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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TEST HEAP LEACH PAD CONSTRUCTION REPORT
(REF. NO. VA101-01/17-1)

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Knight Piésold Ltd.

Suite 1400
750 West Pender Street
Vancouver, British Columbia
Canada V6C 2T8

Telephone: (604) 685-0543
Facsimile: (604) 685-0147
E-mail: kpl@knightpiesold.com

Knight Piésold
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TEST HEAP LEACH PAD CONSTRUCTION REPORT
(REF. NO. VA101-01/17-1)

EXECUTIVE SUMMARY

The Mount Polley gold and copper mine is owned by Mount Polley Mining Corporation (MPMC). It is located 56 kilometres northeast of Williams Lake, in central British Columbia. MPMC is currently mining the Bell and Wight Pits with the tailings solids deposited as a slurry into a Tailings Storage Facility (TSF). Exploration at the Springer Zone has confirmed the presence of a significant body of copper-gold mineralization beneath the reserve outlined by previous drilling. The Springer Zone is fully permitted for mining and is expected to provide long term mill feed upon completion of mining at the Bell and Wight Pits. Near surface copper mineralization at the Springer Zone is highly oxidized and cannot be processed by conventional sulphide flotation methods using the existing mill circuit; therefore MPMC is planning on heap leaching this material and has constructed a Test Heap Leach Pad located on the 1150 platform on the East RDS in order to evaluate the leachability characteristics of the ore and confirm metallurgical processes. The Test Heap Leach Pad will contain approximately 200,000 tonnes of ore and will utilize in-heap storage of process solutions.

The Test Heap Leach Pad has a high integrity low permeability double liner system constructed over the entire leach pad area. The double liner system for the pad area contains the following components from bottom to top:

- 150 mm Prepared Subgrade (Zone F);
- 500 mm Soil Liner (Zone S);
- 60-mil smooth HDPE Inner and Outer Liners with a Geonet between them;
- 100 mm diameter cpt pipe runs continuously in an East-West direction with a spacing of 6 metres between pipes and covered with a 1000 mm Protective/Drainage Layer;
- The Test Heap Leach Pad also contains a Leak Collection and Recovery System (LCRS).

The technical supervision and QA/QC program for the earthworks was completed by Knight Piésold. The technical supervision and QA/QC program for the geosynthetics was completed by Nilex Construction with third party observation by Knight Piésold. The technical supervision and QA/QC programs indicate that the Test Heap Leach Pad was constructed within the required specifications in accordance with the Test Heap Leach Pad design and technical specifications.

A 24-hour hydrostatic test was completed to evaluate the integrity of the inner liner. The results of the hydrostatic test indicate that the leakage rate through the inner liner is below a theoretical leakage rate which has been determined by conservatively assuming that one hole or defect is present per acre of liner area. The results of the hydrostatic test were reviewed by Knight Piésold and the test has been successfully completed.

The initial site grading for the Test Heap Leach Pad construction program at Mount Polley Mine commenced in August 2006 and the pad was fully lined with 60-mil HDPE by mid November 2006. The construction program was halted at this time due to winter conditions. Additional items to be completed in the spring at the Test Heap Leach Pad prior to loading the pad include the following:

- Visually inspecting the liner for damage once the pad is free of ice and snow.
- Completing a second hydrostatic test in the sump area to confirm that the inner liner has not been damaged from ice during the winter.
- Installing the drainage system consisting of 100 mm diameter cpt pipe, in the bottom of the leach pad.
- Placing the protective/drainage layer, consisting of plus 6 mm minus 19 mm drain gravel, on top of the drainage system at the bottom of the leach pad.
- Installation of the settlement monuments.

An addendum to the construction report will be issued once the additional work has been completed in the spring of 2007.

MOUNT POLLEY MINING CORPORATION
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TEST HEAP LEACH PAD CONSTRUCTION REPORT
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SECTION 1.0 - INTRODUCTION

1.1 GENERAL

The Mount Polley gold and copper mine is owned by Mount Polley Mining Corporation (MPMC). It is located 56 kilometres northeast of Williams Lake, in central British Columbia. The project site is accessible by paved road from Williams Lake to Morehead Lake and then by gravel road for the final 12 km. The location of Mount Polley Mine is shown on Figure 1.1. Mount Polley Mine started production in 1997 and had milled approximately 27.5 million tonnes of ore prior to temporarily suspending operations from October 2001 to March 2005. The mine was managed on a care and maintenance program between October 2001 and March 2005. MPMC is currently mining the Bell and Wight Pits with the tailings solids deposited as a slurry into the Tailings Storage Facility (TSF).

Exploration at the Springer Zone has confirmed the presence of a significant body of copper-gold mineralization beneath the reserve outlined by previous drilling. The Springer Zone is fully permitted for mining and is expected to provide long term mill feed upon completion of mining at the Bell and Wight Pits. Near surface copper mineralization at the Springer Zone is highly oxidized and cannot be processed by conventional sulphide flotation methods using the existing mill circuit; therefore MPMC is evaluating the potential for heap leaching the near surface copper mineralization from the Springer Pit.

1.2 SCOPE OF REPORT

This report documents the construction program for the Test Heap Leach Pad that will contain approximately 200,000 tonnes of ore and will utilize in-heap storage of process solutions. The report includes a discussion of the construction methods used to complete the work and the results of quality assurance tests on the earthworks and liner materials. The report also includes the results of the 24-hour hydrostatic test and a set of “As -Built” drawings corresponding to the Test Heap Leach Pad construction program.

1.3 RELEVANT DOCUMENTS

The following documents have been referred to or are relevant to this report and should be read in conjunction with this report:

- Test Heap Leach Facility Technical Specifications (Ref. No. VA101-00001/15-1).
- Report on Feasibility Design of Test Heap Leach Pad (Ref. No. VA101-00001/15-2).

SECTION 2.0 - TEST HEAP LEACH PAD CONSTRUCTION PROGRAM

2.1 GENERAL

The Test Heap Leach Pad construction program at Mount Polley Mine commenced in August 2006 and the trial pad was fully lined by mid November 2006. The Test Heap Leach Pad was constructed on top of the 1150 metre platform on the East RDS and covers an approximate area of 18,000 m^2. It provides storage for approximately 200,000 tonnes of leach ore at a bulk density of 1.8 tonnes/m^3. The total storage volume of the completed Test Heap Leach Pad below elevation 1150.8 m is approximately 51,500 m^3.

The general arrangement of the Test Heap Leach Pad is shown on Drawing 100 with sections and details provided on Drawing 200. The instrumentation details are shown on Drawing 300. The material specifications are shown on Drawing 300.

A high integrity low permeability double liner system was constructed over the entire leach pad area. The double liner system for the pad area is shown on Drawing 200 and contains the following components from bottom to top:

- 150 mm Prepared Subgrade (Zone F);
- 500 mm Soil Liner (Zone S);
- 60-mil smooth HDPE Outer Liner;
- LCRS Geonet;
- 60-mil smooth HDPE Inner Liner;
- 500 mm Protective/Drainage Layer.

The liner system for the sump area is shown on Drawing 200 and contains the following components:

- 150 mm Prepared Subgrade (Zone F);
- 500 mm Soil Liner (Zone S);
- 60-mil smooth HDPE Outer Liner;
- 1000 mm LCRS Gravel Layer wrapped in geotextile on top of geonet;
- 60-mil smooth HDPE Inner Liner;
- 500 mm Protective/Drainage Layer;
- Drain Rock surround to cover the riser pipe.

The Test Heap Leach Pad contains a Leak Collection and Recovery System (LCRS) which consists of the following components:

- A geonet drainage layer located between the inner and outer liners;
- A sump that has LCRS gravel between the inner and outer liners;
- A mechanical pump solution removal system.

2.2 CONSTRUCTION ACTIVITIES

The Test Heap Leach Pad construction program consisted of the following activities:

- Stripping organic material and moving large boulders from the footprint of the work area.
- Surveying the area to provide proper excavation and grading.
- Excavating and shaping the sub-grade to the designated lines and grades shown on the Drawings.
- Placing the Zone F subgrade in a 150 mm thick lift. The material was compacted using a 10-tonne smooth drum vibratory roller.
- Placing low permeability soil liner material on top of the prepared sub-grade surface. The soil liner material was sourced from borrow area #3, which is located to the south of the Tailings Storage Facility. The soil liner was placed in two 300 mm thick lifts to ensure a minimum thickness of 500 mm. Each layer was compacted with a 10-tonne smooth drum vibratory roller.
- Construction of the anchor trench surrounding the perimeter of the leach pad.
- Placement of the 60-mil HDPE outer liner on top of the soil liner material. NILEX Construction Inc. from Edmonton, Alberta was contracted by MPMC to supply and install the synthetic liner. All panels were extended a minimum of one meter in the anchor trench surrounding the facility.
- Placement of geonet and geotextile in the sump area. A 10-oz. non-woven geotextile was placed on the geonet in the sump area in preparation for the LCRS gravel.
- Placement of a 200 mm PVC riser pipe in the northwest corner of the sump. The bottom 2 m of the riser pipe were perforated with 200 slots, approximately 10 mm wide by 100 mm long. The perforated area was wrapped with a 10-oz. non-woven geotextile prior to being placed in the LCRS sump.
- Placement of five – 100 mm slotted CPT pipes in the LCRS sump to enhance drainage towards the riser pipe.
- Placement of the LCRS gravel layer in the sump area. The LCRS gravel layer was then wrapped with the geotextile and the geotextile was fused together.
- Placement of Geonet on top of the outer HDPE 60-mil liner. The geonet was extended a minimum of one meter in the anchor trench surrounding the facility.
- Placement of the inner HDPE 60-mil liner on top of the geonet. All panels were extended a minimum of one meter in the anchor trench surrounding the facility.
- Placement of material in the anchor trench surrounding the facility. Zone S material was placed and compacted in the anchor trench in 300 mm thick lifts on the West and South sides of the facility. Waste rock was used to backfill the anchor trenches on the East and North sides of the facility. All material placed in the anchor trench was at least one meter in depth.

Select photographs for the construction program are included in Appendix D.

2.3 OUTSTANDING ITEMS TO COMPLETE

The following outstanding work items that need to be completed at the Test Heap Leach Pad include the following:

- Visual inspection of the inner liner for damage once the pad is free of ice and snow.
- Completing a second hydrostatic test within the sump area to confirm that the inner liner has not been damaged from ice during the winter.
- Installing the pipe drainage system on the floor of the leach pad.
- Placing the protective/drainage layer on top of the drainage system on the floor of the leach pad.
- Placing the drain rock around the base of the riser pipe in the sump.
- Installing the settlement monuments.

The outstanding items are scheduled to be completed in the spring of 2007.

SECTION 3.0 - QA/QC - EARTHWORKS

3.1 GENERAL

Knight Piésold provided the design for the Test Heap Leach Pad, prepared the Technical Specifications, provided technical assistance and performed quality assurance/quality control (QA/QC) testing during the earthworks construction program. Key items addressed by Knight Piésold Ltd. included:

- Foundation inspection and approval prior to fill placement.
- Assessment of borrow material suitability.
- Inspection of fill placement procedures.
- In-situ testing of placed and compacted fill for density and moisture content.
- Collection and testing of Control and Record samples.

Knight Piésold worked under the overall management and administration of MPMC. MPMC completed the earthworks construction. Material samples collected for laboratory testing during the construction program included Control and Record samples. The Control tests were carried out on materials collected from the borrow areas or from source locations to determine their suitability for use in the work. Record tests were performed on materials after placement and compaction to document the level of workmanship achieved and to ensure that the design objectives were met. Nuclear Densometer tests were performed to determine the density and moisture content of the compacted Zone S soil liner. The Control and Record test results are presented in Appendix C.

The earthworks for the Test Heap Leach Pad construction program comprised the following zones and materials:

- Zone F - Prepared subgrade material - processed gravel and sand.
- Zone S - Soil liner material -fine grained glacial till.
- LCRS - Leak Collection and Recovery System - processed gravel and sand.

The material specifications for the fill materials are shown on Drawing 400. The fill materials are discussed in the following sections.

3.2 ZONE F – PREPARED SUBGRADE

Zone F material was produced from the crusher at the mine site. Waste rock from the mining operation was used to produce crushed material within the material specifications. The Zone F material used for the prepared subgrade for the Test Heap Leach Pad was the same specification as the Zone F material used in the Tailings Storage Facility Embankments. The Zone F material was prepared using the mine crusher and three Control samples (KP06-ZF-01C to 03C) were collected for particle size analyses testing. The results of the Control test particle size analyses on the Zone F material are shown on Figure 3.1. The Control test particle size analyses confirmed that the Zone F material was suitable for use in the work.

The Zone F material was placed in a single 150 mm thick lift covering the entire leach pad and sump area and was compacted with a minimum four passes of a 10-tonne vibratory roller. The placement of Zone F was inspected by the site engineer.

Three Zone F Record samples (KP06-ZF-01R to 03R) were collected by the Site Engineer and sent to the MPMC lab for Particle Size Analyses testing. The results of the Record test particle size analyses on the Zone F material are shown on Figure 3.2.

All of the Zone F Record samples were within the design specification for this material.

3.3 SOIL LINER

The Soil Liner material was sourced from borrow area #3, which is located to the south of the Tailings Storage Facility and is an existing borrow area for the Zone S material for the tailings dam construction. The soil liner material gradation limits are the same specification as the Zone S material used as the core zone material in the Tailings Storage Facility Embankments. Six Soil Liner Control samples (KP06-ZS-01C to 06C) were collected and sent to GeoNorth in Prince George for lab testing. Laboratory test work on the samples included: natural moisture content, grain size distribution, laboratory compaction, and Atterberg limits. The Control test results are summarized on Table 3.1. The results of the Control test particle size analyses on the Soil Liner material are shown on Figure 3.3. Control testing confirmed that the material was suitable for use as Soil Liner Material.

Two Record samples (KP06-ZS-01R to 02R) were collected and tested in a soils laboratory. The Record test results indicate that the well graded Soil Liner material is typically comprised of silty sand with some gravel and some clay. The Record test results for the Soil Liner material are presented in Appendix A and summarized on Table 3.2. The gradation curves of the Soil Liner Record Tests are shown on Figure 3.4. The moisture content of the Record Samples ranged from 10.3 to 12.0 percent, with an average of 11.2 percent. The Standard Proctor Maximum Dry Density ranged from 2,100 to 2,120 kg/m^3, with an average of 2,110 kg/m^3. The plastic limits ranged from 14.0 to 14.7 percent, with an average of 14.4 percent. The liquid limits ranged from 22.1 to 22.5 percent, with an average of 22.3 percent. All of the Soil Liner Record test results were within the specified limits for the material.

A total of 89 field density and moisture content tests were performed on the Soil Liner material using a nuclear densometer to assess the compacted density and moisture content. Compacted materials that failed to meet the compaction requirements were re-compacted until the minimum compaction requirements were met or the material was removed from the leach pad. The compacted dry density ranged from 1,986 to 2,203 kg/m^3, with an average of 2,089 kg/m^3. The compacted dry density histogram is shown on Figure 3.5. The compacted moisture content ranged from 8.0 to 12.1%, with an average of 10.0%. The compacted moisture content histogram is shown on Figure 3.6. The percent compaction as compared to the Standard Proctor maximum dry density ranged from 95.0 to 105.4%, with an average of 100%. The percent compaction results are shown on Figure 3.7. The deviation from the Standard Proctor optimum moisture

content ranged from -0.9% to 3.2%, with an average of 1.1%. The deviation from the Standard Proctor optimum moisture content histogram is shown on Figure 3.8.

The field density tests indicate that all of the soil liner material was placed and compacted within the required material specifications and was in accordance with the design of the Test Heap Leach Pad. The nuclear densometer results are provided in Appendix B.

The soil liner surface was visually inspected by the Site Engineer for rock extrusions and wet areas. Areas with high moisture content were marked and the material was removed. New material was placed and compacted. Rock extrusions were also removed to provide a smooth surface for the 60-mil HDPE liner.

3.4 LCRS GRAVEL LAYER

LCRS gravel material was placed in the sump to provide a high capacity collection area for potential leakage through the inner liner. The LCRS drainage material obtained was round, clean drain rock ranging from minus 1½" to plus ½".

One record sample (KP06-LCRS-01R) was collected for particle size testing during the placement of the LCRS material. The results of the Record test particle size analyses on the LCRS material are shown on Figure 3.6.

3.5 ANCHOR TRENCHES

The anchor trenches around the perimeter of the leach pad were backfilled with material following the installation of the 60-mil HDPE liner and the geonet. Zone S material was placed and compacted in 150 mm layers on the North and East sides of the leach pad. Excavated trench material was backfilled into the trench on the South and West sides.

3.6 INSTRUMENTATION

Instrumentation for the Test Heap Leach Pad consists of Surface Movement Monuments. Three Surface Movement Monuments will be installed in the spring of 2007. The monuments will be monitored by MPMC on a quarterly basis, with the results forwarded to the design Engineer.

SECTION 4.0 - QA/QC - 60 MIL HDPE LINER

4.1 GENERAL

The 60-mil smooth HDPE liner used to cover the leach pad area was supplied and installed by NILEX Construction in full accordance with the requirements of the technical specifications and in accordance with generally accepted industry standards. All certificates of manufacturing of the liner rolls were registered together with roll numbers and the installed panel numbers on deployment records. The registration enables each roll to be traced from manufacture and delivery to its final location in the facility. The deployment records also include details concerning the equipment used to weld seams, the repairs made, the destructive seam testing of samples for peel and shear strength. The as-built panel layouts for the outer and inner liners, test logs, daily records, certificates and inspection sheets for the 60-mil smooth HDPE synthetic liner are included in Appendix C.

4.2 HDPE INSTALLATION

Deployment of the rolls of the synthetic liner was carried out using a front end loader with a spreader bar as well as a custom designed trailer with a roll bar attached. These two pieces of equipment allowed Nilex to unroll each panel onto the prepared surface. Each panel was then ballasted in place with sand bags. The rolls were oriented parallel to the slope direction to minimize stress on the seams as much as possible. The panel layouts are included in Appendix C.

The seams were welded using the double-wedge fusion welding process. The equipment used was constantly tested by welding trial sample seams which were destructively tested for peel and shear strength to ensure that the equipment was operating correctly. Malfunctioning equipment was repaired, re-tested, or replaced.

All field seams were pre-cleaned and dried prior to welding and no “bubbling” or “fish mouths” were permitted during installation of the synthetic liner.

4.3 HDPE LINER QUALITY CONTROL

During manufacture of the synthetic liner, random samples of liner material were collected and tested for the following:

- Thickness;
- Density;
- Tensile properties;
- Tear resistance;
- Puncture resistance;
- Carbon black content.

The test results were included on the roll certification verifying that each roll to be used had been manufactured in accordance with the requirements of the technical specifications. The roll certifications are included in Appendix C.

4.4 FIELD SEAM TESTING

A comprehensive program for field quality control which involved field seam sampling and testing was carried out by Nilex, with third party observation by Knight Piésold. The field seam testing included the following:

- Visual observations;
- Non-destructive testing;
- Destructive strength testing.

Visual observations of field seams were routinely made to inspect the seam for squeeze-out, footprint, melt, over grind where applicable, and overlap. Defects were marked and repaired in accordance with the industry standard repair procedures.

Non-destructive testing on all seams, patches, and extruded beads was carried out to ensure water tight uniform seams. The general testing procedure completed by Nilex was as follows:

- Test wedge welded seams with inter-seam pressure.
- Test extrusion welded seams and beads with vacuum box.

All failures were isolated and repaired in accordance with applicable repair procedures.

Destructive strength tests were carried out on random samples removed from every 150 m length of seam. Samples that were taken from inside the leach pad were repaired and tested using a vacuum box, while the samples tested in the anchor trench were left without a patch. The samples were tested on site for peel and sheer strength using a field tensiometer.

The results of the technical supervision and QA/QC testwork indicate that the geosynthetics, including the 10-oz non-woven geotextile in the sump and the geonet LCRS between the outer and inner liners, were installed in accordance with the design and technical specifications of the Test Heap Leach Pad. The results of the QA/QC testwork for the liner installation are included in Appendix C.

SECTION 5.0 - HYDROSTATIC TEST

5.1 GENERAL

A hydrostatic test was completed at the Test Heap Leach Pad to evaluate the integrity of the liner by comparing the actual leakage rate to the theoretical leakage rate based on using empirical equations proposed by Bonaparte et al. (1989). The equations assumed that one hole per acre (4,047 m^2), with an effective area of 10 mm^2, would have the potential to exist for a geomembrane liner placed with a high level of quality control. The resulting predicted leakage rate in no way reflects the expected operational levels, but represents worst case conditions for assessment of environmental impact.

5.2 METHODOLOGY

Mount Polley Mine started filling the Test Heap Leach Pad on December 8th, 2006 at 1:30 p.m. The water was pumped from the Cariboo Pit with a 375 hp pump. The pad was filled to an elevation of 1150.2 m (average 4.7 m hydraulic head) on December 10th at 8:00 a.m. This elevation was maintained for 24-hours for the hydrostatic test.

The LCRS flow was measured every hour and recorded. Once the hydraulic test was deemed complete and acceptable by Knight Piésold, MPMC removed the water with 2 – 58 hp pumps and piped it back to the Cariboo pit.

5.3 RESULTS OF HYDROSTATIC TEST

The formula for calculating the maximum allowable leakage rate through the inner liner of the leach pad was Bernoulli's free flow through an orifice equation, which is based on the area of the hole and the hydraulic head. The formula is as follows:

$$Q\ (l/min) = C_B a\ (2gh)^{0.5} \times 60 \times 1000$$

where $C_B = 0.6$
a = area of the hole (m^2)
g = acceleration due to gravity
h = hydraulic head on top of the geomembrane (m)

The results of the 24-hour hydraulic test indicate that the leakage through the inner liner of the leach pad, with an average depth of water of 4.5 m, was approximately 12.3 l/min, which was less than the theoretical allowable leakage rate for the leach pad, which was calculated to be 16.9 l/min. The specified maximum allowable leakage rate for the leach pad assumed one hole or defect per acre, for a total of five holes. The results of the hydrostatic test are shown on Figure 5.1. The results of the hydrostatic test were reviewed by Knight Piésold and the test was deemed to have been successfully completed on December 18, 2006. The leakage rate and head criteria for the hydrostatic test were satisfied and met the design objectives.

SECTION 6.0 - DESIGN MODIFICATIONS

Knight Piésold Ltd. employs a strict procedure for making design modifications (changes or substitutions) in the field. All design change requests are submitted in writing by the Resident Engineer to the Knight Piésold. Vancouver Office for review and evaluation.

The design modifications implemented during the Test Heap Leach Pad construction program were as follows:

- The herringbone configuration of the solution drainage pipes on the inner liner was modified to run parallel to the 2% slope of the leach pad.
- Adding 100 mm CPT pipes in the LCRS gravel. The LCRS gravel in the LCRS sump is sufficient to route any flows towards the TCRS riser pipe. The inclusion of the 100 mm CPT pipes in the LSCR gravel was requested by MPMC, but was not a design requirement. Knight Piésold did not have any objections for adding the extra pipe.
- The geotextile in the sump did not completely surround the LCRS gravel. This design change involved completely wrapping the LCRS gravel as well as the end of the 200 m riser pipe.
- The side slopes of the Test Heap Leach Pad were flattened to 3H:1V (from 2H:1V) to simplify the construction and liner placement.
- The sump was reduced in size and relocated to the northwest corner of the leach pad.
- The coarse limit of the LCRS gravel was modified to allow for coarser matter to be used.

All of the design modifications were requested of MPMC and reviewed by Knight Piésold prior to approval.

SECTION 7.0 - SUMMARY AND RECOMMENDATIONS

The Test Heap Leach Pad construction program at Mount Polley Mine commenced in August 2006 with the site grading and was fully lined by mid November 2006. The earthworks construction program involved preparing the sub grade, placing the low permeability Soil Liner material and placing the LCRS gravel material in the sump. The geosynthetics construction program involved installing an outer and inner 60-mill smooth HDPE geomembrane, with a LCRS geonet installed between the liners.

The technical supervision and QA/QC program for the earthworks was completed by Knight Piésold. The technical supervision and QA/QC program for the geosynthetics was completed by Nilex Construction with third party observation by Knight Piésold. The technical supervision and QA/QC programs indicate that the Test Heap Leach Pad was constructed in accordance with the Test Heap Leach Pad design and technical specifications.

The results of the hydrostatic test indicate that the leakage rate through the inner liner is below the maximum specified calculated leakage rate which assumes one hole or defect per acre. The results of the hydrostatic test were reviewed by Knight Piésold and the test was successfully completed.

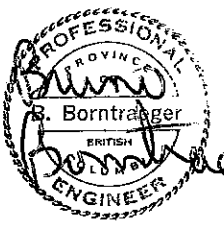
Additional work to be completed at the Test Heap Leach Pad include the following:

- Visual inspection of the inner liner for damage once the pad is free of ice and snow.
- Completing a second hydrostatic test within the sump area to confirm that the inner liner had not been damaged from ice during the winter.
- Installing the drainage piping system in the bottom of the leach pad.
- Placing the protective/drainage layer on top of the drainage piping system at the bottom of the leach pad.
- Installation of the settlement monuments.

An addendum to the construction report will be issued once the additional work has been completed in the spring of 2007.

SECTION 8.0 - CERTIFICATION

This report was prepared and approved by the undersigned.



March 17, 2007

Prepared by:

Bruno Borntraeger, P.Eng.
Senior Project Manager

Mar 14, 2007

Approved by:

Ken J. Brouwer, P.Eng.
Managing Director

Knight Piésold CONSULTING

TABLE 3.1

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TEST HEAP LEACH PAD CONSTRUCTION PROGRAM

SOIL LINER CONTROL SAMPLES - SUMMARY

M:\1\01\00001\17\A\Report\1-Construction Report\Rev 0\Tables\[Lab Test Summary.xls]Control

Revised: 05-Feb-07

Sample No.	Atterberg Limits			MC	Grain Size Analysis				Standard Proctor				MC
					Gravel	Sand	Silt	Clay	Uncorrected		Corrected		Deviation from Optimum (%)
	L.L. (%)	P.L. (%)	P.I. (%)	M.C. (%)	> #4 (%)	#4 to #200 (%)	#200 to .002 (%)	< .002 (%)	Max D.D. (kg/m^3)	Opt. M.C. (%)	Max D.D. (kg/m^3)	Opt. M.C. (%)	
KP06-ZS-01C	17.3	13.7	3.7	9.1	20.0	32.5	37.5	10.0	2000	9.0	2080	7.5	1.6
KP06-ZS-02C	17.6	13.3	4.3	7.8	14.1	31.0	40.9	14.0	2000	10.0	2060	9.0	-1.2
KP06-ZS-03C	18.6	15.2	3.4	9.8	17.6	30.6	37.4	14.4	2080	9.5	2140	8.5	1.3
KP06-ZS-04C	18.9	16.0	2.9	14.2	13.3	15.3	58.4	14.4	1980	11.5	2030	10.5	3.7
KP06-ZS-05C	23.5	14.2	9.3	11.2	25.1	26.4	35.4	13.1	2040	10.5	2140	8.5	2.7
KP06-ZS-06C	23.3	14.2	9.1	10.4	17.7	29.6	39.3	13.4	2020	10.5	2090	9.5	0.9
AVERAGE	19.9	14.4	5.5	10.4	18.0	27.6	41.5	13.2	2020	10	2090	8.9	1.5
MAXIMUM	23.5	16.0	9.3	14.2	25.1	32.5	58.4	14.4	2080	11.5	2140	10.5	3.7
MINIMUM	17.3	13.3	2.9	7.8	13.3	15.3	35.4	10.0	1980	9.0	2030	7.5	-1.2

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TABLE 3.2

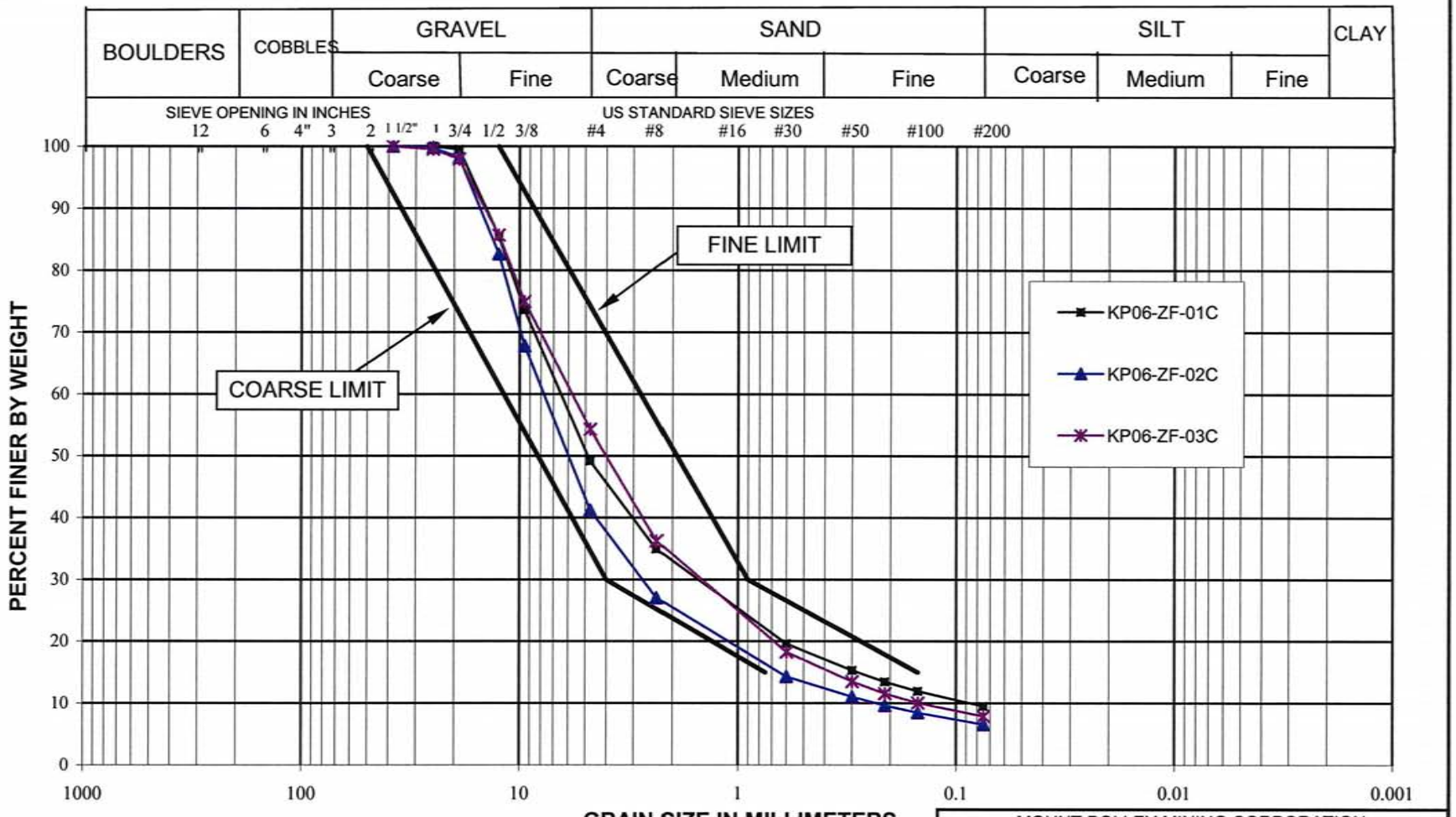
MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TEST HEAP LEACH PAD CONSTRUCTION PROGRAM

SOIL LINER RECORD SAMPLES - SUMMARY

M:\1\01\00001\17\A\Report\1-Construction Report\Rev 0\Tables\[Lab Test Summary.xls]Record

Revised: 05-Feb-06

Sample No.	Atterberg Limits			MC	Grain Size Analysis				Standard Proctor				MC
					Gravel	Sand	Silt	Clay	Uncorrected		Corrected		Deviation from Optimum (%)
	L.L. (%)	P.L. (%)	P.I. (%)	M.C. (%)	> #4 (%)	#4 to #200 (%)	#200 to .002 (%)	< .002 (%)	Max D.D. (kg/m^3)	Opt. M.C. (%)	Max D.D. (kg/m^3)	Opt. M.C. (%)	
KP06-ZS-01R	22.1	14.0	8.1	12.0	18	28	38	16	2030	9.5	2100	8.5	3.5
KP06-ZS-02R	22.5	14.7	7.8	10.3	20	27	36	17	2040	10.0	2120	8.5	1.8
AVERAGE	22.3	14.4	8.0	11.2	19	27	37	17	2035	9.8	2110	8.5	2.7
MAXIMUM	22.5	14.7	8.1	12.0	20	28	38	17	2040	10.0	2120	8.5	3.5
MINIMUM	22.1	14.0	7.8	10.3	18	27	36	16	2030	9.5	2100	8.5	1.8



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

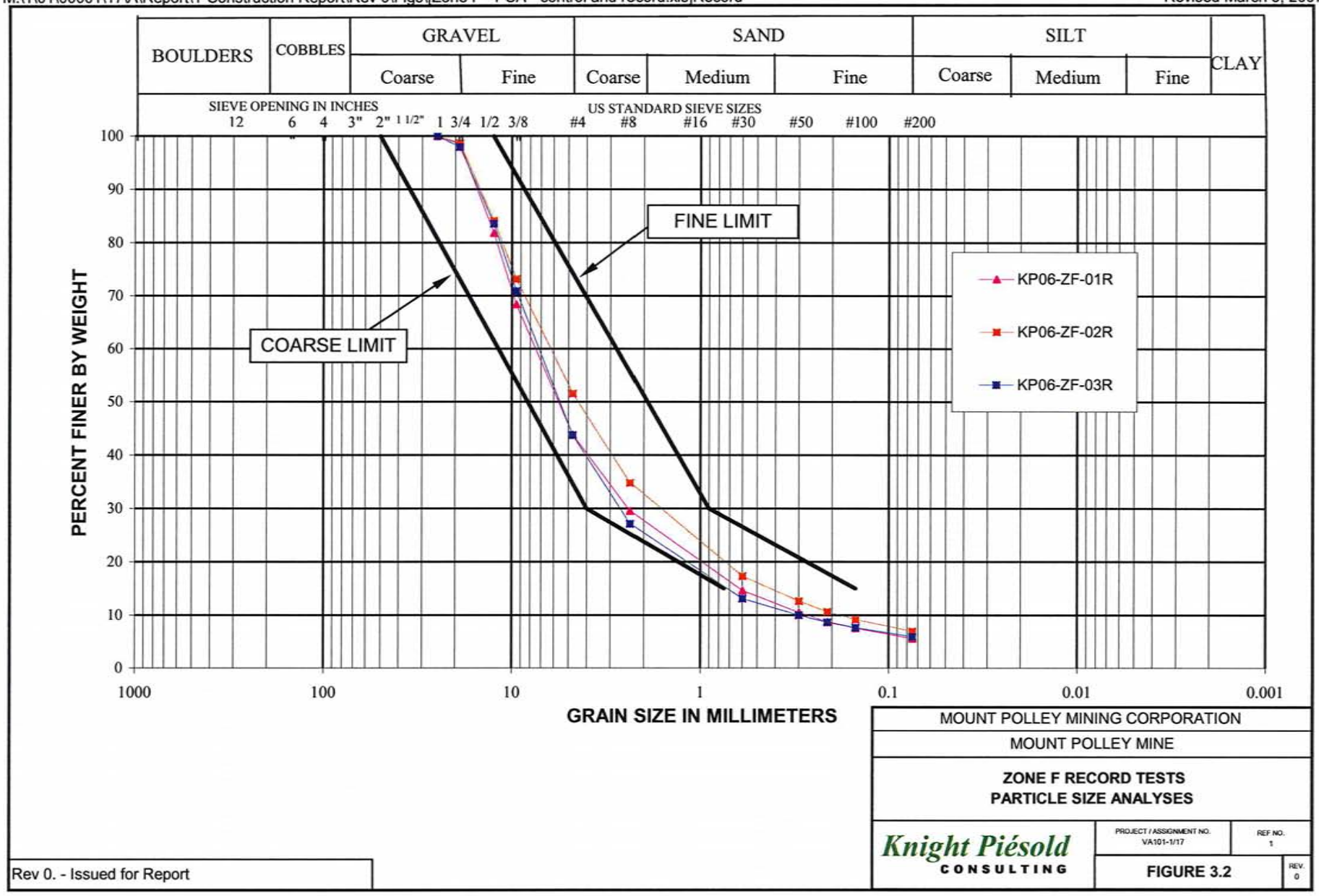
ZONE F CONTROL TESTS
PARTICLE SIZE ANALYSES

Knight Piésold CONSULTING

PROJECT / ASSIGNMENT NO. VA101-1/17 | REF NO. 1

FIGURE 3.1 | REV. 0

Rev 0. - Issued for Report



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

ZONE F RECORD TESTS
PARTICLE SIZE ANALYSES

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PROJECT / ASSIGNMENT NO. VA101-1/17

REF NO. 1

FIGURE 3.2

REV. 0

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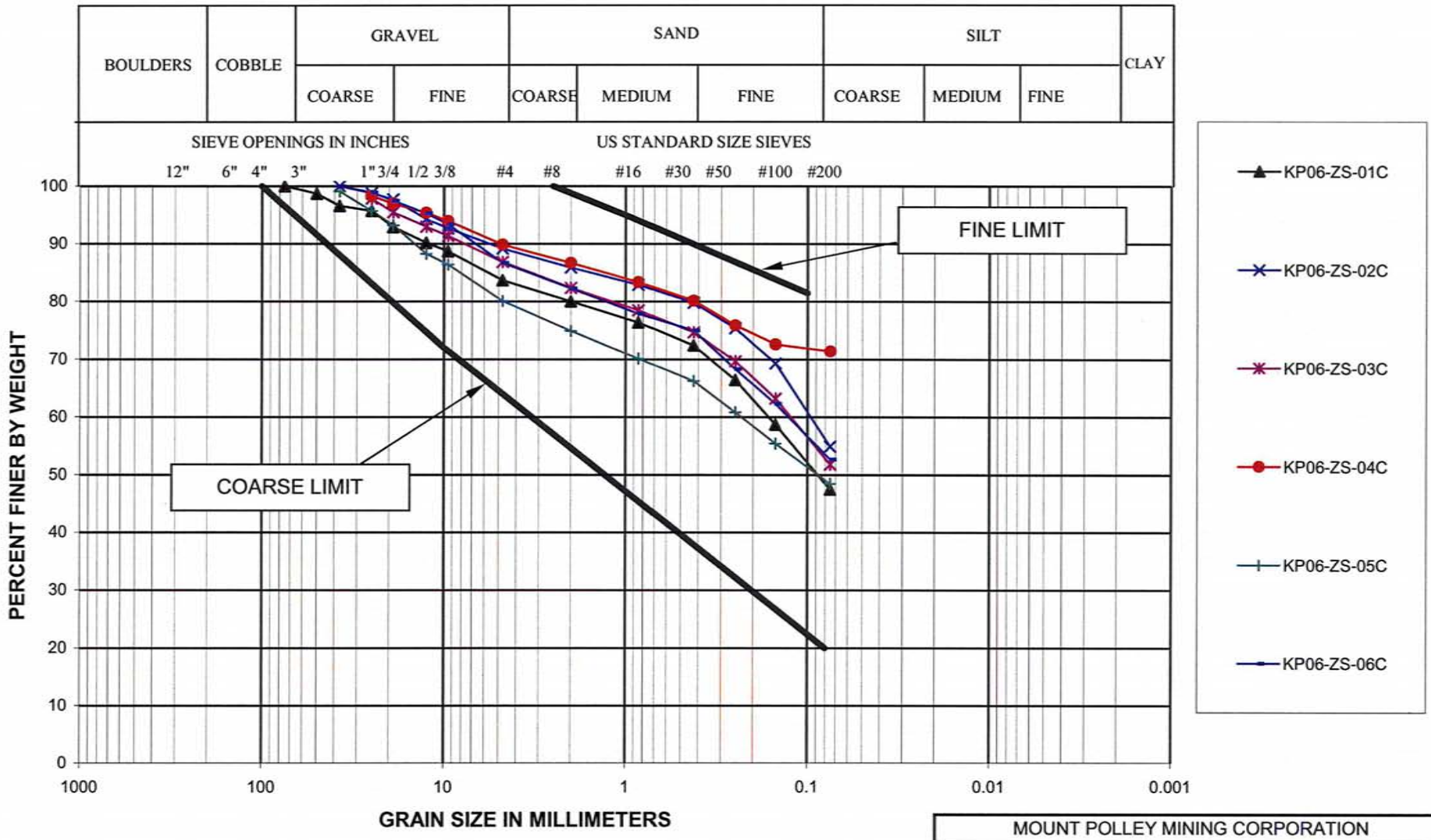

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

ZONE S CONTROL TESTS
PARTICLE SIZE ANALYSES

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PROJECT / ASSIGNMENT NO. VA101-1/17

REF NO. 1

FIGURE 3.3

REV. 0

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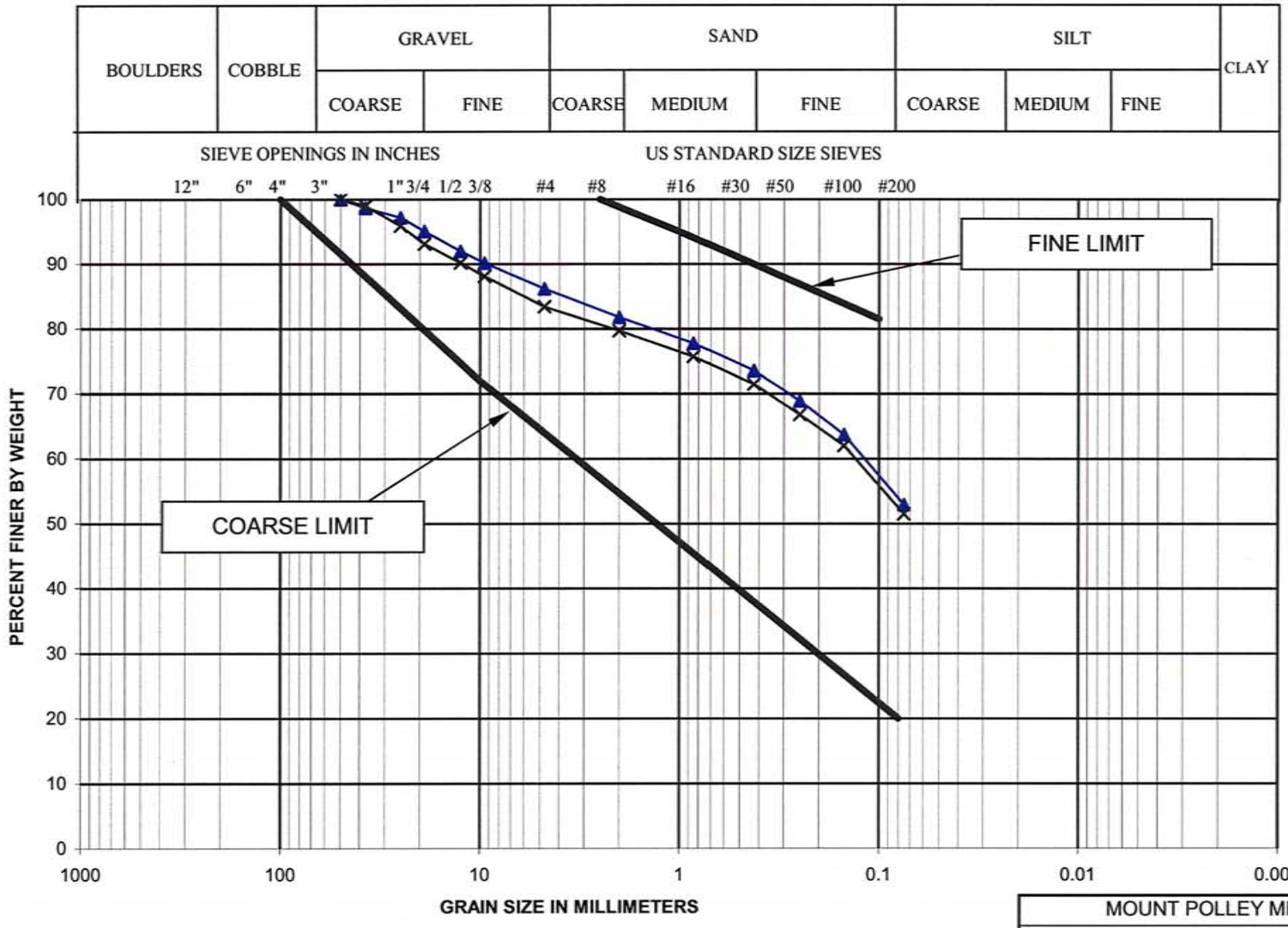

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

ZONE S RECORD TESTS
PARTICLE SIZE ANALYSES

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PROJECT / ASSIGNMENT NO. VA101-1/17

REF NO. 1

FIGURE 3.4

REV. 0

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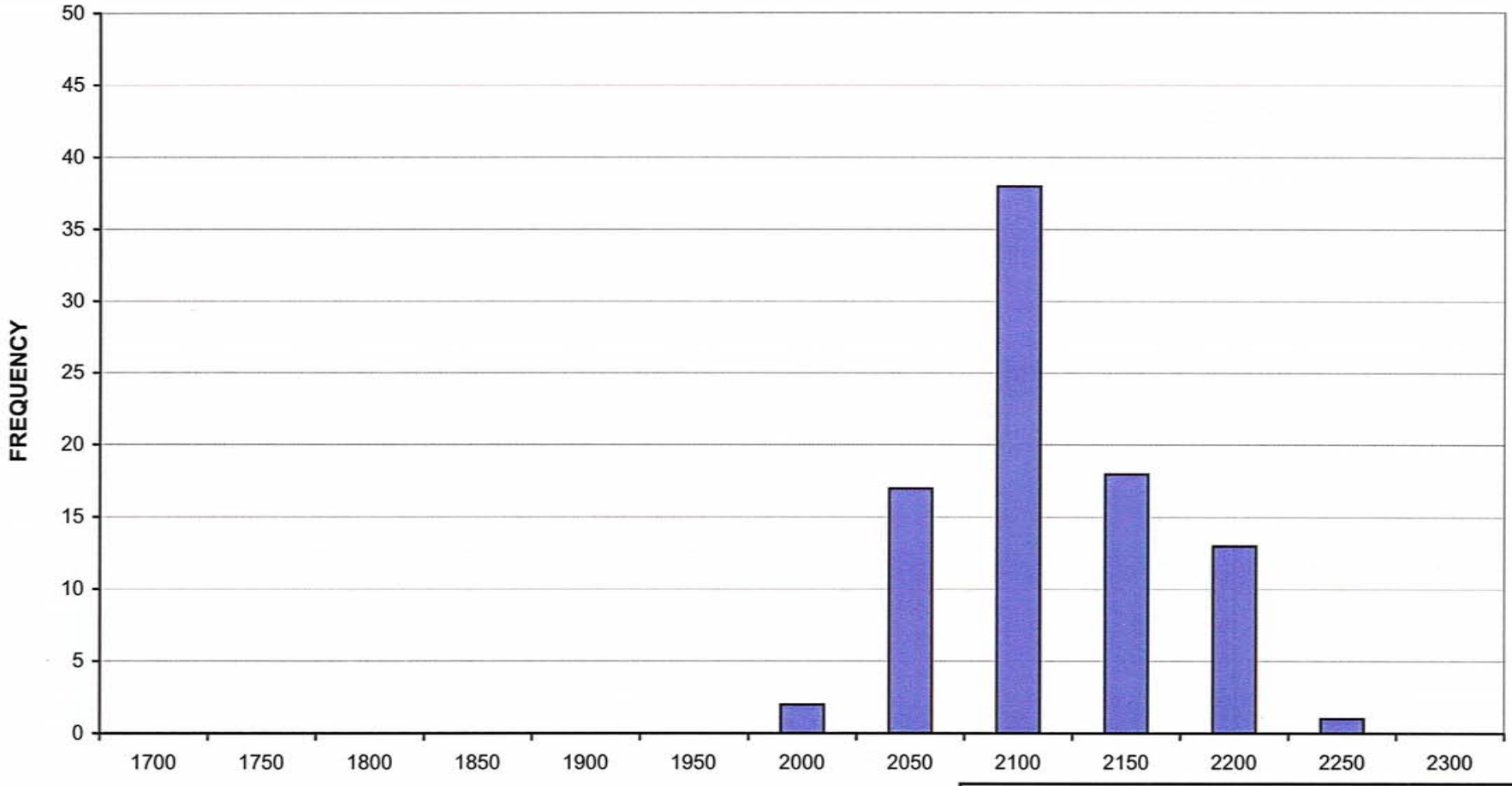

Notes:
1. The compacted dry density was measured using a nuclear densometer.

