

FAX COVER SHEET

**MOUNT POLLEY MINING
CORPORATION**

A DIVISION OF IMPERIAL METALS CORPORATION

DATE: SEPT. 1/00

ATTENTION TO:

GEORGE HEADLY

COMPANY NAME:

MEMPR.

FAX NO:

NUMBER OF PAGES:
INCLUDING COVER

13

FROM:

ERIC LENEVE

PHONE:

250-790-2215
OR VANCOUVER LINES
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FAX NO:

250-790-2268

LOG NUMBER:

11527

REMARKS:

☐

URGENT

☐

FOR YOUR INFORMATION

☐

REPLY ASAP

☒

PLEASE COMMENT

SUBJECT:GEORGE; TSE ROCK BORROW
WALL DESIGN
COMMENT, APPROVAL?

Knight Piésold
CONSULTING

Mr. Don Parsons
Mine Superintendent
Mount Polley Mining Corporation
Box 12
Likely, BC V0L 1N0

Dear Mr. Parsons,

Knight Piésold Ltd.

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Our Reference: 11162/13.01
Number: 0/1854

August 22, 2000

Re: Mount Polley Mine
Tailings Storage Facility
Rock Borrow Bench Stability Assessment

1.0 INTRODUCTION

Mount Polley Mining Corporation (MPMC) is currently constructing the Stage 3 raise of the Tailings Storage Facility. Fill materials for the downstream shell zone of the Main Embankment comprise drilled and blasted rock taken from the Rock Borrow, which is located northwest of the facility. Drilling and blasting is carried out by the principal contractor, Tercon Contractors Ltd. (TCL), following initial development by MPMC.

Knight Piésold was requested to assess the stability of the Rock Borrow after the first bench face was exposed. The assessment included a review of the proposed bench design, surface mapping and evaluation of geotechnical data. The results of the assessment, with recommendations regarding bench design, are provided herein.

2.0 ROCK BORROW LAYOUT

The Rock Borrow layout comprises northwest, southwest and southeast walls as shown in plan on Figure 2.1. The proposed development plan consists of the formation of a 20 m high double bench with a 10 m berm and 70 degree bench-face slope. The design inter-ramp slope is 49 degrees. The ultimate height of the borrow walls will be approximately 46 m. Access is from the southeast.

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The geology of the Rock Borrow primarily consists of megacrystic granite, characterized by large feldspar phenocrysts with a distinct augen shape. The granite is cut by dykes of varying composition, including monzonite, red granite, and a white volcanic.

3.0 GEOTECHNICAL DATA

3.1 Geotechnical Data Collection

Surface mapping of the exposed face on the El. 1020 bench was conducted by Mr. Jeremy Kinch on August 12 and 14, 2000. The investigation included measurements of dip and dip direction as well as qualitative assessment of exposed rock joints. A total of 94 structures were measured along a 180 m traverse. A photographic log was also compiled.

3.2 Rock Mass Structure

The results of surface mapping on the El. 1020 bench are shown in stereographic projection on Figure 3.1. The rock is highly jointed. Joints are typically closely spaced and continuous, with smooth, planar to slightly undulating surfaces. Clay gouge was observed along 25 percent of joints. Dykes, faults and shears were also identified. Four dominant joint planes were identified:

- Plane A dips at 49 degrees toward the southeast and daylights in the northwest wall, as shown in Photograph 1.
- Plane B dips at 81 degrees toward the northeast and strikes sub-parallel to the southwest wall, as shown in Photograph 2.
- Plane C dips at 38 degrees toward the north-northwest.
- Plane D dips at 85 degrees toward the southwest.

The noted dip angles represent average values and the average orientations are included in Figure 3.1. Minor faults and shears within the rock are oriented parallel

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Planes A, B and C. The orientation of dykes is somewhat random. These structures are characterized by highly fractured rock.

No water was observed in the face, although staining was observed on joint surfaces. Clay gouge was typically dry to moist. The more heavily fractured fault zones and dykes may act as conduits for water, as several holes drilled from the El. 1020 bench were wet. Anecdotal evidence also indicates wet zones within the rock mass.

4.0 BENCH STABILITY ASSESSMENT AND DESIGN

4.1 Northwest Wall

The type of instability along the northwest wall is characterized by planar sliding due to Plane A that strikes sub-parallel to and dips out of this wall as illustrated in Photograph 1. This type of instability results in slabs sliding into the Rock Borrow, although the close joint spacing of Plane A limits the size of the slabs. The proposed MPMC design bench configuration with a 10m berm (and bench height 20m) results in an inter-ramp angle approximately equal to the average dip of Plane A (49 degrees). The proposed design can be expected to give rise to further sliding and slabbing with subsequent excavation of the lower benches.

In order to minimize the size and occurrence of slabs along this wall it is recommended that MPMC adopt a 13m wide berm that results in an inter-ramp angle of 45 degrees. This flatter slope will decrease the number of joint planes that will daylight along this wall and instabilities, if at all, will be limited to the partial loss of the crest of the berm. This expected occurrence of instability should not manifest into any type of larger significant failure along this wall. Access along this wall may however not be possible and should not be planned.

4.2 Southwest Wall

Instability along the southwest wall is characterized by ravelling due to Plane B that strikes sub-parallel to this wall. Planes A and C combine to form shallow dipping wedges along the southwest wall. Small wedges have been dislodged with blasting, however no unstable large wedges were observed or are anticipated as the close

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spacing of Plane B limits the size of the wedges. This is illustrated in Photographs 2 and 3. The current MPMC design bench configuration with a berm width of 10m will serve to catch all small wedges and raveling along the southwest wall.

4.3 Southeast Wall

No types of failure or instabilities have been observed or are anticipated along the southeast wall since the dominant joint sets are favourably oriented as shown in Photograph 4.

5.0 RECOMMENDATIONS

A minimum 13m wide berm should be provided along the northwest wall between the 20m high benches. Excavation along the northwest wall will then only result in the localized loss of the crests of the berm. It is not recommended that this area of the Rock Borrow be used or planned for access.

The southwest wall will continue to ravel but no large-scale failures are anticipated. The 10 m wide berm should be sufficient to catch raveling and small wedges. The favourable orientation of the southeast wall will allow for a narrower berm width than 10 m. The 8 m minimum width required by the Mines Act is considered to be sufficient. This wall is also the most favourable location for access ramps.

The recommended bench configurations for each of the walls are shown in Figure 5.1. Controlled bench blasting in terms of closely spaced holes and/or reduced charge weights along the final row of holes for the northwest and southwest walls will minimize the amount of loose slabs and raveling respectively.

A follow-up inspection of the stability of each of the benches should be carried out after further excavation. This inspection can be conducted by Jeff Clarke, who is currently on site, or by Jeremy Kinch who will replace Jeff in October.

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We trust that this letter report satisfies your requirements. Please do not hesitate to contact us if you have any questions or concerns.

Yours truly,

KNIGHT PIÉSOLD LTD.



Dean R. Brox, P. Eng.

Senior Geotechnical Engineer

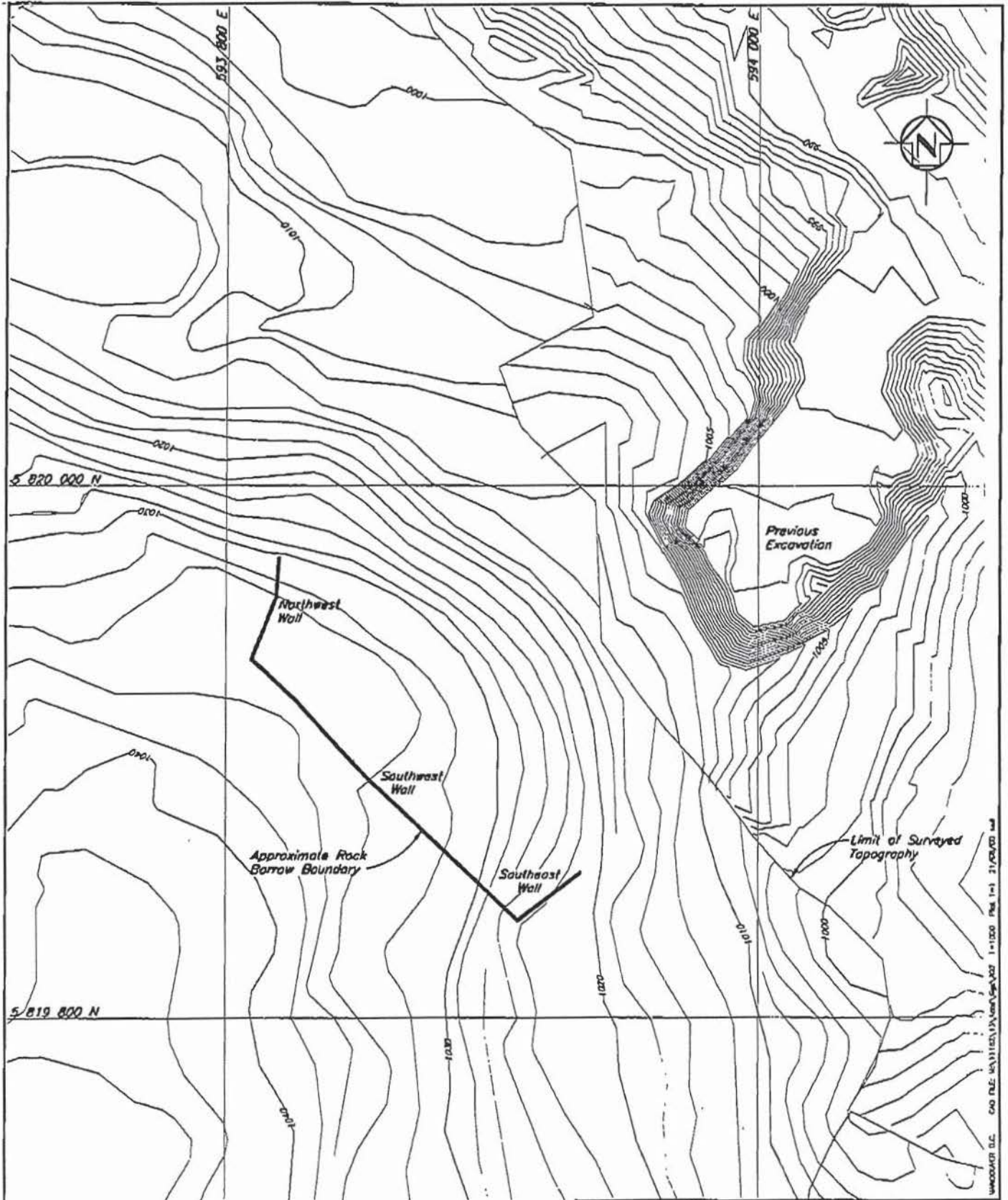
A handwritten signature in cursive script, appearing to read "Ken J. Brouwer".

Ken J. Brouwer, P. Eng.

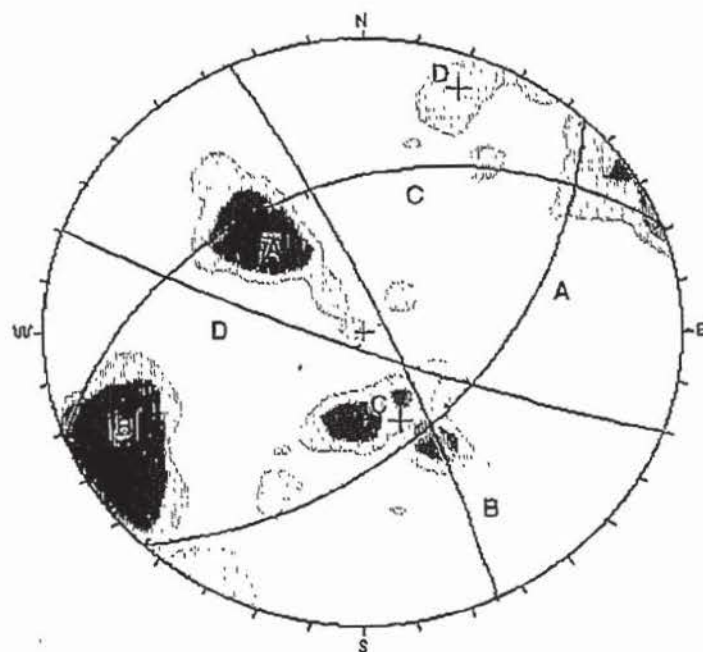
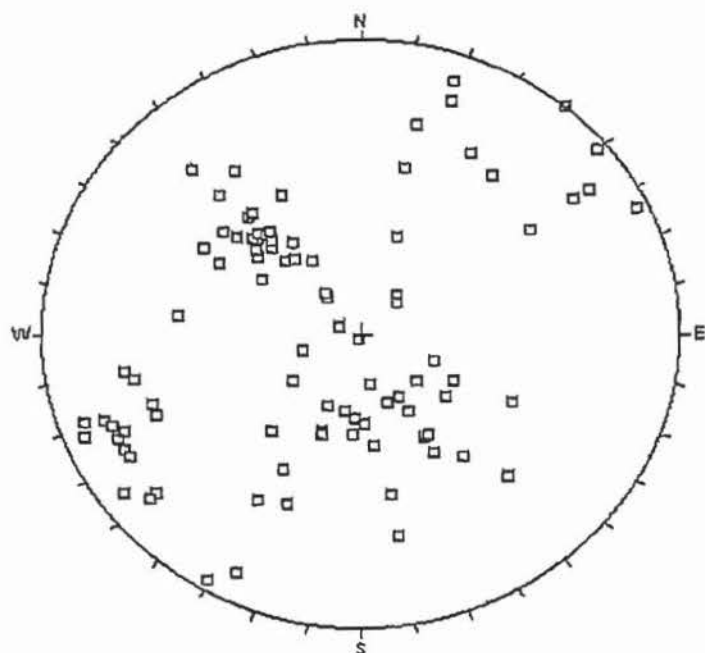
Principal

/jrk

Enclosures



MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
ROCK BORROW			
Knight Piésold		CONSULTING	
PROJECT NO. 11182/13	REV. NO. 8	REV. 0	
FIGURE 2.1			



Peak Joint Sets

Plane	Dip/Dip Direction
A	49 / 134
B	81 / 065
C	38 / 336
D	85 / 202

Equal Angle - Lower Hemisphere
 No Bias Correction
 94 Poles
 94 Entries
 All Structures

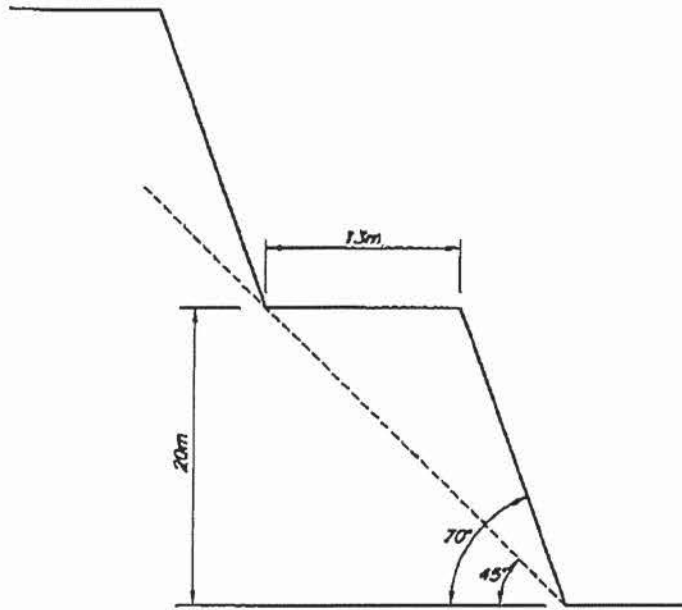
MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

ROCK BORROW
 MEASURED JOINT ORIENTATIONS
 AND CONTOURED STEREO NET

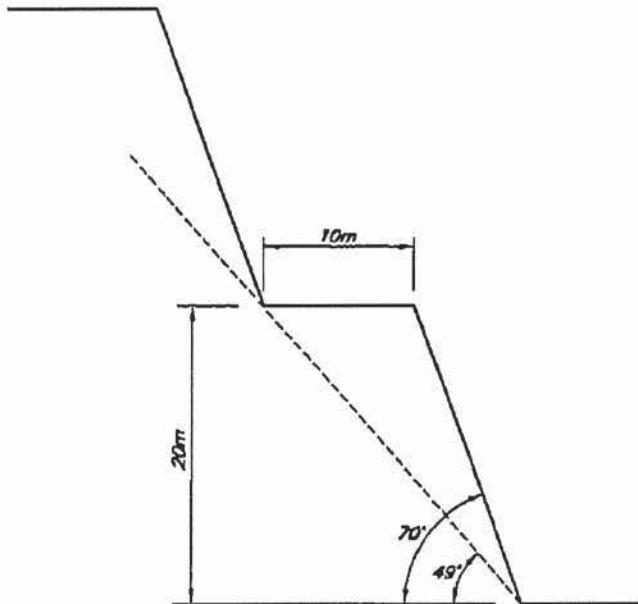
Knight Piésold

PROJECT NO. 11102/13	REF NO. 8	REV. 0
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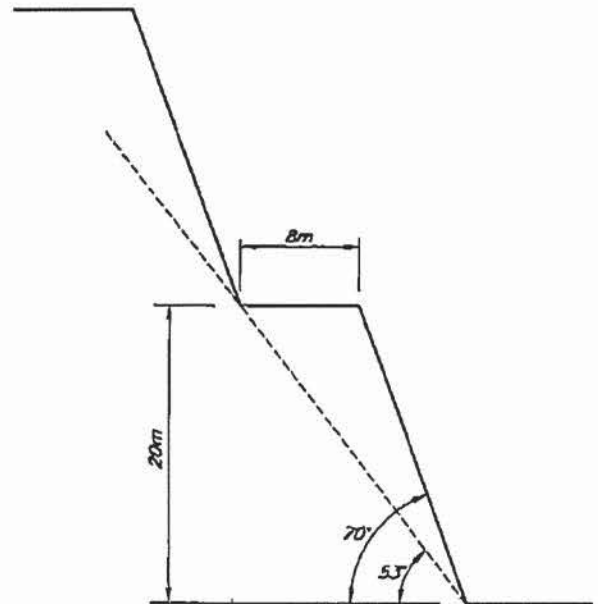


NOTE: Plane A dipping at 45° out of northwest wall may result in partial loss of berm.

NORTHWEST WALL



SOUTHWEST WALL



SOUTHEAST WALL

Scale 5 0 5 10 15 20 25 m

MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
ROCK BORROW STABILITY ASSESSMENT RECOMMENDED BENCH DESIGN			
Knight Piésold CONSULTING		PROJECT NO. 11162/13	REV. NO. 8
		FIGURE 5.1	

REV.	DATE	DESCRIPTION	DESIGNED	DRAWN	CHECKED	APPROVED
0	22/01/00	ISSUED FOR LETTER REPORT	JRK	N3D	YJB	KJA
REVISIONS						



Photograph 1: Northwest Wall. 70 degree bench face angle undercuts Joint Set A causing sliding and slabbing.

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Photograph 2: Southwest Wall. Joint Set B strikes sub-parallel to the wall and forms a back plane for small wedges.

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Photograph 3: Raveling typically occurs on Southwest Wall.

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Photograph 4: Southeast wall. Joint sets dip into the wall.

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DATE: Sept. 1, 2000 FILE NO.: 11162/13.F01.F05
TIME: REF NO.: 00-034
OPERATOR: PAGES: 1 of 26
SENDER: Jeff Clatko APPROVED:

TO: KP Vancouver FAX: (604) 685-0147
ATTN: Ken Brouwer / Jeremy Kinch
cc: George Headley, MEMND (250) 952-0481
Eric Leneve, Don Parsons, MPMC
SUBJECT: Mount Polley Stage 3 TSF Construction - Progress Report No. 4

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Form F-01

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT

TAILINGS STORAGE FACILITY
STAGE 3 CONSTRUCTION

PROGRESS REPORT NO. 4 – August 7 to September 1, 2000

SECTION 1.0 –GENERAL

Stage 3 construction has steadily progressed over the reporting period. Major activities have included placement of Zone C, T and F fill zones at the Main Embankment, and preparation work at the Perimeter and South Embankments.

1.1 PERSONNEL

Mount Polley Mining Corporation (MPMC) management personnel overseeing the Stage 3 contract are as follows:

Eric Leneve, Tailings Coordinator
Don Parsons, Mine Superintendent

The following Knight Piesold Ltd. (KP) representatives were on site during the reporting period:

Jeremy Kinch, Site Engineer – Left site August 14.
Jeff Clarke, Site Engineer – Arrived August 14.
Sarah Griffiths, Site Engineer – Arrived August 19 to monitor nightshift construction.

The following Tercon Contractors Ltd. (TCL) representatives were on site during the reporting period:

Doug Bain, Site Superintendent
Bill Soare, Dayshift Foreman
Tyrl Summers, Nightshift Foreman

Mr. George Headley of Ministry of Energy and Mines and Northern Development (MEMND) visited the site on August 17.

Mr. Ken Brouwer, Project Director for KP visited the site on August 31.

1.2 WEATHER

Weather conditions were generally sunny and warm up until August 17. Conditions have been variable since then, with mixed sun, clouds and rain. There were no weather related delays in the work.

1.3 DESIGN AND CONTRACT DEVELOPMENTS

1.3.1 Contract

TCL have indicated that the construction contract for the Main Embankment will be complete by about the end of September. In terms of total quantities, as shown on Table 2.1, the contract is currently about 70% complete.

TCL have requested payment for as-built quantities of Zone F material, on the basis that the irregular, stripped face of the embankment and difficulties with survey layout will lead to overbuild of this zone. They have also requested payment for foundation preparation on the embankment face. MPMC and KP have reviewed the contract information, and found that changes in payment for these items are not warranted.

TCL shut down nightshift rockfill placement on August 26. Dayshift rockfill placement shut down on August 30. Placement of the Zone T and C fills was proceeding at a faster rate than Zone F, which is being placed only on nightshift (the Zone F filter sand is being hauled from the mine by a subcontractor, Lake Excavating Ltd. of Williams Lake). The purpose of the shutdown is to allow for advancement of the Zone F fill ahead of the rockfill, as well as to provide a break for the TCL crew. TCL will maintain a skeleton crew on site for spreading and compacting the Zone F fill during the shutdown. Full production will resume again on September 7.

TCL has expressed concern over the haul route from the rock borrow (Zone T road) which will be affected by construction activities at the Perimeter Embankment. MPMC will inform

TCL of the scheduling for the Perimeter Embankment construction as it is finalized (see Below).

1.3.2 Design

MPMC and KP are currently re-reviewing the scheduling requirements for construction of the Perimeter Embankment. MPMC have updated the Tailings Facility water balance, and have provided the information to KP Vancouver for review in conjunction with the filling schedule.

During his visit to site, Mr. Headley inquired about placement of Zone C rockfill directly against the Main Embankment glacial till below elevation 928.5 m. His concern was related to filter relationships in this area. KP will issue a letter addressing this concern.

At the request of MPMC, KP have mapped exposed walls in the rock borrow and carried out a stability assessment and design. The results of this work have been provided in a letter report to MPMC dated August 22.

There were no design changes over this period.

1.4 TAILINGS FACILITY OPERATION AND MAINTENANCE

Tailings discharge into the facility continued from the Main Embankment until August 18, when MPMC moved discharge to the middle of the Perimeter Embankment due to the line sanding up. Tailings beach is currently exposed upstream all along the Perimeter Embankment and along the Main Embankment west to Ch. 18+50. From 18+50 to the right abutment the pond is against the embankment. The tailings line has subsequently been removed from the crest of the Main Embankment in preparation for construction.

MPMC is currently working on setting up the Linatex separators for installation and subsequent cycloning along the Perimeter Embankment.

The recent rainfall has caused rising water levels in the Seepage Collection Ponds below both embankments. MPMC is currently pumping from the Perimeter Embankment Collection Pond, and is planning to pump from the Main Embankment Pond during the TCL shutdown.

1.5 SAFETY

No safety incidents were reported for the period.

MPMC have completed construction of safety berms along haul routes.

In response to recommendations from the Mines Inspector, Tercon has installed single lane traffic signs on the access road from the rock borrow.

MPMC is working with an excavator to slope back the top of the rock borrow, and is planning on scaling the walls.

TCL have completed spindle checks on the three rental haul trucks. All of the trucks passed inspection.

SECTION 2.0 – CONSTRUCTION ACTIVITIES

2.1 EQUIPMENT

TCL has used the following equipment to carry out work over this period:

- Excavators – 1 Hitachi EX1100, 1 Cat 375, 1 Cat 322B
- Haul trucks - 7 Cat 773's (3 rentals)
- Dozers – 1 Cat D8R, 1 Cat D8N (rental), 1 Cat D6D
- Graders – 1 Cat 16G
- Compactors – 1 Cat CS583, 1 Cat CS563 (rental)
- Water truck, service trucks, fuel trucks, forklift

The Hitachi EX1100 was put into service in the rock borrow on August 12, replacing the Cat 375 and increasing rockfill production rates.

2.2 ACTIVITIES

The major construction activities for the reporting period are summarized below. Dayshift and nightshift crews have been in operation. A summary of the contract quantities completed over this period and to date are provided on Table 2.1.

Main Embankment (TCL)

- Zone C rockfill Placement – the Main Embankment downstream buttress was completed on August 10, and Zone C placement subsequently began up the embankment face. The elevation of the rockfill is currently between El. 930 to 935 m. Placement of the rockfill is typically at a rate of about 3,500 to 5,000 m³ per shift.
- Stripping of Main Embankment Face – the downstream face was stripped above El. 929.0 m to remove unsuitable, loose material in preparation for Zone F placement. A total of about 20,000 m³ was removed and hauled to the spoil area near Borrow No.2.
- Zone F filter sand placement – Zone F placement commenced on August 17. The material is being hauled down from the mill site on nightshift by a subcontractor, Lake Excavating Ltd. of Williams Lake, and stockpiled along the dam. TCL is placing the material by pushing it upslope as far as practicable in two 0.5 m lifts. Each lift is compacted by multiple passes of a vibratory compactor. Zone F is extended further upslope as the adjacent Zone T and C rockfills are raised. Approximately 1000 m³ is being placed per shift.
- Zone T rockfill placement – Zone T is being placed adjacent to Zone F, and comprises the finer material from the rock borrow. It is typically being placed by pushing it upslope a short distance (6 m), and is compacted using the vibratory compactor and by routing the haul trucks over it as the adjacent Zone C is raised (Zone C is placed parallel to the dam axis).

South Embankment (TCL)

- Foundation Excavation – stripping of the embankment footprint continued until August 10. Some work is still required in this area.

Perimeter Embankment (MPMC)

- The entire downstream face of the embankment has been stripped to remove unsuitable, loose and wet material in preparation for construction. The material has been hauled to the waste dump adjacent to the Polley Lake Pipeline road.

Rock Borrow

- TCL is carrying out ongoing drilling and blasting in the borrow.
- MPMC have pulled back the tops of the slopes in the rock borrow. Scaling of the walls is still required.

Miscellaneous

- A wet area was noted in the Stage 2A Zone T haul road at the downstream toe of the Main Embankment right abutment (Ch. 15+86) near the Upstream Toe Drain Outlet Pipe. Upon excavation, it was found that the water is emerging from the volcanic bedrock foundation. To allow for collection and drainage of the water, Foundation Drain FD-5 was exposed and the drain was extended into this area. MPMC has obtained a sample of the seepage water for analysis.

SECTION 3.0 – KNIGHT PIESOLD ACTIVITIES

3.1 GENERAL

KP site activities over the reporting period have included the following:

- Inspection and documentation of construction activities.
- QA/QC collection and testing of Zone F control samples, and Zone F, T and C record samples.
- Structural mapping of rock borrow.
- Supervision of drilling and installation of groundwater monitoring wells.
- Extension of piezometer leads through Stage 3 fill zones.
- Ongoing discussions and correspondence with MPMC and KP Vancouver.
- Preparation of daily inspection reports and bi-weekly Progress Reports.
- Collection and review of embankment monitoring data.

3.2 LABORATORY TESTING

The following samples were collected and tested over the reporting period:

- Zone T record samples R/ZT-3-5 to 6
- Zone C record samples R/ZC-3-2 to 3
- Zone F control samples C/ZF-3-6 to 8
- Zone F record samples R/ZF-1 to 9

The results of the testing are provided on the summary Tables 3.1 to 3.4 and gradation plots Figures 3.1 to 3.4.

The results show that all of the Zone C and Zone T samples meet the specifications for particle size distribution.

Results for some of the Zone F control samples have fallen marginally below the bottom of the specified coarse limit. The Zone F record samples fit within the gradation envelope, however, indicating some breaking down of the material during handling, placement and compaction such that it meets the desired specifications. The exception is sample R/ZF-3-7. A re-check of this sample will be carried out.

SECTION 4.0 – EMBANKMENT MONITORING

Monitoring of tailings embankment instrumentation over the reporting period indicates that the embankment is performing well within design tolerances.

Groundwater monitoring wells GW00-1 to 3 were installed between August 28 and September 1. The drill contractor was Geotech Drilling Ltd. of Prince George. Two wells were installed at each location; a shallow well in the overburden deposits and a deeper well extending 30 to 40 ft into the underlying volcanic bedrock. The deep wells extend to between 70 and 80 ft depth, and the shallow wells to between 35 and 40 ft depth. The wells consist of 2" PVC pipe. MPMC will obtain baseline water quality data from the wells and incorporate them into the groundwater monitoring program.

4.1 VIBRATING WIRE PIEZOMETERS

No new piezometers were installed over the reporting period. Piezometer leads have been extended as necessary through the advancing Stage 3 fills.

The most recent piezometer readings were obtained on August 23. The results of the monitoring are shown on Figures 4.1 to 4.5, and are summarized below. Locations of the piezometers are shown on the attached drawings.

Foundation Piezometers

Most of the Main Embankment foundation piezometers have shown slight increases in pore water pressure as a result of fill placement.

- Plane A: Largest increase of 1.13 m at A2-PE2-08 (Below Zone C rockfill). All other piezometers show increases of less than 0.3 m.
- Plane B: Largest increase of 0.60 m at B2-PE2-06 (Below Zone C rockfill). All other piezometers show increases of less than 0.5 m.
- Plane C: Largest increase of 0.44 m at C2-PE2-02 (Below Stage 1 embankment). All other piezometers show increases of less than 0.4 m.
- Plane E: Largest increase of 0.22 m at E2-PE2-02.

No changes were noted in the Perimeter Embankment (Plane D) foundation piezometers.

Fill Piezometers

Fill piezometers generally remained static or showed slight increases (less than 0.3 m) in the glacial till. The exception was an increase of 0.56 m at B2-PE2-05 (in glacial till below the Stage 3 rockfill).

Drain Piezometers

All drain piezometers have remained static and at a very low head indicating that the drains are free-draining and functioning as designed.

Tailings Piezometers

Water levels at the tailings piezometers continue to mimic the pond level.

4.2 DRAIN FLOWS

Drain outlets in the Main Embankment Seepage Collection Pond drain sump have been submerged due to the rising water level in the pond. Monitoring of the flows will resume once MPMC pumps down the pond during the TCL shutdown.

SECTION 5.0 – ONGOING ITEMS

The following items will be addressed during upcoming reporting periods:

- MPMC continues to focus on difficulties with the tailings discharge line in terms of depositing along the west portion of the Main Embankment. Repairs to the line above the T2 dropbox are scheduled and may help eliminate this problem.
- MPMC is planning for removal of the Polley Lake Pipeline from within the Perimeter Embankment crest (at El. 940 m) as part of the Stage 3 work.

Submitted by:



Jeff Clarke
Knight Piesold Ltd.

Distribution: Eric Leneve, Don Parsons – MPMC
George Headley – MEMND
Ken Brouwer – KP Vancouver

TABLE 2.1

MOUNT POLLEY MINE TAILINGS STORAGE FACILITY
STAGE 3 CONSTRUCTION

SUMMARY OF CONTRACT QUANTITIES - To August 27, 2000

C:\Mtl Polley - Stage 3\Progress Reports\Table 2.1 - Quantities.xls\Sheet1

1-Sep-00

Material / Item	Quantity Over Reporting Period		Quantity to Date		Contract Quantity		Percent Complete (%)
Removal of Topsoil/Unsuitable Foundation Material	0	m ³	46,528	m ³	45,000	m ³	100.0
Removal of Unsuitable from Embankment Slopes	14,820	m ³	20,020	m ³	11,000	m ³	100.0
Supply and Place Zone T and C	148,706	m ³	272,090	m ³	399,000	m ³	68.2
Supply and Place Zone F	13,500	m ³	13,500	m ³	27000	m ³	50.0
Supply and Place Zone S	0	m ³	0	m ³	37000	m ³	0.0
Totals			352,138	m ³	519,000	m ³	67.8

Notes:

1. Volumes are based on both survey information and load counts.
2. Volumes for Zone F are assumed based on an estimated placement rate of 1,000 m³ per shift.

TABLE 3.1

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY

STAGE 3 CONSTRUCTION
ZONE T RECORD TESTS - SUMMARY SHEET

C:\Mt. Polley - Stage 3\Lab Testing\Zone T\Zone T Summary.xls\Record Summary

Date Printed 30-Aug-00

Date Sampled	Sample No.	Location	C3 (Particle Size Distribution)			
			Cobbles %	Gravel %	Sand %	Silt/Clay %
			> 3 inch	3 inch to #4	#4 to #200	< #200
3-Jun-00	R/ZT-3-1	Zone T Fill	20.0	61.5	15.7	2.8
16-Jul-00	R/ZT-3-2	Zone T Fill	20.0	58.7	16.2	5.1
25-Jul-00	R/ZT-3-3	Zone T Fill	13.9	66.1	18.4	1.6
27-Jul-00	R/ZT-3-4	Zone T Fill	22.0	65.0	12.5	0.5
22-Aug-00	R/ZT-3-5	Zone T Fill, Chainage: 23+00, Elevation: 929	37.2	36.1	24.9	1.8
20-Aug-00	R/ZT-3-6	Zone T Fill, Chainage: 19+50, Elevation: 929	34.5	40.0	24.0	1.5
		MEAN	24.6	54.6	18.6	2.2
		MEDIAN	21.0	60.1	17.3	1.7
		MAXIMUM	37.2	66.1	24.9	5.1
		MINIMUM	13.9	36.1	12.5	0.5

Notes:

- 1) C3 (Particle Size Distribution) - ASTM D422

Revised On: August 28, 2000
Revision 0

TABLE 3.2

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY

STAGE 3 CONSTRUCTION
ZONE C RECORD TESTS - SUMMARY SHEET

C:\Mt. Polley - Stage 3\Lab Testing\Zone C\Zone C Summary.xls\Record Summary

Date Printed

30-Aug-00

Date Sampled	Sample No.	Location	C3 (Particle Size Distribution)			
			Cobbles	Gravel	Sand	Silt/Clay
			% > 3 inch	% 3 inch to #4	% #4 to #200	% < #200
2-Aug-00	R/ZC-3-1	Zone C Fill	56.4	34.7	8.4	0.5
21-Aug-00	R/ZC-3-2	Zone C Fill, Chainage: 22+55, Elevation 928.3	50.6	36.3	12.8	0.3
24-Aug-00	R/ZC-3-3	Zone C Fill, Chainage: 22+40, Elevation 929m	48.6	35.5	15.3	0.5
MEAN			51.9	35.5	12.2	0.4
MEDIAN			50.6	35.5	12.8	0.5
MAXIMUM			56.4	36.3	15.3	0.5
MINIMUM			48.6	34.7	8.4	0.3

Notes:

1) C3 (Particle Size Distribution) - ASTM D422

Revised On: August 28, 2000

Revision 0

TABLE 3.3

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY

STAGE 3 CONSTRUCTION
ZONE F CONTROL TESTS - SUMMARY SHEET

C:\Mt. Polley - Stage 3\Lab Testing\Zone F\Zone F Summary.xls]Control Summary

Date Printed 30-Aug-00

Date Sampled	Sample No.	Location	C3 (Particle Size Distribution)			
			Cobbles %	Gravel %	Sand %	Silt/Clay %
			> 3 inch	3 inch to #4	#4 to #200	< #200
17-Jul-00	C/ZF-3-1	Conveyor	0.0	64.2	32.9	2.9
19-Jul-00	C/ZF-3-2	Stockpile	0.0	50.9	45.4	3.7
19-Jul-00	C/ZF-3-3	Conveyor	0.0	61.4	36.2	2.4
20-Jul-00	C/ZF-3-4	Stockpile	0.0	49.9	47.0	3.1
1-Aug-00	C/ZF-3-5	Stockpile	0.0	61.0	38.0	1.0
25-Aug-00	C/ZF-3-6	Conveyor	0.0	60.5	38.0	1.5
25-Aug-00	C/ZF-3-7	Stockpile	0.0	70.2	27.7	2.1
25-Aug-00	C/ZF-3-8	Stockpile	0.0	46.7	51.0	2.3
MEAN			0.0	58.1	39.5	2.4
MEDIAN			0.0	60.8	38.0	2.4
MAXIMUM			0.0	70.2	51.0	3.7
MINIMUM			0.0	46.7	27.7	1.0

Notes:

1) C3 (Particle Size Distribution) - ASTM D422

Revised On: August 28, 2000
Revision 0

TABLE 3.4

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY

STAGE 3 CONSTRUCTION
ZONE F RECORD TESTS - SUMMARY SHEET

C:\Mt. Polley - Stage 3\Lab Testing\Zone F\Zone F Summary.xls\Record Summary

Date Printed 30-Aug-00

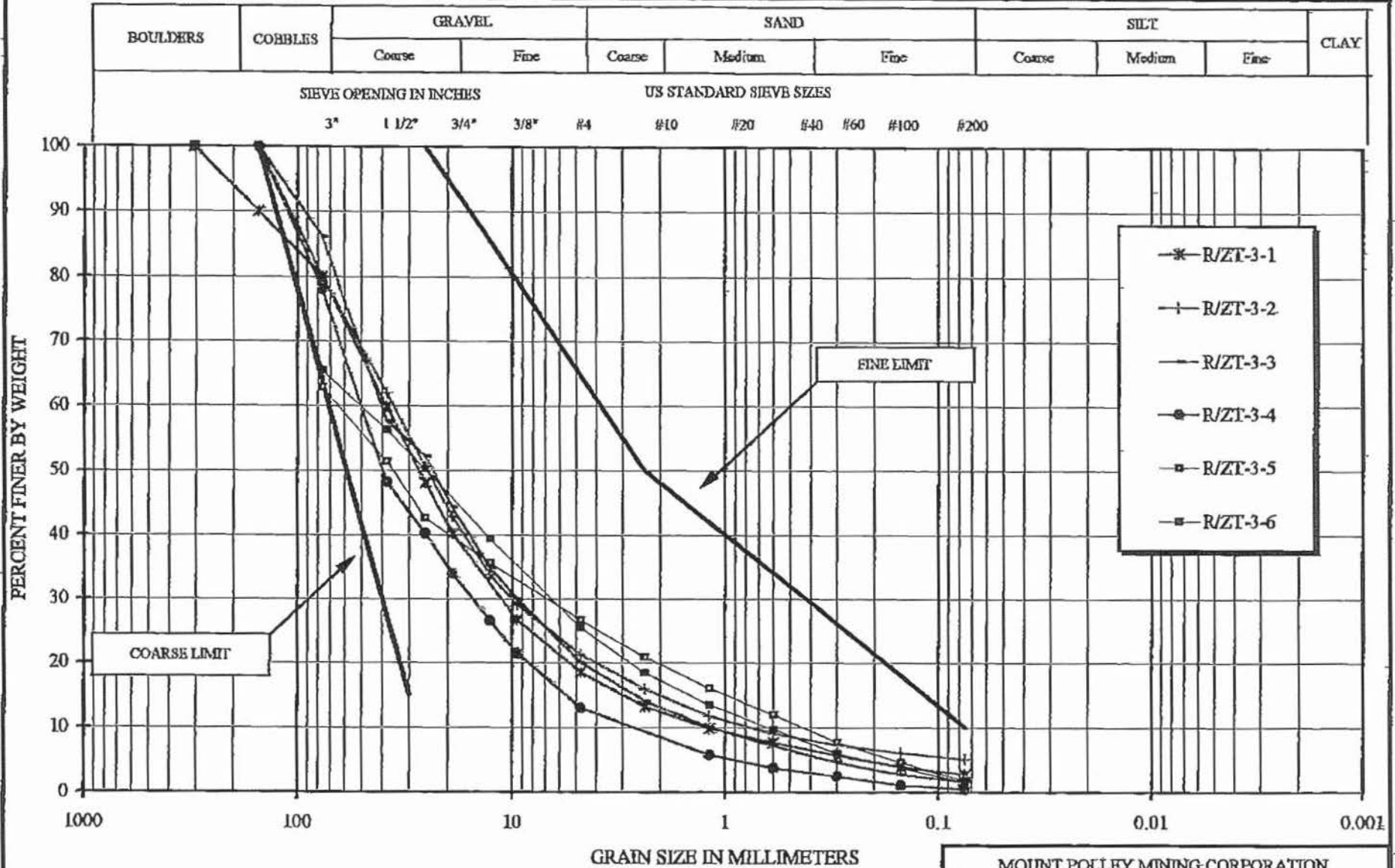
Date Sampled	Sample No.	Location	Chainage	Elevation	C3 (Particle Size Distribution)			
					Cobbles	Gravel	Sand	Silt/Clay
					% > 3 inch	% 3 inch to #4	% #4 to #200	% < #200
19-Aug-00	R/ZF-3-1	Zone F Fill	26+10	935 m	0.0	48.2	48.7	3.1
20-Aug-00	R/ZF-3-2	Zone F Fill	17+10	935 m	0.0	50.0	45.8	4.2
21-Aug-00	R/ZF-3-3	Zone F Fill	20+00	933 m	0.0	53.4	43.6	3.0
23-Aug-00	R/ZF-3-4	Zone F Fill	20+05	935 m	0.0	46.3	50.4	3.3
24-Aug-00	R/ZF-3-5	Zone F Fill	25+50	935 m	0.0	57.9	39.0	3.1
26-Aug-00	R/ZF-3-6	Zone F Fill	19+00	935 m	0.0	52.2	44.1	3.7
26-Aug-00	R/ZF-3-7	Zone F Fill	21+60	935 m	0.0	53.6	45.7	0.7
27-Aug-00	R/ZF-3-8	Zone F Fill	22+00	935 m	0.0	58.0	39.6	2.4
28-Aug-00	R/ZF-3-9	Zone F Fill	24+50	937m	0.0	54.5	41.7	3.8
MEAN					0.0	52.7	44.3	3.0
MEDIAN					0.0	53.4	44.1	3.1
MAXIMUM					0.0	58.0	50.4	4.2
MINIMUM					0.0	46.3	39.0	0.7

Notes:

