19745-40/MTP01C

Knight Piésold
CONSULTING ENGINEERS

TRANSMITTAL

Title
Mt. Polley
Test pits - logs
Photos,
May - Oct 4, 1995

Suite 1400 - 750 West Pender Street
Vancouver, B.C. V6C 2T8
Telephone: (604) 685-0543

TO: MEMPR

DATE: October 18, 1995 NO: 5/2471
FILE NO: 1625.01

RE: Mt.Polley Test Pits

ATTENTION: George Headley

WE ARE SENDING YOU ☐ Attached ☐ Under separate cover via _____
the following items:

☐ Print(s) ☐ Reproducibles ☐ Letter(s) ☐ Specifications ☐ Disk(s)
☐ Report(s) ☐ Shop Drawings ☐ Other _____

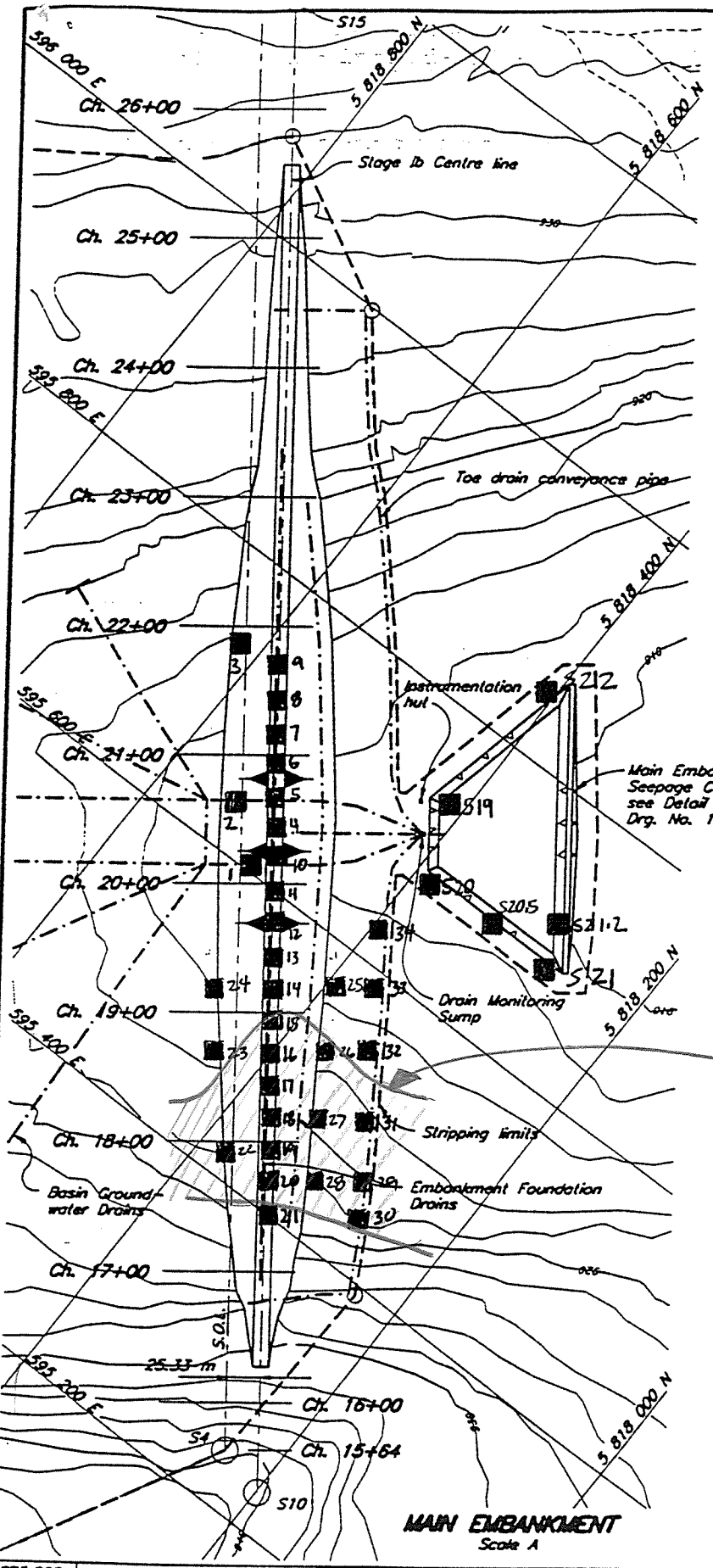
NO.	DESCRIPTION
1 copy each	Symbols and Terms Reference Page Main Embankment Test Pit logs (TP95ME-1 to TP95ME-34) Seepage Collection Pond Test Pit Logs (TPS19,20,20.5,21,21.2,22) Plan showing Test Pit Locations Photographs of test pits (Numbers on front of photos) MP000004

REMARKS: As requested. I will finish cross-sections and analysis and will get it to you ASAP.

Copy To: _____

Signed: _____

_____



■24 – Main Embankment Test Pits (TP95ME-24)

■S21 – Seepage Collection Pond Test Pits (TPS21)

1625.202	TAILINGS STORAGE FACILITY – FOUNDATION PREPARATION AND BASIN LINER – SECTIONS AND DETAILS						A
1625.214	TAILINGS STORAGE FACILITY – SEDIMENT CONTROL AND SEEPAGE COLLECTION – SECTIONS AND DETAILS						
DRG. NO.	DESCRIPTION	REV.	DATE	DESCRIPTION	APPROVED	REV.	
REFERENCE DRAWINGS		REVISIONS					

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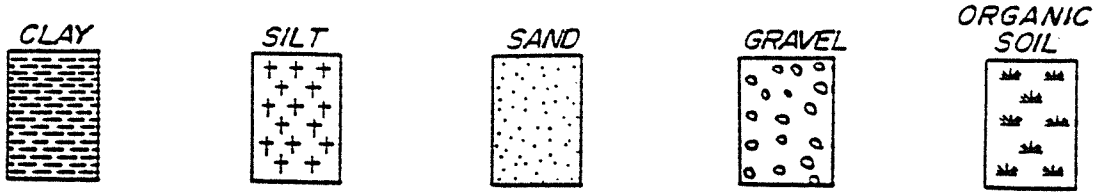
SYMBOLS AND TERMS USED IN THE REPORTS



The symbols may be combined to denote various soil combinations, the predominant soil being heavier.

