

TESTHOLE FIELD LOG

66693
105-K-3,0

(to accompany Group # 203
BH-77-3 DD-158

HOLE NO. BH-77-3 DD-158
LOCATION Shrimp Lake
GR'D. ELEV.
G.W.L.
PURPOSE Foundations for tail
lines disjunct dam

CLIENT Keweenaw - CNRL W.O. NO. 6463-0
PROJECT Gsum joint ventures
SITE Faro, Yukon VANGORAA Creek Area
DRILLED BY A. S. Bilchen LOGGED BY M. M. Alletta DATE 20th July '78

DEPTH FT. 0	FIELD CLASSIFICATION		SAMPLE NO/DEPTH	SAMPLING & DRILLING DETAILS		
	GROUP	DESCRIPTION		TYPE & BLWS/FT.	RECOVERY	TESTS
		Olive green till:		N.B. Permafrost encoun-		
		Gravelly sand and silt with some clay.	1.1	tered in 55 samples #1		
		Plastic, well grad-	# 1.1	55, 8.5% recovery		
		d, semi-angular to semi-rounded particles. Dense	1.1	blows/1" => 18, 22, 20, 21 N=42		
		Olive green till:	# 6.5	55, 65% recovery		
		Rounded sand, silt and gravel, high water content or-	# 8.5	blows/1" => 3, 9, 12, 18 N=23		
		ganic material. Well sorted, semi-an-	# 11.5	55, 30% recovery		
		gular to semi-rounded particles. Are	# 13.5	blows/1" => 10, 9, 11, 12 N=20		
		of low density.	# 17.6	55, 70% recovery		
		Olive green till:	# 19.6	blows/1" => 9, 14, 15, 17 N=29		
		Sand silt and gravel with traces of clay. Seems less	# 22.9	55, 40% recovery		
		hardened, slightly plastic. Well sorted, semi-angular to semi-rounded	# 24.9	blows/1" => 3, 4, 6, 12 N not shown for only		
24.9		particles. Are		0.8' of penetration was in undisturbed soil		
		End of log at 24.4'		N.B. The rounded sand		
				particles are shown in the area where the hole is located.		



START 7:30 FINISH 17:30 DELAYS ETC.

TESTHOLE FIELD LOG

HOLE NO. BH-77-3
 LOCATION Shrimp Lake
 GR'D. ELEV. 12.9'
 G.W.L. Foundations for towers
 PURPOSE Rings disposal dam

CLIENT Kerr-ENRIL W.O. NO. 6163-0
 PROJECT G run joint ventura
 SITE Faro, Yukon

DRILLED BY A. Gilchrist LOGGED BY M. Mallette DATE July 21

DEPTH FT.	FIELD CLASSIFICATION		SAMPLE NO./DEPTH	SAMPLING & DRILLING DETAILS		
	GROUP	DESCRIPTION		TYPE & BLWS/FT	RECOVERY	TESTS
24.9		Olive green till: Gravelly and sandy silt with some clay. Well graded, slightly plastic, semi-angular to semi-rounded particles. Dense	30.4 # 6 32.4	SS, 85% recovery blows/1" = 1, 3, 17, 31 N = 30		
		Olive green till: Gravelly sand and silt with some clay	34.5 # 7 30.3	SS, 60% recovery blows/1" = 11, 18, 23, 33 N = 41		
37.9		Plastic, dense				
		Park green till: Gravelly and sandy silt with some clay. Plastic, very dense to dense, semi-angular to semi-rounded particles. Well graded.	39.5 # 8 41.5	SS, 75% recovery blows/1" = 8, 25, 32, 32 N = 57		
			43.9 # 9 45.7	SS, 70% recovery blows/1" = 11, 22, 33, 43 N = 55		
			49.1 # 10 51.1	SS, 95% recovery blows/1" = 17, 17, 29, 39 N = 46		
54						

START 7:30 FINISH 17:30 DELAYS ETC.