1) C3 (Particle Size Distribution) - ASTM D422

Revised On: August 28, 2000

Revision 0



MOUNT POLLEY MINING CORPORATION

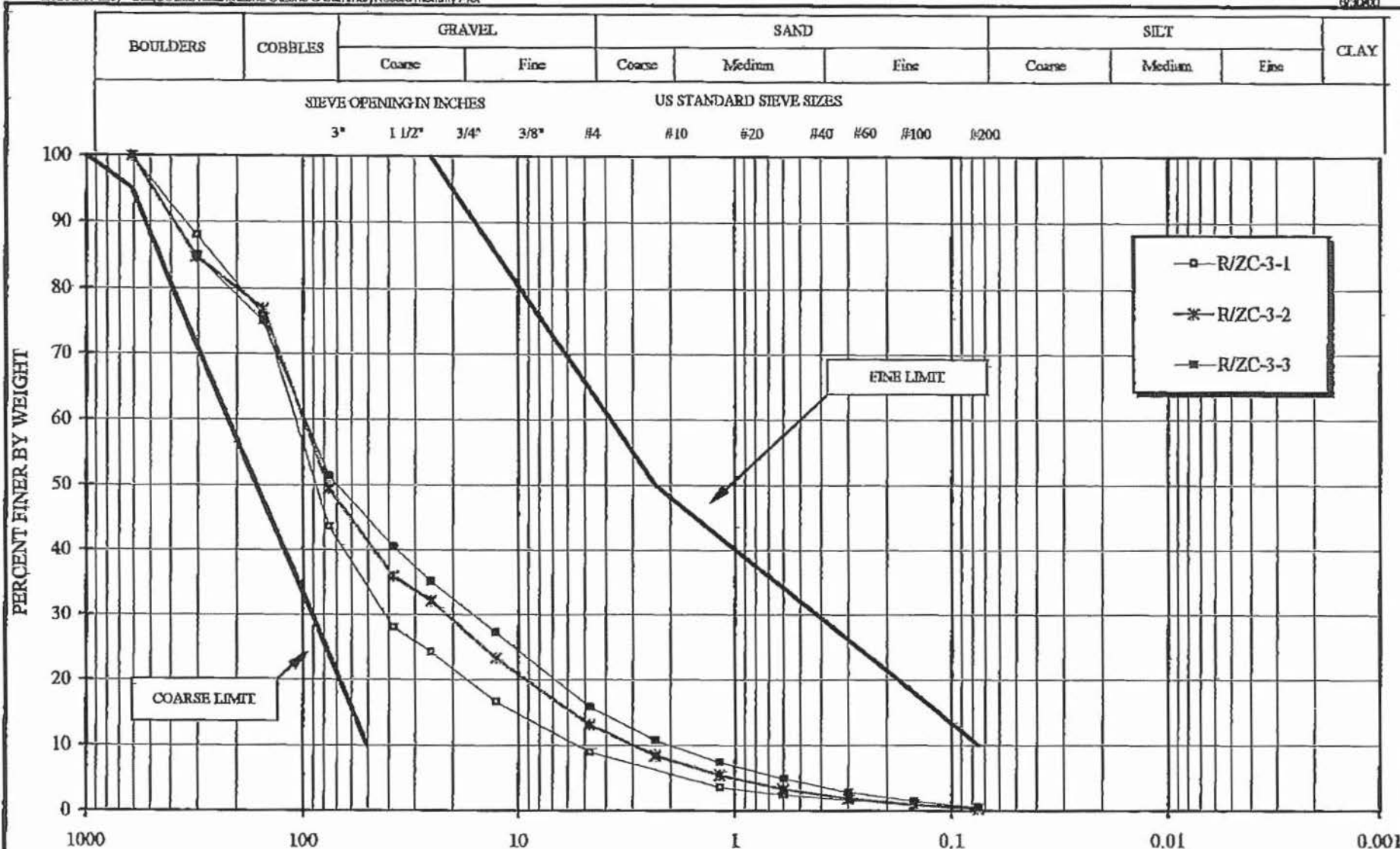
MOUNT POLLEY MINE

STAGE 3 CONSTRUCTION
ZONE T - RECORD SAMPLES
GRADATION SUMMARY

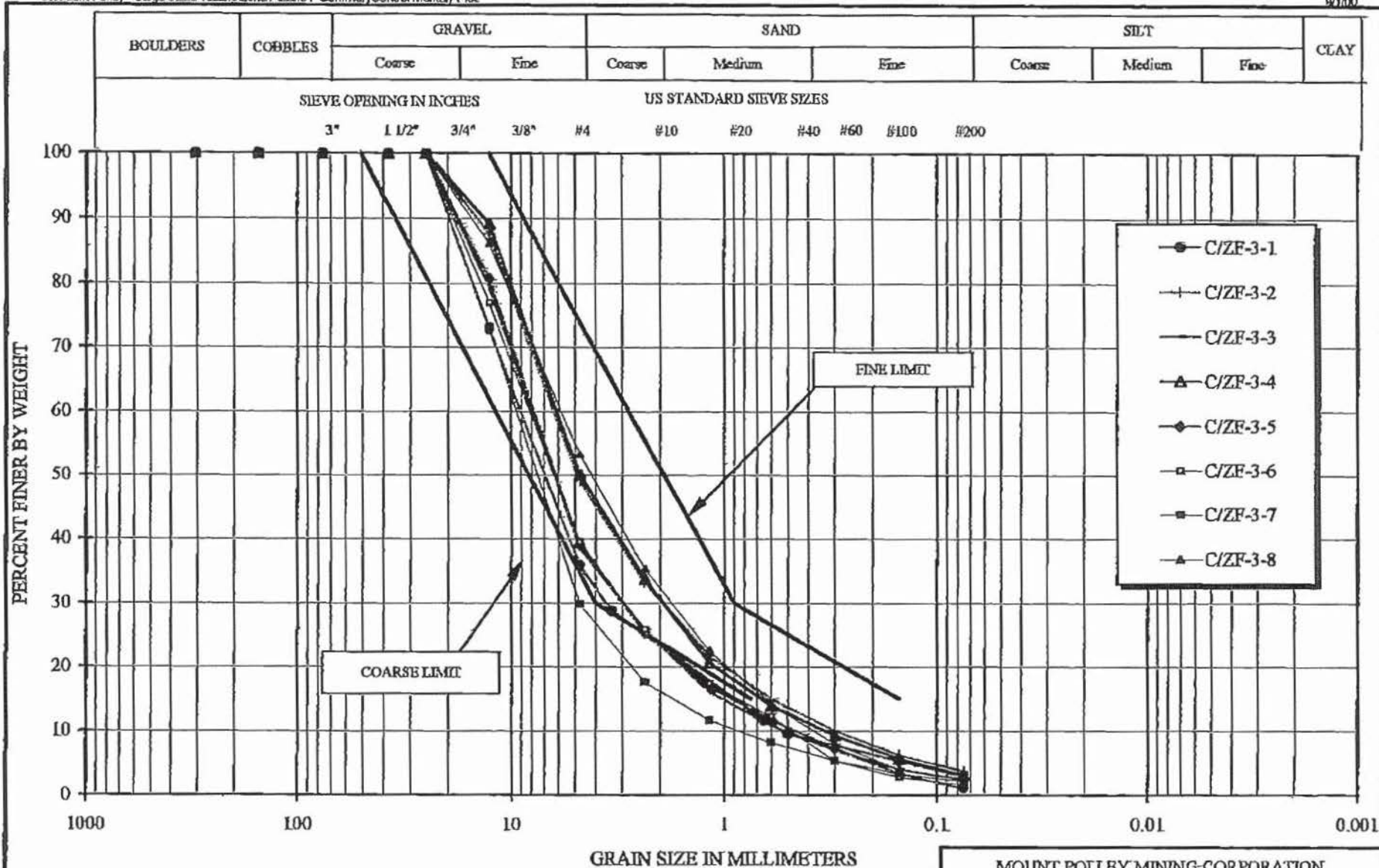
Knight Piésold
CONSULTING

PROJECT NO.	REV. NO.	REV.
11162/13		0

FIGURE 3.1



MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
STAGE 3 CONSTRUCTION		
ZONE C - RECORD SAMPLES		
GRADATION SUMMARY		
Knight Piésold CONSULTING	PROJECT NO. 11162/13	REV. NO. 0
FIGURE 3.2		



MOUNT POLLEY MINING CORPORATION

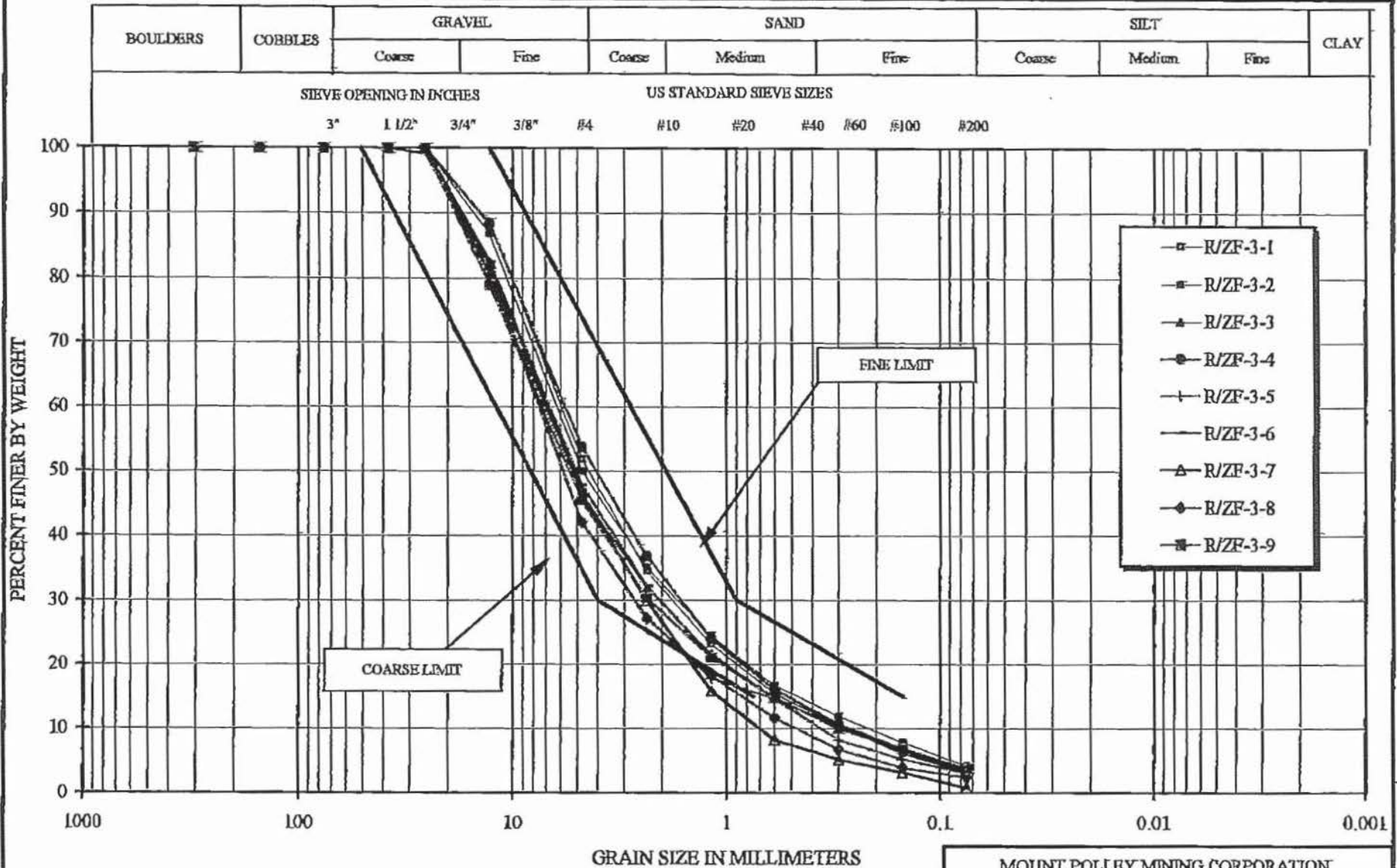
MOUNT POLLEY MINE

STAGE 3 CONSTRUCTION
 ZONE F - CONTROL SAMPLES
 GRADATION SUMMARY

Knight Piésold
 CONSULTING

PROJECT NO.	REV. NO.	REV.
11162/13		0

FIGURE 3.3



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

STAGE 3 CONSTRUCTION
ZONE F - RECORD SAMPLES
GRADATION SUMMARY

Knight Piésold
CONSULTING

PROJECT NO.	REV. NO.	REV.
11162/13		0

FIGURE 3.4

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE A PIEZOMETERS

--- Pond Level	— Fill Elevation	*— A0-PE2-01	--- A0-PE2-02
--- A1-PE1-01	— A1-PE1-02	— A1-PE1-03	— A2-PE1-01
— A2-PE2-01	— A2-PE2-02	— A2-PE2-03	*— A2-PE2-05
— A2-PE2-06	— A2-PE2-07	— A2-PE2-08	— A1-PE1-04
— A2-PE1-02	— A0-PE1-01	— A2-PE1-03	

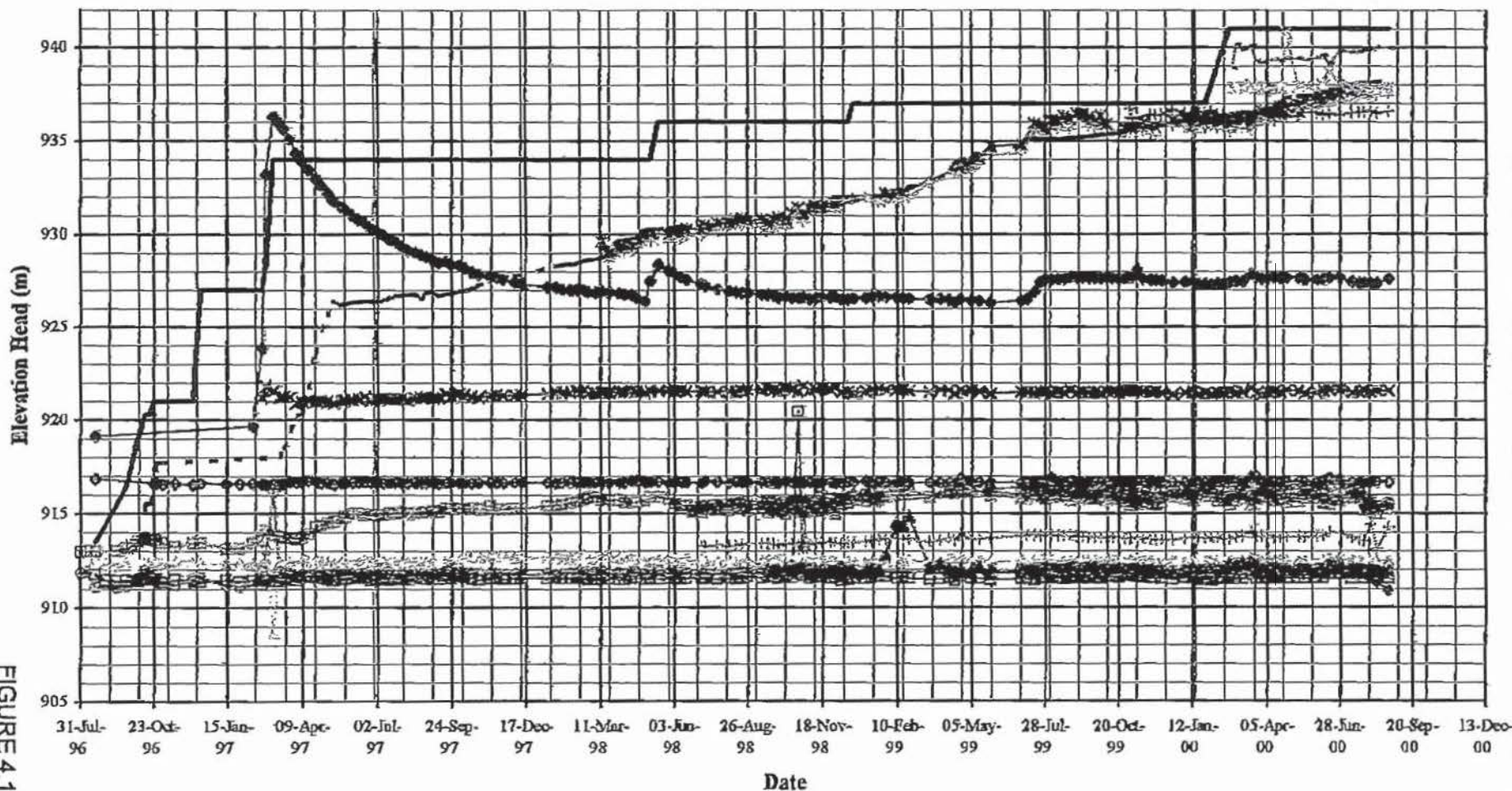


FIGURE 4.1

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE B PIEZOMETERS

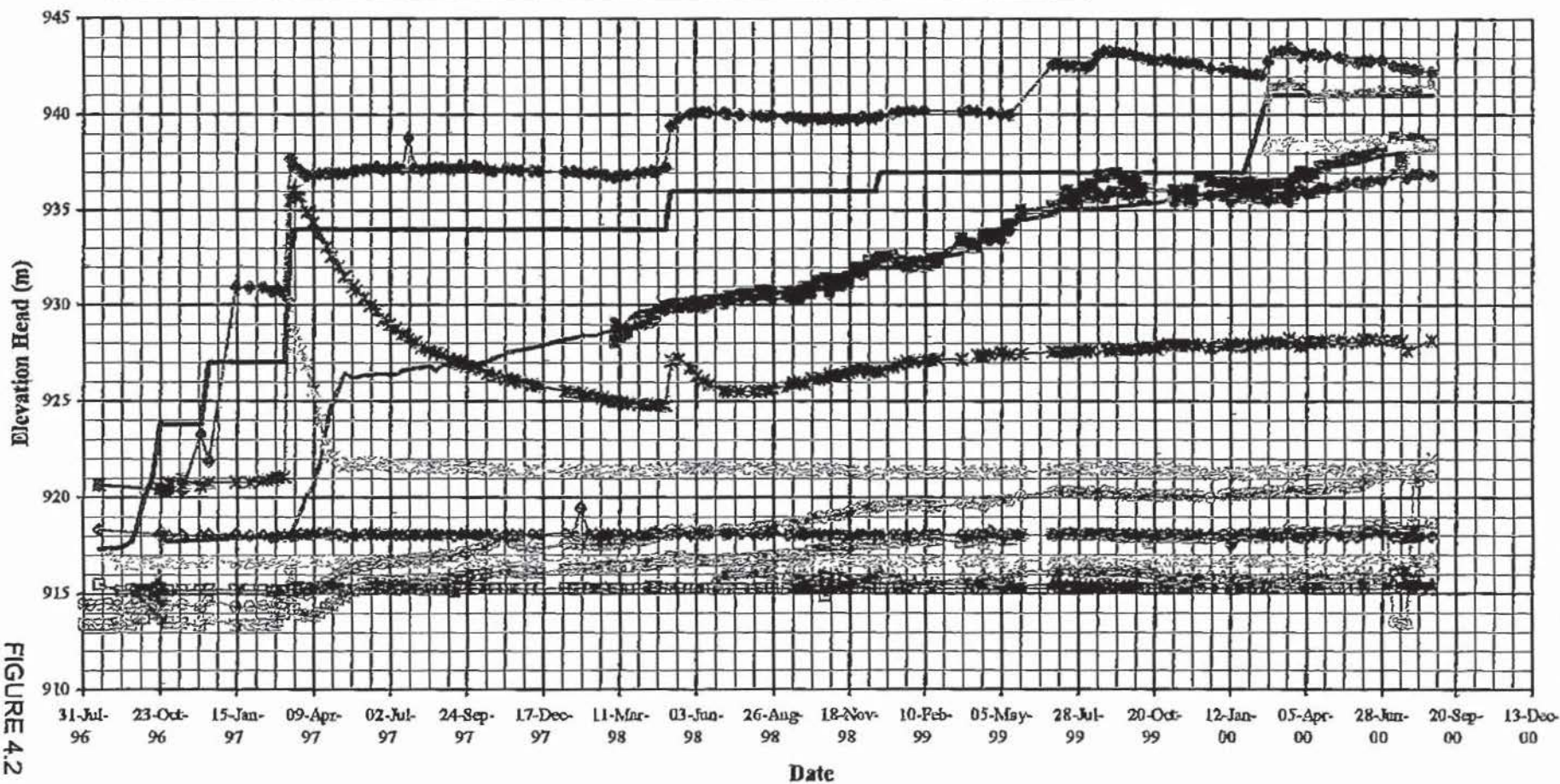
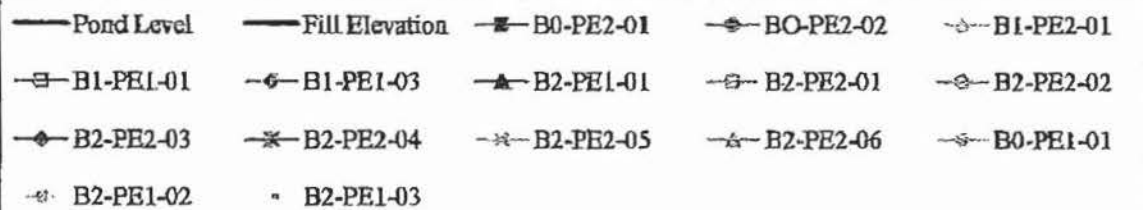


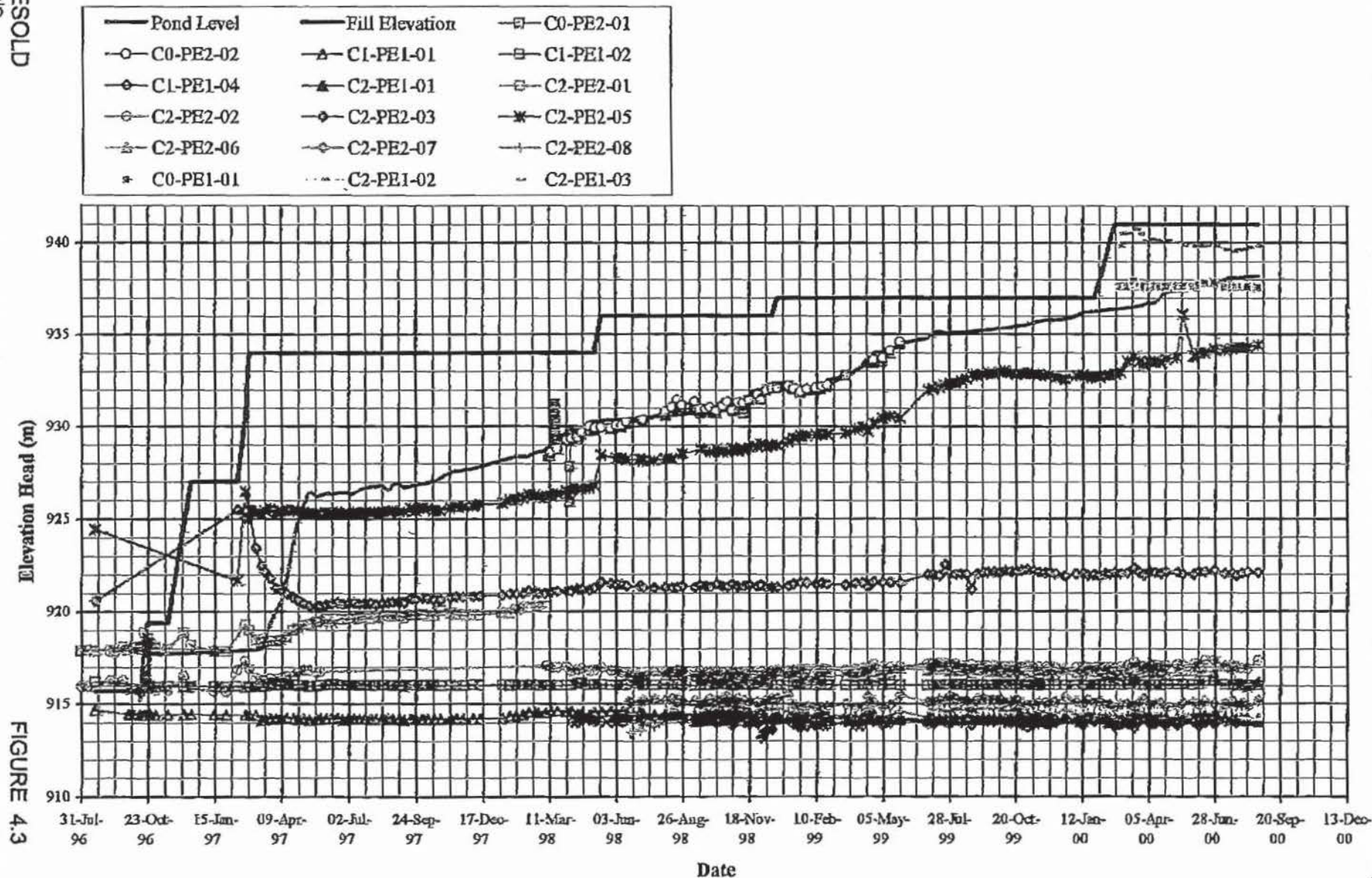
FIGURE 4.2

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE C PIEZOMETERS

KNIGHT PIESOLD
CONSULTING

250 790 2268 PAGE.022

02:21 00, 10 35



MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE D PIEZOMETERS

KNIGHT PIESOLD
CONSULTING

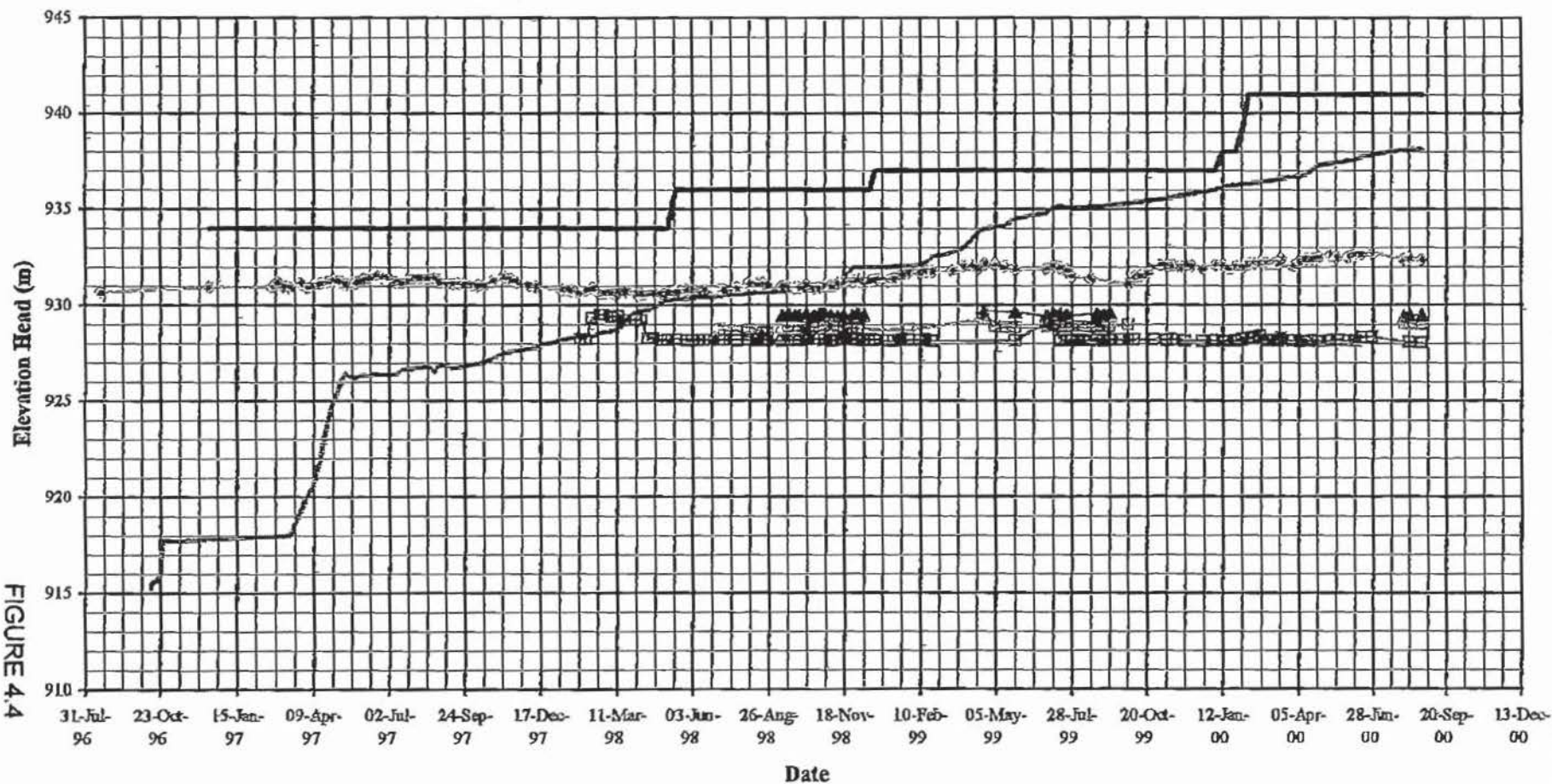
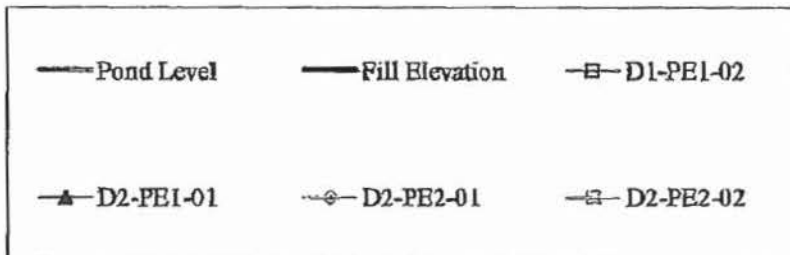
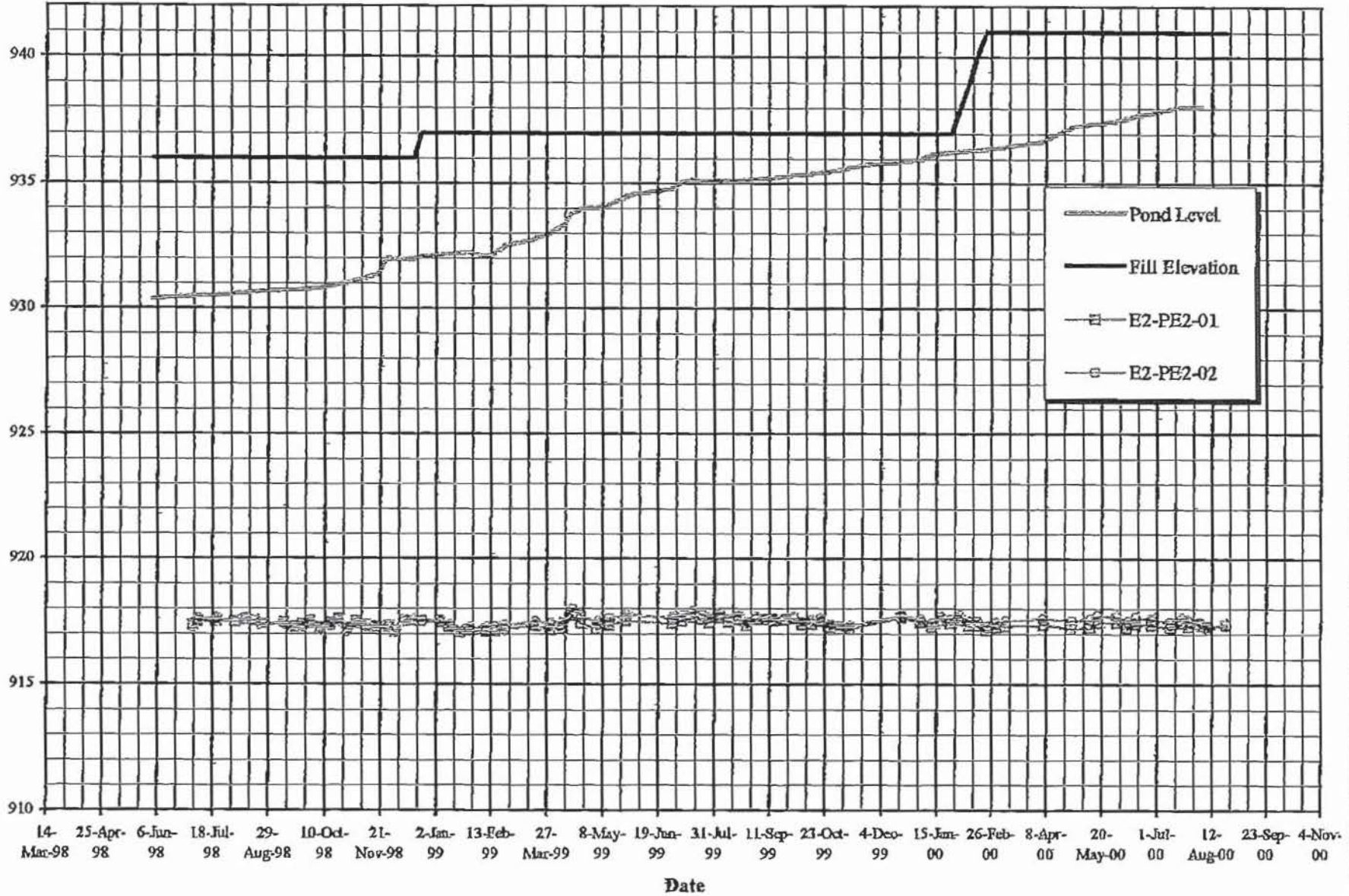


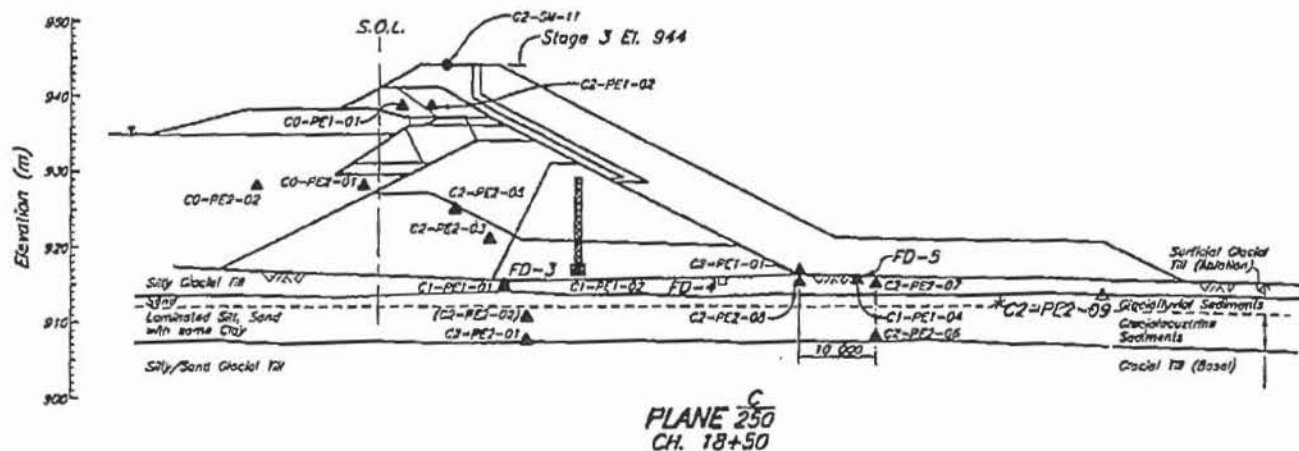
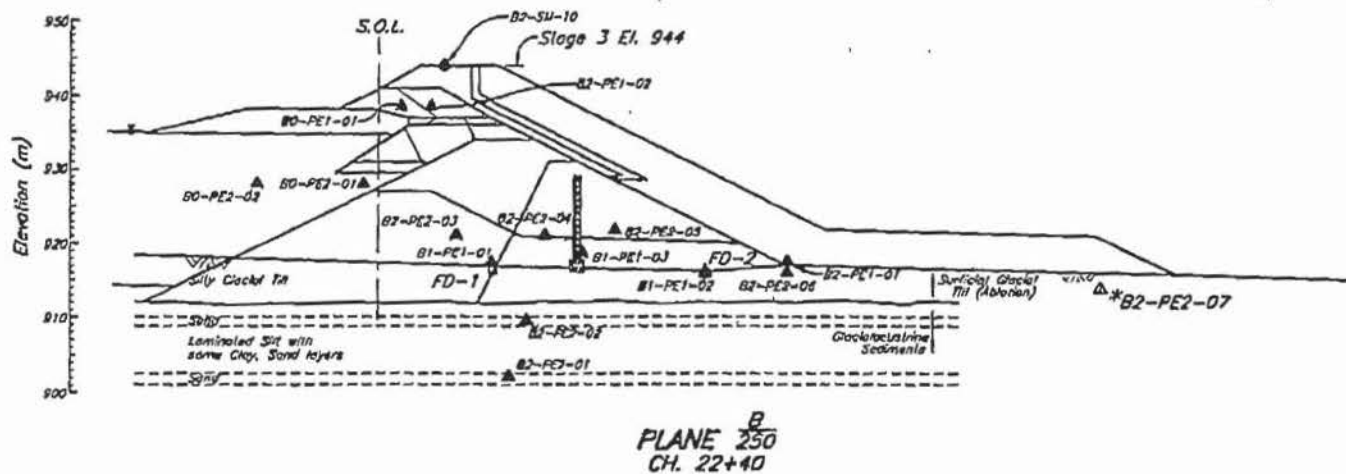
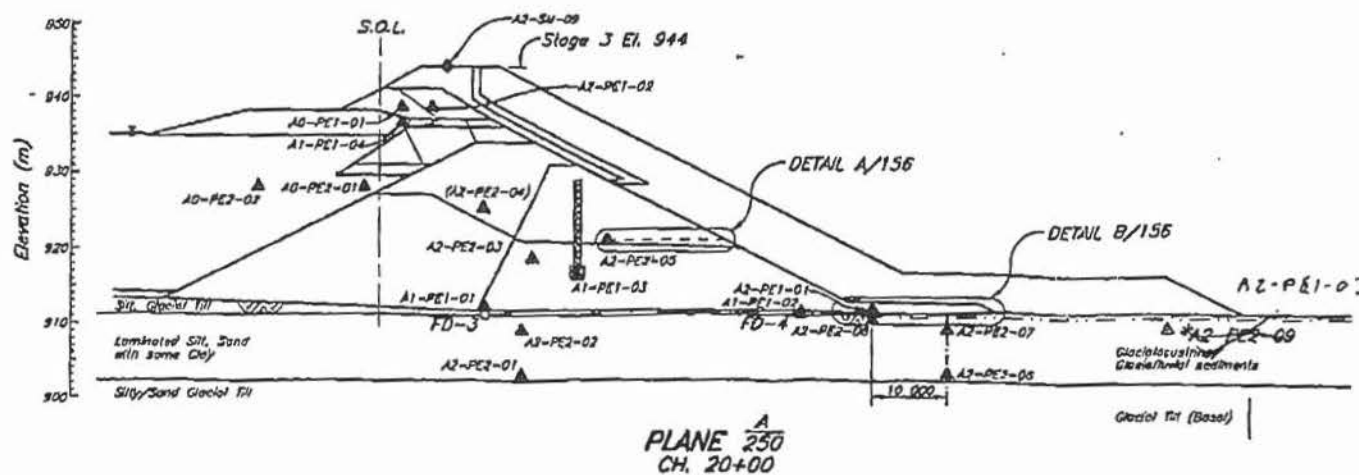
FIGURE 4.4

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE E PIEZOMETERS

Elevation Head (m)

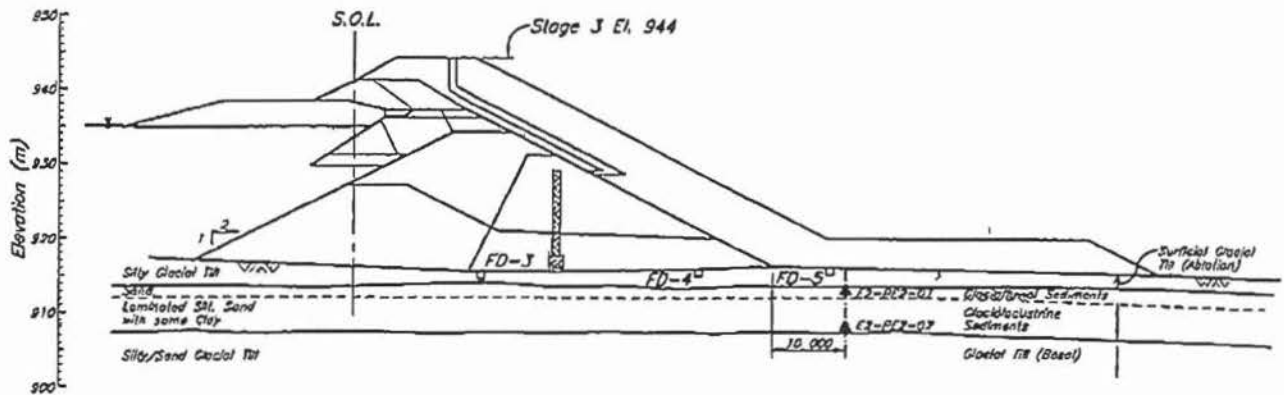


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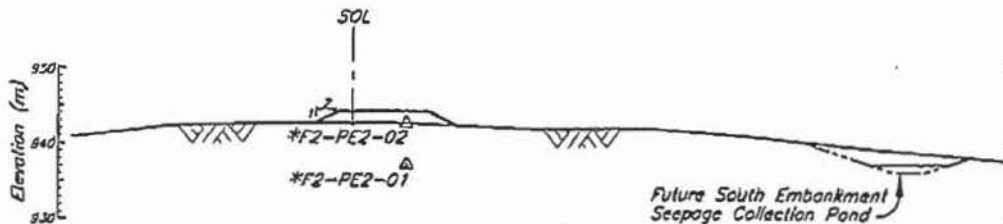


- INSTRUMENTATION - SECTIONS 2 OF 2
- INSTRUMENTATION - SUMMARY OF INSTALLATION & TYP. DETAILS
- INSTRUMENTATION - PLAN

- INSTRUMENTATION - PLAN										0 2 JUN 00 ISSUED FOR CONSTRUCTION			
DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK'D	APP'D	REV.	DATE	DESCRIPTION			
INCE DRAWINGS				REVISIONS						REVISIONS			



PLANE $\frac{F}{250}$
CH. 17+60



PLANE $\frac{F}{254}$
CH. 7+19

256	TSF - STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION SUMMARY OF INSTALLATION & TYPICAL DETAILS
254	TSF - STAGE 3 TAILINGS EMBANKMENT - SOUTH EMBANKMENT - INSTRUMENTATION PLAN
250	TSF - STAGE 3 TAILINGS EMBANKMENT - MAIN EMBANKMENT - INSTRUMENTATION PLAN
130	TSF - STAGE 3 SOUTH EMBANKMENT - PLAN AND SECTION
215	TSF - STAGE 3 MAIN EMBANKMENT - SECTIONS AND DETAILS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D
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REFERENCE DRAWINGS

Knight Piésold
CONSULTING

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CANADA www.knightpiésold.com

DATE: Sept. 21, 2000 **FILE NO.:** 11162/13.F01.F05
TIME: **REF NO.:** 00-036
OPERATOR: **PAGES:** 1 of 25
SENDER: Jeff Clarke **APPROVED:**

TO: KP Vancouver **FAX:** (604) 685-0147
ATTN: Ken Brouwer / Jeremy Kinch
cc: George Headley, MEMND (250) 952-0481
Eric Leneve, Don Parsons, MPMC
SUBJECT: Mount Polley Stage 3 TSF Construction - Progress Report No. 5

2/10/2000

→ G. Headley

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Form F-01

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT

TAILINGS STORAGE FACILITY
STAGE 3 CONSTRUCTION

PROGRESS REPORT NO. 5 – September 1 to 16, 2000

SECTION 1.0 – GENERAL

Construction activities over the reporting period have steadily progressed towards completion of the Stage 3 contract for the Main Embankment. Major activities have included continued placement of Zone C, T and F fill zones, as well as the start of Zone S placement on the embankment crest.

As part of the Stage 3 raise at the Perimeter Embankment, MPMC has commenced cycloning operations along the upstream face of the embankment.

1.1 PERSONNEL

Mount Polley Mining Corporation (MPMC) management personnel overseeing the Stage 3 contract are as follows:

Eric Leneve, Tailings Coordinator
Don Parsons, Mine Superintendent

The following Knight Piesold Ltd. (KP) representatives were on site during the reporting period:

Jeff Clarke, Site Engineer (dayshift)
Sarah Griffiths, Site Engineer (nightshift)

The following Tercon Contractors Ltd. (TCL) representatives were on site during the reporting period:

Doug Bain, Site Superintendent
Bill Soare, Dayshift Foreman

Tyrl Summers, Nightshift Foreman

1.2 WEATHER

Weather conditions over the period have been variable, with mixed sun, clouds and rain. There were no weather related delays in the work.

1.3 DESIGN AND CONTRACT DEVELOPMENTS

1.3.1 Contract

Following their brief shutdown, TCL resumed full production (dayshift and nightshift operations) on September 7. Filter sand was placed on September 5 and 6 to allow for advancement of the Zone F fill ahead of the Zone T and C rockfill.

A contract meeting was held on September 15. Construction progress indicates that the contract for the Main Embankment will be complete by the end of September. In terms of total quantities, as shown on Table 2.1, the contract is currently about 92% complete.

1.3.2 Design

MPMC and KP have re-reviewed the scheduling requirements for construction of the Stage 3 raise. The updated water balance and filling schedule indicate that construction of the embankment crests to elevation 942.5 m will provide sufficient freeboard through the 2001 freshet. MPMC therefore plans to construct to 942.5 m this year, and to defer construction above this level until summer 2001.

The change in the construction scheduling does not affect the overall embankment design. Reasons for the change in the filling schedule include a lower than anticipated throughput over the past year, as well as a slightly higher tailings dry density.

MPMC and KP are currently working on finalizing the construction sequence for the Perimeter Embankment.

1.4 TAILINGS FACILITY OPERATION AND MAINTENANCE

MPMC commenced cycloning upstream along the Perimeter Embankment on September 10. Six separators set up on three stands are currently installed in the tailings line, and MPMC are working on setting up and installing the remaining units. Discharge from the separators has so far been discontinuous. MPMC is planning operational trials to optimize use of the separators.

MPMC is planning a mill shutdown and reclaim barge move for September 19. Repairs to the tailings line above the T2 dropbox will also be carried out at this time.

The Main Embankment Seepage Collection Pond was pumped down during the TCL shutdown. The recent rainfall has caused a rising pond level again, however. MPMC has extended the depths of the pumps at the facility to further lower the pond during pumping. The recycle pipeline will be reinstated and the pond pumped down again once construction of the Main Embankment is complete.

1.5 SAFETY

No safety incidents were reported for the period.

SECTION 2.0 - CONSTRUCTION ACTIVITIES

2.1 EQUIPMENT

TCL is maintaining the following equipment on site:

- Excavators - 1 Hitachi EX1100, 1 Cat 375, 1 Cat 322B
- Haul trucks - 5 Cat 773's (1 rental)
- Dozers - 1 Cat D8R, 1 Cat D8N (rental), 1 Cat D6D
- Graders - 1 Cat 16G
- Compactors - 1 Cat CS583, 1 Cat CS563 (rental), 1 Cat 825G
- Water truck, service trucks, fuel trucks, forklift

The Cat 825G compactor was brought to site in preparation for placement of Zone S glacial till.

2.2 ACTIVITIES

The major construction activities for the reporting period are summarized below. Dayshift and nightshift crews have been in operation. A summary of the contract quantities completed over this period and to date is provided on Table 2.1.

Main Embankment (TCL)

The Zones F, T and C fill are being raised up the embankment face to the level at which the zones extend vertically upwards (above approx. El. 939m). Construction above this level has typically proceeded as follows:

- The downstream portion of the existing 2C embankment is cut down and out over the Zone F and Zone T (wide enough for the haul trucks) and compacted in two lifts. Glacial till is then placed to raise the Zone S back up to 941 m.
- The downstream slope of the glacial till is cut vertically using a dozer back to where the upstream edge of the Zone F fill will be located (11.5 m offset from the S.O.L.). The till is incorporated into the Zone C rockfill.
- Zone T and C rockfill is placed adjacent to the glacial till.

The Zone rockfill along the west half of the embankment has been raised to El. 940.5 m. Along the east half it is currently between 936 to 939 m. Construction of the vertical Zone F drain will start once the rockfill is raised to 941 m. The drain will be constructed by excavating down through the placed Zone S and Zone T fills to the top of the sloping portion of the drain, then by placing and compacting filter sand in the trench up to grade.

Placement of the Zone S glacial till began on September 15. The material is being excavated from the northwest portion of Borrow Area No. 2. The till from this area is slightly wet, however, and TCL's equipment is having difficulty travelling over the placed material. Test pits excavated in the southeast portion of the borrow indicate drier material, and TCL is planning to construct a haul road into this area.