RELATIVE PROPORTIONS

TERM	RANGE
Trace	0 - 10%
Some	10 - 20%
"y" or "ey"	20 - 35%
and	35 - 50%

ie. CLAY - silty, trace sand

means : Clay soil with 20% to 35% silt and 0% to 10% sand

CLASSIFICATION BY PARTICLE SIZE

Boulder		Over 8"
Cobble		3" - 8"
Gravel	-	
	Coarse	3/4" - 3"
	Fine	#4 - 3/4"
Sand	-	
	Coarse	#4 - #10
	Medium	#10 - #40
	Fine	#40 - #200
Silt		#200 - #0.002 mm
Clay		Finer than 0.002 mm

NOTE

Sieve sizes shown are U.S. standard

DENSITY OF SANDS AND GRAVELS

DESCRIPTIVE TERM	RELATIVE DENSITY	STANDARD PENETRATION TEST
Very loose	0 - 15%	0 - 4 Blows per foot
Loose	15 - 35%	4 - 10 Blows per foot
Medium dense	35 - 65%	10 - 30 Blows per foot
Dense	65 - 85%	30 - 50 Blows per foot
Very dense	85 - 100%	Over 50 Blows per foot

CONSISTENCY OF CLAYS AND SILTS

DESCRIPTIVE TERM	UNCONFINED COMPRESSIVE STRENGTH kPa	UNCONFINED COMPRESSIVE STRENGTH TSF	N VALUE STANDARD PENETRATION TEST	REMARKS
Very soft	< 25	< 0.25	Less than 2	- Can penetrate with fist
Soft	25 - 50	0.25 - 0.5	2 - 4	- Can indent with fist
Firm	50 - 100	0.5 - 1.0	4 - 8	- Can penetrate with thumb
Stiff	100 - 200	1.0 - 2.0	8 - 15	- Can indent with thumb
Very stiff	200 - 400	2.0 - 4.0	15 - 30	- Can indent with thumb-nail
Hard	> 400	> 4.0	Greater than 30	- Cannot indent with thumb-nail

NOTES

1. Relative density determined by standard laboratory tests
2. N Value - blows/ft. of a 140 lb. hammer falling 30 in. on a 2 in. O.D. split spoon
3. Unconfined compressive strength = 2 x Undrained shear strength, C_u

1625 c 1

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TEST PIT LOG

TEST PIT No. TP95ME-1
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Main Embankment
DATE May 15/95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE/MBS

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi 200 Excavator			TOPSOIL - Dark brown/black, moist to wet SILT and SAND with ORGANICS. Slight seep at contact with Till.
	0.5		GLACIAL TILL - moist, brown to grey brown, dense to very dense (increase with depth), overconsolidated SILTY SAND and GRAVEL, occasional COBBLE.
	1.0		
	1.5		
	2.0		
SHELBY TUBE SAMPLE TP95ME-1	2.5		GLACIOFLUVIAL/GLACIOLACUSTRINE SEDIMENTS - Alternating layers fine SAND/SILT/fine SAND/coarse SAND collected in shelby tube. Sand is running in excavation below glacial till. SILT layers show evidence of overconsolidation. Materials liquified while collecting shelby tube sample.
"Sand running" below till.	3.0		

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TEST PIT LOG

TEST PIT No. TP95ME-2
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Main Embankment
DATE May 15/95

PROJECT NO. 1625
GROUND EL. ____
LOGGED BY KOE/MEC

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi 200 Excavator			TOPSOIL – Dark brown / black, moist to wet SILTY SAND with ORGANICS. Slight seep at contact with till.
	0.5		GLACIAL TILL – moist, brown to grey-brown, medium dense to dense SILTY SAND and GRAVEL, occasional COBBLE.
	1.0		
	1.5		
	2.0		GLACIOFLUVIAL / GLACIOLACUSTRINE SEDIMENTS – Alternating layers of SILT / SAND / SILTY SAND. SILT sections overconsolidated, moist, with minor seep at contact with till. Medium dense to very dense. Shelby tube sample collected in dense SILT. (TP95ME-2A)
SHELBY TUBE SAMPLE TP95ME-2A	2.5		
– Grab sample TP95ME-2B	3.0		GLACIOFLUVIAL / GLACIOLACUSTRINE SEDIMENTS – Grey to blue grey SILT / SANDY to CLAYEY SILT, MOIST, Very dense, Overconsolidated. Grab sample collected (TP95ME-2B).
	3.5		

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TEST PIT LOG

TEST PIT No. TP95ME-3
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Main Embankment
DATE May 15/95

PROJECT NO. 1625
GROUND EL. _____
LOGGED BY KDE/MES

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi 200 Excavator			TOPSOIL - Brown, moist SILT and SAND with some ORGANICS.
	0.5		GLACIAL TILL - Moist, brown to grey-brown, dense to medium dense, (increase with depth) SILTY SAND and GRAVEL, occasional COBBLE.
NO SAMPLES.	1.0		
	1.5		
	2.0		
	2.5		
	3.0		GLACIOFLUVIAL / GLACIOLACUSTRINE SEDIMENTS - From 3.0 to 3.2 : moist, light brown, dense overconsolidated SILT. - From 3.2 to 3.4 : moist, grey brown SILT to CLAYEY SILT, very dense, overconsolidated.
	3.5		

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TEST PIT LOG

TEST PIT No. TP95ME-4
SHEET 1 of 1

PROJECT Mt Polley
LOCATION OF TEST PIT Main Embankment ℄
DATE Oct. 3/95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KOE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200LC Excavator			Topsoil - Disturbed dark brown to black, wet SILT and fine SAND with ORGANICS.
	1		Glacial Till - Greyish green brown SILTY SAND with some GRAVEL and COBBLES. Moist to wet. Medium dense to 1.25m, dense to 2.0m. Slight seep at bottom of till unit
Minor seep.	2		
	3		Glaciolacustrine / fluvial Sediments — Greyish green brown interbedded fine SAND and SILT. Silt is stiff, overconsolidated. Sand layers seep slightly, otherwise moist.
Minor seep in Sand layers.			
	4		Glaciolacustine / fluvial Sediments — Interbedded fine SAND and SILT, as above. Color is greyish blue and unit is stiffer, SILT layers clearly overconsolidated. Moist.
Vertical trench walls stable.	5		
	6		TD = 6.0m
	7		
Photos 1-4, 1-5			