TESTHOLE FIELD LOG

HOLE NO. BH-77-3 DD-158
 LOCATION Shrimp Lake
 GR'D. ELEV. 12.9'
 G.W.L. foundations for the
 PURPOSE being disposal of

CLIENT Kerr - ENRL W.O. NO. 6263-0
 PROJECT Grum joint ventura
 SITE Faro, Yukon
 DRILLED BY A. G. Silchen LOGGED BY M. M. Alletto DATE July 21st

DEPTH FT.	FIELD CLASSIFICATION		SAMPLE NO./DEPTH	SAMPLING & DRILLING DETAILS		
	GROUP	DESCRIPTION		TYPE & BLWS/FT	RECOVERY	TESTS
54.7		Dark grey till: Gravelly and sandy silt with some clay. Very dense	54.7 # 10 56.0	55	90% recovery	blows/1" = 19, 38, 58, 84 N = 96
61.4		Olive green till: Gravelly, sandy and clayey silt. Very dense End of soft	59.1 # 10 61.4	55	100% recovery	blows/1" = 47, 58, 81, 81 N = 139
				N.B. The clay content is difficult to evaluate throughout the borehole. It could very well be higher than the estimated "some" listed in certain samples.		
				No boulders or cobbles encountered during drilling.		

START 7:30 FINISH 17:30 DELAYS ETC.

TESTHOLE FIELD LOG

HOLE NO. BH 17-3 DD-158
 LOCATION Shrimp Lake
 GR'D. ELEV. 13.9
 G.W.L. 13.9
 PURPOSE Foundations for 1
lings disposal

CLIENT Kahr-CNR W.O. NO. 6163-0
 PROJECT Grum joint venture
 SITE Faro, Yukon
 DRILLED BY A. Spilcham

LOGGED BY M. Mallette DATE July 77

DEPTH FT.	FIELD CLASSIFICATION		SAMPLE NO/DEPTH	SAMPLING & DRILLING DETAILS		
	GROUP	DESCRIPTION		TYPE & BLWS/FT	RECOVERY	TEST
61.4		Olive green till: Sandy, granular and clayey silt, Well graded, plastic, dense semi-irregular to se- mi-rounded particles. Average water content	13.9 # 13 65.7	SS, 60% recovery, blows/6" => 17, 16, 18, 26 N = 34		
71.4		Park grey till: Very dense	69.4 # 14 71.4	SS, 100% recovery, blows/6" => 19, 32, 44, 55 N = 76		
		End of hole at 71.4				N.B. No boulders or cobbles encountered.

START 7:30 FINISH 14:30 DELAYS ETC.

TESTHOLE FIELD LOG

091225

(to accompany GROUP "243")

HOLE NO. BH-77-5 DD-158

LOCATION S. Spring Lake

CLIENT Kerr - C. N.R. W.O. NO. 6163-0

PROJECT Green joint ventura

SITE Faro, Yukon

GR'D. ELEV.

G.W.L.

PURPOSE

Foundations for tailings disposal dam

DRILLED BY A. Spilchen

LOGGED BY M. Mallett

DATE July 26

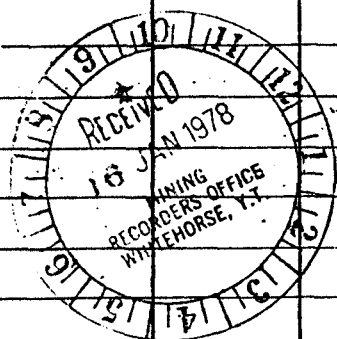
DEPTH FT.	FIELD CLASSIFICATION		SAMPLE NO/DEPTH	SAMPLING & DRILLING DETAILS		
	GROUP	DESCRIPTION		TYPE & BLWS/FT	RECOVERY	TESTS
0		Moss, organic material, volcanic ash, black earth	2.2			
		Olive green till; Gravelly sandy silt with some clay becoming a gravelly silt and sand with depth.	4.2	55	50% recovery	
			7.5			
4.5		End of shift	9.5			

blows/1" = 15, 21, 55, 60
N = 76

blows/6" = 25, 40, 45, 65
N = 85

N.B. The till is very dense, slight plasticity to none whatsoever. Well graded, angular to semi-rounded particles. No permeability observed in any sample taken up to date. (in BH-77-5)

The setup is situated on a stabilized portion of land so the till is at surface. The logs do not take into account the foot or so of section that build over away. No organic cover is indicated in the description although not present on site.