South Embankment (TCL)

- No work was completed in this area over the reporting period.

Perimeter Embankment (MPMC)

- As noted previously, MPMC is currently cycloning upstream along the Perimeter Embankment. The cyclones are being moved periodically to discharge to new locations.

Rock Borrow

- TCL is carrying out ongoing drilling and blasting in the borrow.

Miscellaneous

- MPMC has received the results of the analyses on the water sample obtained from the bedrock seepage at the toe of the Main Embankment right abutment (Ch. 15+86). The results differ markedly from the supernatant pond water, and indicate that the seepage is not directly related to water from the pond. Natural seepage from the bedrock is commonly encountered in this area.

SECTION 3.0 – KNIGHT PIESOLD ACTIVITIES

3.1 GENERAL

KP site activities over the reporting period have included the following:

- Inspection and documentation of construction activities.
- QA/QC collection and testing of Zone F control samples, and Zone F, T and C record samples.
- Density testing of Zone S fill.
- Test pits and sample collection in borrow areas.
- Extension of piezometer leads through Stage 3 fill zones.
- Ongoing discussions and correspondence with MPMC and KP Vancouver.
- Preparation of daily inspection reports and bi-weekly Progress Reports.
- Collection and review of embankment monitoring data.

3.2 LABORATORY TESTING

The following samples were collected and tested over the reporting period:

- Zone T record samples R/ZT-3-7 to 9
- Zone F control samples C/ZF-3-9 to 19
- Zone F record samples R/ZF-10 to 23
- Glacial till moisture content samples from Borrow Area No. 2

The results of the testing are provided on the summary Tables 3.1 to 3.4 and gradation plots Figures 3.1 to 3.4.

The results show that the Zone T samples meet the specifications for particle size distribution.

The results for the Zone F record tests show that samples R/ZF-3-14 to 16 fell below the coarse limit of the specified gradation envelope by a maximum of about 6%. This was a result of a filter sand crush completed by MPMC on September 5, where more competent waste rock was incorporated in the crush. However, other control and record samples taken from this material fell within the envelope. The material was also typically included in only one of the two Zone F lifts along the sloping portion of the drain. MPMC has included a blend of more weathered material in subsequent filter sand crush operations, which has resulted in a finer product which falls closer to the centre of the gradation envelope.

SECTION 4.0 – EMBANKMENT MONITORING

Monitoring of tailings embankment instrumentation over the reporting period indicates that the embankment is performing well within design tolerances.

Groundwater monitoring wells GW00-1 to 3, installed between August 28 and September 1, were developed by Aqua Installations Inc. of Williams Lake. MPMC will obtain baseline water quality data from the wells and incorporate them into the groundwater monitoring program.

4.1 VIBRATING WIRE PIEZOMETERS

No new piezometers were installed over the reporting period. Piezometer leads have been extended as necessary through the advancing Stage 3 fills.

The most recent piezometer readings were obtained on September 8. The results of the monitoring are shown on Figures 4.1 to 4.5, and are summarized below. Locations of the piezometers are shown on the attached drawings.

Foundation Piezometers

Most of the Main Embankment foundation piezometers have shown slight decreases in pore water pressure following completion of the downstream buttress.

- Plane A: Largest decrease of 0.54 m at A2-PE2-08 (Below Zone C rockfill). A2-PE2-02 registered an increase of 0.23 m.
- Plane B: Largest decrease of 0.62 m at B2-PE2-06 (Below Zone C rockfill). All other piezometers show decreases of less than 0.5 m.
- Plane C: Largest decrease of 0.48 m at C2-PE2-06 (Below Zone C rockfill). All other piezometers show decreases of less than 0.4 m, except for C2-PE1-03, which registered an increase of 0.11 m.
- Plane E: Largest decrease of 0.44 m at E2-PE2-02.

No changes were noted in the Perimeter Embankment (Plane D) foundation piezometers.

Fill Piezometers

Fill piezometers generally remained static or showed slight increases (less than 0.3 m) in the glacial till. The exception was an increase of 1.73 m at B2-PE2-05 (in glacial till below the Stage 3 rockfill).

Drain Piezometers

All drain piezometers have remained static and at a very low head indicating that the drains are free-draining and functioning as designed.

Tailings Piezometers

Water levels at the tailings piezometers continue to mimic the pond level.

4.2 DRAIN FLOWS

Drain outlets in the Main Embankment Seepage Collection Pond drain sump have been submerged due to the rising water level in the pond. Monitoring of the flows will resume once MPMC pumps down the pond following completion of the Main Embankment.

SECTION 5.0 – ONGOING ITEMS

The following items will be addressed during upcoming reporting periods:

- MPMC is planning trials with the Linatex separators to optimize cycloning operations along the Perimeter Embankment.
- MPMC and KP are continuing to review the requirements and scheduling for construction of the Perimeter Embankment.
- MPMC is planning for removal of the Polley Lake Pipeline from within the Perimeter Embankment crest (at El. 940 m) as part of the Stage 3 work.

Submitted by:



Jeff Clarke
Knight Piesold Ltd.

Distribution: Eric Lerieve, Don Parsons – MPMC
George Headley – MEMND
Ken Brotwer – KP Vancouver

TABLE 2.1

MOUNT POLLEY MINE TAILINGS STORAGE FACILITY
STAGE 3 CONSTRUCTION

SUMMARY OF CONTRACT QUANTITIES - To September 16, 2000

C:\Mt. Polley - Stage 3\Progress Reports\Table 2.1 - Quantities.xls\Sheet1

17-8-q-00

Material / Item	Quantity Over Reporting Period		Quantity to Date		Contract Quantity		Percent Complete (%)
Removal of Topsoil /Unsuitable Foundation Material	0	m ³	46,528	m ³	49,500	m ³	100.0
Removal of Unsuitable from Embankment Slopes	14,820	m ³	20,020	m ³	11,000	m ³	100.0
Supply and Place Zone T and C	85,990	m ³	372,846	m ³	388,000	m ³	96.1
Supply and Place Zone F	8,000	m ³	21,500	m ³	24,500	m ³	87.8
Supply and Place Zone S	4,000	m ³	4,000	m ³	26,200	m ³	15.3
Totals			458,846	m ³	499,200	m ³	91.9

Notes:

1. Volumes are based on both survey information and load counts.
2. Volumes for Zone F are assumed based on an estimated placement rate of 1,000 m³ per shift.
3. Volumes for contract quantities are for both the Main and South Embankments.
4. Volumes for contract quantities have been revised based on a crest elevation of 942.5 m.

TABLE 3.1

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY

STAGE 3 CONSTRUCTION
ZONE T RECORD TESTS - SUMMARY SHEET

#N/A

Date Printed 17-Sep-00

Date Sampled	Sample No.	Location	C3 (Particle Size Distribution)			
			Cobbles % > 3 inch	Gravel % 3 inch to #4	Sand % #4 to #200	Silt/Clay % < #200
3-Jun-00	R/ZT-3-1	Zone T Fill	20.0	61.5	15.7	2.8
16-Jul-00	R/ZT-3-2	Zone T Fill	20.0	58.7	16.2	5.1
25-Jul-00	R/ZT-3-3	Zone T Fill	13.9	66.1	18.4	1.6
27-Jul-00	R/ZT-3-4	Zone T Fill	22.0	65.0	12.5	0.5
22-Aug-00	R/ZT-3-5	Zone T Fill, Chainage: 23+00, Elevation: 929 m	37.2	36.1	24.9	1.8
20-Aug-00	R/ZT-3-6	Zone T Fill, Chainage: 19+50, Elevation: 929 m	34.5	40.0	24.0	1.5
29-Aug-00	R/ZT-3-7	Zone T Fill, Chainage: 20+00, Elevation: 932 m	5.0	57.2	36.0	1.8
9-Sep-00	R/ZT-3-8	Zone T Fill, Chainage: 18+00, Elevation: 936 m	20.0	59.7	18.3	2.0
12-Sep-00	R/ZT-3-9	Zone T Fill, Chainage: 26+00, Elevation: 940 m	10.0	62.7	25.5	1.8
MEAN			20.3	56.3	21.3	2.1
MEDIAN			20.0	59.7	18.4	1.8
MAXIMUM			37.2	66.1	36.0	5.1
MINIMUM			5.0	36.1	12.5	0.5

Notes:

1) C3 (Particle Size Distribution) - ASTM D422

TABLE 3.2

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY

STAGE 3 CONSTRUCTION
ZONE C RECORD TESTS - SUMMARY SHEET

C:\Mt. Polley - Stage 3\Lab Testing\Zone C\Zone C Summary.xls\Record Summary

Date Printed

17-Sep-00

Date Sampled	Sample No.	Location	C3 (Particle Size Distribution)			
			Cobbles %	Gravel %	Sand %	Silt/Clay %
			> 3 inch	3 inch to #4	#4 to #200	< #200
2-Aug-00	R/ZC-3-1	Zone C Fill	56.4	34.7	8.4	0.5
21-Aug-00	R/ZC-3-2	Zone C Fill, Chainage: 22+55, Elevation 928.3	50.6	36.3	12.8	0.3
24-Aug-00	R/ZC-3-3	Zone C Fill, Chainage: 22+40, Elevation 929m	48.6	35.5	15.3	0.5
MEAN			51.9	35.5	12.2	0.4
MEDIAN			50.6	35.5	12.8	0.5
MAXIMUM			56.4	36.3	15.3	0.5
MINIMUM			48.6	34.7	8.4	0.3

Notes:

1) C3 (Particle Size Distribution) - ASTM D422

TABLE 3.3

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY

STAGE 3 CONSTRUCTION
ZONE F CONTROL TESTS - SUMMARY SHEET

C:\Mt. Polley - Stage 3\Lab Testing\Zone F\Zone F Summary.xls\Record Summary

Date Printed

17-Sep-00

Date Sampled	Sample No.	Location	C3 (Particle Size Distribution)			
			Cobbles	Gravel	Sand	Silt/Clay
			% > 3 inch	% 3 inch to #4	% #4 to #200	% < #200
17-Jul-00	C/ZF-3-1	Conveyor	0.0	64.2	32.9	2.9
19-Jul-00	C/ZF-3-2	Stockpile	0.0	50.9	45.4	3.7
19-Jul-00	C/ZF-3-3	Conveyor	0.0	61.4	36.2	2.4
20-Jul-00	C/ZF-3-4	Stockpile	0.0	49.9	47.0	3.1
1-Aug-00	C/ZF-3-5	Stockpile	0.0	61.0	38.0	1.0
25-Aug-00	C/ZF-3-6	Conveyor	0.0	60.5	38.0	1.5
25-Aug-00	C/ZF-3-7	Stockpile	0.0	70.2	27.7	2.1
25-Aug-00	C/ZF-3-8	Stockpile	0.0	46.7	51.0	2.3
6-Sep-00	C/ZF-3-9	Stockpile	0.0	55.4	42.8	1.8
6-Sep-00	C/ZF-3-10	Stockpile	0.0	63.4	35.5	1.1
8-Sep-00	C/ZF-3-11	Stockpile	0.0	60.7	37.9	1.3
9-Sep-00	C/ZF-3-12	Stockpile	0.0	53.5	45.3	1.2
9-Sep-00	C/ZF-3-13	Stockpile	0.0	47.1	51.2	1.7
9-Sep-00	C/ZF-3-14	Stockpile	0.0	55.5	43.4	1.1
12-Sep-00	C/ZF-3-15	Stockpile	0.0	65.5	31.9	2.6
12-Sep-00	C/ZF-3-16	Stockpile	0.0	60.1	38.3	1.6
13-Sep-00	C/ZF-3-17	Stockpile	0.0	44.7	51.2	4.0
13-Sep-00	C/ZF-3-18	Stockpile	0.0	45.0	51.9	3.0
14-Sep-00	C/ZF-3-19	Stockpile	0.0	39.9	57.8	2.2
MEAN			0.0	55.6	42.3	2.2
MEDIAN			0.0	55.5	42.8	2.1
MAXIMUM			0.0	70.2	57.8	4.0
MINIMUM			0.0	39.9	27.7	1.0

Notes:

1) C3 (Particle Size Distribution) - ASTM D422

TABLE 3.4

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY

STAGE 3 CONSTRUCTION
ZONE F RECORD TESTS - SUMMARY SHEET

C:\Mt. Polley - Stage 3\Lab Testing\Zone F\Zone F Summary.xls\Record Summary

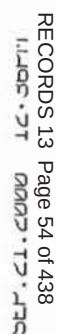
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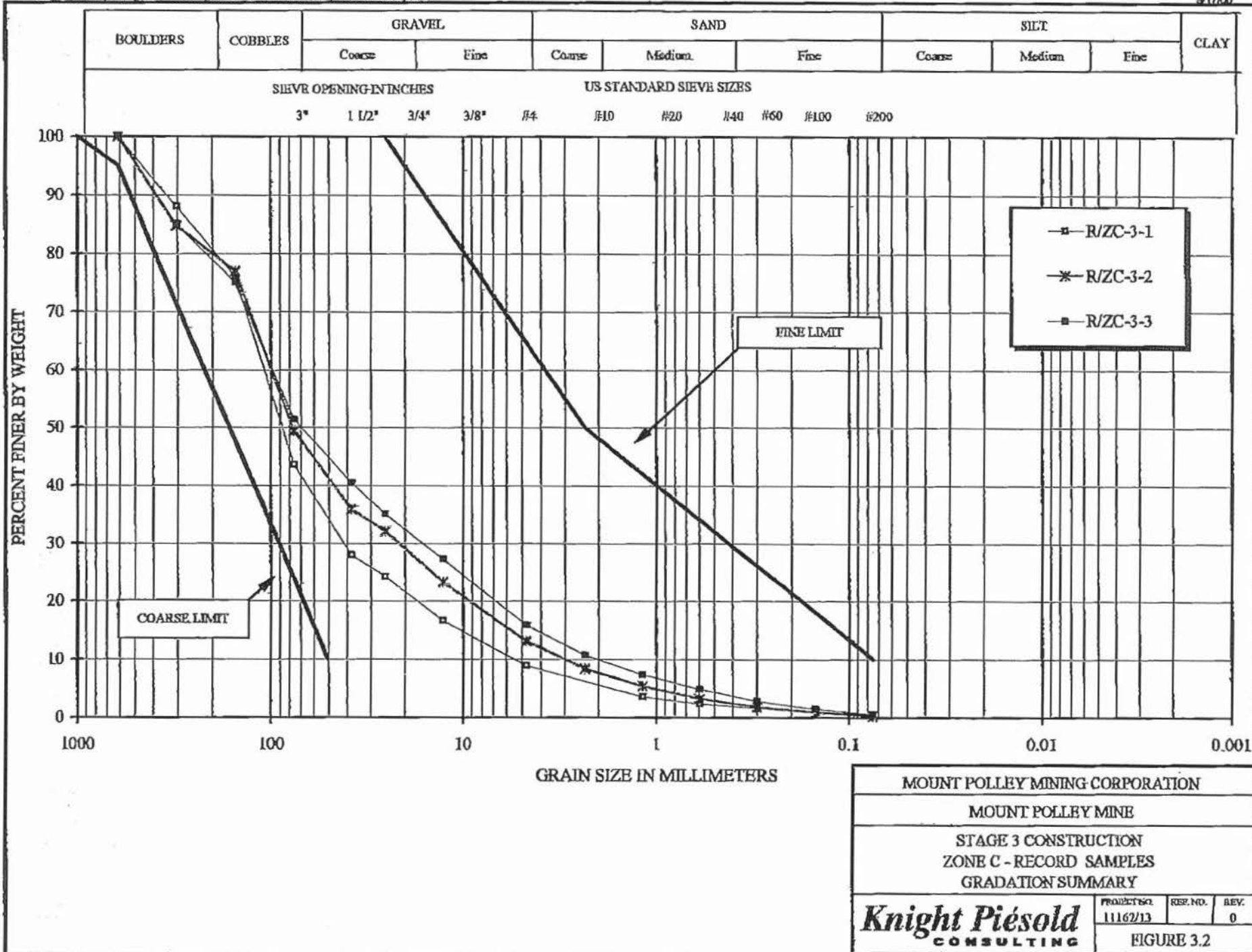
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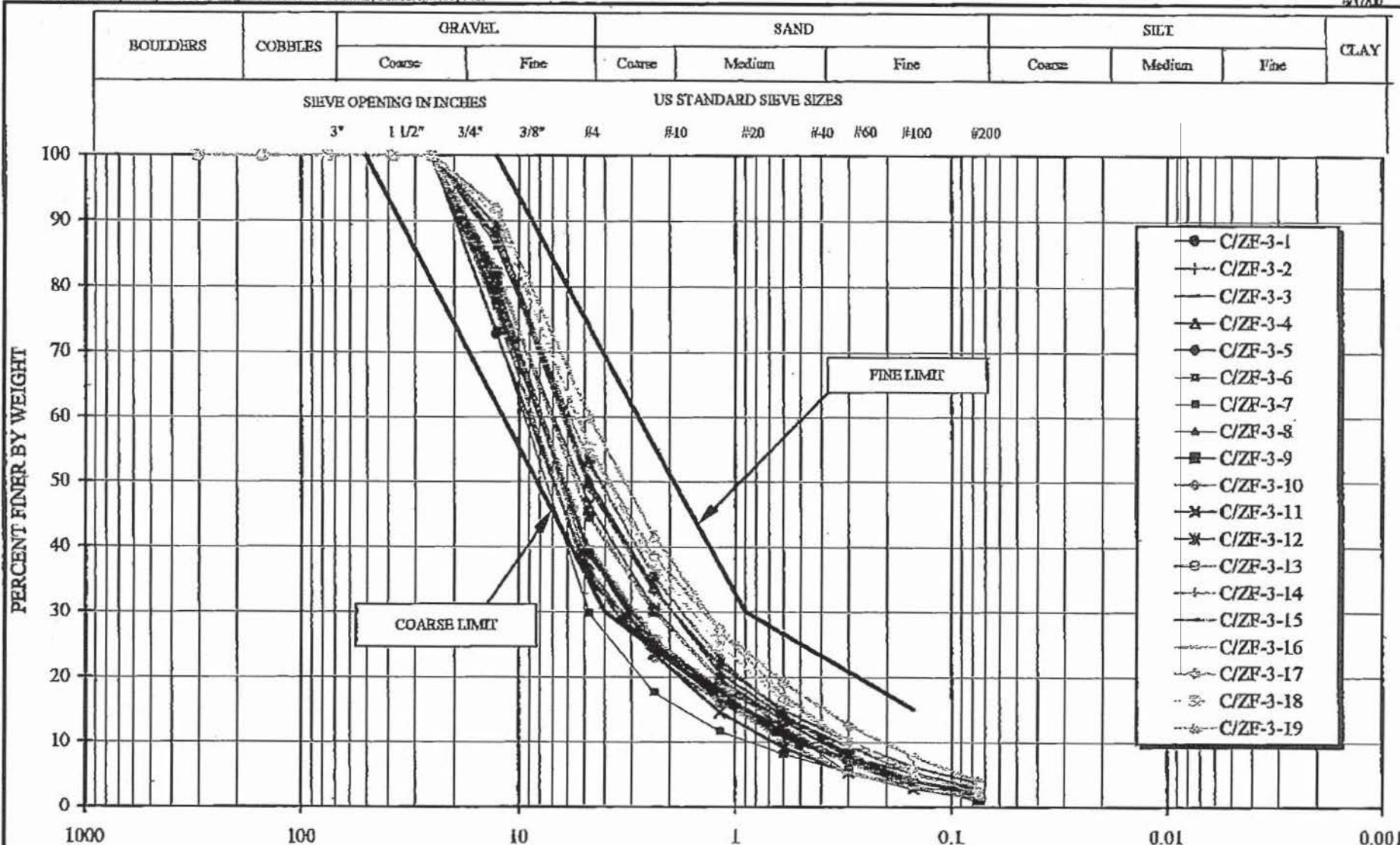
Date Sampled	Sample No.	Location	Chainage	Elevation	C3 (Particle Size Distribution)			
					Cobbles % > 3 inch	Gravel % 3 inch to #4	Sand % #4 to #200	Silt/Clay % < #200
19-Aug-00	R/ZF-3-1	Zone F Fill	26+10	935 m	0.0	48.2	48.7	3.1
20-Aug-00	R/ZF-3-2	Zone F Fill	17+10	935 m	0.0	50.0	45.8	4.2
21-Aug-00	R/ZF-3-3	Zone F Fill	20+00	933 m	0.0	53.4	43.6	3.0
23-Aug-00	R/ZF-3-4	Zone F Fill	20+05	935 m	0.0	46.3	50.4	3.3
24-Aug-00	R/ZF-3-5	Zone F Fill	25+50	935 m	0.0	57.9	39.0	3.1
26-Aug-00	R/ZF-3-6	Zone F Fill	19+00	935 m	0.0	52.2	44.1	3.7
26-Aug-00	R/ZF-3-7	Zone F Fill	21+60	935 m	0.0	53.6	45.7	0.7
27-Aug-00	R/ZF-3-8	Zone F Fill	22+00	935 m	0.0	58.0	39.6	2.4
28-Aug-00	R/ZF-3-9	Zone F Fill	24+50	937 m	0.0	54.5	41.7	3.8
29-Aug-00	R/ZF-3-10	Zone F Fill	23+40	936 m	0.0	61.7	35.6	2.7
30-Aug-00	R/ZF-3-11	Zone F Fill	21+80	937 m	0.0	51.3	45.1	3.6
6-Sep-00	R/ZF-3-12	Zone F Fill	16+20	940 m	0.0	61.0	36.9	2.1
7-Sep-00	R/ZF-3-13	Zone F Fill	21+30	940 m	0.0	62.1	35.5	2.3
8-Sep-00	R/ZF-3-14	Zone F Fill	16+40	939 m	0.0	56.8	41.0	2.1
8-Sep-00	R/ZF-3-15	Zone F Fill	17+50	937 m	0.0	60.3	37.4	2.3
8-Sep-00	R/ZF-3-16	Zone F Fill	18+50	937 m	0.0	68.5	29.1	2.4
9-Sep-00	R/ZF-3-17	Zone F Fill	21+40	937 m	0.0	53.4	43.1	3.4
9-Sep-00	R/ZF-3-18	Zone F Fill	22+20	937 m	0.0	54.7	42.9	2.4
10-Sep-00	R/ZF-3-19	Zone F Fill	25+50	938 m	0.0	55.4	40.9	3.7
10-Sep-00	R/ZF-3-20	Zone F Fill	22+80	937 m	0.0	56.4	41.4	2.2
12-Sep-00	R/ZF-3-21	Zone F Fill	22+00	939 m	0.0	48.5	49.1	2.4
14-Sep-00	R/ZF-3-22	Zone F Fill	19+00	939 m	0.0	46.3	50.4	3.3
14-Sep-00	R/ZF-3-23	Zone F Fill	17+50	939 m	0.0	50.3	46.9	2.8
MEAN					0.0	54.8	42.3	2.8
MEDIAN					0.0	54.5	42.9	2.8
MAXIMUM					0.0	68.5	50.4	4.2
MINIMUM					0.0	46.3	29.1	0.7

Notes:

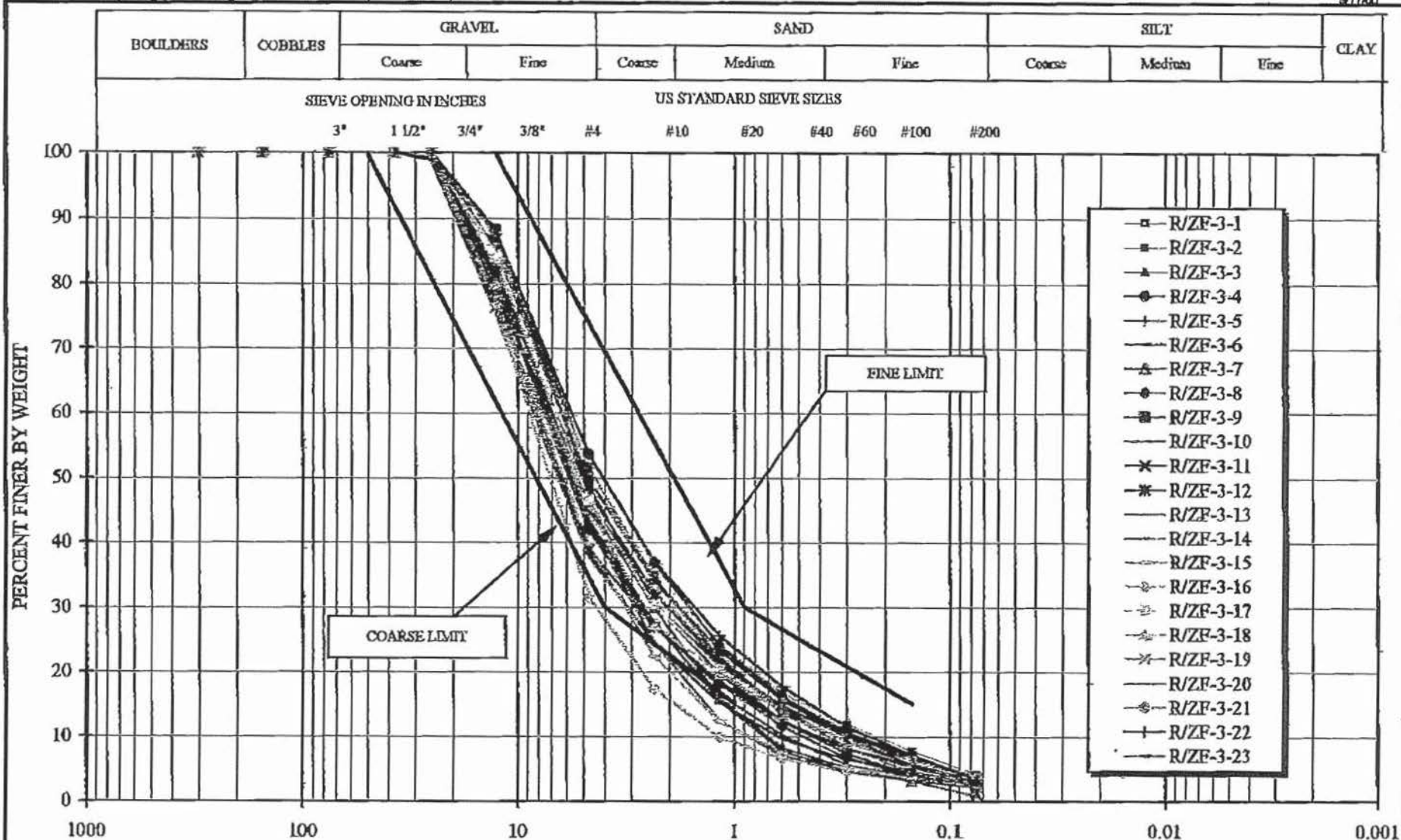
1) C3 (Particle Size Distribution) - ASTM D422







MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
STAGE 3 CONSTRUCTION			
ZONE F - CONTROL SAMPLES			
GRADATION SUMMARY			
Knight Piesold		PROJECT NO.	REV.
CONSULTING		11162/13	0
FIGURE 3.3			



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

STAGE 3 CONSTRUCTION
ZONE F - RECORD SAMPLES
GRADATION SUMMARY

Knight Piésold
CONSULTING

PROJECT NO.	REV. NO.	REV.
11162/13		0

FIGURE 3.4

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE A PIEZOMETERS

KNIGHT PIESOLD
CONSULTING

- - - Pond Level	— Fill Elevation	* A0-PE2-01	+ A0-PE2-02
- - - A1-PE1-01	- - - A1-PE1-02	◇ A1-PE1-03	▲ A2-PE1-01
- - - A2-PE2-01	- - - A2-PE2-02	◇ A2-PE2-03	✕ A2-PE2-05
- - - A2-PE2-06	- - - A2-PE2-07	+ A2-PE2-08	+ A1-PE1-04
- - - A2-PE1-02	- - - A0-PE1-01	◇ A2-PE1-03	

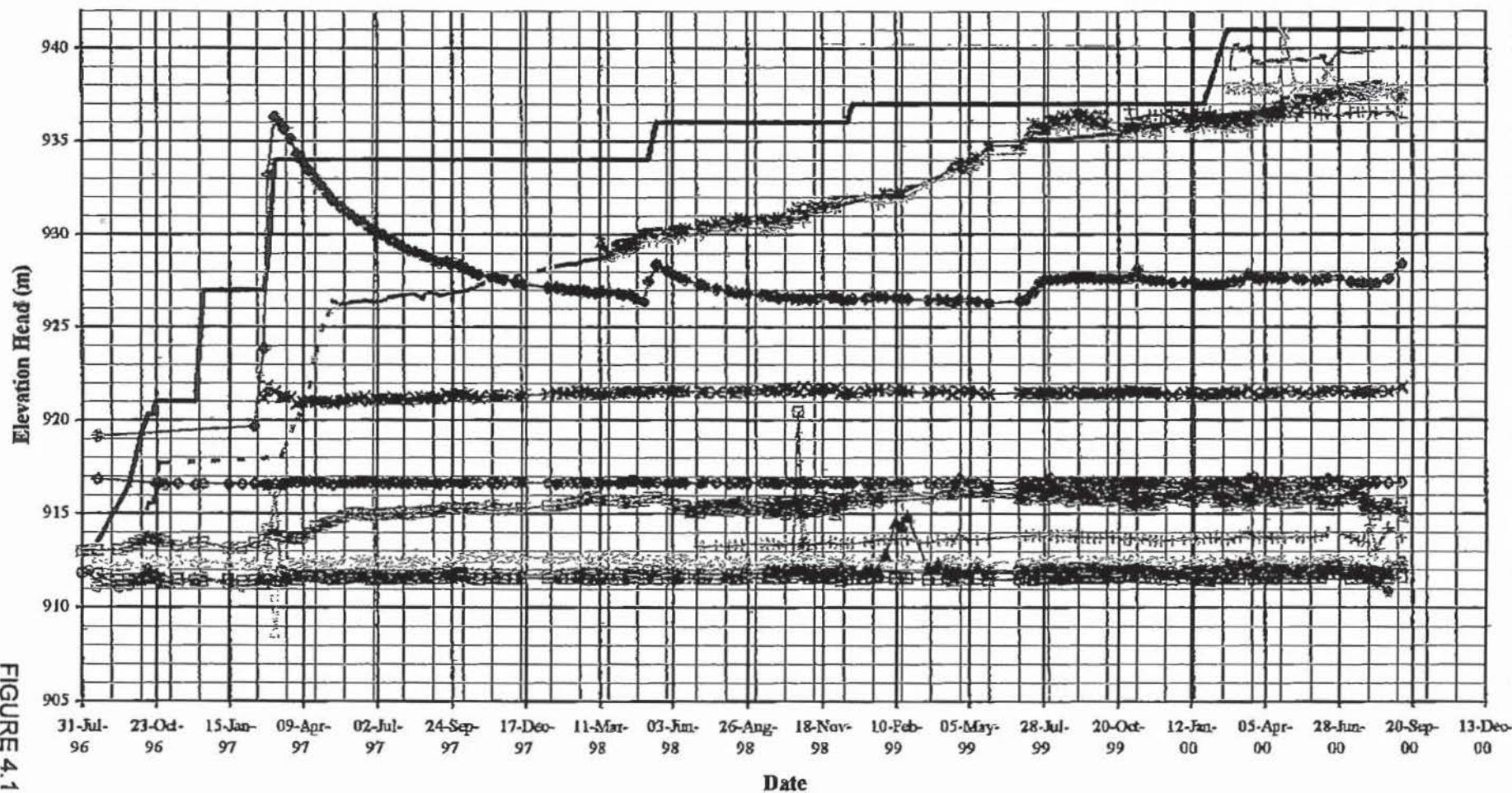
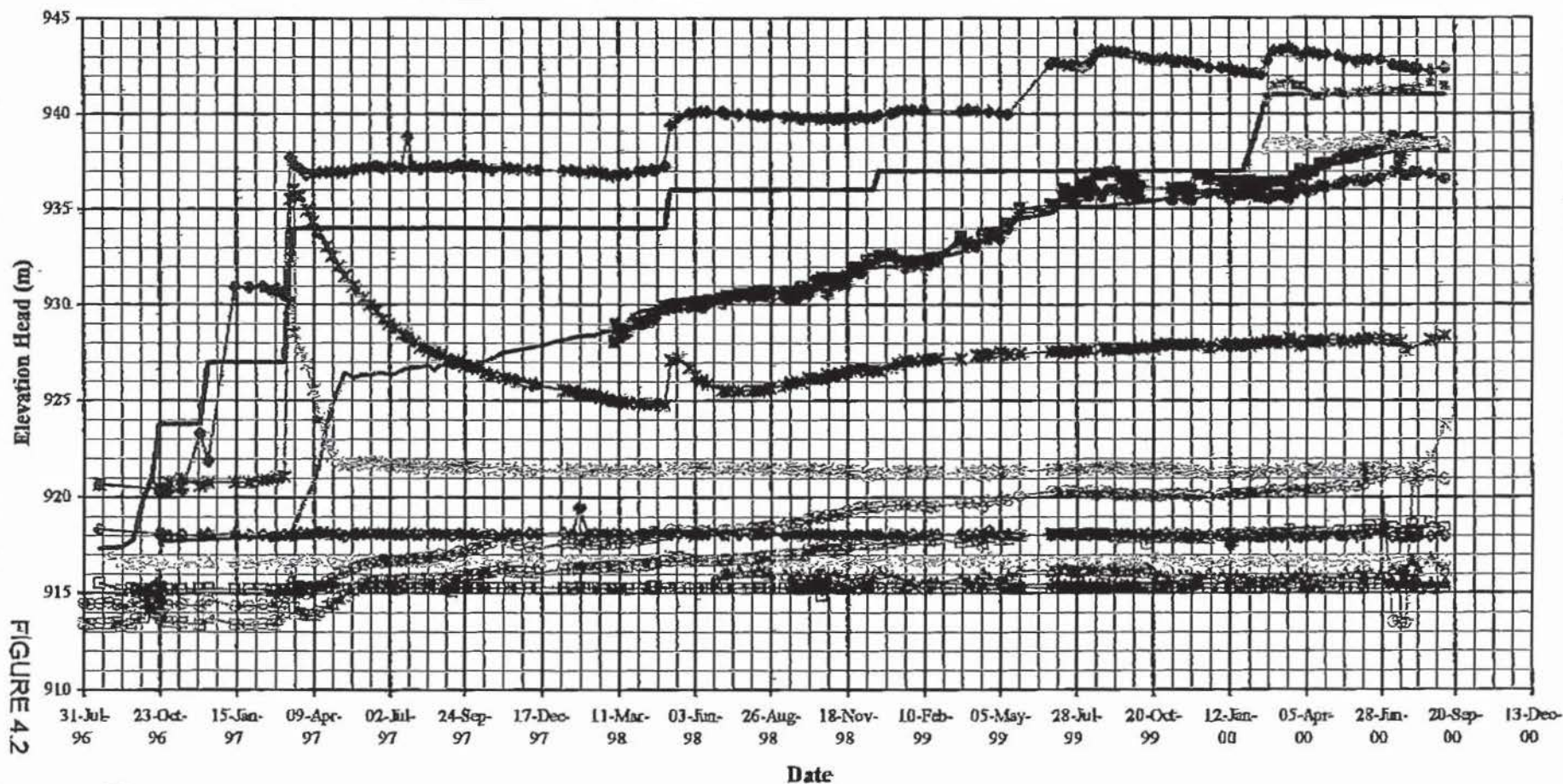
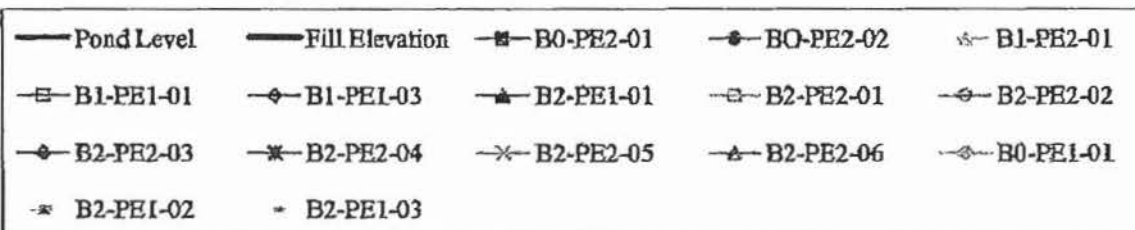


FIGURE 4.1

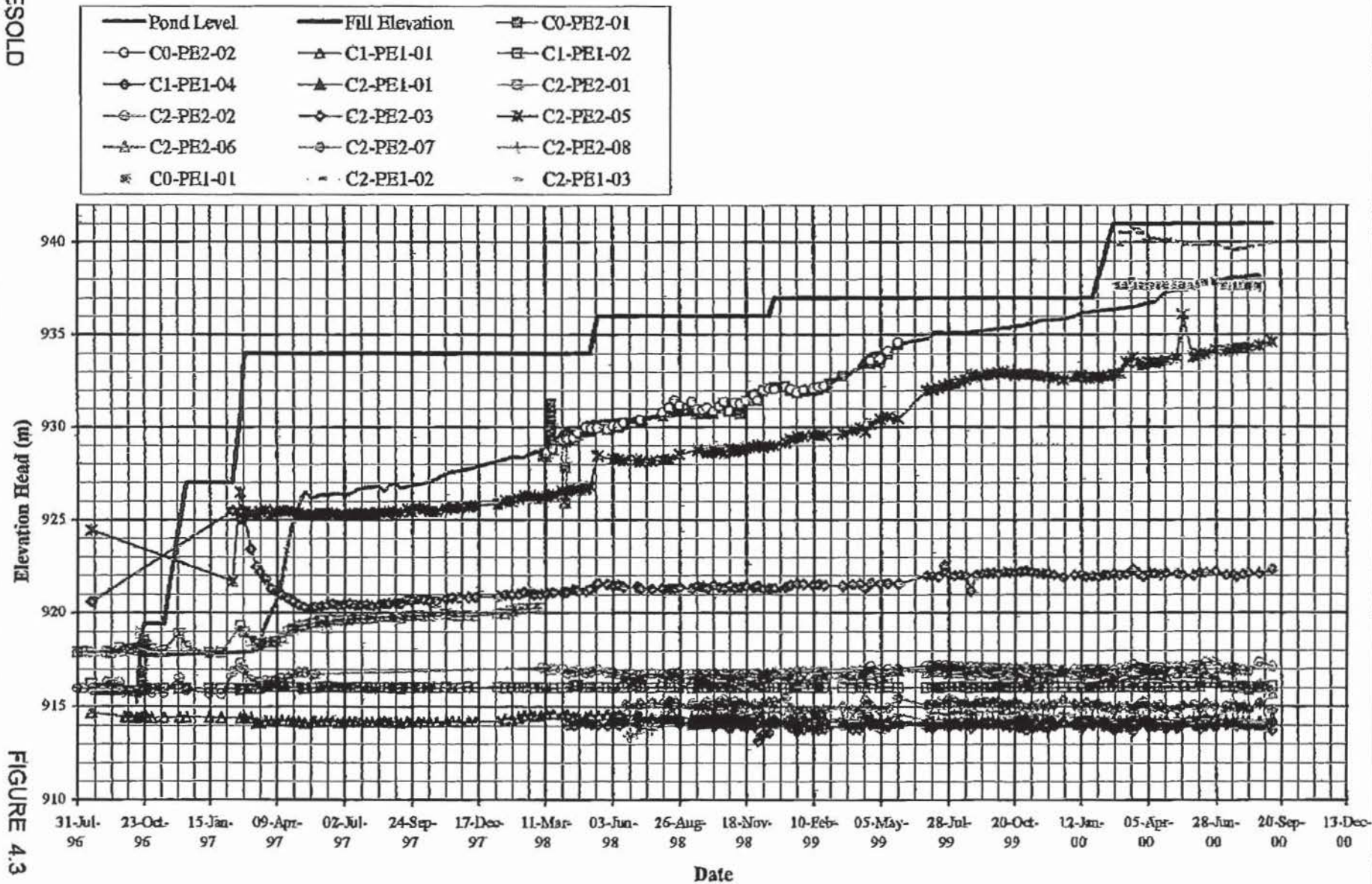
KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE B PIEZOMETERS



KNIGHT PIESOLD
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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE C PIEZOMETERS



KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE D PIEZOMETERS

— Pond Level — Fill Elevation □ D1-PE1-02
▲ D2-PE1-01 — D2-PE2-01 □ D2-PE2-02

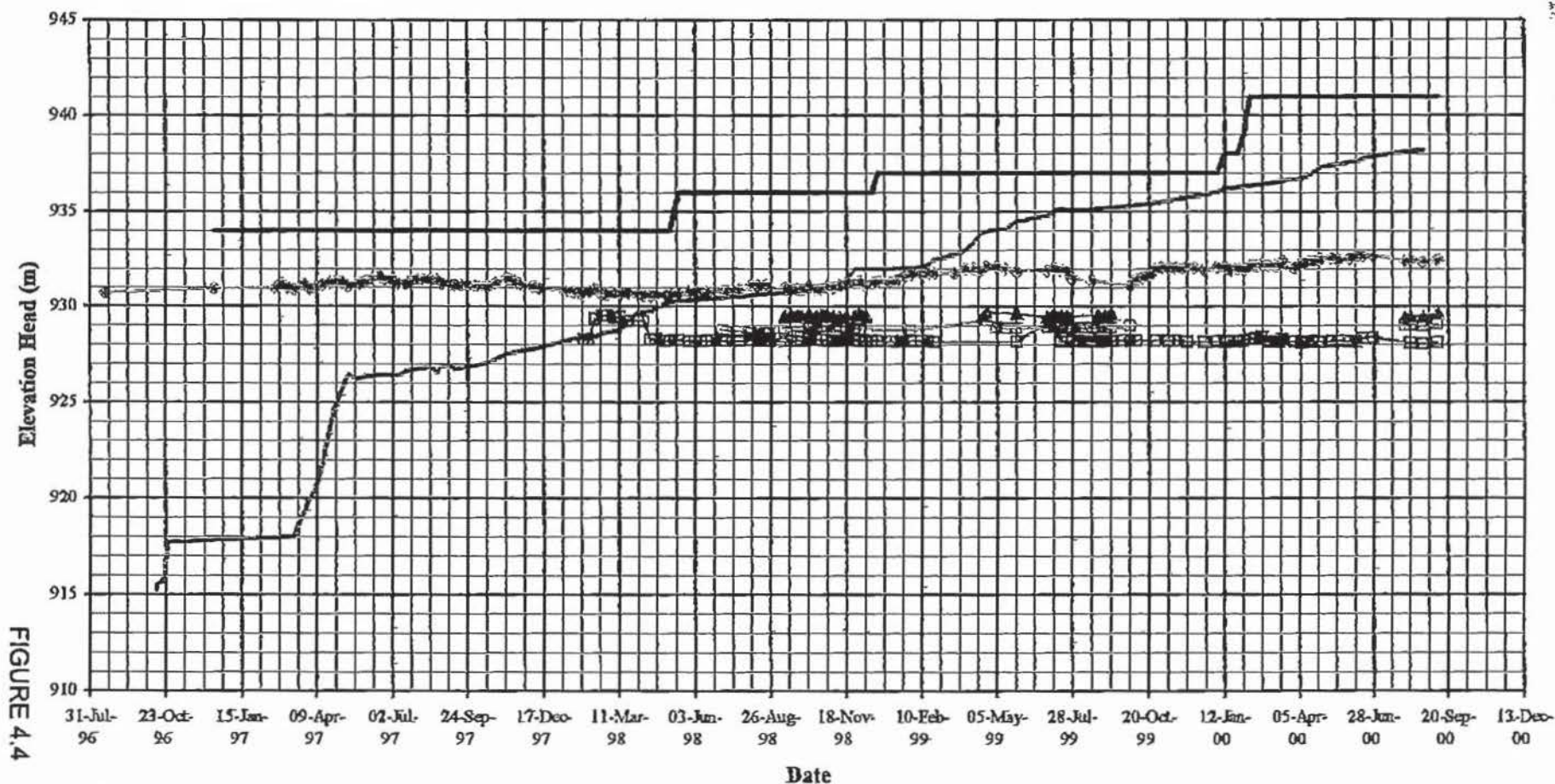


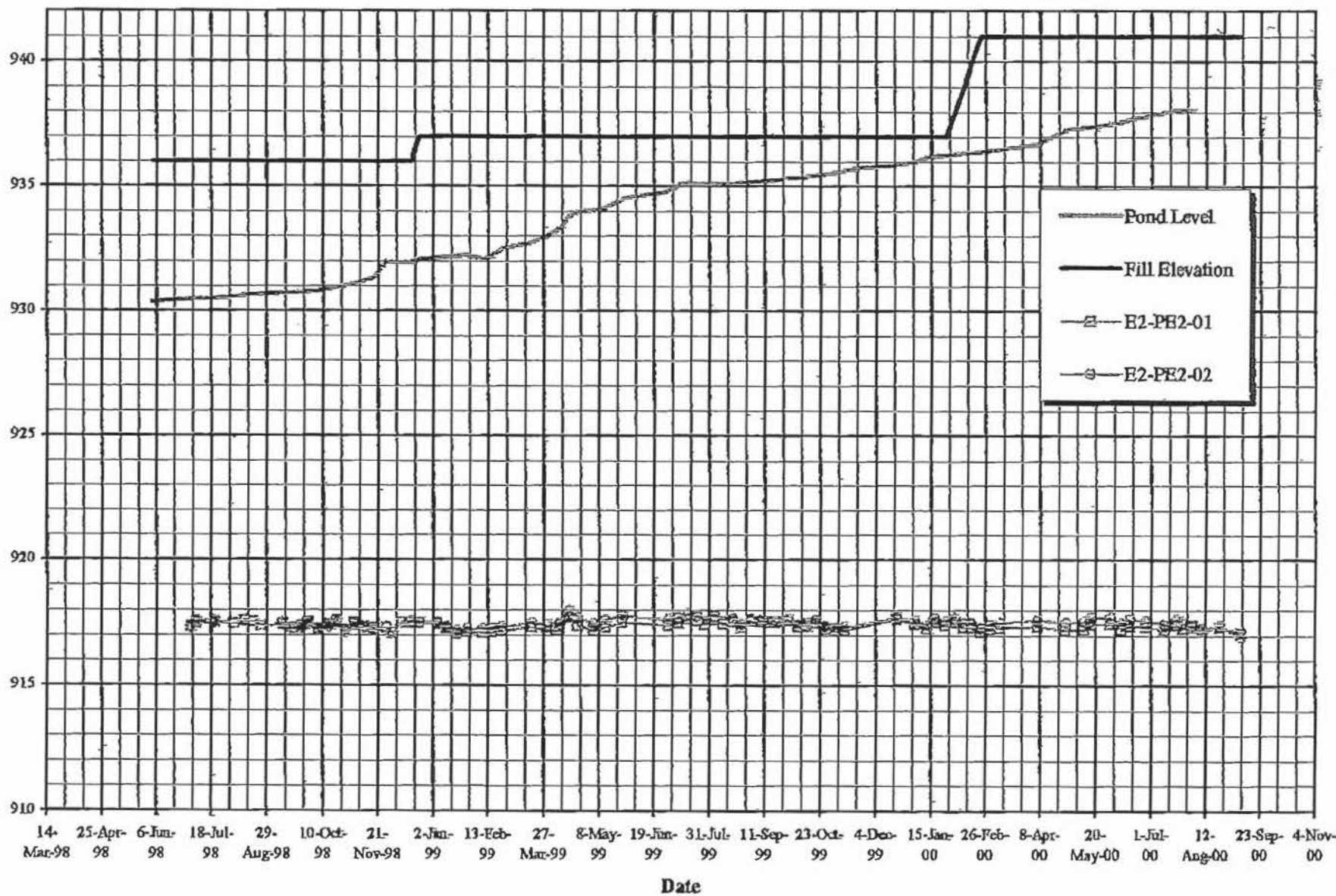
FIGURE 4.4

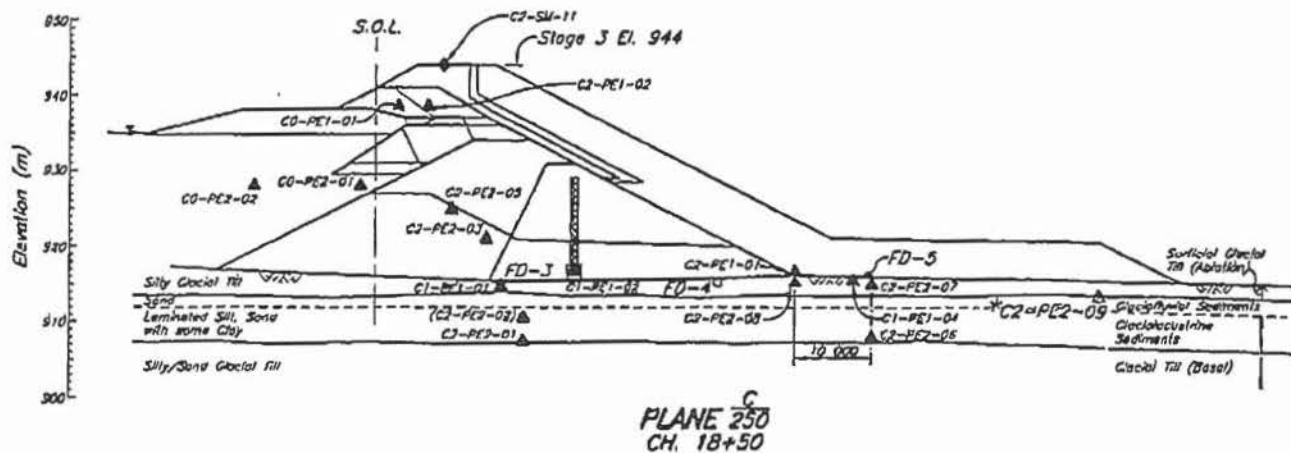
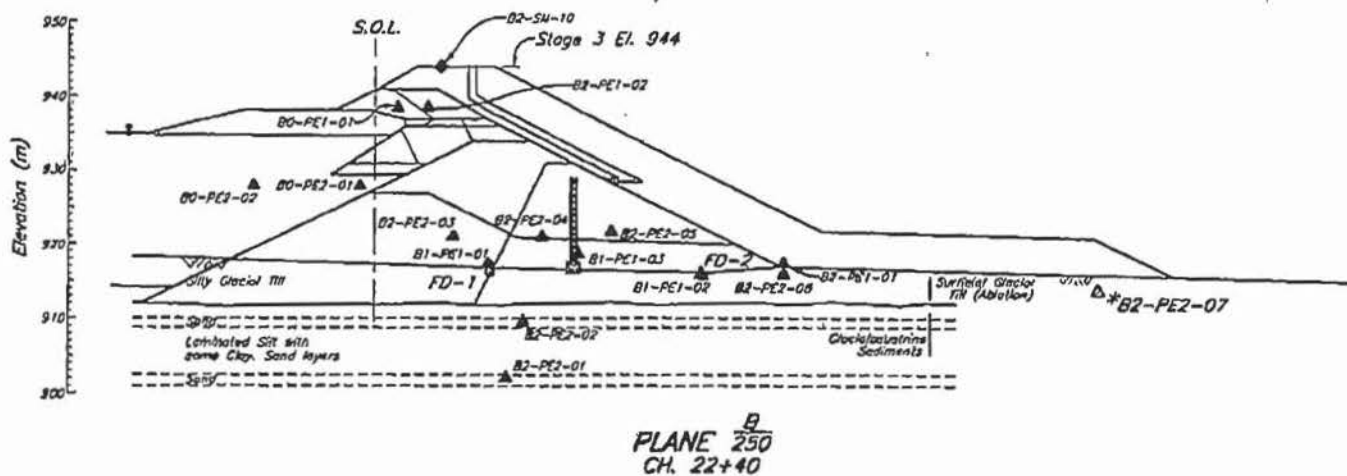
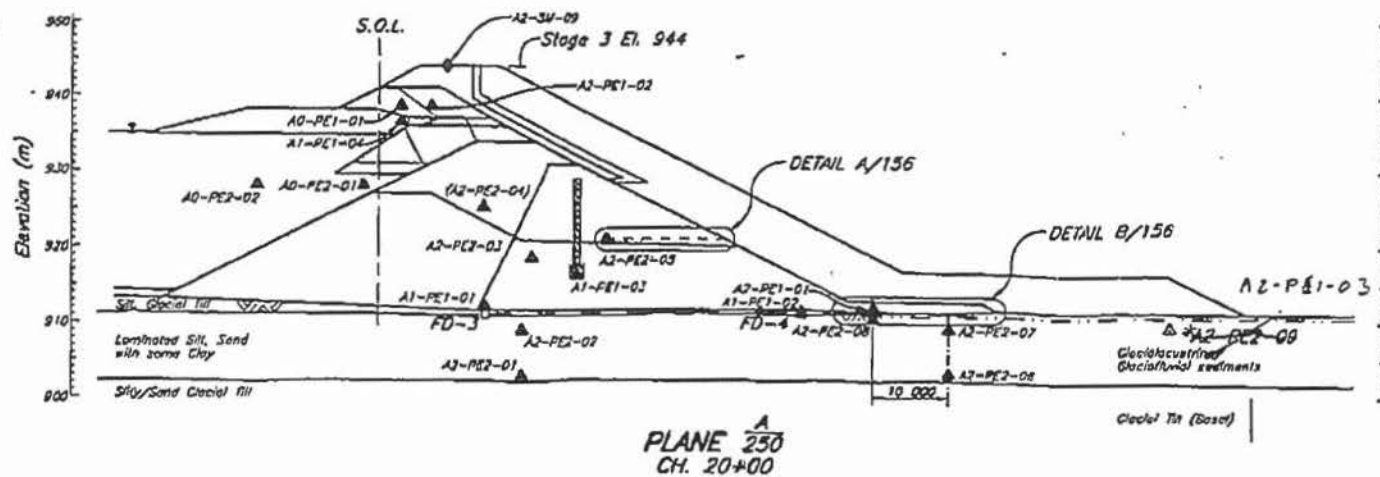
MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE E PIEZOMETERS

KNIGHT PIESOLD
CONSULTING

Elevation Head (m)

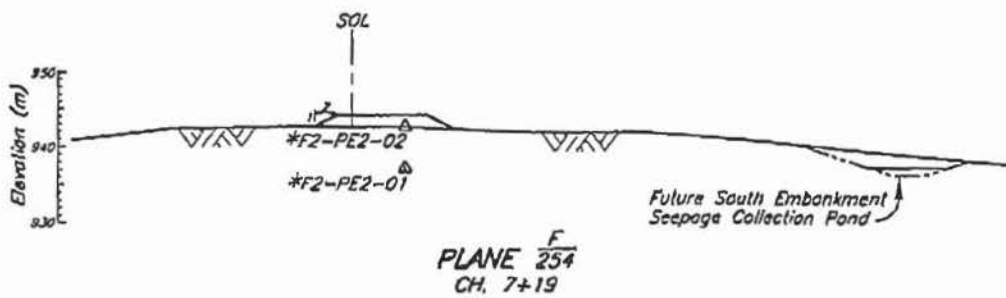
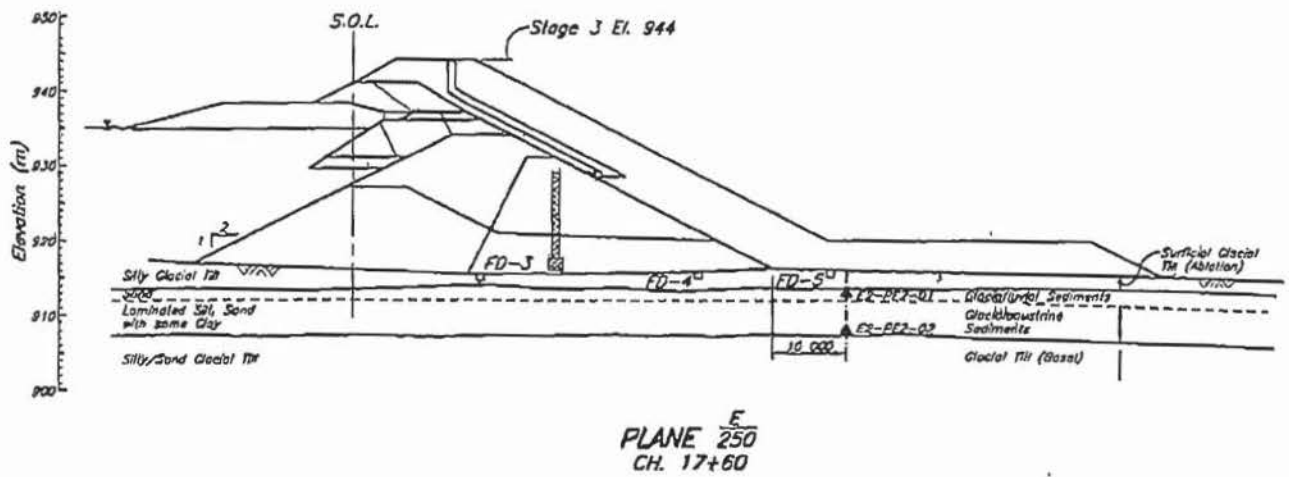
FIGURE 4.5





IT - INSTRUMENTATION - SECTIONS 2 OF 2
IT - INSTRUMENTATION - SUMMARY OF INSTALLATION & TYP. DETAILS
IT - INSTRUMENTATION - PLAN

IT - INSTRUMENTATION - PLAN				0 2JUN'00 ISSUED FOR CONSTRUCTION			
DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
REFERENCE DRAWINGS	REVISIONS			REVISIONS			



256	TSF - STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION SUMMARY OF INSTALLATION & TYPICAL DETAILS
254	TSF - STAGE 3 TAILINGS EMBANKMENT - SOUTH EMBANKMENT - INSTRUMENTATION PLAN
250	TSF - STAGE 3 TAILINGS EMBANKMENT - MAIN EMBANKMENT - INSTRUMENTATION PLAN
130	TSF - STAGE 3 SOUTH EMBANKMENT - PLAN AND SECTION
215	TSF - STAGE 3 MAIN EMBANKMENT - SECTIONS AND DETAILS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D
REVISIONS					

14 145-46/MTP0/01

Jeff Clarke, Site Engineer (dayshift) – Left site on October 24.

Sarah Griffiths, Site Engineer (nightshift) – Left site on September 26 following the completion of nightshift operations.

Jeremy Kinch was on site September 18 to 21 to substitute for Jeff Clarke and to discuss with MPMC construction sequencing for the Perimeter Embankment.

-1-

11162/13-0700-6
Revision 0
October 13, 2000

Knight Piesold CONSULTING Knight Piesold P.O. Box 10 34 Commerce Crescent North Bay, ON P1B 8G8 CANADA Tel: +1 (705) 476-2165 Fax: +1 (705) 474-8095 Email: kpn@onlink.net www.knightpiesold.com	DATE:	Nov. 3, 2000	FILE NO.	11162/13.01
	TIME:		REF. NO.	
	OPERATOR:		PAGES:	32
	SENDER:	Jeff Clarke	APPROVED:	

TO:	MPMC	FAX NO.:	250 790-2268
ATTENTION:	Don Parsons, Eric Leneve, Greg Smyth		
Cc:	George Headley - MEMND 250-952-0481		
	Ken Brouwer, Jeremy Kinch – KP Vancouver		
SUBJECT:	Mount Polley Stage 3A		

Please find following Progress Report No. 6 (revised).

Regards,



Jeff Clarke

Knight Piesold
CONSULTING

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT

TAILINGS STORAGE FACILITY
STAGE 3 CONSTRUCTION

PROGRESS REPORT NO. 6 – September 17 to October 24, 2000

SECTION 1.0 –GENERAL

The Stage 3A construction of the Tailings Storage Facility Main and South Embankments was completed on September 28. The embankments have been raised to the target elevation of 942.5 m.

Construction of the raise for the Perimeter Embankment is ongoing. MPMC has intensified cycloning operations along the upstream face to complete this work prior to the onset of freezing conditions. MPMC and KP have been reviewing the construction sequencing and scheduling for the embankment, as discussed in detail in Section 1.3.

1.1 **PERSONNEL**

Mount Polley Mining Corporation (MPMC) management personnel overseeing the Stage 3 work are as follows:

Eric Leneve, Tailings Coordinator
Don Parsons, Mine Superintendent

The following Knight Piesold Ltd. (KP) representatives were on site during the reporting period:

Jeff Clarke, Site Engineer (dayshift) – Left site on October 24.

The following Tercon Contractors Ltd. (TCL) representatives were on site during the reporting period:

Doug Bain, Site Manager

Bill Soare, Dayshift Foreman

Tyrl Summers, Nightshift Foreman

The TCL crew left site on upon completion of the Main and South Embankments.

1.2 WEATHER

Weather conditions over the period have generally been sunny, with occasional periods of rainfall and sleet. Temperatures have been decreasing, with freezing conditions developing overnight. Current temperatures have been ranging from about -5°C to +10°C.

There have been no weather related work delays.

1.3 DESIGN AND CONTRACT DEVELOPMENTS

1.3.1 Contract

TCL has completed construction of the Main and South Embankments to the required elevation and to the contract specifications, and is currently working on as-built drawings and volume calculations for final payment.

MPMC will be providing TCL with a list of deficiencies to be addressed prior to completion of the contract. The deficiencies include implementing drainage in Borrow Area No. 2, repair of the toe drain conveyance pipe at the right abutment of the Main Embankment, and scaling of the rock borrow.

1.3.2 Design

MPMC and KP have continued to review the construction sequencing and scheduling required for the Perimeter Embankment. MPMC wishes to minimize the construction requirements and associated costs for the remainder of this stage.

MPMC's planned construction program is discussed below and shown on the attached Figures 1.1 to 1.4. The figures are based on the currently permitted embankment design.

Storage Requirement

The design storage requirement for the Tailings Facility is to provide sufficient capacity for tailings and supernatant water, as well as for the 24 hour PMP event.

MPMC has revisited the Tailings Facility water balance calculations, with the purpose of evaluating methods to maintain a lower pond volume and thereby reduce the required embankment core elevation. Based on this review, MPMC has determined that a core zone elevation of 941.0 m will serve to provide the design storage requirements through to the end of July 2001. The analysis is based on the following:

- Constructing diversion ditches to control upstream runoff (Area 4) and direct it into or away from the Tailings Facility as required. The ditches will be sized by MPMC to accommodate runoff from the PMP event.
- Deferring pumping from Polley Lake until after the next phase of construction in Summer 2001.
- Using groundwater wells for makeup water to the maximum extent possible.

MPMC also plans to conduct an on-going check of the water balance against actual conditions through the 2001 freshet to confirm that conditions are as expected.

A survey of the Perimeter Embankment carried out by MPMC shows that some sections of the crest are below El. 941.0 m. The lowest point is at about 940.5 m. MPMC plans to raise these sections to 941.0 m using Zone S glacial till.

Freeboard Requirement

1.0 m of freeboard is required for wave run-up. MPMC plans to provide the freeboard by construction of a cycloned sand berm upstream of the core zone. The berm will be constructed to El. 942.5 m., although the water balance calculations indicate that freeboard is only required to 942.0 m. The additional 0.5 m will provide freeboard in the event that Zone S must be raised to provide additional storage capacity.

It is planned that the cycloned sand berm will be constructed along the entire length of the embankment by hydraulic placement followed by mechanical shaping, as shown on Figure 1.2. Based on current rates of cycloning, MPMC expects to have construction of the berm complete by early November.

If, however, freezing conditions prevent cycloning and completion of the berm by this method, the section of the embankment between setting out points S5 and S6 will be constructed by one of the two methods shown on Figure 1.3. The first method (A) involves mechanical placement of the upstream sand berm, using a coarse bearing layer as necessary to support construction traffic. The second method (B) involves downstream construction of Zone F, T, and C fills, or cycloned sand, and may include raising of the embankment Zone S core against the downstream fill.

At the north abutment of the embankment, an approximately 75 m long section of the berm has been constructed from fine rockfill (Zone T material) to the approximate configuration shown on Figure 1.4. The reason for this is that the cyclones could not properly reach this area and were trapping water and slimes against the abutment.

Knight Piesold has carried out an upstream stability analysis to confirm the stability of the sand berm. The liquefaction potential of the tailings was assessed for the two design earthquakes, the Operational Basis Earthquake (OBE) and the Maximum Design Earthquake (MDE). The analyses indicate adequate Factors of Safety against loss of freeboard following the OBE.

Construction Sequence

The proposed construction sequence for raising of the Perimeter Embankment is as listed below. The work will be carried out in sections, such that construction can progress on each section as cycloning is completed.

- Move tailings line and prepare foundation at north abutment of embankment. Construct upstream rockfill berm to configuration shown on Figure 1.4.
- Construct ramps on downstream side of embankment as necessary to access embankment crest.

- Complete cycloning along designated embankment section. Remove cyclones from crest and smooth out top of hydraulically placed sand.
- Move tailings line onto sand.
- Prepare crest of existing embankment (grade off unsuitable material) in preparation for Zone S placement along low areas.
- Place Zone S till on crest as required to raise to 941.0 m.
- Shape upstream sand berm to configuration shown on Figure 1.2.
- If freezing conditions do not permit completion of hydraulically placed upstream berm, raise section between S6 and S5 using one of the methods shown on Figure 1.3.

Downstream Stability

KP has also carried out an analysis to evaluate the downstream stability of the embankment. The analysis indicates that the embankment has an overall Factor of Safety of 1.4 against large failures causing loss of freeboard. This meets the requirements for current operations (minimum required F.S. of 1.3), but does not meet the requirements for closure (minimum required F.S. of 1.5). However, the analysis also indicates that, due to the relatively steep 1.5H:1.0V downstream slope on the embankment, the Factor of Safety against shallow failures is only 1.1.

To mitigate this concern, KP recommended that a downstream cyclone sand or rockfill buttress be constructed to at least El. 935.5 m in fall 2000. The buttress would also serve to facilitate flattening of the oversteep slope to meet the closure stability requirements, when required.

Due to budget constraints, MPMC has indicated that the buttress will only be constructed this year if sufficiently warm weather conditions permit cycloning downstream after construction of the upstream berm. MPMC is instead planning on a rigorous inspection schedule to monitor for downstream instability, and to repair any surface sloughing as necessary. The inspections will involve visual inspections of the downstream face and crest, removing snow from the crest, as well as bi-weekly monitoring of survey monuments on the crest. Stockpiles

of cyclone sand and Zone T rockfill will be made readily available for any required repair work.

1.4 TAILINGS FACILITY OPERATION AND MAINTENANCE

As noted, MPMC has intensified cycloning operations along the upstream face of the Perimeter Embankment. Twelve separators on six stands are currently in operation. The stands are moved along the embankment such that just enough material is placed at each location to construct the upstream berm. Fill is being placed along about 25 m of embankment per day.

During a scheduled mill shut-down on September 19, MPMC relocated the reclaim barge approximately 200 m up the barge channel. Repairs to the tailings line above the T2 dropbox were also completed.

Due to concerns of wear in the tailings line above the dropbox, MPMC has fused additional sections of pipeline together to repair any sections of the tailings line as necessary. The extra pipe sections are from reclaim barge moves.

The seepage recycle pipeline has been reinstated at the Main Embankment Seepage Collection Pond. The pond is being pumped down as necessary.

1.5 SAFETY

No safety incidents were reported for the period.

SECTION 2.0 – CONSTRUCTION ACTIVITIES

2.1 EQUIPMENT

TCL used the following equipment over the reporting period:

- Excavators – 1 Hitachi EX 1100, 1 Cat 375, 1 Cat 322B
- Haul Trucks – 5 Cat 773's
- Dozers – 1 Cat D8R, 1 Cat D8N (rental), 1 Cat D6D
- Graders – 1 Cat 16G

- Compactors – 1 Cat CS583, 1 Cat CS563 (rental), 1 Cat 825G
- Water truck, service trucks, fuel trucks, forklift

Since completion of TCL construction activities, most of the equipment has not yet been demobilized and remains on site.

2.2 ACTIVITIES

The major construction activities for the reporting period are summarized below. Dayshift and nightshift crews were in operation during the TCL activities.

Main Embankment (TCL)

The Main Embankment Zones C, T and S have been raised to El. 942.5 m. The Zone F chimney drain has been constructed to 941.0 m, and will be extended as necessary during the next stage of construction by excavating down to the top of the drain.

TCL constructed a haul road into the southeast portion of Borrow Area No. 2 to access drier glacial till for the Zone S placement. This material was used for construction of both the Main and South Embankments, as well as for basin liner.

Basin liner was placed within the impoundment at the right abutment of the Main Embankment to cover weathered bedrock exposed during previous site preparation work. The liner consisted of three 150 mm thick lifts placed and compacted with a smooth drum vibratory roller, followed by a 300 mm thick frost protection layer spread with a bulldozer.

South Embankment (TCL)

Foundation preparation was completed for the South Embankment. Soft, wet material was graded off down to competent glacial till. Sub-excavation was carried out in three small areas to remove softer material where rainwater had ponded. The material was replaced with compacted glacial till. The entire foundation area was rolled with a smooth drum vibratory compactor followed by the Cat 825G.

Excavation for installation of foundation piezometer F2-PE2-01 encountered weathered volcanic bedrock below the embankment at 1.3 m depth.

Between September 23 and 26, the embankment Zone S was raised to El. 942.5 using compacted glacial till.

Perimeter Embankment (MPMC)

Cycloning for the upstream sand berm along the Perimeter Embankment has been completed along roughly 50% of the section between the north abutment and setting out point S6.

Rock Borrow

MPMC has drilled and blasted an additional 40,000 m³ of Zone T material in the rock borrow. The material will be additional inventory to be used in construction as necessary.

Miscellaneous

MPMC has removed the Polley Lake pipeline from within the Perimeter Embankment crest. The excavation was backfilled with compacted glacial till from Borrow Area No. 2.

MPMC excavated several test pits in the cyclone sand stockpile in Borrow Area No. 4 to confirm the suitability (moisture content) of the material for use in construction. The material was found to be suitable, extending in depth beyond the reach of the excavator.

During completion of the downstream rockfill at the right abutment of the Main Embankment, construction traffic broke and 'punched-up' a section of the upstream toe drain outlet / conveyance pipe. The damaged section was excavated and repaired.

SECTION 3.0 – KNIGHT PIESOLD ACTIVITIES

3.1 GENERAL

KP site activities over the reporting period have included the following:

- Inspection and documentation of construction activities.
- QA/QC collection and testing of Zone F, T, C, and S control and record samples.

- Field density testing of Zone S fills.
- Installation of Stage 3 piezometers, organizing piezometer leads.
- Ongoing discussions and correspondence with MPMC and KP Vancouver.
- Preparation of daily inspection reports and bi-weekly Progress Reports.
- Collection and review of embankment monitoring data.

3.2 LABORATORY TESTING

The following samples were collected and tested on site over the reporting period:

- Zone T record sample R/ZT-3-10
- Zone C record samples R/ZC-3-4 and 5
- Zone F control samples C/ZF-3-20 to 24
- Zone F record samples R/ZF-24 to 27

The results of the testing are provided on the summary Tables 3.1 to 3.4 and gradation plot Figures 3.1 to 3.4.

The results show that the Zone T and C record samples meet the specifications for particle size distribution.

The results for the Zone F control tests show that control samples C/ZF-3-20, 23, and 24 met the required gradation specifications, but that samples C/ZF-21 and 22 fell below the bottom of the coarse envelope. All of the record samples from this material meet the specifications, however. This may be due in part to the control samples being collected prior to the filter sand stockpile being blended with a bulldozer. MPMC also sourced and included a significant proportion of weathered material in the crush operations, and the record tests likely indicate some breakdown of the material during handling, placement and compaction.

Five record samples of Zone S material, R/ZS-3-1 to 5, were also collected over the reporting period. These samples have been sent to Materials Testing Services Ltd. in

Prince George, and are currently being analyzed for particle size distribution, laboratory compaction characteristics, moisture content, Atterberg Limits and Specific Gravity.

3.3 FIELD DENSITY TESTING

Field density tests with a nuclear gauge were carried out on the Zone S and basin liner fills placed at the Main and South Embankments. The purpose was to check that the fills met the required compaction specifications of 95% and 92% of Standard Proctor Maximum Dry Density for Zone S and basin liner, respectively. A total of approximately 200 tests were carried out and confirm that fill placement meets the design objectives.

SECTION 4.0 – EMBANKMENT MONITORING

Monitoring of tailings embankment instrumentation over the reporting period is discussed in the following sections.

4.1 VIBRATING WIRE PIEZOMETERS

Piezometer F2-PE2-01 was installed to 1.3 m depth in the foundation of the South Embankment. The trench for the piezometer lead was excavated to 1.0 m depth to the downstream toe of the embankment, and backfilled with compacted glacial till. Readings from the piezometer will be included in future monitoring records.

KP has worked on organizing the leads for the piezometers. The leads have been extended to more accessible locations and wired into panel boxes to make monitoring more efficient.

Piezometer readings were obtained on September 19 and 28, as well as on October 11. The results of the monitoring are shown on Figures 4.1 to 4.5, and are summarized below. Locations of the piezometers are shown on attached drawings.

Foundation Piezometers

The Main Embankment foundation piezometers have typically shown a slight decreasing trend in pore water pressure since the previously reported September 8 readings. The largest decreases have been about 0.4 m.

No substantial changes were noted in the Perimeter Embankment (Plane D) foundation piezometers.

Fill Piezometers

Most of the Main Embankment glacial till piezometers responded to construction of the overlying Stage 3 fills with increasing pore pressures. The largest total increase was 4.18 m at A2-PE2-03. Since completion of construction, most of these pore pressures have started to decrease again.

Piezometers installed in Zone T and Cyclone Sand zones of the embankment have shown no response to fill placement and remain at very low head, indicating free-draining conditions in these materials.

Drain Piezometers

All drain piezometers have remained static and at a very low head indicating that the drains are free-draining and functioning as designed.

Tailings Piezometers

Water levels at the tailings piezometers continue to mimic the pond level.

4.2 DRAIN FLOWS

MPMC has pumped down the Main Embankment Seepage Collection Pond and the drain outlets in the sump are exposed. A monitoring stand was installed in the sump.

Drain flows were measured on October 24. Several of the readings were higher than expected, possibly as a result of surface water inflows or due to the high pond level

causing water to back into the drains and saturate the drain trench backfill (the drains may not have time to discharge the excess water before the readings were taken). Additional monitoring is being undertaken to clarify the cause of these results

4.3 SURVEY MONUMENTS

Survey monuments are to be installed by MPMC on the Main Embankment crest at Monitoring Planes A, B, and C. Surveys of the monuments will be included in the Tailings Facility monitoring program to measure any embankment movements.

Additional survey monuments will be installed at three locations along the downstream edge of the Perimeter Embankment crest. These monuments are to be surveyed once every two weeks to check for any surface sloughing, as discussed in Section 1.3.

SECTION 5.0 – ONGOING ITEMS

The following items will be addressed during upcoming reporting periods:

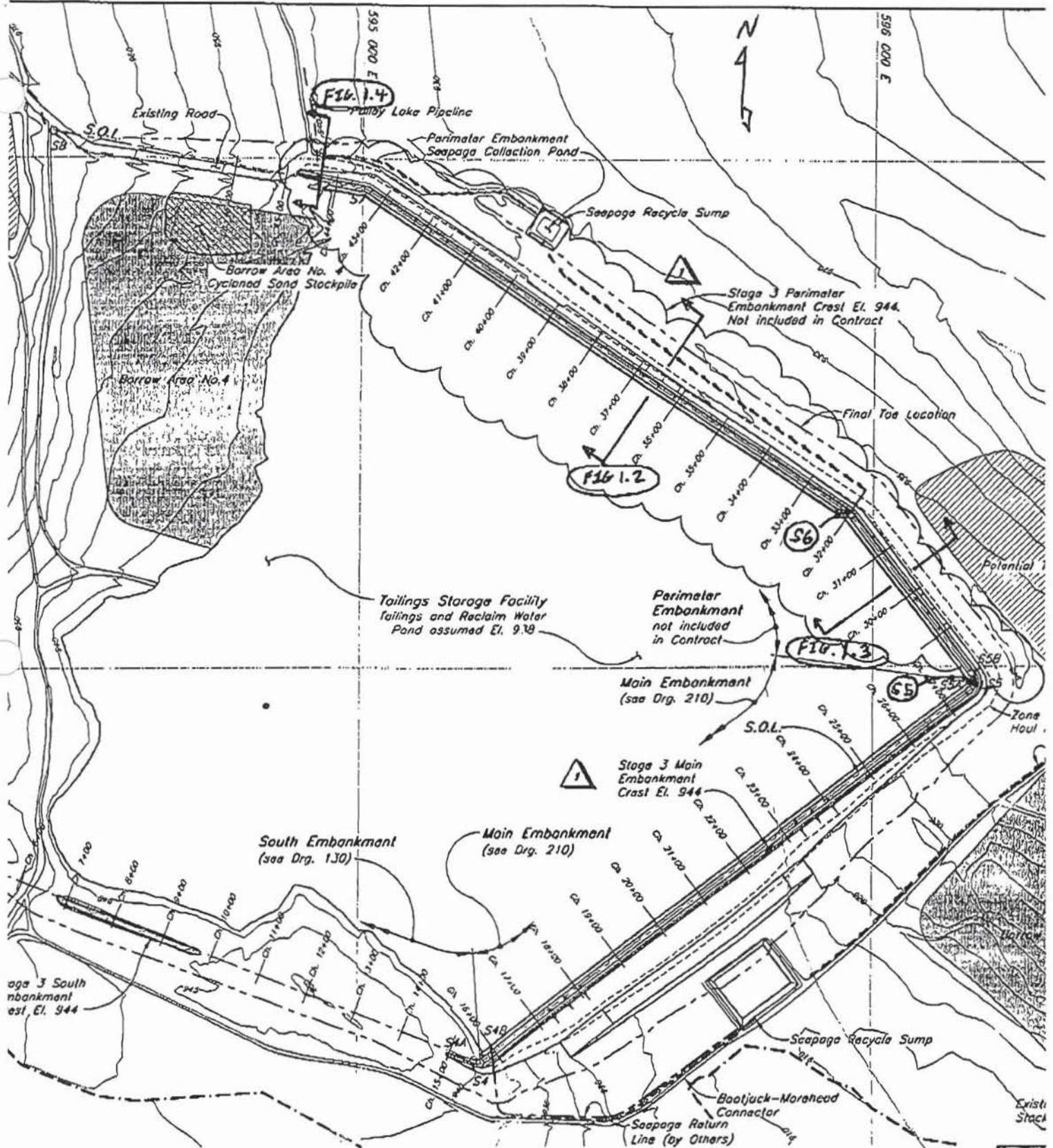
- MPMC and KP will continue to review the Perimeter Embankment construction scheduling.
- KP personnel will visit the site as necessary for construction inspections.

Submitted by:



Jeff Clarke
Knight Piesold Ltd.

Distribution: Eric Leneve, Don Parsons – MPMC
George Headley – MEMND
Ken Brouwer – KP Vancouver



NOTES

1. Topography of TSF generated from points and break lines sent from MPMC in July 1999. The topography outside the TSF area is from 1997 flyover.
2. Current size and location of potential and existing Borrow Areas and Topsoil Stockpiles are to be confirmed.

FIGURE 1.1

Scale 100 0 100 200 300 400 500 m

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
1	2JUN'00	ISSUED FOR CONSTRUCTION	MOB	TAM	CHK'D	APP'D	0	14APR'00	ISSUED FOR TENDER	MOB	NSD	JRK	KJB

REVISIONS 06/01 121'0N 91:21 00. 00/11

C6094748095

RECORDS 13 Page 78 of 438

KNOWLEDGE FILED

Knight Piésold Ltd.

CONSULTING ENGINEERS

Project: MT. PILEY - STAGE 3 CONSTRUCTION
 Calculations for: _____
 Calculations by: JDC
 Checked by: _____ Date: _____

Project No.: 11162/13
 Date: OCT. 20/00
 Sheet _____ of _____

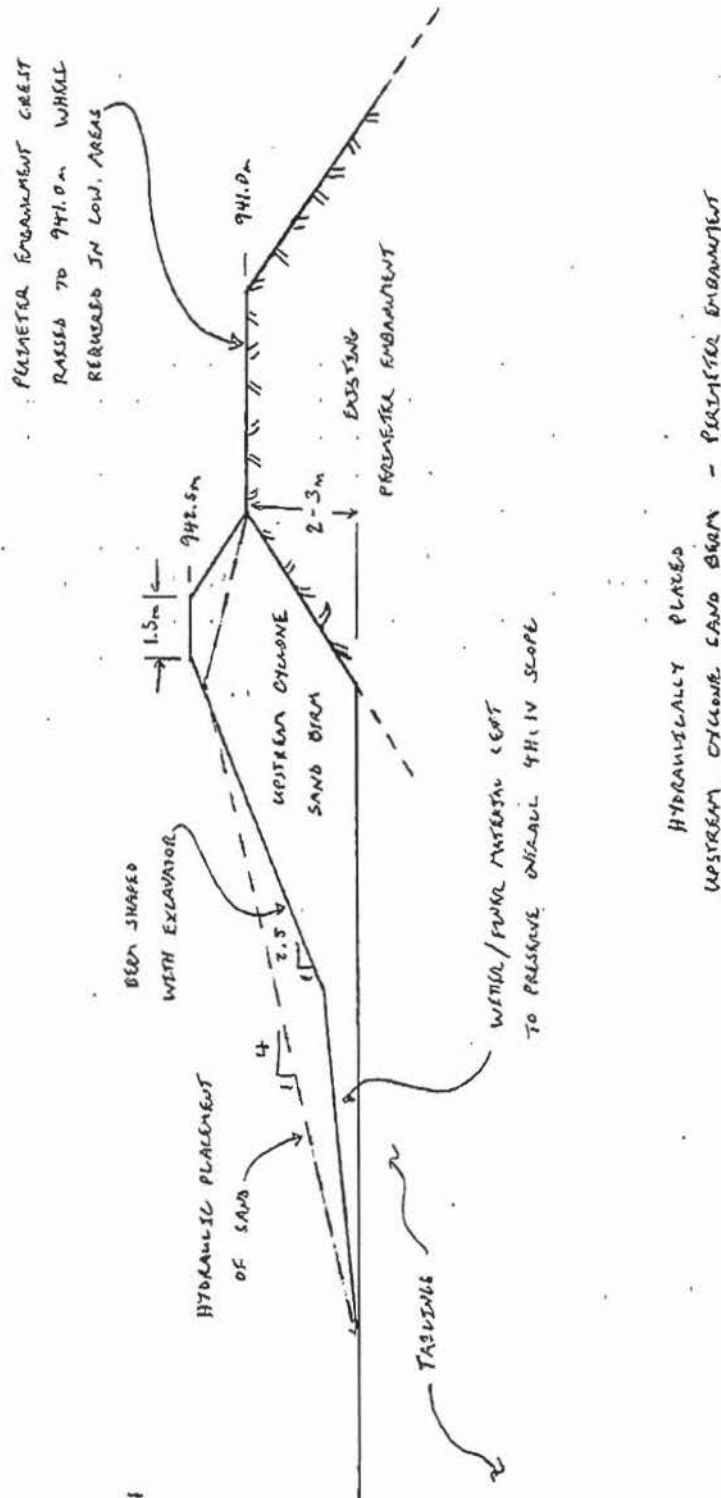


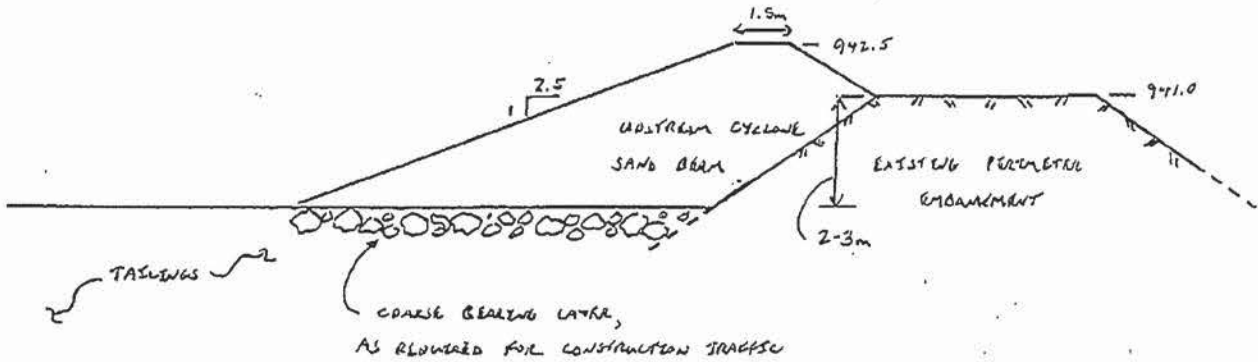
FIGURE 1.2

Knight Piésold Ltd.

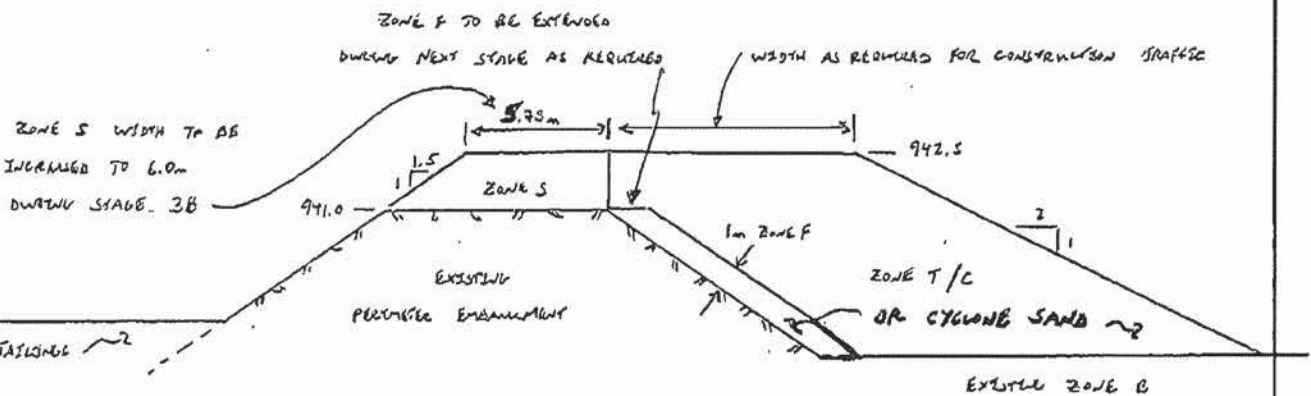
CONSULTING ENGINEERS

Project: MT. DODD - STAGE 3 CONSTRUCTION
 Calculations for: _____
 Calculations by: JDC
 Checked by: _____ Date: _____

Project No.: 11162/13
 Date: OCT. 20/00
 Sheet _____ of _____



A/ MECHANICALLY PLACED
UPSTREAM CYCLONE SAND BEAM



B/ DOWNSTREAM ROCKS

ALTERNATIVE OPTIONS FOR RAISING
OF PERIMETER EMBANKMENT BETWEEN S5 + S6

FIGURE 1.3

Knight Piésold Ltd.