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

FIELD COMPACTED DRY DENSITY
SOIL LINER

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PROJECT / ASSIGNMENT NO.	REF NO.	REV.
VA101-1/17	1	0

FIGURE 3.5

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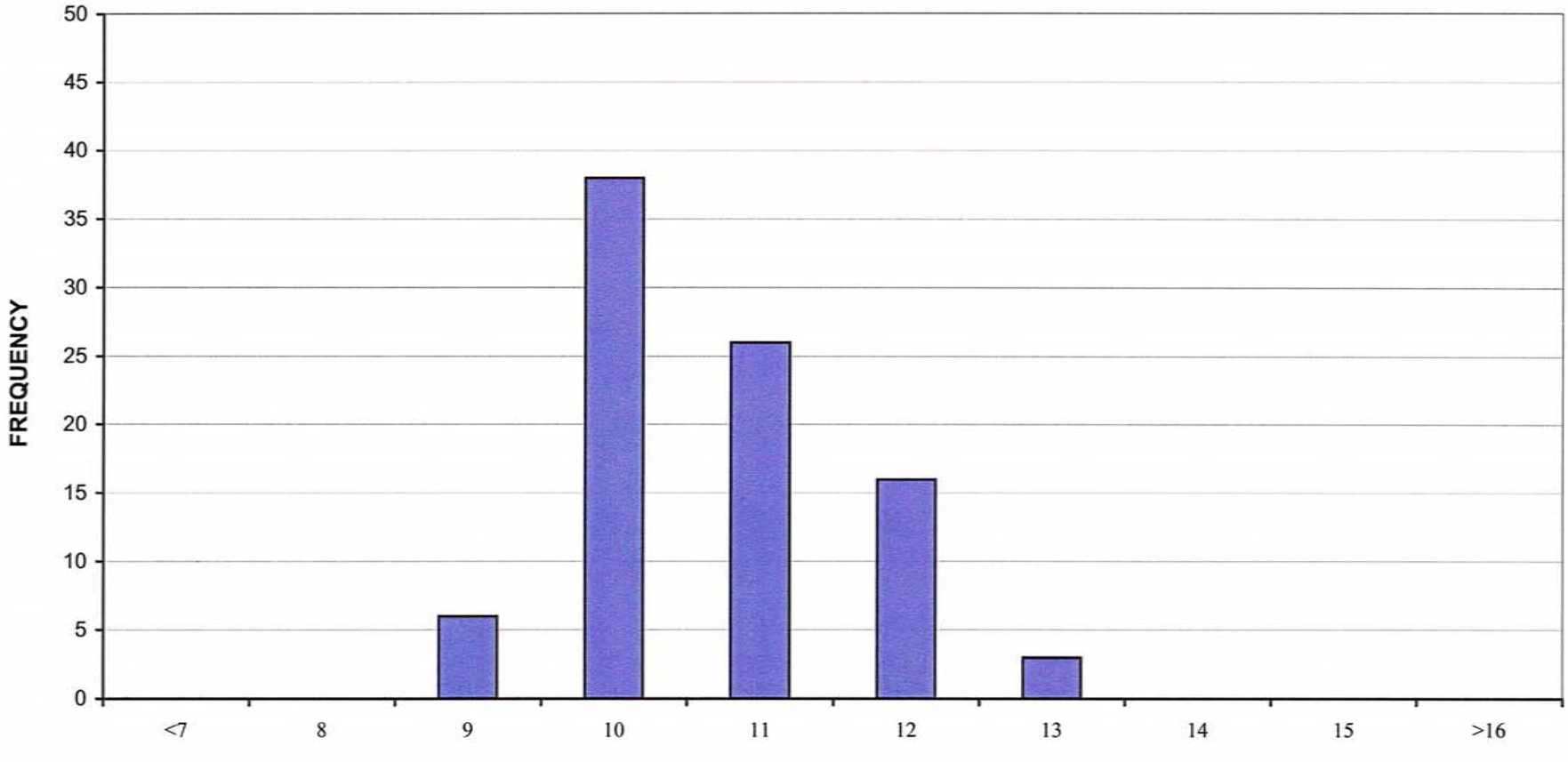

Notes:
1. The compacted moisture content was measured using a nuclear densometer.

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

FIELD MOISTURE CONTENT
SOIL LINER

Knight Piésold CONSULTING

PROJECT / ASSIGNMENT NO.	REF NO.
VA101-1/17	1

FIGURE 3.6

REV. 0

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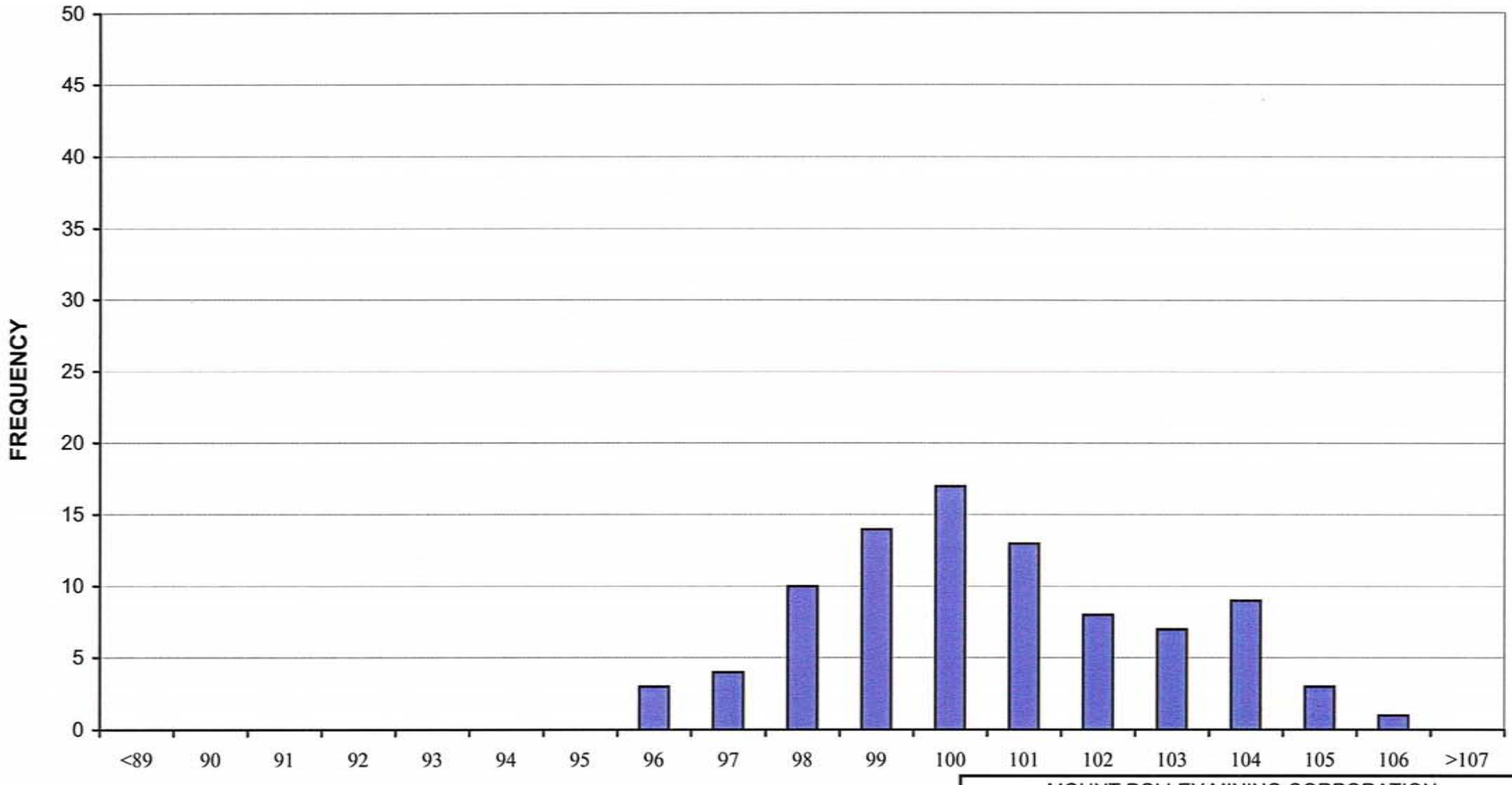

Notes:
1. The field dry density was measured using a nuclear densometer. The nuclear densometer test results compared to Zone S control and record tests for comparison.

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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

FIELD PERCENT COMPACTION
SOIL LINER

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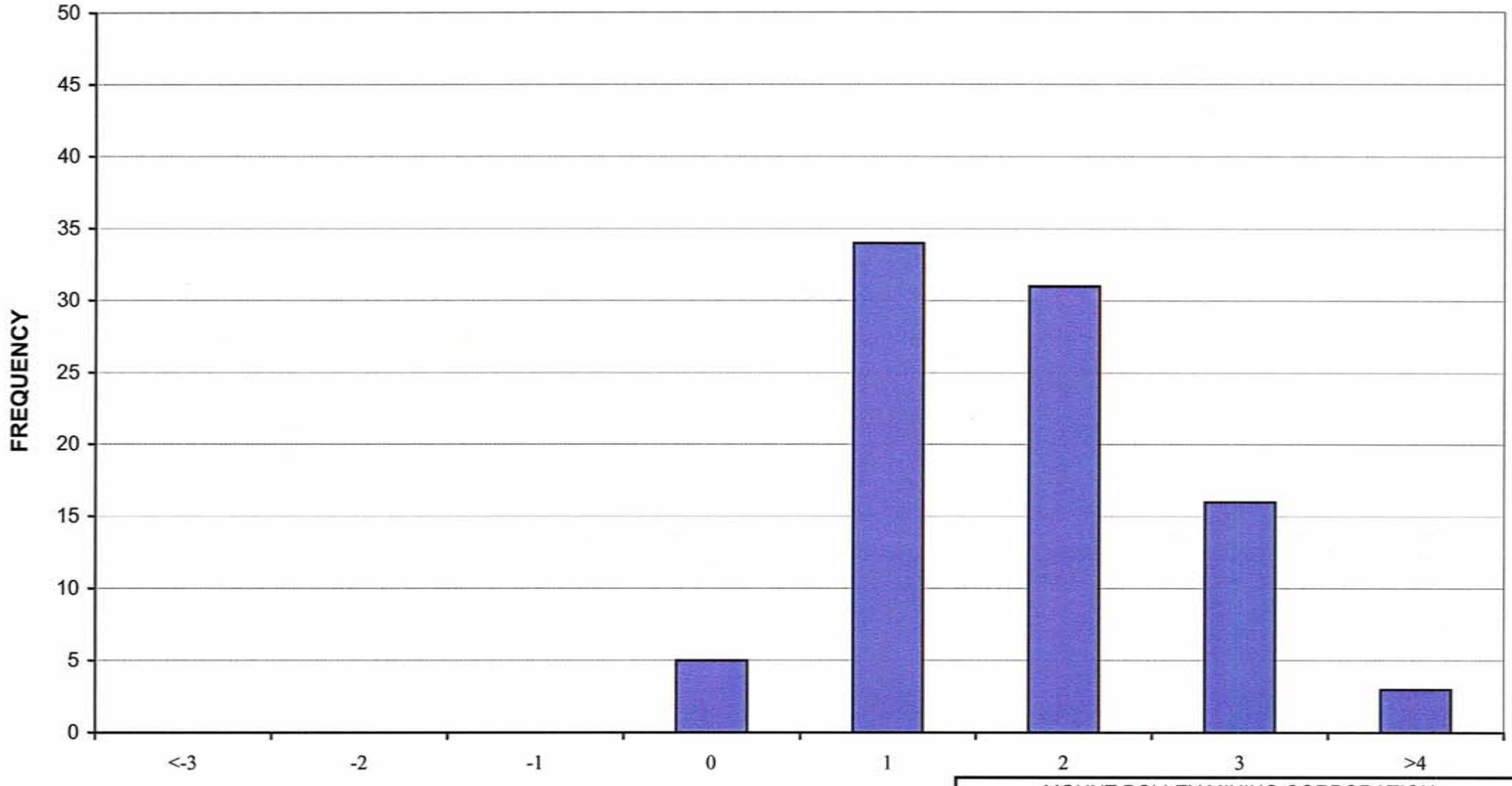
PROJECT / ASSIGNMENT NO.	REF NO.
VA101-1/17	1

FIGURE 3.7

REV. 0



Notes:
1. The Optimum Moisture Content refers to the Standard Proctor Optimum Moisture Content.
2. The compacted moisture content was measured using a nuclear densometer. The nuclear densometer test results compared to Standard Proctor Optimum Moisture Content for comparison.

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

FIELD PERCENT DEVIATION FROM OPTIMUM MOISTURE CONTENT SOIL LINER

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PROJECT / ASSIGNMENT NO. VA101-1/17

REF NO. 1

FIGURE 3.8

REV. 0

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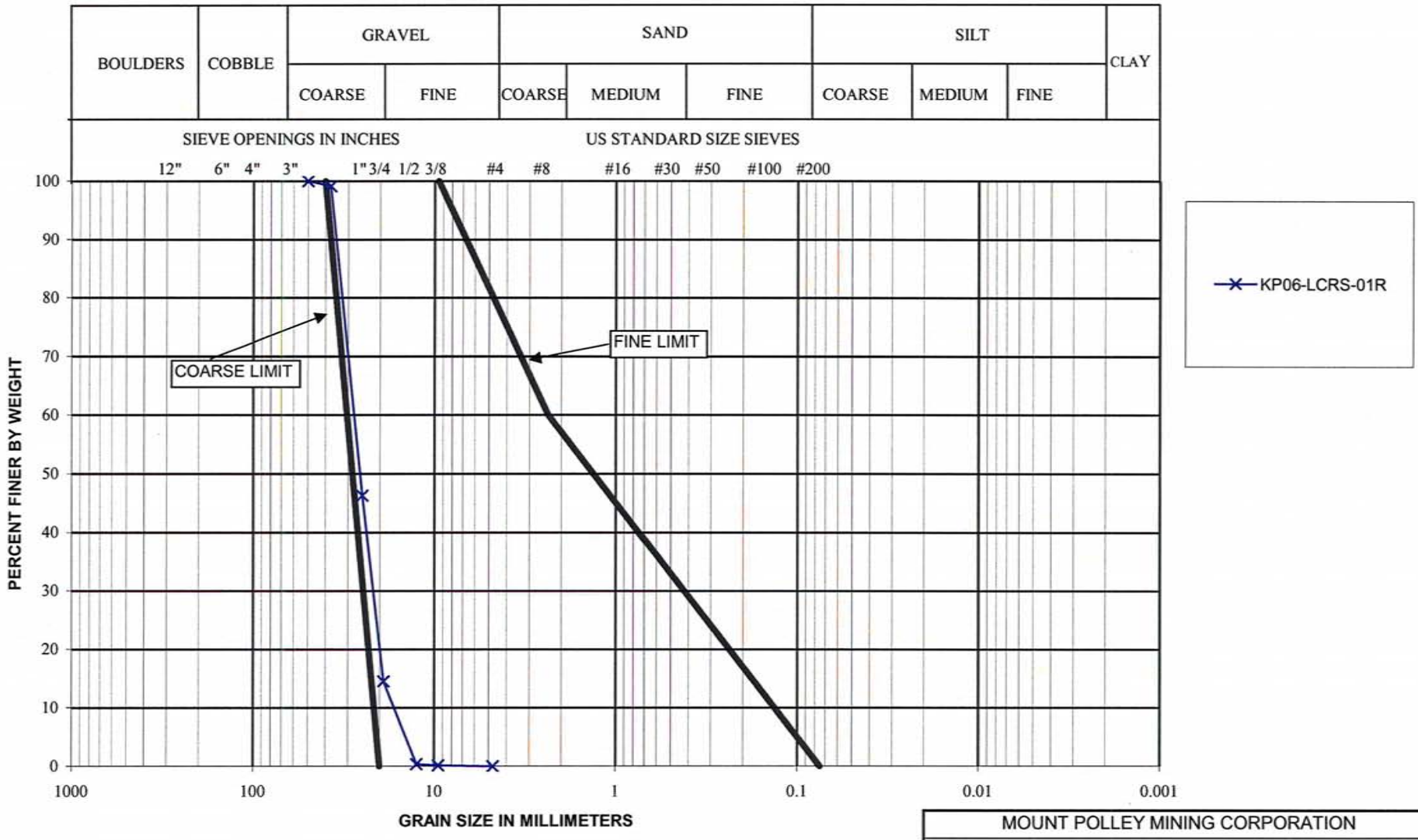

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

LCRS RECORD TESTS
PARTICLE SIZE ANALYSES

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PROJECT / ASSIGNMENT NO. VA101-1/17

REF NO. 1

FIGURE 3.9

REV. 0

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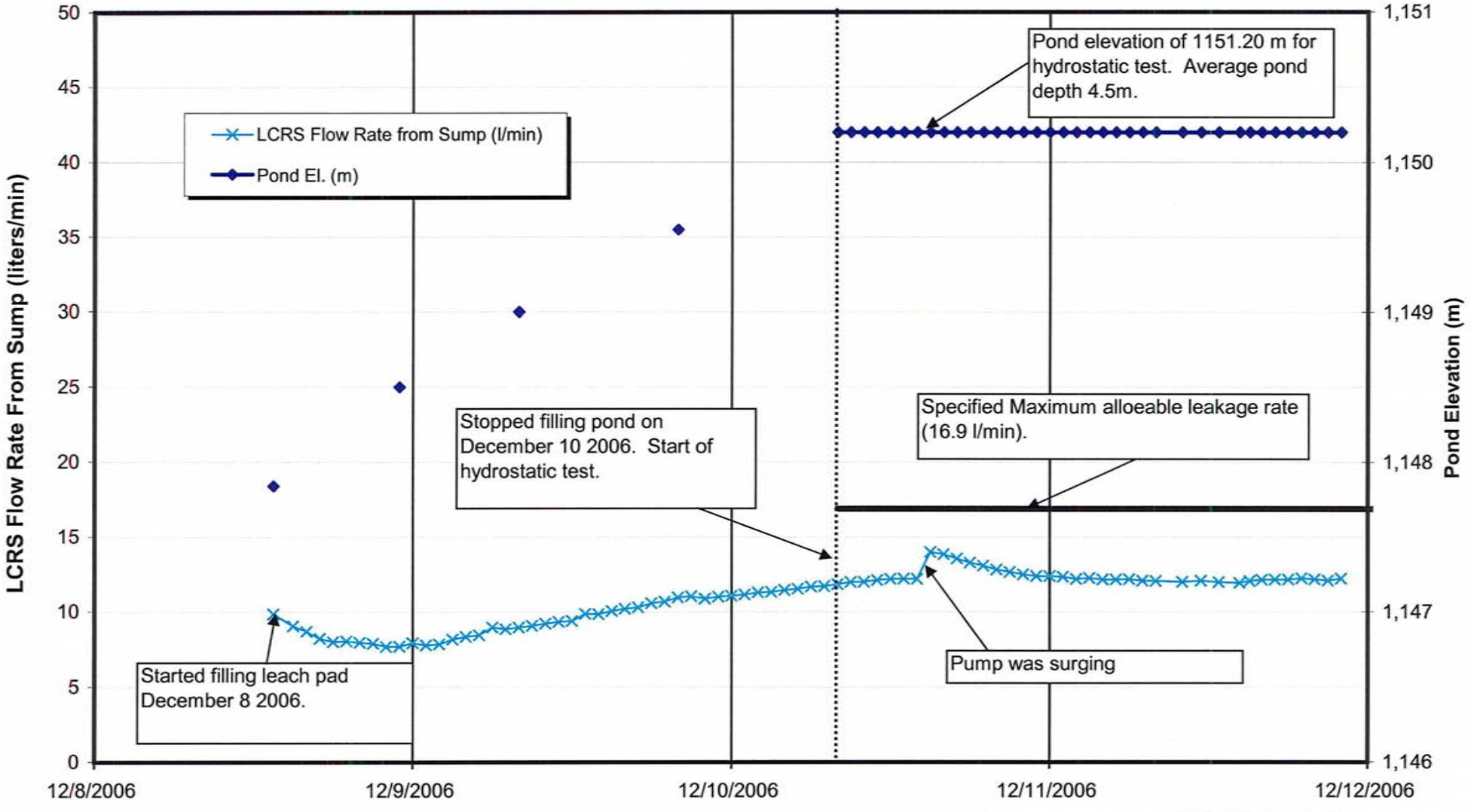

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TEST HEAP LEACH PAD
HYDROSTATIC TEST

Knight Piésold CONSULTING

PROJECT / ASSIGNMENT NO. VA101-1/17 | REF NO. 1

FIGURE 5.1 | REV. 0

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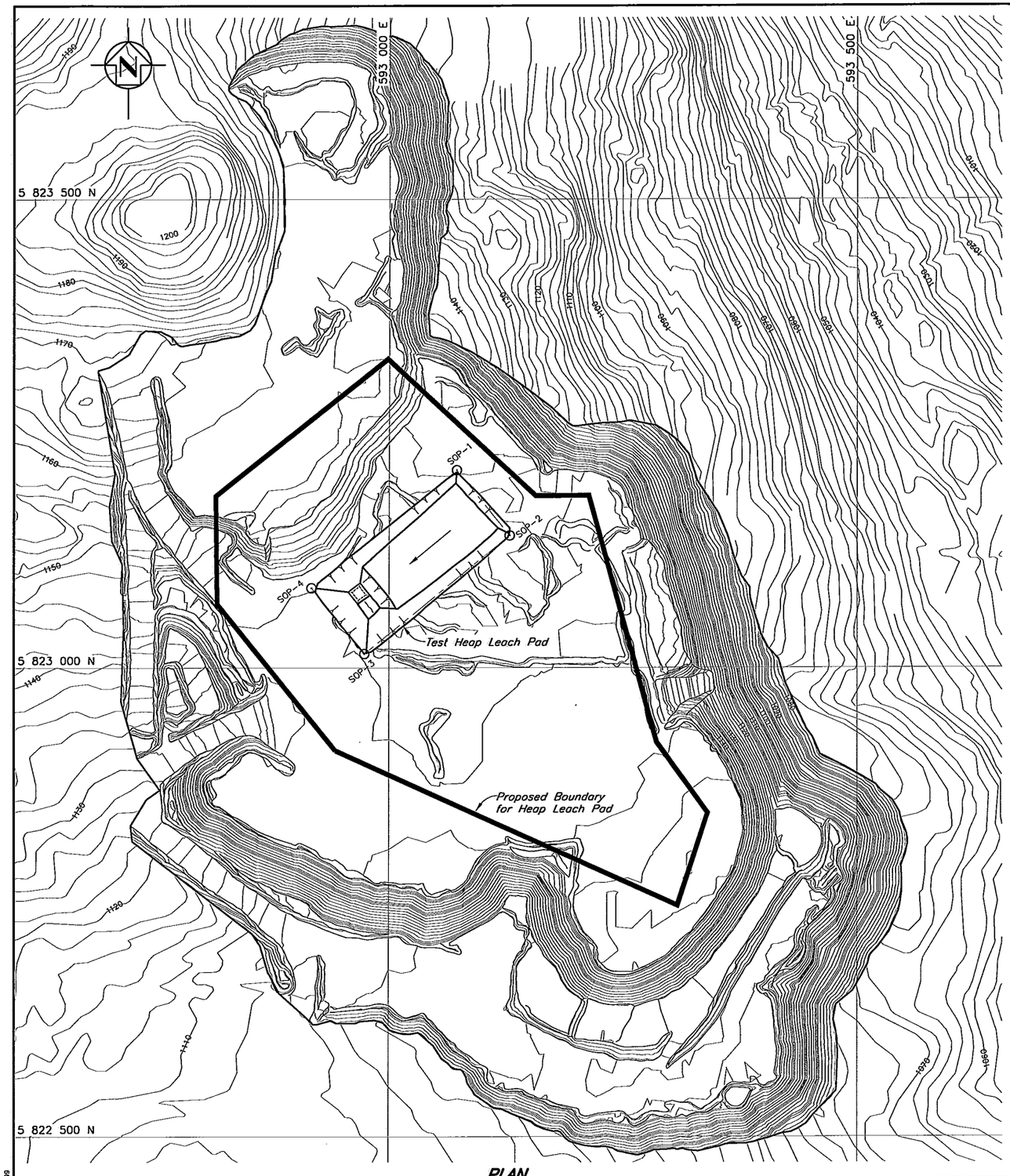
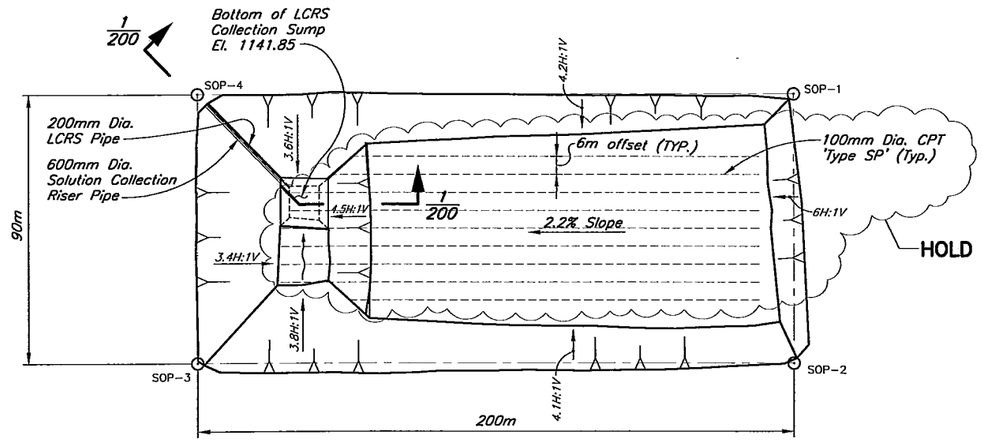


PLAN
Scale A



TEST HEAP LEACH PAD
Scale B

SETTING OUT POINTS			
I.D.	NORTHING	EASTING	ELEVATION
SOP-1	5 823 210.789	593 072.612	–
SOP-2	5 823 140.812	593 129.264	–
SOP-3	5 823 014.919	592 973.858	–
SOP-4	5 823 084.852	592 917.206	–

NOTES

1. *All contours shown in metres*
2. *Instrumentation shown on Drg. 300.*

B 20 0 20 40 60 80 100 m

A 50 0 50 100 150 200 250 m

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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TEST HEAP LEACH PAD
PLAN

PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
VA101-1/15	100	1

DRG. NO.	DESCRIPTION

REFERENCE DRAWINGS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D

REVISIONS

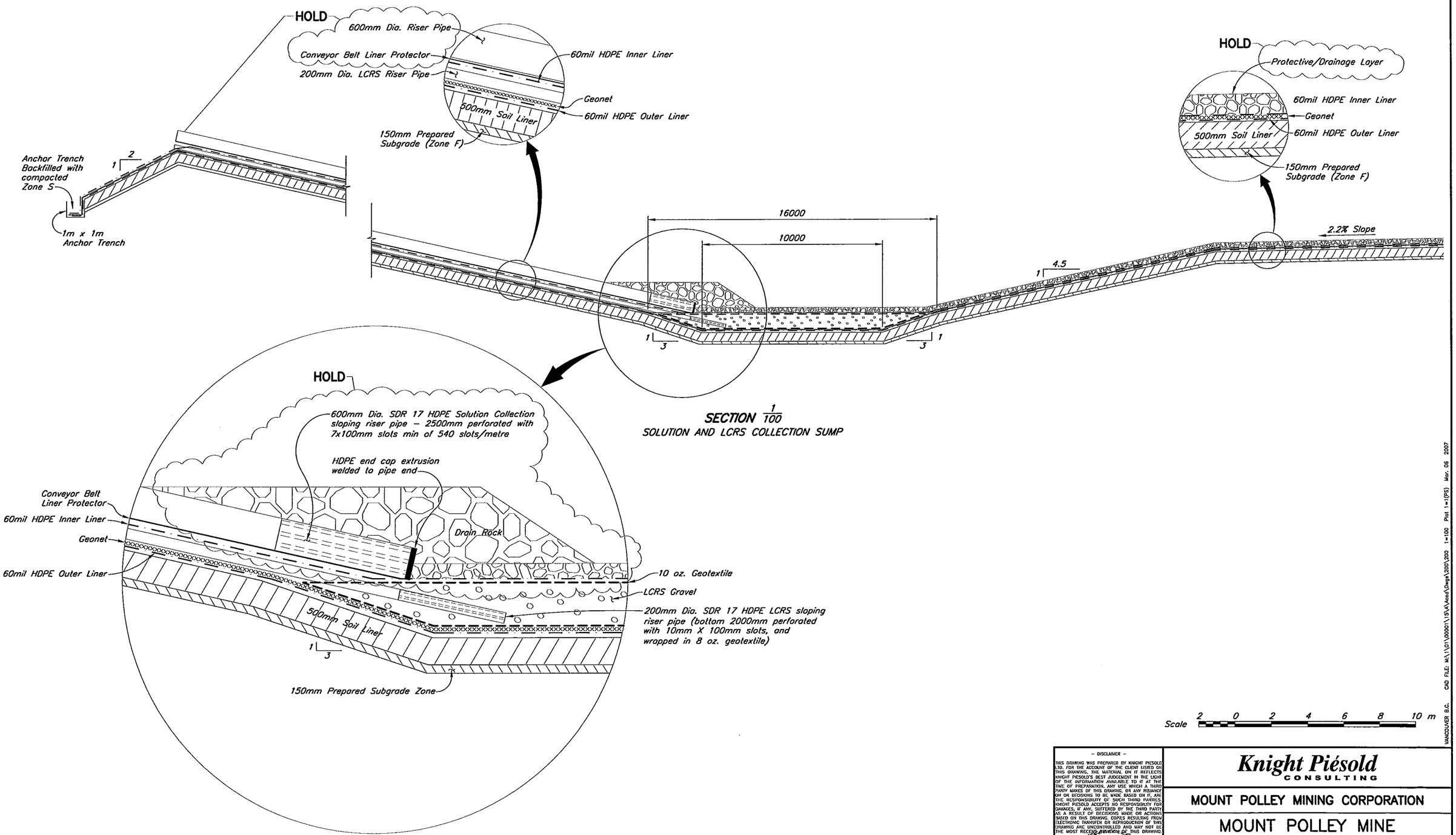
REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
1	09MAR'07	AS-BUILT	BB	JY/WAL	BB	KJB
0	11AUG'06	ISSUED FOR CONSTRUCTION	BB	JY	BG	KJB

REVISIONS

XREF FILE : topo99

CAD FILE: M:\1\01\00201\15\VA\Acad\Dwgs\100\100.DWG 1=1000 PLOT 1=1(DS) Mar. 7 2007 by WAL

VANCOUVER B.C.



SECTION 1/100
SOLUTION AND LCRS COLLECTION SUMP

Scale 2 0 2 4 6 8 10 m

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA
B. Borntraeger
Mar. 12, 2007

Knight Piésold CONSULTING

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TEST HEAP LEACH PAD SECTIONS AND DETAILS

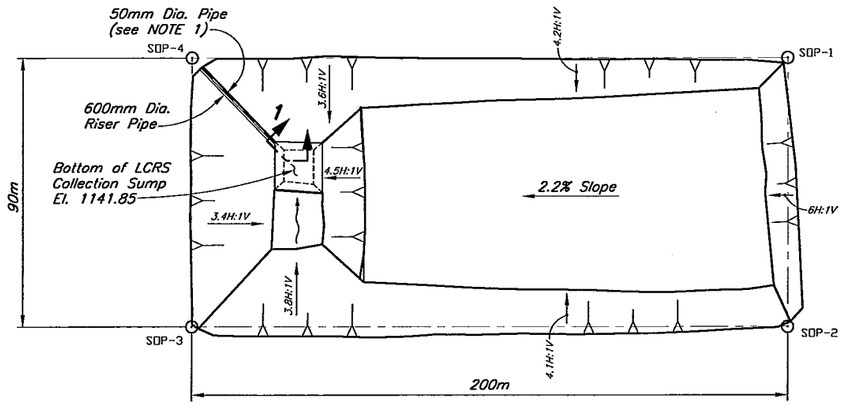
PROJECT/ASSIGNMENT NO. VA101-1/15 | DRAWING NO. 200 | REVISION 2

REFERENCE DRAWINGS	
DRG. NO.	DESCRIPTION
–	–

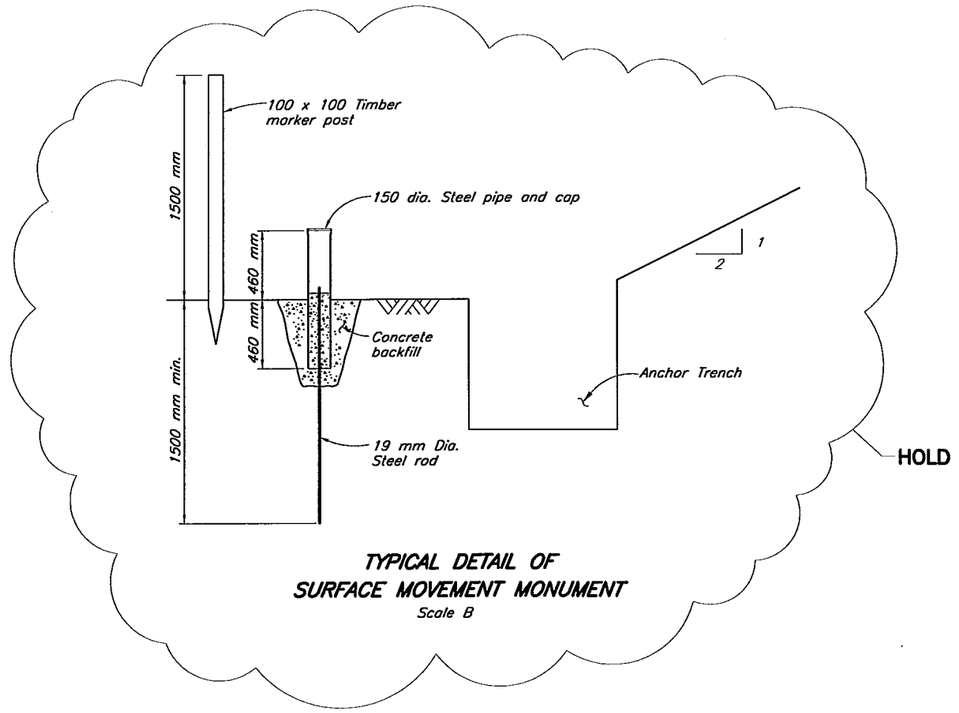
REVISIONS					
REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
2	09MAR'07	AS-BUILT	BB	TAM	BG	KJB
1	14SEP'06	ISSUED FOR CONSTRUCTION	BB	TAM	BG	KJB
0	11AUG'06	ISSUED FOR CONSTRUCTION	BB	JY	BG	KJB

XREF FILE: –

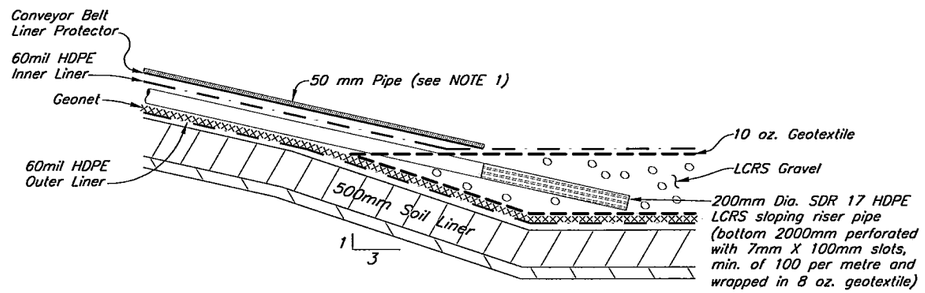
CAD FILE: M:\1\01\00001\15\A\Acad\Dwgs\200\200 1=100 Plot 1=1(PS) Mar. 08 2007 VANCOUVER B.C.



TEST HEAP LEACH PAD
Scale A



TYPICAL DETAIL OF
SURFACE MOVEMENT MONUMENT
Scale B



SECTION 1
Scale C

NOTES

1. Solution level monitoring 50 mm pipe with level sensor. Level sensor is pressure transducer type.
2. Surface Movement Monument to be located adjacent to Anchor Trench.

C 0.8 0 0.8 1.6 2.4 3.2 4.0 m

B 0.4 0 0.4 0.8 1.2 1.6 2.0 m

A 20 0 20 40 60 80 100 m

CAD FILE: M:\1\01\00001\15\A\Acad\Dwgs\300\300.dwg 1=1000 PLOT 1=1(PS) Mar. 7 2007 by:WAL
VANCOUVER B.C.

XREF FILE : -

DRG. NO.	DESCRIPTION
-	-

REFERENCE DRAWINGS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D

REVISIONS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
1	09MAR'07	AS-BUILT	BB	JY/WAL	BB	KJB
0	22AUG'06	ISSUED FOR CONSTRUCTION	BB	JY	BG	KJB

REVISIONS

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — B. Borntraeger — MAR 11, 2007

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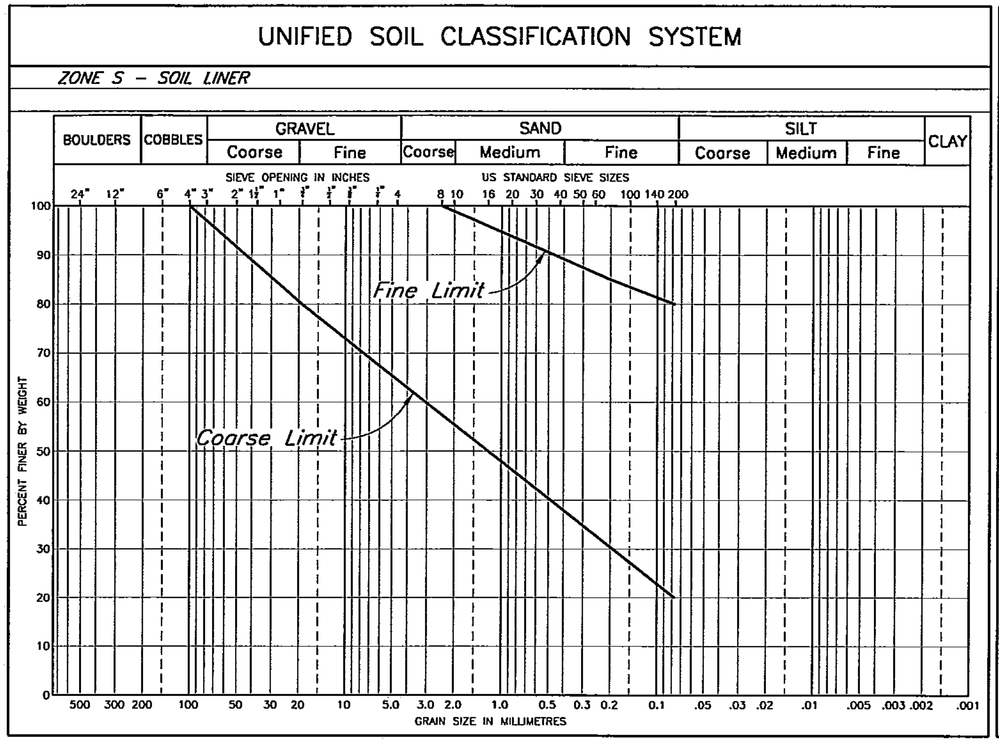
CONSULTING

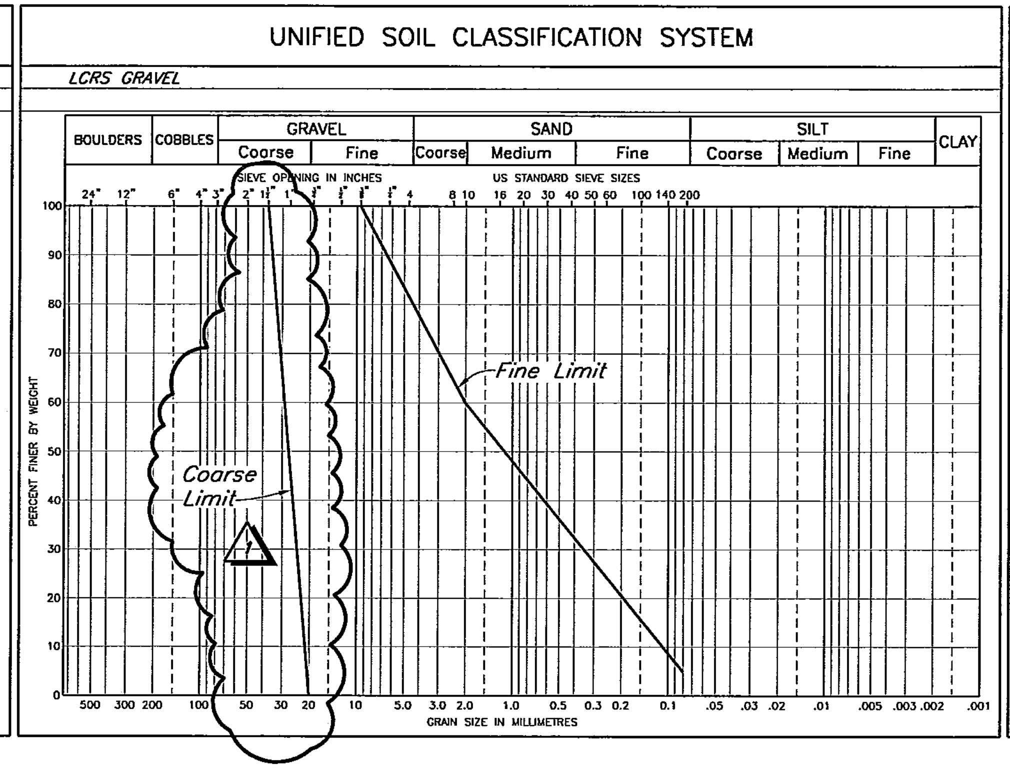
MOUNT POLLEY MINING CORPORATION

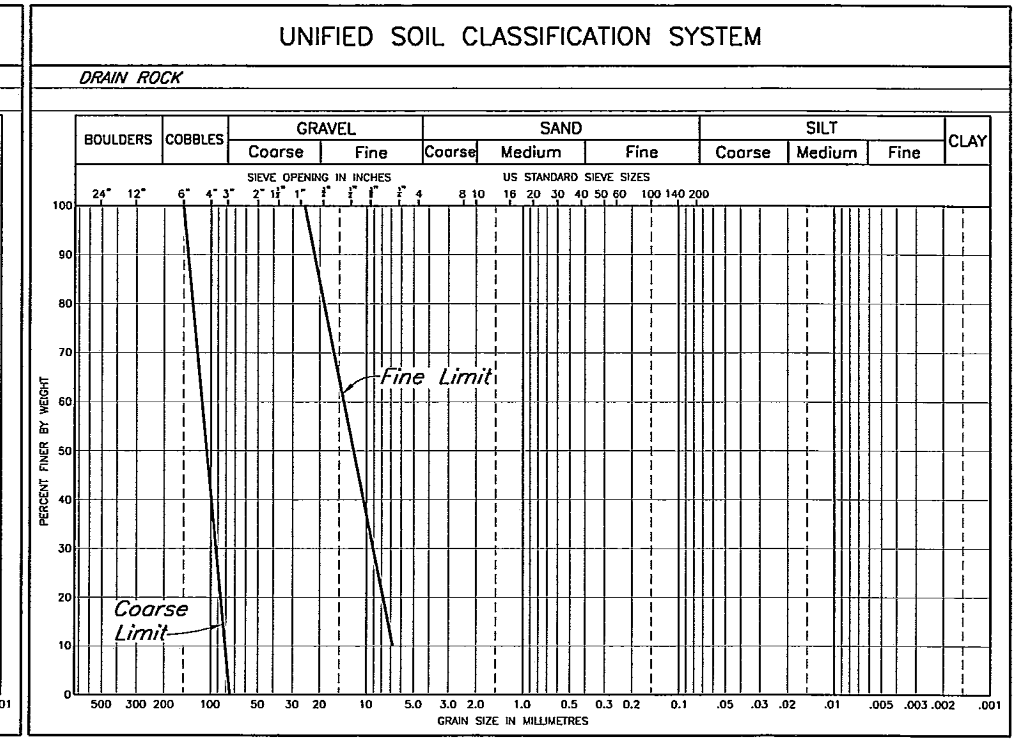
MOUNT POLLEY MINE

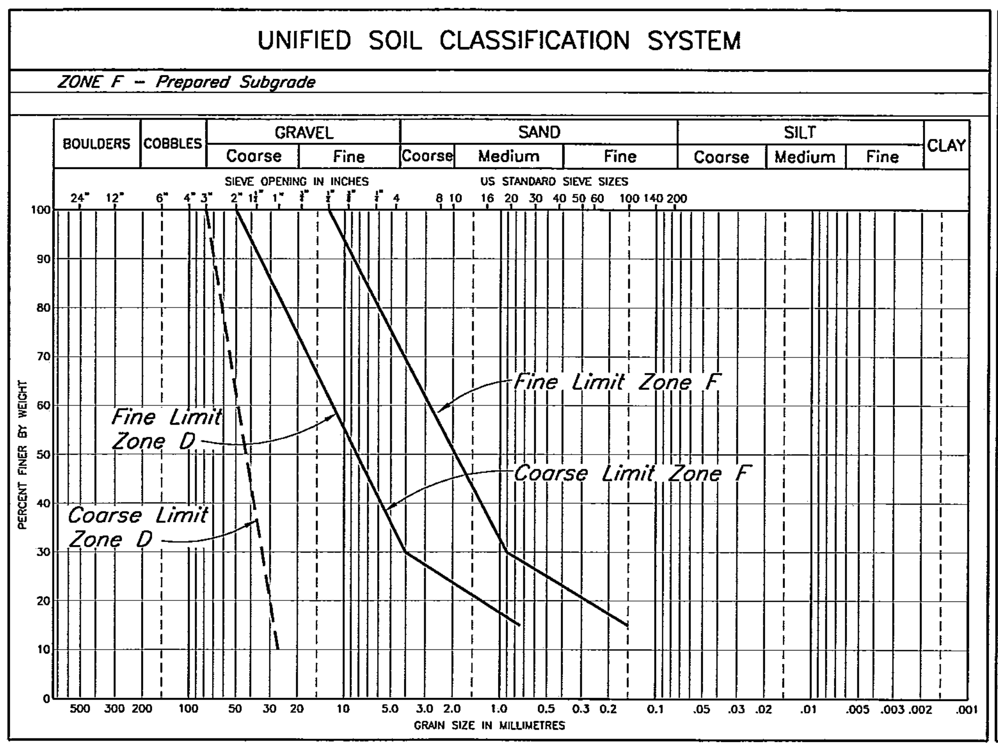
TEST HEAP LEACH PAD INSTRUMENTATION DETAILS

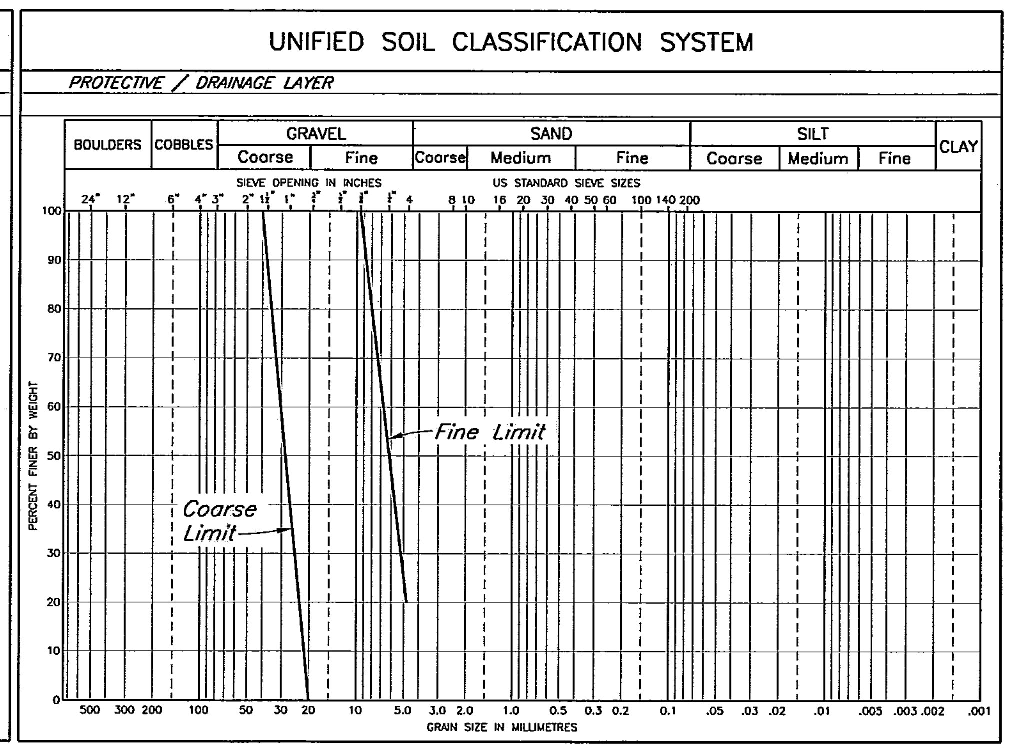
PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
VA101-1/15	300	1











