0F 1
	CLIE	NT	Eastern Irrigation Dis	strict		PR	DJECI	ΓΝΑΜ	IE			Snake Lake Reservoir	Expansic	on	
	PRO.	JECT NUMBER	1560-193-00			PR(	DJECI	ГЬОС	ATION	. —		NE 1/4 32-19-	16		
				06/22/20	122	GR(	חאוור				776 98n	n N 5612493.600	F 4	15254.	400
	ווסח		Eastern Irrigation	District						• –	110.001	<u> </u>			
	EVC		Eastern Inigation	r District											
				I		er	(%)							pipe/ ment	
ج.	BO				_ype	qmr	Itent	• N	IOISTU	IRE CON	TENT			and	u
(m) (m)	SYN		Soil Description		ole 1	e N	Cor	HF	PLASTI	C - LIQU	ID	REMARKS	;	오드	vati
	SIL 3		Description		am	du	ure	∎ s	PT (N)	Blows/30	0 mm				Ele
	) N				S	Sa	loist	. 1	10 2	<u>20 30</u>	40	_			
							Σ	▲ P	OCKET	FPEN (k	Pa)				
-		CLAY TILL, silt, som	e sand, trace gravel, some	rounded											
F		cobbles up to 300 m	im, trace sand, damp, stiff, i	medium											
-		piastic, light brown to	o brown, oxide specs												
-		1													
-		1				5.4						1 m - Dry Density =	=		776
_		1				B1						1760 kg/m3			
L		1										Optimum Moisture	=		
_		SHALE (Weathered)	), clay and silt, trace sand, o	completely											
_	··	moist, high plastic, e	extremely weak to hard soil,	blocky,											
-		ironstone concretion	is up to 500 mm	-											775
2 -	·	2.00m - becoming	orange from oxidation stain	ing,								-			115
-	·	gypsum crystals													
-		•													
-		-													
	· · · · ·	•				B2									
-3		-													774
-	·	3 20m - some amn	nonite inclusions												
-															
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-4	·	-													773
-		En	nd of Borehole @4.1 m												1
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		Notes:													
		North borrow search	n. Backfilled with uncompact	ted cuttings	5.							Leaved Do	~	D	_
												Logged By:	<u> </u>	<u>braun</u>	1
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		MP	E	an <b>Englobe</b>	e com	ра	ny			TE	ST PIT No :	<b>22</b> ]	<b>ГР4</b> PAGE 1	0 <b>8</b> 0F 1
	CLIEI	NT		Eastern Irrigation Dis	strict		PR	OJECI	ΓΝΑΜΕ	S	Snake Lake Reservoir I	Expansio	on	
	PRO	JECT NUMBER		1560-193-00			PR	OJECI	LOCATION		NE 1/4 32-19-1	16		
	DATE	STARTED	06/22/2022	COMPLETED	06/22/2	022	GR	OUND	ELEVATION	775.76m	N 5612309.700	E 4	15217.2	200
	DRIL	LING CONTRACT		Eastern Irrigation	District									
	EXCA	AVATION METHO	D	Excavato	r									
Depth (m)			S Desc mm)	oil ription		Sample Type	Sample Number	Moisture Content (%)	<ul> <li>MOISTURE C</li> <li>PLASTIC - LII</li> <li>SPT (N) Blows</li> <li>10 20</li> <li>100 200 3</li> <li>POCKET PEN</li> </ul>	ONTENT QUID 5/300 mm 30 40 1( <u>kPa)</u>	REMARKS	;	Standpipe/ Instrument	Elevation (m)
		CLAY TILL, so rounded, trace sand, damp, s specs, suspec	me silt, gravel rounded cobl tiff, medium pl t white sulpha	y, Gravel is mediun bles up to 650 mm, astic, brown with ov te inclusions	n grained trace kidation									
- - 1 - -		SHALE (Weath ironstone conc weathered, gre low to medium blocky	hered), clay ar cretions up to 4 eyish brown w i plastic, extrei	nd silt, some sand, i 400 mm, completely ith oxidation stainin mely weak to hard s	some / g, damp, soil,		B1							775
-														
-		-												114-
2 -	·	•												-
-														-
-	·	-												-
-														-
-	· ·	•												
3 		•												
-	·	-												-
-	·	-												-
-	·	•												-
_		•					B2				3.8 m - Dispersivity	, 		772-
-4			End of Bore	hole @3.9 m							3.8 m - EC: 9.7 dS	3 m		-
F											3.8 m - SAR: 19.1			-
-											3.8 m - pH: 4.7 3.8 m - Dry Density	/ =		-
-											1729 kg/m3			-
-											Optimum Moisture	=		771-
5														-
-														-
-  -														-
-														-
-														770-
-											-			-
		Notes:				_	1	<u> </u>	4		I		1	L
		North borrow s	search. Backfil	led with uncompac	ted cutting	IS.					Logged By:	C.	Braun	<u>ı                                    </u>
16/11/202	22										Reviewed By:	T.	Curtis	

CL PF D/	LIENT ROJECT NUMBER ATE STARTED RILLING CONTRACTOR	Eastern Irrigation District	pa	ny						PAGE 1 (	0F 1
CL PF D/ DF	LIENT ROJECT NUMBER ATE STARTED0 RILLING CONTRACTOR	Eastern Irrigation District 1560-193-00									
PF D/ DF	ROJECT NUMBER ATE STARTED RILLING CONTRACTOR	1560-193-00		PR	OJECT	NAM	Ē		Snake Lake Reservoir E	xpansion	
D/ Df	ATE STARTEDO			PR	OJECT	LOCA	TION		NE 1/4 32-19-16	6	
DF	RILLING CONTRACTOR	6/22/2022 COMPLETED 06/22/2	2022	GR	OUND	ELEV	ATION	769.67	m N 5611757.600	E 416865.60	00
		R Eastern Irrigation District									
E>	KCAVATION METHOD	Excavator									
Depth (m)	SOIL SYMBOL	Soil Description	Sample Type	Sample Number	Moisture Content (%)	● M ⊢ P ■ SF 1 10 ▲ P0	OISTURE LASTIC - PT (N) Blo 0 20 00 200 DCKET PE	CONTENT LIQUID ws/300 mm <u>30 40 300 400</u> S0 (kPa)	REMARKS	Standpipe/ Instrument	Elevation (m)
- 12	TOPSOIL (80 mm	n)									
	CLAY, silt, trace s brown, suspect w SAND and GRAV grained, Gravel is graded, damp, co	and, dry, stiff, blocky, low plastic, light hite sulphates EL, trace silt, Sand is medium to coarse subangular medium grained, well mpact, brown with oxidation specs	k	AU1					0.5 m - EC: 0.6 dS/r 0.5 m - SAR: 1.6 0.5 m - pH: 7.3 0.5 m - Sand = 5.1% Silt = 39.5% Clay = 55.49 1.5 m - Gravel = 10. 1.5 m - Sand = 82.5 Fines = 7.5%	n 6 6 6 0% 6	- - 768- - 767-
	GRAVEL, sandy, Gravel is well rou very loose, browr 3.30m - SEEPA 1.3x0.6,x1.1 m SHALE, clay and dark grey, damp, fissured	some cobbles to boulders, trace fines, nded, poorly graded, Rounded, wet, s, some oxidation staining GE, FREEWATER, Boulder, silt, some sand, medium weathered, medium plastic, extremely weak, finely End of Borehole @4.9 m		B2					3.4 m - Gravel = 1.0 3.4 m - Sand = 90.2 Fines = 8.8%	% % 6	- 765- 764-
	Notes:			1	<u> </u>	<u> </u>					
	Test pit north of a	bandoned gravel pit. Hole backfilled with	ו un	compac	ted cu	ittings	-		Logged By:	C. Braun	
40/41/0000									Reviewed By:	T. Curtis	