CAD FILE: \CAD\VG\A2 Plot scale 1=1 STD.1

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CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TP95ME-5
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Main Embankment ℄
DATE Oct 3 /95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200LC Excavator	▽		Topsoil — Disturbed, dark brown to black, wet, SILT and fine SAND with ORGANICS
Minor seep from surface runoff at top of till.	1		Glacial Till — Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES. Moist to wet. Medium dense at top (to 1.2m), dense to very dense to 1.8m. Slight seep at top of Till.
Minor seep in occ. sand layer.	▽ 2 3		Glacio lacustrine / fluvial Sediments — Greenish grey brown interbedded SILT and fine SAND. Moist, stiff to very stiff. Silt is hard, overconsolidated! Occasional minor seep in sand layers.
Vertical trench walls stable.	▽ 4 5 6		Glacio lacustrine / fluvial Sediments — Interbedded SILT and fine SAND, as above. Color is greyish blue. Unit is very stiff to hard, silt clearly overconsolidated. Occasional minor seep in sand layers.
	7		TD = 6.5m
Photos 1-6, 1-7.			

CAD FILE: \CAD\FIG\A2 Plot scale 1=1 STD.1

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TEST PIT LOG

TEST PIT No. TP95ME-6
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Main Embankment ℄
DATE Oct. 3/95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200LC Excavator			Topsoil - Disturbed dark brown to black wet SILT and fine SAND with ORGANICS.
	1		Glacial Till - Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES. moist to wet, medium dense to dense (at 2.0m). Medium loose at top of till.
Minor inflow of water and sand, "running sand."	2		Glaciofluvial Sediments - SILTY SAND, moist brown, very stiff, overconsolidated.
	3		Glaciofluvial Sediments - Brown, fine to medium grained SAND. Wet to moist, minor amount of "running sand".
	4		Glaciofluvial Sediments - Bluish grey SILT and fine SAND. Moist, very stiff to hard, overconsolidated. Occasional SANDY layer.
Vertical trench walls stable.	5		
	6		Trace gravel at bottom of trench.
			TD = 6.0m
	7		

Photos 1-8, 1-9, 1-10.

CAD FILE: \CAD\FIG\A2 Plot scale 1=1 STD.1

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TEST PIT LOG

TEST PIT No. TP95ME-7
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Main Embankment ℄
DATE Oct. 3/95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200LC Excavator	0		Topsoil - Disturbed dark brown to black wet SILT and fine SAND with ORGANICS.
	1		Glacial Till - Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES, moist, medium loose to 1m, dense to very dense to 2.2m. Till is overconsolidated.
	2		
Slight seep.	▽		Glaciofluvial Sediments - Greyish blue SILTY fine SAND with trace GRAVEL. Stiff to hard, overconsolidated, moist.
	3		
	4		Glaciolacustrine / fluvial Sediments - Greyish brown very stiff to hard SILT with occasional layer of SILTY fine SAND, trace CLAY. Silt and clay are overconsolidated.
Vertical trench walls stable	5		Slight seep at top of unit (2.7m). TD = 5.7m
	6		
	7		
No photo.			

CAD FILE: \CAD\FIG\A2 Plot scale 1=1 STD.1

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CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TP95ME-8
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Main Embankment ℄
DATE Oct. 3/95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200LC Excavator	0		Topsoil – Disturbed dark brown to black, wet SILT and fine SAND with ORGANICS.
	1		Glacial Till – Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES. Moist, medium loose to 1.2m, dense to very dense to 2.5m. Till is overconsolidated.
	2		
Slight Seep. ▽	3		Glaciofluvial Sediments – Greyish blue SILTY fine SAND with trace GRAVEL stiff to hard, overconsolidated, moist.
Vertical trench walls stable.	4		Glaciolacustrine / fluvial Sediments – Greyish brown very stiff to hard SILT with occasional layer of SILTY fine SAND, trace CLAY. Silt and clay are overconsolidated.
	5		TD = 5.8m
	6		
	7		

Photo 1-11, 1-12

CAD FILE: \CAD\FIG\42 Plot scale 1=1 SIZE 1

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TEST PIT LOG

TEST PIT No. TP95ME-9
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Main Embankment ℄
DATE Oct. 4/95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200LC Excavator			Topsoil - Disturbed dark brown to black wet SILT and fine SAND with ORGANICS.
	1		Glacial Till - Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES. Moist to wet, medium dense. Dense at bottom of unit.
	2		Glacial Till - As above, with some GRAVEL and COBBLES. Hard, very dense, moist, Over consolidated.
	3		
	4		Glaciolacustrine / fluvial Sediments - Greyish blue, very stiff to hard, moist SILT and fine SAND with trace GRAVEL / COBBLES. No seeps evident Over consolidated.
No seeps evident.			
Vertical trench walls stable.	5		
			TD = 6.0 m
	6		
	7		
Photo 1-15			

CAD FILE: \CAD\FIG\42 Plot scale 1=1 STD.1

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TEST PIT LOG

TEST PIT No. TP95ME-10
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Main Embankment ℄
DATE Oct. 4 /95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200 LC Excavator			Topsoil - Disturbed dark brown to black, wet SILT and fine SAND with ORGANICS.
	1		Glacial Till - Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES. Moist to wet, medium loose to dense. Slight seep at 1.5 m
	2		Glacial Till - As above, with mottled grey blue SANDY planes. Very dense.
Occ. minor seep on sandy horizons.	3		Glaciolacustrine / fluvial Sediments - Grey brown interlayed SILT and SANDY SILT with trace CLAY. SILT layers are medium brown color and SAND is grey brown. Unit is moist, stiff, overconsolidated. Occasional minor seep on sandy horizons.
	4		
	5		
Vertical trench walls stable.	6		TD = 6.0m
	7		
Photos 1-16, 1-17, 1-18, 1-19.			

CAD FILE: \CAD\FIG\X2 Plot scale 1=1 STD.1

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TEST PIT LOG

TEST PIT No. TP95ME-11
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Main Embankment ℄
DATE Oct. 4/95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KOE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200LC Excavator			Topsoil - Disturbed dark brown moist to wet SILT and fine SAND with ORGANICS.
	1		Glacial Till - Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES - Moist to wet, medium loose.
Slight seepat top and bottom of dense till.	2		Glacial Till - As above, with blue mottled appearance. Blue mottles are SANDY horizons. Dense to very dense, moist. Overconsolidated. Slight seep at top and bottom of unit.
	3		Glaciolacustrine/fluvial Sediments - Greyish blue SILT, SILTY SAND. Moist, stiff to very stiff. Overconsolidated. Occasional wet sand seam to 10 cm.
	4		Glaciolacustrine/fluvial Sediments - Brownish green interlayered SILT and fine SAND. Silt layers are muddy brown color, overconsolidated. Sandy layers are green brown color. Layers typically to 5mm. Moist (drier than upper unit), very stiff.
Vertical trench walls stable.	5		
	6		TD=6.2m
	7		

Photo 1-20.

