



**ATTERBERG LIMITS
ASTM D4318**

PROJECT: Mt. Polley Sample ID: S-06-11
 Project Number: VM00560 Date Sampled: 27-Jun-11
 Technician: J. McDonald Depth:
 Date: 29-Jun-11 Comments: Moisture taken from Proctor

Liquid Limit

Trial No.	1	2	3
No. of Blows	33	26	20
Tare ID	I	R	J
Mass Wet + Tare	35.61	35.07	37.11
Mass Dry + Tare	33.06	32.51	34.09
Mass Tare	21.50	21.47	21.60
Mass of Water	2.55	2.56	3.02
Dry Soil Mass	11.56	11.04	12.49
Moisture Content	22.1	23.2	24.2
Liquid Limit	22.9	23.3	23.5

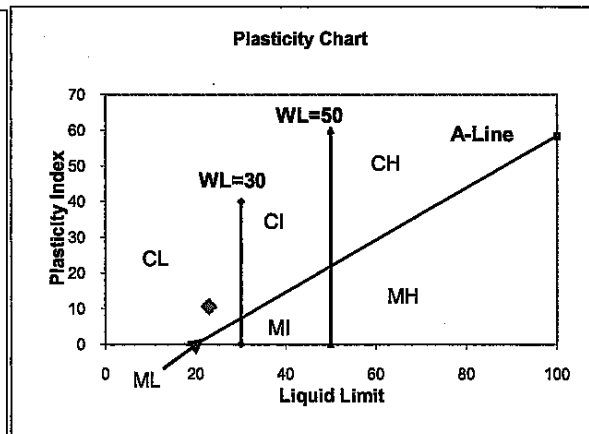
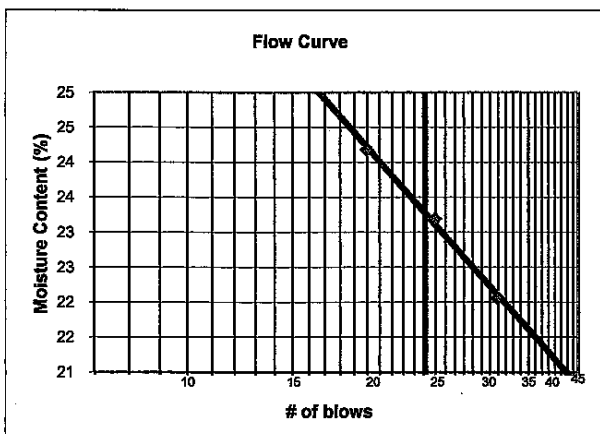
Average Liquid Limit: 23

Plastic Limit

Trial No.	1	2	3
Tare ID	18	24	1
Mass Wet + Tare	23.42	28.40	28.59
Mass Dry + Tare	23.19	27.63	27.80
Mass Tare	21.28	21.53	21.49
Mass of Water	0.23	0.77	0.79
Dry Soil Mass	1.91	6.10	6.31
Moisture Content	12.0	12.6	12.5

Average Plastic Limit 12
 Plasticity Index 11
 Received Moisture 8.4

Plasticity Index $PI = LL - PL$
 Liquidity Index $LI = (MC - PL) / PI$





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CLIENT Mount Polley Mining Corp.
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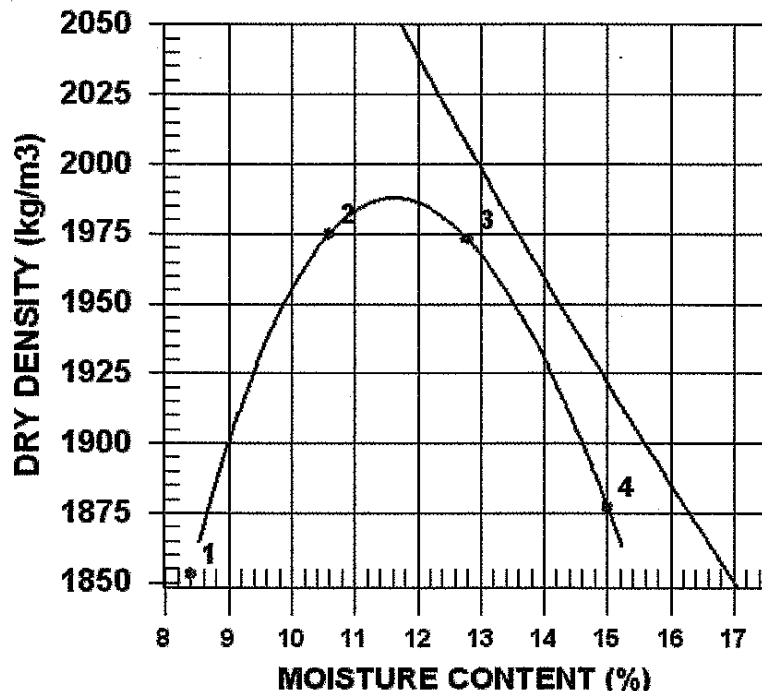
TO [Mount Polley Mining Corp.
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Likely, BC
VOL 2N0