	CLIENT PROJEC DATE ST	CT NUMBER TARTED07/0	6/2022	Eastern Irrigation District 1560-193-00 COMPLETED0	7/06/2022	PR PR GR	OJECT OJECT	NAME	TION		766.28m	Snake Lake Reservoir E NE 1/4 32-19-16	pansion E 416	524.70	00
	DRILLIN EXCAVA	IG CONTRACTOR		Eastern Irrigation Dist	rict										
Depth (m)	SOIL SYMBOL		S Desc	oil ription	Sample Type	Sample Number	Moisture Content (%)	<ul> <li>MC</li> <li>⊢ PL</li> <li>SP<sup>-</sup></li> <li>10</li> <li>PO</li> </ul>	ASTIC ASTIC T (N) BI 20 0 200 CKET F	E CON1 - LIQUII ows/300 30 9 300 9 EN (kP	ENT D 0 mm 40 400 a)	REMARKS	0h	Standpipe/ Instrument	(m)
- - - - - - - - - - - - - - - - - - -		LAY TILL, silty, trac ledium to high plas	), clay ar n grey, d de staini	trace gravel, moist, stiff n, sulphate crystals nd silt, trace sand, highly amp, high plastic, very v ng	y weak,	B1						4.5 m - Dry Density = 1622 kg/m3 Optimum Moisture = 20.8%	=		765- 764- 763- 762- 761-
	No Te	otes: est pit backfilled wit	th uncon	npacted cuttings								Logged By: Reviewed By:	B.Tat	taryn urtis	

		MPE	an <b>Enalobe</b>	com	ca	nν				TE	ST PIT No	: <b>22</b>	TP4 PAGE 1	11 0F 1
	CLIEI PRO. DATE DRILI	NT	Eastern Irrigation Dis 1560-193-00 COMPLETED _ Eastern Irrigation	trict 06/22/20 District	)22	PR( PR( GR(	DJECT DJECT DUND	NAME LOCATIO ELEVATIO	 ЭN	5 764.47m	nake Lake Reservo NE 1/4 32-1 N5611304.50	<u>oir Expansio</u> 9-16 00 E4	on 416861.4	400
Depth		ORGANIC CLAY, silty, trace medium plastic, dark brown CLAY, some silt, very moist, gypsum crystals, root hairs (1.80m - becoming no root SHALE (Weathered), clay a weathered, dark mottled bro extremely weak to hard soil staining 2.00m - moisture decreasi 2.10m - some ironstone co	Eastern Irrigation Eastern Irrigation Excavator Soil cription sand, very moist, si organic odour, root soft, medium plastic hairs nd silt, trace sand, h wm, moist, high plas blocky, finely fissur ng oncretions	oft, low to hairs c, brown,	Sample Type	B1 B2	Moisture Content (%)	● MOIST H PLAS ■ SPT (N 10 ▲ POCK	TURE CON TIC - LIQU 4) Blows/30 200 300 ET PEN (k	ITENT ID 00 mm 40 0 400 Pa)	REMAR	<s< th=""><th>Standpipe/</th><th>Uu (u) (u) (u) (u) (u) (u) (u) (u) (u) (u)</th></s<>	Standpipe/	Uu (u) (u) (u) (u) (u) (u) (u) (u) (u) (u)
	2	Notes: Test pit within wetland area.	Backfilled with unco	ompacted o	cutti	ngs.					Logged By: Reviewed By:	C T	. Braun	- -

		APC	an <b>Englob</b> e	e compa	any			TE	EST PIT No :	22TP412 PAGE 1 0F
	CLIENT		Eastern Irrigation Dis	strict	PF	ROJEC.	T NAME		Snake Lake Reservoir Ex	pansion
	PROJECT	T NUMBER	1560-193-00		PF	ROJEC	T LOCATION		NE 1/4 32-19-16	
	DATE ST	ARTED 07	7/06/2022 COMPLETED	07/06/2022	2 GF	ROUNE	ELEVATION	768.06m	N 5611183.800	E 416527.700
	DRILLING	G CONTRACTOR	Eastern Irrigatior	District						
	EXCAVAT	ION METHOD	Excavato	r						
Depth (m)	SOIL SYMBOL		Soil Description	Samole Tvoe	Sample Number	Moisture Content (%)	<ul> <li>MOISTURE (</li> <li>⊢ PLASTIC - L</li> <li>■ SPT (N) Blow</li> <li>10 20</li> <li>100 200</li> <li>▲ POCKET PEI</li> </ul>	CONTENT IQUID s/300 mm 30 40 300 400 N (kPa)	REMARKS	Standpipe/ Instrument Elevation
		AVEL AND CO orly graded, dry IALE (Weathered athered, brown ry weak, thinly la	BBLE, sandy, some silt, trace to damp, compact, brown ed), clay and silt, trace sand, l ish grey, damp, medium to his aminated End of Borehole @4.6 m	nighly gh plastic,	B1				4 m - Dry Density = 1547 kg/m3 Optimum Moisture = 23.0%	768- 767- 766- 766- 765- 765- 763-
	No Tes	tes: st pit backfilled	with uncompacted cuttings							
16/11/2022	2								Logged By: Reviewed By:	B.Tataryn T. Curtis