CAD FILE: \CAD\PGV\42 Plot scale 1=1 STD.1

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TEST PIT LOG

TEST PIT No. TP95ME-12
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Main Embankment ℄
DATE Oct. 4/95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200LC Excavator.	1		Topsoil - Disturbed topsoil and roots for nearby burn pile. Topsoil not 1.6m thick originally.
	2		Glacial Till - Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES. Moist, dense to approx. 2.5m and very dense to 4.1m. Slight seep at bottom of till unit.
Slight seep at bottom of till. ▽	3		
	4		
	5		Glaciolacustrine/fluvial Sediments - Greyish blue to green brown SILT and SILTY SAND. Fine, brown muddy SILT layers typically 2cm thick; SILTY SAND layers 2 to 3mm. Moist, very stiff to hard. Over-consolidated.
Vertical trench walls stable.	6		
	7		TD = 6.3m
Photo 1-21			

CAD FILE: \CAD\FIG\A2 Plot scale 1=1 STD.1

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TEST PIT LOG

TEST PIT No. TP.95ME-13
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Main Embankment ℄
DATE Oct. 4/95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200LC Excavator			Topsoil - Disturbed, dark brown, moist to wet SILT and fine SAND with ORGANICS.
	1		Glacial Till - Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES. Moist, very dense, overconsolidated.
	2		
	3		
	4		Glaciolacustrine / fluvial Sediments - Grey brown, moist SILT and SANDY SILT. Medium stiff to stiff, overconsolidated.
			As above, but grey blue color, very stiff to hard. Moist, overconsolidated.
No seeps evident.	5		As above, Sediments with more pronounced interlayering of SILT and SANDY SILT. Very stiff to hard, moist, overconsolidated.
Vertical trench walls stable.	6		TD = 6.4m
	7		

Photo 1-22.

CAD FILE: \CAD\FIG\A2 Plot scale 1=1 STD.1

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CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TP95ME-14
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Main Embankment ℄
DATE Oct. 4/95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200LC Excavator.			Topsoil - Disturbed dark brown, moist to wet SILT and fine SAND with ORGANICS.
Slight seep at bottom of till.	▽		Glacial Till - Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES. moist to wet, medium dense. Seep at bottom of till.
	2		Glacial Till - As above, with blue mottled appearance. Blue grey mottles are sandy horizons. Very dense, moist, overconsolidated. Mottled sandy horizons are thin (to 2mm), wet.
	3		
	4		Glacial Till - As above, bluish grey color, medium dense, moist to wet.
	5		Glaciolacustrine / fluvial Sediments - Light brown, moist SILT and SANDY SILT. Stiff to very stiff (almost hard). Mottled appearance near bottom.
	6		TD = 6.2m
	7		

Photo 1-23

CAD FILE: \CAD\PG\A2 Plot scale 1=1 STD.1

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TP95ME-15
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Main Embankment ℄
DATE Oct. 4 /95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200LC Excavator			Topsoil - Disturbed dark brown, moist to wet SILT and fine SAND with ORGANICS.
	1		Glacial Till - Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES. Medium loose, moist to wet.
	2		Glacial Till - As above, with bluish grey mottled appearance. Mottled horizons are wet SAND, to 2mm. Very dense, moist overall.
	3		Glaciofluvial / lacustrine Sediments - Highly irregular, intermixed layers of light brown fine to medium SAND and SILT. Unit is moist, stiff to very stiff. Silt is overconsolidated. Seep at top of unit.
	4		
Some "running sand"	5		Glaciofluvial / lacustrine Sediments - As above, with more SAND (SILTY SAND). Sand is loose, some pockets are making water and running. Seep at top of unit.
	6		TD = 6.1m
	7		
Photo 1-24, 1-25.			

CAD FILE: \CAD\FIG\A2 Plot scale 1=1 STD.1

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TP95ME-16
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Main Embankment ℄
DATE Oct. 4/95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC 200 LC Excavator			Topsoil - Disturbed dark brown, moist to wet SILT and fine SAND with ORGANICS.
	1		Glacial Till - Greenish grey brown SILTY SAND with trace GRAVEL and COBBLES. Medium loose, moist to wet.
	2		Glacial Till - As above, with bluish grey mottled appearance. Mottled horizons are wet SAND, to 2mm. Moist, dense to very dense. Seep at base of till.
Seep <1gpm.	▽		
"Running Sand"	3		Glaciofluvial / lacustrine Sediments - Brown, medium grained, loose, wet SAND. Seep at 2.7m, with inflow <1gpm and running SAND.
	4		
	5		Glaciofluvial / lacustrine Sediments - Interlayered, brown moist SILTY SAND, Stiff, overconsolidated. Occ. Sand layer loose and seeping
	▽		
Total Inflow 1-2 gpm.	6		
	7		Glaciofluvial / lacustrine Sediments - As above, more regularly layered SILT and SANDY SILT. Moist, stiff.
			TD = 7.0m
Photo 2-2, 2-3, 2-4.			

CAD FILE: \CAD\FIG\A2 PRT scale 1=1 STD.1

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TEST PIT LOG

TEST PIT No. TP95ME-1
SHEET 1 of 1

PROJECT MH Polley
LOCATION OF TEST PIT Main Embankment ℄
DATE Oct. 4/95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200LC Excavator Till quite soft.	0		Topsoil - Disturbed dark brown, moist to wet SILT and fine SAND with ORGANICS.
	1		Glacial Till - Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES. Moist to wet, medium loose/dense to 1.5m. Dense to 2.5m. Slight seep at 1.5m
	2		
"Running Sand"	3		Glaciolacustrine/fluvial Sediments - Interlayered light brown, stiff, moist SILT and SILTY SAND.
			Glaciofluvial/lacustrine Sediments - Brown, loose, wet sand. Seep at top, running.
"Running Sand", est. water inflow, approx. 2gpm	4		Glaciofluvial Sediments - Brown, wet, SILTY SAND and GRAVEL.
			Glaciolacustrine/fluvial Sediments - Brown, irregular layers of medium grained, loose wet SAND and some SILT. Water seeping in sand, which is "running".
Trench collapsing in Sand layers.	5		TD = 5.7m
	6		
	7		
Photo 2-5, 2-6.			