PROJECT Mount Polley

CONTRACTOR

PROCTOR NO. 4 DATE TESTED 2011.Jul.05 DATE RECEIVED 2011.Jun.28 DATE SAMPLED 2011.Jun.27

INSITU MOISTURE	N/A %	COMPACTION STANDARD	Standard Proctor,
SAMPLED BY	D.Ostritchenko		ASTM D698
TESTED BY	M.Lemcke	COMPACTION PROCEDURE	A: 101.6mm Mold,
SUPPLIER	Mt. Polley		Passing 4.75mm
SOURCE	S-06-11	RAMMER TYPE	Automatic
MATERIAL IDENTIFICATION		PREPARATION	Moist
MAJOR COMPONENT	TILL	OVERSIZE CORRECTION METHOD	ASTM 4718
SIZE	50mm	RETAINED 4.75mm SCREEN	15.0 %
DESCRIPTION	CLAYEY	OVERSIZE SPECIFIC GRAVITY	2.70
ROCK TYPE	OTHER	TOTAL NUMBER OF TRIALS	4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2009	1853	8.4
2	2184	1975	10.6
3	2226	1973	12.8
4	2158	1877	15.0

ZERO AIR VOIDS CURVE FOR ESTIMATED SPECIFIC GRAVITY OF 2.70	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1988	11.5
OVERSIZE CORRECTED	2070	10.0

COMMENTS



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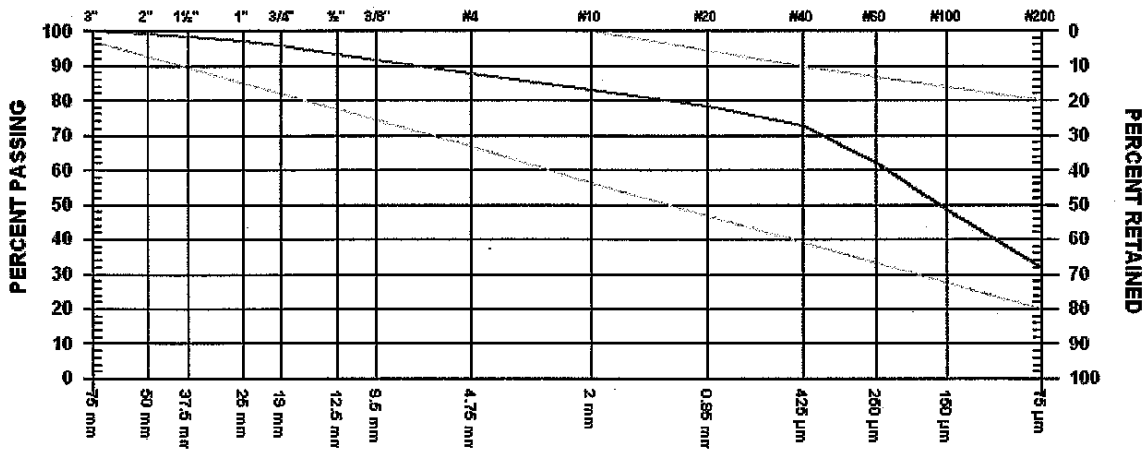
PROJECT Mount Polley

CONTRACTOR

SIEVE TEST NO. 9 DATE RECEIVED 2011.Jun.28 DATE TESTED 2011.Jun.29 DATE SAMPLED 2011.Jun.27

SUPPLIER Mt. Polley
 SOURCE Mt. Polley
 SPECIFICATION Mt Polley - Zone S
 MATERIAL TYPE S-06-11