	MP	E	an <b>Englobe</b>	compa	any			TE	EST PIT No: 2	2 <b>TP4</b> PAGE 1	<b>13</b>
	CLIENT PROJECT NUMBER DATE STARTED	07/06/2022	Eastern Irrigation Distr 1560-193-00 _ COMPLETED	ict 07/06/2022	PR PR GR	OJECI OJECI	NAME LOCATION ELEVATION	765.73n	Snake Lake Reservoir Exp. NE 1/4 32-19-16 n N_5611181.100_ E	ansion 416827.	100
	DRILLING CONTRACT EXCAVATION METHO	OR	Eastern Irrigation D Excavator	District							
Depth (m)	SOIL SYMBOL	S Desc	oil ription	Sample Type	Sample Number	Moisture Content (%)	<ul> <li>MOISTURE</li> <li>PLASTIC -</li> <li>SPT (N) Blov</li> <li>10 20</li> <li>100 200</li> <li>POCKET PE</li> </ul>	CONTENT LIQUID ws/300 mm 30 40 300 400 EN (kPa)	REMARKS	Standpipe/ Instrument	Elevation (m)
	CLAY TILL, silt medium to high 0.30m - some 0.50m - heav 1.00m - fine g	y, some sand n plastic, brow e gravel, some y oxide stainin grained sand p nered), clay an ownish grey, d ed, oxide stair	, moist to very moist, rn e cobble, <300mm ng bocket 400mm nd silt, trace sand, hig amp, high plastic, we hing	ghly eak,	B1				<ul> <li>1 m - Organic Content = 4.7%</li> <li>1 m - Dry Density = 1656 kg/m3 Optimum Moisture = 19.7%</li> <li>2.5 m - Dispersivity Classification = D2</li> <li>2.5 m - Dry Density = 1516 kg/m3</li> <li>Optimum Moisture = 21.8%</li> </ul>		765- 
16/11/202	Notes: Test pit backfill	ed with uncor	npacted cuttings						Logged By: Reviewed By:	B.Tataryr T. Curtis	<u>1</u>

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								TE	EST PIT No :	22 <b>T</b> P4	414
		G	an <b>Englob</b> e	e comp	any					PAGE	1 0F <sup>-</sup>
	CLIENT		Eastern Irrigation Di	strict	PF	ROJECT	ΓΝΑΜΕ	5	Snake Lake Reservoir	Expansion	
	PROJECT NUMBER		1560-193-00		PF	ROJECT	LOCATION		NE 1/4 32-19-1	16	
	DATE STARTED	07/06/2022	COMPLETED	07/06/202	 2 GF	ROUND	ELEVATION	766.58m	N 5610901.100	E 416786	3.800
		CTOR	Eastern Irrigatio	District	0.				<u> </u>		
			Excavate	or							
									1		E
Depth (m)	SOIL SYMBOL	S Desc	Soil sription	Control Distance	Sample Number	Moisture Content (%)	<ul> <li>MOISTURE C</li> <li>PLASTIC - LI</li> <li>SPT (N) Blow</li> <li>10 20</li> <li>100 200</li> <li>POCKET PEN</li> </ul>	CONTENT IQUID s/300 mm <u>30 40</u> 300 400 y (KPa)	REMARKS	Standpipe	Elevation (m)
	CLAY TILL A moist, stiff, hi highly oxide s pockets, (cor	ND GRAVEL, s igh plastic, brow staining, black a nglomerate form silty, trace grave igh plastic, gre seams through	ilty, some sand, mo vn, grey, gypsum ci and gold specs, tra- nation) el, trace sand, mois yish brown, sulpha out	bist to very rystals, ce sand t to very te	■ B1				-1.1 m - LL = 70% PL = 17.9% PI = 52%		766-
- 	SHALE (Soft weathered, g laminated	ened), clay and rey, damp, high End of Bore	silt, trace sand, hig plastic, weak, thin hole @4.6 m	ghly ly	<b>B</b> 3				4.5 m - Dry Density 1643 kg/m3 Optimum Moisture 20.5% 4.5 m - LL = 66% PL = 14.7% PI = 52%	/ = =	763
	Notes:										
	Test pit backf	filled with uncor	npacted cuttings.						Logged By:	<u> </u>	<u>yn</u>
16/11/202	2										

CLI	ENT	Eastern Irrigation District		PR(	OJECT	NAME		Snake Lake Reservoir Expa	nsion
PR	OJECT NUMBER	1560-193-00		PR0	OJECT	LOCATION		NE 1/4 32-19-16	
DA	TE STARTED	07/06/2022 COMPLETED 07/06/	2022	GR	OUND	ELEVATION	765.50m	N 5610121.400 E	416824.30
DR	LLING CONTRACT	OR Eastern Irrigation District							
EX	CAVATION METHO	D Excavator							
(m)		Soil Description	Sample Type	Sample Number	Moisture Content (%)	<ul> <li>MOISTURE (</li> <li>PLASTIC - L</li> <li>SPT (N) Blow</li> <li>10 20</li> <li>100 200</li> <li>POCKET PE</li> </ul>	CONTENT IQUID /s/300 mm 30 40 300 400 N (kPa)	REMARKS	Standpipe/ Instrument
	CLAY TILL, silt stiff, medium to staining, sulpha 0.50m - highly (<200mm) SHALE (Weath weak, high plas orange oxidation SHALE (Softer weathered, gre laminated	y, trace sand, trace to some gravel, moist, high plastic, brown, some oxidation ate crystals y oxidized pockets, some cobble hered), clay and silt, trace sand, moist, ver stic, highly weathered, brown with some on staining, blocky	y	B1 B2 B3				3.5 m - Dry Density = 1636 kg/m3 Optimum Moisture = 19.5% 4 m - Dry Density = 1636 kg/m3 Optimum Moisture =	
	Notes:	End of Borehole @4.5 m	with					19.5 %	

		MPE	an <b>Englobe</b> com	ipa	iny			TE	ST PIT No :	22TP41 PAGE 1 0	6 F 1
	CLIE	NT	Eastern Irrigation District		<b>,</b> PR0	DJECT	NAME	S	nake Lake Reservoir I	Expansion	
	PRO	JECT NUMBER	1560-193-00		PRO	DJECI	LOCATION		NE 1/4 32-19-1	16	
	DATE	E STARTED 07/06/	2022 COMPLETED 07/06/2	2022	GR	DUND	ELEVATION	768.69m	N 5610008.000	E 416828.50	<u>ე</u>
	DRIL	LING CONTRACTOR	Eastern Irrigation District								
	EXC	AVATION METHOD	Excavator								
Depth (m)	SOIL SYMBOL		Soil Description	Sample Type	Sample Number	Moisture Content (%)	<ul> <li>MOISTURE C</li> <li>PLASTIC - LI</li> <li>SPT (N) Blows</li> <li>10 200</li> <li>100 200</li> <li>100 200</li> </ul>	ONTENT QUID 3/300 mm 30 40 300 400	REMARKS	Standpipe/ Instrument Flevation	(m)
		SAND, clayey, some s grained, damp, loose, organic odour 0.80m - becomes dr	silt, poorly graded, fine to medium brown, some oxidation staining, y		B1			((K+a)		7	68
		2.40m - medium gra oxidized. SILT, clayey, trace sar plastic, brown, orangis laminated, sand pocke SHALE (Weathered), weathered, brownish weak, thickly laminate	ined wet sand seam (20mm), nd, very moist to wet, firm, low sh some oxidation staining, ets clay and silt, trace sand, highly grey, damp, high plastic, extremely d		B2					7	
- 4 - - - - - - - - -		End	of Borebole @4.8 m		B3					7	64-
- - - - - - - - -										7	63-
16/11/202	2	Notes: Test pit backfilled with	uncompacted cuttings.			·	-		Logged By: Reviewed By:	B.Tataryn T. Curtis	