MONTREAL ENGINEERING CO. LTD.

DD-158

TESTHOLE FIELD LOG

HOLE NO. BH-77-5
 LOCATION Shrimp Lake
 GR'D. ELEV.
 G.W.L. 2.0'
 PURPOSE Foundations for tail disposal dam

CLIENT Kerr - CNRL W.O. NO. 6163-0

PROJECT Grum joint venture

SITE Faro, Yukon

DRILLED BY A. Spilchan

LOGGED BY M. Mallette

DATE July 27th 71

DEPTH FT. 9	FIELD CLASSIFICATION		SAMPLE NO/DEPTH	SAMPLING & DRILLING DETAILS		
	GROUP	DESCRIPTION		TYPE & BLWS/FT	RECOVERY	TESTS
9.5				N.B. RC drilled with wireline of BQ calibration ring was tried due to high density of till.		
		Brownish to olive green till;				
		Gravelly silt and sand. Very dense, well graded, low water content, angular to semi-rounded particles.	15.6	SS, 88% recovery		
			# 3	Blows/1" => 38, 60, 142, 75		
			15.3	with refusal after 0.2 penetration.		
				N = 202		
		A few cobbles and boulders	19.0	SS, no penetration after 100		
			19.1	blows, refusal on cobbles at 19.0'		
			# 5	RC #5, 19.1' to 24.1' recovered 1.2' of till, gravel and cobbles (24% recovery)		
			24.1			
			# 6	RC #6, 24.1' to 29.2' recovered 0.5' of gravel (10% recovery)		
			29.2			
			30.2			
			# 7	SS, 100% recovery		
			31.1	Blows/1" => 71, 202 with refusal after 0.4' of penetration.		
			34.1			
			# 8	SS, 90% recovery		
35.1		End of shift	35.1	blows/1" => 140, 215, 55 with no penetration.		
				N = 325		
				P.S. Traces of clay in sample #8, slightly plastic.		

7:00 17:00

TESTHOLE FIELD LOG

HOLE NO. BH 77-5 DD-158

LOCATION Shrimp Lake

CLIENT Kerr - CNRL W.O. NO. 6263-0

PROJECT Green joint venture

SITE Faro, Yukon

GR'D. ELEV. _____

G.W.L. 7.5'
Foundations for tail

PURPOSE disposal bars

DRILLED BY A. Spilchen

LOGGED BY M. Malotte

DATE July 28th

DEPTH FT. 35	FIELD CLASSIFICATION		SAMPLE NO/DEPTH	SAMPLING & DRILLING DETAILS		
	GROUP	DESCRIPTION		TYPE & BLWS/FT	RECOVERY	TESTS
35.1		Olive green till: Gravelly sand and silt. Very loose, well graded, angular to semi- rounded particles. Some cobbles and boulders	39.0	N.B. SS #9, some clay observed in till, slightly plastic.		
			# 9 39.5	SS, 100% recovery		
				Blows/6" => 78, 125 for 0.2 penetration with refusal on cobble or boulder.		
			43.8	SS, 0% recovery		
			# 10 45.0	Blows/6" => 118, 206, 75 for 0.2 penetration before refusal.		
			47.9	N = 324		
			# 11 49.9	SS, 100% recovery		
				Blows/6" => 40, 47, 71, 98 N = 118		
			53.7	SS, 10% recovery		
			# 12 55.7	Blows/6" => 88, 109, 139, 154 N = 248		
55.7		End of shift	55.7			
				P.S. SS #9 was only sample where clay was noted as being a constituent of the till.		

START 7:00 FINISH 17:00 DELAYS ETC. _____

MONTREAL ENGINEERING CO. LTD.