ZONE	MATERIAL TYPE	LOCATION	PLACEMENT & COMPACTION REQUIREMENTS
S	*Glacial till*	*Pad Bottom and Side Slopes*	*Placed, moisture conditioned and spread in maximum 250 mm thick layers (after compaction). Vibratory compaction to 95% of Standard Proctor maximum dry density or as approved by the Engineer.*
F	*Filter sand*	*Prepared Subgrade*	*Placed and spread in maximum 150 mm thick layers and compacted with minimum 4 passes of 10 ton smooth drum vibratory roller, or as approved by the Engineer.*
LCRS	*Sand and Gravel*	*LCRS Sump*	*Placed and spread in maximum 1000 mm thick layer with nominal compaction.*
PDL	*Processed Ore or Waste Rock*	*Pad Bottom and Side Slopes*	*Placed and spread in maximum 500 mm thick layer.*
D	*Drain Rock*	*Riser Pipe*	*Processed from leach ore and placed around the 600 mm Riser Pipe and wrapped with geotextile.*

VANCOUVER B.C. CAD FILE: M:\1\01\00001\15\A\Acad\Dwgs\400\400 1=1000 Plot 1=1 Mar. 14, 2007

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March 12, 2007

Knight Piésold
CONSULTING

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TEST HEAP LEACH PAD
MATERIAL SPECIFICATIONS

PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
VA101-1/15	400	1

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
1	14MAR'07	AS-BUILT	LJG	TAM	BB	KJB
0	14SEP'06	ISSUED FOR CONSTRUCTION	BB	TAM	BG	KJB

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DRG. NO.	DESCRIPTION

REFERENCE DRAWINGS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D

REVISIONS

XREF FILE : -

Knight Piésold
CONSULTING

APPENDIX A

LABORATORY TEST RESULTS

(Pages A1 to A40)

1301 Kelliher Road Prince Geor[illegible], BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

ATTN: Ron Martel @ 250-790-2268

PROJECT NO. K 2036
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

PROJECT M.P. Construction Program Stage 4
Materials Testing

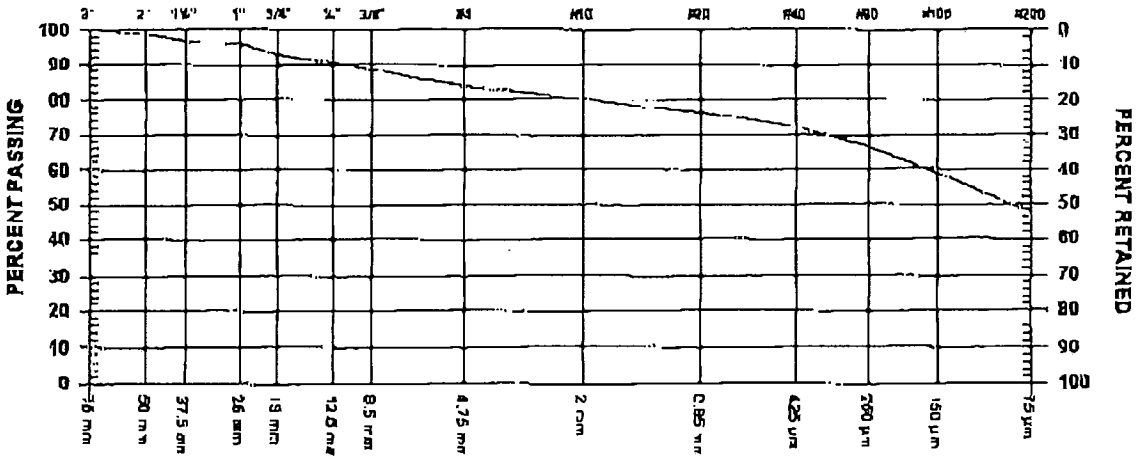
Mount Polley Mining Corp.
Likely

CONTRACTOR

SIEVE TEST NO. 3 DATE RECEIVED 2006.Jun.26 DATE TESTED 2006.Jun.29 DATE SAMPLED 2006.Jun.21

SUPPLIER
SOURCE KP06-ZS-01C, TP06-13
SPECIFICATION
MATERIAL TYPE TILL

SAMPLED BY CLIENT
TESTED BY BO
TEST METHOD WASHED



GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm	100.0	
2"	50 mm	98.7	
1 1/2"	37.5 mm	96.6	
1"	25 mm	95.7	
3/4"	19 mm	92.9	
1/2"	12.5 mm	90.2	
3/8"	9.5 mm	88.7	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	83.7	
No. 10	2.00 mm	80.0	
No. 20	850 µm	76.4	
No. 40	425 µm	72.4	
No. 60	250 µm	66.4	
No. 100	150 µm	58.7	
No. 200	75 µm	47.5	

COMMENTS

 2006.Jun.29 GeoNorth Engineering Ltd. PER

GeoNorth Engineering

Hydrometer Analysis

Test Designation: ASTM D-422

Client: Mount Polley Mining Corp. (Knight Piesold)				Date: July 5, 2006
Project Name: MPCP - Stage 4				Project #: K-2035
Source/Location: KP06-ZS-01C				Type: Till
Sample #:	Test #:	Hole #: TP06-13	Depth:	Time:
Sampled By: Client	Tested By: DJ			Checked By: NK
Date Sampled: 06.21.06	Date Received: 06.26.06			Date Tested: 07.04.06

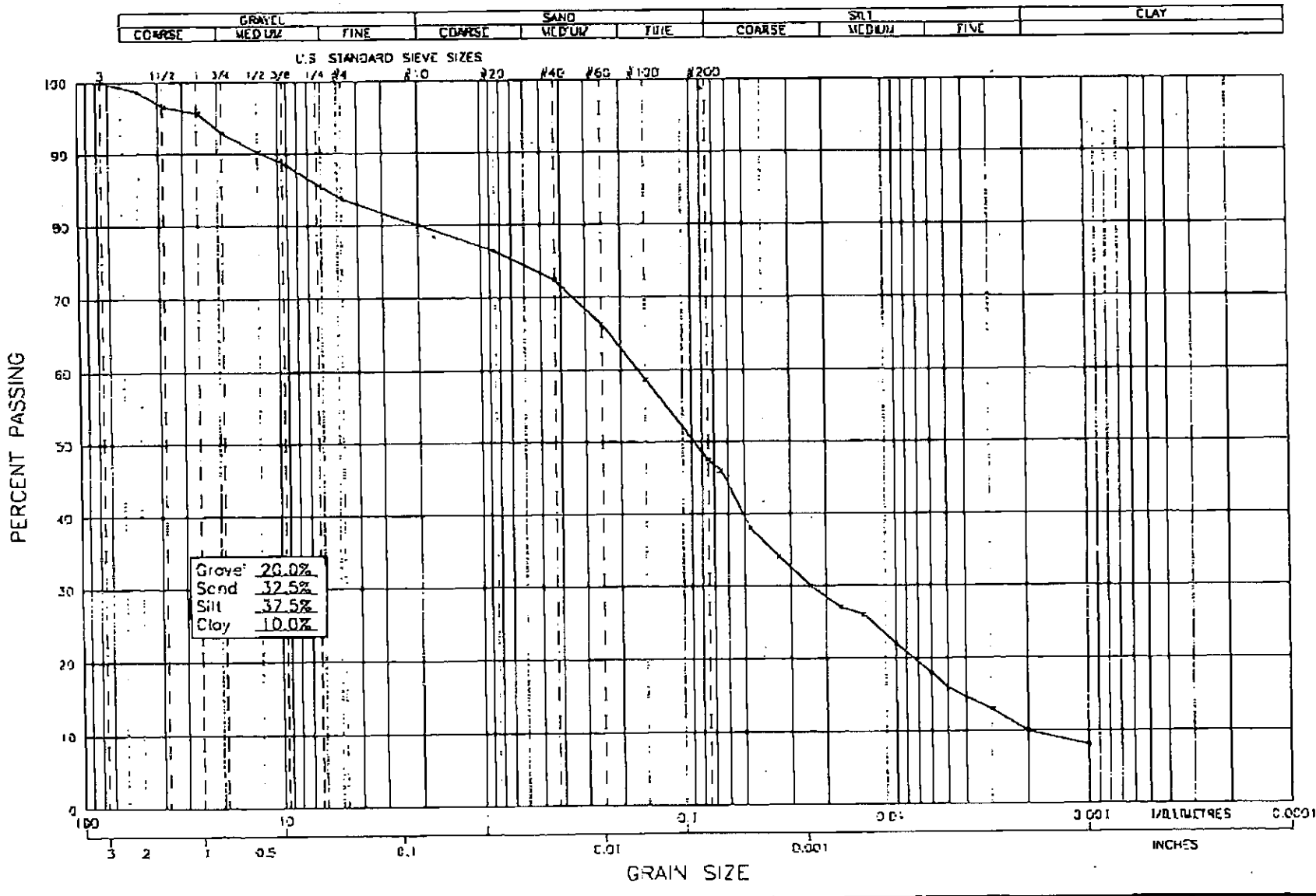
Starting Wt. (g)	% - #10	Elapsed Time (min)	Reading R	Temp (0C)	K	Corr. Reading R`	Zr (cm)	SQRT(Zr)/T (min)	D (mm)	N (%)	N*(%-#10)
40.0	0.800	0.5	23.0	24.0	0.01301				0.065	57.5	46.0
40.0	0.800	1	19.0	24.0	0.01301				0.047	47.5	38.0
40.0	0.800	2	17.0	24.0	0.01301				0.034	42.5	34.0
40.0	0.800	4	15.0	24.0	0.01301				0.024	37.5	30.0
40.0	0.800	8	13.5	24.0	0.01301				0.017	33.8	27.0
40.0	0.800	15	13.0	24.0	0.01301				0.013	32.5	26.0
40.0	0.800	30	11.0	24.0	0.01301				0.009	27.5	22.0
40.0	0.800	60	9.0	24.0	0.01301				0.006	22.5	18.0
40.0	0.800	120	8.0	24.0	0.01301				0.005	20.0	16.0
40.0	0.800	240	6.5	24.0	0.01301				0.003	16.3	13.0
40.0	0.800	480	5.0	24.0	0.01301				0.002	12.5	10.0
40.0	0.800	1440	4.0	24.0	0.01301				0.001	10.0	8.0

Hydrometer #: 794968	Graduale #: 1	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

Hydrometer Sieve Analysis				
Seive No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
10		40.0	100.0	80.0
20	1.7		95.8	76.6
40	2.0		90.8	72.6
60	3.0		83.3	66.6
100	2.8		76.3	61.0
200	2.8		69.3	55.4
Pan	27.7			
Total	40.0			
Unwashed Wt. =				
Tare =		Wt. Passing #200 =		

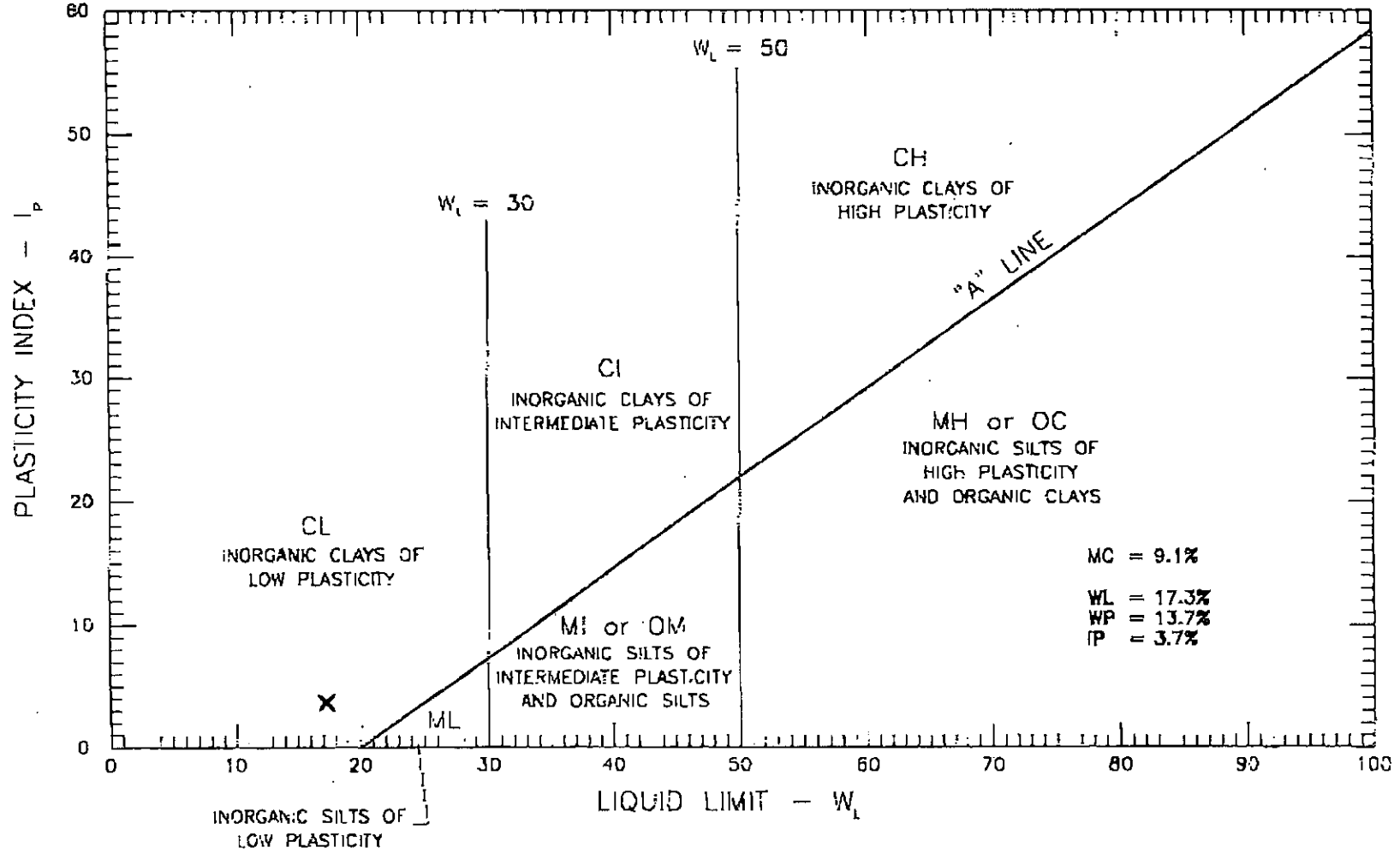
Sieve Analysis			
Seive No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.
38.1			
25.4			
19.0			
12.5			
9.5			
4.75			
10	SEE WASHED SIEVE RPT		
Total =			

Initial Moisture Content	
Tare No.	
Wet Wt. & Tare	
Dry Wt. & Tare	
Water Wt.	
Tare Wt.	
Wt. of Dry Soil	=W
Moisture Content	%
Dry Wt. of Sample from Initial Moisture	
=(100xWet Soil Wt.)/(100 + Initial Moisture) =	



GEONORTH ENGINEERING LTD. 1301 Kelther Road Prince George, B.C. V2L 5S8 Tel (250) 564-4304 Fax (250) 564-9323	MOUNT POLLEY MINING CORP. M.P. CONSTRUCTION PROGRAM STAGE 4 TAILINGS STORAGE FACILITY GRAIN SIZE ANALYSIS OF KP06-ZS-01C	SCALE: N.T.S.	DATE: 2006/07/05
		PROJECT NO: K-2036	DRAWING NO. 2036-B26

A3



GeoNorth Engineering Ltd. 1301 Kelliher Road Prince George, B.C. V2L 5S9 Tel. (250) 564-4304 Fax (250) 564-9323	MOUNT POLLEY MINING CORP. M.P. CONSTRUCTION PROGRAM STAGE 4 TAILINGS STORAGE FACILITY ATTERBERG LIMITS OF KP06-2S-01C	SCALE: N.T.S.	DATE: 2006/07/25
		PROJECT NO: K-2036	DRAWING NO. 2036-B23

A4

1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

RELATIONSHIP REPORT

PROJECT NO. K 2036
CLIENT Mount Polley Mining Corp. Attn:
c.c. Knight Piesold Consulting

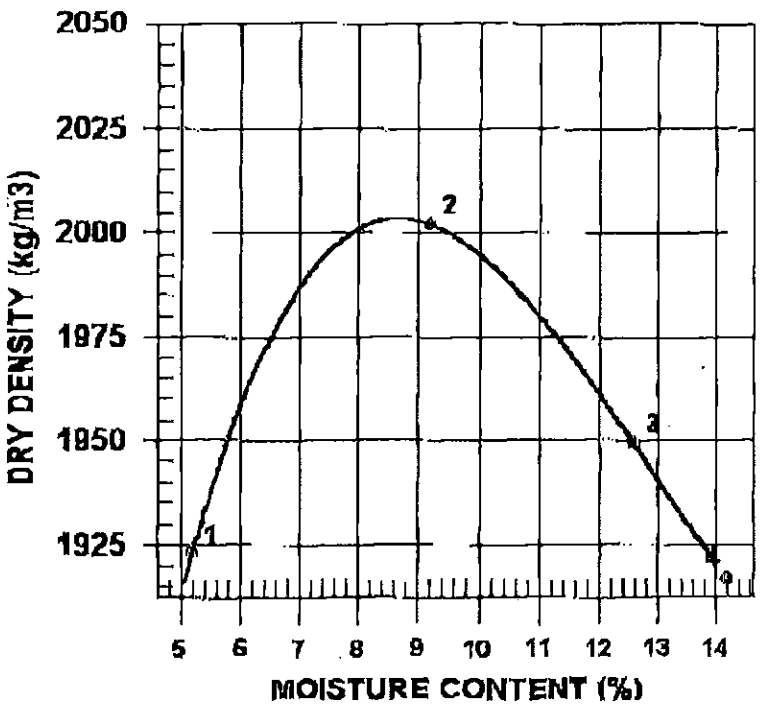
TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

ATTN: Ron Martel @ 250-790-2268

PROJECT M.P. Construction Program Stage 4 Materials Testing
CONTRACTOR Mount Polley Mining Corp. Likely

PROCTOR NO. 2 DATE TESTED 2006.Jun.29 DATE RECEIVED 2006.Jun.26 DATE SAMPLED 2006.Jun.21

INSITU MOISTURE	N/A %	COMPACTION STANDARD	Standard Proctor, ASTM D698
SAMPLED BY	CLIENT		
TESTED BY	HJ	COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
SUPPLIER			
SOURCE	KP06-ZS-01C, TP06-13	RAMMER TYPE	Manual
MATERIAL IDENTIFICATION		PREPARATION	Moist
MAJOR COMPONENT	TILL	OVERSIZE CORRECTION METHOD	ASTM 4718
SIZE		RETAINED 4.75mm SCREEN	16.1 %
DESCRIPTION		OVERSIZE SPECIFIC GRAVITY	2.67
ROCK TYPE		TOTAL NUMBER OF TRIALS	4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2023	1923	5.2
2	2186	2002	9.2
3	2195	1949	12.6
4	2189	1917	14.2

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2000	9.0
OVERSIZE CORRECTED	2080	7.5

COMMENTS

 2006.Jun.29 GeoNorth Engineering Ltd. PER,

1301 Kelliher Road Prince Geo[illegible], BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

10 20 40 60 SERIES

PROJECT NO. K 2036
CLIENT Mount Polley Mining Corp. Attn:
c.c. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

ATTN: Ron Martel @ 250-790-2268

PROJECT M.P. Construction Program Stage 4
Materials Testing

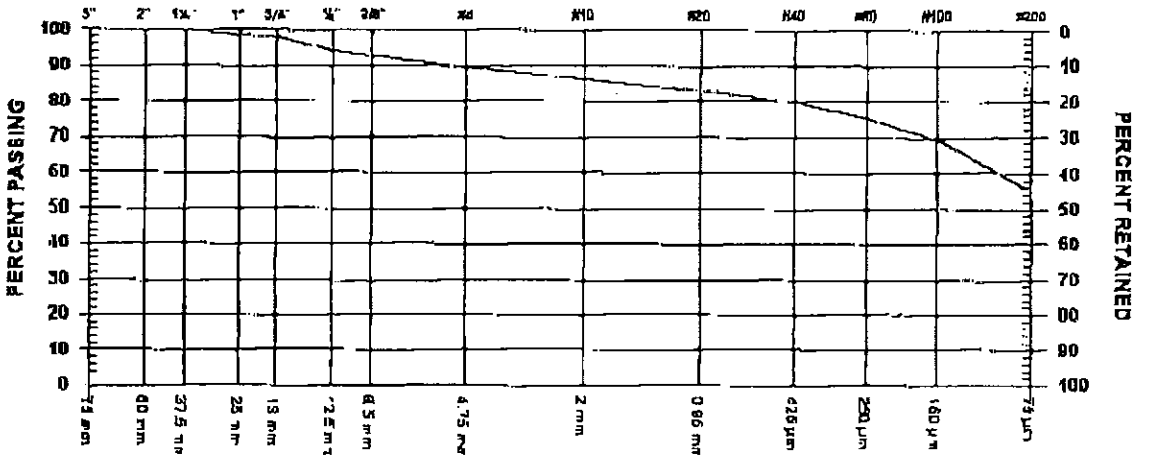
Mount Polley Mining Corp.
Likely

CONTRACTOR

SIEVE TEST NO. 4 DATE RECEIVED 2006.Jun.26 DATE TESTED 2006.Jun.29 DATE SAMPLED 2006.Jun.21

SUPPLIER
SOURCE KP06-ZS-02C, TP06-15
SPECIFICATION
MATERIAL TYPE TILL

SAMPLED BY CLIENT
TESTED BY BO
TEST METHOD WASHED



GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm		
2"	50 mm		
1 1/2"	37.5 mm	100.0	
1"	25 mm	98.8	
3/4"	19 mm	97.7	
1/2"	12.5 mm	94.3	
3/8"	9.5 mm	92.7	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	89.2	
No. 10	2.00 mm	85.9	
No. 20	850 µm	82.9	
No. 40	425 µm	79.8	
No. 60	250 µm	75.4	
No. 100	150 µm	69.3	
No. 200	75 µm	54.9	

COMMENTS

Page 1 of 1 2006.Jun.29 GeoNorth Engineering Ltd. PER.

GeoNorth Engineering

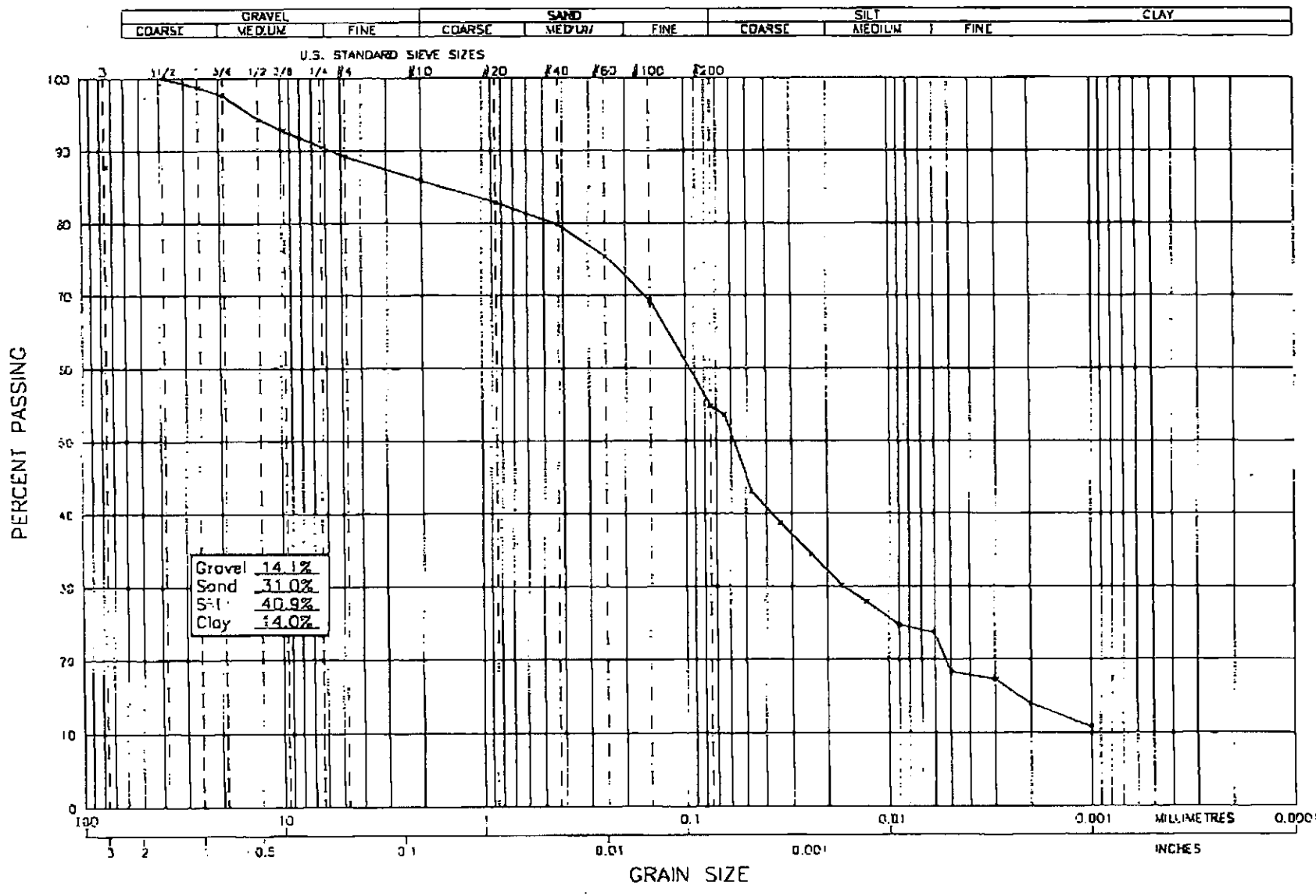
Hydrometer Analysis

Test Designation: ASTM D-422

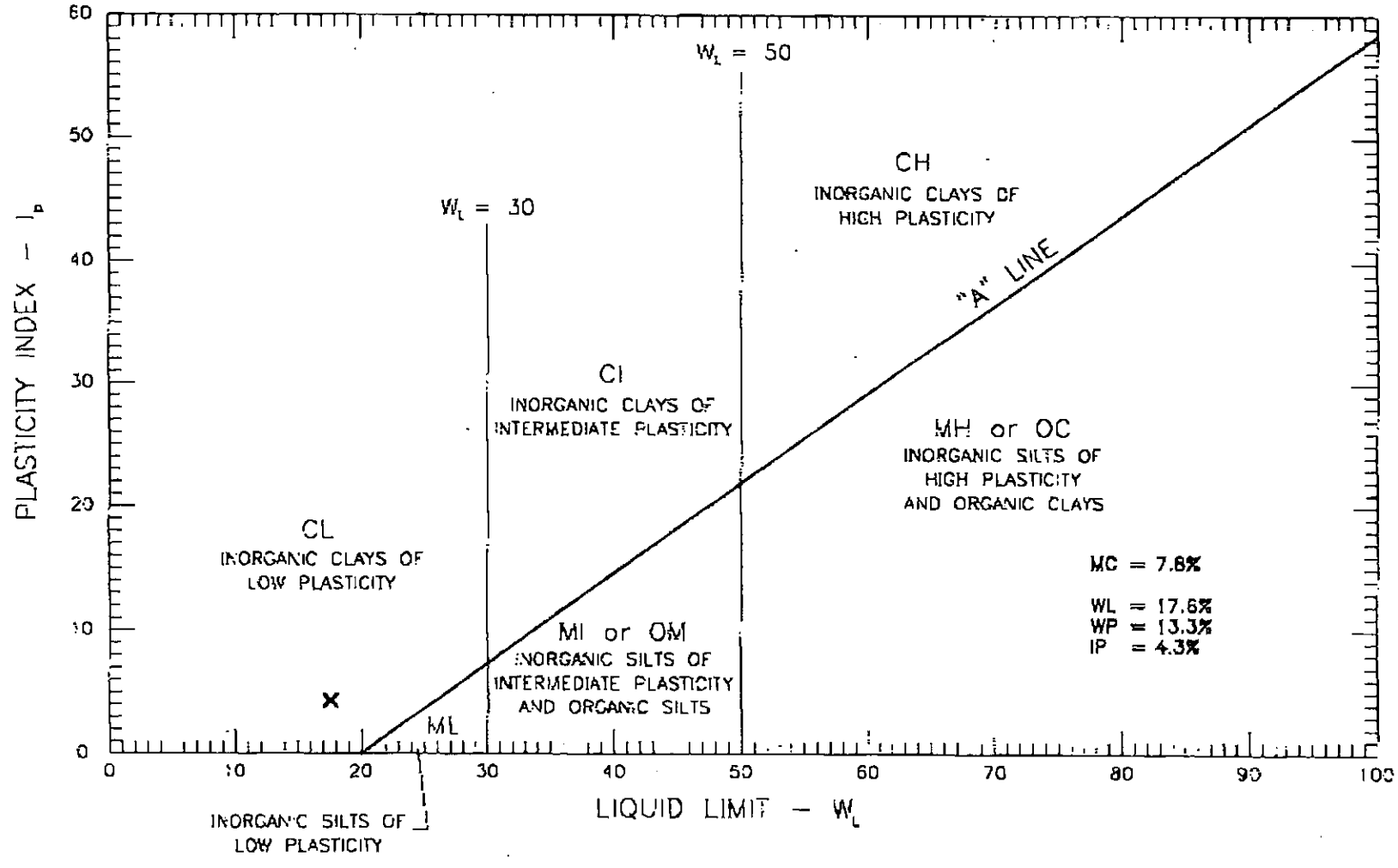
Client: Mount Polley Mining Corp. (Knight Piesold)									Date: July 5, 2006		
Project Name: MPCP - Stage 4									Project #: K-2036		
Source/Location: KP06-ZS-02C									Type: Till		
Sample #:		Test #:		Hole #: TP06-15		Depth:			Time:		
Sampled By: Client		Tested By: DJ							Checked By: NK		
Date Sampled: 06.21.06		Date Received: 06.26.06							Date Tested: 07.04.06		
Starting Wt. (g)	% - #10	Elapsed Time (min)	Reading R	Temp (0C)	K	Corr. Reading R'	Zr (cm)	SQRT(Zr)/T (min)	D (mm)	N (%)	N*(%-#10)
40.0	0.859	0.5	25.0	24.0	0.01301				0.064	62.5	53.7
40.0	0.859	1	20.0	24.0	0.01301				0.047	50.0	43.0
40.0	0.859	2	18.0	24.0	0.01301				0.034	45.0	38.7
40.0	0.859	4	16.0	24.0	0.01301				0.024	40.0	34.4
40.0	0.859	8	14.0	24.0	0.01301				0.017	35.0	30.1
40.0	0.859	15	13.0	24.0	0.01301				0.013	32.5	27.9
40.0	0.859	30	11.5	24.0	0.01301				0.009	28.8	24.7
40.0	0.859	60	11.0	24.0	0.01301				0.006	27.5	23.6
40.0	0.859	120	8.5	24.0	0.01301				0.005	21.3	18.3
40.0	0.859	240	8.0	24.0	0.01301				0.003	20.0	17.2
40.0	0.859	480	6.5	24.0	0.01301				0.002	16.3	14.0
40.0	0.859	1440	5.0	24.0	0.01301				0.001	12.5	10.7
Hydrometer #: 794968			Graduate #: 2			Dispersing Agent: Sodium Hex				Amount: 125ml	
Density of Solids:											
Description of Sample:											

Hydrometer Sieve Analysis					Sieve Analysis				Initial Moisture Content	
Seive No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.	Seive No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.		
10		40.0	100.0	85.9	38.1				Tare No.	
20	1.3		96.8	83.2	25.4				Wet Wt. & Tare	
40	1.6		92.8	79.7	19.0				Dry Wt. & Tare	
60	1.8		88.3	75.8	12.5				Water Wt.	
100	2.4		82.3	70.7	9.5				Tare Wt.	
200	3.4		73.8	63.4	4.75				Wt. of Dry Soil	=W
Pan	29.5				10	SEE WASHED SIEVE RPT			**Moisture Content**	%
Total	40.0								Dry Wt. of Sample from Initial Moisture	
Unwashed Wt. =									=(100xWet Soil Wt.)/(100 + Initial Moisture) =	
Tare =		Wt. Passing #200 =			Total =					

NGELOS



GEONORTH ENGINEERING LTD. 1301 Kelliher Road Prince George, B.C. V2L 5S8 Tel. (250) 561-4304 Fax (250) 561-9323	MOUNT POLLEY MINING CORP. M.P. CONSTRUCTION PROGRAM STAGE 4 TAILINGS STORAGE FACILITY GRAIN SIZE ANALYSIS OF KP06-ZS-02C, TP06-15	SCALE: N.T.S.	DATE: 2006/07/05
		PROJECT NO: K-2035	DRAWING NO. 2035-327



GeoNorth Engineering Ltd. 1301 Kelliher Road Prince George, B.C. V2L 5S8 Tel. (250) 564-4304 Fax (250) 564-9323	MOUNT POLLEY MINING CORP. M.P. CONSTRUCTION PROGRAM STAGE 4 TAILINGS STORAGE FACILITY ATTERBERG LIMITS OF KP06-ZS-02C	SCALE: N.T.S.	DATE: 2006/07/05
		PROJECT NO: K-2036	DRAWING NO. 2036-824

1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

RELATIONSHIP REPORT

PROJECT NO. K 2036
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

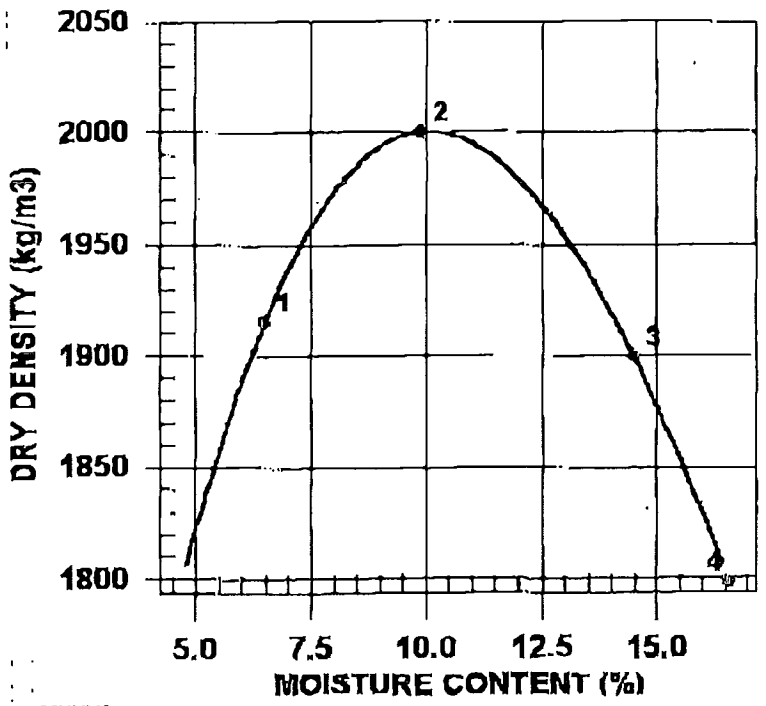
TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Marlol @ 250-790-2268

PROJECT M.P. Construction Program Stage 4 Materials Testing — Mount Polley Mining Corp. Likely
CONTRACTOR

PROCTOR NO. 3 DATE TESTED 2006.Jun.29 DATE RECEIVED 2006.Jun.26 DATE SAMPLED 2006.Jun.21

INSITU MOISTURE	N/A %	COMPACTION STANDARD	Standard Proctor, ASTM D698
SAMPLED BY	CLIENT		
TESTED BY	HJ	COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
SUPPLIER			
SOURCE	KP06-MS-02C, TP06-15	RAMMER TYPE	Manual
MATERIAL IDENTIFICATION		PREPARATION	Moist
MAJOR COMPONENT	TILL	OVERSIZE CORRECTION METHOD	ASTM 4718
SIZE		RETAINED 4.75mm SCREEN	10.6 %
DESCRIPTION		OVERSIZE SPECIFIC GRAVITY	2.67
ROCK TYPE		TOTAL NUMBER OF TRIALS	4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2039	1915	6.5
2	2198	2000	9.9
3	2174	1899	14.5
4	2097	1798	16.6

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2000	10.0
OVERSIZE CORRECTED	2060	9.0

COMMENTS

 2006.Jun.29 GeoNorth Engineering Ltd. PER.

1301 Kelliher Road Prince Geo. BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

10 20 40 60 SERIES

PROJECT NO. K 2036
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

ATTN: Ron Martel @ 250-790-2268

PROJECT M.P. Construction Program Stage 4
Materials Testing

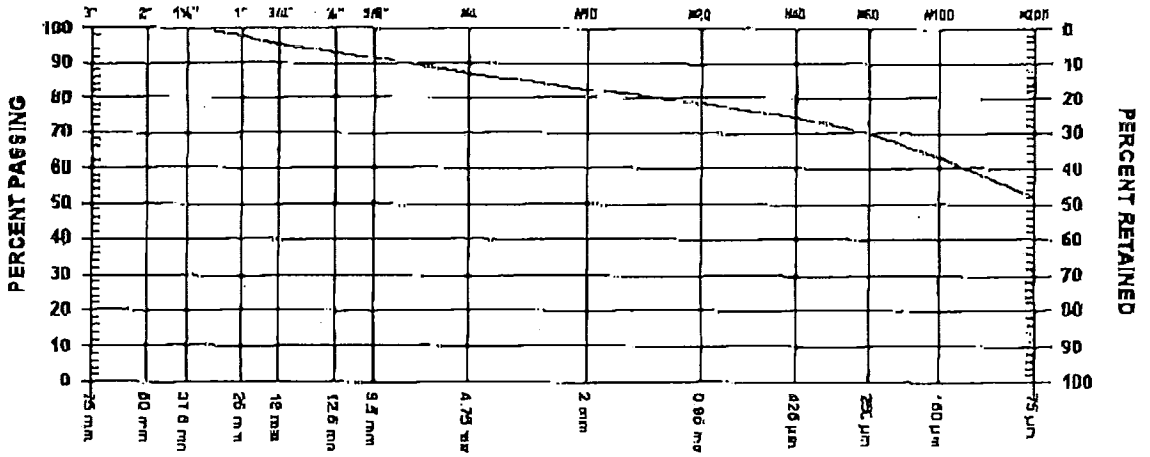
Mount Polley Mining Corp.
Likely

CONTRACTOR

SIEVE TEST NO. 5 DATE RECEIVED 2006.Jun.26 DATE TESTED 2006.Jun.29 DATE SAMPLED 2006.Jun.21

SUPPLIER
SOURCE KP06-ZS-03C, TP06-16
SPECIFICATION
MATERIAL TYPE TILL

SAMPLED BY CLIENT
TESTED BY BO
TEST METHOD WASHED



GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm		
2"	50 mm		
1 1/2"	37.5 mm	100.0	
1"	25 mm	97.9	
3/4"	19 mm	95.5	
1/2"	12.5 mm	93.0	
3/8"	9.5 mm	91.4	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	86.9	
No. 10	2.00 mm	82.1	
No. 20	850 µm	78.5	
No. 40	425 µm	74.7	
No. 60	250 µm	69.7	
No. 100	150 µm	63.2	
No. 200	75 µm	51.8	

COMMENTS

Page 1 of 1 2006.Jun.29 GeoNorth Engineering Ltd. PER

GeoNorth Engineering

Hydrometer Analysis

Test Designation: ASTM D-422

Client: Mount Polley Mining Corp. (Knight Piesold)				Date: July 5, 2006
Project Name: MPCP - Stage 4				Project #: K-2036
Source/Location: KP06-Z5-03C				Type: Till
Sample #:	Test #:	Hole #: TP06-16	Depth:	Time:
Sampled By: Client	Tested By: DJ			Checked By: NK
Date Sampled: 06.21.06	Date Received: 06.26.06			Date Tested: 07.04.06

Starting Wt. (g)	% - #10	Elapsed Time (min)	Reading R	Temp (0C)	K	Corr. Reading R`	Zr (cm)	SQRT(Zr)/T (min)	D (mm)	N (%)	N*(%-#10)
40.0	0.824	0.5	24.5	24.0	0.01301				0.065	61.3	50.5
40.0	0.824	1	20.0	24.0	0.01301				0.047	50.0	41.2
40.0	0.824	2	19.0	24.0	0.01301				0.033	47.5	39.1
40.0	0.824	4	17.0	24.0	0.01301				0.024	42.5	35.0
40.0	0.824	8	16.0	24.0	0.01301				0.017	40.0	33.0
40.0	0.824	15	13.5	24.0	0.01301				0.013	33.8	27.9
40.0	0.824	30	12.5	24.0	0.01301				0.009	31.3	25.8
40.0	0.824	60	11.5	24.0	0.01301				0.006	28.8	23.7
40.0	0.824	120	10.0	24.0	0.01301				0.005	25.0	20.6
40.0	0.824	240	8.5	24.0	0.01301				0.003	21.3	17.6
40.0	0.824	480	7.0	24.0	0.01301				0.002	17.5	14.4
40.0	0.824	1440	6.0	24.0	0.01301				0.001	15.0	12.4

Hydrometer #: 794968	Graduate #: 3	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

Hydrometer Sieve Analysis

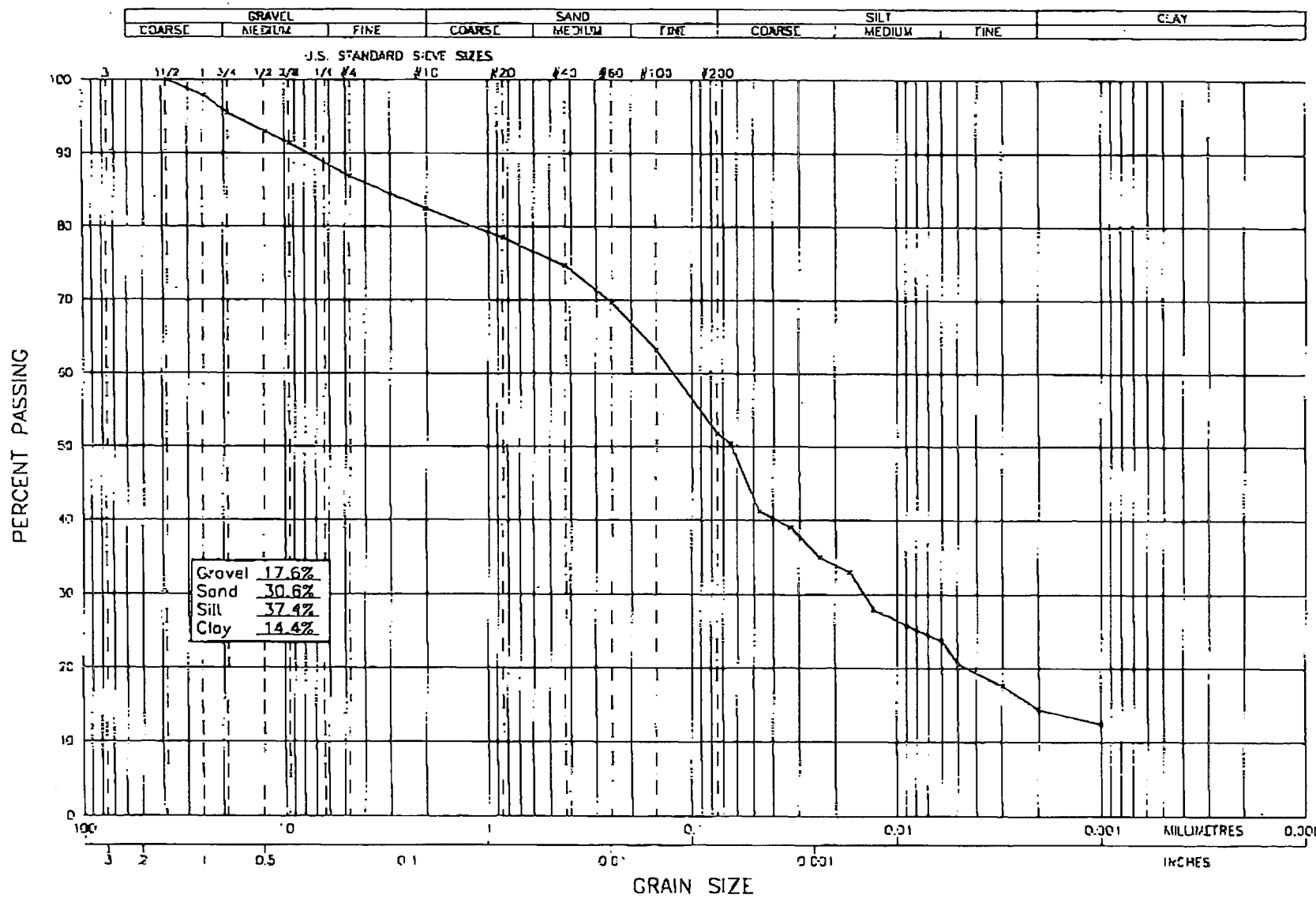
Seive No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
10		40.0	100.0	82.4
20	1.7		95.8	78.9
40	1.8		91.3	75.2
60	2.6		84.8	69.9
100	2.7		78.0	64.3
200	2.9		70.8	58.3
Pan	28.3			
Total	40.0			
Unwashed Wt. =				
Tare =		Wt. Passing #200 =		

Sieve Analysis

Seive No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.
38.1			
25.4			
19.0			
12.5			
9.5			
4.75			
10	SEE WASHED SIEVE RPT		
Total =			

Initial Moisture Content

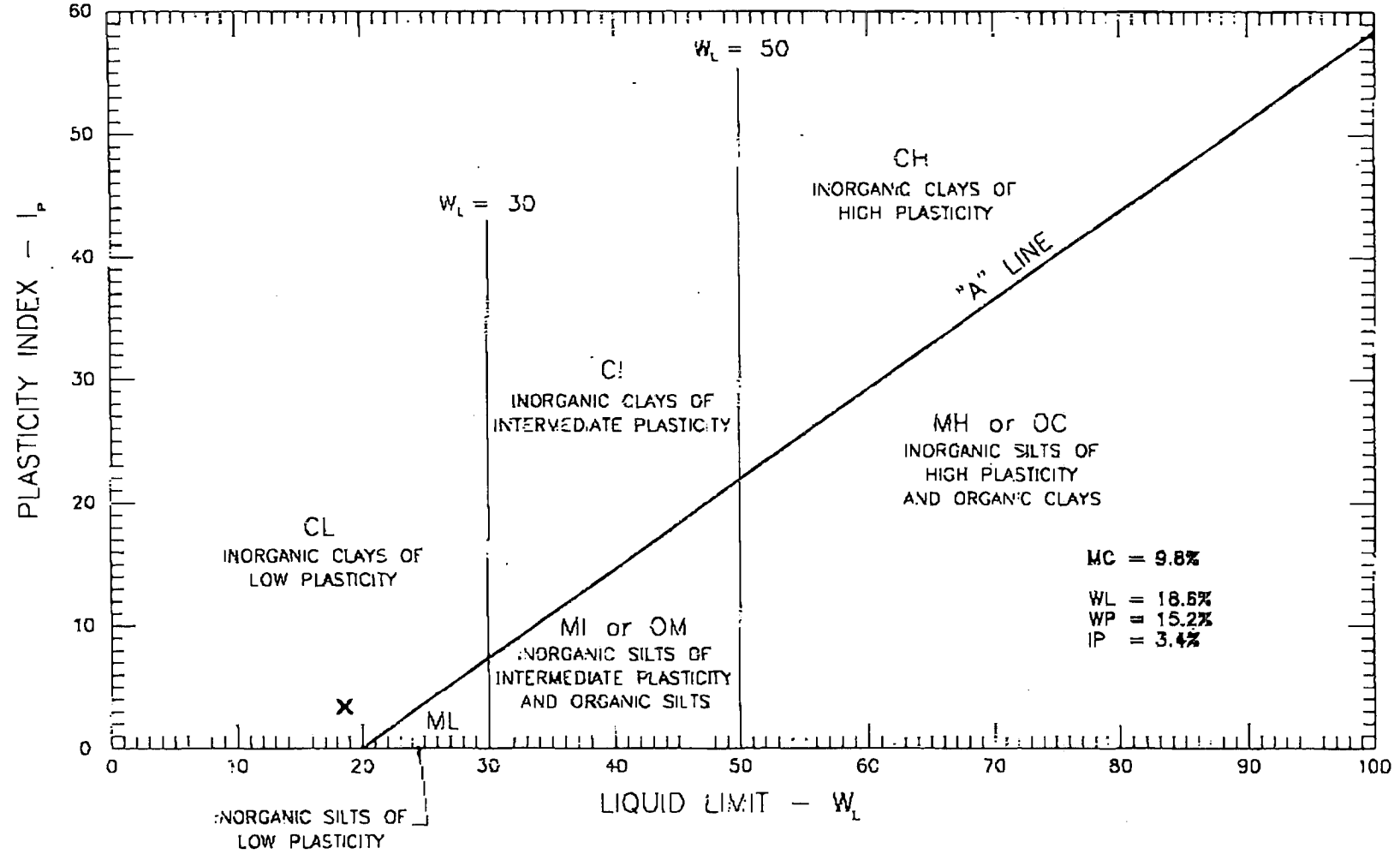
Tare No.	
Wet Wt. & Tare	
Dry Wt. & Tare	
Water Wt.	
Tare Wt.	
Wt. of Dry Soil	=W
Moisture Content	%
Dry Wt. of Sample from Initial Moisture	
=(100xWet Soil Wt.)/(100 + Initial Moisture) =	



GeoNorth Engineering Ltd.
1301 Kelliher Road
Prince George, B.C. V2L 5S3
Tel. (250) 561-4304 Fax (250) 564-9323

MOUNT POLLEY MINING CORP.
M.P. CONSTRUCTION PROGRAM STAGE 4
TAILINGS STORAGE FACILITY
GRAIN SIZE ANALYSIS OF KP06-ZS-03C, TP06-16

SCALE:	DATE:
N.T.S.	2006/07/05
PROJECT NO:	DRAWING NO.
K-2036	2036-B28



GeoNorth Engineering Ltd. 1301 Kelfiher Road Prince George, B.C. V2L 5S8 Tel. (250) 564-4304 Fax (250) 564-9323	MOUNT POLLEY MINING CORP. M.P. CONSTRUCTION PROGRAM STAGE 4 TAILINGS STORAGE FACILITY ATTERBERG LIMITS OF KP06-ZS-03C	SCALE: N.T.S.	DATE: 2006/07/25
		PROJECT NO: <-2036	DRAWING NO. 2035-B25

1301 Kelliher Road Prince Geo. , BC V2L5S8
Phone (250)564-4304; fax (250)564-8323

RELATIONSHIP REPORT

PROJECT NO. K 2036
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

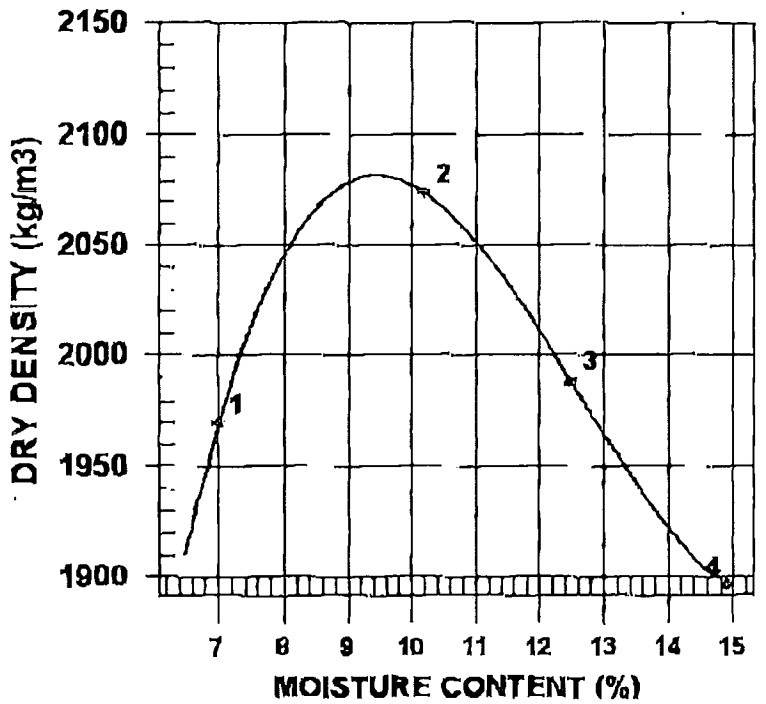
TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ 250-790-2268

PROJECT M.P. Construction Program Stage 4 Materials Testing — Mount Polley Mining Corp. Likely
CONTRACTOR

PROCTOR NO. 4 DATE TESTED 2006.Jun.30 DATE RECEIVED 2006.Jun.26 DATE SAMPLED 2006.Jun.21

INSITU MOISTURE	N/A %	COMPACTION STANDARD	Standard Proctor, ASTM D698
SAMPLED BY	CLIENT		
TESTED BY	BO	COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
SUPPLIER			
SOURCE	KP06-MS-03C, TP06-16	RAMMER TYPE	Manual
MATERIAL IDENTIFICATION		PREPARATION	Moist
MAJOR COMPONENT	TILL	OVERSIZE CORRECTION METHOD	ASTM 4718
SIZE		RETAINED 4.76mm SCREEN	12.9 %
DESCRIPTION		OVERSIZE SPECIFIC GRAVITY	2.67
ROCK TYPE		TOTAL NUMBER OF TRIALS	4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2107	1969	7.0
2	2285	2074	10.2
3	2237	1988	12.5
4	2179	1896	14.9

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2080	9.5
OVERSIZE CORRECTED	2140	8.5

COMMENTS

 2006.Jul.04 GeoNorth Engineering Ltd. PER.