		MPE	an <b>Englobe</b> com	ipa	iny				TE	EST PIT No :	22	<b>TP4</b> PAGE 1	. <b>17</b>
	CLIEI PRO. DATE DRILI	NT	Eastern Irrigation District 1560-193-00 22 COMPLETED 06/23/2 Eastern Irrigation District	2022	PR( PR( GR	OJECT OJECT OUND	NAME LOCATIO ELEVATIC	N DN7	68.34m	Snake Lake Reservoi NE 1/4 32-19 NN5609701.600	<u>r Expans</u> -16 ) E	ion 416810.{	900
Depth		LING CONTRACTOR	Eastern Irrigation District Excavator Soil bescription some sand, some cobbles up to h plastic, greyish brown	Sample Type	Sample Number	Moisture Content (%)	MOIST     H PLAST     SPT (N     10     100     2     POCKE	URE CONTE TIC - LIQUID ) Blows/300 r 20 30 200 300 ET PEN (kPa)	NT 40 400	REMARK 1 m - Dispersivity Classification = N 1 m - EC: 9.5 dS/ 1 m - SAR: 25.0 1 m - Dry Density 1820 kg/m3 Optimum Moisture 15.5% 1 m - LL = 60% PL = 14.2% PI = 46%	S  D3 m = ⇒ =	Standpipe/ Instrument	(m)
- - - - - - - - - - - - - - - - - - -		Notes: SE Borrow search. Back	Borehole @3.6 m	gs.	B2								765
16/11/202	2		,	J ·						Logged By: Reviewed By:		<u>C. Tams</u> T. Curtis	

									TE	ST PIT No :	22TP4	418
		MPG	an Englobe	e comp	a	ny					PAGE	1 0F <sup>-</sup>
	CLIEI	NT	Eastern Irrigation Dis	strict		PR	DJECT	NAME	s	nake Lake Reservoir E	Expansion	
	PRO.	JECT NUMBER	1560-193-00			PR	DJECT	LOCATION		NE 1/4 32-19-1	6	
	DATE	E STARTED 06/2	23/2022 COMPLETED	06/23/202	22	GR		ELEVATION	769.28m	N 5609489.700	E 416583	.400
	DRIL	LING CONTRACTOR	Eastern Irrigation	District								
	EXCA	AVATION METHOD	Excavator	r								
											e	=
	2				a	Der	it (%		ONTENT		dpipe	2
÷ ÷	MBO		0-11		Ţ	nmk	nter		JNTENT		tand	ion i
Dep (	SYI		Description		ple	le N	ပိ	H PLASTIC - LIC	QUID	REMARKS	0 =	evat
	<b>G</b>				San	amp	sture	SPT (N) Blows	/300 mm			Ē
	0					ũ	Mois	10 20 3	30 40 300 400			
	<u>\$\$</u> \$\$	TOPSOIL - 50 mm							(кра)			\$
-	P	CLAY TILL, gravely,	silty, some sand, some cob edium plastic light brown t	bles up to								769-
-	P	medium grained sar	nd lenses	liuoo								
-												8
-						B1						· ·
-1												8
-												768-
-												Š.
-	$ \ge$											8
-		SHALE (Weathered weathered, dark gre	), clay and silt, trace sand, ev with oxidation staining, me	highly oist. high								-
-2	·	plastic, extremely w	eak to hard soil, finely fissur	red								)
F												767-
L	· · · · · ·	•										Ì
-		-										8
-	· · · · ·	•										- 8
-3												×.
F	·					B2						766-
-	<u> </u>	Er	nd of Borehole @3.4 m									Z
-												
-												-
-4												
-												765-
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-												
-												-
—5 -												
F												764-
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F												-
									; ;			
		Notes:										
		SE Borrow search. I	Backfilled with uncompacted	d fill/cuttings	5.					Loggod Dyg	0 T	•
										Logged By:		5
16/11/202	2									reviewed by:		5

	CLIENT	Eastern Irrigation District		PR	OJECI	NAME			Snake La	ke Reservoir Exp	ansion	
	PROJECT NUMBER	1560-193-00		PR	OJECT	LOCATI	ON		Ν	JE 1/4 32-19-16		
	DATE STARTED	07/06/2022 COMPLETED 07/06/	2022	GR	OUND	ELEVAT	ION	771.57	m N	5609500.200 E	416288.	300
	DRILLING CONTRACT	TOR Eastern Irrigation District										
	EXCAVATION METHO	D Excavator										
Depth (m)	SOIL SYMBOL	Soil Description	Sample Type	Sample Number	Moisture Content (%)	<ul> <li>MOIS</li> <li>⊢ PLA</li> <li>■ SPT 10 100</li> <li>POC</li> </ul>	STURE C STIC - L (N) Blow <u>20</u> 200 KET PEN	CONTENT QUID s/300 mm <u>30 40</u> 300 400 v (kPa)		REMARKS	Standpipe/ Instrument	Elevation (m)
- - - - - - - - - - - - - -	CLAY, silty, sor plastic, brown, CLAY TILL, sil plastic, grey, s 0.70m - 150r	me sand, damp to dry, stiff, low to medium grey, root hairs ty, trace sand, dry, stiff, medium to high uspect white sulphate inclusions, blocky nm gravel layer (<75mm)		B1								771-
- - - - - - - - - - - - - - - - - - -	SHALE (Weath weathered, broweak, oxide st	hered), clay and silt, trace sand, extremely ownish grey, damp to dry, high plastic, ven aining, thickly laminated	/ y	B2								770-
- 		End of Borehole @4.5 m		B3								768-
- - - - - - - - - - - - - - - - - - -	Notos:	_										766-

		MPE		an <b>Englobe</b>	e com	ca	ny			TE	ST PIT No :	<b>22</b>	TP4 PAGE 1	20
	CLIE	NT		Eastern Irrigation Dis	strict		PRO	).IEC1		s	nake Lake Reservoir	Fxnansi	on	
	PRO.			1560-193-00			PR(			0	NF 1/4 32-19-	<u>- xpansk</u> 16	511	
		STARTED 07/0	6/2022		07/06/20	122	GR(		ELEVATION	771 48m	N 5609526.000	<u>с</u> Е (	416103.(	000
			012022	Eastern Irrigation	District						N			
	FXC			Excavato										
Depth (m)	SOIL SYMBOL	CLAY TILL, silty, trac	S Desc ce sand,	oil ription moist, high plastic,	stiff,	Sample Type	Sample Number	Moisture Content (%)	<ul> <li>MOISTURE CO</li> <li>PLASTIC - LIC</li> <li>SPT (N) Blows</li> <li>10 20 3</li> <li>100 200 3</li> <li>POCKET PEN</li> </ul>	DNTENT QUID /300 mm 30 40 00 400 (kPa)	REMARKS	;	Standpipe/ Instrument	Elevation (m)
		brown to grey, suspe 0.70m - 100mm gr 1.80m - becoming SHALE (Weathered) completely weathered) very weak, blocky SANDSTONE, silt, s light brown, grey, dry finely stratified	ect white avel sea brown, f ),clay an ed, brow	<ul> <li>sulphate inclusion:</li> <li>m (50mm)</li> <li>lakey</li> <li>d silt, trace sand, h</li> <li>n, dry to damp, high</li> <li>y, completely weath</li> <li>low plastic, extrem</li> <li>hole @4.5 m</li> </ul>	ighly to n plastic, nered, ely weak,		B1 B2							7771- 770- 769- 768- 768-
16/11/202	2	Notes: Test pit backfilled wit	th uncon	npacted cuttings.				<u> </u>	<u></u>		Logged By: Reviewed By:	<u>B.</u> T	. <u>Tataryr</u> Curtis	<u>1</u>