DD-158

TESTHOLE FIELD LOG

HOLE NO. BF 77-5
 LOCATION Shrimp Lake
 GR'D. ELEV. _____
 G.W.L. 6.8'
 PURPOSE Foundations for tail disposal dam

CLIENT Kerr-CNRL W.O. NO. 6163-0
 PROJECT Green joint venture
 SITE Faro, Yukon
 DRILLED BY A. Spilchen

LOGGED BY M. M. Alletta DATE July 29th

DEPTH FT.	FIELD CLASSIFICATION		SAMPLE NO/DEPTH	SAMPLING & DRILLING DETAILS		
	GROUP	DESCRIPTION		TYPE & BLWS/FT	RECOVERY	TESTS
55.7						
		Dark grey till: Silt and sand with some gravel	58.8			N.B. Some cobbles and boulders present in till
60.0		and some clay. Very dense well graded, angular to semi- rounded particles low water content, slightly elastic.	#13 60.0			55.75% recovery. Blows/6" = 7, 30, 43, 155 0.2' of penetration with refusal on cobbles or bould- ers N = 73
		End of hole at 60.0'				

START 17:00 FINISH 9:00 DELAYS ETC _____

TESTHOLE FIELD LOG

(to accompany Geop 2x3)
BH-77-6 DD-158

CLIENT Kerr-CONR W.O. NO. 6463-0
PROJECT Grum joint venture
SITE Fair, Yukon
DRILLED BY A. S. Silchen

HOLE NO. BH-77-6
LOCATION Shrimp Lake
GR'D. ELEV. _____
G.W.L. _____
PURPOSE Foundations for the large disposal d.
LOGGED BY M. M. Allette DATE July 29

DEPTH FT. 0	FIELD CLASSIFICATION		SAMPLE NO./DEPTH	SAMPLING & DRILLING DETAILS		
	GROUP	DESCRIPTION		TYPE & BLWS/FT	RECOVERY	TESTS
0.4		Mass, organic material, black earth	2.1	SS, 65% recovery		
2.7		Greenish to brown till:	4.1	Blows/6" => 3, 6, 9, 10		
		Gravelly and sandy silt. Well sorted, angular to semi-rounded particles, no schist fragments observed.	4.1			
		Compact to dense material.	7.8	SS, 65% recovery		
			9.8	Blows/6" => 7, 8, 11, 15		
			9.8			
			13.6	SS, 50% recovery		
			15.6	Blows/6" => 7, 16, 23, 42		
15.6		End of shift.	15.6	N = 39		
				N.B.		
				SS #1, low water content.		
				SS #2, gravelly sand and silt (till). High water content, slightly granular appearance.		
				SS #3, gravelly and sandy silt with some clay. Plastic, average water content.		
				P.S. Fill made by Caterpillar D6C at this site.		



TESTHOLE FIELD LOG

CLIENT Kerr-C.N.R. W.O. NO. 6163-0

PROJECT Grum joint venture

SITE Fno, Yukon

HOLE NO. B1-77-6

LOCATION Shrimp Lake

GR'D. ELEV. _____

G.W.L. _____

PURPOSE Foundations for tailings disposal dam

DRILLED BY A. Spilchen

LOGGED BY M. Mallitte

DATE July 30 '77

DEPTH FT. 15	FIELD CLASSIFICATION		SAMPLE NO./DEPTH	SAMPLING & DRILLING DETAILS		
	GROUP	DESCRIPTION		TYPE & BLWS./FT.	RECOVERY	TESTS
15.6		Greenish to Brown till.				N.B. Tried to cut best min. with 30 calibre wireline,
17.3		Bedrock.				poor recovery.
		Grey calcite phyllite	18.9			SS, 95% recovery
		black micaite	# 4			Blows/1" => 43, 38, 30, 77 with
		phyllite and green	20.8			refusal after 0.4' of penetration.
		chlorite phyllite	21.8			N = 68
		interbanded.				SS #5, 100% recovery
		Fine grained, massive, green, tender	# 6			Blows/1" => 111, 90
		not fully consolidated	23.2			N = 184
		dotted block.	# 7			RC #6, 9% recovery (0.3')
			27.2			RC #7, 15% recovery (0.3')
		The rock quality can be safely presumed as very poor.	# 8			RC #8, 3% recovery (0.1')
			30.7			RC #9, 11% recovery (0.1')
			31.6			
			30.1			SS, 65% recovery.
			# 10			Blows/1" => 26, 24, 38, 76
			31.1			N = 62
			38.8			SS, 65% recovery
			# 11			Blows/1" => 35, 51, 122, 75
40.5		End of shift	40.5			with refusal after 0.2' of penetration.
						N = 173
						P.S. SS #5, final problem sample discarded per field.
						Had saved in time by logging the blow counts.