1301 Kelliher Road Prince Geo[illegible], BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

10 20 40 60 SERIES

PROJECT NO. K 2036
CLIENT Mount Polley Mining Corp. Attn:
c.c. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

ATTN: Ron Martel @ 250-790-2268

PROJECT M.P. Construction Program Stage 4
Materials Testing

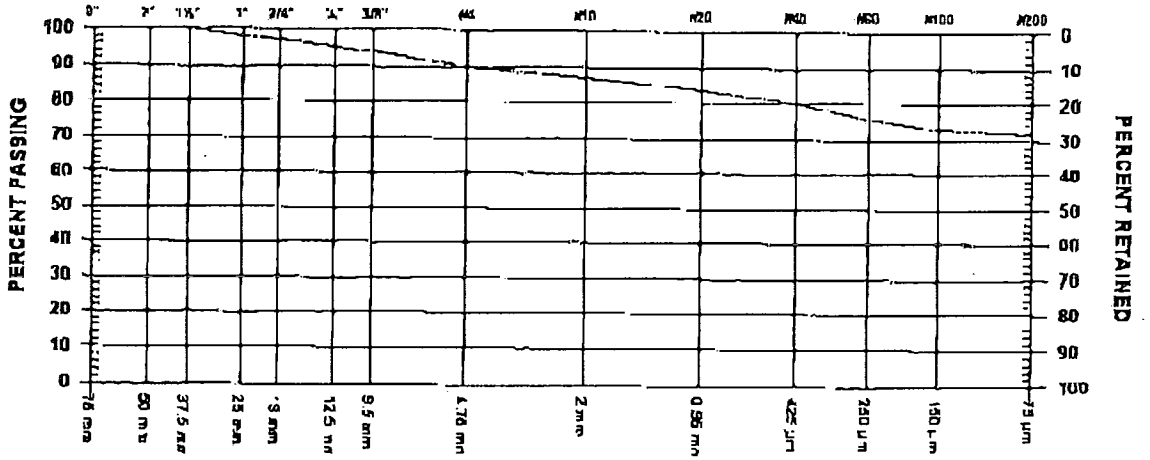
Mount Polley Mining Corp.
Likely

CONTRACTOR

SIEVE TEST NO. 7 DATE RECEIVED 2006.Jun.26 DATE TESTED 2006.Jun.30 DATE SAMPLED 2006.Jun.26

SUPPLIER
SOURCE KP06-ZS-04C, TP06-18
SPECIFICATION
MATERIAL TYPE TILL

SAMPLED BY CLIENT
TESTED BY RO
TEST METHOD WASHED



GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm		
2"	50 mm		
1 1/2"	37.5 mm	100.0	
1"	25 mm	98.3	
3/4"	19 mm	97.0	
1/2"	12.5 mm	95.4	
3/8"	9.5 mm	94.0	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	89.9	
No. 10	2.00 mm	86.7	
No. 20	850 µm	83.4	
No. 40	425 µm	80.2	
No. 60	250 µm	75.9	
No. 100	150 µm	72.6	
No. 200	75 µm	71.4	

COMMENTS

Page 1 of 1 2006.Jul.04 GeoNorth Engineering Ltd. PER.

GeoNorth Engineering

Test Designation: ASTM D-422

Hydrometer Analysis

Client: Mount Polley Mining Corp. (Knight Piesold)				Date: July 7, 2006
Project Name: MPCP - Stage 4				Project #: K-2035
Source/Location: KP06-ZS-04C				Type: Till
Sample #:	Test #:	Hole #: TP06-18	Depth:	Time:
Sampled By: Client	Tested By: DJ			Checked By: NK
Date Sampled: 06.21.06	Date Received: 06.26.06			Date Tested: 07.06.06

Starting Wt. (g)	% - #10	Elapsed Time (min)	Reading R	Temp (0C)	K	Corr. Reading R`	Zr (cm)	SQRT(Zr)/T (min)	D (mm)	N (%)	N*(%-#10)
40.0	0.867	0.5	25.0	26.0	0.01272				0.063	62.5	54.2
40.0	0.867	1	21.0	26.0	0.01272				0.046	52.5	45.5
40.0	0.867	2	19.5	26.0	0.01272				0.033	48.8	42.3
40.0	0.867	4	18.0	26.0	0.01272				0.023	45.0	39.0
40.0	0.867	8	15.0	26.0	0.01272				0.017	37.5	32.5
40.0	0.867	15	14.5	26.0	0.01272				0.012	36.3	31.5
40.0	0.867	30	12.0	26.0	0.01272				0.009	30.0	26.0
40.0	0.867	68	10.0	24.0	0.01301				0.006	25.0	21.7
40.0	0.867	120	8.5	24.0	0.01301				0.005	21.3	18.5
40.0	0.867	240	7.5	24.0	0.01301				0.003	18.8	16.3
40.0	0.867	480	6.0	24.0	0.01301				0.002	15.0	13.0
40.0	0.867	1409	5.5	24.0	0.01301				0.001	13.8	12.0

Hydrometer #: 794968	Graduate #: 2	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

Hydrometer Sieve Analysis

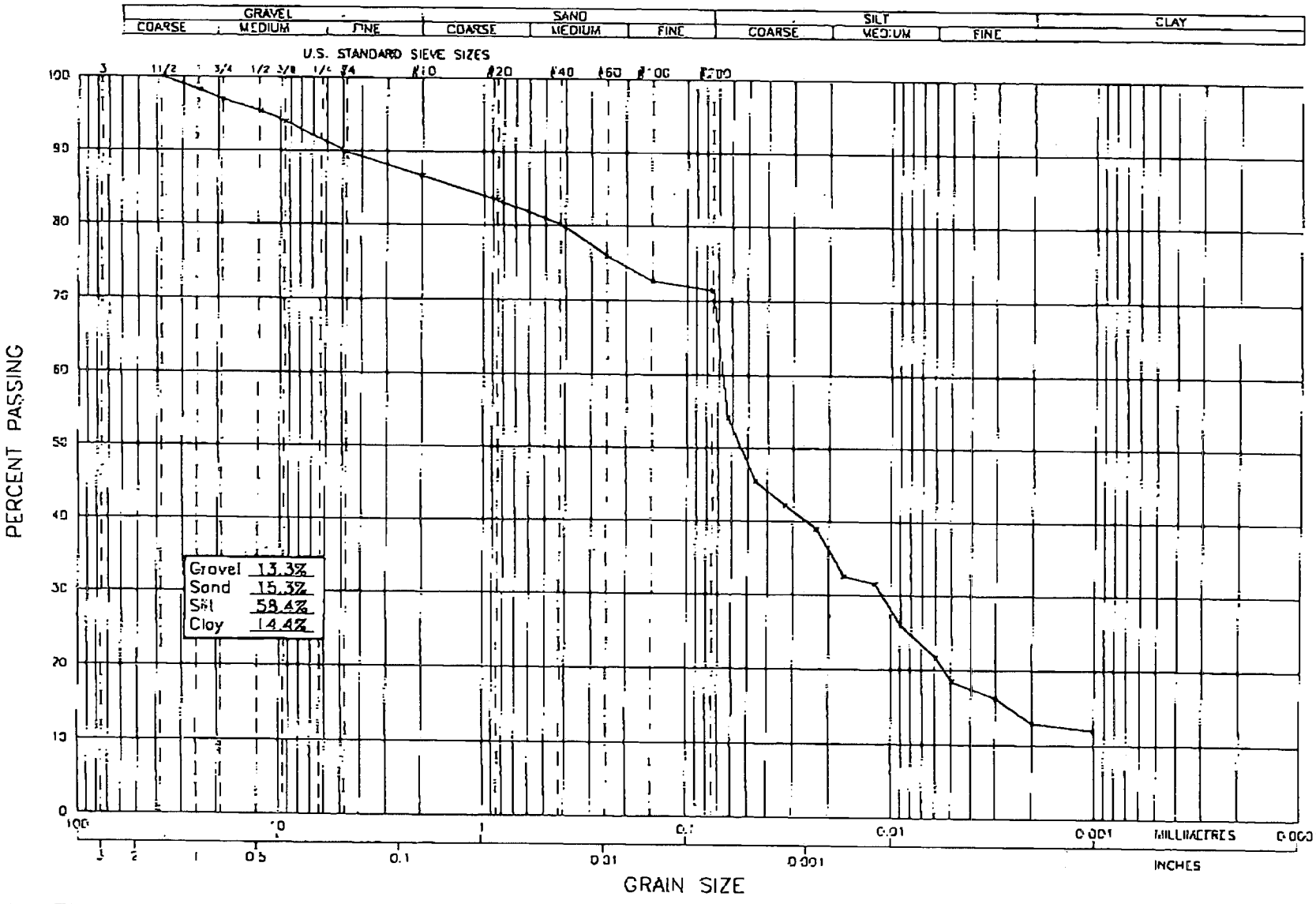
Seive No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
10		40.0	100.0	86.7
20	1.5		96.3	83.5
40	1.6		92.3	80.0
60	2.3		86.5	75.0
100	2.8		79.5	68.9
200	5.5		65.8	57.0
Pan	26.3			
Total	40.0			
Unwashed Wt. =				
Tare =		Wt. Passing #200 =		

Sieve Analysis

Seive No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.
38.1			
25.4			
19.0			
12.5			
9.5			
4.75			
10	SEE WASHED SIEVE		
Total =			

Initial Moisture Content

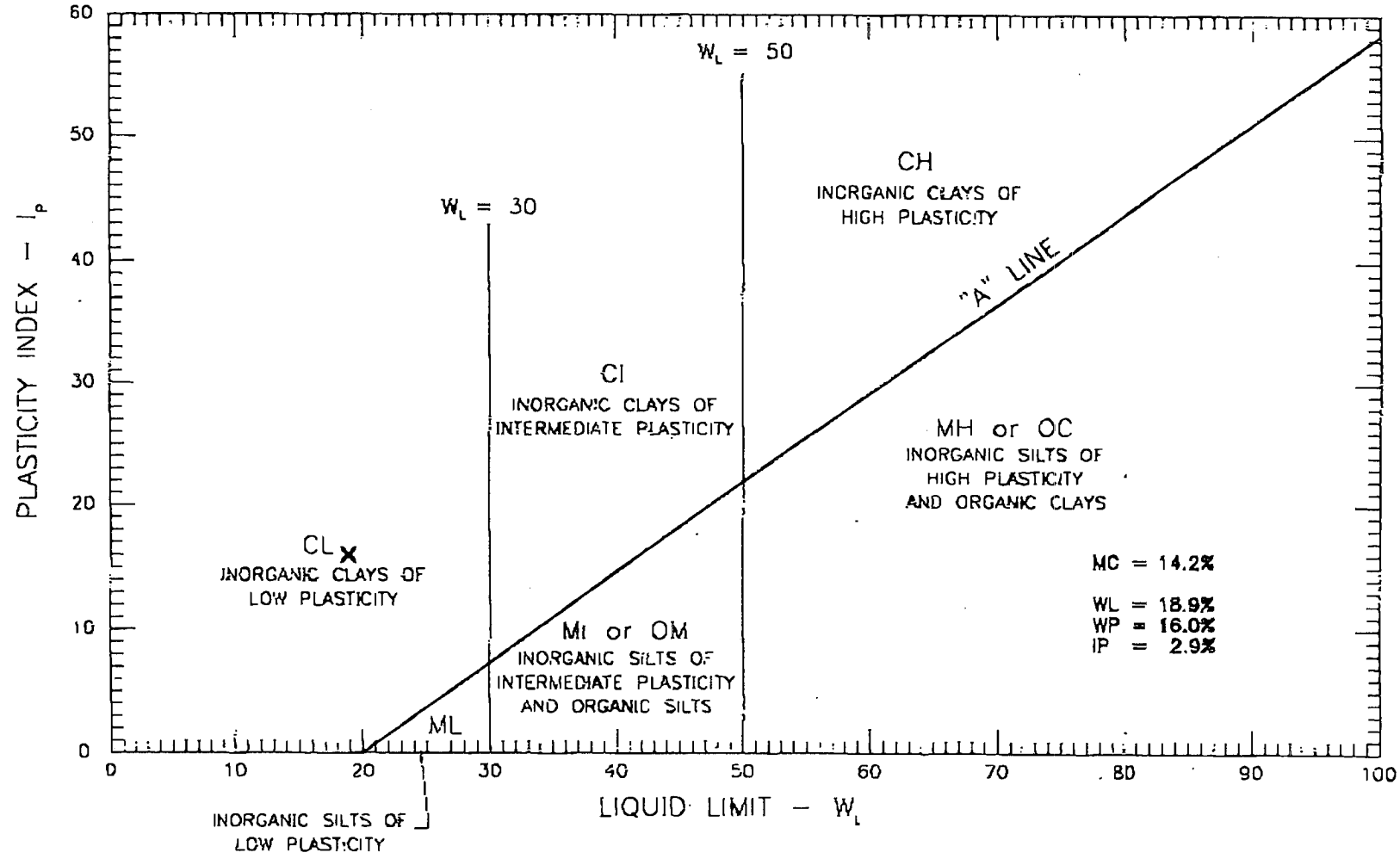
Tare No.	
Wet Wt. & Tare	
Dry Wt. & Tare	
Water Wt.	
Tare Wt.	
Wt. of Dry Soil	=W
Moisture Content	%
Dry Wt. of Sample from Initial Moisture	
=(100xWet Soil Wt.)/(100 + Initial Moisture) =	



GEONORTH ENGINEERING LTD.
1301 Kelliher Road
Prince George, B.C. V2L 5S8
Tel (250) 564-4304 Fax (250) 564-9323

MOUNT POLLEY MINING CORP.
M.P. CONSTRUCTION PROGRAM STAGE 4
GRAIN SIZE ANALYSIS OF KP06-ZS-04C, TP06-18

SCALE:	DATE:
N.T.S.	2006/07/07
PROJECT NO:	DRAWING NO.
K-2036	2036-829



GeoNorth Engineering Ltd. 1301 Kelliher Road Prince George, B.C. V2L 5S8 Tel (250) 564-4304 Fax (250) 564-9323	MOUNT POLLEY MINING CORP. M.P. CONSTRUCTION PROGRAM STAGE 4 ATTERBERG LIMITS OF KP06-ZS-04C, TP06-18	SCALE: N.T.S.	DATE: 2006/07/07
		PROJECT NO: K-2036	DRAWING NO. 2036-B32

1301 Kelliher Road Prince Geo , BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

RELATIONSHIP REPORT

PROJECT NO. K 2036
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piosold
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ 250-790-2268

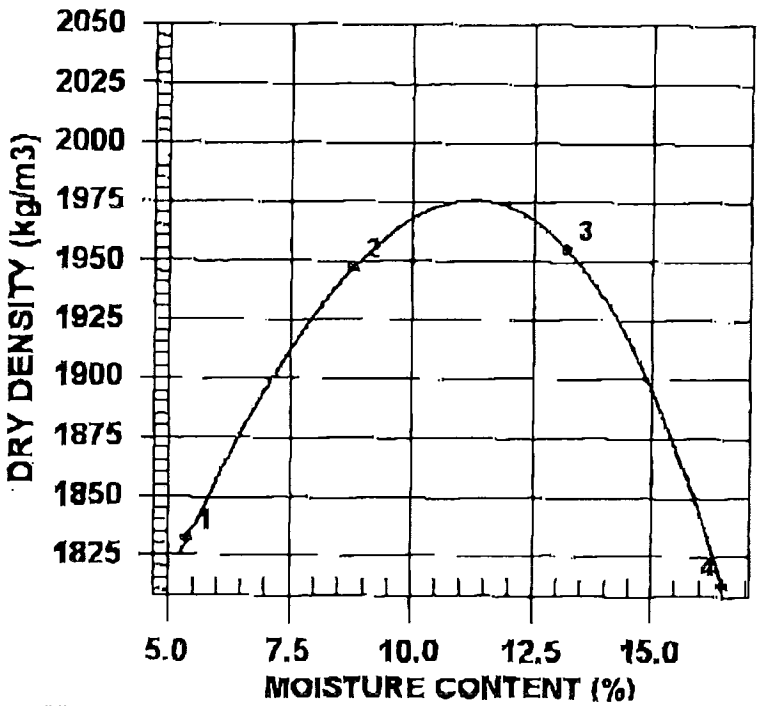
PROJECT M.P. Construction Program Stage 4
Materials Testing
CONTRACTOR

Mount Polley Mining Corp.
Likely

PROCTOR NO. 7 DATE TESTED 2006.Jul.05 DATE RECEIVED 2006.Jun.26 DATE SAMPLED 2006.Jun.21

INSITU MOISTURE N/A %
SAMPLED BY CLIENT
TESTED BY RO
SUPPLIER
SOURCE KP06-ZS-04C, TP06-18
MATERIAL IDENTIFICATION
MAJOR COMPONENT TILL
SIZE
DESCRIPTION
ROCK TYPE

COMPACTION STANDARD Standard Proctor, ASTM D698
COMPACTION PROCEDURE A: 101.6mm Mold, Passing 4.75mm
RAMMER TYPE Manual
PREPARATION Moist
OVERSIZE CORRECTION METHOD ASTM 4718
RETAINED 4.75mm SCREEN 10.1 %
OVERSIZE SPECIFIC GRAVITY 2.67
TOTAL NUMBER OF TRIALS 4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	1931	1832	5.4
2	2118	1947	8.8
3	2213	1955	13.2
4	2111	1812	16.5

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1980	11.5
OVERSIZE CORRECTED	2030	10.5

COMMENTS

 2006.Jul.05 GeoNorth Engineering Ltd. PER

1301 Kelliher Road Prince Geo[illegible], BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

10 20 40 60 SERIES

PROJECT NO. K 2036
CLIENT Mount Polley Mining Corp. Attn:
c.c. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

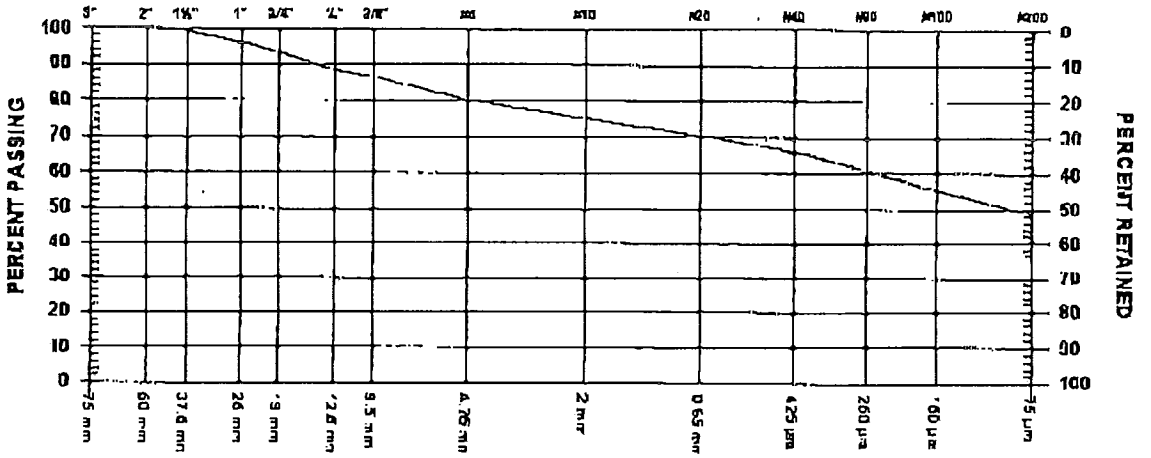
ATTN: Ron Martel @ 250-790-2268

PROJECT M.P. Construction Program Stage 4 Materials Testing
CONTRACTOR Mount Polley Mining Corp. Likely

SIEVE TEST NO. 6 DATE RECEIVED 2006.Jun.26 DATE TESTED 2006.Jun.30 DATE SAMPLED 2006.Jun.21

SUPPLIER
SOURCE KP06-ZS-05C, TP06-20
SPECIFICATION
MATERIAL TYPE TILL

SAMPLED BY CLIENT
TESTED BY HJ
TEST METHOD WASHED



GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm		
2"	50 mm	100.0	
1 1/2"	37.5 mm	99.1	
1"	25 mm	95.7	
3/4"	19 mm	93.2	
1/2"	12.5 mm	88.3	
3/8"	9.5 mm	86.4	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	80.1	
No. 10	2.00 mm	74.9	
No. 20	850 µm	70.1	
No. 40	425 µm	66.2	
No. 60	250 µm	60.8	
No. 100	150 µm	55.4	
No. 200	75 µm	48.5	

COMMENTS

 2006.Jul.04 GeoNorth Engineering Ltd. PER. [signature]

GeoNorth Engineering

Hydrometer Analysis

Test Designation: ASTM D-422

Client: Mount Polley Mining Corp. (Knight Piesold)				Date: July 7, 2006
Project Name: MPCP - Stage 4				Project #: K-2035
Source/Location: KP06-ZS-05C				Type: Till
Sample #:	Test #:	Hole #: TP06-20	Depth:	Time:
Sampled By: Client	Tested By: DJ			Checked By: NK
Date Sampled: 06.21.06	Date Received: 06.26.06			Date Tested: 07.06.06

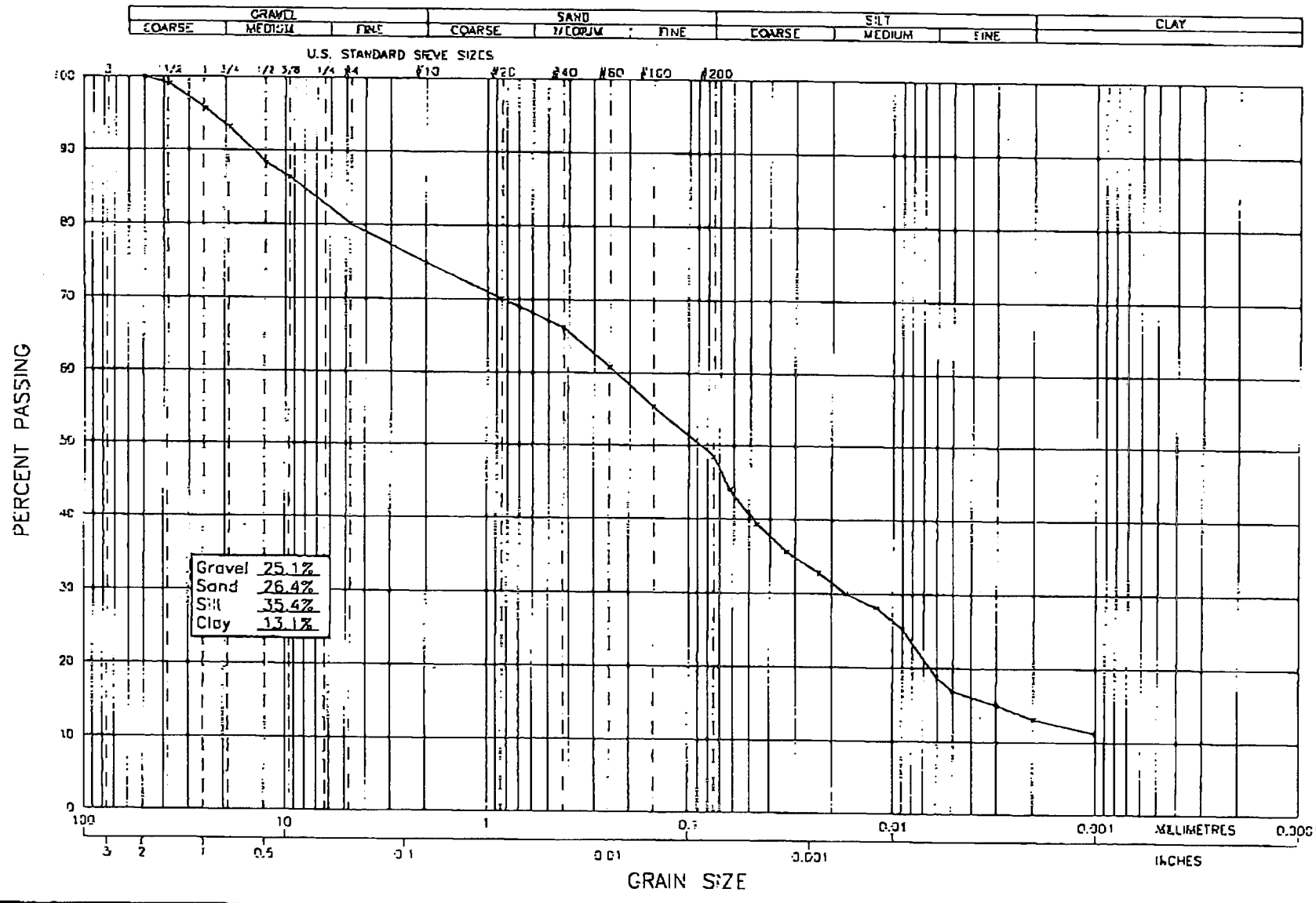
Starting Wt. (g)	% - #10	Elapsed Time (min)	Reading R	Temp (0C)	K	Corr. Reading R`	Zr (cm)	SQRT(Zr)/T (min)	D (mm)	N (%)	N*(%-#10)
40.0	0.749	0.5	23.5	26.0	0.01272				0.063	58.8	44.0
40.0	0.749	1	21.0	26.0	0.01272				0.046	52.5	39.3
40.0	0.749	2	19.0	26.0	0.01272				0.033	47.5	35.6
40.0	0.749	4	17.5	26.0	0.01272				0.023	43.8	32.8
40.0	0.749	8	16.0	26.0	0.01272				0.017	40.0	30.0
40.0	0.749	15	15.0	26.0	0.01272				0.012	37.5	28.1
40.0	0.749	30	13.5	26.0	0.01272				0.009	33.8	25.3
40.0	0.749	68	10.0	24.0	0.01301				0.006	25.0	18.7
40.0	0.749	120	9.0	24.0	0.01301				0.005	22.5	16.9
40.0	0.749	240	8.0	24.0	0.01301				0.003	20.0	15.0
40.0	0.749	480	7.0	24.0	0.01301				0.002	17.5	13.1
40.0	0.749	1434	6.0	24.0	0.01301				0.001	15.0	11.2

Hydrometer #: 794968	Graduate #: 5	Dispersing Agent: Sodium Hex	Amount: 125ml
Densily of Solids:			
Description of Sample:			

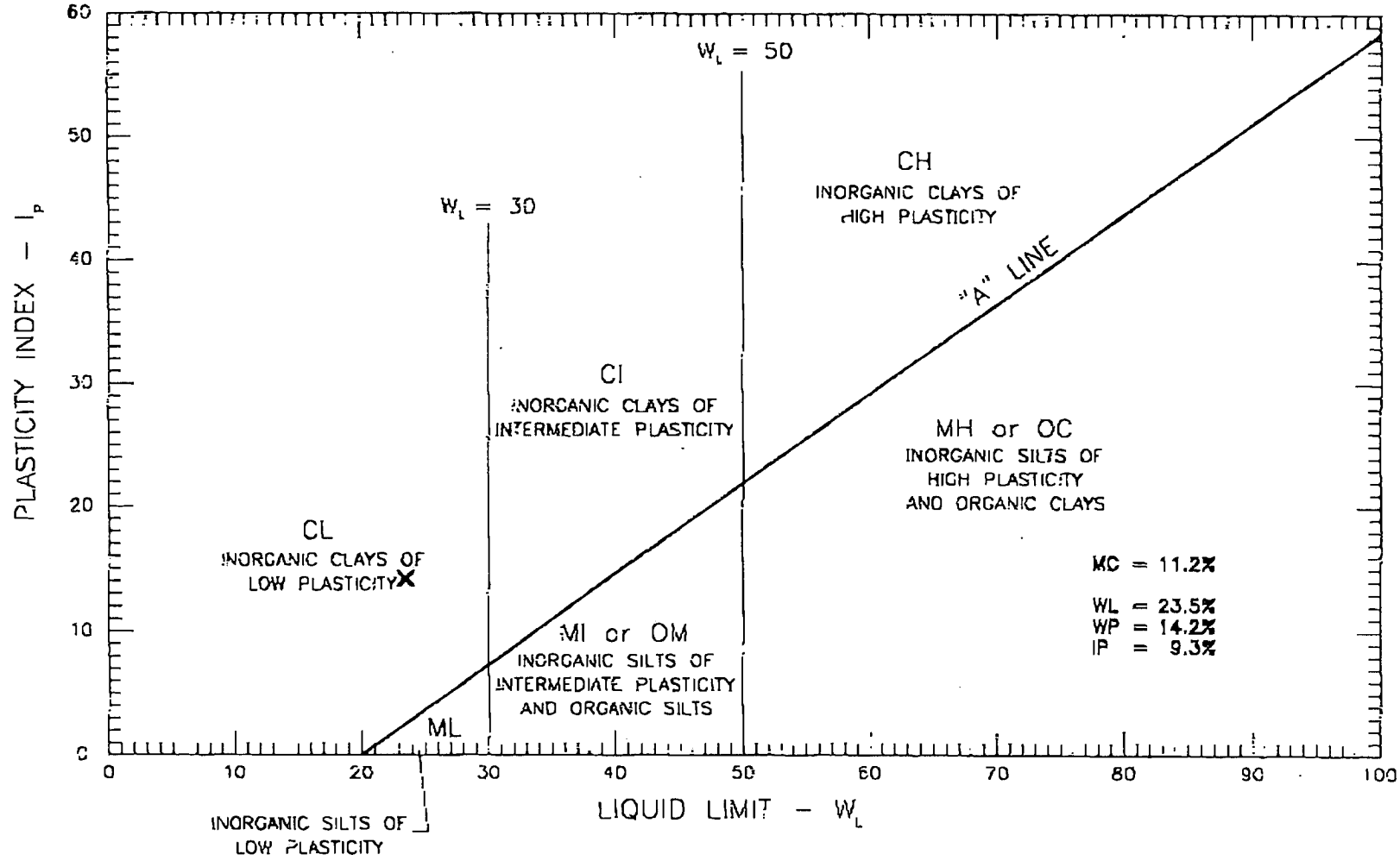
Hydrometer Sieve Analysis				
Seive No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
10		40.0	100.0	74.9
20	2.1		94.8	71.0
40	2.4		88.8	66.5
60	3.0		81.3	60.9
100	2.8		74.3	55.7
200	4.7		62.5	46.8
Pan	25.0			
Total	40.0			
Unwashed Wt. =				
Tare =		Wt. Passing #200 =		

Sieve Analysis			
Seive No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.
38.1			
25.4			
19.0			
12.5			
9.5			
4.75			
10	SEE WASHED SIEVE		
Total =			

Initial Moisture Content	
Tare No.	
Wet Wt. & Tare	
Dry Wt. & Tare	
Water Wt.	
Tare Wt.	
Wt. of Dry Soil	=W
Moisture Content	%
Dry Wt. of Sample from Initial Moisture	
=(100xWet Soil Wt.)/(100 + Initial Moisture) =	



GeoNorth Engineering Ltd. 1301 Kelther Road Prince George, B.C. V2L 3S8 Tel (250) 564-4304 Fax (250) 564-9323	MOUNT POLLEY MINING CORP. M.P. CONSTRUCTION PROGRAM STAGE 4 GRAIN SIZE ANALYSIS OF KP06-ZS-05C, TP06-20	SCALE: N.T.S.	DATE: 2006/07/07
		PROJECT NO: K-2036	DRAWING NO. 2036-B30



GeoNorth Engineering Ltd. 1301 Kelliher Road Prince George, BC V2L 5S8 Tel. (250) 564-4301 Fax (250) 564-9323	MOUNT POLLEY MINING CORP. M.P. CONSTRUCTION PROGRAM STAGE 4 ATTERBERG LIMITS OF KP06-ZS-05C, TP06-20	SCALE: N.T.S.	DATE: 2006/07/07
		PROJECT NO: K-2036	DRAWING NO. 2036-B33

1301 Kellihor Road Prince Geo..., BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
VOL -1N0

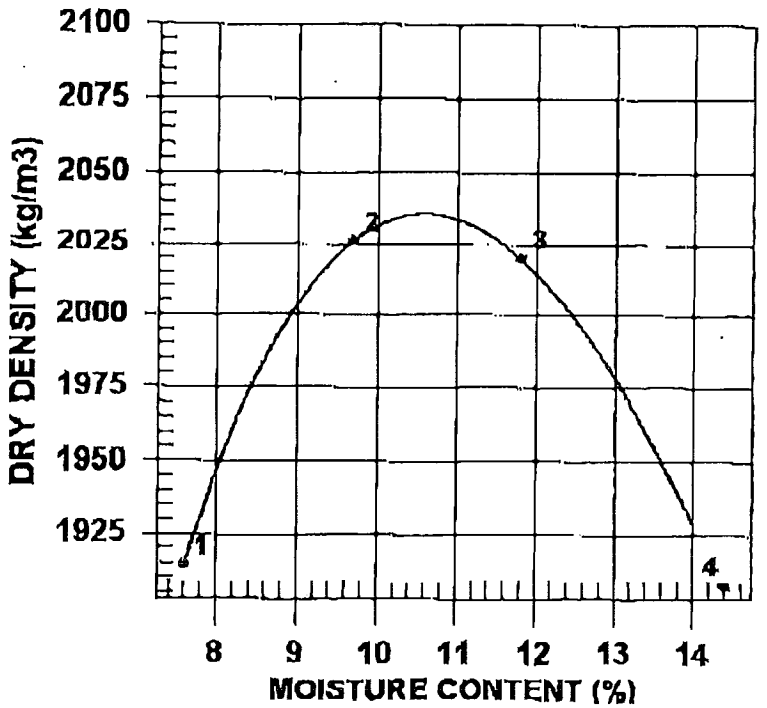
ATTN: Ron Martel @ 250-790-2268

PROJECT NO. K 2036
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

PROJECT M.P. Construction Program Stage 4
Materials Testing
CONTRACTOR Mount Polley Mining Corp.
Likely

PROCTOR NO. 5 DATE TESTED 2006.Jun.30 DATE RECEIVED 2006.Jun.26 DATE SAMPLED 2006.Jun.21

INSITU MOISTURE	N/A %	COMPACTION STANDARD	Standard Proctor, ASTM D698
SAMPLED BY	CLIENT	COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
TESTED BY	HO	RAMMER TYPE	Manual
SUPPLIER		PREPARATION	Moist
SOURCE	KP06-ZS-05C, TP06-20	OVERSIZE CORRECTION METHOD	ASTM 4718
MATERIAL IDENTIFICATION		RETAINED 4.75mm SCREEN	19.9 %
MAJOR COMPONENT	TILL	OVERSIZE SPECIFIC GRAVITY	2.67
SIZE		TOTAL NUMBER OF TRIALS	4
DESCRIPTION			
ROCK TYPE			



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2059	1914	7.6
2	2223	2026	9.7
3	2258	2020	11.8
4	2182	1907	14.4

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2040	10.5
OVERSIZE CORRECTED	2140	8.5

COMMENTS

 2006.Jul.04 GeoNorth Engineering Ltd. PER.

1301 Kelliher Road Prince Geo., BC V2L5S8
Phone (250)584-4304: fax (250)584-9323

10 20 40 60 SERIES

PROJECT NO. K 2036
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ 250-790-2268

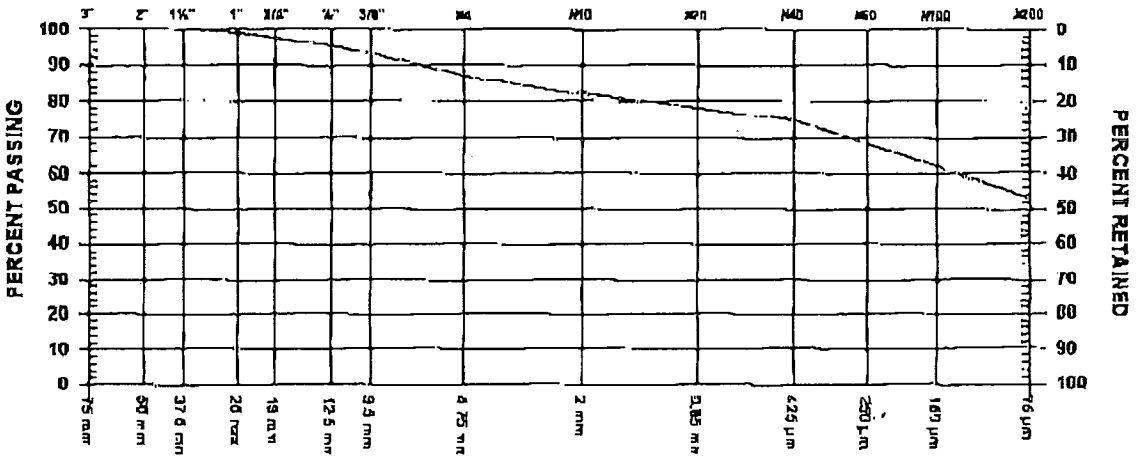
PROJECT M.P. Construction Program Stage 4 Materials Testing
CONTRACTOR

Mount Polley Mining Corp.
Likely

SIEVE TEST NO. 8 DATE RECEIVED 2006.Jun.26 DATE TESTED 2006.Jun.30 DATE SAMPLED 2006.Jun.20

SUPPLIER
SOURCE KP06-ZS-06C, TP06-04
SPECIFICATION
MATERIAL TYPE TILL

SAMPLED BY CLIENT
TESTED BY GW
TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm		
2"	50	mm		
1 1/2"	37.5	mm	100.0	
1"	25	mm	98.9	
3/4"	19	mm	97.5	
1/2"	12.5	mm	95.3	
3/8"	9.5	mm	93.4	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	86.7	
No. 10	2.00	mm	82.3	
No. 20	850	µm	77.9	
No. 40	425	µm	75.0	
No. 60	250	µm	68.3	
No. 100	150	µm	62.3	
No. 200	75	µm	52.7	

COMMENTS

Page 1 of 1 2006.Jul.04 GeoNorth Engineering Ltd. PER.