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	CLIENT		Eastern Irrigation Dis	strict	PR	OJECT	NAME	S	nake Lake Reservoir I	Expansion	
	PROJECT NUMBER		1560-193-00		PR	OJECI	LOCATION		NE 1/4 32-19-1	6	
	DATE STARTED	07/07/2022	COMPLETED	07/07/2022	2 GR	OUND	ELEVATION	772.76m	N 5609473.400	_ E415792	2.800
	DRILLING CONTRAC	TOR	Eastern Irrigatior	n District							
	EXCAVATION METHO	D	Excavato	r			•				
Depth (m)	Solt SYMBOL	So Descri	il ption	Samole Tyne	Sample Number	Moisture Content (%)	<ul> <li>MOISTURE</li> <li>PLASTIC - I</li> <li>SPT (N) Biov</li> <li>10 20</li> <li>100 200</li> <li>POCKET PE</li> </ul>	CONTENT LIQUID vs/300 mm <u>30 40</u> 300 400 :N (kPa)	REMARKS	Standpipe/	Elevation (m)
	CLAY TILL, sil stiff, medium to SHALE (Weat weathered, browneak, thickly be weak, thickly be	ty, some sand, f o high plastic, b hered), clay and ownish grey, me aminated, oxide	trace gravel, mois rownish grey, oxid d silt, trace sand, f edium to high plas staining	t, stiff, de staining	B1						- 7772- 7771- 7770- 769- 768-
	Notes:									I	
	Test pit backfil	led with uncom	pacted cuttings								
									Logged By:	B.Tatar	yn
16/11/2020	0								Reviewed By:	T. Curt	is

											TE	EST PI	IT No :	22	TP4	22
				an <b>Englobe</b> con	ipa	iny									PAGE 1	1 0F 1
	CLIEI	NT		Eastern Irrigation District		PR	OJECT	T NAM	E		5	Snake Lak	e Reservoir	Expans	ion	
	PRO	JECT NUMBER		1560-193-00		PR	OJEC	T LOCA	ATION			NE	E 1/4 32-19-1	16		
	DATE	STARTED	07/07/2022	COMPLETED07/07	/2022	GR	OUND	) ELEV	ATION	7	74.71m	n_N_56	609515.000	_ E _	415499.	300
	DRILI	LING CONTRAC	TOR	Eastern Irrigation District												
	EXCA	AVATION METHO	D	Excavator								1				
Depth (m)	SOIL SYMBOL		Des	Soil cription	Sample Type	Sample Number	Moisture Content (%)	● M	OISTU PLASTIC PT (N) E 0 20 00 20 OCKET	RE CONTE C - LIQUID Blows/300 r 0 30 0 300 PEN (kPa)	NT nm 40 400	-	REMARKS	3	Standpipe/ Instrument	Elevation (m)
		TOPSOIL - na CLAY TILL, sil brownish grey inclusions, trac highly weather weak, thickly la pockets 2.60m - woo	tive vegetatic ty, some sand , oxide stainir ce root hairs red, brown, g aminated, oxi d debris (100	n d, moist, stiff, medium, ng, suspect white sulphate and silt, trace sand, moist, rey, high plastic, extremely de staining, trace bentonitic mm)		B1					1	1.2 m - l PL PI 3.8 m - I 1524 kg Optimun 21.5%	L = 48% . = 15.7% = 32% Dry Density /m3 n Moisture	/ =		774- 7774- 7773- 7772- 7771- 7770- 7769-
	1	Notes:				1	1					<u>.</u>				<u></u>
16/11/202	2	Test pit backfil	led with unco	mpacted cuttings								Logged Reviewe	By: ed By:	E	3.Tataryr T. Curtis	<u>n</u> ;

					• • • • •	<u> </u>							TE	ST PIT	No :	22	TP4	23
	V				e com	ha	шу										PAGE 1	⊤UF 1
	CLIE	NT		Eastern Irrigation D	istrict		PR	OJECT	NAN	1E	_		Sr	nake Lake F	Reservoir E	xpans	ion	
	PRO	JECT NUMBER		1560-193-00			PR	OJECT	LOC	ATION	<u>ا</u> ا			NE 1	/4 32-19-1	6		
	DATE	STARTED	07/07/2022	_ COMPLETED	07/07/2	022	GR	OUND	ELE\	/ATIO	Ν.	778.	.63m	N 560	9460.000	E	415187.	500
	DRIL	LING CONTRACT	ror	Eastern Irrigatio	n District													
	EXCA	AVATION METHO	D	Excavato	or													
Depth (m)	SOIL SYMBOL		So Descri	pil iption		Sample Type	Sample Number	Moisture Content (%)	● M 	MOISTU PLASTI SPT (N) 10 2 100 2 POCKE	JRE CO C - LIQ Blows/3 20 30 00 30 T PEN (	NTENT JID 300 mm <u>0 40</u> 0 400 kPa)	)	RI	EMARKS		Standpipe/ Instrument	Elevation (m)
-	\$\$ \$\$	TOPSOIL - nat	tive grasses	<b>6</b> 1														-
-		brown, oxide s	ce sand, dry, so taining	oπ, low to medium	n plastic,													
F			0															
-	· <u>··</u> ·	SHALE (Weath	l, residual													778-		
-		plastic, extrem	me oxidation st ely weak, friabl	instone														
1  -		concreteions <	400mm			B1											-	
F	·	•																
F		-																
-	··	•															777-	
-		-																
-2	· · · · ·	2.00m - beco	mes extremely	<sup>,</sup> weathered, dam	p, no													
		gravel, trace ox	kidized large co	bbles														
L	·····	•																
_		-																776-
_	· · · · ·	•																
-3		-																
E		• • •																-
E																		
-	·	· -																775-
-							B2											
-4	·	-	End of Boreh	ole @4.0 m		-												4
-				C														-
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Ł																		774-
F																		
-5																		
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		Notes: Test pit backfill	led with uncom	pacted cuttings.									I			_		<u></u>
													L	logged By	y:	B	. Tataryr	<u>1</u>
16/11/202	2												F	Reviewed	Ву:	7	I. Curtis	·