CONSULTING ENGINEERS

Project: MT. POWERY - STAGE 3 CONSTRUCTIONProject No.: 11162/13

Calculations for: _____

Date: OCT. 20/00Calculations by: JAC

Sheet _____ of _____

Checked by: _____ Date: _____

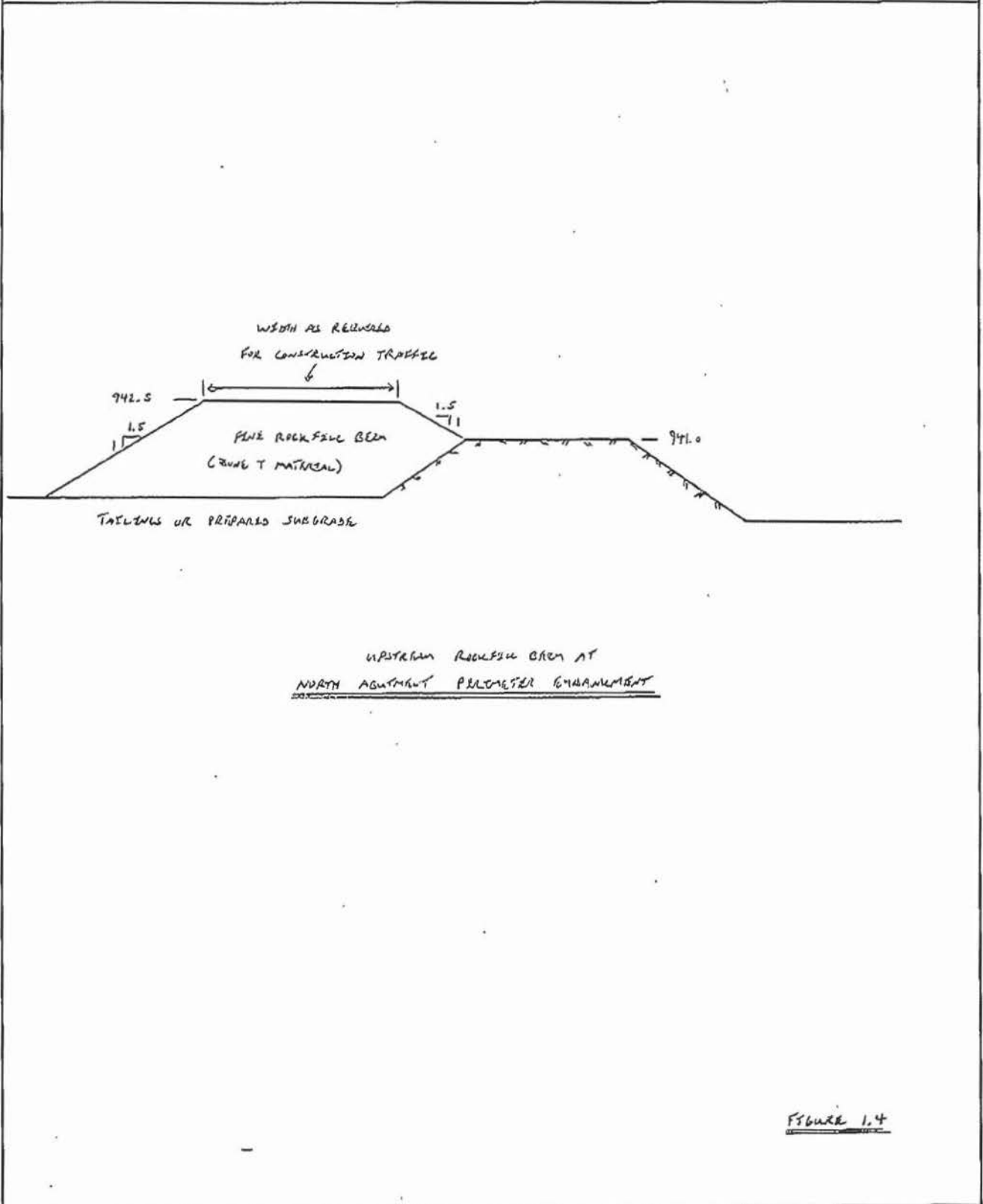


Figure 1.4

TABLE 3.1

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY

STAGE 3 CONSTRUCTION
ZONE T RECORD TESTS - SUMMARY SHEET

C:\Mt. Polley - Stage 3\Lab Testing\Zone T\Zone T Summary.xls\Record Data

Date Printed

13-Oct-00

Date Sampled	Sample No.	Location	C3 (Particle Size Distribution)			
			Cobbles	Gravel	Sand	Silt/Clay
			% > 3 inch	% 3 inch to #4	% #4 to #200	% < #200
3-Jun-00	R/ZT-3-1	Zone T Fill	20.0	61.5	15.7	2.8
16-Jul-00	R/ZT-3-2	Zone T Fill	20.0	58.7	16.2	5.1
25-Jul-00	R/ZT-3-3	Zone T Fill	13.9	66.1	18.4	1.6
27-Jul-00	R/ZT-3-4	Zone T Fill	22.0	65.0	12.5	0.5
22-Aug-00	R/ZT-3-5	Zone T Fill, Chainage: 23+00, Elevation: 929 m	37.2	36.1	24.9	1.8
20-Aug-00	R/ZT-3-6	Zone T Fill, Chainage: 19+50, Elevation: 929 m	34.5	40.0	24.0	1.5
29-Aug-00	R/ZT-3-7	Zone T Fill, Chainage: 20+00, Elevation: 932 m	5.0	57.2	36.0	1.8
9-Sep-00	R/ZT-3-8	Zone T Fill, Chainage : 18+00, Elevation: 936 m	20.0	59.7	18.3	2.0
12-Sep-00	R/ZT-3-9	Zone T Fill, Chainage: 26+00, Elevation: 940 m	10.0	62.7	25.5	1.8
21-Sep-00	R/ZT-3-10	Zone T Fill, Chainage: 26+00, Elevation: 940 m	20.0	52.6	26.6	0.8
MEAN			20.3	56.0	21.8	2.0
MEDIAN			20.0	59.2	21.2	1.8
MAXIMUM			37.2	66.1	36.0	5.1
MINIMUM			5.0	36.1	12.5	0.5

Notes:

1) C3 (Particle Size Distribution) - ASTM D422

TABLE 3.2

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY

STAGE 3 CONSTRUCTION
ZONE C RECORD TESTS - SUMMARY SHEET

C:\Mt. Polley - Stage 3\Lab Testing\Zone C\Zone C Summary.xls\Record Summary

Date Printed

13-Oct-00

Date Sampled	Sample No.	Location	C3 (Particle Size Distribution)			
			Cobbles	Gravel	Sand	Silt/Clay
			% > 3 inch	% 3 inch to #4	% #4 to #200	% < #200
2-Aug-00	R/ZC-3-1	Zone C Fill	56.4	34.7	8.4	0.5
21-Aug-00	R/ZC-3-2	Zone C Fill, Chainage: 22+55, Elevation 928.3	50.6	36.3	12.8	0.3
24-Aug-00	R/ZC-3-3	Zone C Fill, Chainage: 22+40, Elevation 929m	48.6	35.5	15.3	0.5
17-Sep-00	R/ZC-3-4	Zone C Fill, Chainage: 17+00, Elevation 938m	50.0	35.8	13.7	0.5
23-Sep-00	R/ZC-3-5	Zone C Fill, Chainage: 16+00, Elevation 941m	50.0	32.6	16.7	0.7
MEAN			51.1	35.0	13.4	0.5
MEDIAN			50.0	35.5	13.7	0.5
MAXIMUM			56.4	36.3	16.7	0.7
MINIMUM			48.6	32.6	8.4	0.3

Notes:

1) C3 (Particle Size Distribution) - ASTM D422

TABLE 3.4

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY

STAGE 3 CONSTRUCTION
ZONE F RECORD TESTS - SUMMARY SHEET

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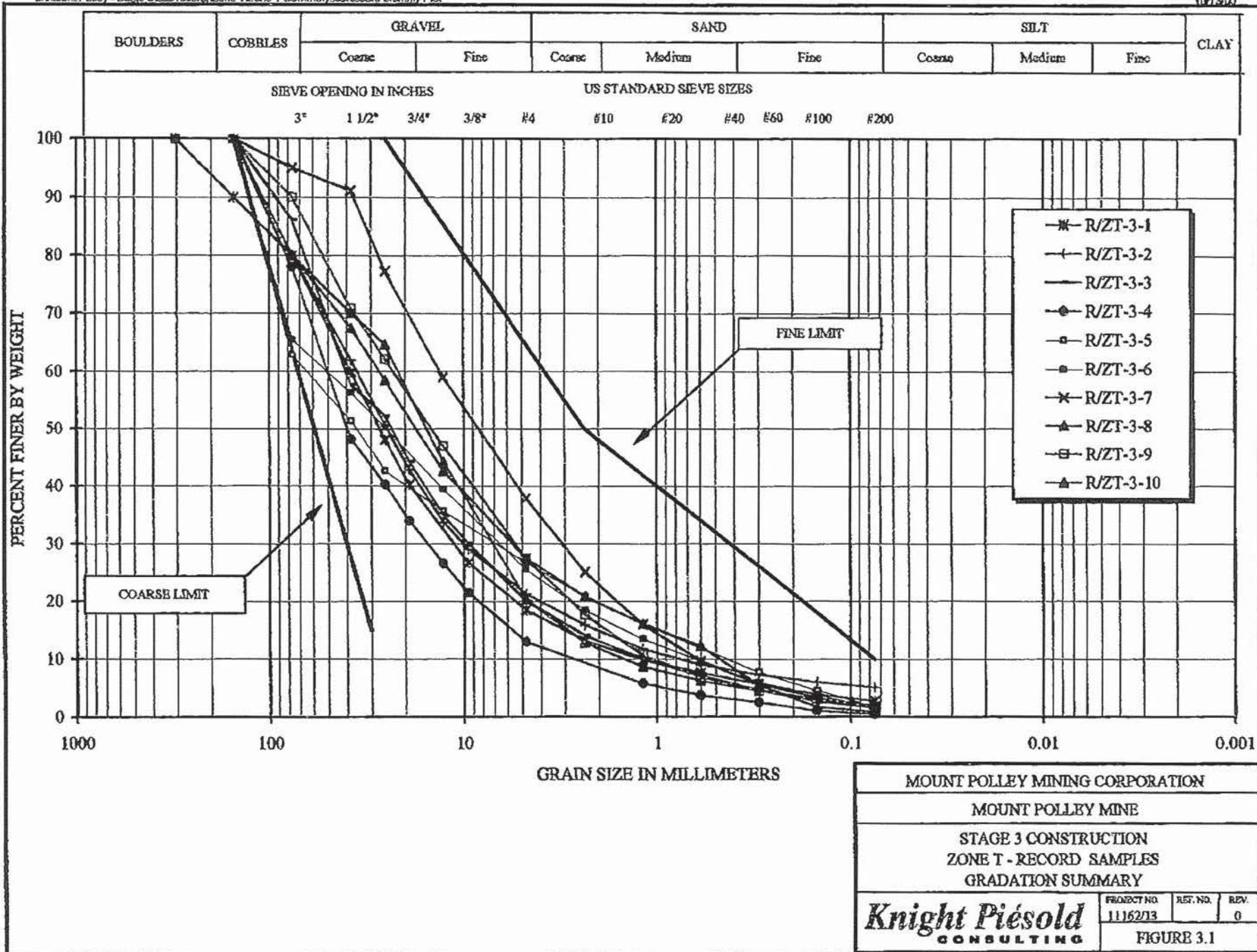
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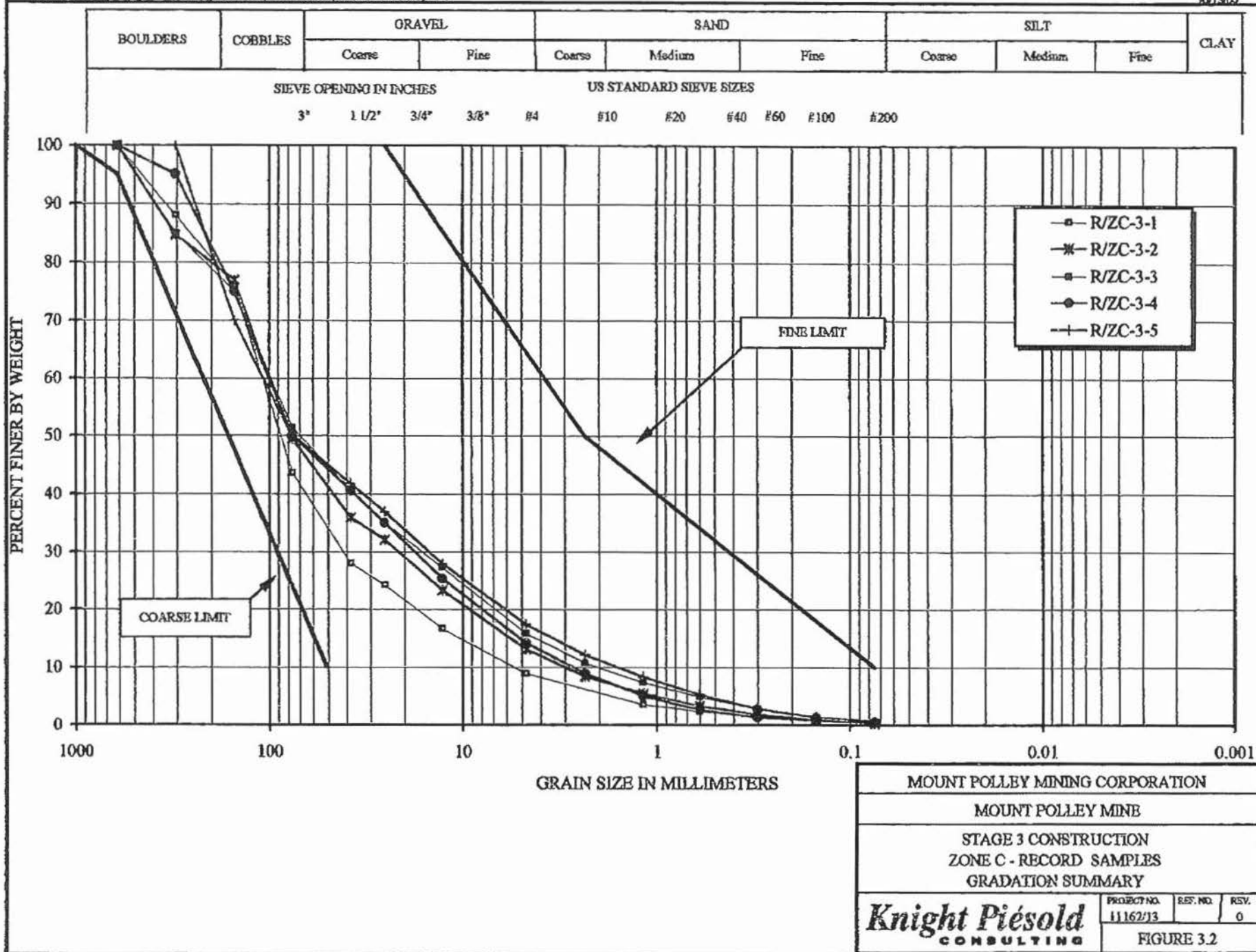
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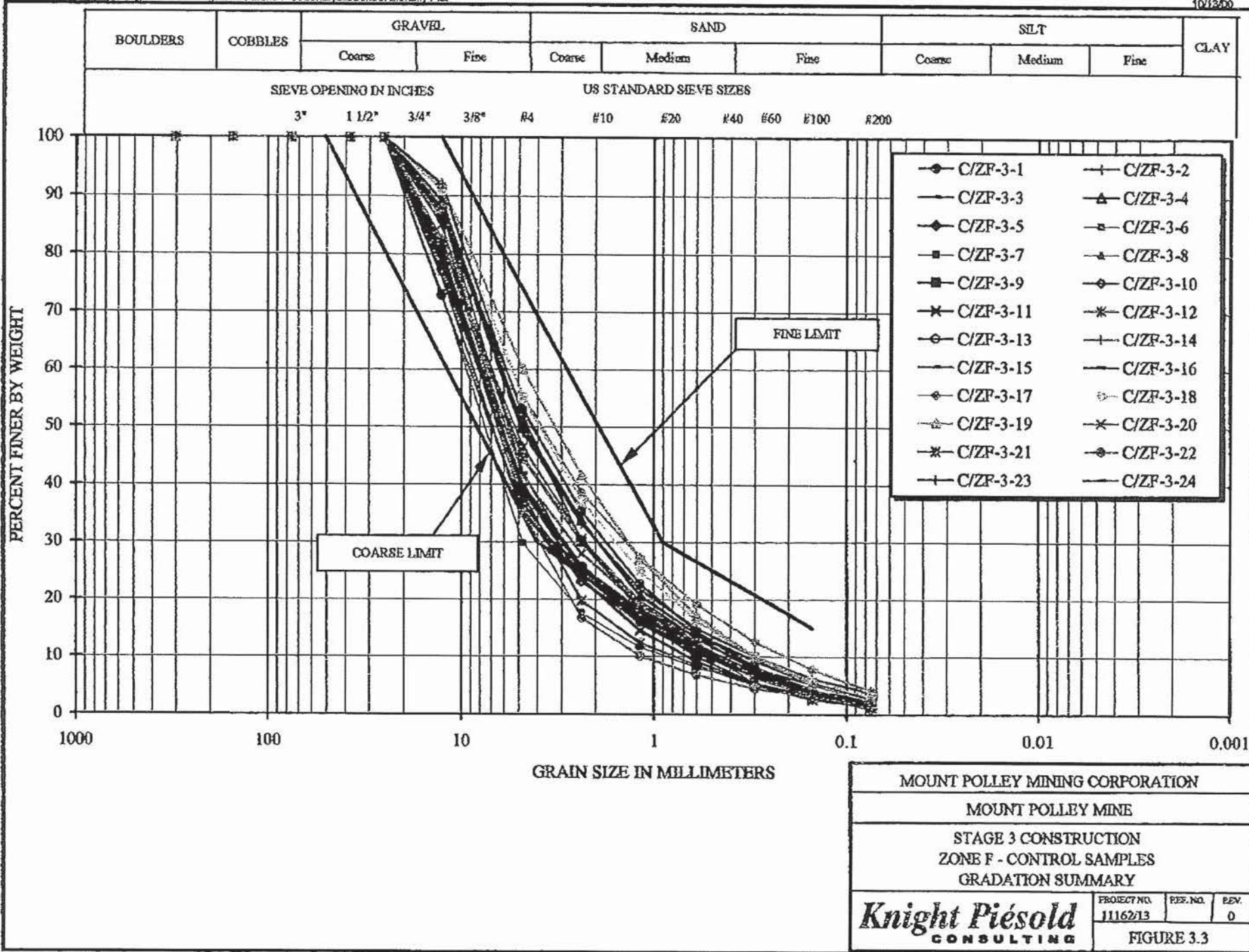
Date Sampled	Sample No.	Location	Chainage	Elevation	C3 (Particle Size Distribution)			
					Cobbles	Gravel	Sand	Silt/Clay
					% > 3 inch	% 3 inch to #4	% #4 to #200	% < #200
19-Aug-00	R/ZF-3-1	Zone F Fill	26+10	935 m	0.0	48.2	48.7	3.1
20-Aug-00	R/ZF-3-2	Zone F Fill	17+10	935 m	0.0	50.0	45.8	4.2
21-Aug-00	R/ZF-3-3	Zone F Fill	20+00	933 m	0.0	53.4	43.6	3.0
23-Aug-00	R/ZF-3-4	Zone F Fill	20+05	935 m	0.0	46.3	50.4	3.3
24-Aug-00	R/ZF-3-5	Zone F Fill	25+50	935 m	0.0	57.9	39.0	3.1
26-Aug-00	R/ZF-3-6	Zone F Fill	19+00	935 m	0.0	52.2	44.1	3.7
26-Aug-00	R/ZF-3-7	Zone F Fill	21+60	935 m	0.0	53.6	45.7	0.7
27-Aug-00	R/ZF-3-8	Zone F Fill	22+00	935 m	0.0	58.0	39.6	2.4
28-Aug-00	R/ZF-3-9	Zone F Fill	24+50	937 m	0.0	54.5	41.7	3.8
29-Aug-00	R/ZF-3-10	Zone F Fill	23+40	936 m	0.0	61.7	35.6	2.7
30-Aug-00	R/ZF-3-11	Zone F Fill	21+80	937 m	0.0	51.3	45.1	3.6
6-Sep-00	R/ZF-3-12	Zone F Fill	16+20	940 m	0.0	61.0	36.9	2.1
7-Sep-00	R/ZF-3-13	Zone F Fill	21+30	940 m	0.0	62.1	35.5	2.3
8-Sep-00	R/ZF-3-14	Zone F Fill	16+40	939 m	0.0	56.8	41.0	2.1
8-Sep-00	R/ZF-3-15	Zone F Fill	17+50	937 m	0.0	60.3	37.4	2.3
8-Sep-00	R/ZF-3-16	Zone F Fill	18+50	937 m	0.0	68.5	29.1	2.4
9-Sep-00	R/ZF-3-17	Zone F Fill	21+40	937 m	0.0	53.4	43.1	3.4
9-Sep-00	R/ZF-3-18	Zone F Fill	22+20	937 m	0.0	54.7	42.9	2.4
10-Sep-00	R/ZF-3-19	Zone F Fill	25+50	938 m	0.0	55.4	40.9	3.7
10-Sep-00	R/ZF-3-20	Zone F Fill	22+80	937 m	0.0	56.4	41.4	2.2
12-Sep-00	R/ZF-3-21	Zone F Fill	22+00	939 m	0.0	48.5	49.1	2.4
14-Sep-00	R/ZF-3-22	Zone F Fill	19+00	939 m	0.0	46.3	50.4	3.3
14-Sep-00	R/ZF-3-23	Zone F Fill	17+50	939 m	0.0	50.3	46.9	2.8
19-Sep-00	R/ZF-3-24	Zone F Fill	26+20	941 m	0.0	51.7	46.1	2.1
20-Sep-00	R/ZF-3-25	Zone F Fill	20+60	941 m	0.0	45.8	52.5	1.7
21-Sep-00	R/ZF-3-26	Zone F Fill	21+20	941 m	0.0	55.9	39.3	4.8
23-Sep-00	R/ZF-3-27	Zone F Fill	18+80	941 m	0.0	56.5	41.1	2.3
				MEAN	0.0	54.5	42.7	2.8
				MEDIAN	0.0	54.5	42.9	2.7
				MAXIMUM	0.0	68.5	52.5	4.8
				MINIMUM	0.0	45.8	29.1	0.7

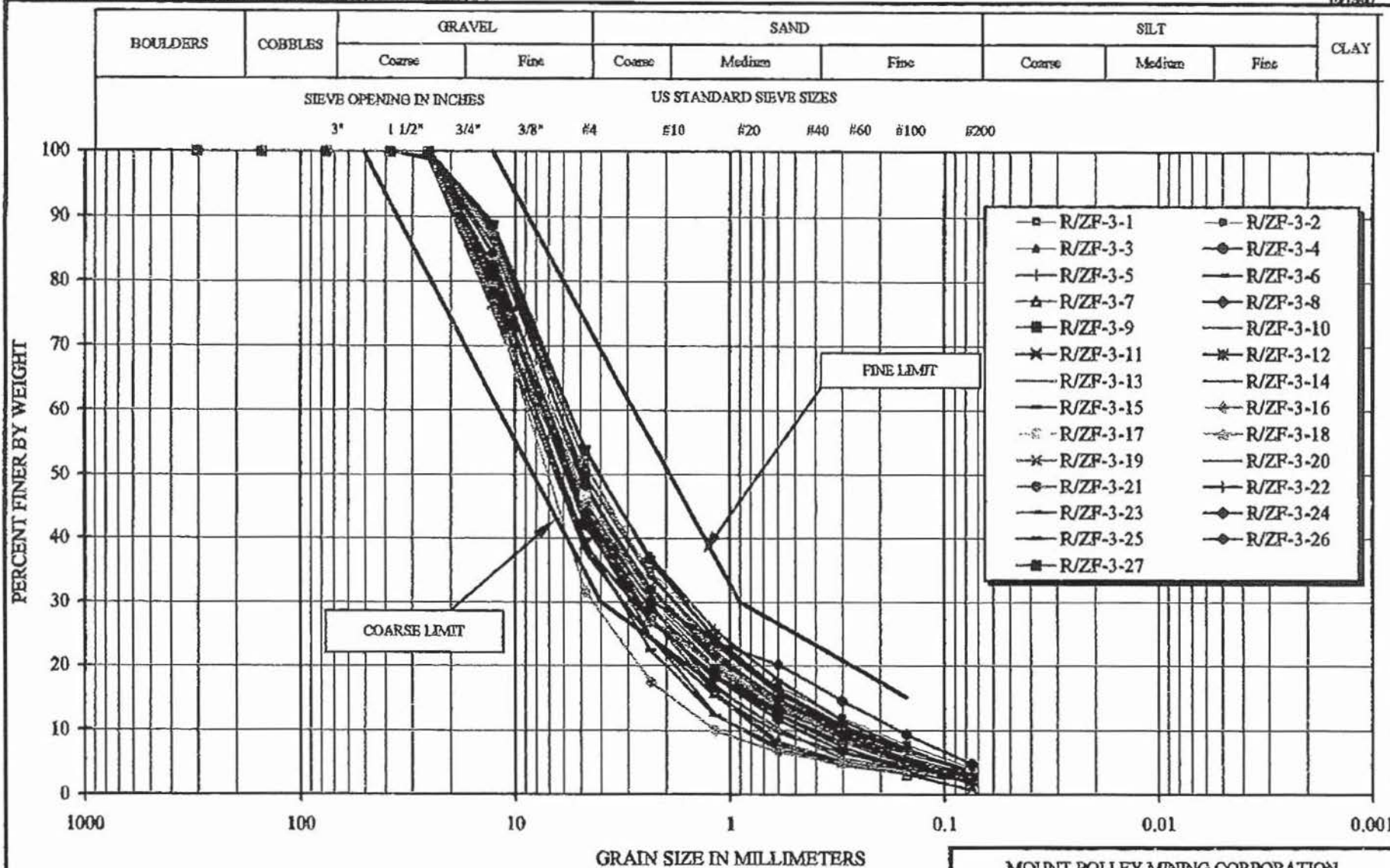
Notes:

1) C3 (Particle Size Distribution) - ASTM D422









MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

STAGE 3 CONSTRUCTION
ZONE F - RECORD SAMPLES
GRADATION SUMMARY

Knight Piésold
CONSULTING

PROJECT NO.	REV. NO.	REV.
11162/13		0

FIGURE 3.4

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE A PIEZOMETERS

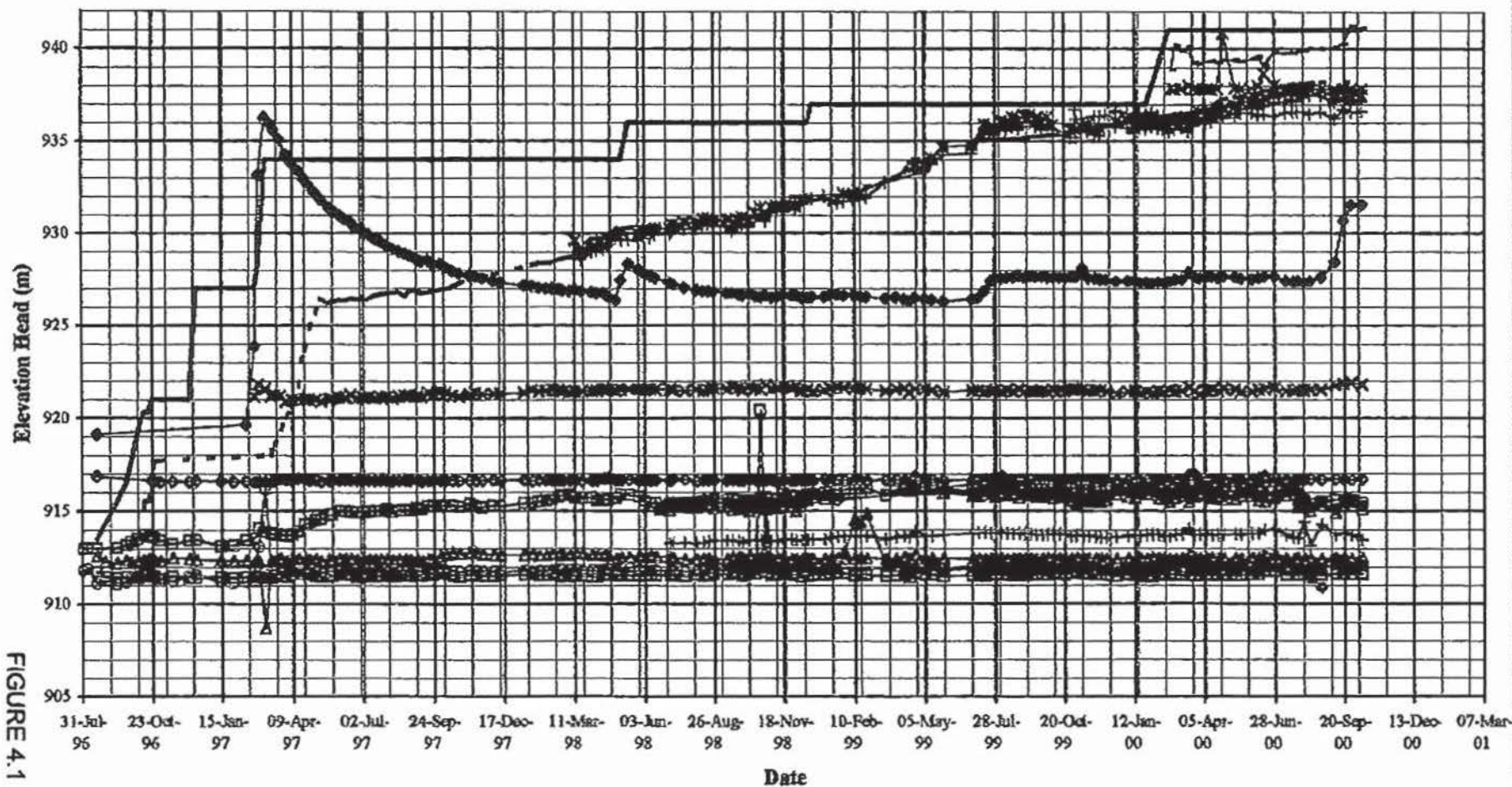
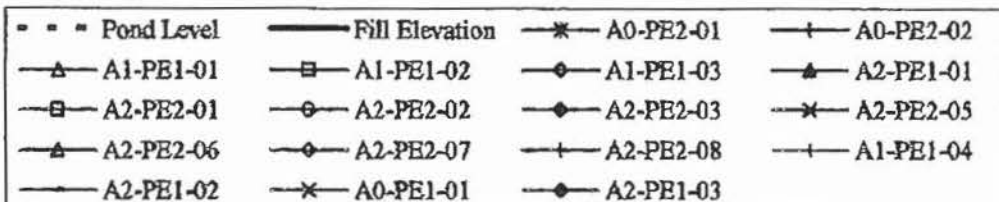


FIGURE 4.1

KNIGHT PIESOLD
CONSULTING

NC/47 121.0M 02:21 NO. 00/11

CANON/45CN

RECORDS 13 Page 89 of 128
JUN 21 1999

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE B PIEZOMETERS

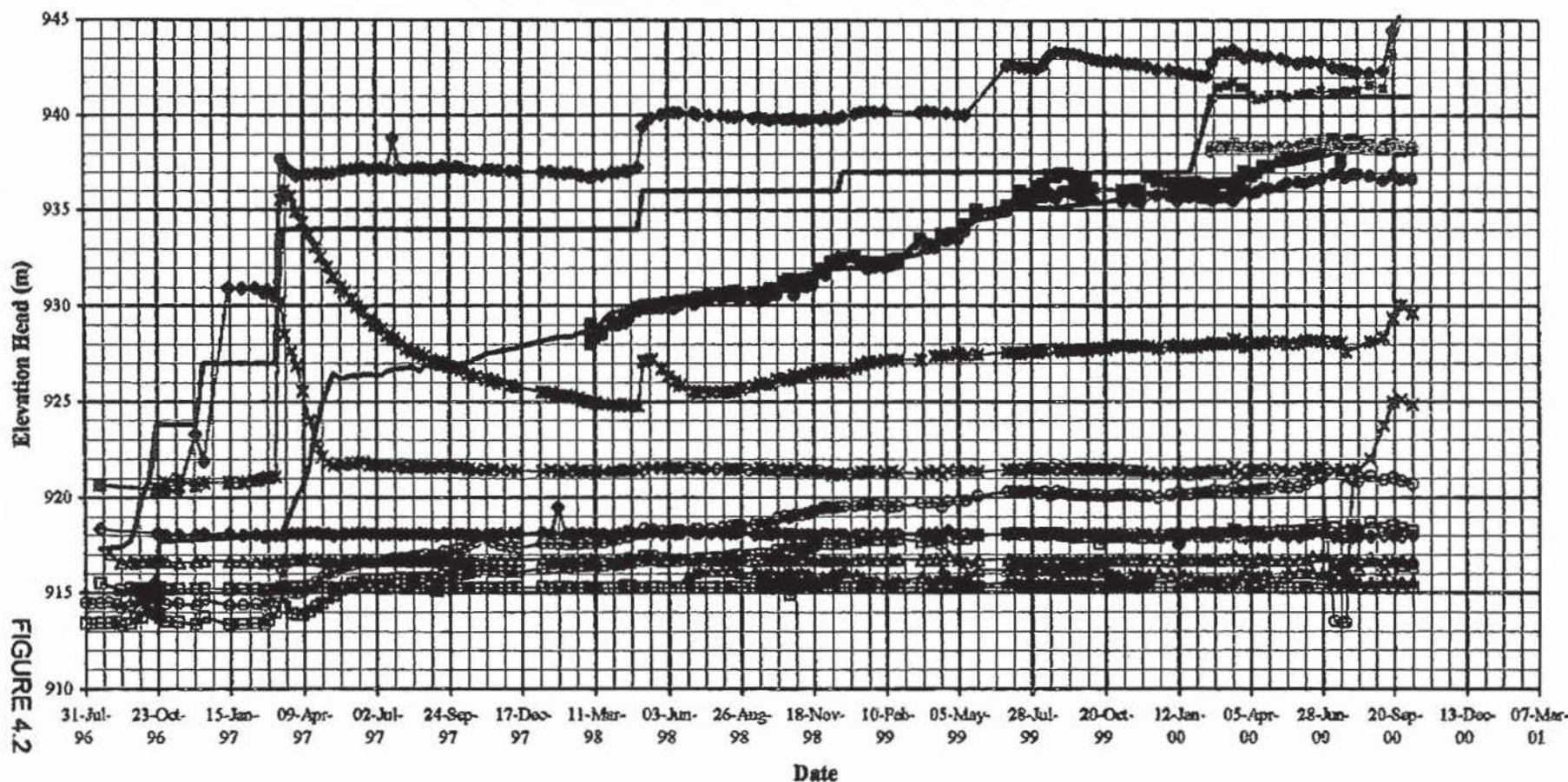
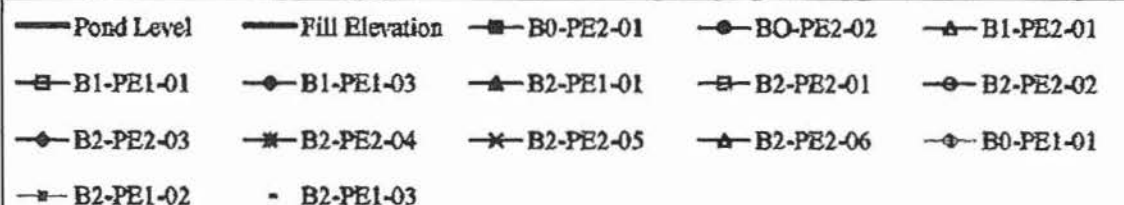


FIGURE 4.2

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE C PIEZOMETERS

KNIGHT PIESOLD
CONSULTING

— Pond Level	— Fill Elevation	— C0-PE2-01
— C0-PE2-02	— C1-PE1-01	— C1-PE1-02
— C1-PE1-04	— C2-PE1-01	— C2-PE2-01
— C2-PE2-02	— C2-PE2-03	— C2-PE2-05
— C2-PE2-06	— C2-PE2-07	— C2-PE2-08
— C0-PE1-01	— C2-PE1-02	— C2-PE1-03

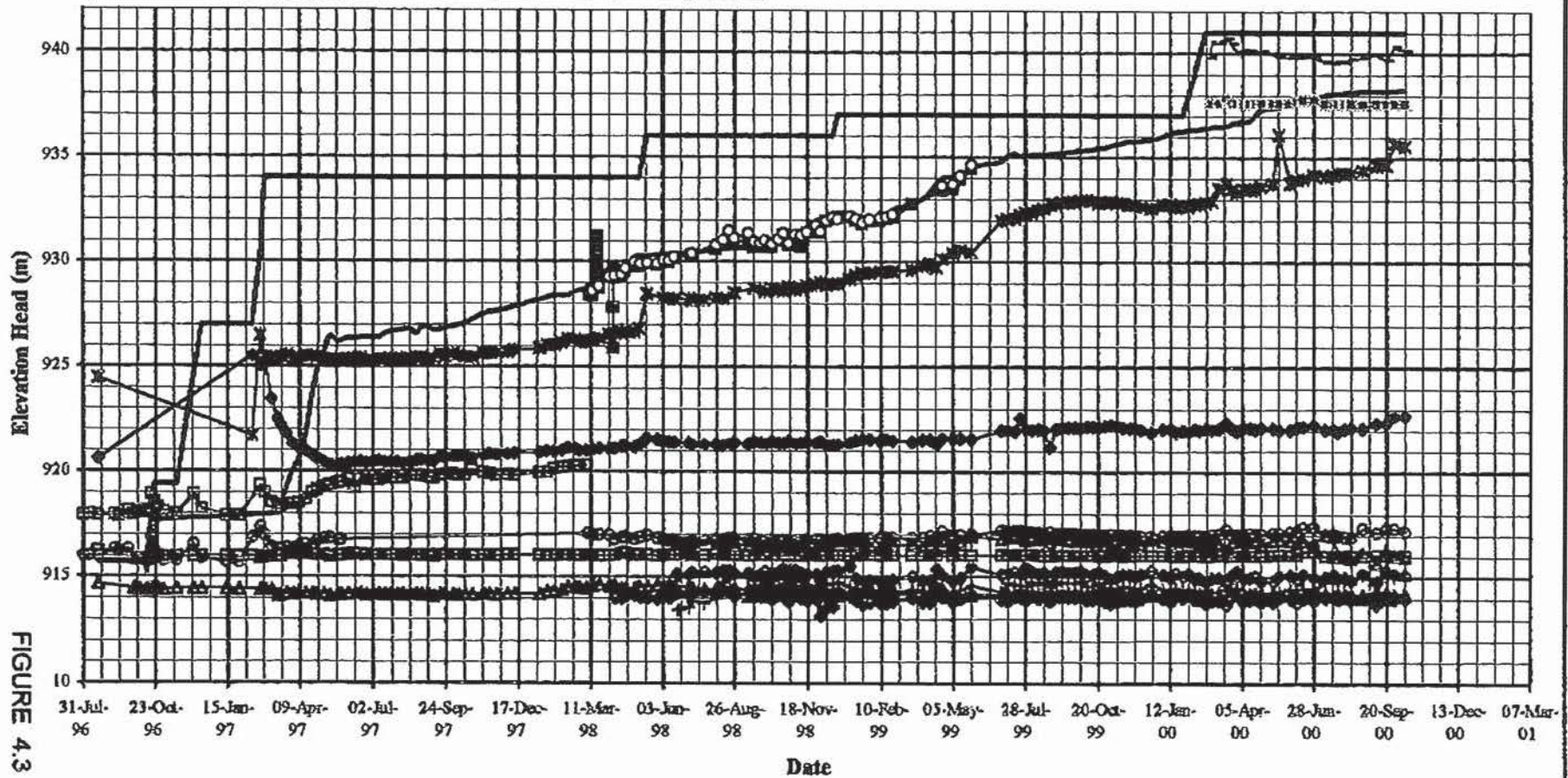


FIGURE 4.3

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE D PIEZOMETERS

KNIGHT PIESOLD
CONSULTING

— Pond Level — Fill Elevation □ D1-PE1-02
 ▲ D2-PE1-01 ◆ D2-PE2-01 □ D2-PE2-02

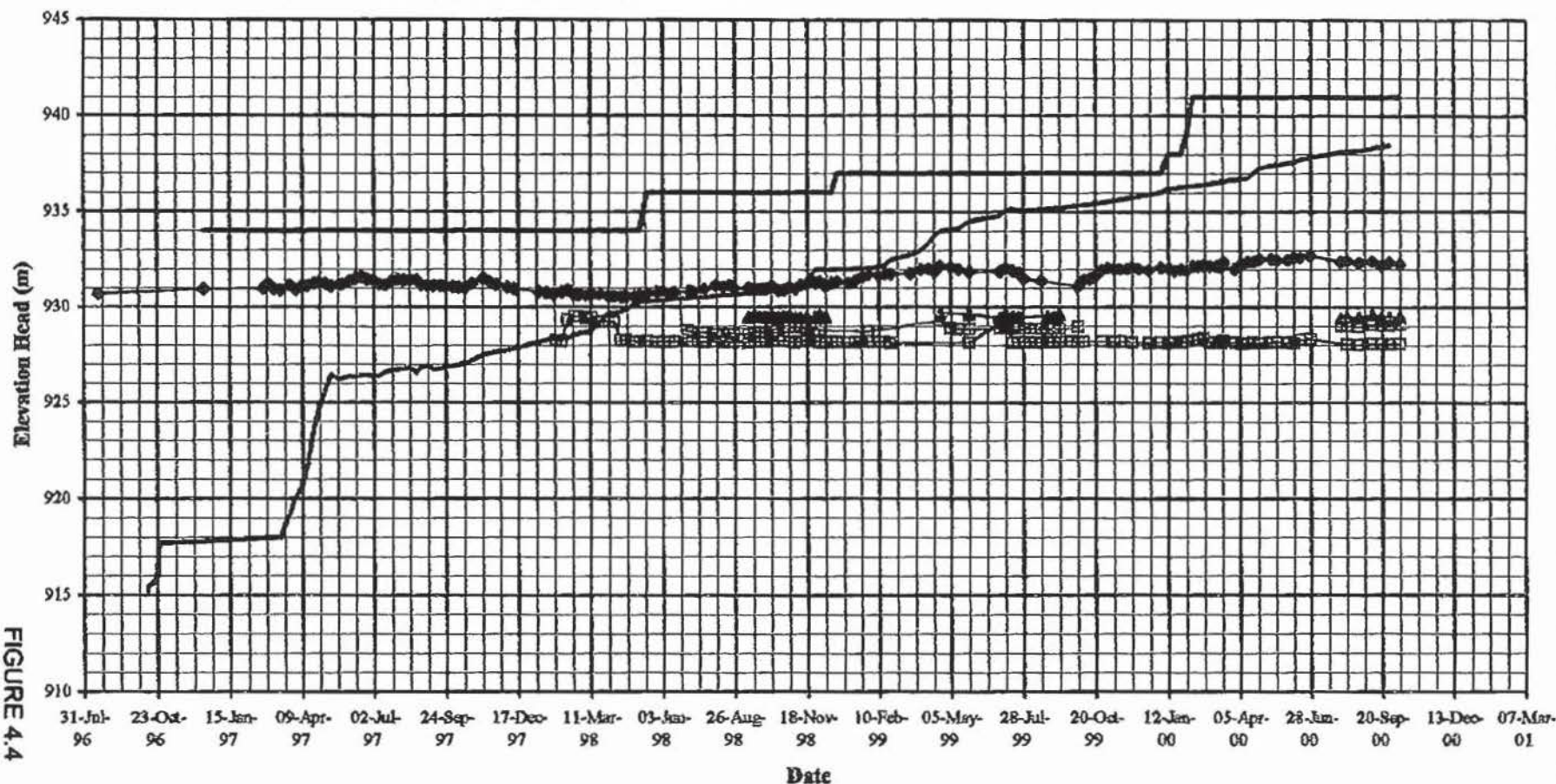


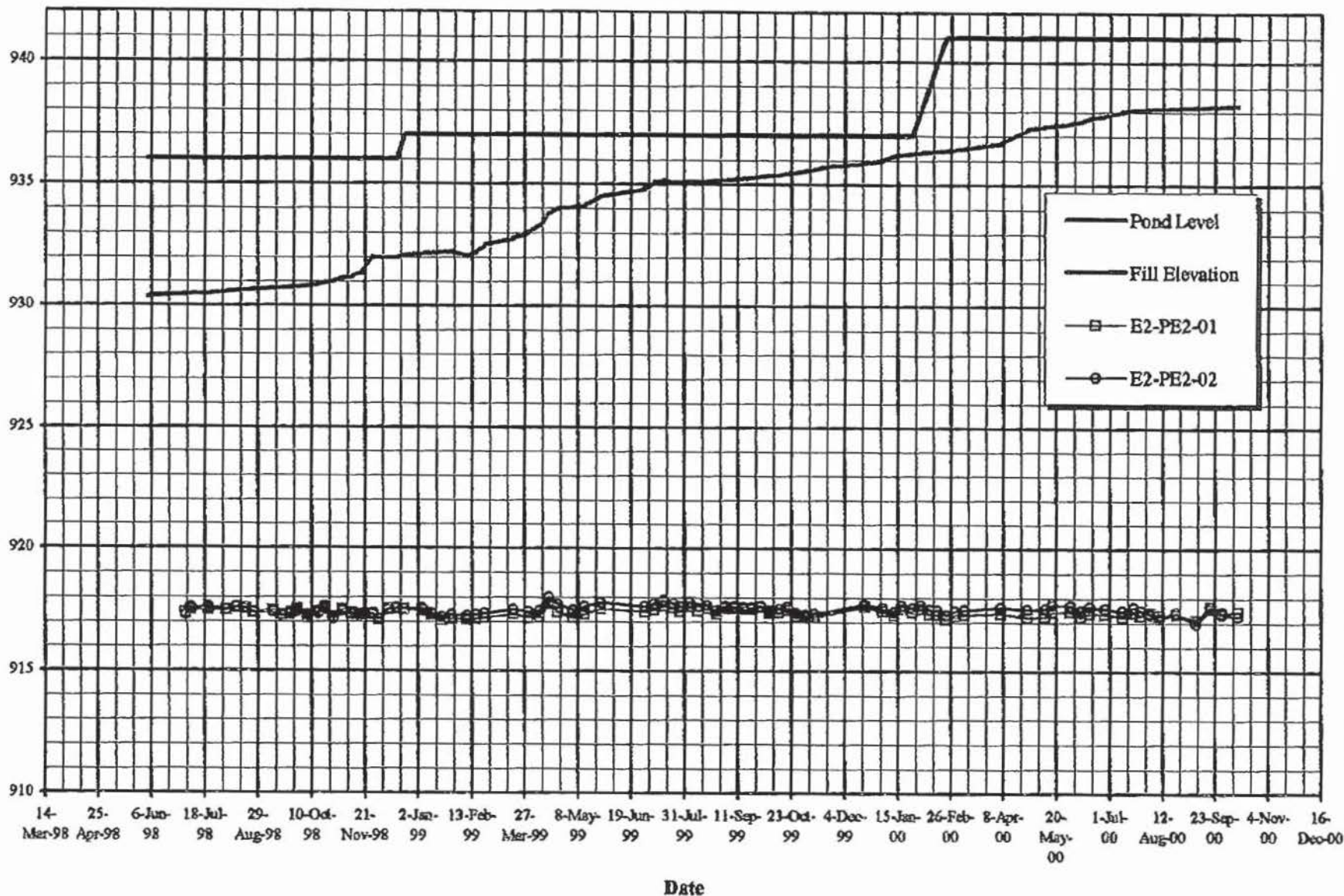
FIGURE 4.4

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE E PIEZOMETERS

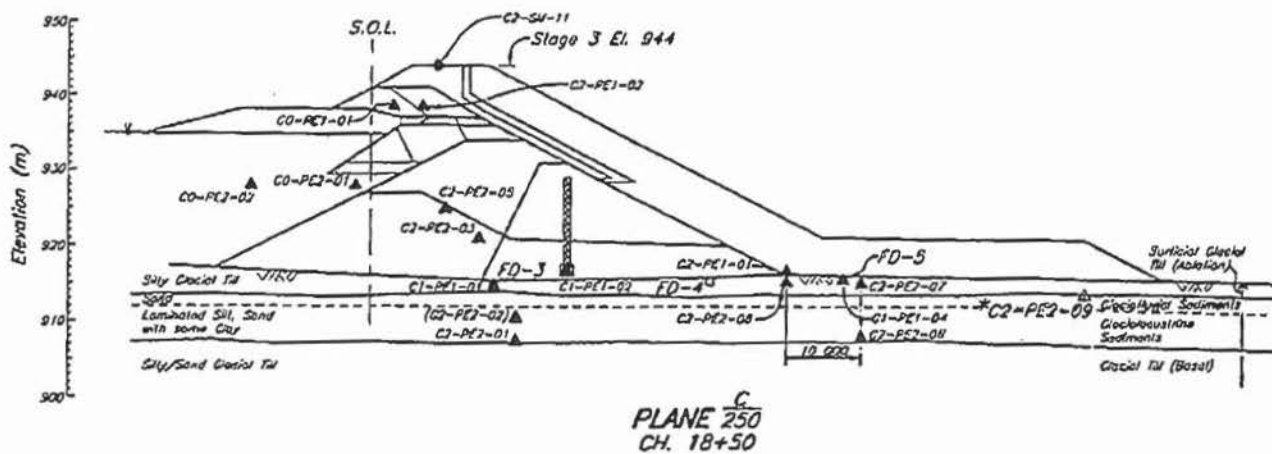
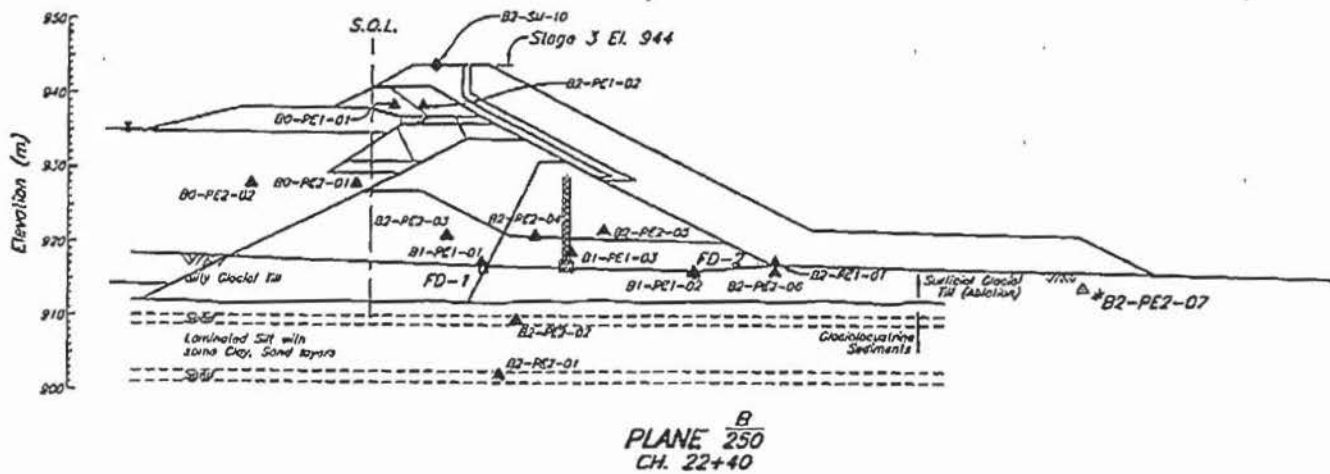
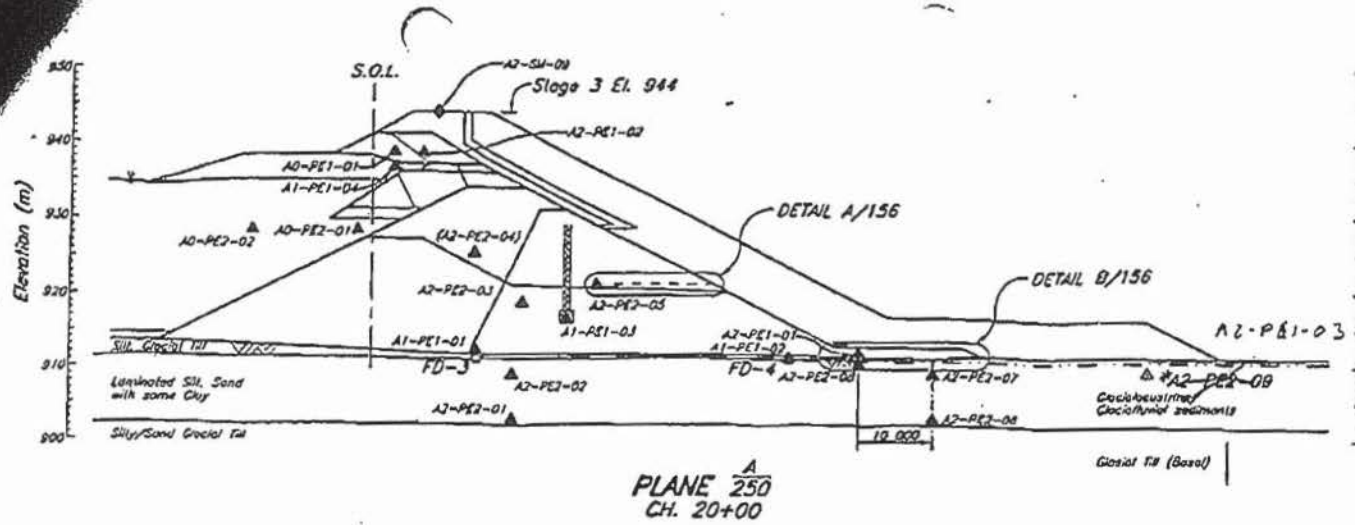
KNIGHT PIESOLD
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Elevation Head (m)