GeoNorth Engineering

Test Designation: ASTM D-422

Hydrometer Analysis

Client: Mount Polley Mining Corp. (Knight Piesold)			Date: July 7, 2006
Project Name: MPCP - Stage 4			Project #: K-2036
Source/Location: KP06-ZS-06C			Type: Till
Sample #:	Test #:	Hole #: TP06-04 Depth:	Time:
Sampled By: Client	Tested By: DJ		Checked By: NK
Date Sampled: 06.20.06	Date Received: 06.26.06		Date Tested: 07.06.06

Starting Wt. (g)	% - #10	Elapsed Time (min)	Reading R	Temp (0C)	K	Corr. Reading R`	Zr (cm)	SQRT(Zr)/T (min)	D (mm)	N (%)	N*(%-#10)
40.0	0.823	0.5	24.0	26.0	0.01272				0.063	60.0	49.4
40.0	0.823	1	21.0	26.0	0.01272				0.046	52.5	43.2
40.0	0.823	2	19.5	26.0	0.01272				0.033	48.8	40.2
40.0	0.823	4	18.0	26.0	0.01272				0.023	45.0	37.0
40.0	0.823	8	16.0	26.0	0.01272				0.017	40.0	32.9
40.0	0.823	15	14.0	26.0	0.01272				0.012	35.0	28.8
40.0	0.823	30	12.5	26.0	0.01272				0.009	31.3	25.8
40.0	0.823	68	10.0	24.0	0.01301				0.006	25.0	20.6
40.0	0.823	120	8.5	24.0	0.01301				0.005	21.3	17.5
40.0	0.823	240	7.5	24.0	0.01301				0.003	18.8	15.5
40.0	0.823	480	6.5	24.0	0.01301				0.002	16.3	13.4
40.0	0.823	1400	5.0	24.0	0.01301				0.001	12.5	10.3

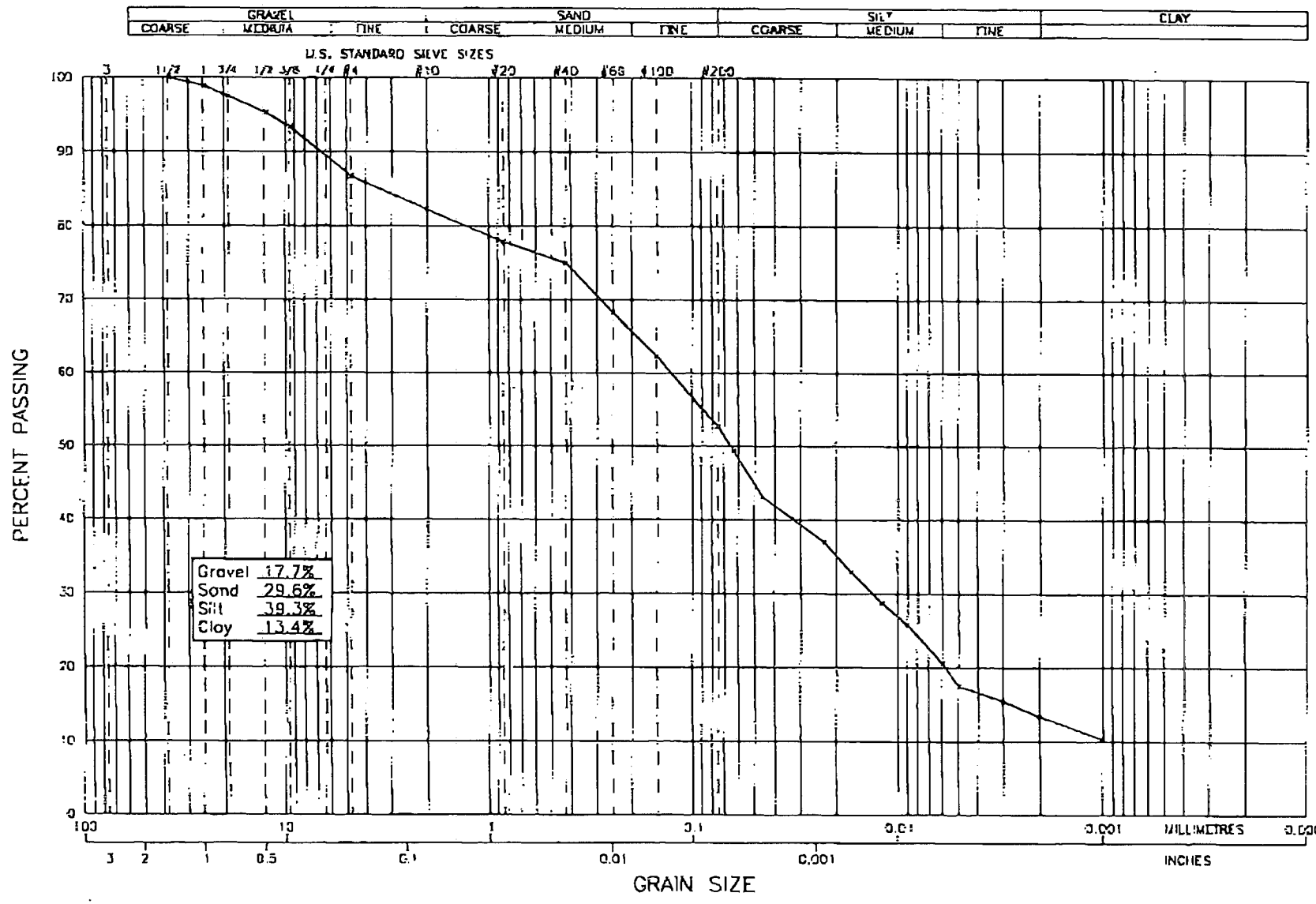
Hydrometer #: 794968	Graduate #: 1	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

Hydrometer Sieve Analysis				
Seive No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
10		40.0	100.0	82.3
20	1.8		95.5	78.6
40	2.1		90.3	74.3
60	2.8		83.3	68.5
100	2.8		76.3	62.8
200	4.6		64.8	53.3
Pan	25.9			
Total	40.0			
Unwashed WL =				
Tare =		Wt. Passing #200 =		

Sieve Analysis			
Seive No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.
38.1			
25.4			
19.0			
12.5			
9.5			
4.75			
10	SEE WASHED SIEVE		
Total =			

Initial Moisture Content	
Tare No.	
Wet Wt. & Tare	
Dry Wt. & Tare	
Water Wt.	
Tare Wt.	
Wt. of Dry Soil	=W
Moisture Content	%
Dry Wt. of Sample from Initial Moisture	
=(100xWet Soil Wt.)/(100 + Initial Moisture) =	

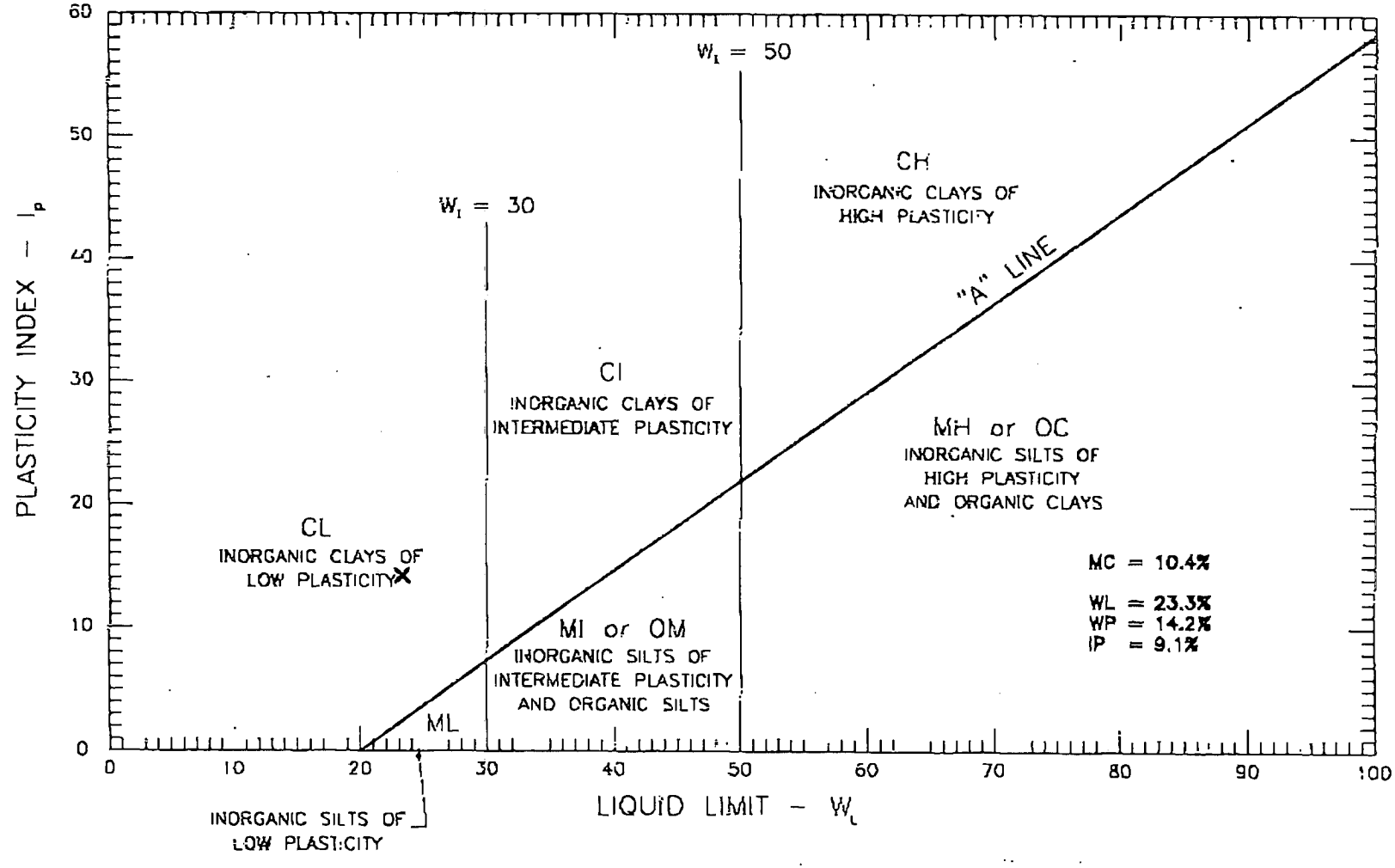
NDELCO



GeoNorth Engineering Ltd.
1351 Kelther Road
Prince George, BC V2L 5S8
Tel. (250) 564-4304 Fax (250) 564-9323

MOUNT POLLEY MINING CORP.
M.P. CONSTRUCTION PROGRAM STAGE 4
GRAIN SIZE ANALYSIS OF KP06-ZS-06C, TP06-04

SCALE:	DATE:
N.T.S.	2006/07/06
PROJECT NO:	DRAWING NO.
K-2036	2036-931



GeoNorth Engineering Ltd. 1301 Kelther Road Prince George, B.C. V2L 5S8 Tel: (250) 564-4304 Fax (250) 564-9323	MOUNT POLLEY MINING CORP. M.P. CONSTRUCTION PROGRAM STAGE 4 ATTERBERG LIMITS OF KP06-ZS-06C, TP06-04	SCALE: N.T.S.	DATE: 2006/07/10
		PROJECT NO: K-2036	DRAWING NO. 2036-834

1301 Kelliher Road Prince Geo., BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

RELATIONSHIP REPORT

PROJECT NO. K 2036
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

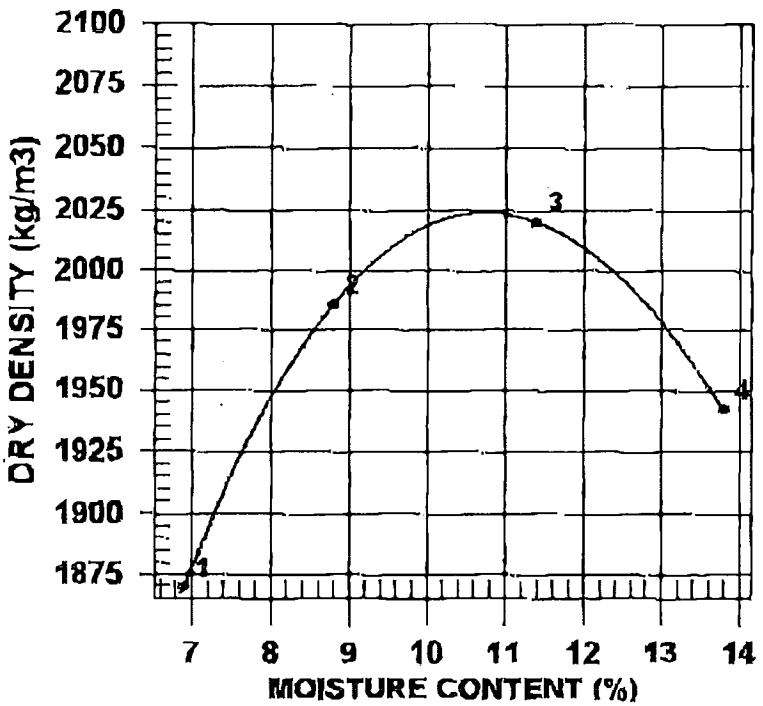
TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

ATTN: Ron Marlel @ 250-790-2268

PROJECT M.P. Construction Program Stage 4 Materials Testing
CONTRACTOR Mount Polley Mining Corp. Likely

PROCTOR NO. 6 DATE TESTED 2006.Jun.30 DATE RECEIVED 2006.Jun.26 DATE SAMPLED 2006.Jun.20

INSITU MOISTURE	N/A %	COMPACTION STANDARD	Standard Proctor, ASTM D698
SAMPLED BY	CLIENT		
TESTED BY	BO	COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
SUPPLIER			
SOURCE	KP06-ZS-06C, TP06-04	RAMMER TYPE	Manual
MATERIAL IDENTIFICATION		PREPARATION	Moist
MAJOR COMPONENT	TILL	OVERSIZE CORRECTION METHOD	ASTM 4718
SIZE		RETAINED 4.75mm SCREEN	13.1 %
DESCRIPTION		OVERSIZE SPECIFIC GRAVITY	2.67
ROCK TYPE		TOTAL NUMBER OF TRIALS	4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	1999	1870	6.9
2	2161	1986	8.8
3	2250	2020	11.4
4	2210	1942	13.8

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2020	10.5
OVERSIZE CORRECTED	2090	9.5

COMMENTS

 2006.Jul.04 GeoNorth Engineering Ltd. PER.

1301 Kelliher Road Prince George, V2L5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ 250-790-2268

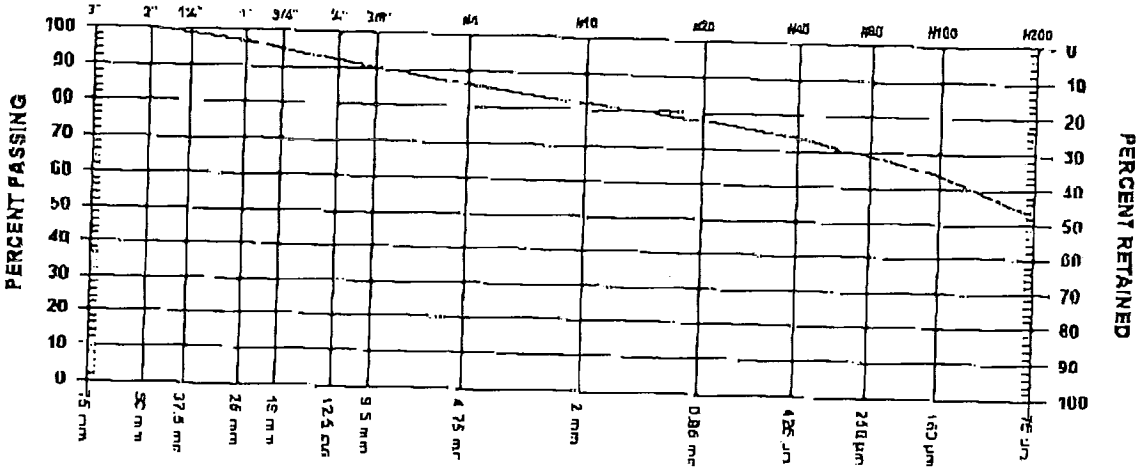
PROJECT NO. K 2036
CLIENT Mount Polley Mining Corp. Attn:
c.c. Knight Piesold Consulting

PROJECT M.P. Construction Program Stage 4/5
Materials Testing
CONTRACTOR Mount Polley Mining Corp.
Likely

SIEVE TEST NO. 9 DATE RECEIVED 2006.Oct.05 DATE TESTED 2006.Oct.10 DATE SAMPLED 2006.Oct.02

SUPPLIER LEACH PAD
SOURCE R1-S5-LP-XS
SPECIFICATION
MATERIAL TYPE TILL

SAMPLED BY CLIENT - BC
TESTED BY DJ
TEST METHOD WASHED



GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm		
2"	50 mm	100.0	
1 1/2"	37.5 mm	98.7	
1"	25 mm	97.2	
3/4"	19 mm	95.1	
1/2"	12.5 mm	92.0	
3/8"	9.5 mm	90.2	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	86.2	
No. 10	2.00 mm	81.8	
No. 20	850 µm	77.8	
No. 40	425 µm	73.6	
No. 60	250 µm	68.9	
No. 100	150 µm	63.7	
No. 200	75 µm	52.9	

COMMENTS

GeoNorth Engineering

Test Designation: ASTM D-422

Hydrometer Analysis

Client: Mount Polley Mining Corp Attn: Knight Piesold			Date: October 11, 2006
Project Name: MPCP - Stage 4 & 5			Project #: K-2035
Source/Location: R1-S5-LP-ZS - Leach Pad			Type: TILL
Sample #:	Test #:	Hole #:	Depth:
Sampled By: Eric Coffin	Tested By: DJ		Time:
Date Sampled: 10.02.06	Date Received: 10.05.06		Checked By: NK
			Date Tested: 10.10.06

Starting Wt. (g)	% - #10	Elapsed Time (min)	Reading R	Temp (0C)	K	Corr. Reading R'	Zr (cm)	SQRT(Zr)/T (min)	D (mm)	N (%)	N*(%-#10)
40.0	0.818	1	22.5	19.0	0.01382						
40.0	0.818	2	21.5	19.0	0.01382				0.049	62.5	51.1
40.0	0.818	4	19.5	19.0	0.01382				0.035	53.8	44.0
40.0	0.818	8	18.5	19.0	0.01382				0.025	48.8	39.9
40.0	0.818	15	17.0	19.0	0.01382				0.018	46.3	37.9
40.0	0.818	30	14.5	19.0	0 01382				0.013	42.5	34.8
40.0	0.818	60	13.0	19.0	0.01382				0.009	36.3	29.7
40.0	0.818	120	11.0	18.0	0.01399				0.007	32.5	26.6
40.0	0.818	240	9.5	17.0	0.01417				0.005	27.5	22.5
40.0	0.818	480	8.0	17.0	0.01417				0.003	23.8	19.5
40.0	0 818	1440	6.5	19.0	0 01382				0.002	20.0	16.4
									0.001	16 3	13.3

Hydrometer #: 794968 | Graduate #: 3 | Dispersing Agent: Sodium Hex | Amount: 125ml

Densily of Solids:

Description of Sample:

Hydrometer Sieve Analysis

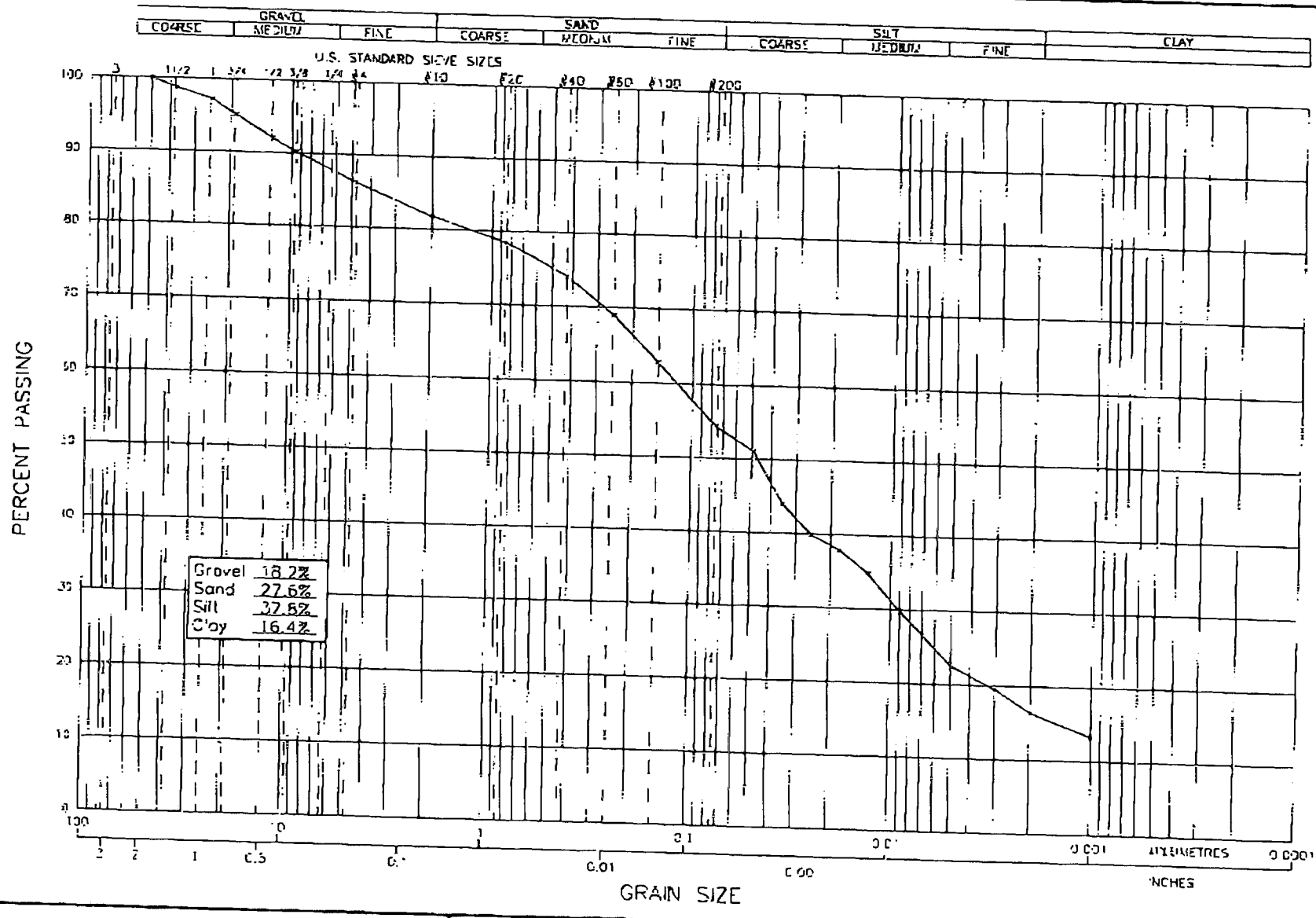
Seive No.	Weight Relained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
10		40.0	100.0	81.8
20	1.7		95.8	78.4
40	2.1		90.5	74.0
60	2.5		84.3	69.0
100	3.0		76.8	62.8
200	4.2		66.3	54.2
Pan	26.5			
Total	40.0			
Unwashed Wt. =				
Tare =		Wt. Passing #200 =		

Sieve Analysis

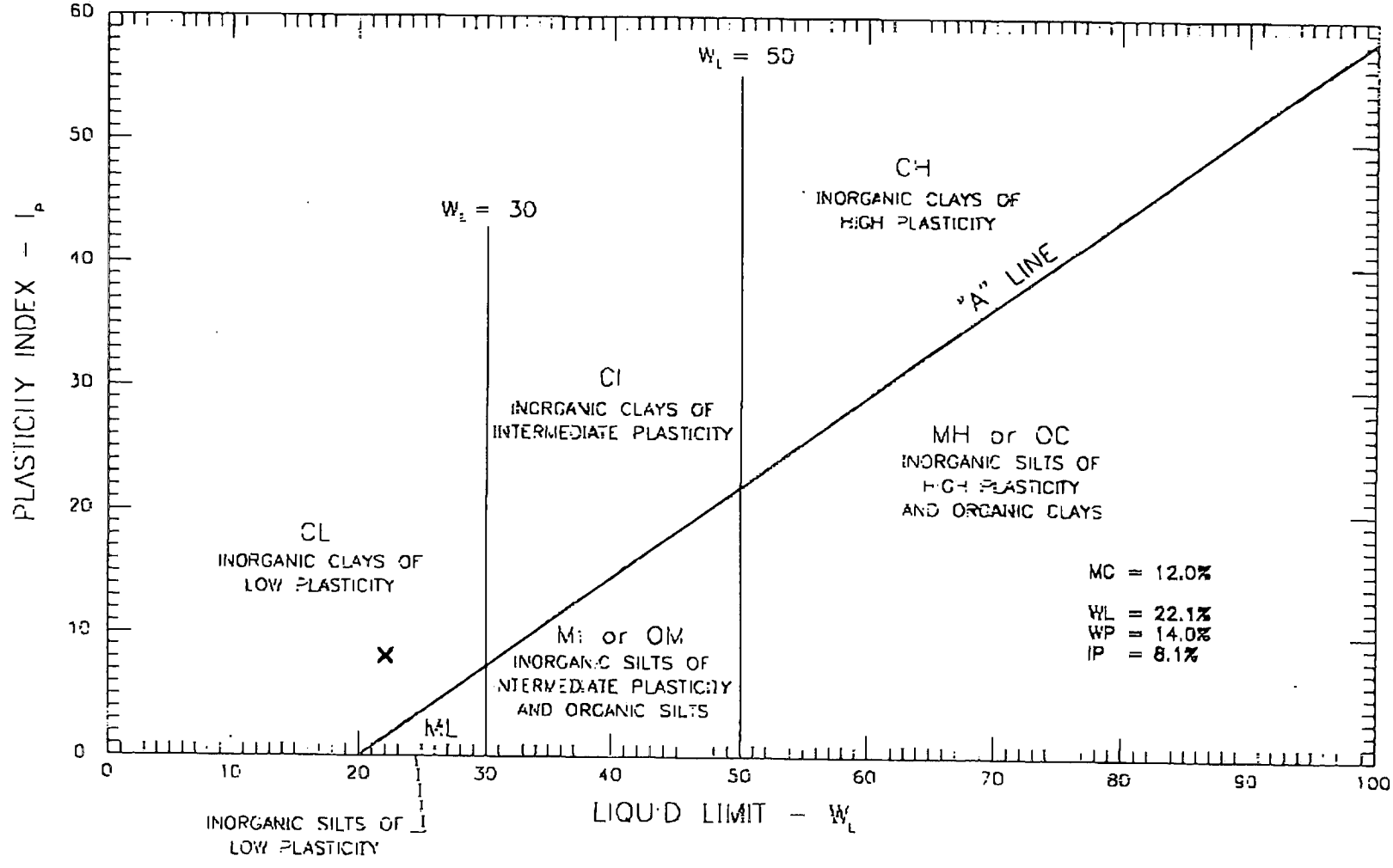
Seive No.	Weight Relained	Total Wt. Passing	% Finer Than Orig. Samp.
38.1			
25.4			
19.0			
12.5			
9.5			
4.75			
10	SEE WASHED SIEVE		
Total =			

Initial Moisture Content

Tare No.	
Wet Wt. & Tare	
Dry Wt. & Tare	
Water Wt.	
Tare Wt.	
Wt. of Dry Soil	=W
Moisture Content	%
Dry Wt. of Sample from Initial Moisture	
=(100xWet Soil Wt.)/(100 + Initial Moisture) =	



GeoNorth Engineering Ltd. 1301 Kelther Road Prince George, B.C. V2L 5S8 Tel. (250) 564-4304 Fax (250) 564-9323	MOUNT POLLEY MINING CORP. M.P. CONSTRUCTION PROGRAM STAGE 4 & 5 GRAIN SIZE ANALYSIS OF R1-S5-LP-ZS, LEACH PAD	SCALE: N.T.S.	DATE: 2006/10/11
		PROJECT NO: 1-2036	DRAWING NO. 2036-E35



GeoNorth Engineering Ltd. 1301 Kelfner Road Prince George, B.C. V2L 5S8 Tel. (250) 564-4304 Fax (250) 564-9323	MOUNT POLLEY MINING CORP. M.P. CONSTRUCTION PROGRAM STAGE 4 ATTERBERG LIMITS OF R1-S5-LP-ZS, LEACH PAD	SCALE: N.T.S.	DATE: 2006/10/11
		PROJECT NO: K-2036	DRAWING NO. 2036-B37

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ 250-790-2268

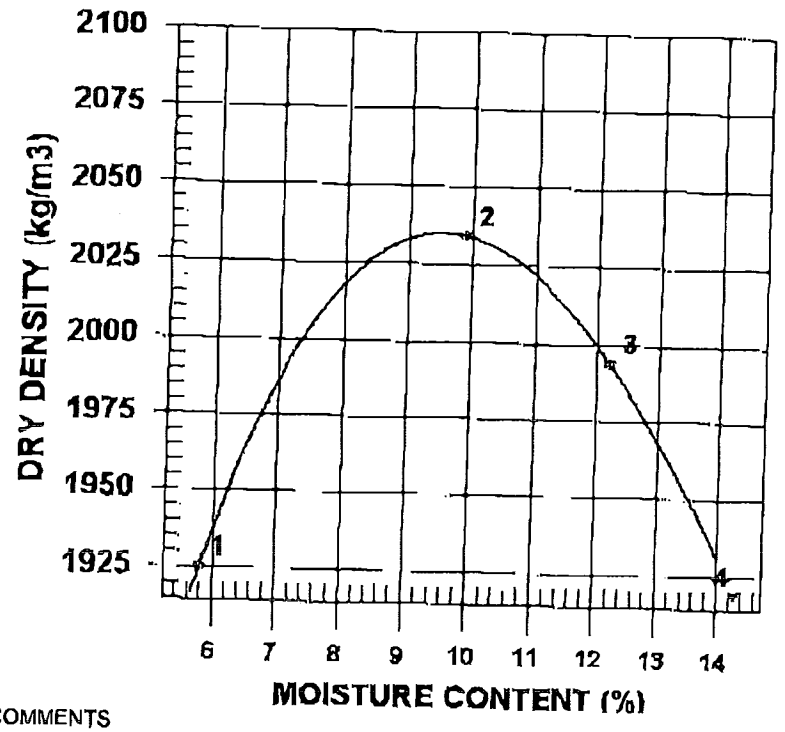
PROJECT NO. K 2036
CLIENT Mount Polley Mining Corp. Attn:
c.c. Knight Piesold Consulting

PROJECT M.P. Construction Program Stage 4/5
Materials Testing
CONTRACTOR Mount Polley Mining Corp.
Likely

PROCTOR NO. 8 DATE TESTED 2006.Oct.11 DATE RECEIVED 2006.Oct.05 DATE SAMPLED 2006.Oct.02

INSITU MOISTURE N/A %
SAMPLED BY CLIENT-EC
TESTED BY JE
SUPPLIER Leach Pad
SOURCE R1-S5-LP-ZS
MATERIAL IDENTIFICATION
MAJOR COMPONENT TILL
SIZE 50MM
DESCRIPTION
ROCK TYPE

COMPACTION STANDARD Standard Proctor, ASTM D698
COMPACTION PROCEDURE A: 101.6mm Mold, Passing 4.75mm
RAMMER TYPE Manual
PREPARATION Moist
OVERSIZE CORRECTION METHOD ASTM 4718
RETAINED 4.75mm SCREEN 13.5 %
OVERSIZE SPECIFIC GRAVITY 2.65
TOTAL NUMBER OF TRIALS 4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2037	1925	5.8
2	2235	2034	9.9
3	2237	1994	12.2
4	2193	1919	14.3

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2030	9.5
OVERSIZE CORRECTED	2100	8.5

COMMENTS

1301 Kelliher Road Prince George, V2L5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ 250-790-2268

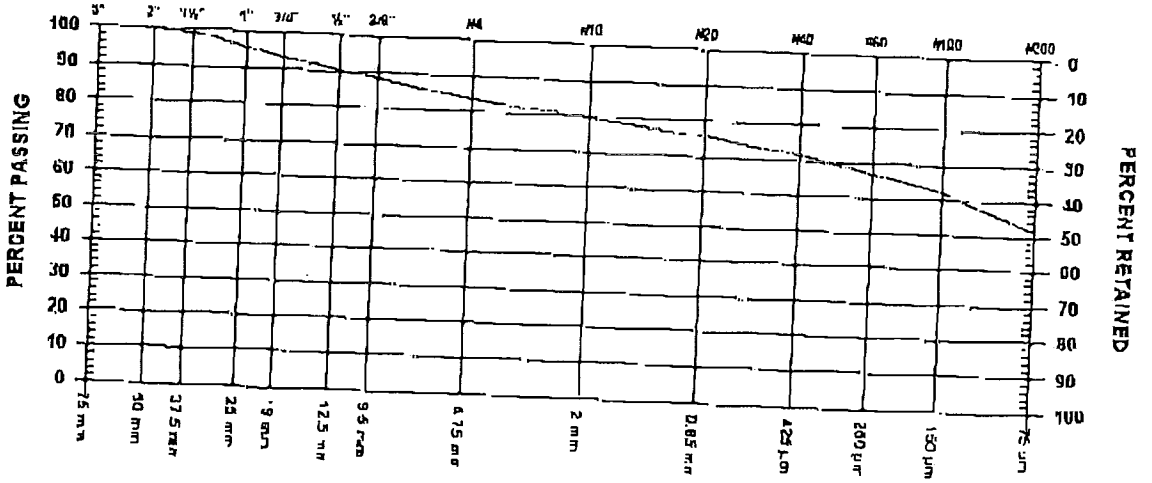
PROJECT NO. K 2036
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

PROJECT M.P. Construction Program Stage 4/5
Materials Testing
CONTRACTOR Mount Polley Mining Corp.
Likely

SIEVE TEST NO. 10 DATE RECEIVED 2006.Oct.05 DATE TESTED 2006.Oct.10 DATE SAMPLED 2006.Oct.02

SUPPLIER LEACH PAD
SOURCE R2-S5-LP-2S
SPECIFICATION
MATERIAL TYPE TILL

SAMPLED BY CLIENT - EC
TESTED BY DJ
TEST METHOD WASHED



GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm		
2"	50 mm	100.0	
1 1/2"	37.5 mm	99.0	
1"	25 mm	95.9	
3/4"	19 mm	93.1	
1/2"	12.5 mm	90.2	
3/8"	9.5 mm	88.1	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	83.4	
No. 10	2.00 mm	79.7	
No. 20	850 µm	75.7	
No. 40	425 µm	71.5	
No. 60	250 µm	66.8	
No. 100	150 µm	62.0	
No. 200	75 µm	51.5	

COMMENTS

Page 1 of 1 2006.Oct.11 GeoNorth Engineering Ltd. PER

GeoNorth Engineering

Test Designation: ASTM D-422

Hydrometer Analysis

Client: Mount Polley Mining Corp. Attn: Knight Piesold									Date: October 11, 2006		
Project Name: MPCP - Stage 4 & 5									Project #: K-2036		
Source/Location: R2-S5-LP-ZS - Leach Pad									Type: TILL		
Sample #:		Test #:		Hole #:		Depth:			Time:		
Sampled By: Eric Coffin			Tested By: DJ						Checked By: NK		
Date Sampled: 10.02.06			Date Received: 10.05.06						Date Tested: 10.10.06		
Starting Wt. (g)	% - #10	Elapsed Time (min)	Reading R	Temp (0C)	K	Corr. Reading R'	Zr (cm)	SQRT(Zr)/T (min)	D (mm)	N (%)	N*(%-#10)
40.0	0.797	1	24.0	19.0	0.01382				0.049	60.0	47.8
40.0	0.797	2	21.0	19.0	0.01382				0.035	52.5	41.8
40.0	0.797	4	20.0	19.0	0.01382				0.025	50.0	39.9
40.0	0.797	8	18.5	19.0	0.01382				0.018	46.3	36.9
40.0	0.797	15	17.0	19.0	0.01382				0.013	42.5	33.9
40.0	0.797	30	15.5	19.0	0.01382				0.009	38.8	30.9
40.0	0.797	60	13.0	19.0	0.01382				0.007	32.5	25.9
40.0	0.797	120	11.5	18.0	0.01399				0.005	28.8	23.0
40.0	0.797	240	10.0	17.0	0.01417				0.003	25.0	19.9
40.0	0.797	480	8.5	17.0	0.01417				0.002	21.3	17.0
40.0	0.797	1440	7.5	19.0	0.01382				0.001	18.8	15.0
Hydrometer #: 794968			Graduate #: 1			Dispersing Agent: Sodium Hex			Amount: 125ml		
Density of Solids:											
Description of Sample:											

Hydrometer Sieve Analysis

Seive No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
10		40.0	100.0	79.7
20	1.6		96.0	76.5
40	2.0		91.0	72.5
60	2.4		85.0	67.7
100	3.3		76.8	61.2
200	4.2		66.3	52.8
Pan	26.5			
Total	40.0			
Unwashed Wt. =				
Tare =		Wt. Passing #200 =		

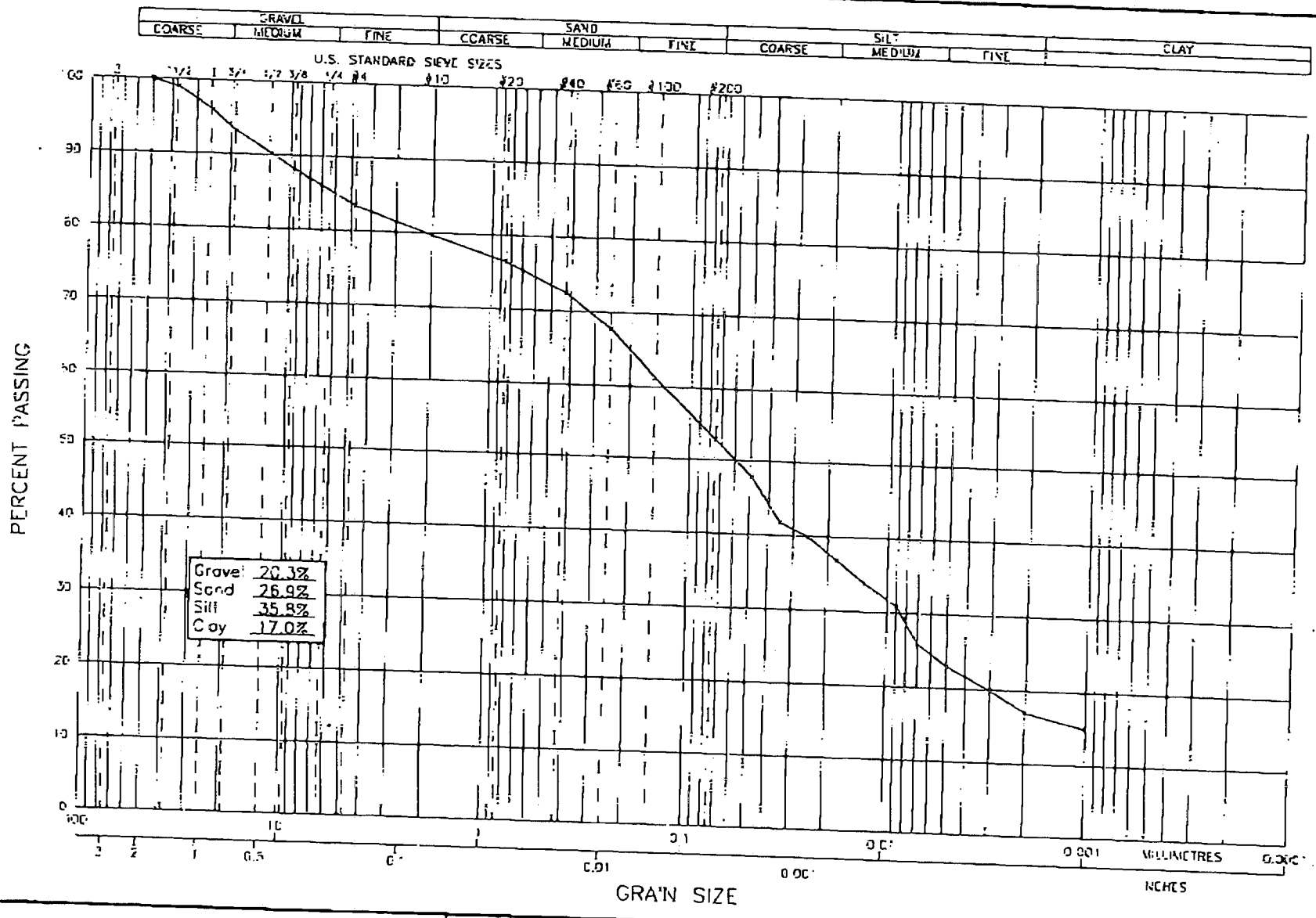
Sieve Analysis

Seive No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.
38.1			
25.4			
19.0			
12.5			
9.5			
4.75			
10	SEE WASHED SIEVE		
Total =			

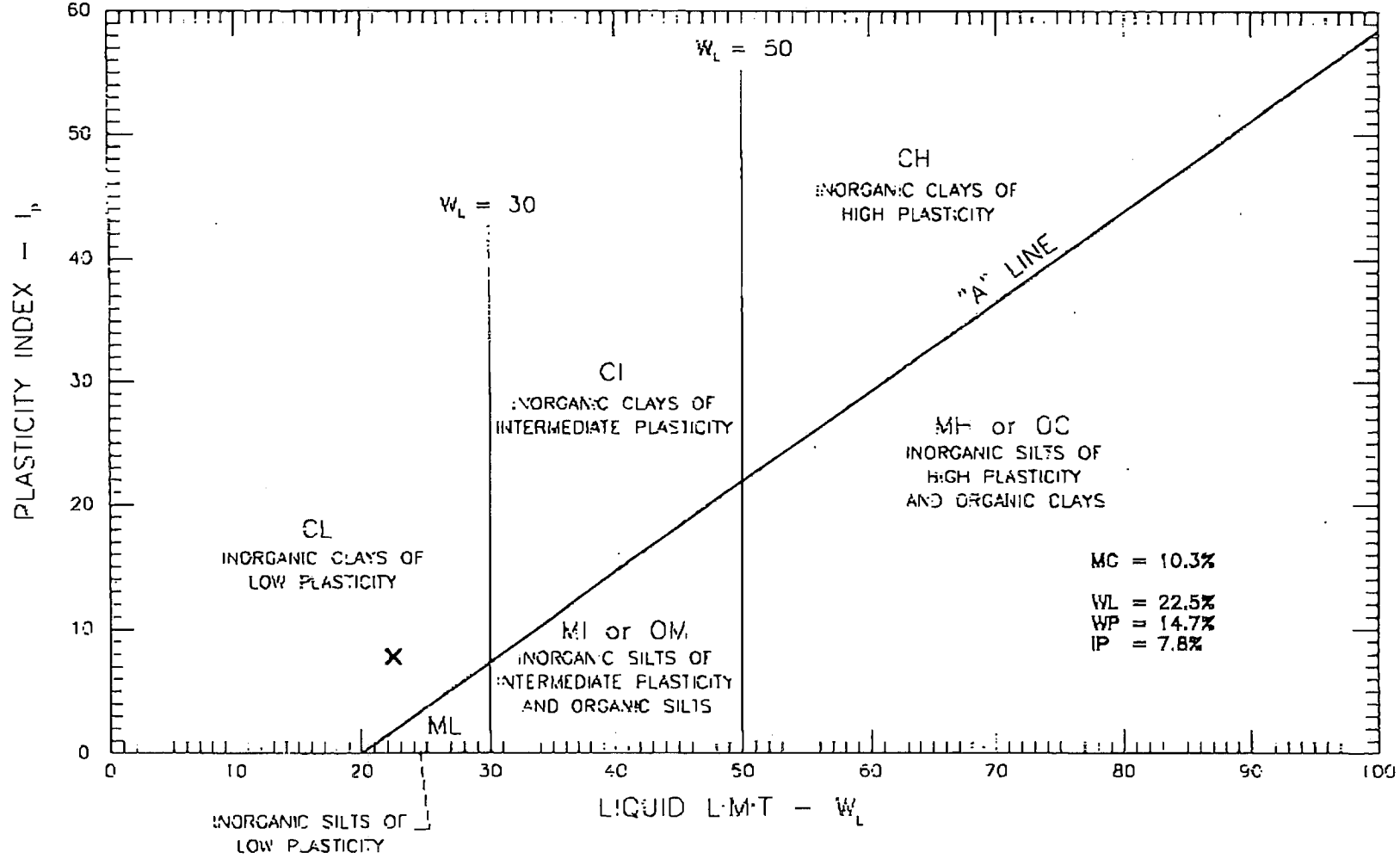
Initial Moisture Content

Tare No.	
Wet Wt. & Tare	
Dry Wt. & Tare	
Water Wt.	
Tare Wt.	
Wt. of Dry Soil	=W
Moisture Content	%
Dry Wt. of Sample from Initial Moisture	
=(100xWet Soil Wt.)/(100 + Initial Moisture) =	

NOTES



GeoNorth Engineering Ltd. 1301 Ketcher Road Prince George, BC V2L 5S9 Tel. (250) 564-4306 Fax (250) 564-9323	MOUNT POLLEY MINING CORP. M.P. CONSTRUCTION PROGRAM STAGE 4 & 5 GRAIN SIZE ANALYSIS OF R2-S5-LP-ZS, LEACH PAD	SCALE: N.T.S.	DATE: 2006/DEC/11
		PROJECT NO: K-2036	DRAWING NO. 2036-336



GEONORTH ENGINEERING LTD.
1301 Kelner Road
Prince George, B.C. V2L 5S6
Tel (250) 563-4304 Fax (250) 564-9321

MOUNT POLLEY MINING CORP.
M.P. CONSTRUCTION PROGRAM STAGE 4
ATTERBERG LIMITS OF R2-S5-LP-ZS, LEACH PAD

SCALE:	DATE:
N.T.S.	2006/10/11
PROJECT NO:	DRAWING NO.
K-2036	2036-838

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ 250-790-2268

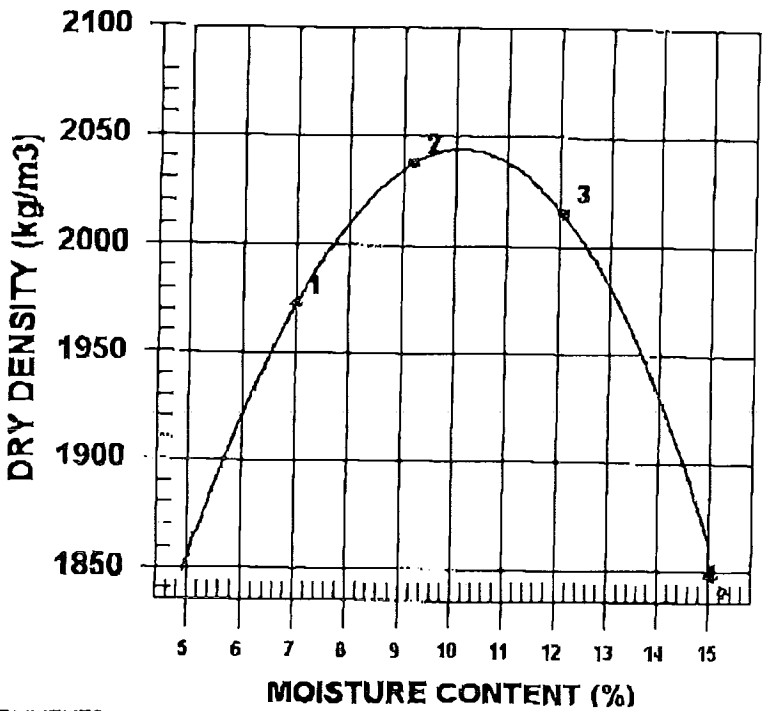
PROJECT NO. K 2036
CLIENT Mount Polley Mining Corp. Attn:
c.c. Knight Piesold Consulting

PROJECT M.P. Construction Program Stage 4/5
Materials Testing
CONTRACTOR Mount Polley Mining Corp.
Likely

PROCTOR NO. 9 DATE TESTED 2006.Oct.11 DATE RECEIVED 2006.Oct.05 DATE SAMPLED 2006.Oct.02

INSITU MOISTURE N/A %
SAMPLED BY CLIENT-EC
TESTED BY JE
SUPPLIER Leach Pad
SOURCE R2-SS-LP-XS
MATERIAL IDENTIFICATION
MAJOR COMPONENT TILL
SIZE 50MM
DESCRIPTION
ROCK TYPE

COMPACTION STANDARD Standard Proctor, ASTM D698
COMPACTION PROCEDURE A: 101.6mm Mold, Passing 4.75mm
RAMMER TYPE Manual
PREPARATION Moist
OVERSIZE CORRECTION METHOD ASTM 4718
RETAINED 4.75mm SCREEN 16.5 %
OVERSIZE SPECIFIC GRAVITY 2.65
TOTAL NUMBER OF TRIALS 4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2110	1972	7.0
2	2224	2037	9.2
3	2259	2015	12.1
4	2121	1840	15.3

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2040	10.0
OVERSIZE CORRECTED	2120	8.5

COMMENTS

Knight Piésold
CONSULTING

APPENDIX B

NUCLEAR DENSOMETER TESTS

(Page B1 to B3)

TABLE B1

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TEST HEAP LEACH PAD CONSTRUCTION PROGRAM

SOIL LINER FIELD COMPACTION

TEST NO.	FIELD COMPACTION				
	Dry Density (kg/m^3)	Moisture Content (%)	Compaction (%)	Compaction Specification (%)	Pass or Fail
1	2079	10.1	99.5	95	Pass
2	1986	9.8	95.0	95	Pass
3	1998	10.5	95.6	95	Pass
4	2033	9.6	97.3	95	Pass
5	2089	8.3	100.0	95	Pass
6	2053	9.5	98.2	95	Pass
7	2061	9.7	98.6	95	Pass
8	2104	10.0	100.7	95	Pass
9	2092	10.5	100.1	95	Pass
10	2075	10.4	99.3	95	Pass
11	2112	9.7	101.1	95	Pass
12	2009	9.9	96.1	95	Pass
13	2169	9.4	103.8	95	Pass
14	2080	9.5	99.5	95	Pass
15	2091	10.0	100.0	95	Pass
16	2069	10.2	99.0	95	Pass
17	2116	9.9	101.2	95	Pass
18	2096	10.8	100.3	95	Pass
19	2108	10.5	100.9	95	Pass
20	2067	9.4	98.9	95	Pass
21	2135	9.8	102.2	95	Pass
22	2091	10.5	100.0	95	Pass
23	2059	11.0	98.5	95	Pass
24	2154	9.6	103.1	95	Pass
25	2030	10.6	97.1	95	Pass
26	2045	8.6	97.8	95	Pass
27	2013	9.3	96.3	95	Pass
28	2086	8.0	99.8	95	Pass
29	2082	9.3	99.6	95	Pass
30	2112	11.0	101.1	95	Pass
31	2158	9.6	103.3	95	Pass
32	2091	9.2	100.0	95	Pass
33	2136	9.6	102.2	95	Pass
34	2165	9.0	103.6	95	Pass
35	2179	9.4	104.3	95	Pass

TABLE B1

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TEST HEAP LEACH PAD CONSTRUCTION PROGRAM

SOIL LINER FIELD COMPACTION

TEST NO.	FIELD COMPACTION				
	Dry Density (kg/m^3)	Moisture Content (%)	Compaction (%)	Compaction Specification (%)	Pass or Fail
36	2170	9.2	103.8	95	Pass
37	2203	9.1	105.4	95	Pass
38	2189	8.7	104.7	95	Pass
39	2192	9.0	104.9	95	Pass
40	2151	9.2	102.9	95	Pass
41	2173	9.1	104.0	95	Pass
42	2109	9.9	100.9	95	Pass
43	2172	9.0	103.9	95	Pass
44	2085	10.2	99.8	95	Pass
45	2115	10.4	101.2	95	Pass
46	2062	11.0	98.7	95	Pass
47	2048	11.8	98.0	95	Pass
48	2089	9.4	100.0	95	Pass
49	2144	9.7	102.6	95	Pass
50	2048	11.4	98.0	95	Pass
51	2053	11.4	98.2	95	Pass
52	2050	9.9	98.1	95	Pass
53	2082	11.0	99.6	95	Pass
54	2082	10.2	99.6	95	Pass
55	2003	12.0	95.8	95	Pass
56	2089	10.9	100.0	95	Pass
57	2086	10.8	99.8	95	Pass
58	2035	11.7	97.4	95	Pass
59	2046	12.0	97.9	95	Pass
60	2089	10.2	100.0	95	Pass
61	2087	11.3	99.9	95	Pass
62	2112	10.6	101.1	95	Pass
63	2135	10.5	102.2	95	Pass
64	2168	9.4	103.7	95	Pass
65	2137	10.1	102.2	95	Pass
66	2097	9.8	100.3	95	Pass
67	2098	11.6	100.4	95	Pass
68	2144	9.9	102.6	95	Pass
69	2032	10.9	97.2	95	Pass
70	2009	10.1	96.1	95	Pass

TABLE B1

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TEST HEAP LEACH PAD CONSTRUCTION PROGRAM

SOIL LINER FIELD COMPACTION

TEST NO.	FIELD COMPACTION				
	Dry Density (kg/m^3)	Moisture Content (%)	Compaction (%)	Compaction Specification (%)	Pass or Fail
71	2128	9.7	101.8	95	Pass
72	2084	11.4	99.7	95	Pass
73	2059	12.1	98.5	95	Pass
74	2121	8.7	101.5	95	Pass
75	2099	9.8	100.4	95	Pass
76	2061	9.8	98.6	95	Pass
77	2170	9.5	103.8	95	Pass
78	2086	10.9	99.8	95	Pass
79	2113	11.9	101.1	95	Pass
80	2109	11.4	100.9	95	Pass
81	2054	11.2	98.3	95	Pass
82	2087	10.2	99.9	95	Pass
83	2059	10.6	98.5	95	Pass
84	2047	9.7	97.9	95	Pass
85	2011	10.4	96.2	95	Pass
86	2093	11.0	100.1	95	Pass
87	2050	10.3	98.1	95	Pass
88	2060	9.9	98.6	95	Pass
89	2039	11.3	97.6	95	Pass
Min	1986	8.0	95.0		
Max	2203	12.1	105.4		
Median	2089	10.0	100.0		

M:\1\01\00001\17\A\Report\1-Construction Report\Rev 0\Appendices\Appendix B - Nuclear Densometer Tests\[Field Compaction Leach Pad 2006.xls]Nuke Field Sheet-2006 (2)

Revised March 5, 2007

Knight Piésold
CONSULTING

APPENDIX C

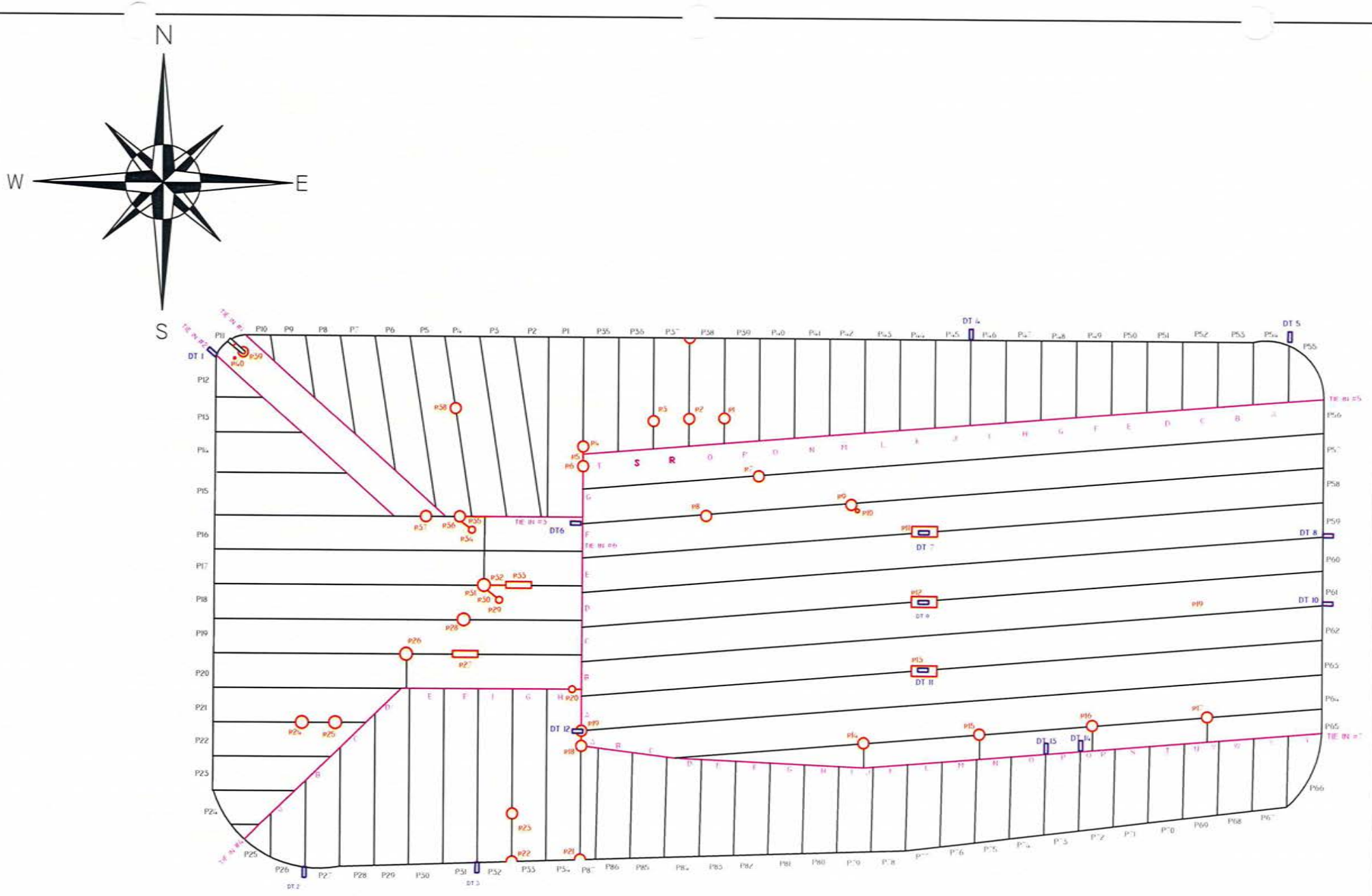
GEOSYNTHETICS QA/QC DATA

(Pages C1 to C129)

Quality Assurance/ Quality Control Data

Mount Polley
Head Leach Pad

Table of Contents



C2

MOUNT POLLY LEACH PAD
PRIMARY LINER AS-BUILT

DWN BY:	
DATE:	
FILENAME:	
SCALE:	N.T.S.