CAD FILE: \CAD\FIG\42 Plot scale 1=1 STD.1

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TP95ME-12
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Main Embankment ℄
DATE Oct 4 /95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC 200 LC Excavator	0		Topsoil - Disturbed, dark brown, moist to wet SILT and fine SAND with ORGANICS.
Till quite wet, loose.	1		Glacial Till - Greenish grey brown SILTY SAND with trace GRAVEL and COBBLES. Moist to wet, medium loose / firm to 1.5m
Seep at base of till.	2		Glacial Till - As above, with bluish grey mottled appearance. Moist to wet, medium loose to firm. Seep at base of till
"Running Sand"	3		Glaciofluvial Sediments - Light brown, wet, fine to medium SAND with occasional irregular layers of stiff, overconsolidated SILT. SAND is loose, entire unit is seeping, with "running sand". Trench sides collapsing
Trench walls collapsing.	4		
	5		
	6		TD = 6.0m
	7		

Photo 2-7.

CAD FILE: \CAD\FIG\A2 Plot scale 1=1 STD.1

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TP95ME-19
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Main Embankment E
DATE Oct 4/95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200LC Excavator	0		Topsoil - Dark brown, moist to wet SILT and fine SAND with ORGANICS.
	1		Glacial Till - Greenish grey brown, SILTY SAND with trace to some GRAVEL and COBBLES. Wet, medium dense/loose.
	2		Slightly drier, medium dense at 2.2m
▽ Seeping throughout SAND. "Running SAND"	3		Glaciofluvial Sediments - Brown, fine to medium SAND with occasional thin layer (to 2.5 cm) of stiff, over-consolidated SILT. Wet, loose, seeping throughout unit.
	4		
Trench collapsed.	5		Glaciolacustrine Sediments - Light brown, moist, stiff to very stiff (almost hard) SILT. TD = 5.4m
	6		
	7		

No photo

CAD FILE: \CAD\FIG\A2 Plot scale 1=1 STD.1

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TPASME-20
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Main Embankment ℄
DATE Oct. 4 /95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200LC Excavator			Topsoil - Dark Brown, moist to wet SILT and fine SAND with ORGANICS.
	1		Glacial Till - Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES. Medium dense, moist.
Random Seeps in Sand	2		Glaciofluvial Sediments - Brown, medium grained loose wet SAND. Seep at bottom, also randomly within unit.
	3		Glaciolacustrine Sediments - Light brown, moist very stiff Overconsolidated SILT with occasional SAND seam
- Strong seep at base of gravelly unit.	4		Glaciofluvial Sediments - Wet, brown SANDY GRAVEL and COBBLES, Very dense, Seep at base of unit 2-3 gpm.
- very hard to dig in red till	5		Glacial Till - Red brown, very dense, moist SILTY SAND with some GRAVEL and COBBLES, Overconsolidated. Basal Till? TD = 5.7m
	6		
	7		
Photos 2-8, 2-9.			

CAD FILE: \CAD\TCC\A2 Plot scale 1=1 STD.1

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TP95ME-21
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Main Embankment ℄
DATE Oct. 4/95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200LC Excavator	0		Topsoil – Dark brown, moist SILT and fine SAND with ORGANICS.
	1		Glacial Till – Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES. Medium dense to dense, moist to wet. Seep at bottom.
▽	2		Glacial Till – Intermixed brown till and reddish Basal till. Moist, very dense.
Difficult to dig in.	3		Glacial Till – Reddish brown SAND and SILT with some GRAVEL and COBBLES. Moist to wet, very dense, SANDY till TD = 3.7m
	4		
	5		
	6		
	7		
Photo 2-10			

CAD FILE: \CAD\TG\A2 Plot scale 1=1 STD.1

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TP95ME-2
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT U/S Toe
DATE Oct. 4/95 Main Embankment

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC 200LC Excavator	0		Topsoil - Disturbed dark brown SILT and fine SAND with ORGANICS.
	1		Glacial Till - Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES - Medium dense, moist to wet.
Seep in sand.	2		Glaciofluvial / lacustrine Sediments - Brown, fine to medium, loose, wet SAND with occasional thin layer (to 1 cm) of light brown, v. stiff, overconsolidated SILT.
	3		Water seeping in SAND unit.
Hole collapsed	4		TD = 4.6m
	5		
	6		
	7		

No photo.

CAD FILE: \CAD\FIG\A2 Plot scale 1=1 STD.1

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TP95ME-2
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT U/S Toe Main Embankment
DATE Oct. 4/95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KOE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC 200LC Excavator			Topsoil - Brown, moist to wet SILT and fine SAND with ORGANICS.
Slight Seep at base of till.	1		Glacial Till - Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES. Medium dense, moist to wet. Slight Seep
	2		Glacial Till - As above with bluish grey mottled horizons. Very dense, moist to wet (esp. on mottling).
	3		Glacial Till - Content as above, greyish blue color, very dense, moist.
	4		Glaciofluvial / Glaciolacustrine Sediments - Brown, medium grained wet SAND with occasional Thin, very stiff overconsolidated SILT layer. Random seeps in wet SAND.
Vertical trench walls stable.	5		
	6		Glaciolacustrine Sediments - Light brown, moist, very stiff SILT with occasional SAND layer. TD = 6.3m
	7		
Photo 2-10			

CAD FILE: \CAD\FIG\A2 Plot scale 1=1 STD.1

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TP95ME-24
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT U/S Toe Main Embankment
DATE Oct 4/95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200LC Excavator.	1		Glacial Till - Greenish grey brown, SILTY SAND with trace to some GRAVEL AND COBBLES. Medium dense, moist to wet.
▽ Minor seep at base of looser till unit.	2		Glacial Till - As above, with bluish grey mottled horizons; moist, dense to very dense.
	3		
	4		
			Glacial Till - As above, bluish grey color, moist, very dense.
	5		Glaciolacustrine/Fluvial Sediments - Brown SILTY SAND. Very stiff, moist.
Vertical trench walls stable.	6		Glaciolacustrine/fluvial Sediments - Greyish Brown SILT and SILTY SAND, wet to moist, stiff to very stiff. TD = 6.3m.
	7		
Phot 2-12.			