FIGURE 4.5



Date

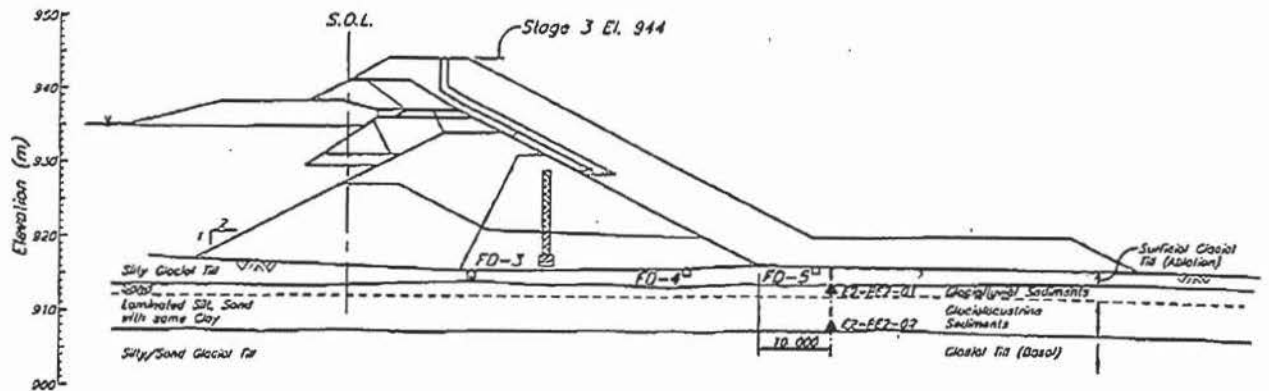


INSTRUMENTATION - SECTIONS 2 OF 2

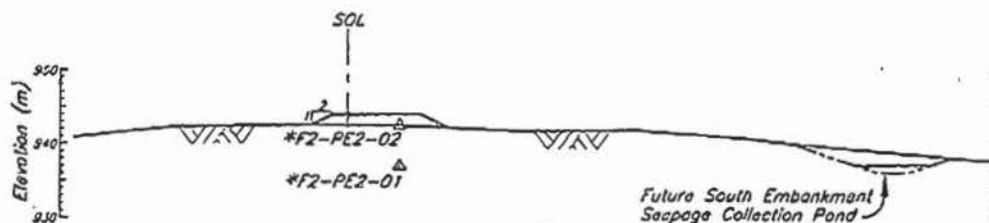
INSTRUMENTATION - SUMMARY OF INSTALLATION & TYP. DETAILS

INSTRUMENTATION - PLAN

DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED	REV.	DATE	DESCRIPTION
DRAWINGS			REVISIONS							REVISIONS



PLANE $\frac{E}{250}$
CH. 17+60



PLANE $\frac{F}{254}$
CH. 7+19

258	TSF - STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION SUMMARY OF INSTALLATION & TYPICAL DETAILS
254	TSF - STAGE 3 TAILINGS EMBANKMENT - SOUTH EMBANKMENT - INSTRUMENTATION PLAN
250	TSF - STAGE 3 TAILINGS EMBANKMENT - MAIN EMBANKMENT - INSTRUMENTATION PLAN
130	TSF - STAGE 3 SOUTH EMBANKMENT - PLAN AND SECTION
215	TSF - STAGE 3 MAIN EMBANKMENT - SECTIONS AND DETAILS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK
------	------	-------------	--------	-------	-------

REFERENCE DRAWINGS

REVISIONS

CZ
9/01/01

→ Ede

Knight Piésold
CONSULTING

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 1400 - 750 West Pender St Fax: +1 (604) 685 -0147
 Vancouver, BC V6C 2T8 Fax: +1 (604) 687-2203
 CANADA www.knightpiésold.com

DATE: 05 January, 2001 FILE NO.: 11162/13.01
 TIME: REF NO.: 0/2934
 OPERATOR: PAGES: 1 of 24
 SENDER: Sarah Griffiths APPROVED: *RJB*

TO: MPMC FAX: (250) 790-2268
 ATTN: Don Parsons, Eric Leneve, Greg Smyth
 CC: George Headley - MEMD 250-952-0481
 SUBJECT: Mount Polley Stage 3A

Please find following Progress Report No. 7.

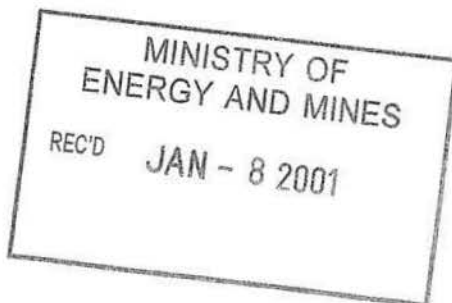
Regards,

Sarah Griffiths
 Sarah Griffiths.

Phoned

Sarah Griffiths 9/01/01.

- info sent info requested.



MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT

TAILINGS STORAGE FACILITY
STAGE 3 CONSTRUCTION

PROGRESS REPORT NO. 7 – November 24 to December 6, 2000

SECTION 1.0 –GENERAL

Construction of the Stage 3a raise for the Tailings Storage Facility Perimeter Embankment has been on-going since the last reporting period (October 24, 2000). MPMC continued construction of the upstream cycloned sand berm along the north 800m of the embankment until late November when freezing conditions made further cycloning impractical.

Over this reporting period the downstream portion of the embankment was raised along the south 400m using filter sand and Zones T and C rockfill. The embankment was completed to the target elevation of 942.5 m on December 6.

1.1 PERSONNEL

Mount Polley Mining Corporation (MPMC) management personnel overseeing the Stage 3 work are as follows:

Eric Leneve, Tailings Coordinator
Don Parsons, Mine Superintendent

The following Knight Piesold Ltd. (KP) representatives were on site during the reporting period:

Sarah Griffiths, Site Engineer – Arrived on site November 24, left site December 6.

1.2 WEATHER

Weather conditions over the period were variable, with a mix of sun and clouds and occasional periods of light snow. Temperatures ranged from about -10°C to +1°C.

Work was delayed November 24 and December 2 due to heavy snowfall.

1.3 DESIGN DEVELOPMENTS

Options for construction of the Perimeter Embankment were discussed in detail in Progress Report No. 6.

Cycloned sand has been hydraulically placed along the north 800m of the embankment between Setting Out Points S6 and S7. The sand will be mechanically shaped and compacted into the approximate configuration shown on Figure 1.1 to provide the necessary 1.0m freeboard for wave run-up.

*Where are
the
Setting out
pts on
plan?*

Along the south 400m, between Setting Out Points S5 and S6, MPMC has provided the required freeboard by downstream placement of filter sand and rockfill to the configuration shown on Figure 1.2.

A transition will be required between the upstream cyclone sand berm and downstream rock fill, and may consist of a temporary rock or sand berm constructed across the crest and between the fills to El. 942.5. The berm would be removed during the next stage of construction.

*upstream?
more info
required*

MPMC is currently preparing for till placement to raise the low sections of the Perimeter Embankment core zone to the required El. 941.0m.

1.4 TAILINGS FACILITY OPERATION AND MAINTENANCE

Prior to construction between S5 and S6 on the Perimeter Embankment, the tailings were being discharged from the beach in this area. During construction, the tailings were discharged from the north end of the tailings facility. Work to relocate the pipeline and begin discharging near the south end of the facility was ongoing.

1.5 SAFETY

No safety incidents were reported for the period.

SECTION 2.0 – CONSTRUCTION ACTIVITIES

2.1 EQUIPMENT

MPMC used the following equipment over the reporting period:

- Excavator – 1 Hitachi EX 1200
- Haul Trucks – 2 Cat 777's
- Dozers – 1 Cat D7, 1 Cat D8, 1 Cat D6
- Compactors – Cat CS583
- Sand truck, Grader, service trucks, fuel trucks

2.2 ACTIVITIES

The major construction activities for the reporting period are summarized below.

Perimeter Embankment

The Perimeter Embankment Zones T and C have been constructed to El. 942.5 m between setting out points S5 and S6 as shown on Figure 1.2. The Zone F chimney drain has been constructed to 941.0 m in this area, and will be extended as necessary during the next stage of construction.

SECTION 3.0 – KNIGHT PIESOLD ACTIVITIES

3.1 GENERAL

KP site activities over the reporting period included the following:

- Inspection and documentation of construction activities.
- QA/QC collection and testing of Zone F and T control and record samples.
- Preparation of daily inspection reports.
- Review of embankment monitoring data provided by MPMC.

3.2 LABORATORY TESTING

The following samples were collected and tested on site over the reporting period:

- Zone T record sample R/ZT-1
- Zone F control samples C/ZF-1 to 3
- Zone F record samples R/ZF-1 to 3

The results of the testing are provided on the summary Tables 3.1 to 3.3 and gradation plot Figures 3.1 to 3.3.

The results show that the Zone T record sample meets the specifications for particle size distribution.

The Zone C control sample results show that sample C/ZF-2 was too coarse to meet the gradation specifications. This sample was taken during initial crushing, however, before crushing materials were adjusted to produce a finer product. Sample C/ZF-2a was subsequently obtained, and meets the required specifications. All of the Zone F record samples meet the specifications.

SECTION 4.0 – EMBANKMENT MONITORING

Monitoring of tailings embankment instrumentation over the reporting period indicates that the embankment is performing well within design tolerances.

4.1 VIBRATING WIRE PIEZOMETERS

Piezometer readings were obtained on December 6. The results of the monitoring are shown on Figures 4.1 to 4.5, and are summarized below. Locations of the piezometers are shown on attached drawings.

Foundation Piezometers

The Main Embankment foundation piezometers have typically shown slight fluctuations or slight decreases in pore water pressure since the previously reported October 11th readings. The largest decreases have been about 0.9 m in Plane C.

No substantial changes were noted in the Perimeter Embankment (Plane D) foundation piezometers.

Fill Piezometers

Most of the Main Embankment glacial till piezometers responded to construction of the overlying Stage 3 fills with increasing pore pressures. Since the last set of readings the piezometers have shown either slight fluctuations, or a continuing decreasing trend with the largest decreases between 0.7 to 0.9m.

check B2-Pe2-63
C2-Pe2-65

Drain Piezometers

All drain piezometers have remained static and at a very low head indicating that the drains are free-draining and functioning as designed.

Tailings Piezometers

Water levels at the tailings piezometers continue to mimic the pond level, except at the Main Embankment, where the upstream toe drain has resulted in a depressed phreatic surface.

4.2 DRAIN FLOWS

Results of foundation drain outlet monitoring are shown on Figure 4.6. Results of monitoring of the upstream toe drains outlets are shown on Figure 4.7.

As noted in Progress Report No. 6, drain flows recorded on October 24 showed anomalously high flow rates for several of the Foundation drains, possibly due to surface water inflows or to a high pond level in the Recycle Pond which is believed to have caused water to back up and flood the drains and backfill. Four sets of readings have been obtained since, with the latest set taken December 12. These latter readings indicate that the fill is draining and the rates are returning to previous low rates.

The readings in all cases show a significant decrease from the anomalous values, although some of the readings still remain slightly above the range of previously recorded values. There has been no visible sediment in the flows from the foundation drains.

Monitoring of the upstream toe drains shows slight fluctuations in flows, likely due to the increasing pond level as well as the changing tailings slurry discharge locations.

SECTION 5.0 – ONGOING ITEMS

The following items will be addressed during upcoming reporting periods:

- MPMC will continue to monitor the Perimeter Embankment for signs of instability. *how.*
- MPMC and KP will continue to review the Perimeter Embankment construction scheduling.
- KP Personnel will visit the site as necessary for construction inspections.

Submitted by:



Sarah Griffiths
Knight Piesold Ltd.

Distribution: Eric Leneve, Don Parsons – MPMC
George Headley – MEMND
Ken Brouwer – KP Vancouver

TABLE 3.1

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY

STAGE 3 CONSTRUCTION
ZONE T RECORD TESTS - SUMMARY SHEET

Printed 12/15/00 16:15

Rev'd 12-Dec-00

#N/A

Date Sampled	Sample No.	Location	C3 (Particle Size Distribution)			
			Cobbles %	Gravel %	Sand %	Silt/Clay %
			> 3 inch	3 inch to #4	#4 to #200	< #200
4-Dec-00	R/ZT-1	Zone T Fill, Chainage 31+20, Elevation 940.5	20.0	58.8	21.0	0.3
		MEAN	20.0	58.8	21.0	0.3
		MEDIAN	20.0	58.8	21.0	0.3
		MAXIMUM	20.0	58.8	21.0	0.3
		MINIMUM	20.0	58.8	21.0	0.3

Notes:

1) C3 (Particle Size Distribution) - ASTM D422

Rev 0 - Issued with Progress Report

TABLE 3.2

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY

STAGE 3 CONSTRUCTION
ZONE F CONTROL TESTS - SUMMARY SHEET

M:\1162\13\Data\Stage 3A Site Files\Stage 3A PE Site Files\Zone F\Zone F Summary.xls\Record Summary

Date Printed 15-Dec-00

Rev'd: 14-Dec-00

Date Sampled	Sample No.	Location	C3 (Particle Size Distribution)			
			Cobbles % > 3 inch	Gravel % 3 inch to #4	Sand % #4 to #200	Silt/Clay % < #200
22-Nov-00	C/ZF-1	Stockpile, Right Face	0.0	49.2	48.7	2.1
29-Nov-00	C/ZF-2	Conveyor	0.0	71.3	26.5	2.3
29-Nov-00	C/ZF-2a	Conveyor	0.0	55.3	41.9	2.8
4-Dec-00	C/ZF-3	Stockpile	0.0	42.0	51.2	6.8
		MEAN	0.0	54.5	42.1	3.5
		MEDIAN	0.0	52.3	45.3	2.5
		MAXIMUM	0.0	71.3	51.2	6.8
		MINIMUM	0.0	42.0	26.5	2.1

Notes:

1) C3 (Particle Size Distribution) - ASTM D422

Rev 0 - Issued with Progress Report

TABLE 3.3

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY

STAGE 3 CONSTRUCTION
ZONE F RECORD TESTS - SUMMARY SHEET

Date Printed 15-Dec-00

Rev'd: 14-Dec-00

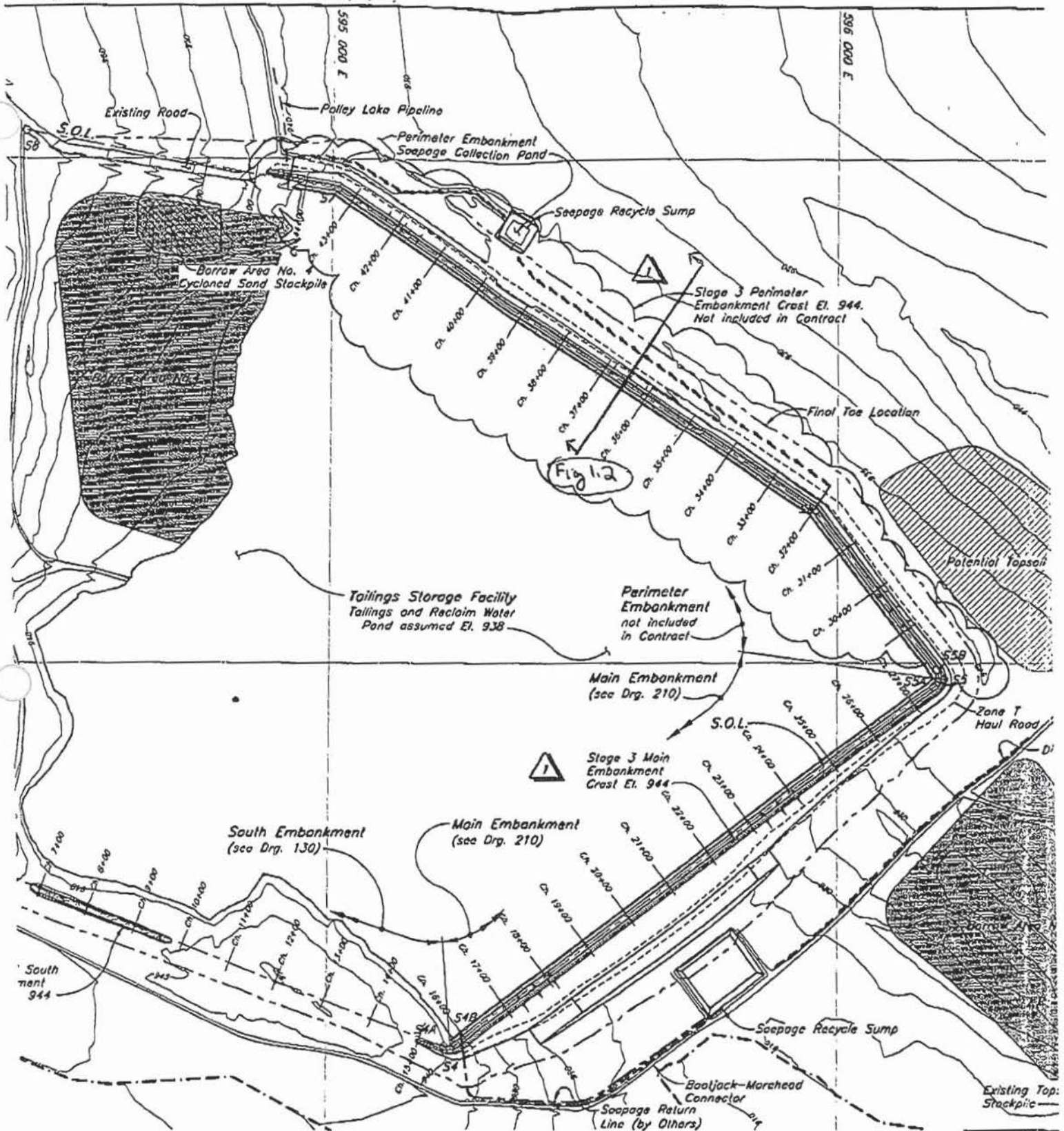
M:\11162\13\Data\Stage 3A Site Files\Stage 3A PE Site Files\Zone F\Zone F Summary.xls\Record Summary

Date Sampled	Sample No.	Location	C3 (Particle Size Distribution)			
			Cobbles % > 3 inch	Gravel % 3 inch to #4	Sand % #4 to #200	Silt/Clay % < #200
28-Nov-00	R/ZF-1	Zone F Fill, Chainage 29+50, Elevation 940.5	0.0	50.0	45.3	4.7
4-Jan-00	R/ZF-2	Zone F Fill, Chainage: 30+60, Elevation 928.3	0.0	57.2	39.2	3.6
4-Dec-00	R/ZF-3	Zone F Fill, Chainage: 31+85, Elevation 940m	0.0	48.4	45.5	6.1
MEAN			0.0	51.9	43.3	4.8
MEDIAN			0.0	50.0	45.3	4.7
MAXIMUM			0.0	57.2	45.5	6.1
MINIMUM			0.0	48.4	39.2	3.6

Notes:

1) C3 (Particle Size Distribution) - ASTM D422

Rev 0 - Issued with Progress Report



NOTES

1. Topography of TSF generated from points and break lines sent from MPWC in July 1999. The topography outside the TSF area is from 1997 flyover.
2. Current size and location of potential and existing Borrow Areas and Topsoil Stockpiles are to be confirmed.

Figure 1.1

Scale 100 0 100 200 300 400 500 m



REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
1	2JUN'00	ISSUED FOR CONSTRUCTION					MOB	TAM					
0	14APR'00	ISSUED FOR TENDER					MOB	NSO	JRK	KJB			
										DESIGNED MOB			
										DRAWN TAM			

Knight Piésold Ltd.

CONSULTING ENGINEERS

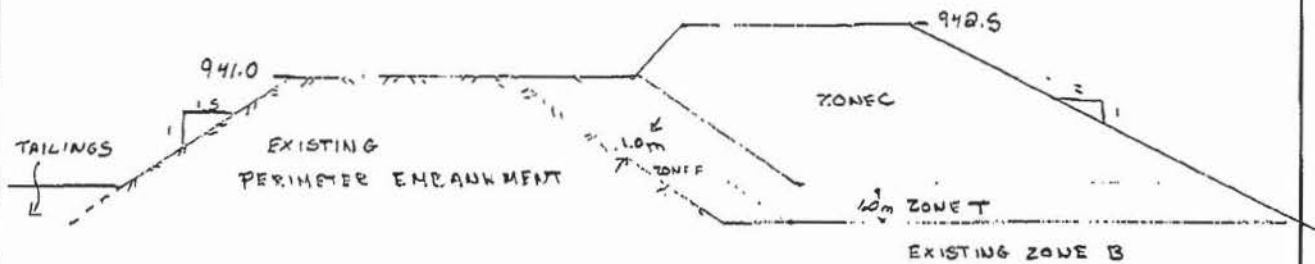
Project: MT. POLLEY - STAGE 3A CONSTRUCTIONProject No.: 11142/13

Calculations for: _____

Date: Jan 5/01Calculations by: SEK

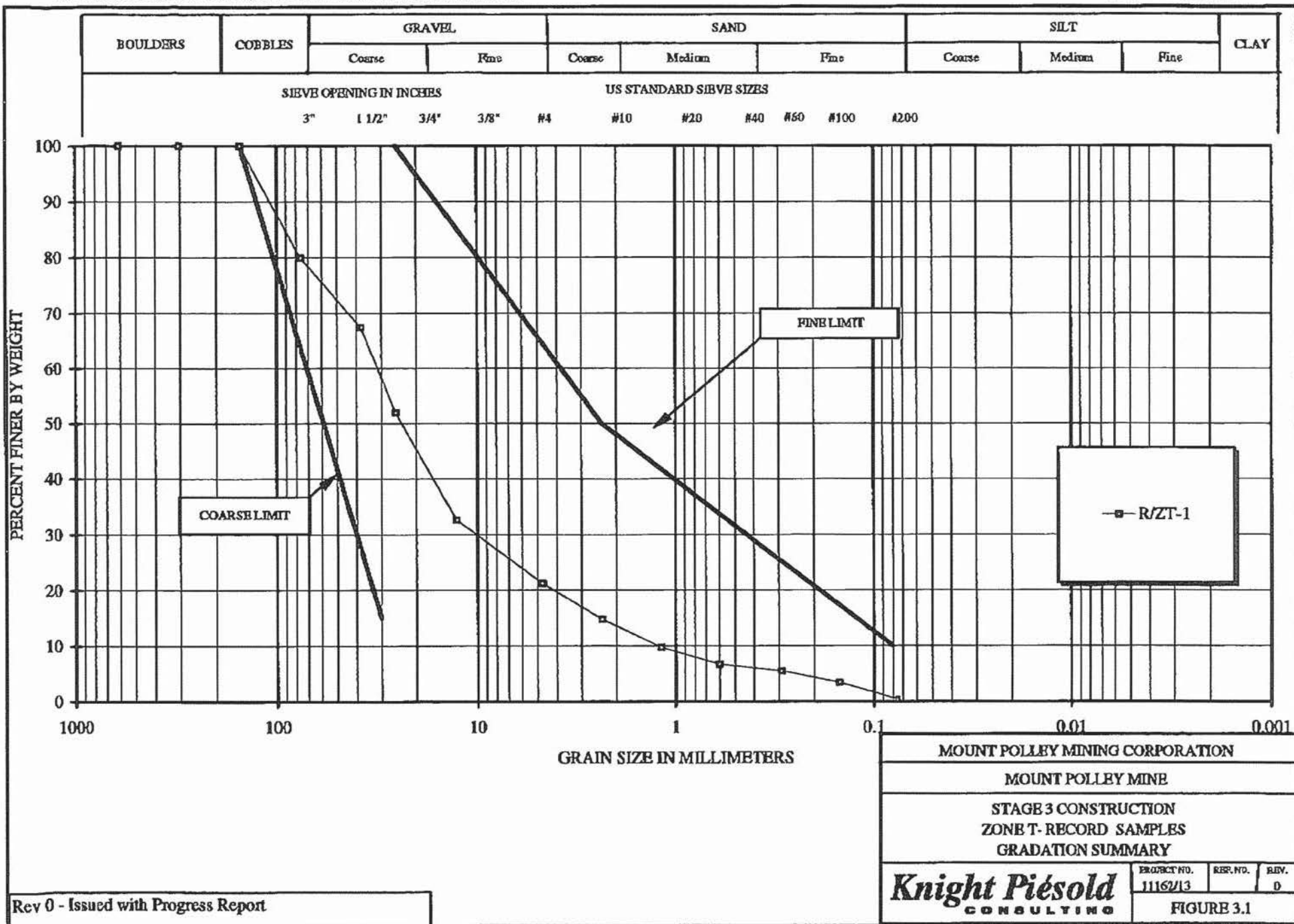
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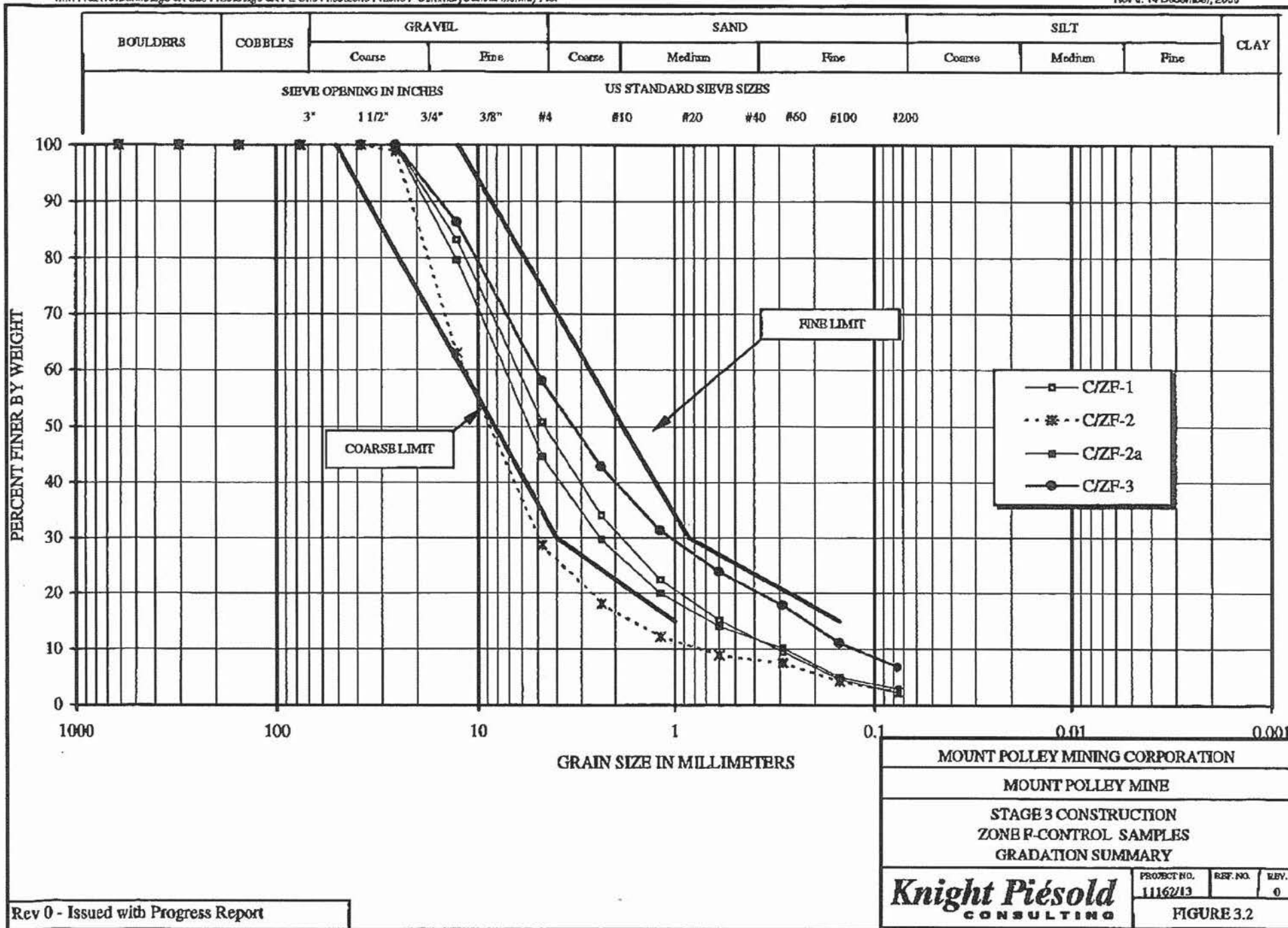
Checked by: _____ Date: _____

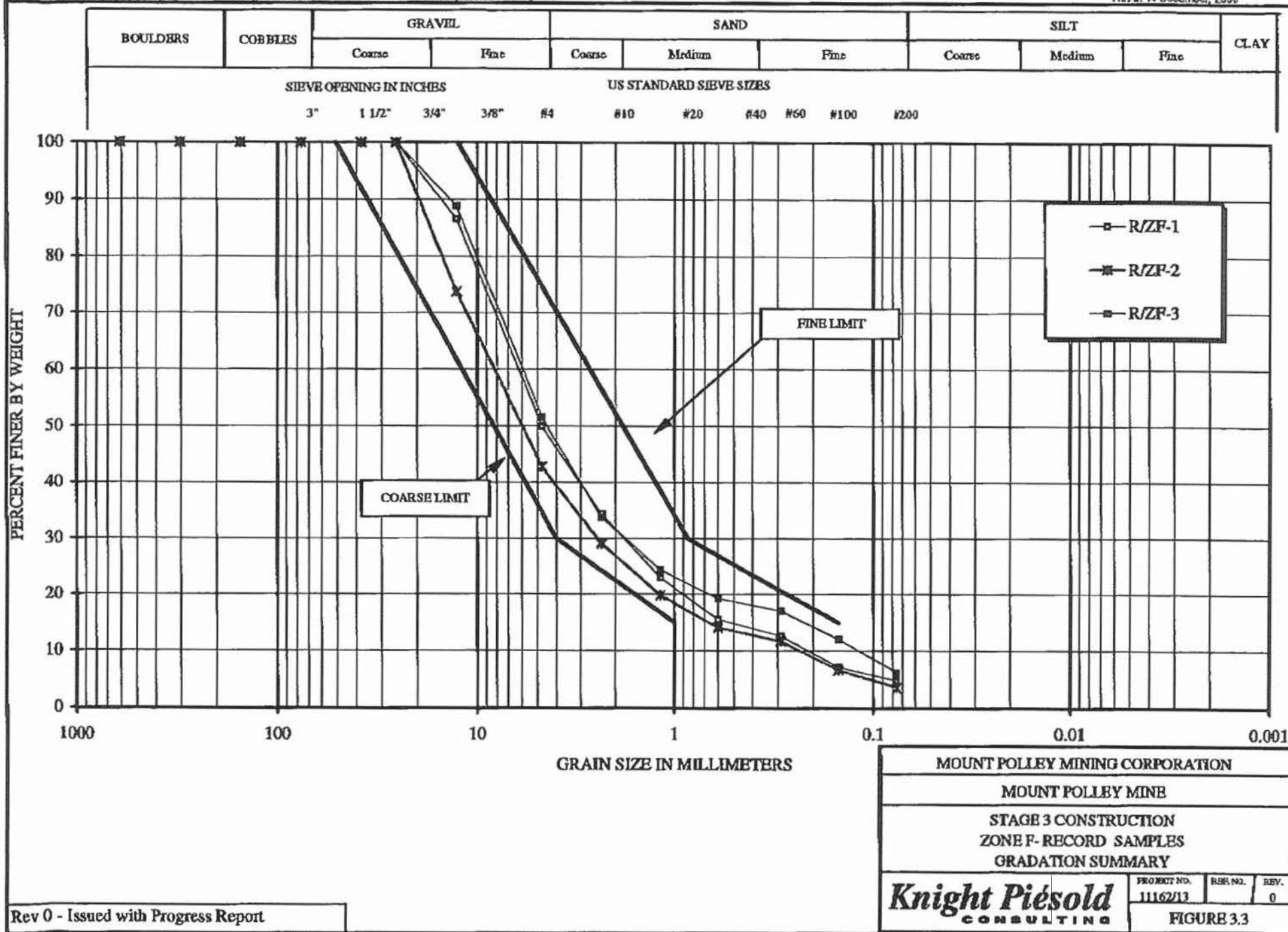


PERIMETER EMBANKMENT
BETWEEN SS #55 & 56

FIGURE 1.2







MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE A PIEZOMETERS

KNIGHT PIESOLD
CONSULTING

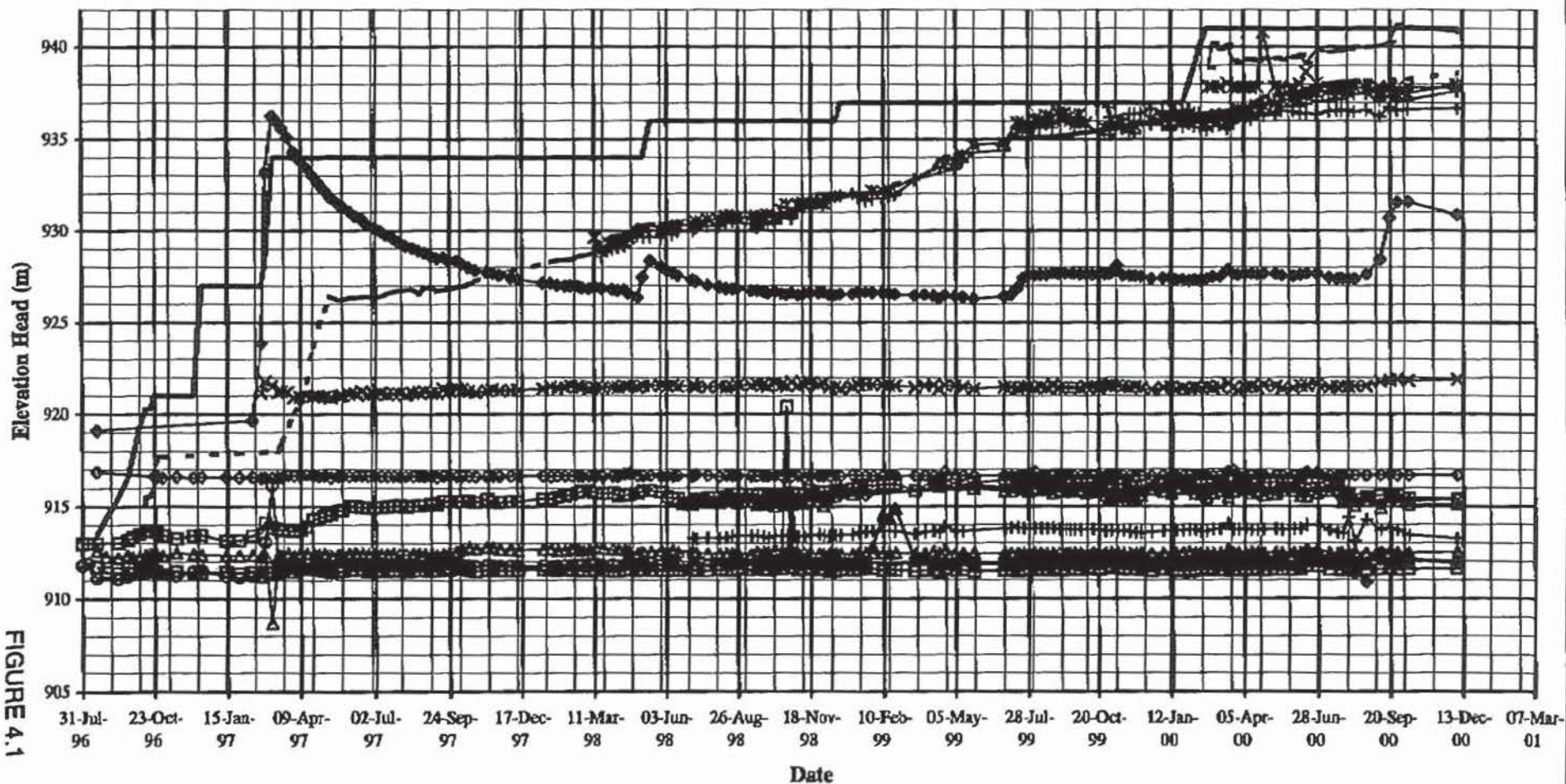
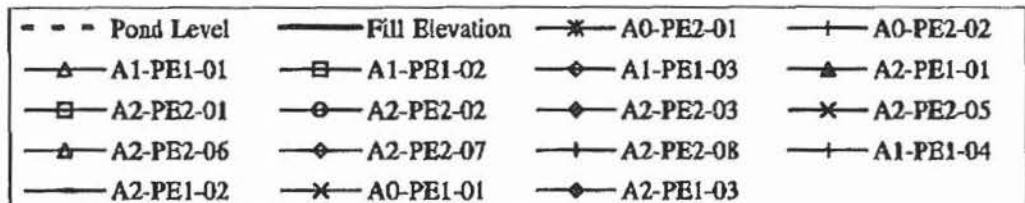


FIGURE 4.1

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE B PIEZOMETERS

KNIGHT PIESOLD
CONSULTING

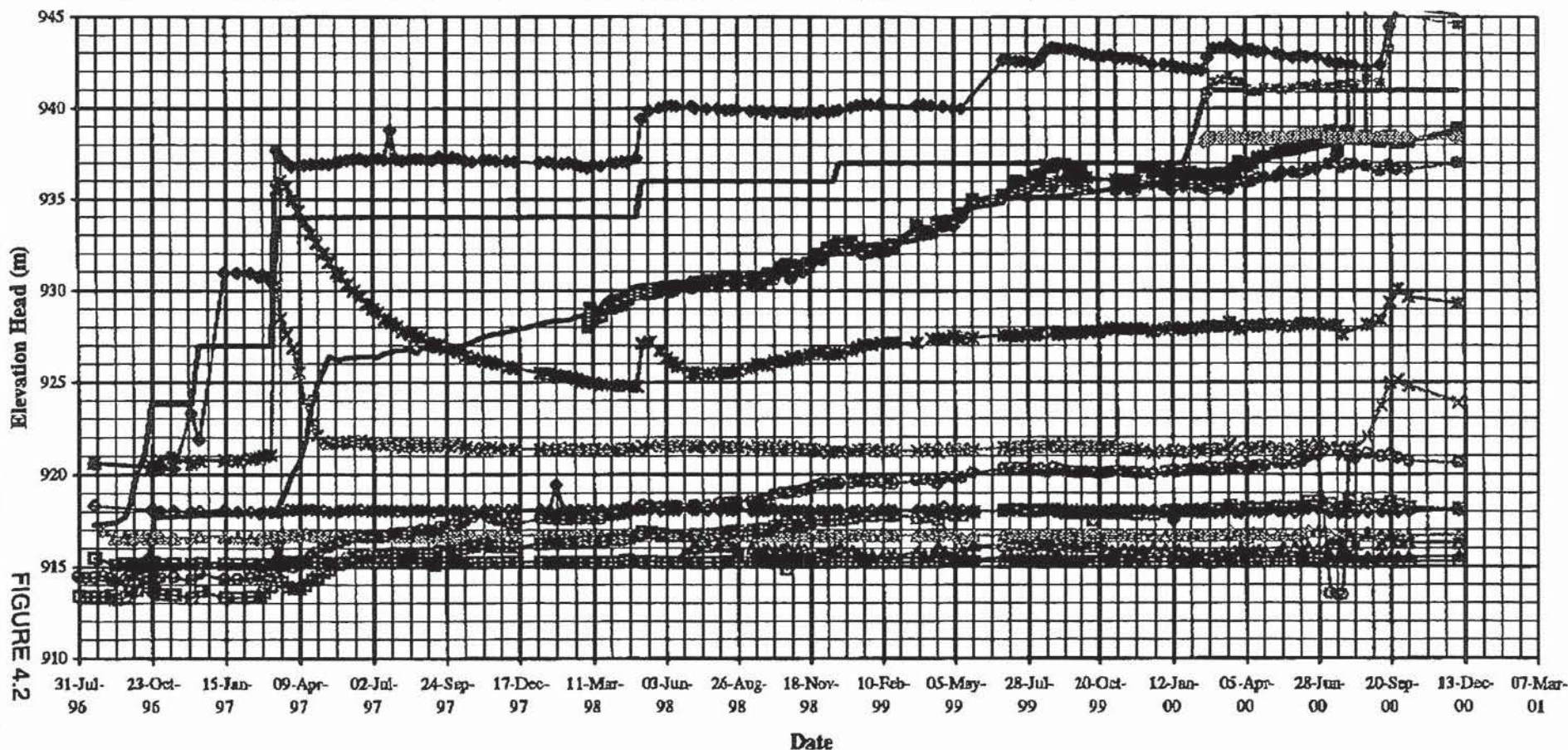
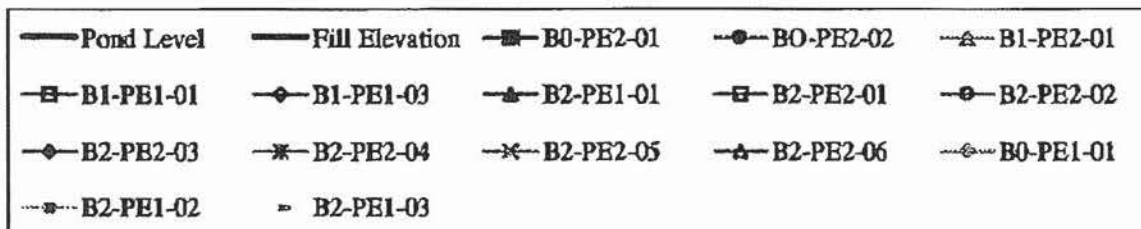