START 7:00 FINISH 17:00 DELAYS ETC. _____

TESTHOLE FIELD LOG

HOLE NO. BH-77-6
 LOCATION Shrimp Lake
 GR'D. ELEV. 18.8'
 G.W.L. Foundations for tail
 PURPOSE disposal dam

CLIENT Kerr - CNRL W.O. NO. 6163-0
 PROJECT G run joint venture
 SITE Fair, Yukon

DRILLED BY A. Spilchen LOGGED BY M. Mallette DATE July 31, '71

DEPTH FT. 40	FIELD CLASSIFICATION		SAMPLE NO/DEPTH	SAMPLING & DRILLING DETAILS		
	GROUP	DESCRIPTION		TYPE & BLWS/FT	RECOVERY	TESTS
40.5		Grey calcite phyllite, black granite, phyllite with bands and veinlets of white quartz, Green chlorite phyllite in traces only.	43.6 # 13 1.59	SS#12, 100% recovery Blows/6" => 150 with re- sol after 0.3 penetration.		
		The phyllite phyllite is fine grained, rusty patches tender, not gully-consoli- dated in general.	# 14 47.9	RC#13, 10% recovery (0.1)		
			# 15 50.4	RC#14, 65% recovery (1.3)		
			# 16 52.4	RC#15, 52% recovery (1.1)		
			# 17 54.4	RC#16, 55% recovery (1.1)		
		Very poor rock quality!	# 18 56.5	RC#17, 20% recovery (0.4)		
			# 19 57.5	RC#18, 0% recovery		
			# 20 58.5	RC#19, 0% recovery		
		The calcite phyl- lite is distingui- shed by its bands of white calcite and by the presen- ce of fine disse- minated calcite.	# 21 59.2	SS, 88% recovery Blows/6" => 51, 115 with resol after 0.3 penetrati-		
			# 22 60.7	RC#20, 0% recovery		
			# 23 61.9	RC#21, 0% recovery		
			# 24 63.0	SS#22, 0% recovery Blows/6" => 25, 75 with re- sol after no penetration.		
			# 25 64.8	RC#22, 0% recovery		
			# 26 66.8	RC#23, 40% recovery (0.4)		
66.8		End of hole at 66.8'	66.8	RC#24, 0% recovery		
				RC#25, 44% recovery (0.4)		
				RC#26, 25% recovery (0.5)		
				N.B. Bedrock does not core well due to its size tenderness.		

TESTHOLE FIELD LOG

HOLE NO. BH-77-6
 LOCATION Shrimp Lake
 GRF ELEV.
 G.W.L. 18.8'
 PURPOSE Foundations for
 line disposal

CLIENT Kerr-C.N.R. W.O. NO. 6163-0
 PROJECT Grum joint venture
 SITE Faro, Yukon

DRILLED BY A. Spilchen LOGGED BY M. Mallette DATE July 31st

DEPTH FT.	FIELD CLASSIFICATION		SAMPLE NO/DEPTH	SAMPLING & DRILLING DETAILS		
	GROUP	DESCRIPTION		TYPE & BLWS/FT	RECOVERY	TESTS
		P.S.				
		The rock description is spot- ch at best due to the poor rate of recovery, it is impossible to establish the contacts between the different varieties of phyl- lite in question				N.B. Bedrock was evaluated at 17.3 feet since SS#4 and 5 rec- overed in all 2-9' of phyllite. The rock co- oling that followed in- volve a very poor recove- ry rate that could be Due to the excessive tenderness of the rock All the other SS that followed commencing at a depth of 32' 1" recovered 3.4 feet of phyllite. The rock core rec- overed was phyllite fr- top to bottom although many varieties were present: granite, cal- cite, quartz, sericite and chlorite phyllite. Since bedrock is located close by on the road cut leading to the borchhole in question it is assumed with a fair degree of ac- curacy that the esti- mated depth of 17.3 is correct.

START 7:00 FINISH 17:00 DELAYS ETC.