Nilex Inc.
9304-39 Avenue
Edmonton AB

NILEX

Nilex Construction Inc.
9304-39 Avenue
Edmonton, Alberta
T6E 5T9
PH: (800) 667- 4811
FAX: (780) 463-1773

EXTRUSION WELDING QUALIFICATION

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	23-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMPERATURE	PREHEAT TEMP.
1	12:30	WH	s 3	235	240

TENSOMETER PEEL	lbs/in	% SEPARATION	COMMENTS
#1	123	0	pass
#2	124	0	pass
#3	99	0	pass
#4	100	0	pass
#5	101	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	149	>200%	pass
#2	139	>200%	pass

QC Technician _____

QA/QC Approval _____

Nilex Construction Inc.
9304-39 Avenue
Edmonton, Alberta
T6E 5T9
PH: (800) 667- 4811
FAX: (780) 463-1773

EXTRUSION WELDING QUALIFICATION

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	24-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMPERATURE	PREHEAT TEMP.
2	10:40	WH	s 3	240	250

TENSOMETER PEEL	lbs/in	% SEPARATION	COMMENTS
#1	111	0	pass
#2	108	0	pass
#3	104	0	pass
#4	109	0	pass
#5	106	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	173	>200%	pass
#2	173	>200%	pass

QC Technician _____

QA/QC Approval _____

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9304-39 Avenue
Edmonton, Alberta
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PH: (800) 667- 4811
FAX: (780) 463-1773

EXTRUSION WELDING QUALIFICATION

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	25-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMPERATURE	PREHEAT TEMP.
3	9:00	WH	s 3	238	245

TENSOMETER PEEL	lbs/in	% SEPARATION	COMMENTS
#1	98	0	pass
#2	99	0	pass
#3	100	0	pass
#4	94	0	pass
#5	99	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	169	>200%	pass
#2	170	>200%	pass

QC Technician _____

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EXTRUSION WELDING QUALIFICATION

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	30-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMPERATURE	PREHEAT TEMP.
4	8:30	WH	s 3	238	245

TENSOMETER PEEL	lbs/in	% SEPARATION	COMMENTS
#1	121	0	pass
#2	120	0	pass
#3	118	0	pass
#4	118	0	pass
#5	118	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	150	>200%	pass
#2	156	>200%	pass

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FAX: (780) 463-1773

EXTRUSION WELDING QUALIFICATION

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	31-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMPERATURE	PREHEAT TEMP.
5	10:00	WH	s 3	236	240

TENSOMETER PEEL	lbs/in	% SEPARATION	COMMENTS
#1	**126**	**0**	pass
#2	**140**	**0**	pass
#3	**125**	**0**	pass
#4	**127**	**0**	pass
#5	**145**	**0**	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	181	>200%	pass
#2	172	>200%	pass

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EXTRUSION WELDING QUALIFICATION

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	31-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMPERATURE	PREHEAT TEMP.
6	1:30	WH	s 3	238	240

TENSOMETER PEEL	lbs/in	% SEPARATION	COMMENTS
#1	116	0	pass
#2	91	0	pass
#3	118	0	pass
#4	118	0	pass
#5	123	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	164	>200%	pass
#2	162	>200%	pass

QC Technician _____

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EXTRUSION WELDING QUALIFICATION

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	1-Nov-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMPERATURE	PREHEAT TEMP.
7	WH	9:00	s 3	238	245

TENSOMETER PEEL	lbs/in	% SEPARATION	COMMENTS
#1	**124**	**0**	pass
#2	**121**	**0**	pass
#3	**110**	**0**	pass
#4	**121**	**0**	pass
#5	**119**	**0**	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	177	>200%	pass
#2	190	>200%	pass

QC Technician _____

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FAX: (780) 463-1773

EXTRUSION WELDING QUALIFICATION

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	2-Nov-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMPERATURE	PREHEAT TEMP.
8	9:00	WH	s 3	236	243

TENSOMETER PEEL	lbs/in	% SEPARATION	COMMENTS
#1	**97**	**0**	pass
#2	**107**	**0**	pass
#3	**93**	**0**	pass
#4	**95**	**0**	pass
#5	**106**	**0**	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	164	>200%	pass
#2	171	>200%	pass

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9304-39 Avenue
Edmonton, Alberta
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EXTRUSION WELDING QUALIFICATION

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	10-Nov-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMPERATURE	PREHEAT TEMP.
9	8:50	GW	D 3	245	255

TENSOMETER PEEL	lbs/in	% SEPARATION	COMMENTS
#1	88	0	pass
#2	91	0	pass
#3	93	0	pass
#4	93	0	pass
#5	92	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	160	>200%	pass
#2	160	>200%	pass

QC Technician _____

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FAX: (780) 463-1773

EXTRUSION WELDING QUALIFICATION

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	11-Nov-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMPERATURE	PREHEAT TEMP.
10	9:00	GW	D 3	245	255

TENSOMETER PEEL	lbs/in	% SEPARATION	COMMENTS
#1	93	0	pass
#2	96	0	pass
#3	116	0	pass
#4	88	0	pass
#5	89	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	143	>200%	pass
#2	140	>200%	pass

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EXTRUSION WELDING QUALIFICATION

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	12-Nov-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMPERATURE	PREHEAT TEMP.
11	9:30	GW	D #	245	265

TENSOMETER PEEL	lbs/in	% SEPARATION	COMMENTS
#1	92	0	pass
#2	102	0	pass
#3	118	0	pass
#4	90	0	pass
#5	109	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	144	>200%	pass
#2	144	>200%	pass

QC Technician _____

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EXTRUSION WELDING QUALIFICATION

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	14-Nov-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMPERATURE	PREHEAT TEMP.
12	9:00	GW	PW 2	235	7

TENSOMETER PEEL	lbs/in	% SEPARATION	COMMENTS
#1	97	0	pass
#2	107	0	pass
#3	109	0	pass
#4	112	0	pass
#5	114	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	172	>200%	pass
#2	163	>200%	pass

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FAX: (780) 463-1773

WEDGE WELDER QUALIFICATION

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	23-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMP	MACHINE SPEED ft/min
1	1:30	DM	c 2	365	8.6

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	129	0	140	0	pass
#2	134	0	127	0	pass
#3	144	0	131	0	pass
#4	136	0	137	0	pass
#5	137	0	127	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	178	>200%	pass
#2	180	>200%	pass

QC Technician _____

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Edmonton, Alberta
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PH: (800) 667- 4811
FAX: (780) 463-1773

WEDGE WELDER QUALIFICATION

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	23-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMP	MACHINE SPEED ft/min
2	1:15	DoM	nsc 7	385	8

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	133	0	133	0	pass
#2	136	0	131	0	pass
#3	140	0	133	0	pass
#4	132	0	118	0	pass
#5	126	0	127	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	180	>200%	pass
#2	178	>200%	pass

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WEDGE WELDER QUALIFICATION

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	24-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMP	MACHINE SPEED ft/min
3	8:00	DM	c 2	365	8

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	133	0	143	0	pass
#2	133	0	133	0	pass
#3	124	0	128	0	pass
#4	130	0	127	0	pass
#5	142	0	125	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	173	>200%	pass
#2	175	>200%	pass

QC Technician _____

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WEDGE WELDER QUALIFICATION

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	24-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMP	MACHINE SPEED ft/min
4	8:30	DoM	c 69	365	8

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	125	0	138	0	pass
#2	124	0	126	0	pass
#3	141	0	119	0	pass
#4	135	0	119	0	pass
#5	144	0	125	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	175	>200%	pass
#2	175	>200%	pass

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WEDGE WELDER QUALIFICATION

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	30-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMP	MACHINE SPEED ft/min
5	1:30	DM	c 69	365	8

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	135	0	131	0	pass
#2	144	0	129	0	pass
#3	130	0	143	0	pass
#4	138	0	136	0	pass
#5	136	0	126	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	164	>200%	pass
#2	168	>200%	pass

QC Technician _____

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WEDGE WELDER QUALIFICATION

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	31-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMP	MACHINE SPEED ft/min
6	7:45	DM	c 69	365	7.5

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	130	0	146	0	pass
#2	146	0	139	0	pass
#3	147	0	148	0	pass
#4	180	0	143	0	pass
#5	135	0	142	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	219	>200%	pass
#2	220	>200%	pass

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WEDGE WELDER QUALIFICATION

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	31-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMP	MACHINE SPEED ft/min
7	12:45	DM	c 69	365	8

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	133	0	130	0	pass
#2	132	0	132	0	pass
#3	121	0	125	0	pass
#4	136	0	129	0	pass
#5	129	0	124	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	178	>200%	pass
#2	177	>200%	pass

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WEDGE WELDER QUALIFICATION

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	1-Nov-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMP	MACHINE SPEED ft/min
8	7:50	DM	c 69	365	7.5

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	144	0	134	0	pass
#2	142	0	131	0	pass
#3	146	0	131	0	pass
#4	118	0	134	0	pass
#5	121	0	109	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	159	>200%	pass
#2	159	>200%	pass

QC Technician _____

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WEDGE WELDER QUALIFICATION

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	2-Nov-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMP	MACHINE SPEED ft/min
9	8:00	DM	c 69	365	7.7

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	145	0	138	0	pass
#2	126	0	128	0	pass
#3	120	0	123	0	pass
#4	127	0	127	0	pass
#5	125	0	124	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	147	>200%	pass
#2	157	>200%	pass

QC Technician _____

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Nilex Construction Inc.
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Edmonton, Alberta
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FAX: (780) 463-1773

PANEL PLACEMENT LOG

PROJECT NAME: Mount Polley Leach Pad **ENGINEER:**

PROJECT No.: 62479 **QC TECHNICIAN:** Gary Watkins

CONTRACTOR: **MATERIAL:** 60 mil HDPE

OWNER: Imperial Metals

Panel No.	Roll No.	Deployment Date	Panel Dimentions		Square Feet
			Length (ft.)	Width (ft.)	
1	1011120153	23-Oct-06	112	22	2464
2	1011120153	23-Oct-06	112	22	2464
3	101120152	23-Oct-06	112	22	2464
4	101120152	23-Oct-06	112	22	2464
5	101120152	23-Oct-06	112	22	2464
6	101120152	23-Oct-06	112	22	2464
7	101120152	23-Oct-06	107	22	2354
8	101120140	23-Oct-06	72	22	1584
9	101120140	23-Oct-06	50	22	1100
10	101120140	23-Oct-06	27	16	432
11	101120140	23-Oct-06	165	22	3630
12	101120140	23-Oct-06	27	22	594
13	101120146	23-Oct-06	53	22	1166
14	101120146	23-Oct-06	84	22	1848
15	101120140	23-Oct-06	115	22	2530
16	101120140	23-Oct-06	225	22	4950
17	101120146	23-Oct-06	225	22	4950
				TOTAL	39922

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Nilex Construction Inc.
9304-39 Avenue
Edmonton, Alberta
T6E 5T9
PH: (800) 667- 4811
FAX: (780) 463-1773

PANEL PLACEMENT LOG

PROJECT NAME: Mount Polley Leach Pad
ENGINEER:
PROJECT No.: 62479
QC TECHNICIAN: Gary Watkins
CONTRACTOR:
MATERIAL: 60 mil HDPE
OWNER: Imperial Metals

Panel No.	Roll No.	Deployment Date	Panel Dimentions		Square Feet
			Length (ft.)	Width (ft.)	
18	101120146	23-Oct-06	225	22	4950
19	101120141	23-Oct-06	225	22	4950
20	101120141	23-Oct-06	225	22	4950
21	1011120153	24-Oct-06	120	22	2640
22	101120143	24-Oct-06	96	22	2112
23	101120143	24-Oct-06	74	22	1628
24	101120143	24-Oct-06	51	22	1122
25	102126044	24-Oct-06	28	22	616
26	102126044	24-Oct-06	56	22	1232
27	102126044	24-Oct-06	76	22	1672
28	102126044	24-Oct-06	97	22	2134
29	102126044	24-Oct-06	108	22	2376
30	102126044	24-Oct-06	108	22	2376
31	102126044	24-Oct-06	108	22	2376
32	101120143	24-Oct-06	108	22	2376
33	101120143	24-Oct-06	108	22	2376
34	101120143	24-Oct-06	108	22	2376
				TOTAL	42262

QC Technician

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Nilex Construction Inc.
9304-39 Avenue
Edmonton, Alberta
T6E 5T9
PH: (800) 667- 4811
FAX: (780) 463-1773

PANEL PLACEMENT LOG

PROJECT NAME: Mount Polley Leach Pad **ENGINEER:**

PROJECT No.: 62479 **QC TECHNICIAN:** Gary Watkins

CONTRACTOR: **MATERIAL:** 60 mil HDPE

OWNER: Imperial Metals

Panel No.	Roll No.	Deployment Date	Panel Dimentions		Square Feet
			Length (ft.)	Width (ft.)	
35	101120145	30-Oct-06	76	22	1672
36	101120145	30-Oct-06	74	22	1628
37	101120145	30-Oct-06	72	22	1584
38	101120145	30-Oct-06	70	22	1540
39	101120145	30-Oct-06	66	22	1452
40	101120145	30-Oct-06	64	22	1408
41	101120145	30-Oct-06	64	22	1408
42	102126052	30-Oct-06	63	22	1386
43	102126052	30-Oct-06	61	22	1342
44	102126052	30-Oct-06	59	22	1298
45	102126052	30-Oct-06	57	22	1254
46	102126052	30-Oct-06	55	22	1210
47	102126052	30-Oct-06	53	22	1166
48	102126052	30-Oct-06	51	22	1122
49	102126052	30-Oct-06	50	22	1100
50	102126052	30-Oct-06	48	22	1056
51	102126050	30-Oct-06	46	22	1012
				TOTAL	22638

QC Technician _____

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PANEL PLACEMENT LOG

PROJECT NAME: Mount Polley Leach Pad **ENGINEER:**

PROJECT No.: 62479 **QC TECHNICIAN:** Gary Watkins

CONTRACTOR: **MATERIAL:** 60 mil HDPE

OWNER: Imperial Metals

Panel No.	Roll No.	Deployment Date	Panel Dimentions		Square Feet
			Length (ft.)	Width (ft.)	
52	102126050	30-Oct-06	44	22	968
53	102126050	30-Oct-06	42	22	924
54	102126050	30-Oct-06	40	22	880
55	102126050	30-Oct-06	35	22	770
56	101120142	26-Oct-06	477	22	10494
57	102126046	26-Oct-06	477	22	10494
58	102126063	31-Oct-06	477	22	10494
59	102126051	31-Oct-06	477	22	10494
60	102126053	31-Oct-06	477	22	10494
61	102126054	31-Oct-06	477	22	10494
62	102126073	31-Oct-06	477	22	10494
63	102126072	31-Oct-06	477	22	10494
64	102126071	1-Nov-06	477	22	10494
65A	102126072	2-Nov-06	73	11	803
65B	102126072	2-Nov-06	73	11	803
65C	102126071	2-Nov-06	72	11	792
65D	102126071	2-Nov-06	74	11	814
				TOTAL	101200

QC Technician

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PANEL PLACEMENT LOG

PROJECT NAME: Mount Polley Leach Pad **ENGINEER:**

PROJECT No.: 62479 **QC TECHNICIAN:** Gary Watkins

CONTRACTOR: **MATERIAL:** 60 mil HDPE

OWNER: Imperial Metals

Panel No.	Roll No.	Deployment Date	Panel Dimentions		Square Feet
			Length (ft.)	Width (ft.)	
65E	102126071	2-Nov-06	115	11	1265
66	101120142	2-Nov-06	46	22	1012
67	102126038	2-Nov-06	47	22	1034
68	101120146	2-Nov-06	48	22	1056
69	101120141	2-Nov-06	49	22	1078
70	102126073	2-Nov-06	50	22	1100
71	102126054	2-Nov-06	51	22	1122
72	102126053	2-Nov-06	52	22	1144
73	102126041	2-Nov-06	53	22	1166
74	102126063	2-Nov-06	54	22	1188
75	102126036	2-Nov-06	55	22	1210
76	102126037	2-Nov-06	55	22	1210
77	101120135	2-Nov-06	56	22	1232
78	101120646	2-Nov-06	56	22	1232
79	101120138	2-Nov-06	57	22	1254
80	102126050	2-Nov-06	58	22	1276
81	102126050	2-Nov-06	60	22	1320
				TOTAL	19899

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PANEL PLACEMENT LOG

PROJECT NAME: Mount Polley Leach Pad **ENGINEER:**

PROJECT No.: 62479 **QC TECHNICIAN:** Gary Watkins

CONTRACTOR: **MATERIAL:** 60 mil HDPE

OWNER: Imperial Metals

Panel No.	Roll No.	Deployment Date	Panel Dimentions		Square Feet
			Length (ft.)	Width (ft.)	
82	102126050	2-Nov-06	61	22	1342
83	102126050	2-Nov-06	63	22	1386
84	102126070	2-Nov-06	65	22	1430
85	102126070	2-Nov-06	69	22	1518
86	102126070	2-Nov-06	72	22	1584
87	102126070	2-Nov-06	76	12	912
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
				TOTAL	8172

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GEOMEMBRANE SEAM PRESSURE TESTING LOG

PROJECT NAME: Mount Polley Leach Pad
ENGINEER:
PROJECT No.: 62479
QC TECHNICIAN: Gary Watkins
CONTRACTOR:
MATERIAL: 60 mil HDPE
OWNER: Imperial Metals

Seam No.	Date Welded	Date Tested	Operator	Machine Name & Unit No.	Pressure		Time		Comments
					Start	Finish	Start	Finish	
1\2	10/23/2006	11/10/2006	DM	concord 2	53	53	12:40	12:45	pass
2\3	10/23/2006	11/10/2006	DM	concord 2	40	38	12:40	12:45	pass
3\4	10/23/2006	11/10/2006	DM	concord 2	50	50	12:40	12:45	pass
4\5	10/23/2006	11/10/2006	DM	concord 2	43	42	12:49	12:54	pass
5\6	10/23/2006	11/10/2006	DM	concord 2	43	43	12:49	12:54	pass
6\7	10/23/2006	11/10/2006	DM	concord 2	45	45	12:49	12:54	pass
7\8	10/23/2006	11/10/2006	DM	concord 2	45	45	1:15	1:20	pass
8\9	10/23/2006	11/10/2006	DM	concord 2	43	43	1:30	1:35	pass
9\10	10/23/2006	11/10/2006	DM	concord 2	45	45	1:30	1:35	pass
tie in 1	10/23/2006	11/10/2006	DoM	nsc 7	44	43	2:00	2:05	pass
tie in 2	10/23/2006	11/10/2006	DoM	nsc 7	47	46	1:36	1:41	pass
12\13	10/23/2006	11/10/2006	DM	concord 2	60	58	2:08	2:13	pass
13\14	10/23/2006	11/10/2006	DM	concord 2	50	49	1:49	1:54	pass
14\15	10/23/2006	11/10/2006	DM	concord 2	43	41	2:02	2:07	pass
15\16	10/23/2006	11/10/2006	DoM	nsc 7	42	40	1:53	1:58	pass
16\17	10/23/2006	11/10/2006	DM	concord 2	58	58	2:16	2:21	pass
17\18	10/23/2006	11/13/2006	DoM	nsc 7	43	42	3:26	3:31	pass
18\19	10/23/2006	11/10/2006	DM	concord 2	52	52	2:22	2:27	pass

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GEOMEMBRANE SEAM PRESSURE TESTING LOG

PROJECT NAME: Mount Polley Leach Pad **ENGINEER:**

PROJECT No.: 62479 **QC TECHNICIAN:** Gary Watkins

CONTRACTOR: **MATERIAL:** 60 mil HDPE

OWNER: Imperial Metals

Seam No.	Date Welded	Date Tested	Operator	Machine Name & Unit No.	Pressure		Time		Comments
					Start	Finish	Start	Finish	
19\20	10/23/2006	11/12/2006	DM	concord 2	47	47	4:09	4:14	pass
20\21	10/23/2006	11/12/2006	DM	concord 2	43	42	4:07	4:12	pass
21\22A	10/23/2006	11/12/2006	DoM	nsc 7	46	46	3:52	3:57	pass
21\22B	10/23/2006	11/12/2006	DM	concord 2	62	62	3:52	3:57	pass
21\22C	10/23/2006	11/12/2006	DM	concord 2	48	48	3:45	3:50	pass
22\23	10/23/2006	11/12/2006	DoM	nsc 7	43	43	3:35	3:40	pass
23\24	10/23/2006	11/12/2006	DoM	nsc 7	50	48	3:32	3:37	pass
25\26	10/24/2006	11/12/2006	DM	concord 69	53	53	3:24	3:29	pass
26\27	10/24/2006	11/12/2006	DM	concord 69	48	48	3:18	3:23	pass
27\28	10/24/2006	11/12/2006	DM	concord 69	54	54	3:11	3:16	pass
28\29	10/24/2006	11/12/2006	DM	concord 69	40	38	3:12	3:17	pass
29\30	10/24/2006	11/12/2006	DM	concord 69	52	50	2:55	3:00	pass
30\31	10/24/2006	11/12/2006	DM	concord 69	48	48	2:55	3:00	pass
31\32	10/24/2006	11/12/2006	DM	concord 69	48	48	2:55	3:00	pass
32\33	10/24/2006	11/12/2006	DM	concord 69	51	51	2:40	2:45	pass
32\33A	10/24/2006	11/12/2006	DM	concord 69	45	45	2:35	2:40	pass
33\34	10/24/2006	11/12/2006	DM	concord 69	54	54	2:40	2:45	pass

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PROJECT NAME: Mount Polley Leach Pad **ENGINEER:**

PROJECT No.: 62479 **QC TECHNICIAN:** Gary Watkins

CONTRACTOR: **MATERIAL:** 60 mil HDPE

OWNER: Imperial Metals

Seam No.	Date Welded	Date Tested	Operator	Machine Name & Unit No.	Pressure		Time		Comments
					Start	Finish	Start	Finish	
tie in 4A	10/24/2006	11/12/2006	DM	concord 69	40	40	11:21	11:26	pass
B	10/24/2006	11/12/2006	DM	concord 69	60	58	11:21	11:26	pass
C	10/24/2006	11/12/2006	DM	concord 69	48	47	11:21	11:26	pass
D	10/24/2006	11/12/2006	DM	concord 69	43	43	11:32	11:37	pass
E	10/24/2006	11/12/2006	DM	concord 69	46	46	1:05	1:10	pass
F	10/24/2006	11/12/2006	DM	concord 69	45	45	11:34	11:39	pass
G	10/24/2006	11/12/2006	DM	concord 69	59	58	11:40	11:45	pass
H	10/24/2006	11/12/2006	DM	concord 69	54	53	11:40	11:45	pass
I	10/24/2006	11/12/2006	DM	concord 69	39	39	11:56	12:01	pass
sump seam 1	10/23/2006	11/12/2006	DoM	NSC 7	43	43	9:31	9:36	pass
sump seam 2	10/23/2006	11/12/2006	DoM	NSC 7	49	49	1:12	1:17	pass
tie in 3	10/23/2006	11/14/2006	DoM	NSC 7	40	40	11:46	11:51	pass
16\17a	10/23/2006	11/14/2006	DoM	NSC 7	47	47	11:50	11:55	pass
17\18a	10/23/2006	11/14/2006	DoM	NSC 7	50	48	11:50	11:55	pass
18\19a	10/23/2006	11/14/2006	DoM	NSC 7	54	54	11:50	11:55	pass
19\20a	10/23/2006	11/14/2006	DoM	NSC 7	50	47	11:50	11:55	pass

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GEOMEMBRANE SEAM PRESSURE TESTING LOG

PROJECT NAME: Mount Polley Leach Pad **ENGINEER:**

PROJECT No.: 62479 **QC TECHNICIAN:** Gary Watkins

CONTRACTOR: **MATERIAL:** 60 mil HDPE

OWNER: Imperial Metals

Seam No.	Date Welded	Date Tested	Operator	Machine Name & Unit No.	Pressure		Time		Comments
					Start	Finish	Start	Finish	
tie in 7 A	2-Nov-06	14-Nov-06	DM	concord 69	50	49	1:00	1:05	pass
B	2-Nov-06	14-Nov-06	DM	concord 69	48	48	1:00	1:05	pass
C	2-Nov-06	14-Nov-06	DM	concord 69	50	47	1:02	1:07	pass
D	2-Nov-06	14-Nov-06	DM	concord 69	42	41	1:10	1:15	pass
E	2-Nov-06	14-Nov-06	DM	concord 69	61	60	1:10	1:15	pass
F	2-Nov-06	14-Nov-06	DM	concord 69	48	46	1:21	1:26	pass
G	2-Nov-06	14-Nov-06	DM	concord 69	50	47	1:21	1:26	pass
H	2-Nov-06	14-Nov-06	DM	concord 69	50	49	1:29	1:34	pass
I	2-Nov-06	14-Nov-06	DM	concord 69	61	60	1:29	1:34	pass
J	2-Nov-06	14-Nov-06	DM	concord 69	44	43	1:36	1:41	pass
K	2-Nov-06	14-Nov-06	DM	concord 69	65	65	1:36	1:41	pass
L	2-Nov-06	14-Nov-06	DM	concord 69	49	49	1:46	1:51	pass
M	2-Nov-06	14-Nov-06	DM	concord 69	61	60	1:46	1:51	pass
N	2-Nov-06	14-Nov-06	DM	concord 69	58	56	1:54	1:59	pass
O	2-Nov-06	14-Nov-06	DM	concord 69	70	68	1:54	1:59	pass
P	2-Nov-06	14-Nov-06	DM	concord 69	43	42	2:05	2:10	pass
Q	2-Nov-06	14-Nov-06	DM	concord 69	54	53	2:05	2:10	pass
R	2-Nov-06	14-Nov-06	DM	concord 69	49	48	2:12	2:17	pass

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PROJECT NAME: Mount Polley Leach Pad **ENGINEER:**

PROJECT No.: 62479 **QC TECHNICIAN:** Gary Watkins

CONTRACTOR: **MATERIAL:** 60 mil HDPE

OWNER: Imperial Metals

Seam No.	Date Welded	Date Tested	Operator	Machine Name & Unit No.	Pressure		Time		Comments
					Start	Finish	Start	Finish	
tie in 7 s	2-Nov-06	14-Nov-06	DM	concord 69	50	49	2:12	2:17	pass
T	2-Nov-06	14-Nov-06	DM	concord 69	49	46	2:22	2:27	pass
U	2-Nov-06	14-Nov-06	DM	concord 69	49	48	2:22	2:27	pass
V	2-Nov-06	14-Nov-06	DM	concord 69	42	41	2:36	2:41	pass
W	2-Nov-06	14-Nov-06	DM	concord 69	45	45	2:30	2:35	pass
X	2-Nov-06	14-Nov-06	DM	concord 69	60	60	2:33	2:38	pass
Y	2-Nov-06	14-Nov-06	DM	concord 69	59	59	3:40	3:45	pass

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GEOMEMBRANE SEAM PRESSURE TESTING LOG

PROJECT NAME: Mount Polley Leach Pad
ENGINEER:
PROJECT No.: 62479
QC TECHNICIAN: Gary Watkins
CONTRACTOR:
MATERIAL: 60 mil HDPE
OWNER: Imperial Metals

Seam No.	Date Welded	Date Tested	Operator	Machine Name & Unit No.	Pressure		Time		Comments
					Start	Finish	Start	Finish	
35\36	10/30/2006	10/31/2006	DM	Concord 69	50	50	2:20	2:25	pass
36\37	10/30/2006	10/31/2006	DoM	Concord 2	52	50	2:11	2:16	pass
36\37A	10/30/2006	10/31/2006	DoM	Concord 2	41	41	2:34	2:39	pass
37\38	10/30/2006	10/31/2006	DM	Concord 69	40	39	2:05	2:10	pass
37\38A	10/30/2006	10/31/2006	DM	Concord 69	48	47	2:35	2:40	pass
38\39	10/30/2006	10/31/2006	DoM	Concord 2	42	42	2:05	2:10	pass
38\39A	10/30/2006	10/31/2006	DoM	Concord 2	42	41	2:35	2:40	pass
39\40	10/30/2006	10/31/2006	DM	Concord 69	52	52	2:35	2:40	pass
40\41	10/30/2006	10/31/2006	DM	Concord 69	45	45	2:45	2:50	pass
41\42	10/30/2006	10/31/2006	DM	Concord 69	47	47	2:45	2:50	pass
42\43	10/30/2006	10/31/2006	DM	Concord 69	56	56	2:45	2:50	pass
43\44	10/30/2006	10/31/2006	DM	Concord 69	54	52	2:45	2:50	pass
44\45	10/30/2006	10/31/2006	DM	Concord 69	42	42	2:50	2:55	pass
45\46	10/30/2006	10/31/2006	DM	Concord 69	45	45	2:50	2:55	pass
46\47	10/30/2006	10/31/2006	DM	Concord 69	48	48	2:50	2:55	pass
47\48	10/30/2006	10/31/2006	DM	Concord 69	46	46	2:55	3:00	pass
48\49	10/30/2006	10/31/2006	DM	Concord 69	39	39	3:05	3:10	pass
49\50	10/30/2006	10/31/2006	DM	Concord 69	50	50	3:05	3:10	pass

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GEOMEMBRANE SEAM PRESSURE TESTING LOG

PROJECT NAME: Mount Polley Leach Pad **ENGINEER:**

PROJECT No.: 62479 **QC TECHNICIAN:** Gary Watkins

CONTRACTOR: **MATERIAL:** 60 mil HDPE

OWNER: Imperial Metals

Seam No.	Date Welded	Date Tested	Operator	Machine Name & Unit No.	Pressure		Time		Comments
					Start	Finish	Start	Finish	
50\51	10/30/2006	10/31/2006	DM	concord 69	46	46	3:05	3:10	pass
51\52	10/30/2006	10/31/2006	DM	concord 69	59	57	3:05	3:10	pass
52\53	10/30/2006	10/31/2006	DM	concord 69	42	42	3:13	3:18	pass
53\54	10/30/2006	10/31/2006	DM	concord 69	42	41	3:13	3:18	pass
54\55	10/30/2006	10/31/2006	DM	concord 69	46	46	3:13	3:18	pass
56\57	10/25/2006	10/31/2006	DM	concord 69	42	39	4:18	4:23	pass
56\57A	10/25/2006	10/31/2006	DM	concord 69	40	38	3:20	3:25	pass
tie in 5	10/30/2006	10/31/2006	DM	concord 69	44	43	11:44	11:49	pass
A	10/30/2006	10/31/2006	DM	concord 69	62	61	11:44	11:49	pass
B	10/30/2006	10/31/2006	DM	concord 69	40	40	11:55	12:00	pass
C	10/30/2006	10/31/2006	DM	concord 69	62	62	11:43	11:48	pass
D	10/30/2006	10/31/2006	DM	concord 69	38	36	11:52	11:57	pass
E	10/30/2006	10/31/2006	DM	concord 69	46	46	11:43	11:48	pass
F	10/30/2006	10/31/2006	DM	concord 69	48	48	11:43	11:48	pass
G	10/30/2006	10/31/2006	DM	concord 69	45	44	11:43	11:48	pass
H	10/30/2006	10/31/2006	DM	concord 69	39	39	1:49	1:54	pass
I	10/30/2006	10/31/2006	DM	concord 69	56	56	1:49	1:54	pass
J	10/30/2006	10/31/2006	DM	concord 69	43	43	1:49	1:54	pass

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GEOMEMBRANE SEAM PRESSURE TESTING LOG

PROJECT NAME: Mount Polley Leach Pad
ENGINEER:
PROJECT No.: 62479
QC TECHNICIAN: Gary Watkins
CONTRACTOR:
MATERIAL: 60 mil HDPE
OWNER: Imperial Metals

Seam No.	Date Welded	Date Tested	Operator	Machine Name & Unit No.	Pressure		Time		Comments
					Start	Finish	Start	Finish	
Tie in 5 K	10/30/2006	10/31/2006	DM	concord 69	55	54	1:49	1:54	pass
L	10/30/2006	10/31/2006	DM	concord 69	54	54	4:15	4:20	pass
M	10/30/2006	10/31/2006	DM	concord 69	41	41	1:56	2:01	pass
N	10/30/2006	10/31/2006	DM	concord 69	42	41	1:58	2:03	pass
O	10/30/2006	10/31/2006	DM	concord 69	57	56	1:58	2:03	pass
P	10/30/2006	10/31/2006	DM	concord 69	53	52	4:15	4:20	pass
Q	10/30/2006	10/31/2006	DM	concord 69	58	57	2:05	2:10	pass
R	10/30/2006	10/31/2006	DM	concord 69	46	46	2:11	2:16	pass
S	10/30/2006	10/31/2006	DM	concord 69	47	45	2:11	2:16	pass
T	10/30/2006	10/31/2006	DM	concord 69	50	49	2:20	2:25	pass
57\58	10/31/2006	10/31/2006	DM	concord 69	59	58	11:35	11:40	pass
57\58A	10/31/2006	10/31/2006	DM	concord 69	55	54	11:35	11:40	pass
57\58B	10/31/2006	10/31/2006	DM	concord 69	32	30	11:35	11:40	pass
58\59	10/31/2006	10/31/2006	DM	concord 69	52	52	3:38	3:43	pass
59\60	10/31/2006	10/31/2006	DM	concord 69	55	55	3:40	3:45	pass
60\61	10/31/2006	10/31/2006	DM	concord 69	60	61	3:40	3:45	pass
61\62	10/31/2006	11/1/2006	DM	concord 69	58	57	9:04	9:09	pass
62\63	10/31/2006	11/1/2006	DM	concord 69	49	49	9:12	9:17	pass

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PH: (800) 667- 4811
FAX: (780) 463-1773

GEOMEMBRANE SEAM PRESSURE TESTING LOG

PROJECT NAME: Mount Polley Leach Pad **ENGINEER:**

PROJECT No.: 62479 **QC TECHNICIAN:** Gary Watkins

CONTRACTOR: **MATERIAL:** 60 mil HDPE

OWNER: Imperial Metals

Seam No.	Date Welded	Date Tested	Operator	Machine Name & Unit No.	Pressure		Time		Comments
					Start	Finish	Start	Finish	pass
63\64	11/1/2006	11/2/2006	DM	Concord 69	42	42	9:05	9:10	pass
tie in 6A	11/1/2006	11/2/2006	DM	Concord 69	54	54	8:43	8:48	pass
B	11/1/2006	11/2/2006	DM	Concord 69	51	51	10:36	10:41	pass
C	11/1/2006	11/2/2006	DM	Concord 69	42	40	10:36	10:41	pass
D	11/1/2006	11/2/2006	DM	Concord 69	49	49	8:43	8:48	pass
E	11/1/2006	11/2/2006	DM	Concord 69	61	60	8:48	8:53	pass
F	11/1/2006	11/2/2006	DM	Concord 69	49	49	8:48	8:53	pass
G	11/1/2006	11/2/2006	DM	Concord 69	54	53	8:55	9:00	pass
1\35	11/1/2006	11/2/2006	DM	Concord 69	46	46	10:42	10:47	pass
64\65E	11/2/2006	11/2/2006	DM	Concord 69	57	54	9:15	9:20	pass
64\65D	11/2/2006	11/2/2006	DM	Concord 69	56	55	9:15	9:20	pass
65D\65E	11/2/2006	11/2/2006	DM	Concord 69	42	40	9:15	9:20	pass
65B\65C	11/2/2006	11/2/2006	DM	Concord 69	45	45	9:25	9:30	pass
64\65C	11/2/2006	11/2/2006	DM	Concord 69	54	54	9:25	9:30	pass
65B\65C	11/2/2006	11/2/2006	DM	Concord 69	56	54	9:29	9:34	pass
64\65B	11/2/2006	11/2/2006	DM	Concord 69	52	50	9:29	9:34	pass
64\65A	11/2/2006	11/2/2006	DM	Concord 69	58	56	9:35	9:40	pass
65A\65B	11/2/2006	11/2/2006	DM	Concord 69	46	45	9:35	9:40	pass

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GEOMEMBRANE SEAM PRESSURE TESTING LOG

PROJECT NAME: Mount Polley Leach Pad
ENGINEER:
PROJECT No.: 62479
QC TECHNICIAN: Gary Watkins
CONTRACTOR:
MATERIAL: 60 mil HDPE
OWNER: Imperial Metals

Seam No.	Date Welded	Date Tested	Operator	Machine Name & Unit No.	Pressure		Time		Comments
					Start	Finish	Start	Finish	
66\67	11/2/2006	11/2/2006	DM	Concord 69	52	49	11:00	11:05	pass
67\68	11/2/2006	11/2/2006	DM	Concord 69	51	50	11:03	11:08	pass
68\69	11/2/2006	11/2/2006	DM	Concord 69	59	58	11:05	11:10	pass
69\70	11/2/2006	11/2/2006	DM	Concord 69	53	53	11:13	11:18	pass
70\71	11/2/2006	11/2/2006	DM	Concord 69	60	58	11:44	11:49	pass
71\72	11/2/2006	11/2/2006	DM	Concord 69	41	40	11:43	11:48	pass
72\73	11/2/2006	11/2/2006	DM	Concord 69	54	54	1:17	1:22	pass
73\74	11/2/2006	11/2/2006	DM	Concord 69	53	53	1:17	1:22	pass
74\75	11/2/2006	11/2/2006	DM	Concord 69	42	41	1:17	1:22	pass
75\76	11/2/2006	11/2/2006	DM	Concord 69	42	42	1:17	1:22	pass
76\77	11/2/2006	11/2/2006	DM	Concord 69	49	49	1:33	1:38	pass
77\78	11/2/2006	11/2/2006	DM	Concord 69	52	49	1:33	1:38	pass
78\79	11/2/2006	11/2/2006	DM	Concord 69	53	53	1:33	1:38	pass
79\80	11/2/2006	11/2/2006	DM	Concord 69	54	54	2:07	2:12	pass
80\81	11/2/2006	11/2/2006	DM	Concord 69	52	52	2:07	2:12	pass
81\82	11/2/2006	11/2/2006	DM	Concord 69	49	48	2:07	2:12	pass
82\83	11/2/2006	11/2/2006	DM	Concord 69	54	54	2:32	2:37	pass
83\84	11/2/2006	11/2/2006	DM	Concord 69	59	59	2:32	2:37	pass

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GEOMEMBRANE SEAM PRESSURE TESTING LOG

PROJECT NAME: Mount Polley Leach Pad **ENGINEER:**

PROJECT No.: 62479 **QC TECHNICIAN:** Gary Watkins

CONTRACTOR: **MATERIAL:** 60 mil HDPE

OWNER: Imperial Metals

Seam No.	Date Welded	Date Tested	Operator	Machine Name & Unit No.	Pressure		Time		Comments
					Start	Finish	Start	Finish	
84\85	11/2/2006	11/2/2006	DM	Concord 69	52	52	3:02	3:07	pass
85\86	11/2/2006	11/2/2006	DM	Concord 69	56	56	3:02	3:07	pass
86\87	11/2/2006	11/2/2006	DM	Concord 69	55	55	3:02	3:07	pass
87\34	11/2/2006	11/2/2006	DM	Concord 69	54	52	3:10	3:15	pass

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	25-Oct-06

TEST LOCATION: tie in seam 1 (anchor trench) **COMMENTS:** DT # 1

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	160	0	121	0	pass
#2	125	0	105	0	pass
#3	119	0	140	0	pass
#4	122	0	111	0	pass
#5	132	0	112	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	200	>200%	pass
#2	198	>200%	pass
#3	199	>200%	pass
#4	195	>200%	pass
#5	179	>200%	pass

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	1-Nov-06
TEST LOCATION:	seam 26\27 (anchor trench)	**COMMENTS:**	DT # 2

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	120	0	127	0	pass
#2	119	0	130	0	pass
#3	126	0	121	0	pass
#4	128	0	124	0	pass
#5	134	0	120	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	178	>200%	pass
#2	173	>200%	pass
#3	176	>200%	pass
#4	173	>200%	pass
#5	173	>200%	pass

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	1-Nov-06
TEST LOCATION:	seam 31\32 (anchor trench)	**COMMENTS:**	DT # 3

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	116	0	116	0	pass
#2	112	0	124	0	pass
#3	124	0	121	0	pass
#4	122	0	114	0	pass
#5	130	0	109	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	188	>200%	pass
#2	169	>200%	pass
#3	182	>200%	pass
#4	181	>200%	pass
#5	181	>200%	pass

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	1-Nov-06
TEST LOCATION:	seam 45\46	**COMMENTS:**	DT # 4

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	132	0	132	0	pass
#2	132	0	120	0	pass
#3	153	0	137	0	pass
#4	127	0	133	0	pass
#5	123	0	141	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	191	>200%	pass
#2	196	>200%	pass
#3	199	>200%	pass
#4	193	>200%	pass
#5	194	>200%	pass

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	1-Nov-06
TEST LOCATION:	seam 54\55 (anchor trench)	**COMMENTS:**	DT #5

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	113	0	136	0	pass
#2	130	0	134	0	pass
#3	131	0	130	0	pass
#4	135	0	147	0	pass
#5	133	0	147	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	187	>200%	pass
#2	191	>200%	pass
#3	190	>200%	pass
#4	190	>200%	pass
#5	188	>200%	pass

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	1-Nov-06
TEST LOCATION:	seam 57\58 (cut off)	**COMMENTS:**	DT # 6

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	119	0	125	0	pass
#2	138	0	135	0	pass
#3	137	0	125	0	pass
#4	12	0	137	0	pass
#5	124	0	137	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	190	>200%	pass
#2	192	>200%	pass
#3	189	>200%	pass
#4	186	>200%	pass
#5	186	>200%	pass

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	1-Nov-06
TEST LOCATION:	seam 58\59 (floor)	**COMMENTS:**	DT # 7

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	146	0	123	0	pass
#2	154	0	117	0	pass
#3	155	0	121	0	pass
#4	136	0	112	0	pass
#5	136	0	125	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	185	>200%	pass
#2	180	>200%	pass
#3	178	>200%	pass
#4	183	>200%	pass
#5	183	>200%	pass

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	1-Nov-06
TEST LOCATION:	seam 59\60 (anchor trench)	**COMMENTS:**	DT # 8

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	121	0	114	0	pass
#2	121	0	131	0	pass
#3	126	0	116	0	pass
#4	121	0	114	0	pass
#5	133	0	114	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	181	>200%	pass
#2	182	>200%	pass
#3	186	>200%	pass
#4	184	>200%	pass
#5	183	>200%	pass

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	1-Nov-06
TEST LOCATION:	seam 60\61 (floor)	**COMMENTS:**	DT # 9

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	118	0	134	0	pass
#2	119	0	126	0	pass
#3	127	0	136	0	pass
#4	11	0	130	0	pass
#5	130	0	132	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	174	>200%	pass
#2	174	>200%	pass
#3	173	>200%	pass
#4	173	>200%	pass
#5	174	>200%	pass

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	1-Nov-06
TEST LOCATION:	**seam 61\62 (anchor trench)**	**COMMENTS:**	**DT #10**

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	126	0	128	0	pass
#2	129	0	140	0	pass
#3	139	0	123	0	pass
#4	141	0	111	0	pass
#5	128	0	139	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	173	>200%	pass
#2	178	>200%	pass
#3	179	>200%	pass
#4	177	>200%	pass
#5	179	>200%	pass

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	1-Nov-06
TEST LOCATION:	**seam 62\63 (floor)**	**COMMENTS:**	**DT # 11**

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	132	0	126	0	pass
#2	122	0	126	0	pass
#3	114	0	129	0	pass
#4	128	0	133	0	pass
#5	124	0	125	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	179	>200%	pass
#2	179	>200%	pass
#3	179	>200%	pass
#4	179	>200%	pass
#5	181	>200%	pass

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	1-Nov-06
TEST LOCATION:	seam 63\64 (cut off)	**COMMENTS:**	DT # 12

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	146	0	130	0	pass
#2	125	0	138	0	pass
#3	117	0	138	0	pass
#4	133	0	131	0	pass
#5	140	0	140	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	178	>200%	pass
#2	177	>200%	pass
#3	182	>200%	pass
#4	180	>200%	pass
#5	184	>200%	pass

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	13-Nov-06
TEST LOCATION:	seam 72\73 (cut-off)	**COMMENTS:**	DT # 13

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	135	0	136	0	pass
#2	135	0	141	0	pass
#3	136	0	109	0	pass
#4	134	0	139	0	pass
#5	132	0	137	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	168	>200%	pass
#2	170	>200%	pass
#3	167	>200%	pass
#4	176	>200%	pass
#5	169	>200%	pass

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Leach Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil HDPE
OWNER:	Imperial Metals	**DATE:**	13-Nov-06
TEST LOCATION:	seam 73\74 (cut-off)	**COMMENTS:**	DT # 14

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	128	0	107	0	pass
#2	126	0	120	0	pass
#3	126	0	117	0	pass
#4	127	0	120	0	pass
#5	125	0	114	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	168	>200%	pass
#2	162	>200%	pass
#3	169	>200%	pass
#4	159	>200%	pass
#5	166	>200%	pass