		an <b>Englobe</b> com	ра	ny			TE	EST PIT No: 2	2TP424 PAGE 1 OF 1
	CLIENT	Eastern Irrigation District		PR	OJECT	ΓΝΑΜΕ	S	Snake Lake Reservoir Exp	ansion
	PROJECT NUMBI	ER 1560-193-00		PR	OJEC			NE 1/4 32-19-16	
	DATE STARTED	07/07/2022 COMPLETED 07/07/2	2022	 GR	OUND	ELEVATION	777.79m	N 5609628.100 E	415175.200
	DRILLING CONTR	RACTOR Eastern Irrigation District	-						
	EXCAVATION ME	THOD Excavator							
Depth (m)	TOBMXS SOIL	Soil Description - native grasses	Sample Type	Sample Number	Moisture Content (%)	<ul> <li>MOISTURE CI</li> <li>⊢ PLASTIC - LIC</li> <li>■ SPT (N) Blows</li> <li>10 20</li> <li>100 200 3</li> <li>▲ POCKET PEN</li> </ul>	DNTENT QUID /300 mm 30 40 000 400 (kPa)	REMARKS	Standpipe/ Instrument Elevation (m)
-	2.2014 TILL CLAY TILL blocky, me oxidation s (mudstone SHALE (W soil, complete extremely 2.50m - t 3.00m - t	Induce grasses , silty, trace sand, trace gravel, moist, firm, dium to high plastic, brownish grey, some staining, suspect white sulphate inclusions, eresidual soil) //eathered), clay and silt, trace sand, residual etely weathered, brown, dry, high plastic, weak, oxide staining becomes completely weathered, damp becomes highly weathered, oxidized ironstone s<400mm End of Borehole @4.0 m		B1				1.2 m - Dry Density = 1616 kg/m3 Optimum Moisture = 22.4% 1.2 m - LL = 51% PL = 15.1% PI = 36%	777
-	Notes: Test pit ba	ckfilled with uncompacted cuttings			<u> </u>		: :	1	
16/11/202	2							Logged By: Reviewed By:	B.Tataryn T. Curtis

		MP		an <b>Englob</b>	e com	na	nν					TE	EST PIT No	: 22	TP4	-25
		NT			istrict	pu	עיי			-		c	Spake Lake Beserve			01
				2560 102 00	ISTICL		PR								aon	
			07/07/2022	1560-193-00	07/07/2	0000	PR					77 00	NE 1/4 32-1	9-10 10 F	11/000	 000
	DATE		07/07/2022		07/07/2	022	GR	OUND	ELEVA	ATION		//.88m	N_5009778.50	<u> </u>	414999.	900
	DRIL	LING CONTRAC	IOR	Eastern Irrigatio	n District											
	EXCA	AVATION METHO	D	Excavate	or	-		-	-				1			T
Depth (m)	SOIL SYMBOL		De	Soil scription		Sample Type	Sample Number	Moisture Content (%)	<ul> <li>MC</li> <li>⊢ PL</li> <li>■ SP</li> <li>10</li> <li>▲ PC</li> </ul>	DISTURE _ASTIC - PT (N) Blo 0 20 0 200 DCKET P	E CONTE LIQUID bws/300 n <u>30</u> 200 (kPa)	NT nm <u>40</u> 400	REMAR	٨S	Standpipe/ Instrument	Elevation (m)
- - - - - - - - - - - - -		CLAY TILL, sil plastic, browni oxide staining	ty, trace san sh grey, sus	d, trace gravel, dry, pect white sulphate	stiff, high inclusions,		B1						1 m - EC: 7.9 dS	/m		777-
- - - - - - - - - - - -		SHALE (Weat soil to complet extremely wea 1.80m - becc	residual plastic,	_	50						1 m - pH: 7.6 1 m - Dry Densit 1631 kg/m3 Optimum Moistu 20.7% 1 m - LL = 52%	y = re =		776-		
- - - - - - - - - - - - - - - - - - -	SHALE (Weathered), clay and silt, trace sand, resid soil to completely weathered, brown, dry, high plasti extremely weak, oxide staining, blocky 1.80m - becomes damp 2.20m - becomes moist, extremely weathered						62						PI = 37%	)		775-
F	· ·	-	End of Bo	prehole @3.5 m		_										1
-			End of Bo													
-																774-
-4																
-																
-																
-																
-																773-
—5 -																
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F																772-
<u> </u>										:	:	:	-			
		Notes:														
		Test pit backfil	led with unc	ompacted cuttings												
													Logged By:	<u> </u>	3.Tataryr	1
16/11/202	2												Reviewed By:		T. Curtis	

		MP		an <b>Englob</b>		na	nv			TE	EST PIT No :	227		26
						pa	· · y					- F.		VF I
	CLIEI	NT		Eastern Irrigation D	istrict		PR(	DJECI	Γ NAME		Snake Lake Reservoir	Expansio	n	
	PRO	JECT NUMBER		1560-193-00			PR(	DJECI	F LOCATION		NE 1/4 32-19-	16		
	DATE	STARTED	07/07/2022		07/07/2	022	GR	OUND	ELEVATION	777.76m	N 5609864.800	_ E _4	14895.1	100
	DRIL	LING CONTRAC	TOR	Eastern Irrigatio	n District									
	EXCA	AVATION METHO	D	Excavate	or									
Depth (m)	SOIL SYMBOL		Des	Soil cription		Sample Type	Sample Number	Moisture Content (%)	<ul> <li>MOISTURE C</li> <li>PLASTIC - LI</li> <li>SPT (N) Blow: 10 20</li> <li>100 200</li> <li>POCKET PEN</li> </ul>	ONTENT QUID \$/300 mm 30 40 300 400 ↓ (kPa)	REMARKS	3	Standpipe/ Instrument	Elevation (m)
- $        -$		TOPSOIL - na CLAY TILL, sil medium to hig sulphate inclus soll, brown, gr high plastic, bl 2.50m - becc ironstone conc 3.00m - becc	tive grasses ty, clayey, trac h plastic, grey sions, oxide s hered), clay a ey, some oxid locky omes complet retions <500r omes highly w End of Bor	ce gravel, damp to /ish brown, suspec taining, blocky Ind silt, trace sand, lation staining, dam ely weathered, larg nm /eathered ehole @3.2 m	residual p to moist,		B1 B2							777
	<u> </u>	Notes: Test pit backfil	led with unco	mpacted cuttings							Logged By:	B. <sup>-</sup>	 Tataryr	<u> </u>
16/11/202	2										Reviewed By:			