SAMPLED BY D.Ostritchenko
 TESTED BY M.Tennant
 TEST METHOD WASHED



GRAVEL SIZES	PERCENT PASSING	GRADATION LIMITS
3" 75 mm	100.0	97.0-100.0
2" 50 mm	99.1	
1 1/2" 37.5 mm	98.3	
1" 25 mm	96.9	
3/4" 19 mm	95.6	
1/2" 12.5 mm	93.2	
3/8" 9.5 mm	91.6	

SAND SIZES AND FINES	PERCENT PASSING	GRADATION LIMITS
No. 4 4.75 mm	87.7	67.0-100.0
No. 10 2.00 mm	83.0	56.0-100.0
No. 20 850 µm	78.3	39.0-90.0
No. 40 425 µm	72.7	
No. 60 250 µm	62.3	
No. 100 150 µm	48.6	
No. 200 75 µm	32.1	20.0-80.0

COMMENTS

Page 1 of 1 2011.Jul.07 AMEC Earth & Environmental PER. *M. Michael*

Reporting of these test results constitutes a testing service only. Engineering interpretation or evaluation of test results is provided only on written request.

GRAIN SIZE DISTRIBUTION



Mount Polley Mining Corporation
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OFFICE: Prince George, BC
 PROJECT: VM00560.200.4
 DATE: 07-Jul-11

PROJECT NAME: Mount Polley

TEST No:

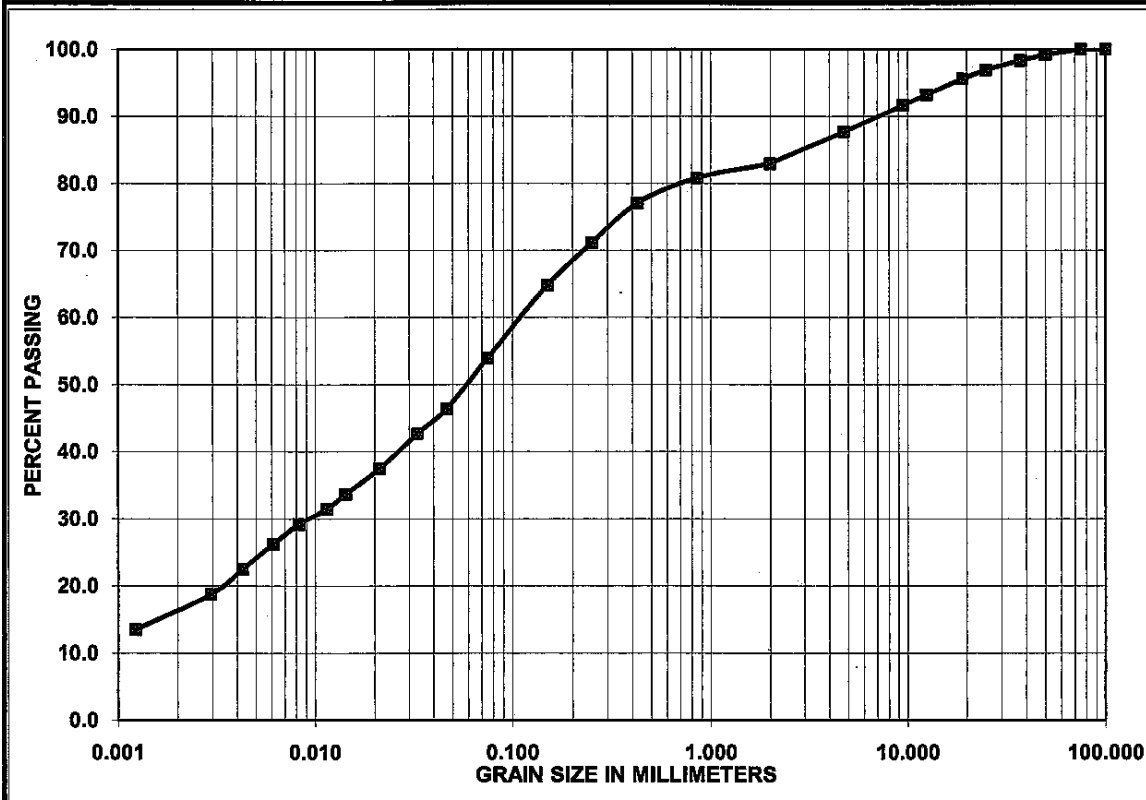
SAMPLED BY: D. Ostritchenko

DATE SAMPLED: 27-Jun-11

SOURCE: S-06-11

DATE TESTED: 5-Jul-11

DEPTH:



SUMMARY	
Grain size (mm)	Passing (%)
75.0	100.0
50.0	99.1
37.5	98.3
25.0	96.9
19.0	95.6
12.5	93.2
9.5	91.6
4.75	87.7
2.00	82.9
0.850	80.8
0.425	77.0
0.250	71.1
0.150	64.8
0.075	54.0
0.0467	46.4
0.0330	42.7
0.0212	37.4
0.0143	33.7
0.0115	31.4
0.0083	29.2
0.0061	26.2
0.0043	22.4
0.0029	18.7
0.0012	13.5

REMARKS:

D ₁₀ =	N/A	GRAVEL	12.34%
D ₃₀ =	N/A	SAND	33.71%
D ₆₀ =	N/A	SILT	38.13%
C _v =	N/A	CLAY	15.83%
C _c =	N/A		

TECHNICIAN: *J. Michael*

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AMEC Earth & Environmental

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3456 Opie Crescent, Prince George, BC, V2N 2P9

**SIEVE ANALYSIS REPORT
10 20 40 60 SERIES**

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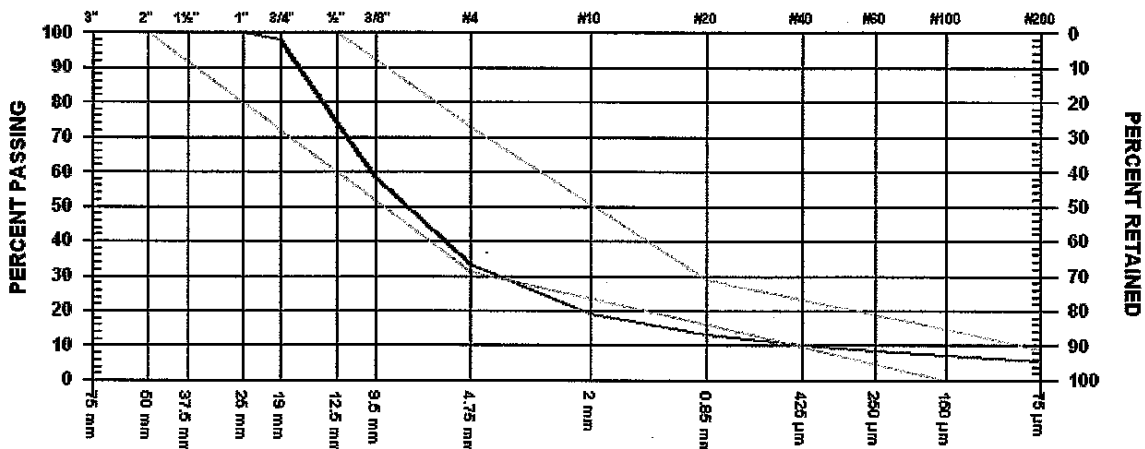
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PROJECT Mount Polley

CONTRACTOR

SIEVE TEST NO. 11 DATE RECEIVED 2011.Jun.28 DATE TESTED 2011.Jun.29 DATE SAMPLED 2011.Jun.27

SUPPLIER	Mt. Polley	SAMPLED BY	D.Ostritchenko
SOURCE	Zone F	TESTED BY	M.Tennant
SPECIFICATION	Mt Polley - Zone F	TEST METHOD	WASHED
MATERIAL TYPE	F-04-11		



GRAVEL SIZES	PERCENT PASSING	GRADATION LIMITS
3" 75 mm		100.0-100.0
2" 50 mm		
1 1/2" 37.5 mm		
1" 25 mm	100.0	60.0-100.0
3/4" 19 mm	97.9	
1/2" 12.5 mm	74.1	
3/8" 9.5 mm	58.4	

SAND SIZES AND FINES	PERCENT PASSING	GRADATION LIMITS
No. 4 4.75 mm	33.4	31.0-73.0
No. 10 2.00 mm	19.2	
No. 20 850 µm	13.1	16.0-29.0
No. 40 425 µm	10.2	
No. 60 250 µm	8.5	0.0-15.0
No. 100 150 µm	7.1	
No. 200 75 µm	5.6	0.0-9.0

MOISTURE CONTENT 3.7%

COMMENTS

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