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REPAIR LOG

PROJECT NAME: Mount Polley Leach Pad **ENGINEER:**

PROJECT No.: 62479 **QC TECHNICIAN** Gary Watkins

CONTRACTOR: **MATERIAL** 60 mil HDPE

OWNER: Imperial Metals

Repair #	Repair Type	Repair Size	Repair Date	Repair Tech.	Pick Test	Vac Test	Test Date	Tested By	Repair Location	Comments
1	patch	1' round	30-Oct-06	WH		\	2-Nov-06	GW	seam 38\39	no leaks
2	patch	1' round	30-Oct-06	WH		\	2-Nov-06	GW	seam 37\38	no leaks
3	patch	1' round	30-Oct-06	WH		\	2-Nov-06	GW	seam 36\37	no leaks
4	patch	1' round	1-Nov-06	WH		\	2-Nov-06	GW	tie in 6	no leaks
5	bead	5'	1-Nov-06	WH		\	2-Nov-06	GW	tie in 6	no leaks
6	patch	1' round	1-Nov-06	WH		\	2-Nov-06	GW	tie in 6	no leaks
7	patch	2' round	1-Nov-06	WH		\	2-Nov-06	GW	seam 56\57	no leaks
8	patch	2' round	1-Nov-06	WH		\	2-Nov-06	GW	seam 57\58	no leaks
9	patch	2' round	1-Nov-06	WH		\	2-Nov-06	GW	seam 57\58	no leaks
10	patch	1' round	1-Nov-06	WH		\	2-Nov-06	GW	panel 58	no leaks
11	patch	1' x 3'	1-Nov-06	WH		\	2-Nov-06	GW	seam 58\59	no leaks
12	patch	1' x 3'	1-Nov-06	WH		\	2-Nov-06	GW	seam 60\61	no leaks
13	patch	1' x 3'	1-Nov-06	WH		\	2-Nov-06	GW	seam 62\63	no leaks
14	patch	1' round	1-Nov-06	WH		\	2-Nov-06	GW	seam 64\65	no leaks
15	patch	1' round	1-Nov-06	WH		\	2-Nov-06	GW	seam 64\65	no leaks
16	patch	1' round	1-Nov-06	WH		\	2-Nov-06	GW	seam 64\65	no leaks
17	patch	1' round	1-Nov-06	WH		\	2-Nov-06	GW	seam 64\65	no leaks
18	patch	1' x 2'	12-Nov-06	GW	\		12-Nov-06	GW	tie in 6	no leaks

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REPAIR LOG

PROJECT NAME: Mount Polley Leach Pad **ENGINEER:**

PROJECT No.: 62479 **QC TECHNICIAN** Gary Watkins

CONTRACTOR: **MATERIAL** 60 mil HDPE

OWNER: Imperial Metals

Repair #	Repair Type	Repair Size	Repair Date	Repair Tech.	Pick Test	Vac Test	Test Date	Tested By	Repair Location	Comments
19	patch	1' round	12-Nov-06	GW	\		12-Nov-06	GW	tie in 6	no leaks
20	patch	1' round	12-Nov-06	GW	\		12-Nov-06	GW	tie in 4	no leaks
21	patch	1' round	14-Nov-06	GW	\		14-Nov-06	GW	seam 34\37	no leaks
22	patch	1' round	14-Nov-06	GW	\		14-Nov-06	GW	seam 32\33	no leaks
23	patch	1' round	14-Nov-06	GW	\		14-Nov-06	GW	seam 32\33	no leaks
24	patch	1' round	14-Nov-06	GW	\		14-Nov-06	GW	seam 21\22	no leaks
25	patch	1' round	14-Nov-06	GW	\		14-Nov-06	GW	seam 21\22	no leaks
26	patch	2' round	24-Oct-06	GW		\	10-Nov-06	GW	seam 19\20	no leaks
27	patch	1' x 3'	24-Oct-06	GW		\	10-Nov-06	GW	seam 19\20	no leaks
28	patch	1' round	24-Oct-06	GW		\	10-Nov-06	GW	seam 18\19	no leaks
29	patch	1' round	24-Oct-06	GW		\	10-Nov-06	GW	panel 18	no leaks
30	bead	3'	24-Oct-06	GW		\	10-Nov-06	GW	panel18	no leaks
31	patch	2' round	24-Oct-06	GW		\	10-Nov-06	GW	seam 17\18	no leaks
32	bead	4'	24-Oct-06	GW		\	10-Nov-06	GW	seam 17\18	no leaks
33	patch	1' x 4'	24-Oct-06	GW		\	10-Nov-06	GW	seam 17\18	no leaks
34	patch	1' round	24-Oct-06	GW		\	10-Nov-06	GW	panel 16	no leaks
35	bead	3'	24-Oct-06	GW		\	10-Nov-06	GW	panel16	no leaks
36	patch	2' round	24-Oct-06	GW		\	10-Nov-06	GW	tie in 3	no leaks

QC Technician _____

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REPAIR LOG

PROJECT NAME: Mount Polley Leach Pad **ENGINEER:**

PROJECT No.: 62479 **QC TECHNICIAN** Gary Watkins

CONTRACTOR: **MATERIAL** 60 mil HDPE

OWNER: Imperial Metals

Repair #	Repair Type	Repair Size	Repair Date	Repair Tech.	Pick Test	Vac Test	Test Date	Tested By	Repair Location	Comments
37	patch	1' round	10-Nov-06	GW		\	14-Nov-06	GW	seam 15\16	no leaks
38	patch	1' round	14-Nov-06	GW	\		14-Nov-06	GW	seam 4\5	no leaks
39	patch	4' round	11-Nov-06	GW	\		14-Nov-06	GW	pipe boot	no leaks
40	patch	1' round	11-Nov-06	GW	\		14-Nov-06	GW	panel 11	no leaks

QC Technician _____

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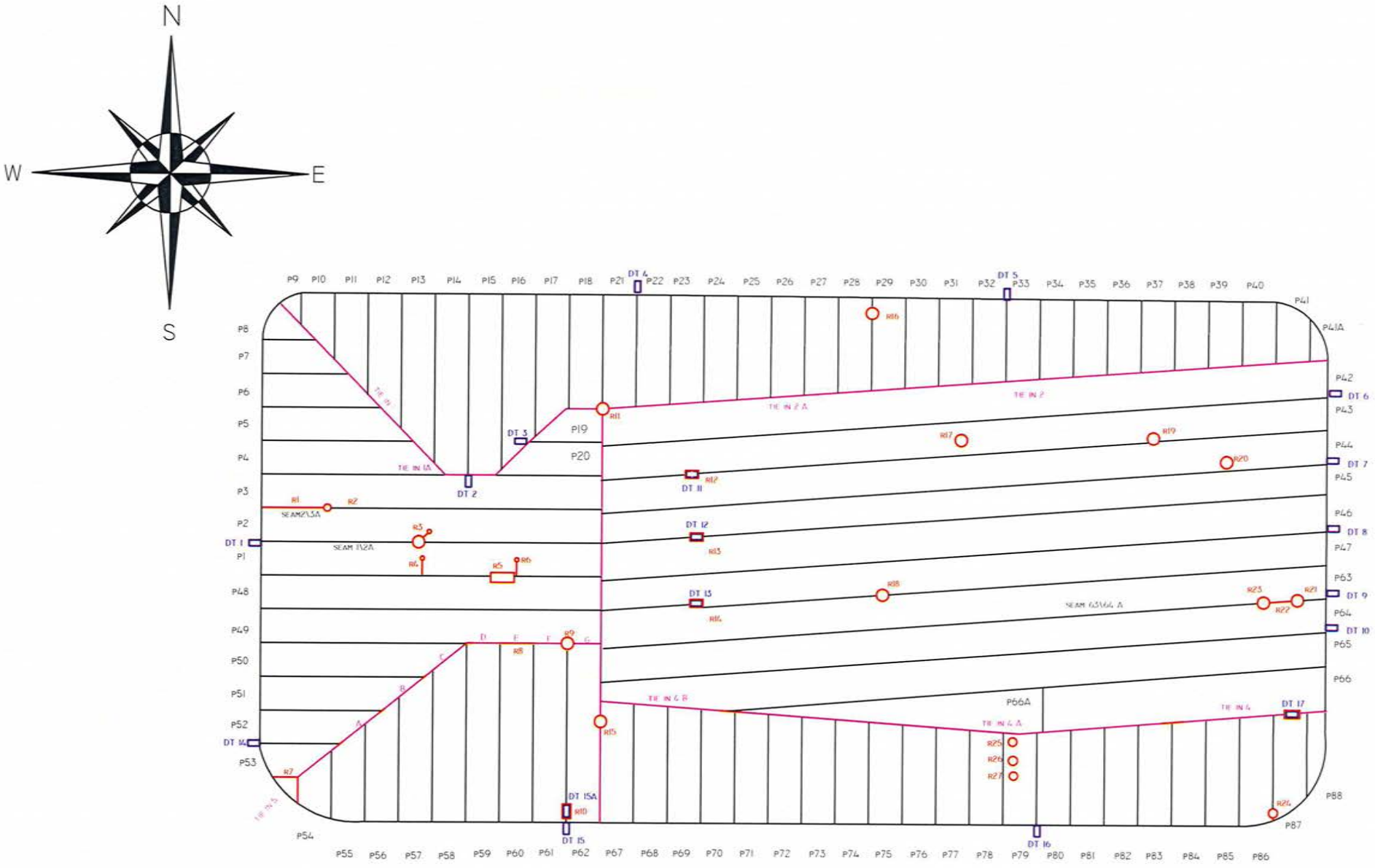

C58

MOUNT POLLEY LEACH PAD
SECONDARY LINER AS-BUILT

DWN BY:	
DATE:	
FILENAME:	
SCALE:	N.T.S.

Nilex Inc.
9304-39 Avenue
Edmonton AB

NILEX

Nilex Construction Inc.
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Edmonton, Alberta
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FAX: (780) 463-1773

EXTRUSION WELDING QUALIFICATION

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	11-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMPERATURE	PREHEAT TEMP.
1	8:00	WH	PW 3	238	7

TENSOMETER PEEL	lbs/in	% SEPARATION	COMMENTS
#1	**141**	**0**	pass
#2	**118**	**0**	pass
#3	**110**	**0**	pass
#4	**118**	**0**	pass
#5	**117**	**0**	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	158	>200%	pass
#2	167	>200%	pass

QC Technician _____

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EXTRUSION WELDING QUALIFICATION

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	13-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMPERATURE	PREHEAT TEMP.
2	8:15	WH	PW 3	238	7

TENSOMETER PEEL	lbs/in	% SEPARATION	COMMENTS
#1	131	0	pass
#2	141	0	pass
#3	148	0	pass
#4	139	0	pass
#5	136	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	189	>200%	pass
#2	177	>200%	pass

QC Technician _____

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EXTRUSION WELDING QUALIFICATION

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	14-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMPERATURE	PREHEAT TEMP.
3	8:15	WH	PW 3	240	8

TENSOMETER PEEL	lbs/in	% SEPARATION	COMMENTS
#1	109	0	pass
#2	119	0	pass
#3	135	0	pass
#4	130	0	pass
#5	126	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	178	>200%	pass
#2	178	>200%	pass

QC Technician _____

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EXTRUSION WELDING QUALIFICATION

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	17-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMPERATURE	PREHEAT TEMP.
4	9:00	WH	PW 3	240	10

TENSOMETER PEEL	lbs/in	% SEPARATION	COMMENTS
#1	146	0	pass
#2	117	0	pass
#3	120	0	pass
#4	118	0	pass
#5	129	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	171	>200%	pass
#2	159	>200%	pass

QC Technician _____

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EXTRUSION WELDING QUALIFICATION

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	20-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMPERATURE	PREHEAT TEMP.
5	7:45	WH	PW 3	240	10

TENSOMETER PEEL	lbs/in	% SEPARATION	COMMENTS
#1	99	0	pass
#2	109	0	pass
#3	120	0	pass
#4	96	0	pass
#5	99	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	153	>200%	pass
#2	157	>200%	pass

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EXTRUSION WELDING QUALIFICATION

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	20-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMPERATURE	PREHEAT TEMP.
6	1:20	WH	Dohle 1	240	255

TENSOMETER PEEL	lbs/in	% SEPARATION	COMMENTS
#1	90	0	pass
#2	90	0	pass
#3	97	0	pass
#4	98	0	pass
#5	99	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	157	>200%	pass
#2	157	>200%	pass

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WEDGE WELDER QUALIFICATION

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	9-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMP	MACHINE SPEED ft/min
1	2:30	DM	c 1	365	9

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	120	0	131	0	pass
#2	131	0	129	0	pass
#3	128	0	125	0	pass
#4	119	0	116	0	pass
#5	117	0	124	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	167	>200%	pass
#2	165	>200%	pass

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WEDGE WELDER QUALIFICATION

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	10-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMP	MACHINE SPEED ft/min
2	8:00	DM	nsc 7	385	8.5

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	120	0	139	0	pass
#2	125	0	117	0	pass
#3	146	0	139	0	pass
#4	131	0	131	0	pass
#5	138	0	120	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	178	>200%	pass
#2	166	>200%	pass

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WEDGE WELDER QUALIFICATION

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PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	10-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMP	MACHINE SPEED ft/min
3	12:45	DM	nsc 7	385	8.5

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	144	0	149	0	pass
#2	142	0	149	0	pass
#3	105	0	122	0	pass
#4	146	0	120	0	pass
#5	105	0	110	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	156	>200%	pass
#2	156	>200%	pass

QC Technician _____

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WEDGE WELDER QUALIFICATION

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	12-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMP	MACHINE SPEED ft/min
4	8:00	DM	C 2	365	8

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	137	0	135	0	pass
#2	123	0	134	0	pass
#3	133	0	136	0	pass
#4	126	0	129	0	pass
#5	141	0	152	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	172	>200%	pass
#2	172	>200%	pass

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WEDGE WELDER QUALIFICATION

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PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	12-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMP	MACHINE SPEED ft/min
5	8:15	WH	C 1	365	9

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	132	0	144	0	pass
#2	129	0	136	0	pass
#3	133	0	123	0	pass
#4	128	0	123	0	pass
#5	135	0	129	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	156	>200%	pass
#2	157	>200%	pass

QC Technician _____

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WEDGE WELDER QUALIFICATION

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	12-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMP	MACHINE SPEED ft/min
6	12:45	DM	C 2	365	8.5

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	111	0	123	0	pass
#2	119	0	119	0	pass
#3	131	0	15	0	pass
#4	112	0	122	0	pass
#5	133	0	131	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	140	>200%	pass
#2	148	>200%	pass

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WEDGE WELDER QUALIFICATION

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	12-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMP	MACHINE SPEED ft/min
7	1:00	WH	nsc 7	385	8

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	141	0	137	0	pass
#2	129	0	125	0	pass
#3	138	0	129	0	pass
#4	148	0	147	0	pass
#5	133	0	127	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	144	>200%	pass
#2	146	>200%	pass

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WEDGE WELDER QUALIFICATION

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	13-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMP	MACHINE SPEED ft/min
8	8:00	DM	c 1	365	8

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	132	0	136	0	pass
#2	134	0	124	0	pass
#3	150	0	145	0	pass
#4	149	0	133	0	pass
#5	144	0	145	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	173	>200%	pass
#2	173	>200%	pass

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WEDGE WELDER QUALIFICATION

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	13-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMP	MACHINE SPEED ft/min
9	12:45	DM	c 1	365	9

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	134	0	136	0	pass
#2	133	0	116	0	pass
#3	127	0	116	0	pass
#4	122	0	127	0	pass
#5	131	0	133	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	173	>200%	pass
#2	172	>200%	pass

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WEDGE WELDER QUALIFICATION

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	13-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMP	MACHINE SPEED ft/min
10	12:45	GW	nsc 7	385	8

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	122	0	120	0	pass
#2	120	0	130	0	pass
#3	136	0	128	0	pass
#4	135	0	132	0	pass
#5	125	0	129	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	171	>200%	pass
#2	167	>200%	pass

QC Technician _____

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WEDGE WELDER QUALIFICATION

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	14-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMP	MACHINE SPEED ft/min
11	7:45	DM	c 1	365	8.6

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	165	0	142	0	pass
#2	160	0	127	0	pass
#3	123	0	154	0	pass
#4	149	0	128	0	pass
#5	126	0	143	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	189	>200%	pass
#2	170	>200%	pass

QC Technician _____

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WEDGE WELDER QUALIFICATION

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	14-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMP	MACHINE SPEED ft/min
12	8:30	DoM	c 2	365	7.5

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	128	0	119	0	pass
#2	120	0	133	0	pass
#3	127	0	133	0	pass
#4	126	0	131	0	pass
#5	144	0	136	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	177	>200%	pass
#2	169	>200%	pass

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WEDGE WELDER QUALIFICATION

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	17-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMP	MACHINE SPEED ft/min
13	7:45	DoM	nsc 7	385	8

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	120	0	116	0	pass
#2	136	0	132	0	pass
#3	137	0	134	0	pass
#4	146	0	129	0	pass
#5	136	0	131	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	182	>200%	pass
#2	181	>200%	pass

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WEDGE WELDER QUALIFICATION

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT No.:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	17-Oct-06

SAMPLE NUMBER	TIME	TECH.	MACHINE NUMBER	MACHINE TEMP	MACHINE SPEED ft/min
14	8:00	DM	c 1	365	8.3

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	134	0	122	0	pass
#2	147	0	137	0	pass
#3	141	0	131	0	pass
#4	127	0	119	0	pass
#5	124	0	128	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	170	>200%	pass
#2	170	>200%	pass

QC Technician _____

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PANEL PLACEMENT LOG

PROJECT NAME: Mount Polley Heap Pad **ENGINEER:**

PROJECT No.: 62479 **QC TECHNICIAN:** Gary Watkins

CONTRACTOR: **MATERIAL:** 6o mil smooth

OWNER: Imperial Metals

Panel No.	Roll No.	Deployment Date	Panel Dimentions		Square Feet
			Length (ft.)	Width (ft.)	
1	102126040	9-Oct-06	225	22	4950
2	102126049	9-Oct-06	225	22	4950
3	102126049	9-Oct-06	225	22	4950
4	102126040	9-Oct-06	115	22	2530
5	102126040	10-Oct-06	98	22	2156
6	101120134	10-Oct-06	77	22	1694
7	101120134	10-Oct-06	52	22	1144
8	101120134	10-Oct-06	15	10	150
9	101120139	10-Oct-06	10	10	100
10	101120139	10-Oct-06	28	22	616
11	101120139	10-Oct-06	50	22	1100
12	101120139	10-Oct-06	68	22	1496
13	101120139	10-Oct-06	83	22	1826
14	101120139	10-Oct-06	93	22	2046
15	101120139	10-Oct-06	93	22	2046
16	101120134	10-Oct-06	76	22	1672
17	101120134	10-Oct-06	60	22	1320
				TOTAL	34746

QC Technician

QA/QC Approval

Nilex Construction Inc.
9304-39 Avenue
Edmonton, Alberta
T6E 5T9
PH: (800) 667- 4811
FAX: (780) 463-1773

PANEL PLACEMENT LOG

PROJECT NAME: Mount Polley Heap Pad **ENGINEER:**

PROJECT No.: 62479 **QC TECHNICIAN:** Gary Watkins

CONTRACTOR: **MATERIAL:** 6o mil smooth

OWNER: Imperial Metals

Panel No.	Roll No.	Deployment Date	Panel Dimentions		Square Feet
			Length (ft.)	Width (ft.)	
18	101120134	10-Oct-06	60	22	1320
19	101120134	10-Oct-06	45	22	990
20	101120134	10-Oct-06	70	22	1540
21	101120132	10-Oct-06	75	22	1650
22	101120132	10-Oct-06	72	22	1584
23	101120132	10-Oct-06	70	22	1540
24	101120132	10-Oct-06	69	22	1518
25	101120149	12-Oct-06	67	22	1474
26	101120149	12-Oct-06	65	22	1430
27	101120149	12-Oct-06	63	22	1386
28	101120149	12-Oct-06	62	22	1364
29	101120149	12-Oct-06	60	22	1320
30	101120149	12-Oct-06	58	22	1276
31	101120149	12-Oct-06	57	22	1254
32	101120149	12-Oct-06	55	22	1210
33	102126038	12-Oct-06	53	22	1166
34	102126038	12-Oct-06	51	22	1122
				TOTAL	23144

QC Technician _____

QA/QC Approval _____

Nilex Construction Inc.
9304-39 Avenue
Edmonton, Alberta
T6E 5T9
PH: (800) 667- 4811
FAX: (780) 463-1773

PANEL PLACEMENT LOG

PROJECT NAME: Mount Polley Heap Pad
ENGINEER:
PROJECT No.: 62479
QC TECHNICIAN: Gary Watkins
CONTRACTOR:
MATERIAL: 6o mil smooth
OWNER: Imperial Metals

Panel No.	Roll No.	Deployment Date	Panel Dimentions		Square Feet
			Length (ft.)	Width (ft.)	
35	102126038	12-Oct-06	50	22	1100
36	102126038	12-Oct-06	48	22	1056
37	102126038	12-Oct-06	46	22	1012
38	102126038	12-Oct-06	44	22	968
39	102126038	12-Oct-06	43	22	946
40	102126038	12-Oct-06	41	22	902
41	102126038	12-Oct-06	41	22	902
41A	102126038	12-Oct-06	20	11	220
42	101120150	12-Oct-06	475	22	10450
43	101120147	12-Oct-06	475	22	10450
44	101120141	12-Oct-06	475	22	10450
45	102126037	12-Oct-06	475	22	10450
46	101120137	12-Oct-06	475	22	10450
47	101120138	12-Oct-06	475	22	10450
48	101120136	13-Oct-06	225	22	4950
49	101120136	13-Oct-06	225	22	4950
50	102126035	13-Oct-06	225	22	4950
				TOTAL	84656

QC Technician

QA/QC Approval

Nilex Construction Inc.
9304-39 Avenue
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T6E 5T9
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FAX: (780) 463-1773

PANEL PLACEMENT LOG

PROJECT NAME: Mount Polley Heap Pad **ENGINEER:**

PROJECT No.: 62479 **QC TECHNICIAN:** Gary Watkins

CONTRACTOR: **MATERIAL:** 6o mil smooth

OWNER: Imperial Metals

Panel No.	Roll No.	Deployment Date	Panel Dimentions		Square Feet
			Length (ft.)	Width (ft.)	
51	101120136	13-Oct-06	106	22	2332
52	102126035	13-Oct-06	78	22	1716
53	102126035	13-Oct-06	40	22	880
54	102126034	13-Oct-06	31	22	682
55	102126034	13-Oct-06	55	22	1210
56	102126034	13-Oct-06	72	22	1584
57	102126034	13-Oct-06	87	22	1914
58	102126034	13-Oct-06	105	22	2310
59	102126034	13-Oct-06	105	22	2310
60	102126034	13-Oct-06	105	22	2310
61	102126035	13-Oct-06	105	22	2310
62	102126035	13-Oct-06	105	22	2310
63	101120135	14-Oct-06	475	22	10450
64	101120148	14-Oct-06	475	22	10450
65	102126036	14-Oct-06	475	22	10450
66	102126042	14-Oct-06	185	22	4070
66A	102126035	17-Oct-06	149	17	2533
				TOTAL	59821

QC Technician

QA/QC Approval

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T6E 5T9
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PANEL PLACEMENT LOG

PROJECT NAME: Mount Polley Heap Pad **ENGINEER:**

PROJECT No.: 62479 **QC TECHNICIAN:** Gary Watkins

CONTRACTOR: **MATERIAL:** 6o mil smooth

OWNER: Imperial Metals

Panel No.	Roll No.	Deployment Date	Panel Dimentions		Square Feet
			Length (ft.)	Width (ft.)	
67	102126042	17-Oct-06	79	22	1738
68	102126042	17-Oct-06	77	22	1694
69	102126042	17-Oct-06	75	22	1650
70	102126042	17-Oct-06	74	22	1628
71	101120144	17-Oct-06	72	22	1584
72	101120144	17-Oct-06	70	22	1540
73	101120144	17-Oct-06	69	22	1518
74	101120144	17-Oct-06	67	22	1474
75	101120144	17-Oct-06	65	22	1430
76	101120144	17-Oct-06	64	22	1408
77	101120144	17-Oct-06	62	22	1364
78	101120144	17-Oct-06	61	22	1342
79	102126039	17-Oct-06	59	22	1298
80	102126039	17-Oct-06	61	22	1342
81	102126039	17-Oct-06	61	22	1342
82	102126039	17-Oct-06	61	22	1342
83	102126039	17-Oct-06	61	22	1342
				TOTAL	25036

QC Technician _____

QA/QC Approval _____

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9304-39 Avenue
Edmonton, Alberta
T6E 5T9
PH: (800) 667- 4811
FAX: (780) 463-1773

PANEL PLACEMENT LOG

PROJECT NAME: Mount Polley Heap Pad **ENGINEER:**

PROJECT No.: 62479 **QC TECHNICIAN:** Gary Watkins

CONTRACTOR: **MATERIAL:** 6o mil smooth

OWNER: Imperial Metals

Panel No.	Roll No.	Deployment Date	Panel Dimentions		Square Feet
			Length (ft.)	Width (ft.)	
84	102126039	17-Oct-06	61	22	1342
85	102126039	17-Oct-06	61	22	1342
86	102126039	17-Oct-06	61	22	1342
87	102126039	17-Oct-06	61	22	1342
88	101120147	17-Oct-06	61	22	1342
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
				TOTAL	6710

QC Technician

QA/QC Approval

Nilex Construction Inc.
9304-39 Avenue
Edmonton, Alberta
T6E 5T9
PH: (800) 667- 4811
FAX: (780) 463-1773

GEOMEMBRANE SEAM PRESSURE TESTING LOG

PROJECT NAME: Mount Polley Heap Pad **ENGINEER:**

PROJECT No.: 62479 **QC TECHNICIAN:** Gary Watkins

CONTRACTOR: **MATERIAL:** 60 mil smooth

OWNER: Imperial Metals

Seam No.	Date Welded	Date Tested	Operator	Machine Name & Unit No.	Pressure		Time		Comments
					Start	Finish	Start	Finish	
1\2	9-Oct-06	11-Oct-06	DM	concord 1	56	56	9:23	9:28	pass
1\2A	9-Oct-06	11-Oct-06	DM	concord 1	50	49	9:23	9:28	pass
2\3	9-Oct-06	11-Oct-06	DM	concord 1	53	53	9:34	9:39	pass
2\3A	9-Oct-06	11-Oct-06	DM	concord 1					seam singled and extruded
3\4	9-Oct-06	11-Oct-06	DM	concord 1	54	54	10:53	10:58	pass
4\5	11-Oct-06	11-Oct-06	DM	national seal 7	40	39	10:53	10:58	pass
5\6	11-Oct-06	11-Oct-06	DM	national seal 7	38	36	10:53	10:58	pass
6\7	11-Oct-06	11-Oct-06	DM	national seal 7	39	37	10:53	10:58	pass
7\8	11-Oct-06	11-Oct-06	DM	national seal 7	35	35	11:03	11:08	pass
9\10	11-Oct-06	11-Oct-06	DM	national seal 7	35	35	11:53	11:58	pass
10\11	11-Oct-06	11-Oct-06	DM	national seal 7	35	33	11:40	11:45	pass
11\12	11-Oct-06	11-Oct-06	DM	national seal 7	39	39	11:40	11:45	pass
12\13	11-Oct-06	11-Oct-06	DM	national seal 7	40	40	11:40	11:45	pass
13\14	11-Oct-06	11-Oct-06	DM	national seal 7	42	42	11:40	11:45	pass
14\15	11-Oct-06	11-Oct-06	DM	national seal 7	44	41	11:53	11:58	pass
15\16	11-Oct-06	11-Oct-06	DM	national seal 7	40	39	11:53	11:58	pass
16\17	11-Oct-06	11-Oct-06	DM	national seal 7	39	39	11:53	11:58	pass
17\18	11-Oct-06	11-Oct-06	DM	national seal 7	42	42	11:57	12:02	pass

QC Technician _____

QA/QC Approval _____

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T6E 5T9
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GEOMEMBRANE SEAM PRESSURE TESTING LOG

PROJECT NAME: Mount Polley Heap Pad **ENGINEER:**

PROJECT No.: 62479 **QC TECHNICIAN:** Gary Watkins

CONTRACTOR: **MATERIAL:** 60 mil smooth

OWNER: Imperial Metals

Seam No.	Date Welded	Date Tested	Operator	Machine Name & Unit No.	Pressure		Time		Comments
					Start	Finish	Start	Finish	
19\20	11-Oct-06	11-Oct-06	DM	national seal 7	42	40	1:15	1:20	pass
3\20	11-Oct-06	11-Oct-06	DM	national seal 7	42	39	12:50	12:55	pass
18\21	11-Oct-06	11-Oct-06	DM	national seal 7	36	36	1:43	1:48	pass
21\22	11-Oct-06	11-Oct-06	DM	national seal 7	36	35	1:43	1:48	pass
22\23	11-Oct-06	11-Oct-06	DM	national seal 7	39	39	1:43	1:48	pass
23\24	11-Oct-06	11-Oct-06	DM	national seal 7	40	38	1:43	1:48	pass
tie in 1	11-Oct-06	11-Oct-06	DM	national seal 7	42	39	11:10	11:15	pass
tie in 1A	11-Oct-06	11-Oct-06	DM	national seal 7	38	36	12:59	1:04	pass
24\25	12-Oct-06	13-Oct-06	DM	concord 2	51	51	11:39	11:44	pass
25\26	12-Oct-06	13-Oct-06	DM	concord 2	50	50	11:39	11:44	pass
26\27	12-Oct-06	13-Oct-06	DM	concord 2	55	52	11:39	11:44	pass
27\28	12-Oct-06	13-Oct-06	DM	concord 2	50	50	11:48	11:53	pass
28\29	12-Oct-06	13-Oct-06	DM	concord 2	52	51	11:57	12:02	pass
28\29A	12-Oct-06	13-Oct-06	DM	concord 2	49	48	11:57	12:02	pass
29\30	12-Oct-06	13-Oct-06	DM	concord 2	45	45	11:48	11:53	pass
30\31	12-Oct-06	13-Oct-06	WH	concord 1	54	54	11:48	11:53	pass
31\32	12-Oct-06	13-Oct-06	DM	concord 2	46	45	12:42	12:47	pass
32\33	12-Oct-06	13-Oct-06	WH	concord 1	55	54	12:42	12:47	pass

QC Technician _____

QA/QC Approval _____

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GEOMEMBRANE SEAM PRESSURE TESTING LOG

PROJECT NAME: Mount Polley Heap Pad
ENGINEER:
PROJECT No.: 62479
QC TECHNICIAN: Gary Watkins
CONTRACTOR:
MATERIAL: 60 mil smooth
OWNER: Imperial Metals

Seam No.	Date Welded	Date Tested	Operator	Machine Name & Unit No.	Pressure		Time		Comments
					Start	Finish	Start	Finish	
33\34	12-Oct-06	13-Oct-06	DM	concord 2	57	55	12:42	12:47	pass
34\35	12-Oct-06	13-Oct-06	WH	concord 1	48	48	8:50	8:55	pass
35\36	12-Oct-06	13-Oct-06	DM	concord 2	42	42	12:57	1:02	pass
36\37	12-Oct-06	13-Oct-06	WH	concord 1	59	59	12:57	1:02	pass
37\38	12-Oct-06	13-Oct-06	DM	concord 2	50	49	12:57	1:02	pass
38\39	12-Oct-06	13-Oct-06	WH	concord 1	48	48	1:07	1:12	pass
39\40	12-Oct-06	13-Oct-06	DM	concord 2	55	53	1:07	1:12	pass
40\41	12-Oct-06	13-Oct-06	WH	concord 1	43	42	1:07	1:12	pass
41\41A	12-Oct-06	13-Oct-06	DM	concord 2	38	38	1:20	1:25	pass
tie in 2	12-Oct-06	13-Oct-06	WH	nsc 7	49	47	1:20	1:25	pass
tie in 2A	12-Oct-06	20-Oct-06	WH	nsc 7	45	44	1:27	1:32	pass
42\43	12-Oct-06	14-Oct-06	DM	concord 2	46	44	9:33	9:38	pass
43\44	12-Oct-06	14-Oct-06	WH	nsc 7	40	40	9:33	9:38	pass
44\45	12-Oct-06	14-Oct-06	DM	concord 2	48	48	9:37	9:42	pass
45\46	12-Oct-06	14-Oct-06	DM	concord 2	54	54	10:43	10:48	pass
46\47	12-Oct-06	14-Oct-06	DM	concord 2	55	55	10:43	10:48	pass
1\48	13-Oct-06	14-Oct-06	DM	concord 1	58	58	11:17	11:22	pass
48\49	13-Oct-06	14-Oct-06	DM	concord 1	47	44	11:17	11:22	pass

QC Technician _____

QA/QC Approval _____

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T6E 5T9
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GEOMEMBRANE SEAM PRESSURE TESTING LOG

PROJECT NAME: Mount Polley Heap Pad **ENGINEER:**

PROJECT No.: 62479 **QC TECHNICIAN:** Gary Watkins

CONTRACTOR: **MATERIAL:** 60 mil smooth

OWNER: Imperial Metals

Seam No.	Date Welded	Date Tested	Operator	Machine Name & Unit No.	Pressure		Time		Comments
					Start	Finish	Start	Finish	
49\50	13-Oct-06	14-Oct-06	DM	concord 1	53	52	11:17	11:22	pass
50\51	13-Oct-06	14-Oct-06	DM	concord 1	48	48	11:26	11:31	pass
51\52	13-Oct-06	14-Oct-06	DM	concord 1	48	48	11:26	11:31	pass
52\53	13-Oct-06	14-Oct-06	DM	concord 1	53	52	11:26	11:31	pass
54\55	13-Oct-06	14-Oct-06	DM	concord 1	54	54	11:40	11:45	pass
55\56	13-Oct-06	14-Oct-06	DM	concord 1	49	49	11:40	11:45	pass
56\57	13-Oct-06	14-Oct-06	DM	concord 1	45	45	11:40	11:45	pass
57\58	13-Oct-06	14-Oct-06	DM	concord 1	43	40	11:51	11:56	pass
58\59	13-Oct-06	14-Oct-06	DM	concord 1	55	54	11:51	11:56	pass
59\60	13-Oct-06	14-Oct-06	DM	concord 1	46	45	11:51	11:56	pass
60\61	13-Oct-06	14-Oct-06	DM	concord 1	53	52	12:01	12:06	pass
61\62	13-Oct-06	20-Oct-06	DM	concord 1	48	48	4:39	4:44	pass
tie in 3	17-Oct-06	17-Oct-06	DoM	nsc 7	43	43	5:00	5:05	pass
67\68	17-Oct-06	17-Oct-06	DoM	nsc 7	52	52	5:00	5:05	pass
68\69	17-Oct-06	17-Oct-06	DM	concord 1	43	41	4:53	4:58	pass
69\70	17-Oct-06	17-Oct-06	DoM	nsc 7	52	52	4:53	4:58	pass
70\71	17-Oct-06	17-Oct-06	DM	concord 1	45	45	4:53	4:58	pass

QC Technician _____

QA/QC Approval _____

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GEOMEMBRANE SEAM PRESSURE TESTING LOG

PROJECT NAME: Mount Polley Heap Pad
ENGINEER:
PROJECT No.: 62479
QC TECHNICIAN: Gary Watkins
CONTRACTOR:
MATERIAL: 60 mil smooth
OWNER: Imperial Metals

Seam No.	Date Welded	Date Tested	Operator	Machine Name & Unit No.	Pressure		Time		Comments
					Start	Finish	Start	Finish	
71\72	17-Oct-06	17-Oct-06	DoM	nsc 7	48	44	4:38	4:43	pass
72\73	17-Oct-06	17-Oct-06	DM	concord 1	42	42	4:38	4:43	pass
73\74	17-Oct-06	17-Oct-06	DoM	nsc 7	48	48	4:38	4:43	pass
74\75	17-Oct-06	17-Oct-06	DM	concord 1	42	39	4:27	4:32	pass
75\76	17-Oct-06	17-Oct-06	DoM	nsc 7	52	52	4:27	4:32	pass
76\77	17-Oct-06	17-Oct-06	DM	concord 1	44	42	4:27	4:32	pass
77\78	17-Oct-06	17-Oct-06	DoM	nsc 7	60	60	4:18	4:23	pass
78\79	17-Oct-06	17-Oct-06	DM	concord 1	50	49	4:18	4:23	pass
79\80	17-Oct-06	17-Oct-06	DoM	nsc 7	49	48	4:18	4:23	pass
80\81	17-Oct-06	17-Oct-06	DM	concord 1	44	44	4:08	4:13	pass
81\82	17-Oct-06	17-Oct-06	DoM	nsc 7	60	60	4:08	4:13	pass
82\83	17-Oct-06	17-Oct-06	DM	concord 1	49	47	4:08	4:13	pass
83\84	17-Oct-06	17-Oct-06	DoM	nsc 7	48	48	4:00	4:05	pass
84\85	17-Oct-06	17-Oct-06	DM	concord 1	48	46	4:00	4:05	pass
85\86	17-Oct-06	17-Oct-06	DoM	nsc 7	52	50	4:00	4:05	pass
86\87	17-Oct-06	17-Oct-06	DM	concord 1	48	46	8:07	8:12	pass
87\88	17-Oct-06	17-Oct-06	DM	concord 1	42	42	3:51	3:56	pass
66\65	17-Oct-06	20-Oct-06	DM	concord 1	50	50	8:18	8:23	pass

QC Technician _____

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Edmonton, Alberta
T6E 5T9
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GEOMEMBRANE SEAM PRESSURE TESTING LOG

PROJECT NAME: Mount Polley Heap Pad
ENGINEER:
PROJECT No.: 62479
QC TECHNICIAN: Gary Watkins
CONTRACTOR:
MATERIAL: 60 mil smooth
OWNER: Imperial Metals

Seam No.	Date Welded	Date Tested	Operator	Machine Name & Unit No.	Pressure		Time		Comments
					Start	Finish	Start	Finish	
64\65	17-Oct-06	20-Oct-06	DoM	concord 2	48	48	9:24	9:29	pass
63\64	17-Oct-06	20-Oct-06	DM	concord 1	54	53	8:25	8:30	pass
63\64 A	17-Oct-06	20-Oct-06	DM	concord 1	50	49	8:33	8:38	pass
tie in 3	17-Oct-06	17-Oct-06	DoM	nsc 7	45	43	1:15	1:20	pass
tie in 3A	17-Oct-06	17-Oct-06	DoM	nsc 7	46	46	1:15	1:20	pass
tie in 4	17-Oct-06	20-Oct-06	DoM	nsc 7	58	54	8:36	8:41	pass
tie in 4A	17-Oct-06	19-Oct-06	DoM	nsc 7	42	41	1:42	1:47	pass
tie in 4B	17-Oct-06	19-Oct-06	DoM	nsc 7	43	42	1:35	1:40	pass
tie in 5	13-Oct-06	20-Oct-06	GW	nsc 7	50	48	9:36	9:41	pass
A	13-Oct-06	20-Oct-06	GW	nsc 7	45	44	9:36	9:41	pass
B	13-Oct-06	20-Oct-06	GW	nsc 7	45	45	9:39	9:44	pass
C	13-Oct-06	20-Oct-06	GW	nsc 7	40	38	9:45	9:50	pass
D	13-Oct-06	20-Oct-06	GW	nsc 7	40	40	10:22	1:27	pass
E	13-Oct-06	20-Oct-06	GW	nsc 7					seam failed and extruded
F	13-Oct-06	20-Oct-06	GW	nsc 7	40	40	10:15	10:20	pass
G	13-Oct-06	20-Oct-06	GW	nsc 7	51	49	10:36	10:41	pass
66\66A	13-Oct-06	20-Oct-06	DM	concord 1	48	47	8:16	8:21	pass

QC Technician _____

QA/QC Approval _____

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Edmonton, Alberta
T6E 5T9
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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	11-Oct-06
TEST LOCATION:	seam 1\2 (anchor trench)	**COMMENTS:**	DT # 1

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	123	0	118	0	pass
#2	110	0	136	0	pass
#3	136	0	124	0	pass
#4	136	0	134	0	pass
#5	143	0	102	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	174	>200%	pass
#2	183	>200%	pass
#3	178	>200%	pass
#4	172	>200%	pass
#5	182	>200%	pass

QC Technician _____

QA/QC Approval _____

Nilex Construction Inc.
9304-39 Avenue
Edmonton, Alberta
T6E 5T9
PH: (800) 667- 4811
FAX: (780) 463-1773

DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	11-Oct-06

TEST LOCATION: seam 14\15 (floor cut-off) **COMMENTS:** DT # 2

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	106	0	117	0	pass
#2	106	0	117	0	pass
#3	110	0	120	0	pass
#4	107	0	122	0	pass
#5	134	0	118	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	168	>200%	pass
#2	168	>200%	pass
#3	168	>200%	pass
#4	159	>200%	pass
#5	164	>200%	pass

QC Technician _____

QA/QC Approval _____

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	11-Oct-06
TEST LOCATION:	seam 19\20(floor cut-off)	**COMMENTS:**	DT # 3

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	104	0	113	0	pass
#2	111	0	117	0	pass
#3	124	0	111	0	pass
#4	119	0	109	0	pass
#5	110	0	110	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	169	>200%	pass
#2	167	>200%	pass
#3	181	>200%	pass
#4	173	>200%	pass
#5	174	>200%	pass

QC Technician _____

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	11-Oct-06
TEST LOCATION:	seam 21\22 (anchor trench)	**COMMENTS:**	DT # 4

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	106	0	117	0	pass
#2	114	0	116	0	pass
#3	115	0	119	0	pass
#4	131	0	107	0	pass
#5	123	0	110	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1		>200%	pass
#2		>200%	pass
#3		>200%	pass
#4		>200%	pass
#5		>200%	pass

QC Technician _____

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	15-Oct-06
TEST LOCATION:	seam 32\33 (anchor trench)	**COMMENTS:**	DT # 5

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	142	0	109	0	pass
#2	137	0	139	0	pass
#3	127	0	125	0	pass
#4	125	0	131	0	pass
#5	125	0	121	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	180	>200%	pass
#2	173	>200%	pass
#3	185	>200%	pass
#4	195	>200%	pass
#5	190	>200%	pass

QC Technician _____

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	15-Oct-06
TEST LOCATION:	seam 42\43 (anchor trench)	**COMMENTS:**	DT # 6

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	130	0	126	0	pass
#2	109	0	115	0	pass
#3	120	0	113	0	pass
#4	121	0	112	0	pass
#5	131	0	120	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	194	>200%	pass
#2	173	>200%	pass
#3	185	>200%	pass
#4	195	>200%	pass
#5	190	>200%	pass

QC Technician _____

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	15-Oct-06
TEST LOCATION:	seam 44\45 (anchor trench	**COMMENTS:**	DT # 7

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	132	0	122	0	pass
#2	142	0	140	0	pass
#3	117	0	101	0	pass
#4	140	0	140	0	pass
#5	95	20	131	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	193	>200%	pass
#2	191	>200%	pass
#3	189	>200%	pass
#4	189	>200%	pass
#5	191	>200%	pass

QC Technician _____

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	15-Oct-06
TEST LOCATION:	seam 46\47 (anchor trench)	**COMMENTS:**	DT # 8

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	124	0	126	0	pass
#2	125	0	122	0	pass
#3	128	0	122	0	pass
#4	130	0	118	0	pass
#5	129	0	124	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	191	>200%	pass
#2	202	>200%	pass
#3	191	>200%	pass
#4	190	>200%	pass
#5	195	>200%	pass

QC Technician _____

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	15-Oct-06
TEST LOCATION:	seam 63\64 (anchor trench)	**COMMENTS:**	DT # 9

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	117	0	103	0	pass
#2	146	0	112	0	pass
#3	127	0	119	0	pass
#4	135	0	109	0	pass
#5	134	0	115	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	166	>200%	pass
#2	178	>200%	pass
#3	188	>200%	pass
#4	182	>200%	pass
#5	186	>200%	pass

QC Technician _____

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	15-Oct-06
TEST LOCATION:	**seam 64\65 (anchor trench)**	**COMMENTS:**	**DT # 10**

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	126	0	113	0	pass
#2	123	0	105	0	pass
#3	122	0	126	0	pass
#4	123	0	127	0	pass
#5	121	0	108	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	184	>200%	pass
#2	188	>200%	pass
#3	186	>200%	pass
#4	170	>200%	pass
#5	170	>200%	pass

QC Technician _____

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	17-Oct-06
TEST LOCATION:	seam 43\44 (floor)	**COMMENTS:**	DT # 11

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	149	0	127	0	pass
#2	118	0	130	0	pass
#3	113	0	121	0	pass
#4	117	0	132	0	pass
#5	114	0	103	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	180	>200%	pass
#2	180	>200%	pass
#3	176	>200%	pass
#4	180	>200%	pass
#5	179	>200%	pass

QC Technician _____

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	17-Oct-06
TEST LOCATION:	seam 45\46 (floor)	**COMMENTS:**	DT # 12

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	123	0	133	0	pass
#2	122	0	120	0	pass
#3	125	0	115	0	pass
#4	113	0	109	0	pass
#5	113	0	109	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	181	>200%	pass
#2	180	>200%	pass
#3	168	>200%	pass
#4	179	>200%	pass
#5	180	>200%	pass

QC Technician _____

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	17-Oct-06
TEST LOCATION:	seam 47\63 (floor)	**COMMENTS:**	DT # 13

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	126	0	117	0	pass
#2	122	0	118	0	pass
#3	121	0	110	0	pass
#4	116	0	114	0	pass
#5	118	0	116	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	172	>200%	pass
#2	173	>200%	pass
#3	173	>200%	pass
#4	171	>200%	pass
#5	171	>200%	pass

QC Technician _____

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Nilex Construction Inc.
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Edmonton, Alberta
T6E 5T9
PH: (800) 667- 4811
FAX: (780) 463-1773

DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	17-Oct-06
TEST LOCATION:	seam 52\53 (anchor trench)	**COMMENTS:**	DT # 14

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	143	0	120	0	pass
#2	147	0	131	0	pass
#3	123	0	123	0	pass
#4	140	0	105	20	pass
#5	138	0	123	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	181	>200%	pass
#2	148	>200%	pass
#3	183	>200%	pass
#4	183	>200%	pass
#5	182	>200%	pass

QC Technician _____

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Edmonton, Alberta
T6E 5T9
PH: (800) 667- 4811
FAX: (780) 463-1773

DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	17-Oct-06
TEST LOCATION:	seam 61\62 (anchor trench)	**COMMENTS:**	DT # 15

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	102	100		0	fail
#2	95	100		0	fail
#3		0		0	
#4		0		0	
#5		0		0	

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1		>200%	
#2		>200%	
#3		>200%	
#4		>200%	
#5		>200%	

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	17-Oct-06
TEST LOCATION:	seam 61\62 (top of slope)	**COMMENTS:**	DT # 15 A

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	113	0	126	0	pass
#2	129	0	123	0	pass
#3	125	0	119	0	pass
#4	124	0	131	0	pass
#5	129	0	124	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	180	>200%	pass
#2	180	>200%	pass
#3	179	>200%	pass
#4	181	>200%	pass
#5	180	>200%	pass

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	20-Oct-06
TEST LOCATION:	seam 79\80 (anchor trench)	**COMMENTS:**	DT # 16

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	116	0	108	0	pass
#2	116	0	127	0	pass
#3	129	0	118	0	pass
#4	122	0	119	0	pass
#5	118	0	117	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	156	>200%	pass
#2	147	>200%	pass
#3	148	>200%	pass
#4	151	>200%	pass
#5	148	>200%	pass

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DESTRUCTIVE SEAM SAMPLES

PROJECT NAME:	Mount Polley Heap Pad	**ENGINEER:**	
PROJECT NO:	62479	**QC TECHNICIAN:**	Gary Watkins
CONTRACTOR:		**MATERIAL:**	60 mil smooth
OWNER:	Imperial Metals	**DATE:**	20-Oct-06
TEST LOCATION:	**tie in seam 4 (slope)**	**COMMENTS:**	**DT # 17**

TENSOMETER PEEL	lbs/in	% SEPARATION	lbs/in	% SEPARATION	COMMENTS
#1	128	0	117	0	pass
#2	123	0	118	0	pass
#3	134'	0	122	0	pass
#4	125	0	121	0	pass
#5	129	0	131	0	pass

TENSOMETER SHEAR	lbs/in	% ELONGATION	COMMENTS
#1	162	>200%	pass
#2	161	>200%	pass
#3	169	>200%	pass
#4	168	>200%	pass
#5	161	>200%	pass

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REPAIR LOG

PROJECT NAME: Mount Polley Heap Pad **ENGINEER:**

PROJECT No.: 62479 **QC TECHNICIAN** Gary Watkins

CONTRACTOR: **MATERIAL** 60 smooth

OWNER: Imperial Metals

Repair #	Repair Type	Repair Size	Repair Date	Repair Tech.	Pick Test	Vac Test	Test Date	Tested By	Repair Location	Comments
1	patch	1' x 2'	11-Oct-06	WH		\	11-Oct-06	GW	seam 1\2	no leaks
2	patch	1' round	11-Oct-06	WH		\	11-Oct-06	GW	seam 2\3	no leaks
3	bead	15'	11-Oct-06	WH		\	11-Oct-06	GW	seam 2\3A	no leaks
4	bead, patch	9', 1'round	13-Oct-06	WH		\	20-Oct-06	GW	panel 1	no leaks
5	patch	3' x 8'	13-Oct-06	WH		\	20-Oct-06	GW	panel 1	no leaks
6	bead, patch	9', 1'round	13-Oct-06	WH		\	20-Oct-06	GW	panel 1	no leaks
7	patch	8' x 10'	14-Oct-06	WH	\		20-Oct-06	GW	tie in 5	no leaks
8	bead	22'	20-Oct-06	WH		\	20-Oct-06	GW	p60-p49	no leaks
9	patch	1' round	14-Oct-06	WH		\	20-Oct-06	GW	tie in 5G	no leaks
10	patch	2' x 3'	20-Oct-06	WH	\		20-Oct-06	GW	seam 61\62	no leaks, DT patch
11	patch	3' x 6'	14-Oct-06	WH		\	20-Oct-06	GW	tie in 2A	no leaks
12	patch	2' x 3'	14-Oct-06	WH		\	20-Oct-06	GW	seam 43\44	no leaks, DT patch
13	patch	2' x 3'	14-Oct-06	WH		\	20-Oct-06	GW	seam 45\46	no leaks, DT patch
14	patch	2' x 3'	14-Oct-06	WH		\	20-Oct-06	GW	seam 47\63	no leaks, DT patch
15	patch	1' round	17-Oct-06	WH		\	20-Oct-06	GW	tie in 3	no leaks
16	patch	1' round	11-Oct-06	WH	\		20-Oct-06	GW	seam 28\29	no leaks
17	patch	1' round	20-Oct-06	WH		\	20-Oct-06	GW	panel 43	no leaks
18	patch	1' x 3'	17-Oct-06	WH		\	20-Oct-06	GW	seam 47\63	no leaks

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REPAIR LOG

PROJECT NAME: Mount Polley Heap Pad **ENGINEER:**

PROJECT No.: 62479 **QC TECHNICIAN** Gary Watkins

CONTRACTOR: **MATERIAL** 60 smooth

OWNER: Imperial Metals

Repair #	Repair Type	Repair Size	Repair Date	Repair Tech.	Pick Test	Vac Test	Test Date	Tested By	Repair Location	Comments
19	patch	1' round	14-Oct-06	WH		\	20-Oct-06	GW	seam 43\44	no leaks
20	patch	1' round	14-Oct-06	WH		\	20-Oct-06	GW	panel 44	no leaks
21	patch	1' round	17-Oct-06	WH		\	20-Oct-06	GW	seam 63\64	no leaks
22	bead	7'	17-Oct-06	WH		\	20-Oct-06	GW	seam 63\64	no leaks
23	patch	1' round	17-Oct-06	WH		\	20-Oct-06	GW	seam 63\64	no leaks
24	patch	1' round	20-Oct-06	WH	\		20-Oct-06	GW	seam 86\87	no leaks
25	patch	1' round	17-Oct-06	WH		\	23-Oct-06	GW	panel 79	no leaks
26	patch	1' round	17-Oct-06	WH		\	23-Oct-06	GW	panel 79	no leaks
27	patch	1' round	17-Oct-06	WH		\	23-Oct-06	GW	panel 79	no leaks
28	patch	2' x 3'	20-Oct-06	WH		\	20-Oct-06	GW	tie in 4	no leaks

QC Technician _____

QA/QC Approval _____

Shipping Order - Packing List - Original - Not Negotiable

GSE Lining Technology, Inc. at HOUSTON, TEXAS

Shippers No. 61773

Ship To: Nilex/Mount Polly Head Pad
Nilex/Mount Polly Head Pad
Customer Pick up
Final Destination Edmonton, Canada

Date: 09/15/06

Roll Certifications Included

Branch Plant: 1500 621821

Shipping Instructions:

Contact Brad 780 463-9535 24 hrs prior to pick uip

Sales Order 48384 SO

No. Line	Roll #	QTY Shipped	UM	Kind of Package, Description of Articles, Special Marks and Exceptions	Weight
1	102126050	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,830.00
2	102126051	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,820.00
3	102126052	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,820.00
4	102126053	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,815.00
5	102126054	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,810.00
6	102126061	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,810.00
7	102126063	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,805.00
8	102126069	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,810.00
9	102126070	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,830.00
10	102126071	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,825.00
11	102126072	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,820.00
12	102126073	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,820.00

Project# 521237

Freight charges are prepaid unless marked collect.