An Englobe company         CLIENT Eastern Irrigation District       PROJECT NAME Snake Lake Reservoir Expar         PROJECT NUMBER       1560-193-00       PROJECT LOCATION       NE 1/4 32-19-16         DATE STARTED       07/07/2022       COMPLETED       07/07/2022       GROUND ELEVATION       778.94m       N       5610082.700       E         DRILLING CONTRACTOR       Eastern Irrigation District       Excavator       F       Image: Content of the second	:TP427	ST PIT No: 22	TES								
CLIENT       Eastern Irrigation District       PROJECT NAME       Snake Lake Reservoir Expar         PROJECT NUMBER       1560-193-00       PROJECT LOCATION       NE 1/4 32-19-16         DATE STARTED       07/07/2022       COMPLETED       07/07/2022       GROUND ELEVATION       778.94m       N       5610082.700       E         DRILLING CONTRACTOR       Eastern Irrigation District       Excavator       F<	PAGE 1 0F 1						ny	Jar	an Englobe com		
PROJECT NUMBER       1560-193-00       PROJECT LOCATION       NE 1/4 32-19-16         DATE STARTED       07/07/2022       COMPLETED       07/07/2022       GROUND ELEVATION       778.94m       N       5610082.700       E         DRILLING CONTRACTOR       Eastern Irrigation District       Excavator	sion	nake Lake Reservoir Expans	Sn	E _	T NAM	OJEC.	PR		Eastern Irrigation District	LIENT	C
DATE STARTED       07/07/2022       COMPLETED       07/07/2022       GROUND ELEVATION       778.94m       N       5610082.700       E         DRILLING CONTRACTOR       Eastern Irrigation District         EXCAVATION METHOD       Excavator         Image: Contract of the second of		NE 1/4 32-19-16		ATION	T LOC	OJEC.	PR		CT NUMBER 1560-193-00	ROJECT NUMBER	P
DRILLING CONTRACTOR       Eastern Irrigation District         EXCAVATION METHOD       Excavator         ft       Soil       Moisture content         Description       add begin and b	414842.300	N_5610082.700 E_	778.94m	ATION	D ELEV	OUNE	GR	)22	STARTED 07/07/2022 COMPLETED 07/07/2	ATE STARTED	C
EXCAVATION METHOD       Excavator         fig.g.       IOGWAS       Soil       Iogwas       Iogw									NG CONTRACTOR Eastern Irrigation District	RILLING CONTRACTO	D
ft deg     Soil       Description     add L       edd L     add L       edd L     add L       edd L     add L       edd L     add L       bescription     add L       add L     add L       bescription     add L       color     add L       bescription     add L       bescription     add L       bescription     add L       bescription     add L       color     add L       color     add L       color     add L       color     add L									ATION METHOD Excavator	XCAVATION METHOD	E
CLAY TILL, gravely, some silt, some clay, dry, soft, medium plastic, reddish brown, highly oxidized, root hairs, suspect white sulphate inclusions	Standpipe/ Instrument Elevation	REMARKS	DNTENT QUID /300 mm 30 40 000 400 (kPa)	IOISTURE CC PLASTIC - LIC PT (N) Blows/ 10 20 3 00 200 3 OCKET PEN	● M H F ■ S 1 ▲ P	Moisture Content (%)	Sample Number	Sample Type	Soil Description	SOIL SYMBOL	Depth (m)
SHALE (Weathered), clayey, silty, residual soil, reddish       B1         Docky, oxide staining       B2         -2       B2         -2       B2         -3       B2         -3       B2         -3       B2         -4       End of Borehole @3.8 m	778- 777- 7776- 7776- 7776- 7776- 7774- 7774-						B1 B2		OPSOIL - native grasses         2LAY TILL, gravely, some silt, some clay, dry, soft, nedium plastic, reddish brown, highly oxidized, root nairs, suspect white sulphate inclusions         3HALE (Weathered), clayey, silty, residual soil, reddish brown, damp, medium to high plastic, extremely weak, plocky, oxide staining         .2.50m - becomes completely weathered, damp to moist         .3.00m - becomes less weathered         End of Borehole @3.8 m	<ul> <li>55 TOPSOIL - nati CLAY TILL, gra medium plastic, hairs, suspect w</li> <li>SHALE (Weath brown, damp, n</li> <li>blocky, oxide sta</li> <li>2.50m - becor</li> <li>3.00m - becor</li> </ul>	-1 -2 -3 -3 -3 -4 -4 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5
			<u> </u>	1 1							-
Notes: Test pit backfilled with uncompacted cuttings Logged By: Reviewed By:	3.Tataryn T. Curtis	_ogged By:E	L						lotes: Γest pit backfilled with uncompacted cuttings	Notes: Test pit backfille	6/11/0000

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		MPE)	an <b>Englobe</b>	e com	ca	ny						_	PAGE	1 0F <sup>·</sup>
	CLIEN	NT	Eastern Irrigation Dis	strict		PR0	OJECT	NAME			S	snake Lake Reservoir Exr	pansion	
	PROJ	IECT NUMBER	1560-193-00			PR	OJECT	LOCAT	ION			NE 1/4 32-19-16		
	DATE	STARTED 07/07/20	22 COMPLETED	07/07/20	022	 GR(	OUND	ELEVAT	ION	777	.46m	N 5610807.800 [	415035	.600
	DRILL	LING CONTRACTOR	Eastern Irrigatior	District										
	EXCA	VATION METHOD	Excavato	r										
Depth (m)	SOIL SYMBOL		Soil Description		Sample Type	Sample Number	Moisture Content (%)	<ul> <li>MOI</li> <li>⊢ PLA</li> <li>■ SPT 10 100</li> <li>POO</li> </ul>	STURE C STIC - L (N) Blow 20 200 :KET PEI	CONTENT IQUID rs/300 mm <u>30 40</u> 300 40 N (kPa)	- 1 ) 0	REMARKS	Standpipe/ Instrument	Elevation (m)
- $        -$		CLAY TILL,silt, sandy, g whitish brown, oxide sta soil, brownish grey, dry extremely weak, blocky 2.60m - becomes less 3.60m - becomes high End of	es ravely, dry, soft, mediun ining, trace root hairs t and clay, trace sand, r to damp, medium to hig weathered ly to completely weathe Borehole @3.8 m	residual h plastic,		B1						1 m - Dry Density = 1786 kg/m3 Optimum Moisture = 15.5%		777 7776 7775- 7774- 7773- 7772-
	<u>ı</u>	Notes: Test pit backfilled with u	ncompacted cuttings		<u> </u>		1	<u>.</u>						
16/11/202	2											Logged By: Reviewed By:	B.Tatary T. Curtis	n s

		PE	an <b>Englobe</b> cor	npa	iny				TE	EST PIT No :	22	2TP4 PAGE 1	29
	CLIENT		Eastern Irrigation District		PR	OJECI	NAME		:	Snake Lake Reservoir	Expans	sion	
	PROJECT NUME	ER	1560-193-00		PR	OJECI	LOCATI	ON		NE 1/4 32-19-	.16		
	DATE STARTED	07/08/2022	COMPLETED07/0	8/2022	GR		ELEVATI	ON	779.24n	n N 5610703.400	_ E _	414460.3	300
	DRILLING CONT	RACTOR	Eastern Irrigation District										
	EXCAVATION ME	THOD	Excavator										
Depth (m)	SOIL SYMBOL SOIL SYMBOL	Des	Soil cription	Sample Type	Sample Number	Moisture Content (%)	<ul> <li>MOIS</li> <li>H PLAS</li> <li>SPT ( 10 100 POCH</li> </ul>	STURE C STIC - LIC N) Blows 20 200 3 KET PEN	ONTENT QUID /300 mm 30 40 000 (kPa)	REMARK	3	Standpipe/ Instrument	Elevation (m)
- $        -$	SHALE (V gravel, re- high plast	- native grasses , silty, trace sand b high plastic, brow , trace organics Veathered), clay a sidual soil, greyish ic, extremely weal concretions (<400 becomes complet 1, thickly laminated End of Bor	, moist to very moist, soft, wn, suspect white sulphate ind silt, trace sand, trace h brown, moist, medium to k, blocky, oxide staining, so mm) ely weathered to highly d, cobble content increase ehole @4.2 m	me	B1					- 1 m - EC: 11.9 dS/ 1 m - SAR: 24.7 1 m - pH: 8.3 1 m - Dry Density : 1635 kg/m3 Optimum Moisture 21.6%	m = =		779-
16/11/202	Notes: Test pit ba	ackfilled with unco	mpacted cuttings							Logged By: Reviewed By:	E	<u>3.Tataryr</u> T. Curtis	<u>1</u>