CAD FILE: LOG\PG\12 Plot scale 1:1 STD.1

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TP95ME-25
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT D/S Toe
DATE Oct 5/95 Stage 1b Main Embankment

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200LC Excavator Slight seep at base of till.	▽		Topsoil - Dark brown, disturbed, wet to moist SILT and fine SAND with ORGANICS.
	1		Glacial Till - Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES. Dense to medium dense, moist, slight seep at base of unit
	2		Glacial Till - As above, but very dense.
	3		Glacial Till - As above, but bluish grey color, moist, very dense.
	4		Glaciolacustrine / fluvial Sediments - Light brown moist, stiff SILT. Overconsolidated. Occasional layer of loose wet fine SAND. (NOT running).
	5		TD = 5.9 m
	6		
	7		

Photo 2-13.

CAD FILE: \CAD\PG\A2 Plot scale 1=1 STD.1

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TP95ME-Z6
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT D/S Toe
DATE Oct. 5/95 Stage 1b Main Embankment

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200LC Excavator	0		Topsoil - Disturbed dark brown, wet to moist SILT and fine SAND with ORGANICS.
	1		Glacial Till - Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES. Medium dense / loose, moist to wet.
	2		Glacial Till - As above, except drier (moist) and dense.
	3		
	4		Glaciolacustrine / fluvial Sediments - Light brown, wet, fine to medium grained interlayered SAND and SANDY SILT. Occasional minor seepin sand (≈5m). Wet, loose but not running; although sand is collapsing.
Slight seep in SAND unit.	▽ 5		
	6		TD = 6.4m
	7		
No photo.			

CAD FILE: \CAD\FIG\A2 Plot scale 1=1 STD.1

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TP95ME-27
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT DK Tor
DATE Oct. 5/95 Stage 16 Main Embankment

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200 LC Excavator			Topsoil - Disturbed dark brown, moist to wet SILT and fine SAND with ORGANICS.
	1		Glacial Till - Greenish grey brown with greyish mottled horizons. SILTY SAND with trace to some GRAVEL and COBBLES. Medium dense, moist.
	2		Glacial Till - As above, but moist to wet, medium dense to loose.
Seepin gravelly unit	3 ▽		Glaciofluvial Sediments - Brown, wet SAND with some GRAVEL. Medium dense to loose, seepin gravelly sections.
"Running Sand" Not as much water as embankment centre line.	4		Glaciofluvial Sediments - Medium grained, loose, wet brown SAND. Water seeping in, causing SAND to collapse and "run". Sand collapsing.
Trench collapsing	5		
	6		Glaciolacustrine Sediments - Light brown, moist, stiff interlayered SILT and SANDY SILT.
	7		TD = 6.0m
Photos 2-16, 2-17, 2-18.			

CAD FILE: \CAD\PG\A2 Plot scale 1=1 STD.1

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TP95ME-28
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Dis top
DATE Oct 5/95
Stage 1b Main Embankment

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200LC Excavator			Topsoil - Disturbed dark brown, moist lower SILT and fine SAND with ORGANICS.
	1		Glacial Till - Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES. Moist, medium dense.
	2		Glacial Till - As above, with blue-grey mottled horizons (sandy coatings on rocks). Moist, very dense.
	3		
Seep in sand.	▽		Glaciofluvial / lacustrine Sediments - Brown / greenish grey wet SAND with irregular patches of Brown and red glacial till. Rusty color.
	4		Glaciolacustrine / Fluvial Sediments - Light brown, moist, very stiff to hard SILT and fine SAND.
Vertical trench walls stable.	5		Glaciolacustrine / Fluvial Sediments - Light brown SILT and fine SAND with some GRAVEL and COBBLES. Moist, very stiff to hard
			TD = 5.5 m
	6		
	7		
photo 2-19.			

CAD FILE: \CAD\PDG\A2 Plot scale 1=1 STD.1

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TP95ME-20
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT D/S toe
DATE Oct 5/95 Final Main Embankment

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200LC Excavator			Topsoil - Dark brown, moist to wet SILT and fine SAND with ORGANICS.
	1		Glacial Till - Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES. Medium dense, moist.
	2		Glacial Till: As above, with blue-grey mottling. Moist, very dense (overconsolidated).
			Glaciofluvial Sediments - Brown, wet, medium to coarse medium grained SAND.
Strong seep in coarse sediments.	▽ 3		Glaciofluvial Sediments - Brown, wet SAND, GRAVEL and COBBLES. Dense to very dense. Strong seep, approx. 2-3 gpm. Coarse material extends to approx 3.5m. Below 3.5m, SAND with some SILT, GRAVEL.
	4		
	5		
	6		
	▽		
			Brown, moist SILTY SAND and GRAVEL. Dense to very dense. Probably glacial till
	7		TD = 6.7m
photo 2-20.			

CAD FILE: \CAD\PCL\A2 Plot scale 1=1 STD.1

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TP95ME-3C
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT D/S Toe
DATE Final Main Embankment

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200LC Excavator	0		Topsoil - Dark brown, moist, loose SILT and fine SAND with ORGANICS. Lots of roots.
	1		Glacial Till - Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES. Moist, medium dense
	2		Glacial Till - As above, but moist, dense to very dense. Occasional SAND LENS.
	3		
	4		Glaciofluvial Sediments - Green brown SILTY SAND with trace GRAVEL. Wet, medium dense to loose.
Trench staying open.	5		Glaciofluvial Sediments - Brown, loose wet SAND with water seeping, minor "running SAND" TD = 5.9 m
	6		
	7		
Photo 2-21			

CAD FILE: \CAD\VG\A2 Plot scale 1=1 STD.1

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TP95MT-31
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT D/S Tor
DATE Oct. 5/95 Final Main Embankment

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC 200LC Excavator	0		Topsoil - Black, wet SILT and fine SAND with lots of ORGANICS (peat).
	1		Glacial Till - Bluish grey SILTY SAND with trace to some GRAVEL and COBBLES. Wet, firm (color due to overlying organics).
	2		Glacial Till - Greenish grey brown. Composition as above. Medium dense to dense, moist to wet. One boulder 1.5m diameter.
	3		
Water seeping in Sand horizon. ▽	4		Glaciofluvial Sediments - Brown, medium loose, wet SAND. Water seeping in, Sand collapsing badly.
	5		Glaciofluvial Sediments - Brown, loose wet SAND with occasional lager (1 to 2cm) of overconsolidated SILT.
	6		Glaciolacustrine Sediments - Interlayered light brown fine SILTY SAND and muddy brown overconsolidated SILT. Wet, stiff.
	7		TD = 6.2m
Photo 2-22			