Check box if collect ☐

Customer P.O. Number: E-3800

If this shipment is to be delivered to consignor, consignor shall sign the following statement.

Carrier may decline to deliver this shipment without payment of freight and all other lawful charges.

_____
Signature of Consignor

Local Verification Signed:

X _____

Pick Up # 13900RR

Seal #

Truckers P.O. #

Total Quantity 151,200 Total Weight: 45,815.00

Driver Requirements:

1) Driver must pre call 24 hrs prior to delivery and on Friday for Monday delivery.
2) Driver must call (281) 230-6781 when unloaded.
3) Driver must call and advise any delay in transit.
4) A copy of this bill of lading must accompany Freight invoice.

C111

Carrier Name: _____

Carrier Signature: _____

Date: _____

GSE Lining Technology, Inc

Roll Test Data Report

Bill of Lading: 61773

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48384	521237	Nilex	CPU Canada	HDE060A000	9/15/2006

GSE QC APPROVED

*Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
Roll No.	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @ Yield (%)	MD Elongation @ Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
102126050	62	58	160	157	296	303	17	18	860	839	50	53	148	0.947	2.58	10
102126051	61	57	160	157	296	303	17	18	860	839	50	53	148	0.947	2.58	10
102126052	62	58	160	157	296	303	17	18	860	839	50	53	148	0.947	2.58	10
102126053	61	58	160	150	258	308	16	18	895	860	49	53	146	0.947	2.55	10
102126054	61	58	160	150	258	308	16	18	895	860	49	53	146	0.947	2.55	10
102126061	60	58	148	141	296	298	15	15	888	838	51	52	149	0.947	2.52	10
102126063	61	58	151	150	303	309	15	15	891	850	51	52	149	0.947	2.57	10
102126069	60	57	150	137	301	298	15	15	900	874	48	51	141	0.947	2.65	10
102126070	61	57	150	137	301	298	15	15	900	874	48	51	141	0.947	2.65	10
102126071	61	57	159	149	319	299	17	20	912	821	49	53	155	0.947	2.47	10
102126072	60	58	159	149	319	299	17	20	912	821	49	53	155	0.947	2.47	10
102126073	60	57	159	149	319	299	17	20	912	821	49	53	155	0.947	2.47	10

C112

Approved By: Jane Allen

19103 Gundle Road - Houston, Texas 77073

Shipping Order - Packing List - Original - Not Negotiable

GSE Lining Technology, Inc. at HOUSTON, TEXAS

Shippers No. 61819

Ship To: Nilex/Mount Polly Head Pad
Nilex/Mount Polly Head Pad
Customer Pick up
Final Destination Edmonton, Canada

Roll Certifications Included

Date: 09/18/06

Branch Plant: 1500 621821

Shipping Instructions:

Contact Brad 780 463-9535 24 hrs prior to pick uip

Sales Order 48384 SO

No. Line	Roll #	QTY Shipped	UM	Kind of Package, Description of Articles, Special Marks and Exceptions	Weight
1	101120140	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,820.00
2	101120142	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,850.00
3	101120143	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,844.00
4	101120144	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,846.00
5	101120145	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,834.00
6	101120146	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,830.00
7	101120151	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,842.00
8	101120152	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,848.00
9	101120153	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,840.00
10	102126042	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,810.00
11	102126044	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,830.00
12	102126046	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,815.00

Total Quantity 151,200 Total Weight: 46,009.00

Project# 521237

Freight charges are prepaid unless marked collect.

Check box if collect ☑

Customer P.O. Number: E-3800

If this shipment is to be delivered to consignor, consignor shall sign the following statement.

Carrier may decline to deliver this shipment without payment of freight and all other lawful charges.

Signature of Consignor

Local Verification Signed:

X

Pick Up # 13901RR

Seal #

Truckers P.O. # 0

Driver Requirements:

1) Driver must pre call 24 hrs prior to delivery and on Friday for Monday delivery.
2) Driver must call (281) 230-6781 when unloaded.
3) Driver must call and advise any delay in transit.
4) A copy of this bill of lading must accompany Freight Invoice.

C113

Carrier Name: CPU

Carrier Signature: _____

Date: _____

GSE Lining Technology, Inc

Roll Test Data Report

Bill of Lading: 61819

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48384	521237	Nilex	CPU Canada	HDE060A000	9/18/2006

GSE QC APPROVED

*Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
Roll No.	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @ Yield (%)	MD Elongation @ Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
101120140	62	58	180	149	292	301	15	21	867	789	49	51	152	0.943	2.20	10
101120142	62	58	190	141	317	305	15	21	870	823	49	52	148	0.943	2.27	10
101120143	61	59	190	141	317	305	15	21	870	823	49	52	148	0.943	2.27	10
101120144	62	58	147	148	309	280	17	18	900	790	48	53	152	0.943	2.26	10
101120145	62	57	147	148	309	280	17	18	900	790	48	53	152	0.943	2.26	10
101120146	61	58	147	148	309	280	17	18	900	790	48	53	152	0.943	2.26	10
101120151	62	58	183	148	321	311	18	21	892	808	48	51	147	0.944	2.47	10
101120152	61	59	183	148	321	311	18	21	892	808	48	51	147	0.944	2.47	10
101120153	62	58	212	143	313	326	15	15	848	827	49	53	146	0.944	2.66	10
102126042	61	57	155	149	308	297	17	20	898	809	51	53	151	0.945	2.41	10
102126044	61	58	188	141	317	313	15	21	893	842	51	52	150	0.945	2.64	10
102126046	61	58	188	141	317	313	15	21	893	842	51	52	150	0.945	2.64	10

C114

Approved By: Jane Allen

19103 Gundle Road - Houston, Texas 77073

Shipping Order - Packing List - Original - Not Negotiable

GSE Lining Technology, Inc. at HOUSTON, TEXAS

Shippers No. 61827

Ship To: Nilex/Mount Polly Head Pad
Nilex/Mount Polly Head Pad
Customer Pick up
Final Destination Edmonton, Canada

Date: 09/18/06

Roll Certifications Included

Branch Plant: 1500 621821

Shipping Instructions:

Contact Brad 780 463-9535 24 hrs prior to pick uip

Sales Order 48384 SO

No. Line	Roll #	QTY Shipped	UM	Kind of Package, Description of Articles, Special Marks and Exceptions	Weight
1	101120135	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,818.00
2	101120136	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,820.00
3	101120137	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,828.00
4	101120138	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,830.00
5	101120148	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,840.00
6	101120149	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,832.00
7	101120150	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,840.00
8	102126034	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,810.00
9	102126035	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,820.00
10	102126036	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,820.00
11	102126037	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,825.00
12	102126038	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,840.00

Total Quantity 151,200

Total Weight: 45,923.00

Project# 521237

Freight charges are prepaid unless marked collect.

Check box if collect ☐

Customer P.O. Number: E-3800

If this shipment is to be delivered to consignor, consignor shall sign the following statement.

Carrier may decline to deliver this shipment without payment of freight and all other lawful charges.

Signature of Consignor

Local Verification Signed:

X

Pick Up # 13902RR

Seal #

Truckers P.O. #

Driver Requirements:

1) Driver must pre call 24 hrs prior to delivery and on Friday for Monday delivery.
2) Driver must call (281) 230-6781 when unloaded.
3) Driver must call and advise any delay in transit.
4) A copy of this bill of lading must accompany Freight Invoice.

C115

Carrier Name: _____

Carrier Signature: _____

Date: _____

GSE Lining Technology, Inc

Roll Test Data Report

Bill of Lading: 61827

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48384	521237	Nilex	CPU Canada	HDE060A000	9/18/2006 *Modified

GSE QC APPROVED

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596	
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @ Yield (%)	MD Elongation @ Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2	
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd	
101120135	62	58	155	157	309	329	15	19	858	862	49	52	149	0.943	2.21	10	C116
101120136	61	57	155	157	309	329	15	19	858	862	49	52	149	0.943	2.21	10	
101120137	62	58	155	157	309	329	15	19	858	862	49	52	149	0.943	2.21	10	
101120138	62	58	180	149	292	301	15	21	867	789	49	51	152	0.945	2.20	10	
101120148	61	58	190	150	316	285	18	19	875	765	49	52	148	0.944	2.52	10	
101120149	62	58	190	150	316	285	18	19	875	765	49	52	148	0.944	2.52	10	
101120150	62	58	183	148	321	311	18	21	892	808	48	51	147	0.944	2.47	10	
102126034	62	59	156	157	289	297	16	18	863	808	49	54	153	0.946	2.52	10	
102126035	61	58	162	153	292	292	15	18	877	804	49	52	150	0.945	2.65	10	
102126036	62	58	162	153	292	292	15	18	877	804	49	52	150	0.945	2.65	10	
102126037	61	58	162	153	292	292	15	18	877	804	49	52	150	0.945	2.65	10	
102126038	61	57	155	150	302	296	16	20	874	833	48	54	145	0.945	2.62	10	

Approved By: Jane Allen

19103 Gundle Road - Houston, Texas 77073

Shipping Order - Packing List - Original - Not Negotiable

GSE Lining Technology, Inc. at HOUSTON, TEXAS

Shippers No. 61859

Ship To: Nilex/Mount Polly Head Pad
Nilex/Mount Polly Head Pad
Customer Pick up
Final Destination Edmonton, Canada

Roll Certifications Included

Date: 09/19/06

Branch Plant: 1500 621821

Shipping Instructions:

Contact Brad 780 463-9535 24 hrs prior to pick uip

Sales Order
48384 SO

No. Line	Roll #	QTY Shipped	UM	Kind of Package, Description of Articles, Special Marks and Exceptions	Weight
1	101120132	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,810.00
2	101120133	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,840.00
3	101120134	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,850.00
4	101120139	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,834.00
5	101120141	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,824.00
6	101120147	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,840.00
7	101120154	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,858.00
8	101120155	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,888.00
9	102126039	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,825.00
10	102126040	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,820.00
11	102126041	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,805.00
12	102126049	12600	SF	HDE060A000 60 mil Avg GSE HD Blk, HD, Smooth, 22.5'	3,825.00

Project# 521237

Freight charges are prepaid unless marked collect.

Check box if collect ☐

Customer P.O. Number: E-3800

If this shipment is to be delivered to consignor, consignor shall sign the following statement:

Carrier may decline to deliver this shipment without payment of freight and all other lawful charges.

Signature of Consignor

Local Verification Signed:

X

Pick Up # 13903RR

Seal #

Truckers P.O. #

Total Quantity 151,200 Total Weight: 46,019.00

Driver Requirements:

1) Driver must pre call 24 hrs prior to delivery and on Friday for Monday delivery.
2) Driver must call (281) 230-6781 when unloaded.
3) Driver must call and advise any delay in transit.
4) A copy of this bill of lading must accompany Freight Invoice.

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Carrier Name: _____

Carrier Signature: _____

Date: _____

GSE Lining Technology, Inc

Roll Test Data Report

Bill of Lading: 61859

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48384	521237	Nilex	CPU Canada	HDE060A000	9/19/2006

GSE QC APPROVED

*Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
Roll No.	Average Thickness (mils) every roll	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @ Yield (%)	MD Elongation @ Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
	every 3rd										every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
101120132	62	58	160	155	306	286	16	18	875	771	50	53	152	0.943	2.24	10
101120133	61	58	160	155	306	286	16	18	875	771	50	53	152	0.943	2.24	10
101120134	62	58	160	155	306	286	16	18	875	771	50	53	152	0.943	2.24	10
101120139	62	58	180	149	292	301	15	21	867	789	49	51	152	0.945	2.20	10
101120141	61	57	190	141	317	305	15	21	870	823	49	52	148	0.943	2.27	10
101120147	61	57	190	150	316	285	18	19	875	765	49	52	148	0.944	2.52	10
101120154	62	58	212	143	313	326	15	15	848	827	49	53	146	0.944	2.66	10
101120155	62	58	212	143	313	326	15	15	848	827	49	53	146	0.944	2.66	10
102126039	61	58	155	150	302	296	16	20	874	833	48	54	145	0.945	2.62	10
102126040	61	57	155	150	302	296	16	20	874	833	48	54	145	0.945	2.62	10
102126041	61	58	155	149	308	297	17	20	898	809	51	53	151	0.945	2.41	10
102126049	60	57	155	146	299	310	15	15	864	836	51	53	152	0.945	2.59	10

C118

Approved By: Jane Allen

19103 Gundle Road - Houston, Texas 77073

Shipping Order - Packing List - Original - Not Negotiable

GSE Lining Technology, Inc. at Kingstree, SC

Shippers No. 61823

Ship To: Nilex/Mount Polly Head Pad
Nilex/Mount Polly Head Pad
Customer Pick up
Final Destination Edmonton, Canada

Date: 09/18/06

Branch Plant: 1503 621822

Shipping Instructions:

Contact Brad 780 463-9535 24 hrs prior to pick uip

Sales Order 48384 SO

No. Line	Roll #	QTY Shipped	UM	Kind of Package, Description of Articles, Special Marks and Exceptions	Weight
1	131224245	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	840.00
2	131224246	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	829.00
3	131224247	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	826.00
4	131224248	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	834.00
5	131224249	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	825.00
6	131224250	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	824.00
7	131224251	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	825.00
8	131224252	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	821.00
9	131224253	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	820.00
10	131224255	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	831.00
11	131224256	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	833.00
12	131224257	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	830.00
13	131224258	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	828.00
14	131224259	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	830.00
15	131224260	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	833.00
16	131224261	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	828.00
17	131224262	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	834.00
	121,500			*Continued on next page.....*	22,459.00

Project# 521237

Freight charges are prepaid unless marked collect.

Check box if collect ☑

Customer P.O. Number: E-3800

If this shipment is to be delivered to consignor, consignor shall sign the following statement.

Carrier may decline to deliver this shipment without payment of freight and all other lawful charges.

Gary Miller
Signature of Consignor

Local Verification Signed:

x Chase Hodge

Pick Up # 7943KS

Seal # 251965

Truckers P.O. #

Driver Requirements:

1) Driver must pre call 24 hrs prior to delivery and on Friday for Monday delivery.
2) Driver must call (843) 201-1520 when unloaded.
3) Driver must call and advise any delay in transit.
4) A copy of this bill of lading must accompany Freight Invoice.

C119

Carrier Name: CPU/Traffic Ted

Carrier Signature: [signature]

Date: 9-18-06

Shipping Order - Packing List - Original - Not Negotiable

GSE Lining Technology, Inc. at Kingstree, SC

Shippers No. 61823

Received at Kingstree, SC from GSE Lining Technology, Inc. the property described below, in apparent good order, except as noted (contents and condition of packages unknown), marked, consigned, and destined as indicated below, which said Carrier agrees to carry to the place of delivery at said destination. It is mutually agreed as to each Carrier of all or any said property, over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service performed hereunder shall be subject to the rates and contract agreed to in writing by GSE Lining Technology, Inc. and Carrier. GSE Lining Technology, Inc.'s obligation to pay freight charges for the shipment is conditioned on (1) the existence of a separate written contract with the carrier transporting the freight and (2) the carrier's name appearing on this Bill of Lading, and other carriers must look solely to a party other than GSE Lining Technology, Inc. for payment.

Ship To: Nilex/Mount Polly Head Pad
Nilex/Mount Polly Head Pad
Customer Pick up
Final Destination Edmonton, Canada

Date: 09/18/06

Branch Plant: 1503 621822

Shipping Instructions:

Contact Brad 780 463-9535 24 hrs prior to pick uip

Sales Order 48384 SO

No. Line	Roll #	QTY Shipped	UM	Kind of Package, Description of Articles, Special Marks and Exceptions	Weight
18	131224263	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	837.00
19	131224264	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	835.00
20	131224265	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	836.00
21	131224266	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	835.00
22	131224267	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	834.00
23	131224271	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	836.00
24	131224272	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	834.00
25	131224275	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	841.00
26	131224276	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	844.00
27	131224277	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	836.00

Total Quantity 121,500

Total Weight: 22,459.00

Project# 521237

Freight charges are prepaid unless marked collect.

Check box if collect ☐

Customer P.O. Number: E-3800

If this shipment is to be delivered to consignor, consignor shall sign the following statement.

Carrier may decline to deliver this shipment without payment of freight and all other lawful charges.

Signature of Consignor

Local Verification Signed:

X

Pick Up # 7943KS

Seal # 251965

Truckers P.O. #

Driver Requirements:

1) Driver must pre call 24 hrs prior to delivery and on Friday for Monday delivery.
2) Driver must call (843) 201-1520 when unloaded.
3) Driver must call and advise any delay in transit.
4) A copy of this bill of lading must accompany Freight Invoice.

C120

Carrier Name: _____

Carrier Signature: _____

Date: _____

GSE Nonwoven Technolog

Roll Test Data Report

Bill of Lading: 61823

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48384	521237	Nilex	Customer Pick Up/Canada	XL4000N004	9/18/2006

GSE QC APPROVED

*Modified

Roll No.	ASTM D 5199 Average Thickness (mils) every 10th	ASTM D 5035 Geonet Tensile Strength (ppi) every 10th	ASTM D 1603* Carbon Black Content (%) every 10th	ASTM D 1505 Density (g/cc) every 10th
131224245	244	66	2.4	0.963
131224246	244	66	2.4	0.963
131224247	244	66	2.4	0.963
131224248	244	66	2.4	0.963
131224249	244	66	2.4	0.963
131224250	244	66	2.4	0.963
131224251	244	66	2.4	0.963
131224252	244	66	2.4	0.963
131224253	241	66	2.3	0.962
131224255	241	66	2.3	0.962
131224256	241	66	2.3	0.962
131224257	241	66	2.3	0.962
131224258	241	66	2.3	0.962
131224259	241	66	2.3	0.962
131224260	241	66	2.3	0.962
131224261	241	66	2.3	0.962
131224262	241	66	2.3	0.962
131224263	242	62	2.2	0.963
131224264	242	62	2.2	0.963
131224265	242	62	2.2	0.963
131224266	242	62	2.2	0.963
131224267	242	62	2.2	0.963
131224271	242	62	2.2	0.963
131224272	242	62	2.2	0.963
131224275	243	65	2.5	0.962
131224276	243	65	2.5	0.962
131224277	243	65	2.5	0.962

Approved By: _____

Shipping Order - Packing List - Original - Not Negotiable

GSE Lining Technology, Inc. at Kingstree, SC

Shippers No. 61849

Received at Kingstree, SC from GSE Lining Technology, Inc. the property described below, in apparent good order, except as noted (contents and condition of packages unknown), marked, consigned, and destined as indicated below, which said Carrier agrees to carry to the place of delivery at said destination. It is mutually agreed as to each Carrier of all or any said property, over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service performed hereunder shall be subject to the rates and contract agreed to in writing by GSE Lining Technology, Inc. and Carrier. GSE Lining Technology, Inc.'s obligation to pay freight charges for the shipment is conditioned on (1) the existence of a separate written contract with the carrier transporting the freight and (2) the carrier's name appearing on this Bill of Lading, and other carriers must look solely to a party other than GSE Lining Technology, Inc. for payment.

Ship To: Nilex/Mount Polly Head Pad
Nilex/Mount Polly Head Pad
Customer Pick up
Final Destination Edmonton, Canada

Roll Certifications Included

Date: 09/19/06

Branch Plant: 1503 621823

Shipping Instructions:

Contact Brad 780 463-9535 24 hrs prior to pick uip

Sales Order 48384 SO

No. Line	Roll #	QTY Shipped	UM	Kind of Package, Description of Articles, Special Marks and Exceptions	Weight
1	130234467	500	SY	GEO1008002 Geotextile 10 oz/yd2 MARV	351.00
2	130234468	500	SY	GEO1008002 Geotextile 10 oz/yd2 MARV	353.00
3	130234469	500	SY	GEO1008002 Geotextile 10 oz/yd2 MARV	355.00
4	130234470	500	SY	GEO1008002 Geotextile 10 oz/yd2 MARV	360.00
5	130234471	500	SY	GEO1008002 Geotextile 10 oz/yd2 MARV	361.00
6	130234472	500	SY	GEO1008002 Geotextile 10 oz/yd2 MARV	363.00
7	130234473	500	SY	GEO1008002 Geotextile 10 oz/yd2 MARV	361.00
8	130234474	500	SY	GEO1008002 Geotextile 10 oz/yd2 MARV	357.00
9	130234475	500	SY	GEO1008002 Geotextile 10 oz/yd2 MARV	350.00
10	131224212	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	904.00
11	131224213	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	864.00
12	131224214	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	860.00
13	131224215	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	861.00
14	131224216	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	837.00
15	131224217	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	841.00
16	131224221	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	841.00
17	131224224	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	838.00
	67,500				15,106.00

Continued on next page...

2 Bags

Project# 521237

Freight charges are prepaid unless marked collect.

Check box if collect ☑

Customer P.O. Number: E-3800

If this shipment is to be delivered to consignor, consignor shall sign the following statement.

Carrier may decline to deliver this shipment without payment of freight and all other lawful charges.

Signature of Consignor

Local Verification Signed:

Pick Up # 7945KS

Seal # K-251969

Truckers P.O. #

Driver Requirements:

TRL# 7002

1) Driver must pre call 24 hrs prior to delivery and on Friday for Monday delivery.
2) Driver must call (843) 201-1520 when unloaded.
3) Driver must call and advise any delay in transit.
4) A copy of this bill of lading must accompany Freight Invoice.

C122

Carrier Name: CPL/Traffic Tech

Carrier Signature:

Date: 9-19-06

Shipping Order - Packing List - Original - Not Negotiable

GSE Lining Technology, Inc. at Kingstree, SC

Shippers No. 61849

Ship To: Nilex/Mount Polly Head Pad
Nilex/Mount Polly Head Pad
Customer Pick up
Final Destination Edmonton, Canada

Date: 09/19/06

Branch Plant: 1503 621823

Shipping Instructions:

Contact Brad 780 463-9535 24 hrs prior to pick uip

Sales Order 48384 SO

No. Line	Roll #	QTY Shipped	UM	Kind of Package, Description of Articles, Special Marks and Exceptions	Weight
18	131224225	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	841.00
19	131224227	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	840.00
20	131224228	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	843.00
21	131224230	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	840.00
22	131224231	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	843.00
23	131224232	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	842.00

Total Quantity 67,500 Total Weight: 15,106.00

Project# 521237

Freight charges are prepaid unless marked collect.

Check box if collect ☐

Customer P.O. Number: E-3800

If this shipment is to be delivered to consignor, consignor shall sign the following statement.

Carrier may decline to deliver this shipment without payment of freight and all other lawful charges.

Signature of Consignor

Local Verification Signed:

X

Pick Up # 7945KS

Seal #

Truckers P.O. #

Driver Requirements:

1) Driver must pre call 24 hrs prior to delivery and on Friday for Monday delivery.
2) Driver must call (843) 201-1520 when unloaded.
3) Driver must call and advise any delay in transit.
4) A copy of this bill of lading must accompany Freight Invoice.

C123

Carrier Name: _____

Carrier Signature: _____

Date: _____

GSE Nonwoven Technolog

Roll Test Data Report

Bill of Lading: 61849

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48384	521237	Nilex	Customer Pick Up/Canada	XL4000N004	9/19/2006 *Modified

GSE QC APPROVED

Roll No.	ASTM D 5199 Average Thickness (mils) every 10th	ASTM D 5035 Geonet Tensile Strength (ppi) every 10th	ASTM D 1603* Carbon Black Content (%) every 10th	ASTM D 1505 Density (g/cc) every 10th
131224212	242	65	2.4	0.964
131224213	240	65	2.3	0.963
131224214	240	65	2.3	0.963
131224215	240	65	2.3	0.963
131224216	240	65	2.3	0.963
131224217	240	65	2.3	0.963
131224221	240	65	2.3	0.963
131224224	244	65	2.3	0.963
131224225	244	65	2.3	0.963
131224227	244	65	2.3	0.963
131224228	244	65	2.3	0.963
131224230	244	65	2.3	0.963
131224231	244	65	2.3	0.963
131224232	244	65	2.3	0.963

Approved By: _____

GSE GSE Nonwoven Technology

Roll Test Data Report

Bill of Lading: 61849

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
3384	521237	Nilex	Customer Pick Up/Canada	GEO1008002	9/19/2006 *Modified

QC APPROVED

	ASTM D 4491			ASTM D 4751	ASTM D 3786	ASTM D 4833	ASTM D 4533		ASTM D 4632				ASTM D 5199	ASTM D 5261
	Average Sample Flow Rate (gallon min ft2)	Water permeability (cm sec)	Permittivity (Sec-1)	Apparent Opening Size (mm)	Mullen Burst Strength (psi)	Puncture Resistance (lbs)	Trap Tear Strength CD (lbs)	Trap Tear Strength MD (lbs)	Grab Elongation CD (%)	Grab Elongation MD (%)	Grab Strength CD (lbs)	Grab Strength MD (lbs)	Thickness (mils)	Mass per Unit Area (oz. yd2)
Roll No.		every 60th		every roll	every 20th	every 20th	every 20th		every 20th				every 20th	every 20th
30234467	113	0.40	1.5	0.150	582	205	174	207	129	97	460	343	100	11.6
30234468	113	0.40	1.5	0.150	528	174	246	173	135	118	368	304	142	10.5
30234469	113	0.40	1.5	0.150	528	174	246	173	135	118	368	304	142	10.5
30234470	113	0.40	1.5	0.150	528	174	246	173	135	118	368	304	142	10.5
30234471	113	0.40	1.5	0.150	528	174	246	173	135	118	368	304	142	10.5
30234472	113	0.40	1.5	0.150	528	174	246	173	135	118	368	304	142	10.5
30234473	113	0.40	1.5	0.150	528	174	246	173	135	118	368	304	142	10.5
30234474	113	0.40	1.5	0.150	528	174	246	173	135	118	368	304	142	10.5
30234475	113	0.40	1.5	0.150	528	174	246	173	135	118	368	304	142	10.5

C125

Approved By: _____

Shipping Order - Packing List - Original - Not Negotiable

GSE Lining Technology, Inc. at Kingstree, SC

Shippers No. 61844

Ship To: Nilex/Mount Polly Head Pad
Nilex/Mount Polly Head Pad
Customer Pick up
Final Destination Edmonton, Canada

Roll Certifications Included

Date: 09/19/06

Branch Plant: 1503 621822

Shipping Instructions:

Contact Brad 780 463-9535 24 hrs prior to pick uip

Sales Order 48384 SO

No. Line	Roll #	QTY Shipped	UM	Kind of Package, Description of Articles, Special Marks and Exceptions	Weight
1	131224218	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	843.00
2	131224219	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	840.00
3	131224220	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	841.00
4	131224222	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	839.00
5	131224223	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	840.00
6	131224226	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	840.00
7	131224229	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	842.00
8	131224233	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	840.00
9	131224234	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	844.00
10	131224235	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	842.00
11	131224236	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	839.00
12	131224237	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	830.00
13	131224238	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	831.00
14	131224239	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	830.00
15	131224240	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	827.00
16	131224241	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	832.00
17	131224242	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	830.00
	121,500				22,573.00

Project# 521237

Freight charges are prepaid unless marked collect.

Check box if collect ☑

Customer P.O. Number: E-3800

If this shipment is to be delivered to consignor, consignor shall sign the following statement.

Carrier may decline to deliver this shipment without payment of freight and all other lawful charges.

Signature of Consignor

Local Verification Signed:

Pick Up # 7944KS

Seal # K251966

Truckers P.O. #

Continued on next page....

TRL# 737

Driver Requirements:

1) Driver must pre call 24 hrs prior to delivery and on Friday for Monday delivery.
2) Driver must call (843) 201-1520 when unloaded.
3) Driver must call and advise any delay in transit.
4) A copy of this bill of lading must accompany Freight Invoice.

C126

Carrier Name: CPL Trasco Teel

Carrier Signature:

Date: 9/19/06

Shipping Order - Packing List - Original - Not Negotiable

GSE Lining Technology, Inc. at Kingstree, SC

Shippers No. 61844

Received at Kingstree, SC from GSE Lining Technology, Inc. the property described below, in apparent good order, except as noted (contents and condition of packages unknown), marked, consigned, and destined as indicated below, which said Carrier agrees to carry to the place of delivery at said destination. It is mutually agreed as to each Carrier of all or any said property, over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service performed hereunder shall be subject to the rates and contract agreed to in writing by GSE Lining Technology, Inc. and Carrier. GSE Lining Technology, Inc.'s obligation to pay freight charges for the shipment is conditioned on (1) the existence of a separate written contract with the carrier transporting the freight and (2) the carrier's name appearing on this Bill of Lading, and other carriers must look solely to a party other than GSE Lining Technology, Inc. for payment.

Ship To: Nilex/Mount Polly Head Pad
Nilex/Mount Polly Head Pad
Customer Pick up
Final Destination Edmonton, Canada

Date: 09/19/06

Branch Plant: 1503 621822

Shipping Instructions:

Contact Brad 780 463-9535 24 hrs prior to pick uip

Sales Order 48384 SO

No. Line	Roll #	QTY Shipped	UM	Kind of Package, Description of Articles, Special Marks and Exceptions	Weight
18	131224243	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	828.00
19	131224244	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	833.00
20	131224254	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	828.00
21	131224268	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	833.00
22	131224269	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	829.00
23	131224270	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	834.00
24	131224273	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	839.00
25	131224274	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	837.00
26	131224278	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	840.00
27	131224279	4500	SF	XL4000N004 HyperNet Geonet, Std, 15'	842.00

Total Quantity 121,500

Total Weight: 22,573.00

Project# 521237

Freight charges are prepaid unless marked collect.

Check box if collect ☐

Customer P.O. Number: E-3800

If this shipment is to be delivered to consignor, consignor shall sign the following statement.

Carrier may decline to deliver this shipment without payment of freight and all other lawful charges.

Signature of Consignor

Local Verification Signed:

X

Pick Up # 7944KS

Seal #

Truckers P.O. #

Driver Requirements:

1) Driver must pre call 24 hrs prior to delivery and on Friday for Monday delivery.
2) Driver must call (843) 201-1520 when unloaded.
3) Driver must call and advise any delay in transit.
4) A copy of this bill of lading must accompany Freight Invoice.

C127

Carrier Name: _____

Carrier Signature: _____

Date: _____

Roll Test Data Report

GSE Nonwoven Technolog

Bill of Lading: 61844

Sales Order No.	*Project Number*	*Customer Name*	*Project Location*	*Product Name*	*Report Date*
48384	521237	Nilex	Customer Pick Up/Canada	XL4000N004	9/19/2006 *Modified

GSE QC APPROVED

Roll No.	*ASTM D 5199 Average Thickness (mils) every 10th*	*ASTM D 5035 Geonet Tensile Strength (ppi) every 10th*	*ASTM D 1603* Carbon Black Content (%) every 10th*	*ASTM D 1505 Density (g/cc) every 10th*
131224218	240	65	2.3	0.963
131224219	240	65	2.3	0.963
131224220	240	65	2.3	0.963
131224222	240	65	2.3	0.963
131224223	244	65	2.3	0.963
131224226	244	65	2.3	0.963
131224229	244	65	2.3	0.963
131224233	241	65	2.2	0.964
131224234	241	65	2.2	0.964
131224235	241	65	2.2	0.964
131224236	241	65	2.2	0.964
131224237	241	65	2.2	0.964
131224238	241	65	2.2	0.964
131224239	241	65	2.2	0.964
131224240	241	65	2.2	0.964
131224241	241	65	2.2	0.964
131224242	241	65	2.2	0.964
131224243	244	66	2.4	0.963
131224244	244	66	2.4	0.963
131224254	241	66	2.3	0.962
131224268	242	62	2.2	0.963
131224269	242	62	2.2	0.963
131224270	242	62	2.2	0.963
131224273	243	65	2.5	0.962
131224274	243	65	2.5	0.962
131224278	243	65	2.5	0.962
131224279	243	65	2.5	0.962

Approved By: _____

NILEX CONSTRUCTION INC.

9304-39th Avenue
Edmonton, AB T6E 5T9
PH: (780) 463-9535
Fax: (780) 463-1773

CERTIFICATE OF COMPLETION

Owner Imperial Metals
Engineer Bruno Borntraeger (Knight Piesold Ltd)
Contractor
Material 60 mil Smooth HDPE

Job # 062479
Project Mount Polley Leach Pad.
Location Mount Polley Mine B.C.
Site Super. GARY WATKINS
Date November 15, 2006

On November 15, 2006 a joint inspection was held at the above referenced project with a representative of the owner/general contractor and a Nilex Construction Inc. representative. The installation of the work by Nilex Construction Inc. was found to be in compliance with the contract/specification.

COMMENTS

All work completed as per contract with all Quality Control Documentation to be submitted in Nilex turnover package.

Customer

Jim MacDonald Nov. 15/06
Signature Date

Jim McDonald QC Engineer
Print Name and Title

Nilex Construction Inc.

Gary Watkins Nov 15/06
Signature Date

GARY WATKINS FOREMAN/QC.
Print Name and Title

Knight Piésold
CONSULTING

APPENDIX D

CONSTRUCTION PHOTOGRAPHS

(Page D1 to D21)

PHOTO 1 – Preparing the open excavation for prepared sub grade

PHOTO 2 – Compacted open excavation

MOUNT POLLEY MINING CORPORATIO
MOUNT POLLEY MINE

PHOTO 3 – Placement of Zone F – prepared sub grade

PHOTO 4 – Placement of Zone S on the side slopes

PHOTO 5 – Placement of second layer of Zone S

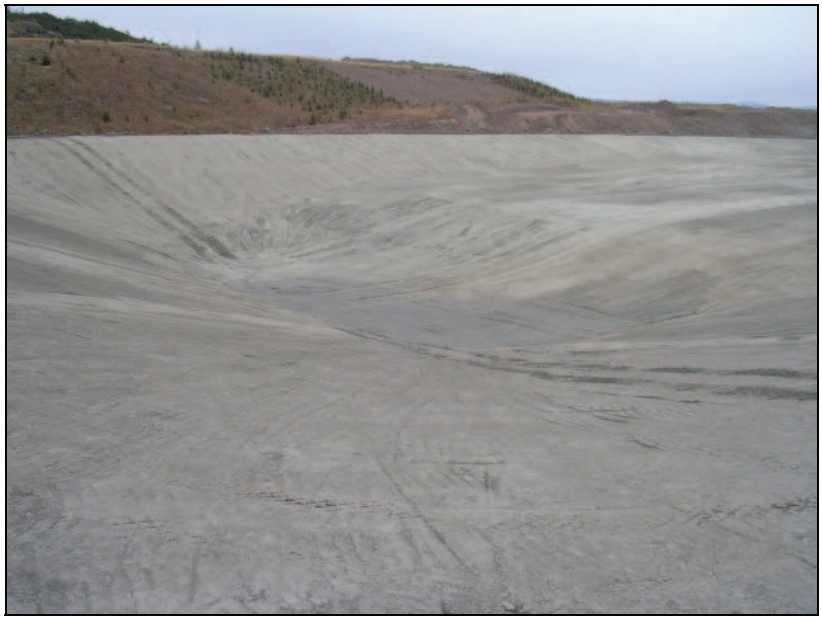

PHOTO 6 – Zone S placement completed

PHOTO 7 – First panel of HDPE liner placed in sump area

PHOTO 8– Wedge welding two panels together

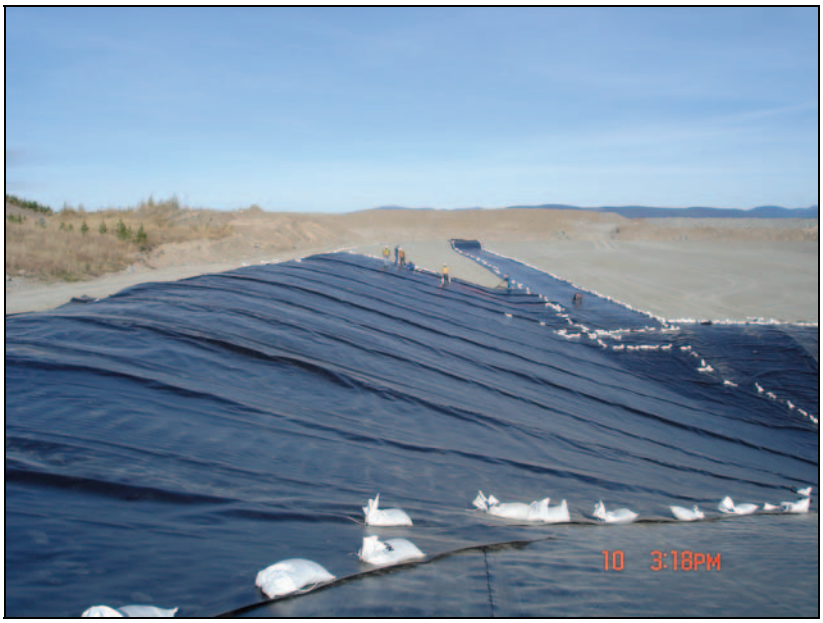

PHOTO 9 – Sand bags used to temporarily hold the liner in place

PHOTO 10 – Extruder used to weld two panels together.

MOUNT POLLEY MINING CORPORATIO
MOUNT POLLEY MINE

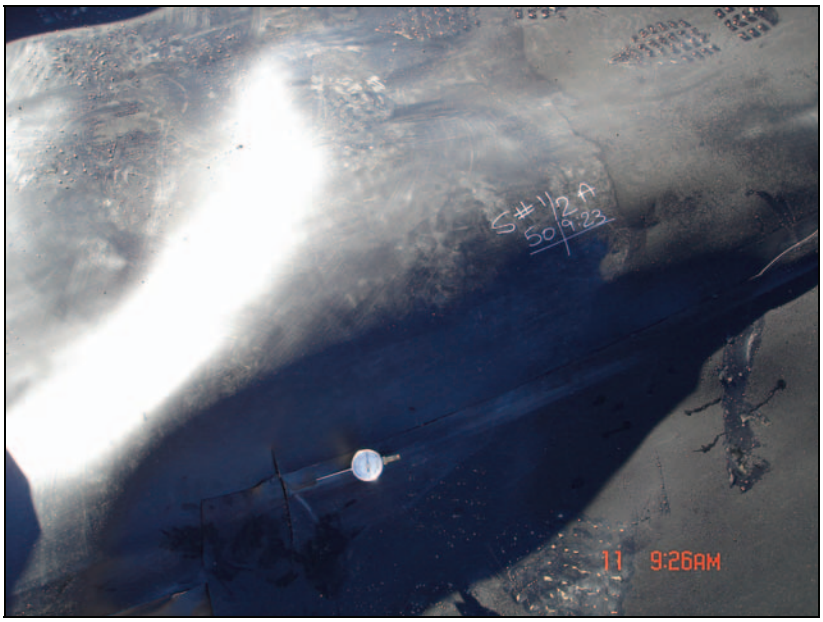

PHOTO 11 – Pressure test on Seam # 1/2 A

PHOTO 12 – Vacuum test on extruded seam

MOUNT POLLEY MINING CORPORATIO
MOUNT POLLEY MINE

PHOTO 13 – Cutting pieces from a destructive sample

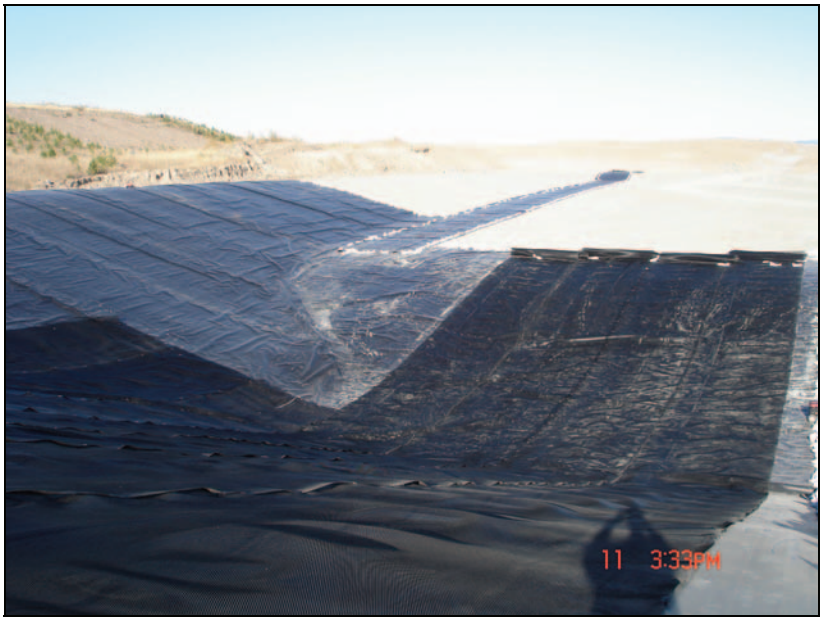

PHOTO 14 – Geonet placed in the sump area

PHOTO 15 – Placement of geotextile, CPT pipe, and LCRS drain rock

PHOTO 16 – Slotted 200 mm PVC riser pipe

PHOTO 17 – Geotextile wrapped around the end of 200 mm PVC riser pipe.

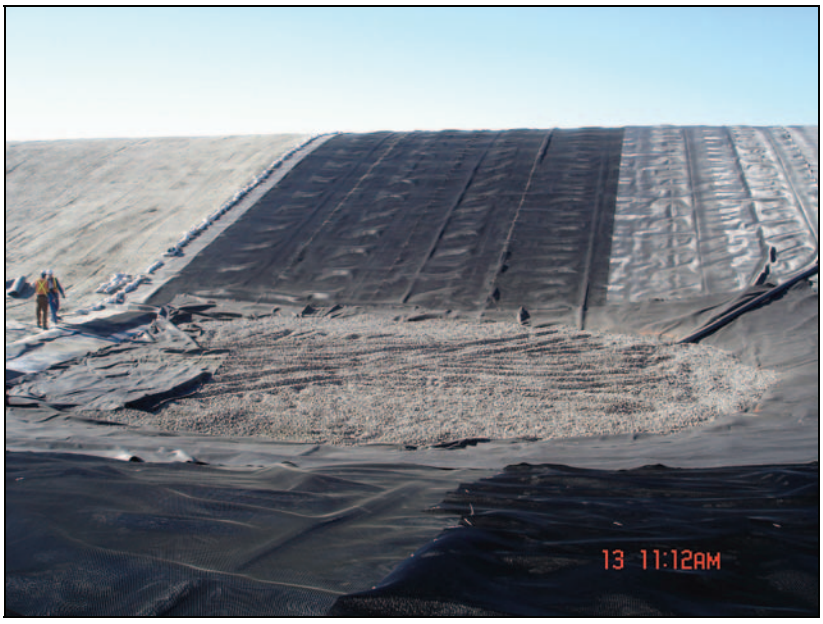

PHOTO 18 – LCRS drain rock placed

PHOTO 19 – Peel and shear testing using a tensiometer.

PHOTO 20 – Preparing the surface of a patch for extruder.

PHOTO 21 – Ties used to hold the Geonet together

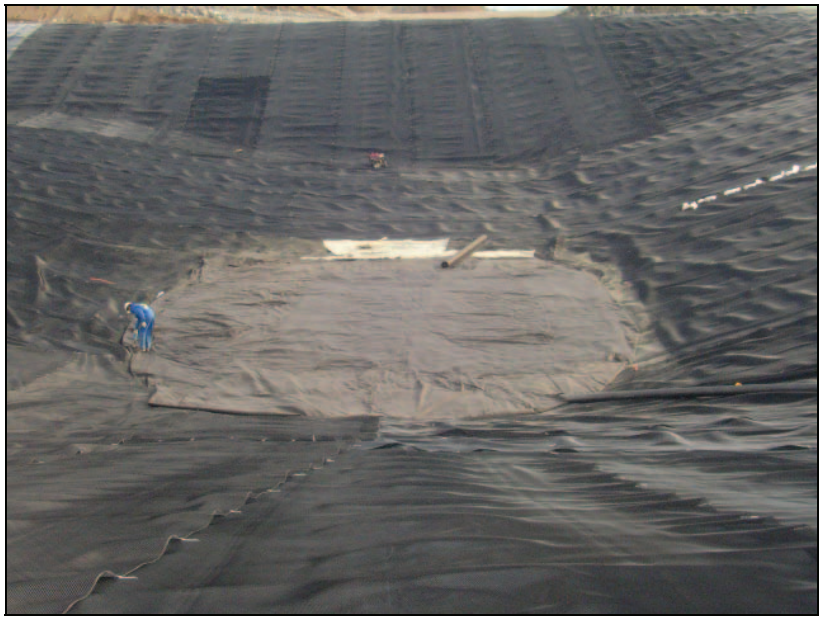

PHOTO 22 – Geotextile wrapped around the LCRS drain rock

PHOTO 23 – Placement of the second HDPE liner in the sump area.

PHOTO 24 – Geonet placed on the floor area.

PHOTO 25 – Wedge welding a corner seam.

PHOTO 26 – Mule used to pull panels along the floor area.

PHOTO 27 – First snow storm caused delays

PHOTO 28 – Ice in the sump area caused delays

PHOTO 29 – Snow and ice removal from Geonet

PHOTO 30 – Extruding a tie in seam.

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PHOTO 31 – Pressure testing a tie in seam

PHOTO 32 – Snow and Ice removal form sump area

PHOTO 33 – Snow removal to finish welding the tie in seam

PHOTO 34 – Placement of “skirt” around exit area of the LCRS riser pipe.

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PHOTO 35 – Extruding the LCRS riser pipe “skirt”

PHOTO 36 – Placement of “skirt” around the LCRS riser pipe.

PHOTO 37 – Placement excavated trench material back into the trench.

PHOTO 38 – Placement of Zone S material into the trench.

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PHOTO 39 – Pump at the Cariboo Pit pumping to the leach pad.

PHOTO 40 – Pipe from the Cariboo Pit

PHOTO 41 – Filling with water during hydrostatic test.