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					e com	μa	шу									PAGE I	UFI
	CLIEI	NT		Eastern Irrigation Di	strict		PRO	OJECI	NAME				Snake Lake	e Reservoir	Expansi	on	
	PRO	IECT NUMBER		1560-193-00			PRO	DJECI	LOCAT	FION			NE	1/4 32-19-1	16		
	DATE	STARTED	07/08/2022	COMPLETED	07/08/2	022	GR	OUND	ELEVA	TION		781.38m	N_56	311058.300	_ E	414528.	700
	DRILI	LING CONTRACT	TOR	Eastern Irrigatio	n District												
	EXCA	VATION METHO	D	Excavato	or												
Depth (m)	SOIL SYMBOL		Des	Soil cription		Sample Type	Sample Number	Moisture Content (%)	<ul> <li>MO</li> <li>⊢ PL</li> <li>■ SP1 10</li> <li>100</li> <li>PO</li> </ul>	ISTUR ASTIC (N) B <u>20</u> 0 200 CKET I	E CON - LIQU lows/30 <u>30</u> 2 300 PEN (ki	TENT ID 0 mm <u>40</u> 2a)	-	REMARKS	5	Standpipe/ Instrument	Elevation (m)
		2.00m - becc SHALE (Weath soil, reddish br plastic, extrem 2.50m - oxidi	pmes damp hered), clay a rown, some o hered), clay a rown, some o hely weak, blo ized cobbles mes complet	In the grasses n), some silt, trace s n brown, trace root i and silt, trace sand, xidation staining, m worky, oxide staining (<500mm) for 1.0m tely to highly weather tely to highly weather telo @4.2 m	residual oist, high		B1										781– 780– 7779– 7778–
- - - -		Notes: Test pit backfill	led with unco	mpacted cuttings									Logged I	By:	B	Tataryr	- - -
16/11/202	2												Reviewe	a By:	]	. Curtis	

											ΤE	ST PIT No :	227	ГР4	31
		MPE	an <b>Englobe</b>	com	oa	ny							F	'AGE 1	I 0F 1
CLIENT		NT	Eastern Irrigation District			PROJECT NAME			S	Snake Lake Reservoir Expansion					
	PROJECT NUMBER         1560-193-00           DATE STARTED         07/08/2022         COMPLETED         07/08/2					PR	PROJECT LOCATION				NE 1/4 32-19-16				
								0.93m	m N 5611317.000 E 414704.900			900			
	DRIL	LING CONTRACTOR	Eastern Irrigation	District											
	EXCA	AVATION METHOD	Excavator												
Jepth (m)	SYMBOL		Soil	ole Type	e Number	Content (%)	MOISTURE CONTENT     H PLASTIC - LIQUID			T	REMARKS		Standpipe/ Instrument	vation (m)	
	SOIL	Description		Sam	Sample	Moisture	■ SP1 10 100 ▲ PO	F (N) Blows/300 mm 20 30 40 200 300 400 CKET PEN (kPa)		m <u>40</u> 00			Ele		
- - - - -	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	SAND, silty, trace clay, we compact, light brown 0.00m - increased clay	ell graded, fine grained content from 0.0m to 0.	, dry, 5m											-
1 - - - - - -		CLAY TILL, gravely, trace medium plastic, dark brov residual soil	sand, trace silt, dry, fir vn, oxide staining, som	m, e shale		B1						1 m - Sand = 69.99 Silt = 17.69 Clay = 12.5	% 6 ;%		
- - - - - - - - - -		2.00m - becomes moist				B2									779-
3 - - - - - - -		SHALE (Weathered), clay soil, orangish greyish bro oxide staining, extremely 3.50m - becomes comp	/ and silt, trace sand, re wn, damp to moist, higl weak letely weathered	esidual h plastic,											-
- -4 - - - -		End of E	Borehole @4.0 m		_										777-
- - 5 -															776-
															775-
		Notes:													<u> </u>
		Test pit backfilled with un	compacted cuttings									Logged By: Reviewed By:	<u>В.</u> т	<u>Tataryr</u> Curtis	<u>1</u>
16/11/202	2														

								TE	ST PIT No :	22TP4	132	
		an E	<b>nglobe</b> com	ра	ny					PAGE	1 0F 1	
	CLIENT Eastern Irrigation District PROJECT NUMBER 1560-193-00 DATE STARTED 07/08/2022 COMPLETED 07/08/2				PR	PROJECT NAME PROJECT LOCATION GROUND ELEVATION			Snake Lake Reservoir E	Expansion		
					PR				NE 1/4 32-19-1	16		
				2022	 GR				N 5611557.700	E 414384	E 414384.900	
	DRIL	LING CONTRACTOR Eas	tern Irrigation District									
	EXCA		Excavator									
	T									~ *	=	
Depth (m)	SOIL SYMBOL	Soil Description		Sample Type	Sample Number	Moisture Content (%	<ul> <li>MOISTURE C</li> <li>PLASTIC - LI</li> <li>SPT (N) Blows</li> <li>10 20</li> <li>100 200 3</li> <li>POCKET PEN</li> </ul>	ONTENT QUID 5/300 mm 30 40 300 400 ((kPa)	REMARKS	Standpipe	Elevation (m)	
		TOPSOIL - silty, clayey, native grass .0.06m - increased clay content fro SAND, silty, trace clay, well graded, loose, light brown CLAY TILL, gravely, silty, trace sanc plastic, light whitish brown, oxide sta	ses m 0.0m to 0.5m fine grained, dry, l, dry, firm, medium aining		B1						783-	
- - - - - - - - - - 2 -		1.90m - becomes damp			B2						782-	
- - - - - - - - - - - - 3		SHALE (Weathered), clay and silt, t soil, greyish brown, some oxidation plastic, extremely weak, suspect wh inclusions	race sand, residual staining, damp, high ite sulphate		В3							
- - - - -		3.50m - becomes completely to hi	ghly weathered		B4						- - 780- - - -	
-4	<u></u> -	End of Borehole @4	.0 m								24	
16/11/202	2	Notes: Test pit backfilled with uncompacted	l cuttings						Logged By: Reviewed By:	B.Tatary T. Curti	<u>′n</u> s	