CAD FILE: \CAD\PG\A2 Plot scale 1=1 STD.1

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TPASME-32
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT D/S Toe
DATE Oct 5/95 Final Main Embankment

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC 200LC Excavator			Topsoil - Dark brown, moist to wet SILT and fine SAND with ORGANICS.
Slight Seep in till	▽		Glacial Till - Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES. Moist to wet, medium dense to dense (at bottom). Slight seep in till approx 1.5m (damp)
	4		Glacial Till - As above, blue grey color, SANDY, wet, medium dense.
Seep in sand.	▽ 6		Glacial Till - Greenish grey brown color, as above. SILTY SAND with trace GRAVEL, over-consolidated. (may be sediments), moist to wet, dense. Slight seep.
			Glaciolacustrine Sediments - Interlayered light brown fine SILTY SAND and muddy brown overconsolidated SILT. Moist, stiff. TD = 6.2m
Photo 2-23			

CAD FILE: \CAD\PG\A2 Plot scale 1=1 STD.1

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TP95ME-3
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT D/S Toe
DATE Oct 5/95 Final Main Embankment

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200LC Excavator Minor seep at base of looser till.	0		Topsoil - Disturbed dark brown moist to wet SILT and fine SAND with ORGANICS
	1		Glacial Till - Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES. Moist, dense. Minor seep.
	2		Glacial Till - As above. Moist, very dense.
	3		
	4		Glaciolacustrine / fluvial Sediments - Interlayered, brown, moist SILT and SILTY SAND. Very stiff.
	5		Glaciofluvial / lacustrine Sediments - Brown, wet, medium grained SAND with trace SILT. Medium dense to loose. Water held in sand, not seeping or running.
	6		Glaciolacustrine Sediments - Light brown, moist SILT and SILTY SAND. Stiff / very stiff. TD = 6.3m
	7		

Photo 2-24

CAD FILE: \CAD\TP\A2 Plot scale 1=1 STD.1

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TP95ME-3c
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT D/S Toe
DATE Oct 5/95 Final Main Embankment

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200LC Excavator	0		Topsoil- Disturbed brown / black, moist to wet SILT and fine SAND with ORGANICS.
	1		Glacial Till- Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES. Moist to wet, medium dense to dense at bottom.
	2		Glacial Till- As above, with bluish grey mottled horizons, which are sandy coatings. Moist to wet, very dense.
	3		
Slight Seep	▽		Glacial Till- as above, bluish grey with some COBBLES and GRAVEL. Moist, very dense.
	4		Glaciofluvial / lacustrine sediments- Brown, wet, medium grained SAND with trace SILT. Occasional silt pocket- Medium loose.
	5		
Slight Seep.	▽		
	6		Glaciolacustrine Sediments - Light brown, moist SILT and SILTY SAND - Stiff to very stiff. TD = 6.2 m
	7		
Photo 2-25			

CAD FILE: \CAD\PGL\42 Plot scale 1=1 STD.1

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TP-S19
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Seepage Pond, NE corner (S.O.P. S19)
DATE Sept 21/95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
JD-690D LC Excavator	▽		Dark brown, wet, loose SILT and fine SAND with ORGANICS. (TOPSOIL).
	1		Bluish grey to brown, moist to wet, dense to very dense SILTY SAND with some GRAVEL, occ. COBBLE. Over-consolidated. (GLACIAL TILL)
Occ. seep, >>1 gpm.	▽		
	2		Grey-green to green brown, moist, very stiff SILT with trace fine SAND Uniform, glaciofluvial / glaciolacustrine sediments. Occasional seep. Over consolidated
	3		
	4		
	5		

CAD FILE: \CAD\FIG\A2 Plot scale 1=1 STD.1

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TP520
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Seepage Collection Pond 15m west of S20
DATE Oct. 5/95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200LC Excavator			Topsoil - Disturbed dark brown, black moist to wet SILT and fine SAND with ORGANICS.
Slight Seep.	▽ 1		Glacial Till - Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES. Has bluish grey mottled horizons which are wet. Overall, moist to wet, medium dense to 1.5m and medium dense to dense at bottom. Slight seep on mottled surfaces
Hole almost dry.	2 3 4 5		Glaciolacustrine / Fluvial Sediments - Brown, moist to wet SAND and SILTY SAND. Stiff to firm.
Vertical trench walls stable.	6		Glaciolacustrine / Fluvial Sediments - As above, but greyish brown color. Moist, stiff. TD = 6.4m
Photo 3-1	7		

CAD FILE: \CAD\PG\A2 Plot scale 1=1 STD.1

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TP S20:S
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Seepage Collection Pond Between S20 / S21.
DATE Oct 5/95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC200LC Excavator	0		Topsoil – Disturbed brown/black, moist to wet SILT and fine SAND with ORGANICS.
	1		Glacial Till – Greenish grey brown SILTY SAND with trace to some GRAVEL and COBBLES. Moist, dense
	2		
Minor seep on sandy cradle in till	3		Glaciolacustrine / Fluvial Sediments – Interlayered light brown SILT and SILTY SAND. Moist to wet (at sandy horizons).
	4		
	5		Glaciolacustrine / Fluvial Sediments – As above, greyish color.
Vertical trench walls stable	6		TD = 6.5m
	7		

Photo 3-2

CAD FILE: LOG\PCL42 Plot scale 1=1 STD.1

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TP-521
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Seepage Pond, SW corner (S.O.P. 521)
DATE Sept 21/95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
JD 690D-LC excavator			Dark brown, moist, loose SILT and fine SAND with ORGANICS. (TOPSOIL)
	1		Brownish grey, moist and dense SILTY SAND / SILT with trace to some GRAVEL, trace COBBLES, occ. BOULDER. (GLACIAL TILL)
Water seeping in sandy sediments.	▽ 2		Brown, loose, very wet medium grained SAND with trace SILT (Birds together). Unstable, sides of trench collapsing. Water seeping in. (Glaciofluvial / Glaciolacustrine sediments.)
Entire trench collapsed. No samples, no photos.	3		Brown, medium dense, moist to wet layered SILT and fine SAND, trace CLAY. Over-consolidated. (Glaciofluvial/Glaciolacustrine sediments).
	4		
	5		