FIGURE 4.2

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE C PIEZOMETERS

KNIGHT PIESOLD
CONSULTING

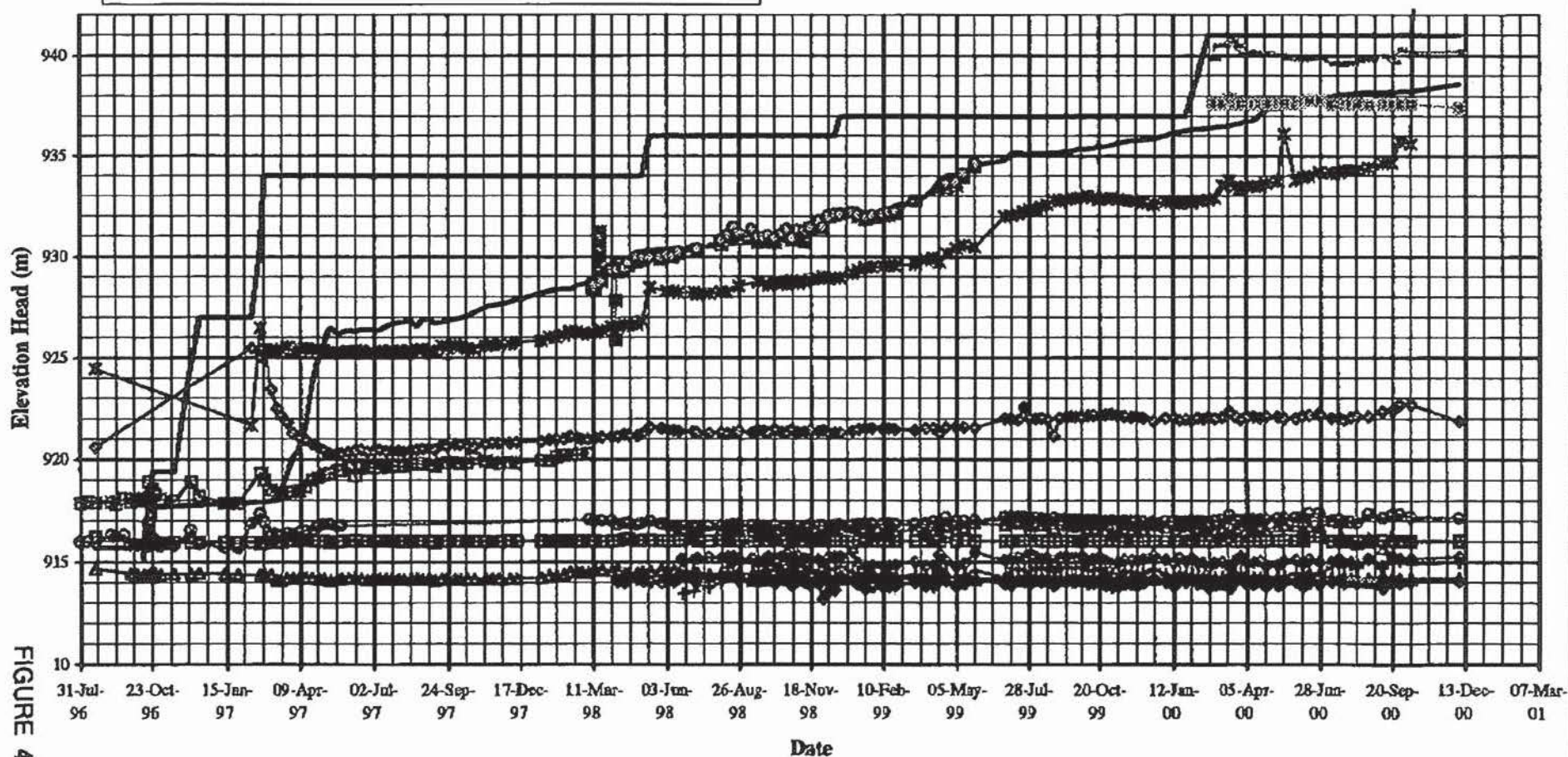
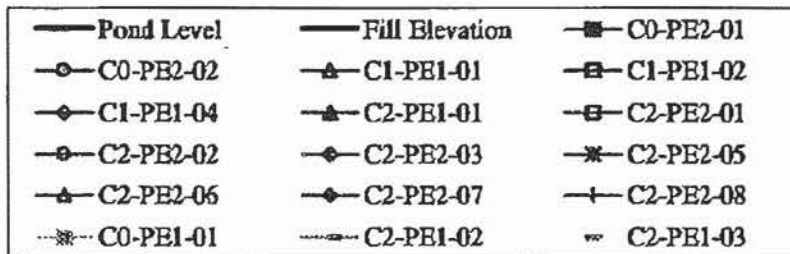


FIGURE 4.3

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE D PIEZOMETERS

KNIGHT PIESOLD
CONSULTING

— Pond Level — Fill Elevation —□— D1-PE1-02
 —▲— D2-PE1-01 —◆— D2-PE2-01 —□— D2-PE2-02

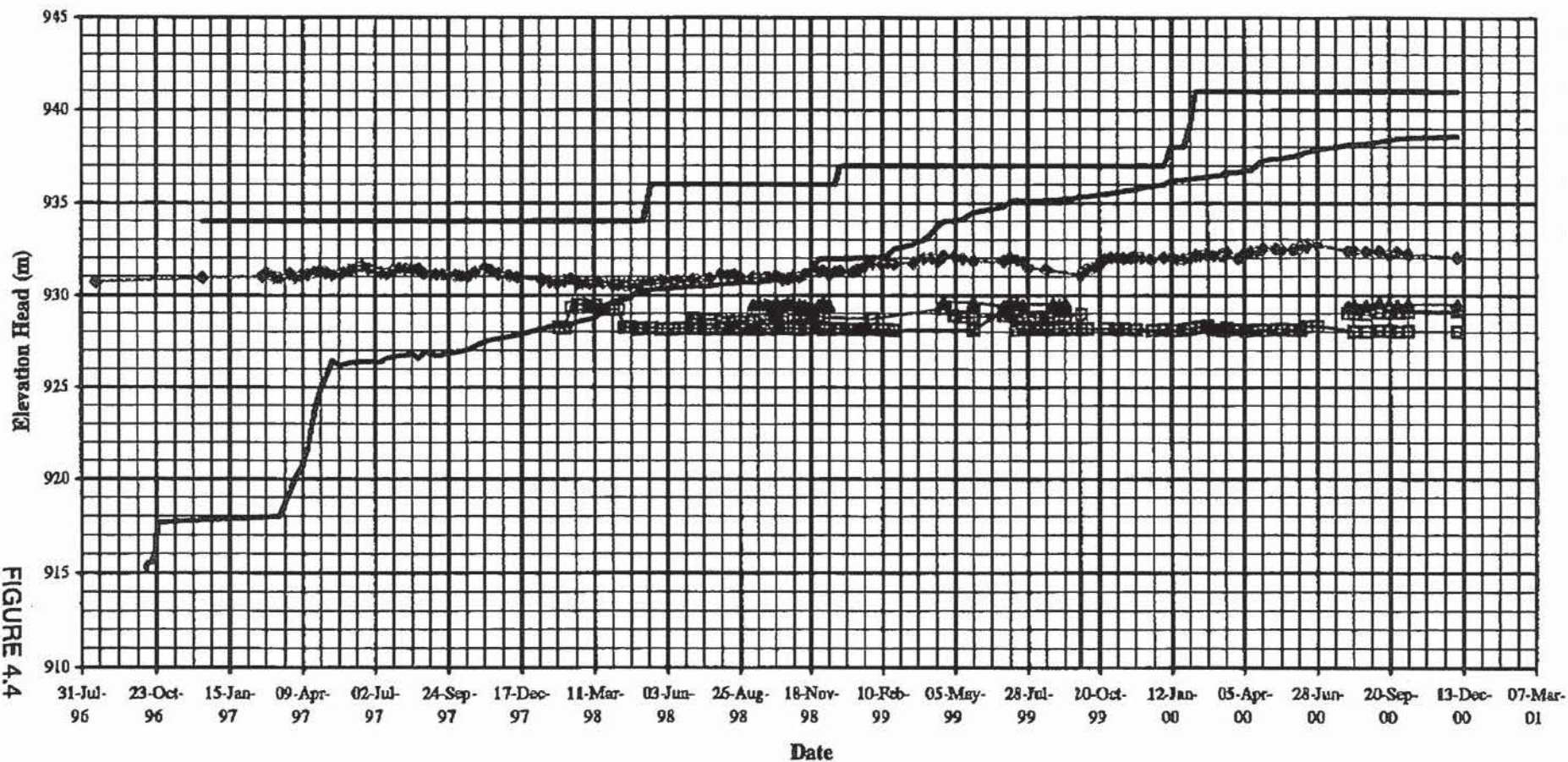


FIGURE 4.4

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE E PIEZOMETERS

KNIGHT PIESOLD
CONSULTING

Elevation Head (m)

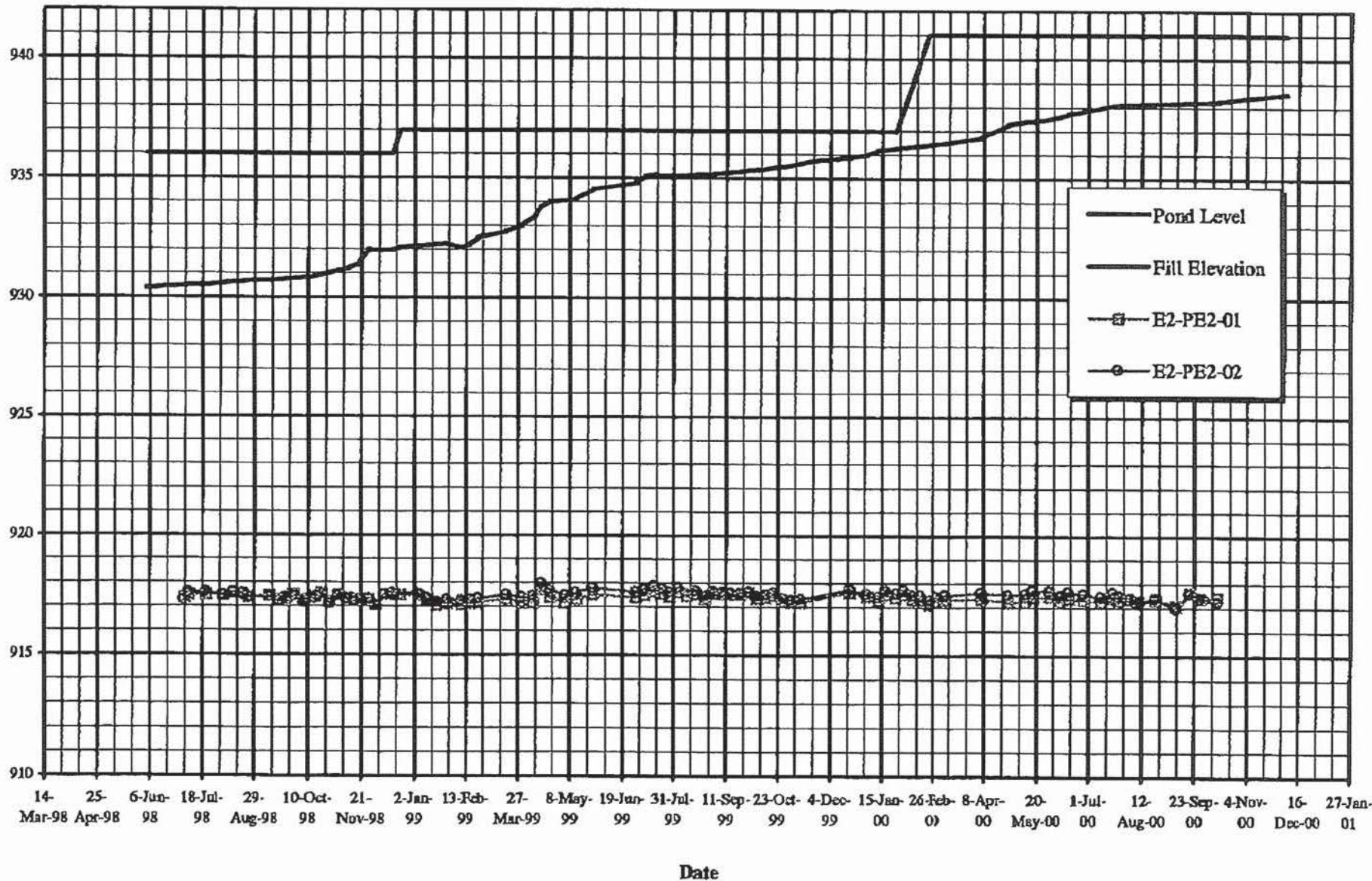
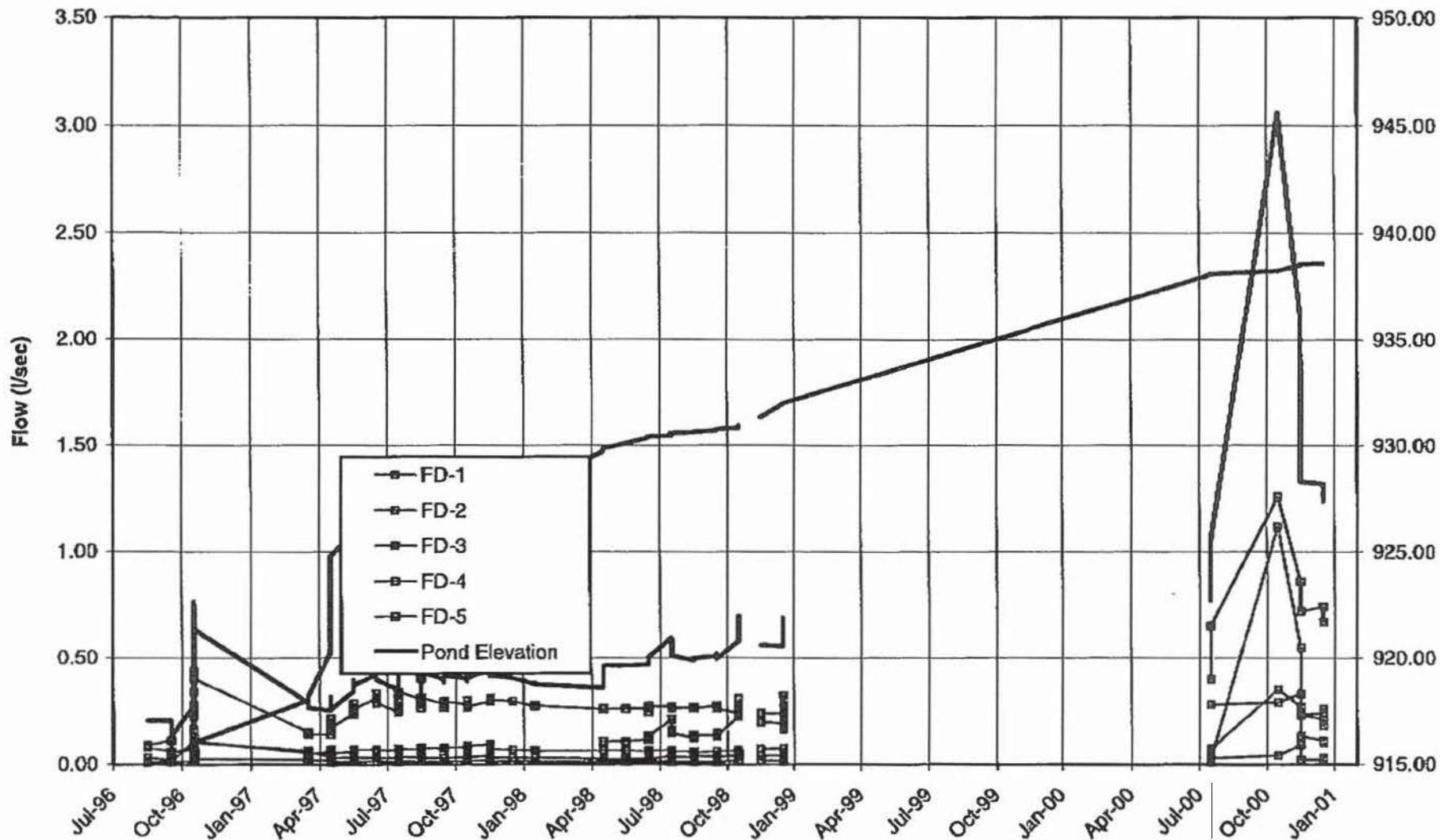
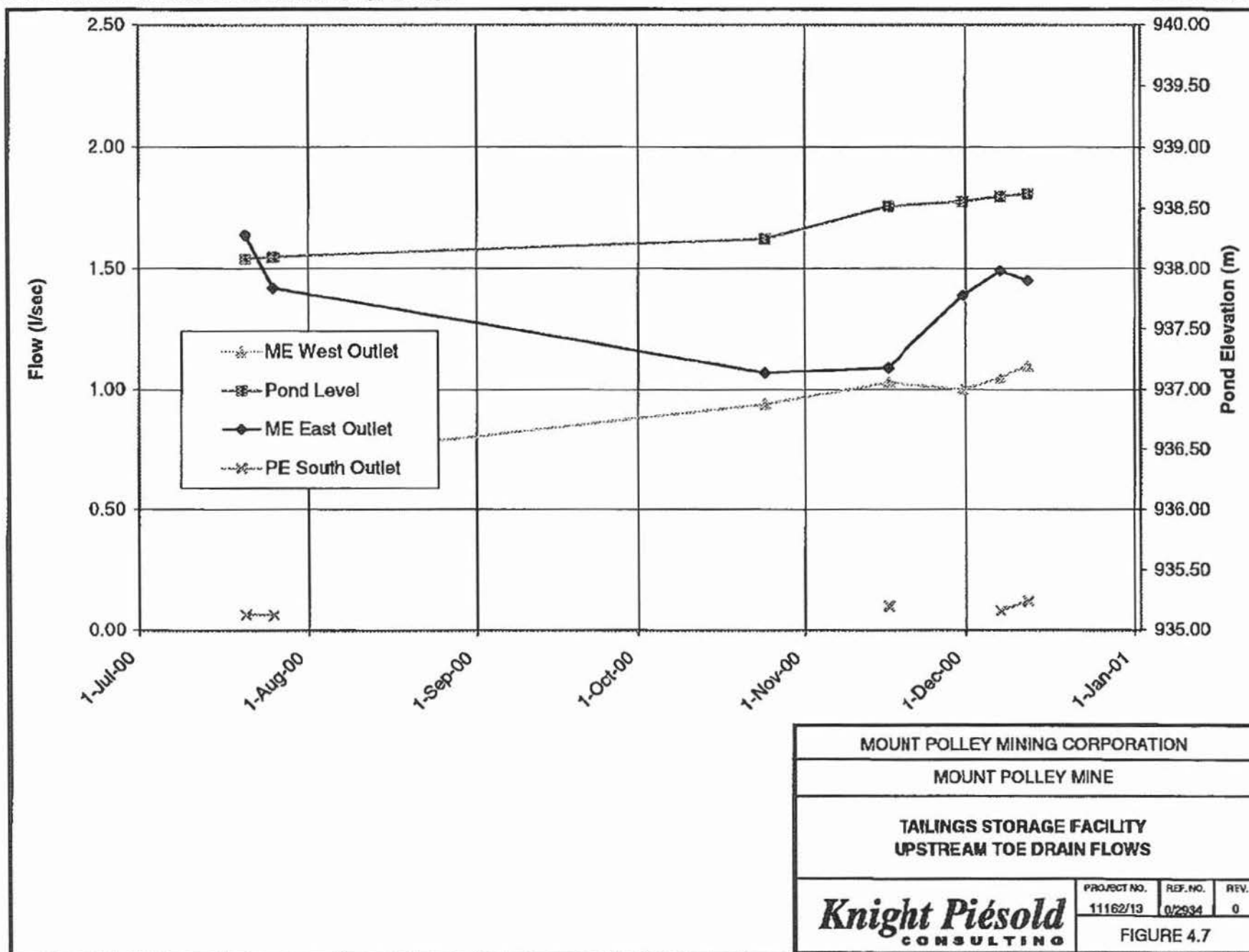
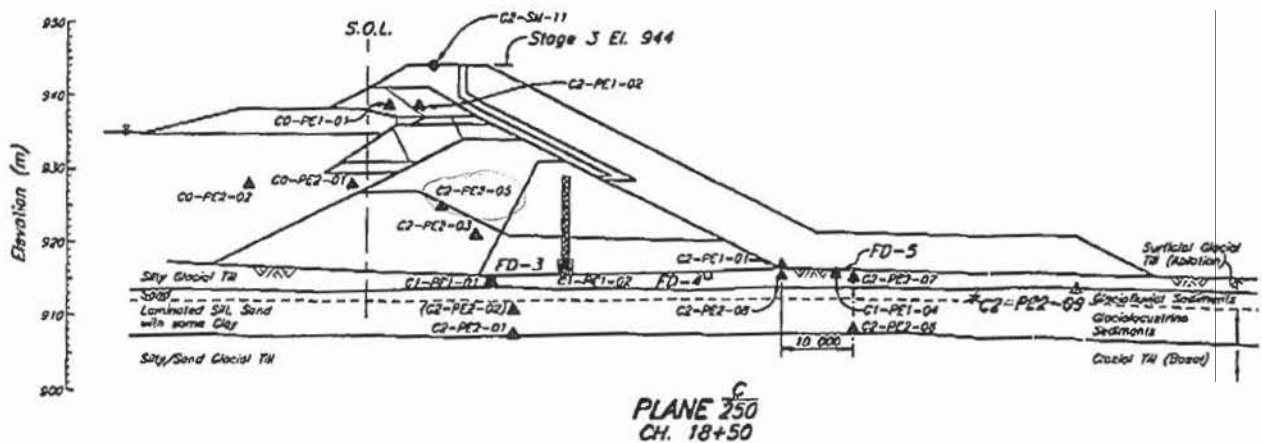
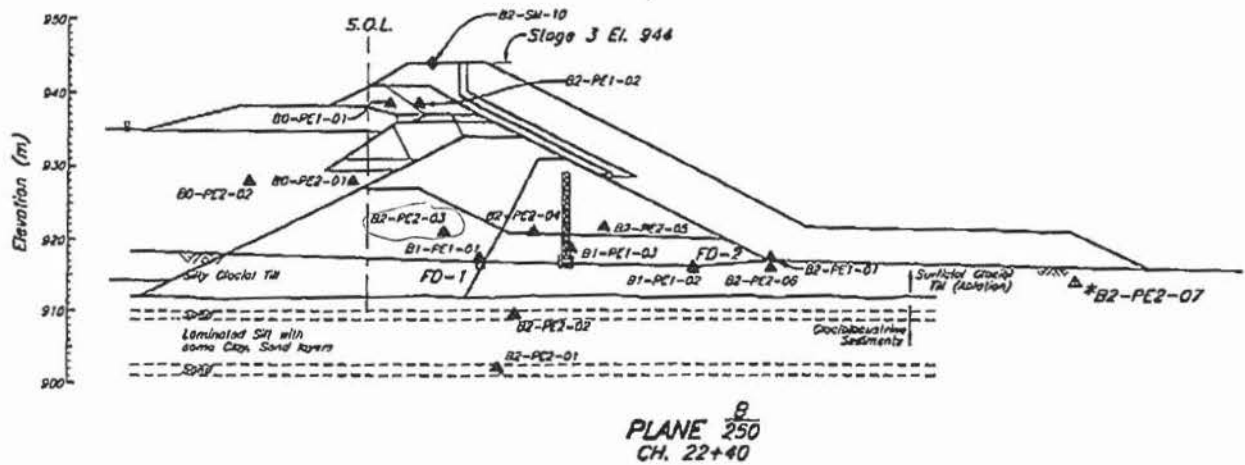
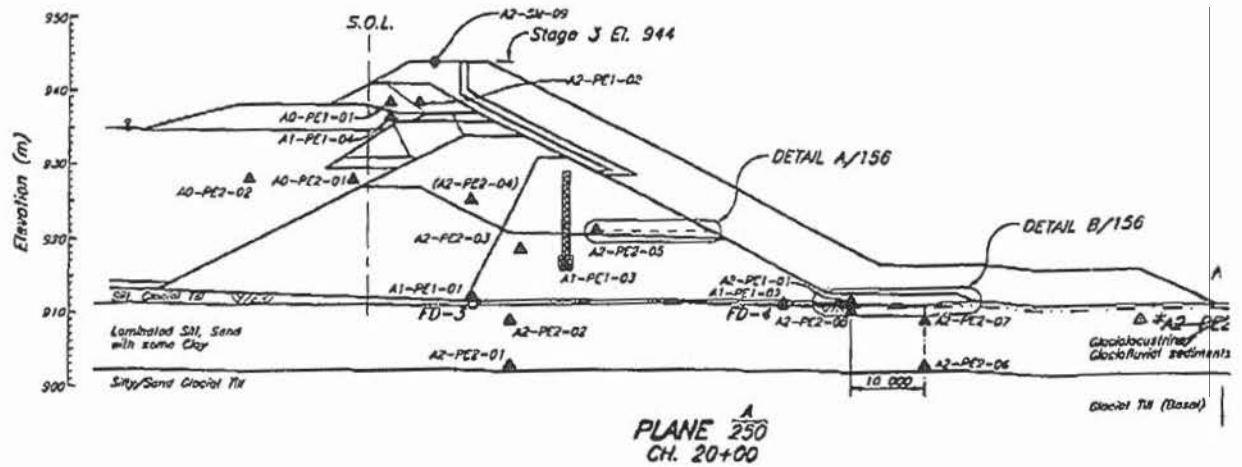


FIGURE 4.5



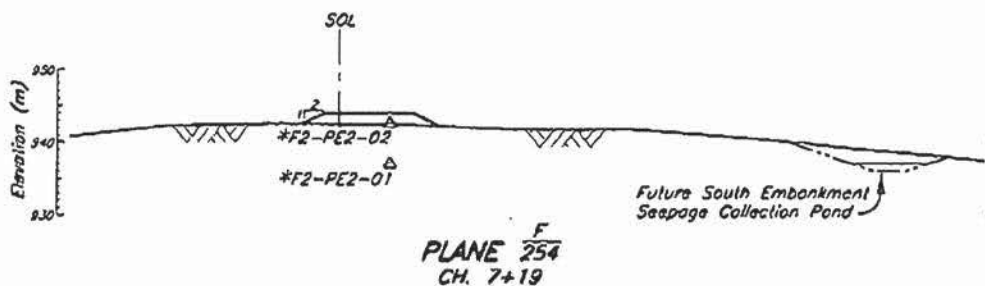
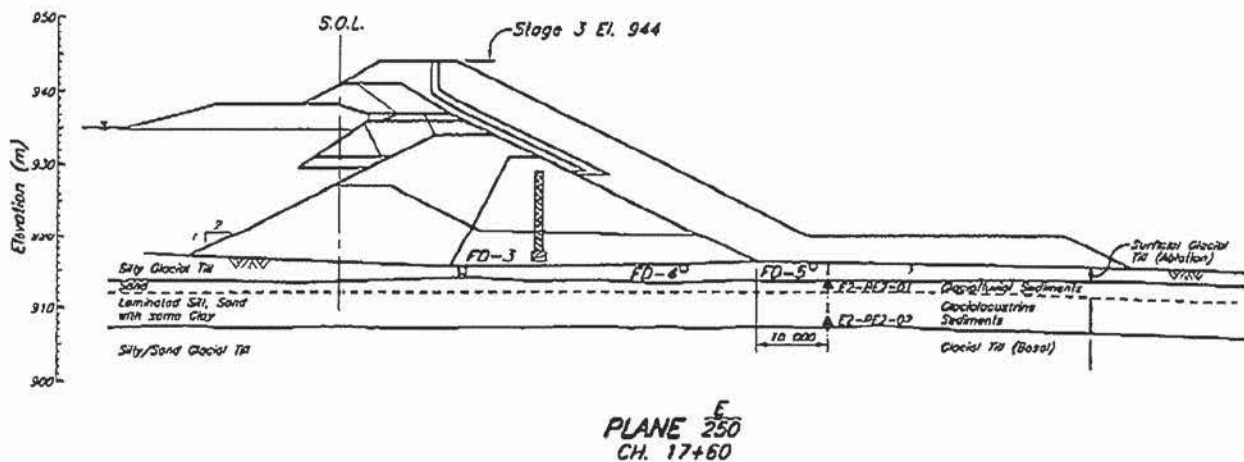
MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY		
MAIN EMBANKMENT		
FOUNDATION DRAIN FLOWS		
	PROJECT NO.	REF. NO.
	11162/13	0/2934
		REV.
		0
FIGURE 4.6		





3 TAILINGS EMBANKMENT - INSTRUMENTATION - SECTIONS 2 OF 2
 GE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SUMMARY OF INSTALLATION & TYP. DETAILS
 AGE 3 MAIN EMBANKMENT - INSTRUMENTATION - PLAN

DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D	REV.	DATE	ISSUED FOR
REFERENCE DRAWINGS			REVISIONS							



256	TSF - STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION SUMMARY OF INSTALLATION & TYPICAL DETAILS
254	TSF - STAGE 3 TAILINGS EMBANKMENT - SOUTH EMBANKMENT - INSTRUMENTATION PLAN
250	TSF - STAGE 3 TAILINGS EMBANKMENT - MAIN EMBANKMENT - INSTRUMENTATION PLAN
130	TSF - STAGE 3 SOUTH EMBANKMENT - PLAN AND SECTION
215	TSF - STAGE 3 MAIN EMBANKMENT - SECTIONS AND DETAILS

REV	DATE	DESCRIPTION	DESIGN	DRAWN	CHK
REFERENCE DRAWINGS			REVISIONS		

AKZ
12/21/01 → File

Knight Piesold
CONSULTING

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Vancouver, BC V6C 2T8 Fax: +1 (604) 687-2203
CANADA www.knightpiesold.com

DATE: 15 January, 2001 **FILE NO.:** 11162/14.01
TIME: **REF NO.:** 1/0120
OPERATOR: **PAGES:** 1 of 25
SENDER: Sarah Griffiths **APPROVED:** KJB

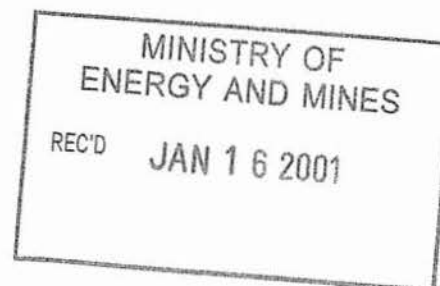
TO: MPMC **FAX:** (250) 790-2268
ATTN: Don Parsons, Eric Leneve, Greg Smyth
CC: Chris Carr - MEMD 250-952-0481
SUBJECT: Mount Polley Stage 3A

Please find following Progress Report No. 7 (Revised).

Regards,



Sarah Griffiths.



The content of this communication is confidential. If you are not the intended recipient, please notify us immediately. Unauthorized use or disclosure of this communication or its content is unlawful.

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT

TAILINGS STORAGE FACILITY
STAGE 3 CONSTRUCTION

PROGRESS REPORT NO. 7 – November 24 to December 6, 2000

SECTION 1.0 –GENERAL

Construction of the Stage 3a raise for the Tailings Storage Facility Perimeter Embankment has been on-going since the last reporting period (October 24, 2000). MPMC continued construction of the upstream cycloned sand berm between Ch. 32+00 and Ch. 43+50 until late November when freezing conditions made further cycloning impractical.

Over this reporting period the downstream portion of the embankment was raised between Ch. 28+00 and 32+00 using filter sand and Zones T and C rockfill. The fill was completed to the target elevation of 942.5 m on December 6.

1.1 PERSONNEL

Mount Polley Mining Corporation (MPMC) management personnel overseeing the Stage 3 work are as follows:

Eric Leneve, Tailings Coordinator
Don Parsons, Mine Superintendent

The following Knight Picold Ltd. (KP) representatives were on site during the reporting period:

Sarah Griffiths, Site Engineer – Arrived on site November 24, left site December 6.

1.2 WEATHER

Weather conditions over the period were variable, with a mix of sun and clouds and occasional periods of light snow. Temperatures ranged from about -10°C to +1°C.

Work was delayed November 24 and December 2 due to heavy snowfall.

1.3 DESIGN DEVELOPMENTS

Recent review of the project water balance indicates that a core zone elevation of 941.0 m is sufficient to provide storage for tailings, supernatant water and the 24 hour PMP event. An additional 1 m is required for wave run-up protection, and this may be achieved with cycloned sand or rockfill. Options for construction of the Perimeter Embankment were discussed in detail in Progress Report No. 6.

Freeboard?

Cycloned sand has been hydraulically placed between Ch. 32+00 and Ch. 43+50 (Setting Out Points S6 and S7). The sand will be mechanically shaped and compacted as required to form the approximate configuration shown on Figure 1.2.

*?
check compact
required.*

MPMC has provided the required freeboard between Ch. 28+00 and Ch. 32+00 by downstream placement of rockfill and filter sand to the configuration shown on Figure 1.3.

A transition will be required between the upstream cyclone sand berm and downstream rock fill, and may consist of a temporary rock or sand berm constructed across the crest and between the fills to El. 942.5. The berm would be removed during the next stage of construction.

1.4 TAILINGS FACILITY OPERATION AND MAINTENANCE

ch 28 ch 32
Prior to construction between S5 and S6 on the Perimeter Embankment, the tailings were being discharged from the beach in this area. During construction, the tailings were discharged from the north end of the tailings facility. Work to relocate the pipeline and begin discharging near the south end of the facility was ongoing.

1.5 SAFETY

No safety incidents were reported for the period.

SECTION 2.0 - CONSTRUCTION ACTIVITIES

2.1 EQUIPMENT

MPMC used the following equipment over the reporting period:

- Loader - 1 Cat 992
- Excavator - 1 Hitachi EX 270
- Haul Trucks - 2 Cat 777's
- Dozers - 1 Cat D7, 1 Cat D8, 1 Cat D6
- Compactors - Cat CS583
- Sand truck, Grader, service trucks, fuel trucks

2.2 ACTIVITIES

The major construction activities for the reporting period are summarized below.

Perimeter Embankment

The Perimeter Embankment Zones T and C have been constructed to El. 942.5 m between Ch. 28+00 to Ch. 32+00, as shown on Figure 1.3. The Zone F chimney drain has been constructed to 941.0 m in this area, and will be extended as necessary during the next stage of construction.

SECTION 3.0 - KNIGHT PIESOLD ACTIVITIES

3.1 GENERAL

KP site activities over the reporting period included the following:

- Inspection and documentation of construction activities.
- QA/QC collection and testing of Zone F and T control and record samples.
- Preparation of daily inspection reports.
- Review of embankment monitoring data provided by MPMC.

3.2 LABORATORY TESTING

The following samples were collected and tested on site over the reporting period:

- Zone T record sample R/ZT-1
- Zone F control samples C/ZF-1 to 3
- Zone F record samples R/ZF-1 to 3

The results of the testing are provided on the summary Tables 3.1 to 3.3 and gradation plot Figures 3.1 to 3.3.

The results show that the Zone T record sample meets the specifications for particle size distribution.

The Zone F control sample results show that sample C/ZF-2 was too coarse to meet the gradation specifications. This sample was taken during initial crushing, however, before crushing materials were adjusted to produce a finer product. Sample C/ZF-2a was subsequently obtained, and meets the required specifications. All of the Zone F record samples meet the specifications.

(3)

~~Sample~~

SECTION 4.0 – EMBANKMENT MONITORING

Monitoring of tailings embankment instrumentation over the reporting period indicates that the embankment is performing well within design tolerances.

4.1 VIBRATING WIRE PIEZOMETERS

Piezometer readings were obtained on December 6. The results of the monitoring are shown on Figures 4.1 to 4.5, and are summarized below. Locations of the piezometers are shown on attached drawings.

Foundation Piezometers

The Main Embankment foundation piezometers have typically shown slight fluctuations or slight decreases in pore water pressure since the previously reported October 11th readings. The largest decreases have been about 0.9 m in Plane C.

No substantial changes were noted in the Perimeter Embankment (Plane D) foundation piezometers.

Fill Piezometers

Most of the Main Embankment glacial till piezometers responded to construction of the overlying Stage 3 fills with increasing pore pressures. Since the last set of readings the piezometers have shown either slight fluctuations, or a continuing decreasing trend with the largest decreases between 0.7 to 0.9m.

Drain Piezometers

All drain piezometers have remained static and at a very low head indicating that the drains are free-draining and functioning as designed.

Tailings Piezometers

Water levels at the tailings piezometers continue to mimic the pond level, except at the Main Embankment, where the upstream toe drain has resulted in a depressed phreatic surface.

4.2 DRAIN FLOWS

Results of foundation drain outlet monitoring are shown on Figure 4.6. Results of monitoring of the upstream toe drains outlets are shown on Figure 4.7.

As noted in Progress Report No. 6, drain flows recorded on October 24 showed anomalously high flow rates for several of the Foundation drains, possibly due to surface water inflows or to a high pond level in the Main Embankment Seepage Collection Pond (MESCP) which is believed to have caused water to back up and flood the drains and backfill. Four sets of readings have been obtained since, with the latest set taken

December 12. These latter readings indicate that the fill is draining and the rates are returning to previous low rates.

The readings in all cases show a significant decrease from the anomalous values, although some of the readings still remain slightly above the range of previously recorded values. There has been no visible sediment in the flows from the foundation drains.

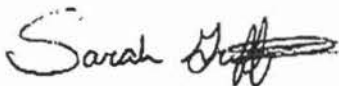
Monitoring of the upstream toe drain shows slight fluctuations in flows, likely due to the increasing pond level as well as the changing tailings slurry discharge locations.

SECTION 5.0 - ONGOING ITEMS

The following items will be addressed during upcoming reporting periods:

- MPMC will continue to monitor the Perimeter Embankment for signs of instability
- MPMC and KP will continue to review the Perimeter Embankment construction scheduling.
- KP Personnel will visit the site as necessary for construction inspections.

Submitted by:



Sarah Griffiths
Knight Piesold Ltd.

Distribution: Eric Leneve, Don Parsons – MPMC
Chris Carr – MEMND
Ken Brouwer – KP Vancouver

TABLE 3.1

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY

STAGE 3 CONSTRUCTION
ZONE T RECORD TESTS - SUMMARY SHEET

Printed 12/15/00 16:15

Rev'd 12-Dec-00

#N/A

Date Sampled	Sample No.	Location	C3 (Particle Size Distribution)			
			Cobbles % > 3 inch	Gravel % 3 inch to #4	Sand % #4 to #200	Silt/Clay % < #200
4-Dec-00	R/ZT-1	Zone T Fill, Chainage 31+20, Elevation 940.5	20.0	58.8	21.0	0.3
MEAN			20.0	58.8	21.0	0.3
MEDIAN			20.0	58.8	21.0	0.3
MAXIMUM			20.0	58.8	21.0	0.3
MINIMUM			20.0	58.8	21.0	0.3

Notes:

1) C3 (Particle Size Distribution) - ASTM D422

Rev 0 - Issued with Progress Report

TABLE 3.2

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY

STAGE 3 CONSTRUCTION
ZONE F CONTROL TESTS - SUMMARY SHEET

Date Printed 15-Dec-00

Rev'd: 14-Dec-00

M:\11162\13>Data\Stage 3A Site Files\Stage 3A PE Site Files\Zone F\Zone F Summary.xls\Record Summary

Date Sampled	Sample No.	Location	C3 (Particle Size Distribution)			
			Cobbles % > 3 inch	Gravel % 3 inch to #4	Sand % #4 to #200	Silt/Clay % < #200
22-Nov-00	C/ZF-1	Stockpile, Right Face	0.0	49.2	48.7	2.1
29-Nov-00	C/ZF-2	Conveyor	0.0	71.3	26.5	2.3
29-Nov-00	C/ZF-2a	Conveyor	0.0	55.3	41.9	2.8
4-Dec-00	C/ZF-3	Stockpile	0.0	42.0	51.2	6.8
		MEAN	0.0	54.5	42.1	3.5
		MEDIAN	0.0	52.3	45.3	2.5
		MAXIMUM	0.0	71.3	51.2	6.8
		MINIMUM	0.0	42.0	26.5	2.1

Notes:

- 1) C3 (Particle Size Distribution) - ASTM D422

Rev 0 - Issued with Progress Report

TABLE 3.3

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY

STAGE 3 CONSTRUCTION
ZONE F RECORD TESTS - SUMMARY SHEET

Date Printed 15-Dec-00

Rev'd: 14-Dec-00

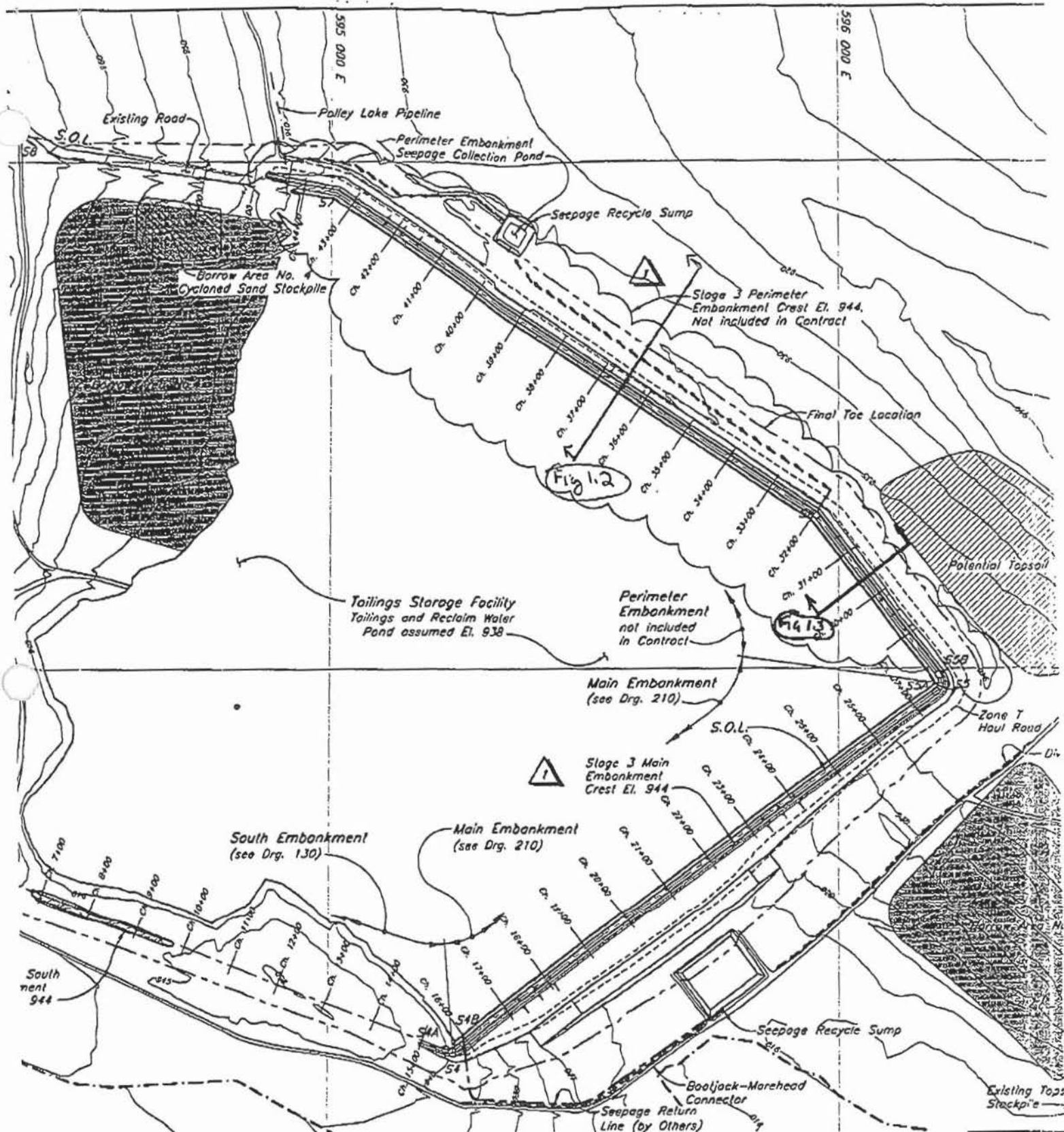
M:\1162\13\Data\Stage 3A Site Files\Stage 3A PE Site Files\Zone F\Zone F Summary.xls\Record Summary

Date Sampled	Sample No.	Location	C3 (Particle Size Distribution)			
			Cobbles %	Gravel %	Sand %	Silt/Clay %
			> 3 inch	3 inch to #4	#4 to #200	< #200
28-Nov-00	R/ZF-1	Zone F Fill, Chainage 29+50, Elevation 940.5	0.0	50.0	45.3	4.7
4-Jan-00	R/ZF-2	Zone F Fill, Chainage: 30+60, Elevation 928.3	0.0	57.2	39.2	3.6
4-Dec-00	R/ZF-3	Zone F Fill, Chainage: 31+85, Elevation 940m	0.0	48.4	45.5	6.1
		MEAN	0.0	51.9	43.3	4.8
		MEDIAN	0.0	50.0	45.3	4.7
		MAXIMUM	0.0	57.2	45.5	6.1
		MINIMUM	0.0	48.4	39.2	3.6

Notes:

1) C3 (Particle Size Distribution) - ASTM D422

Rev 0 - Issued with Progress Report



NOTES

1. Topography of TSF generated from points and break lines sent from MPWC in July 1999. The topography outside the TSF area is from 1997 flyover.
2. Current size and location of potential and existing Borrow Areas and Topsoil Stockpiles are to be confirmed.

Figure 1.1



										1	2JUN'00	ISSUED FOR CONSTRUCTION	MDR	TAM	DR	DR						
										0	14APR'00	ISSUED FOR TENDER	MDR	NSD	JRK	KJB	DESIGNED	MDR				
REV.	DATE	DESCRIPTION				DESIGN	DRAWN	CHK'D	APP'D	REV.	DATE	DESCRIPTION				DESIGN	DRAWN	CHK'D	APP'D			
REVISIONS										REVISIONS										DRAWN		TAM

Knight Piesold Ltd.