CAD FILE: \CAD\TPG\A2 Plot scale 1=1 STD.1

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. TP521,2
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Seepage Collection Pond East of S21
DATE Oct 5/95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Komatsu PC 200 LC Excavator	0		Topsoil - Disturbed dark brown SILT and fine SAND with ORGANICS WET to MOIST
	1		Glacial Till - Greenish grey brown SILTY SAND and GRAVEL trace to some COBBLES, moist to wet medium dense.
	2		Glaciolacustrine / fluvial sediments - brown, moist to wet fine SAND and SILT, Firm to stiff.
	3		Glaciolacustrine / fluvial sediments - Blue grey interlayered SAND (fine) and SILT. Occasional seam of muddy brown stiff overconsolidated SILT / CLAY. Moist to wet, firm to stiff.
	4		
	5		
Vertical trench walls stable.	6		Glaciolacustrine Sediments - Light brown, interlayered SILT and fine SAND. moist, stiff
	7		TD = 6.0m

Photo 3-3

CAD FILE: \CAD\PG\12 Plot scale 1=1 STD.1

KNIGHT PIESOLD LTD.
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TEST PIT LOG

TEST PIT No. TP-S22
SHEET 1 of 1

PROJECT Mt. Polley
LOCATION OF TEST PIT Seepage Pond, SE corner (S.O.P. S22)
DATE Sept 21/95

PROJECT NO. 1625
GROUND EL.
LOGGED BY KDE

NOTES Groundwater level difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
JD 690D-LC Excavator	▽		Dark brown, wet, loose SILT and fine SAND with ORGANICS (TOPSOIL).
			Greenish-grey to brown, moist, medium dense SILT/SILTY SAND with trace to some GRAVEL. (GLACIAL TILL).
	1		
	▽		Mottled green grey to brown SILT and SILTY fine SAND. Very stiff, moist. mottled appearance due to the presence of randomly oriented grey-blue layers of fine SILT and CLAY with trace SAND and GRAVEL. Layers seep a small amount of water. Dense, over-consolidated GLACIOFLUVIAL/GLACIO-LACUSTRINE SEDIMENTS.
Occ. small seep in bluish layer >> 1gpm.	2		
	▽		
	3		
	4		
	▽		Greyish Blue, moist, very stiff SILT and CLAY with trace SAND. Over-consolidated. Minor seep. Similar to above glaciofluvial/gluciolacustrine sediments.
	5		

CAD FILE: \CAD\FIG\A2 Plot scale 1=1 STB.1


TP95ME-4


TP95ME-4
HAWKEN
WILDLIFE RESCUE


TP95ME-5


TP95ME-6


TP95ME-6


TP95ME-8


TP95ME-9


TP95ME-10


TP-SME-10


TP-SME-11

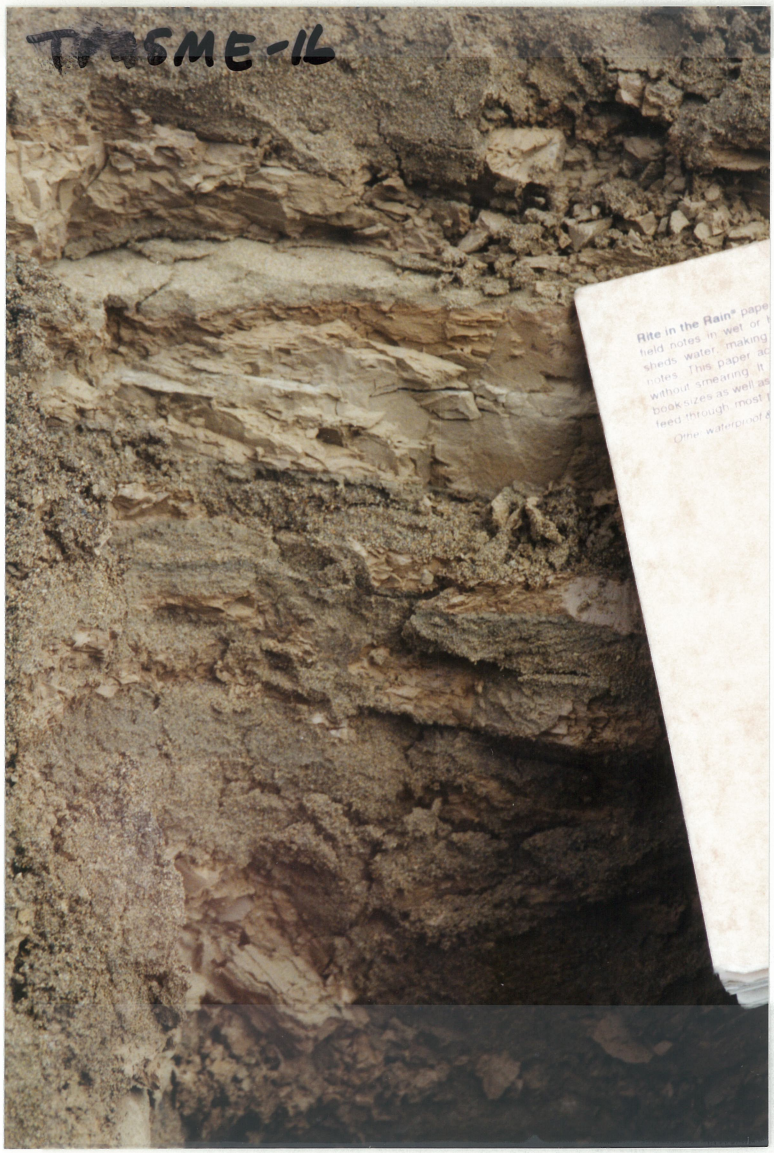

TP-SME-12


TP95ME-13


TP95ME-12


TP95ME-14


TP9SME-15


TP9SME-1L
Rite in the Rain


TP9SME-1L


TP95ME-17


TP95ME-17


TP9SME-20


TP9SME-21


TP9SME-18


TP95ME-24


TP95ME-23


TP95ME-25


TP95ME-27


TP95ME-29


TP95ME-28


TP95 ME-30


TP95 ME-32


TP95 ME-31


TP95ME-33


TP95ME-34


TPS20


TPS21-2


TPS20.5