CONSULTING ENGINEERS

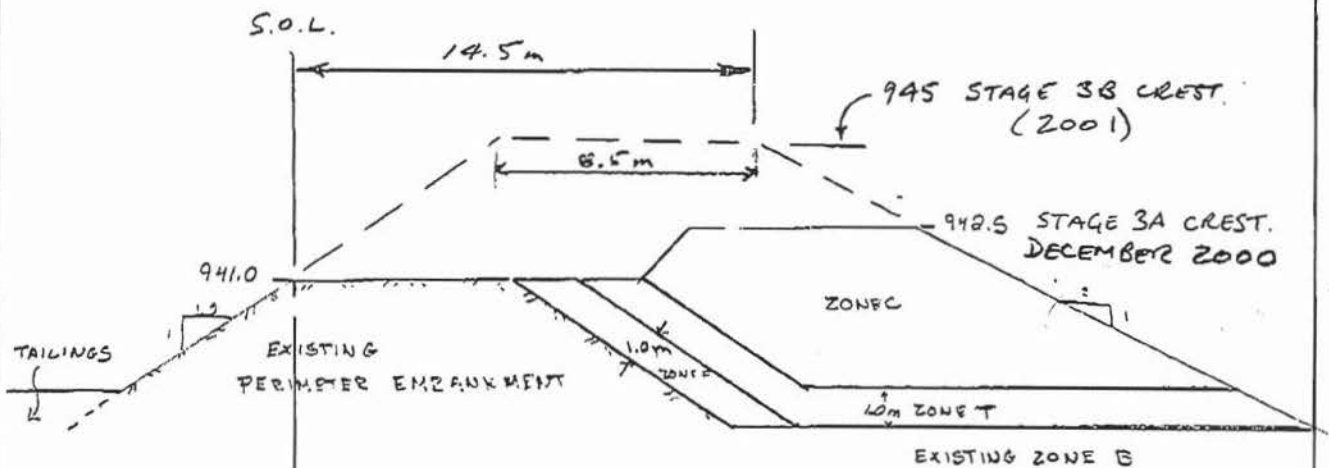
Project: MT POLLEY - STAGE 3A CONSTRUCTIONProject No.: 11162/13

Calculations for: _____

Date: Jan 5/01Calculations by: SGC

Sheet _____ of _____

Checked by: _____ Date: _____



PERIMETER EMBANKMENT
BETWEEN SS 156
CH 28+00 - 32+00
 TYPICAL SECTION

*This is not as per
 design given in May 2000*

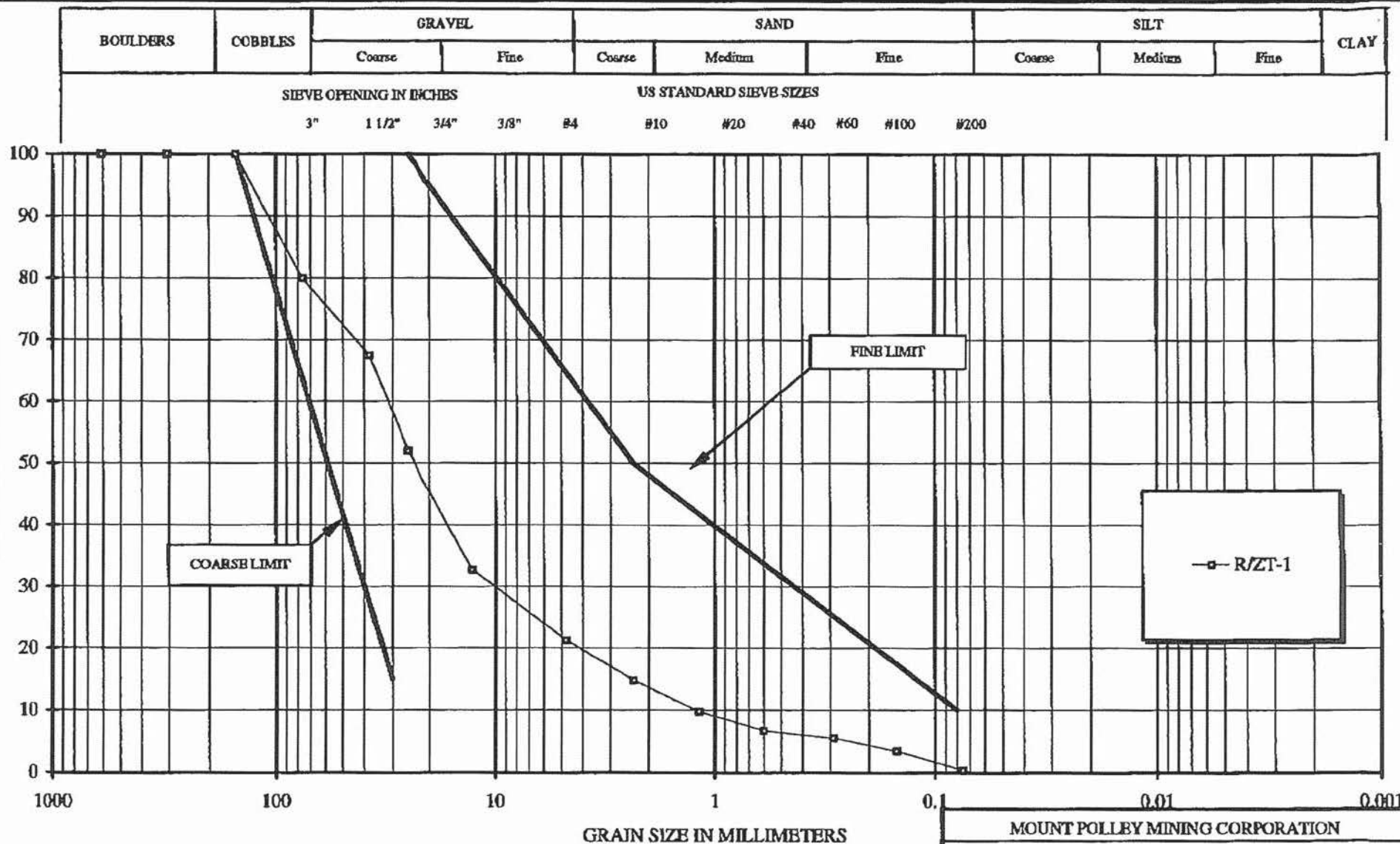
FIGURE 1.3

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JAN 15 '01 14:07

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PERCENT FINER BY WEIGHT



Rev 0 - Issued with Progress Report

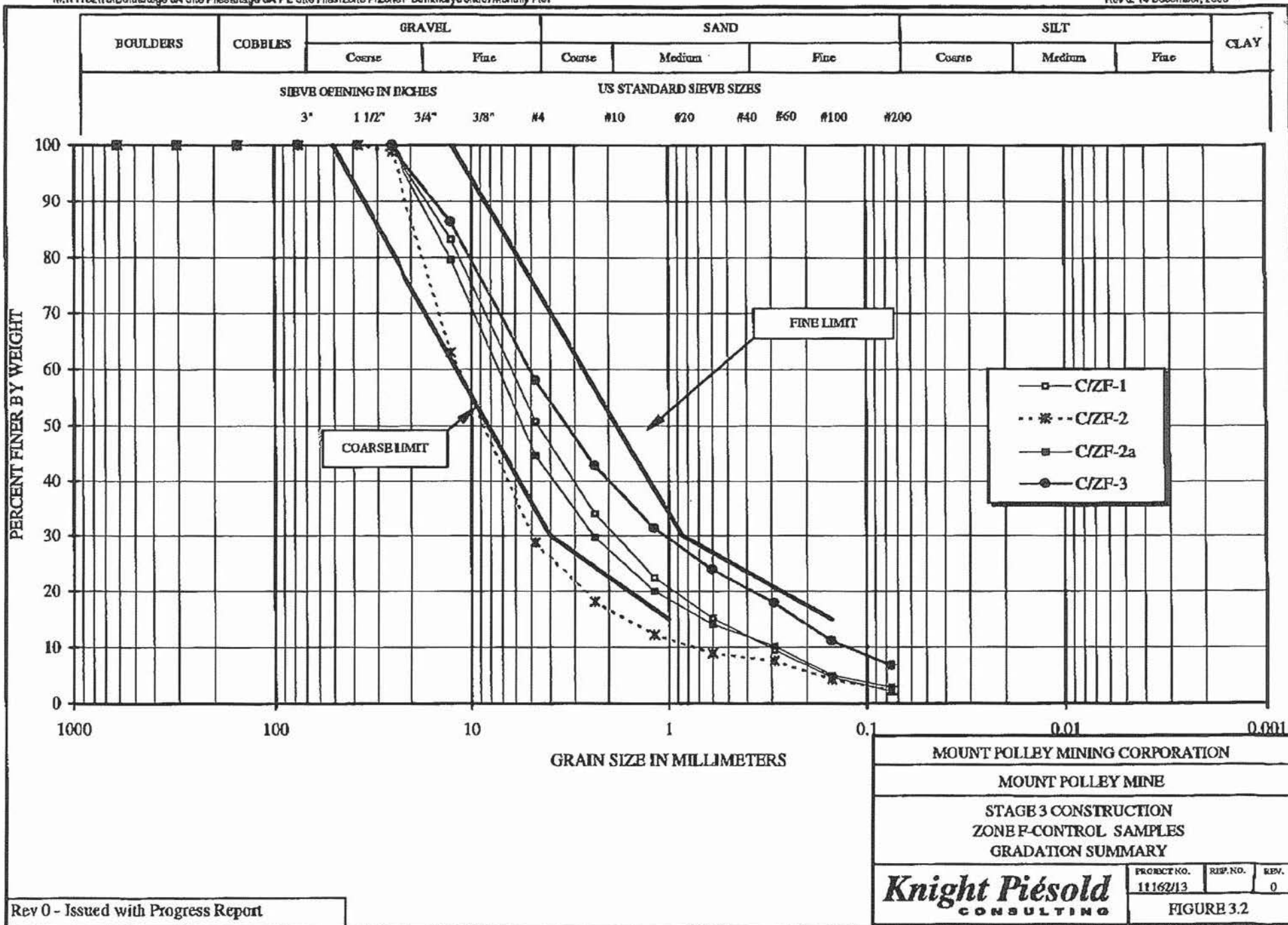
MOUNT POLLEY MINING CORPORATION								
MOUNT POLLEY MINE								
STAGE 3 CONSTRUCTION ZONE T- RECORD SAMPLES GRADATION SUMMARY								
Knight Piesold CONSULTING		<table border="1"> <tr> <th>PROJECT NO.</th> <th>REF. NO.</th> <th>REV.</th> </tr> <tr> <td>11162/13</td> <td></td> <td>0</td> </tr> </table>	PROJECT NO.	REF. NO.	REV.	11162/13		0
PROJECT NO.	REF. NO.	REV.						
11162/13		0						
FIGURE 3.1								

N:\1162\13\Drawings

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F.14





MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
STAGE 3 CONSTRUCTION ZONE F-RECORD SAMPLES GRADATION SUMMARY		
<i>Knight Piesold</i> CONSULTING	PROJECT NO. 11162/13	REV. NO. 0
	FIGURE 3.3	

**KNIGHT PIESOLD
CONSULTING**

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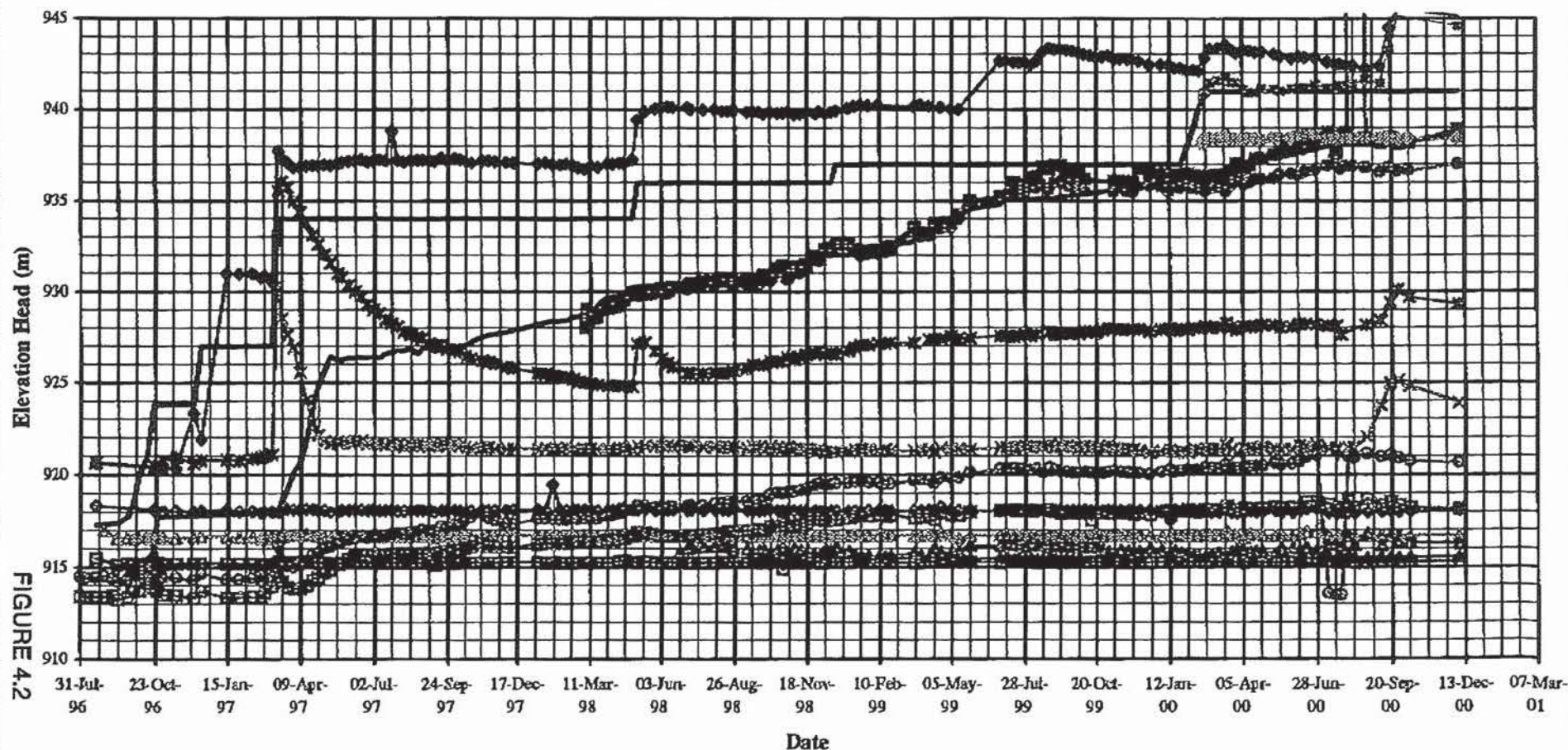
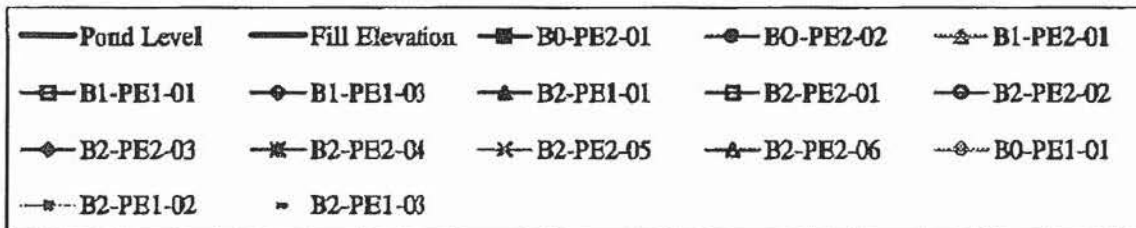
64:5T 13:49 JAN 13 2001

2.1.2

RECORDED 531 Page 136 of 438 . 017

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE B PIEZOMETERS**

KNIGHT PIESOLD
CONSULTING



MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE C PIEZOMETERS

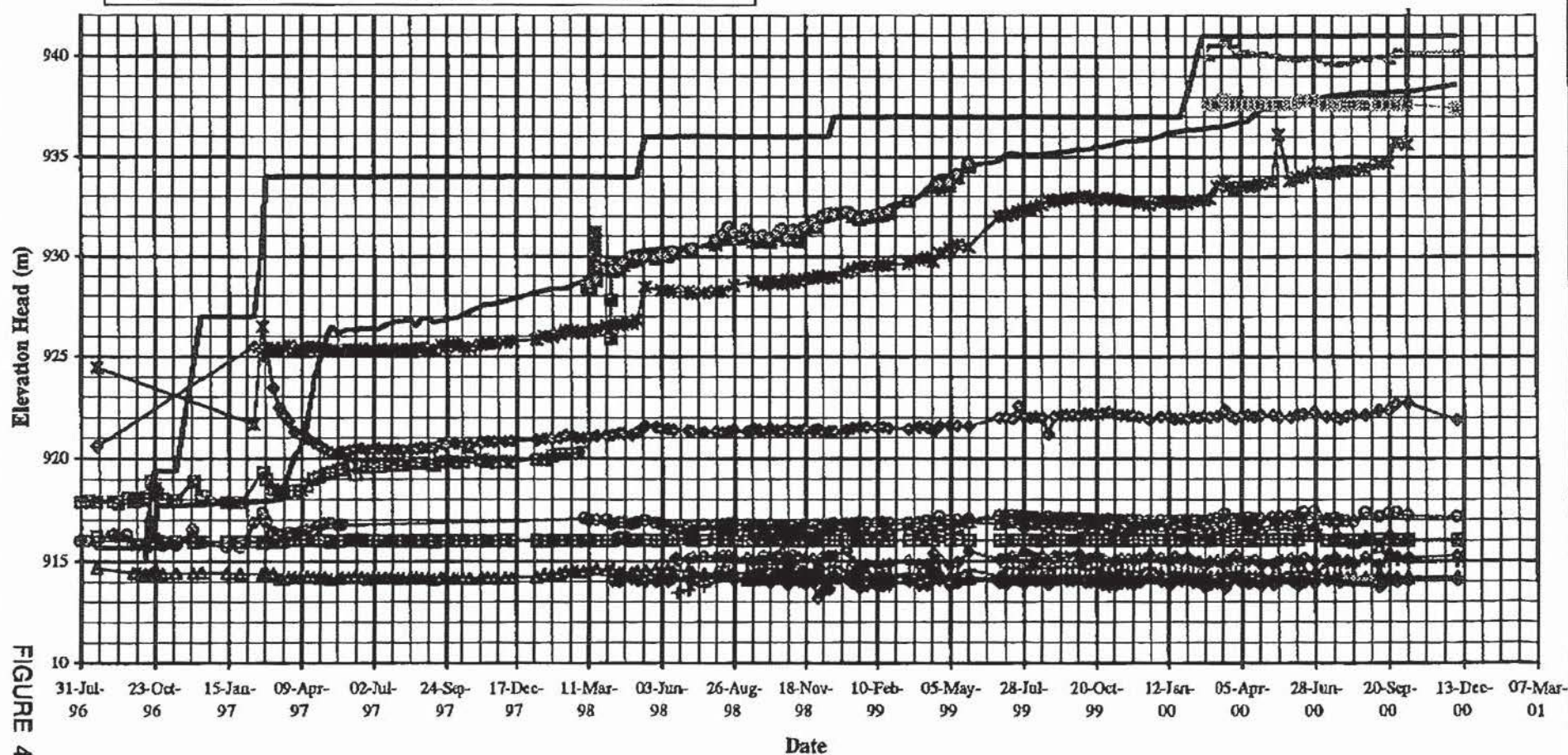
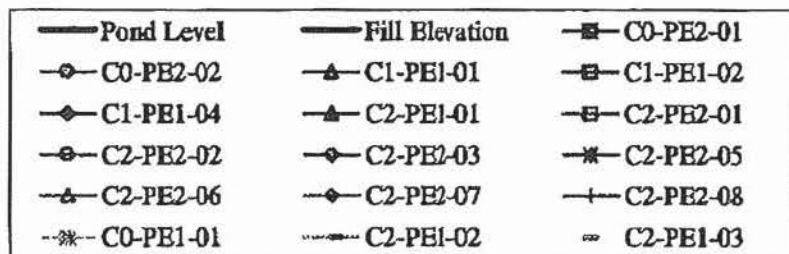


FIGURE 4.3

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE D PIEZOMETERS

— Pond Level — Fill Elevation —■— D1-PE1-02
 —▲— D2-PE1-01 —◆— D2-PE2-01 —■— D2-PE2-02

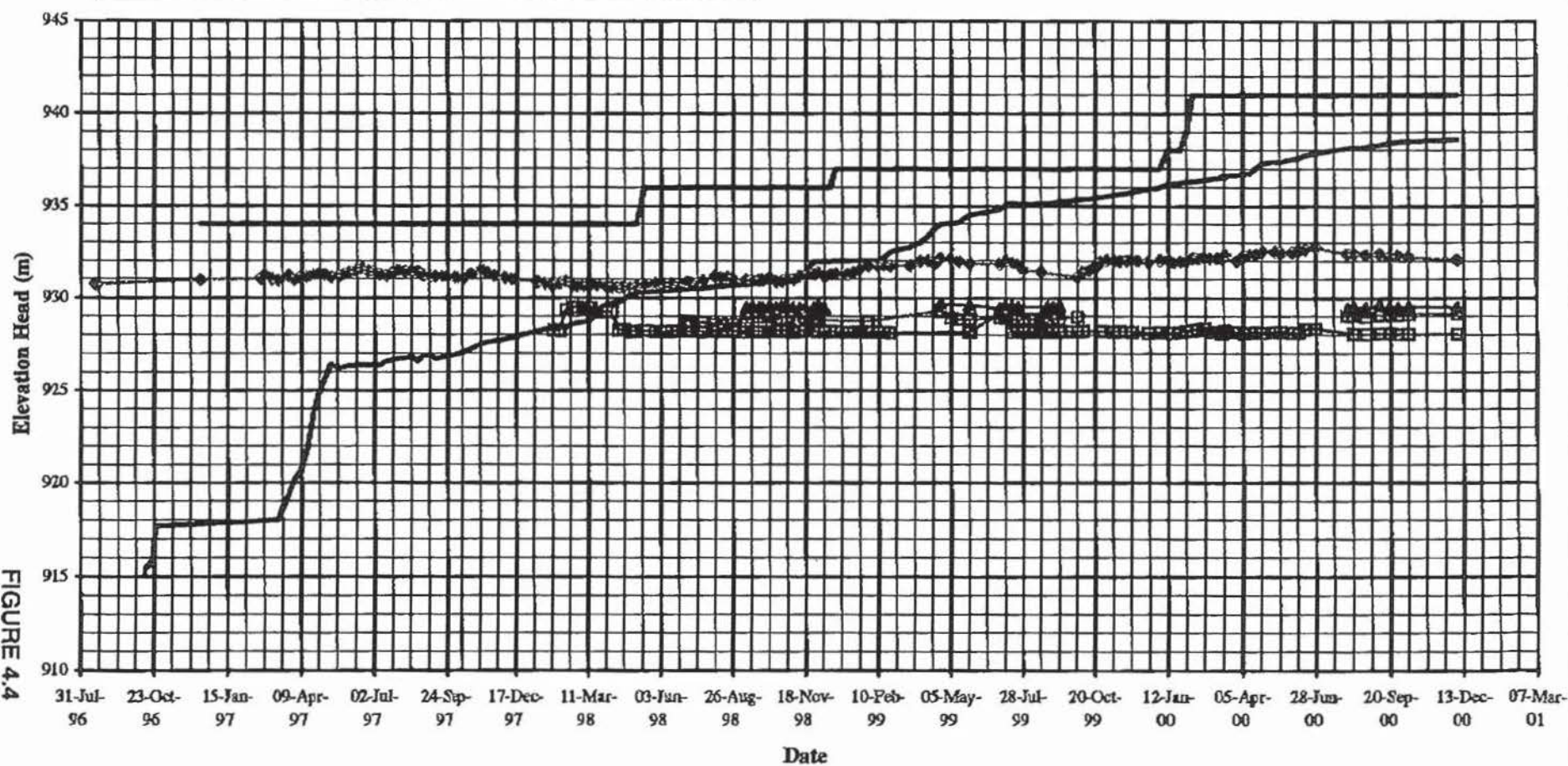


FIGURE 4.4

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE E PIEZOMETERS

KNIGHT PIESOLD
CONSULTING

Elevation Head (m)

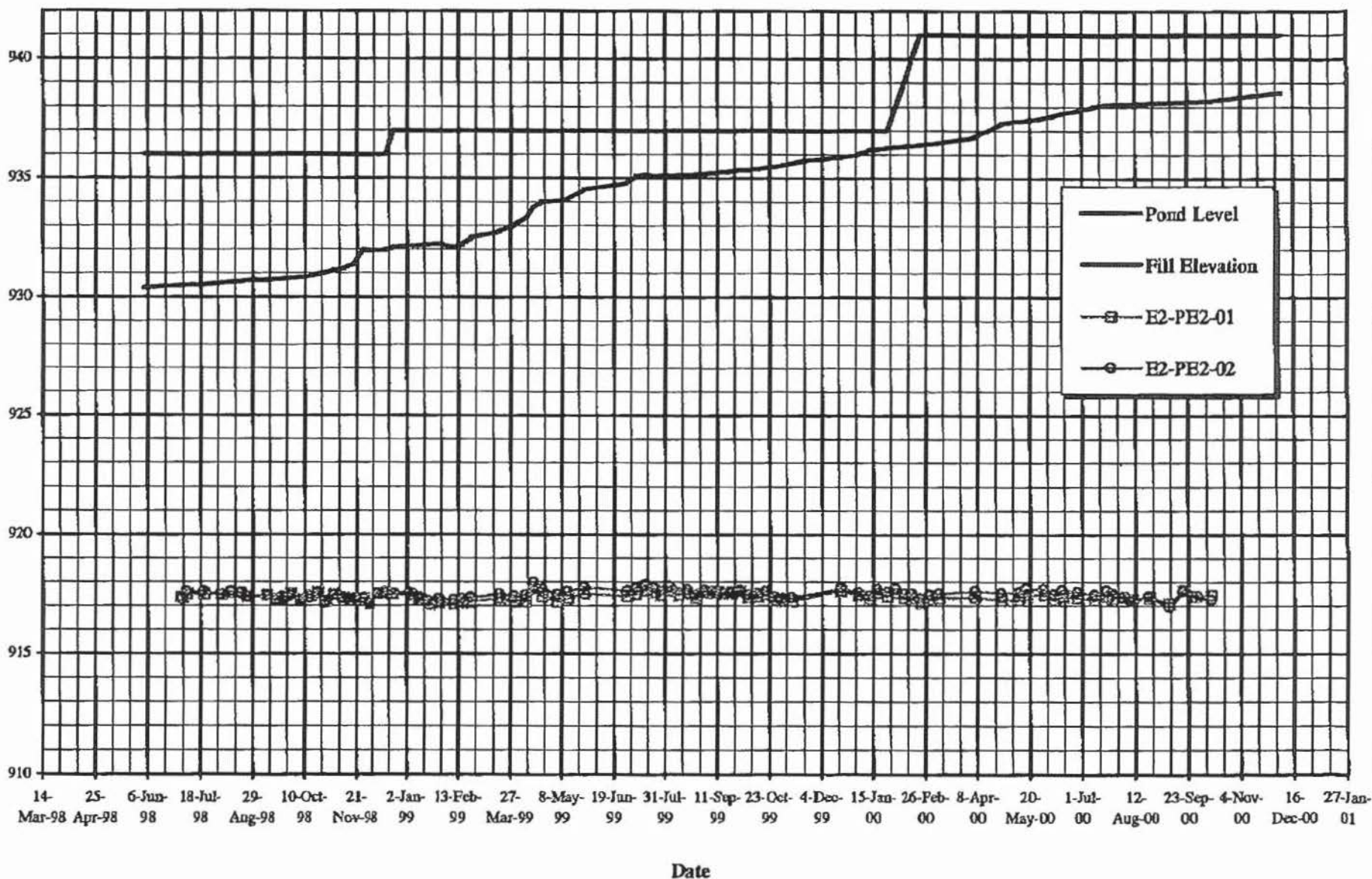
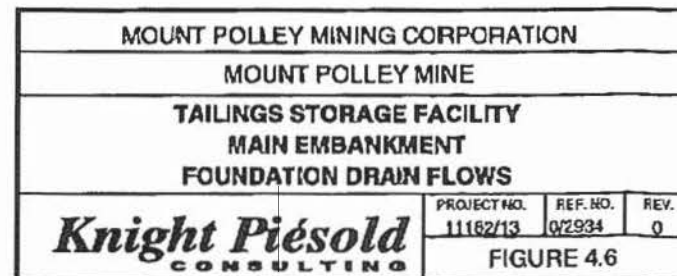
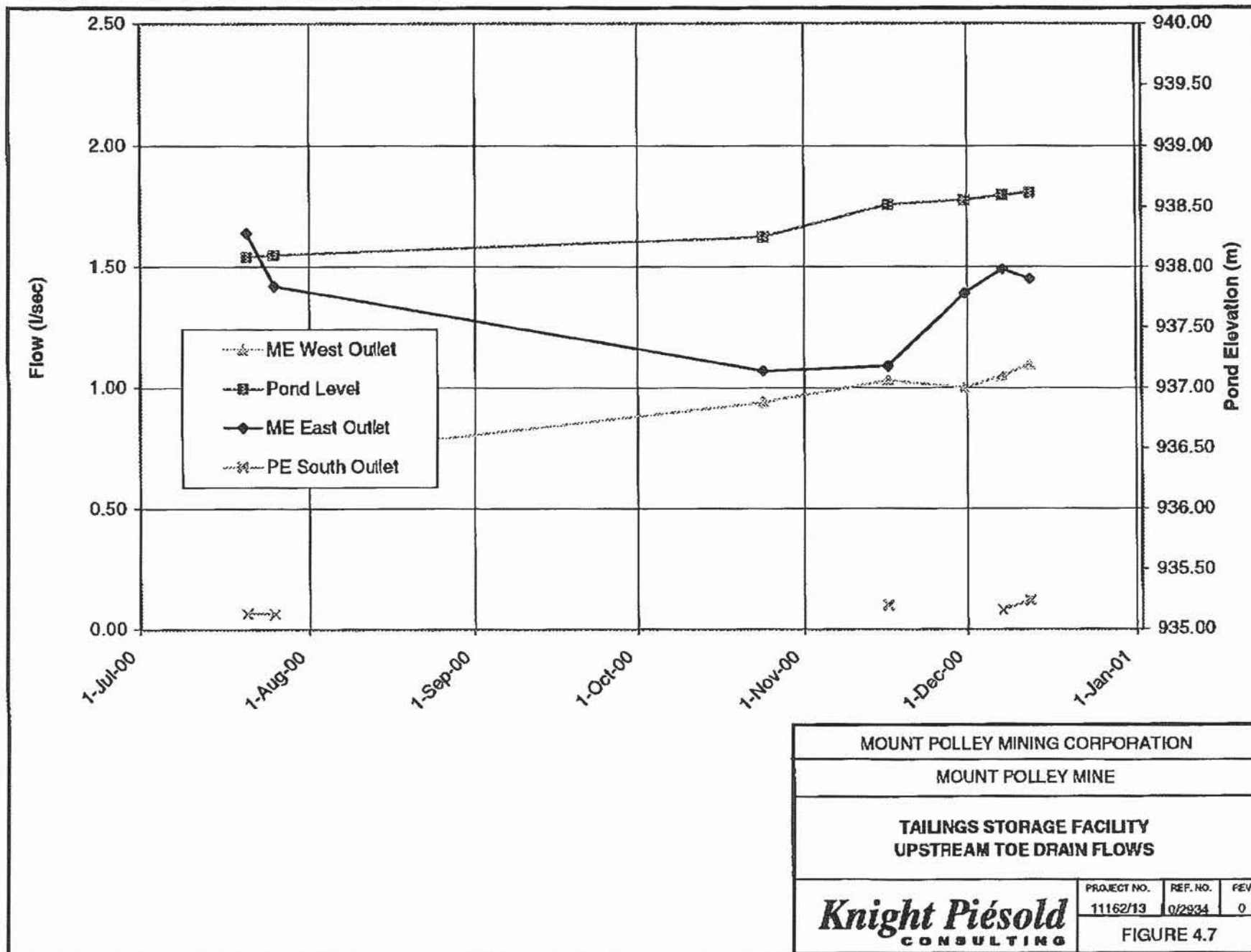


FIGURE 4.5

RECORDS Page 141 of 488 . 0222





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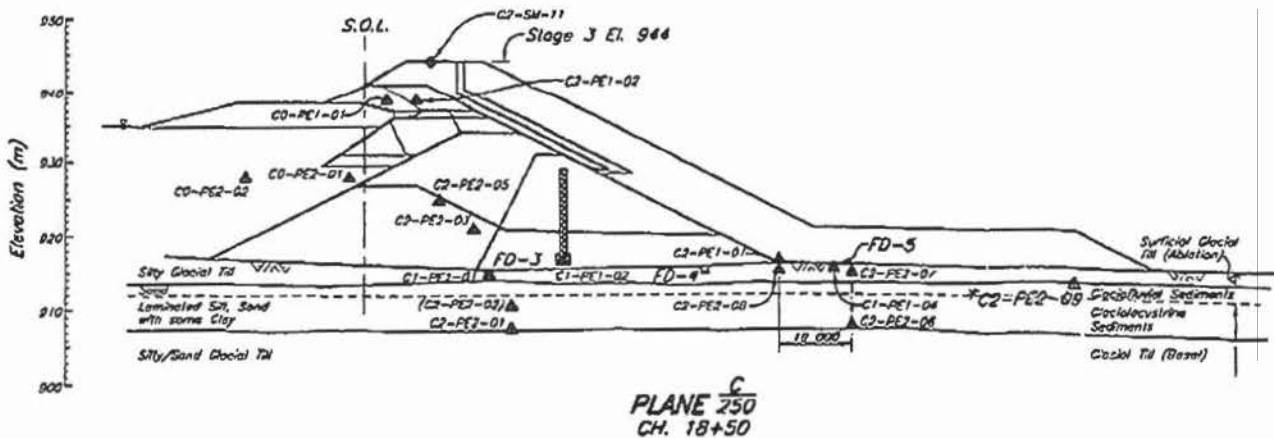
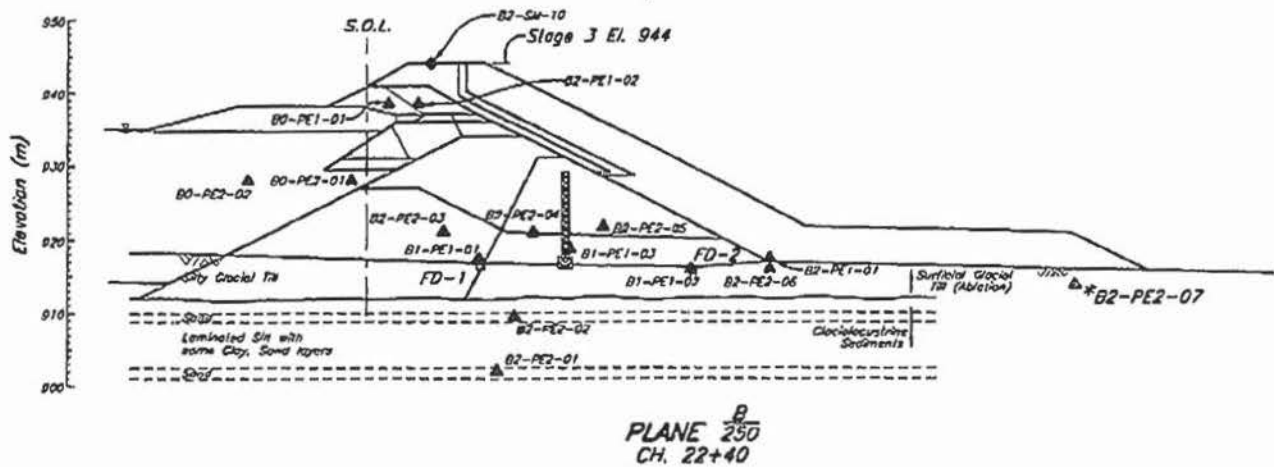
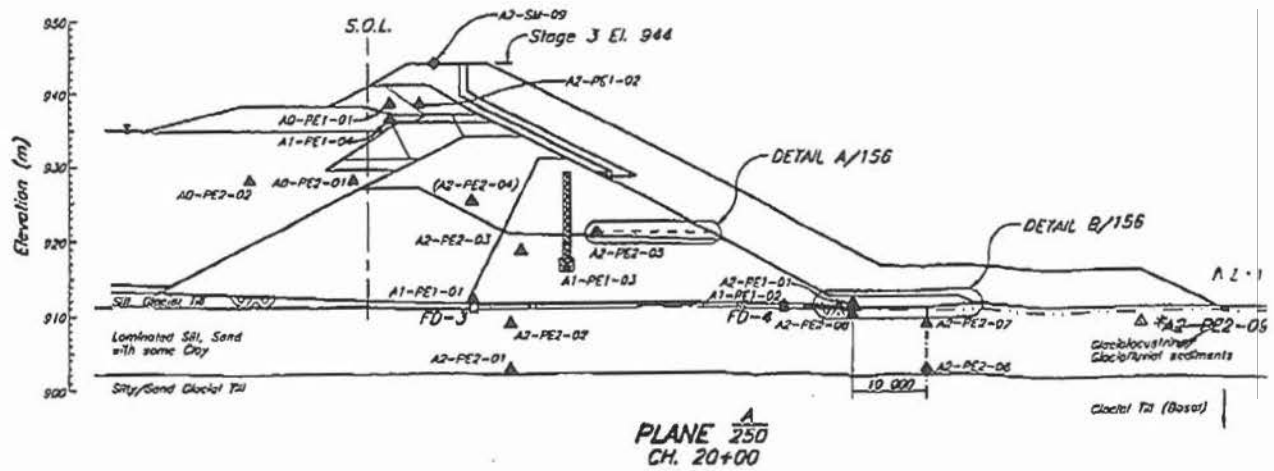
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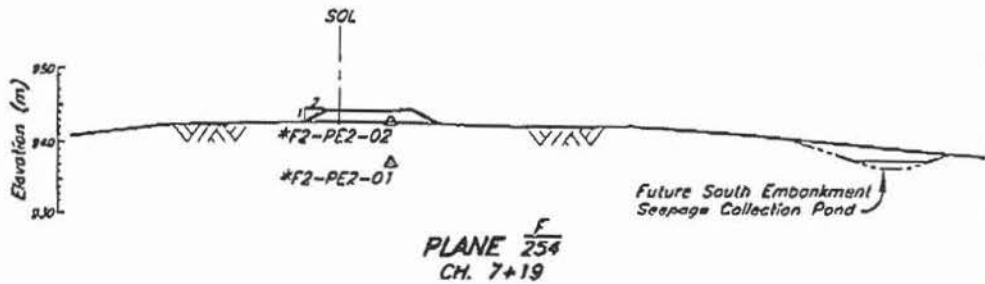
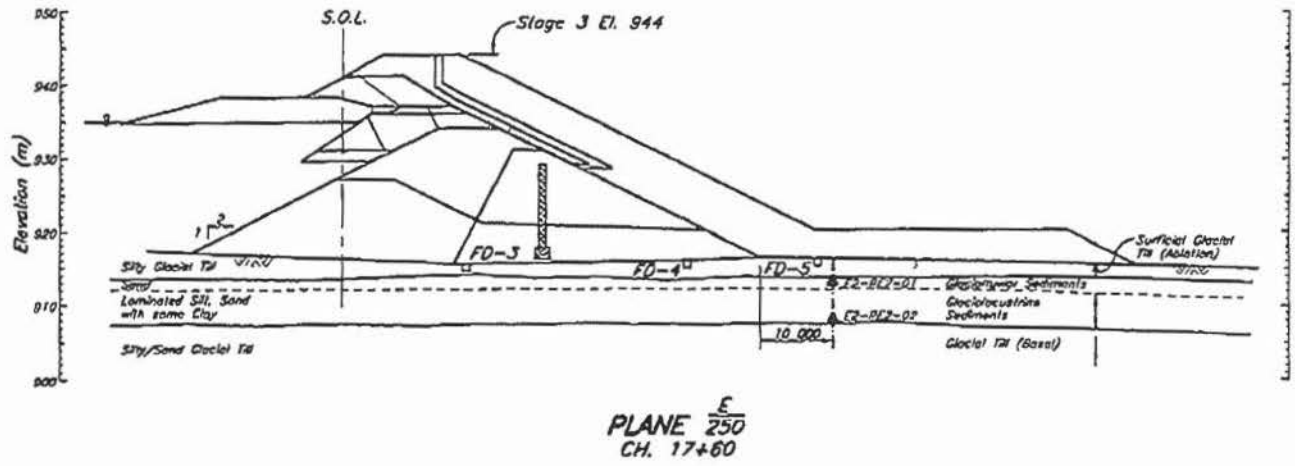
TOE OF TAILINGS

1.70



3 TAILINGS EMBANKMENT - INSTRUMENTATION - SECTIONS 2 OF 2
 1 TAILINGS EMBANKMENT - INSTRUMENTATION - SUMMARY OF INSTALLATION & TYP. DETAILS
 3 MAIN EMBANKMENT - INSTRUMENTATION - PLAN

DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D	REV.	DATE	ISSUED FOR CO
REFERENCE DRAWINGS			REVISIONS							



256	TSF - STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION SUMMARY OF INSTALLATION & TYPICAL DETAILS
254	TSF - STAGE 3 TAILINGS EMBANKMENT - SOUTH EMBANKMENT - INSTRUMENTATION PLAN
250	TSF - STAGE 3 TAILINGS EMBANKMENT - MAIN EMBANKMENT - INSTRUMENTATION PLAN
130	TSF - STAGE 3 SOUTH EMBANKMENT - PLAN AND SECTION
215	TSF - STAGE 3 MAIN EMBANKMENT - SECTIONS AND DETAILS
DRG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED
REVISIONS					

Mount Polley. Stage 3A.

Progress Report No. 7.

- ① Setting out points on plan
- ② Transition between up/eyelone sand bar
+ downstream rock pile. Info reviewed.
- ③ Why pierce lands for B2-PE2-03
C2-PE2-05
- ④ Continue to monitor for signs of instability
How?

Phone call from Eric Leneve on Jan 11/01.

- progress report #7 to be reviewed - mistakes present.
- call Jeremy Kinch (Knight Presold) re guest questions

Knight Piesold
CONSULTING

Knight Piesold Ltd. Tel: +1 (604) 685-0543
1400 - 750 West Pender St Fax: +1 (604) 685-0147
Vancouver, BC V6C 2T8 Fax: +1 (604) 687-2203
CANADA www.knightpiesold.com

DATE: February 5, 2001 FILE NO.: 11162/14.01
TIME: REF NO.: 1/0386
OPERATOR: PAGES: 1 of 23
SENDER: Wilson Muir APPROVED: *EJB.*

TO: MPMC FAX: (250) 790-2268
ATTN: Eric LeNeve
CC: Chris Carr, MEMND (250) 952-0481
SUBJECT: Mount Polley TSF - Progress Report No. 8

*CAZ → EJA then → File
12/2/01*

MINISTRY OF
ENERGY AND MINES

REC'D FEB 06 2001

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 3 CONSTRUCTION

PROGRESS REPORT NO. 8 – January 16 to January 29, 2001

SECTION 1.0 –GENERAL

Construction of the Stage 3a raise for the Tailings Storage Facility Perimeter Embankment, from Chainage 32+00 to 45+00, was resumed on January 16, 2001. The scope of work includes:

1. Removal of frozen Zone S with observed ice lenses and frozen cycloned sand that had accumulated on the Zone S crest during cycloning operations in the fall of 2000.
2. Placement of Zone S to Elevation 941.3 m. The excavated surface ranged from El. 940.2 to 940.8 m.

1.1 **PERSONNEL**

Mount Polley Mining Corporation (MPMC) management personnel overseeing the Stage 3 work are as follows:

Eric LeNeve, Tailings Coordinator
Don Parsons, Mine Superintendent
Charlie O'Hara, General Foreman
Don Jameson, Site Foreman

The following Knight Piesold Ltd. (KP) representatives were on site during the reporting period:

Wilson Muir, Site Engineer – Arrived on site January 15, left site January 29, 2001.
Harvey Dew, Senior Engineer – Arrived on site January 24, left site January 25, 2001.

1.2 **WEATHER**

Weather conditions over the period were variable, with a mix of sun and clouds and occasional periods of light snow. Temperatures ranged from about -10°C to +1°C during the day.

Work was stopped during the afternoon of January 28 until the end of the reporting period due to heavy snowfalls.

1.3 DESIGN DEVELOPMENTS

Recent review of the project water balance indicates that a core zone elevation of 941.0 m is sufficient to provide storage for tailings, supernatant water and the 24 hour PMP event until the end of May, 2001. An additional 1 m is required for wave run-up protection, and this may be achieved with cycloned sand or rockfill. Constructing the Zone S to 941.3 m will provide storage until the end of August. *when*

The filling schedule indicates that a crest elevation of 945 m is sufficient to meet storage and freeboard requirements through August 2002. This is 1 m higher than the currently permitted crest elevation of 944 m. Revisions to the construction drawings are currently in progress, and a request to revise the existing permit will be issued to MEMND upon completion. ||

A review of embankment stability is underway. Work to date comprised a review of pore water pressure data. The stability model will be revised to reflect updated conditions since the last comprehensive review during Stage 3 design in 1999. The goals of the review include:

- Verification that existing pore water pressures in the embankment fill and foundations are less than those incorporated into the stability model;
- Review of piezometer trigger levels. These were reviewed in 1999 and it was not necessary to revise them. The placement of rockfill in 2000 increased embankment stability, thus increasing the conservatism of the trigger levels.
- Assessment of the requirement for inclinometers or similar displacement monitoring instrumentation at the Main Embankment. Inclinometers were recommended in the Report on On-going Construction Requirements (10162/9-3, 1998) and the use of rockfill as opposed to cycloned sand in the downstream Stage 3 fill facilitates their installation and continued use. These instruments would typically be installed in

downstream embankment fill and extend into the overconsolidated glaciolacustrine foundation materials.

- Verification of the stability of the Stage 4 Tailings Embankments (El. 948 m).

The review of embankment stability is part of the Annual Inspection and the results will be presented in the 2000 Annual Inspection Report. ✓

1.4 TAILINGS FACILITY OPERATION AND MAINTENANCE

Harvey Dew, KP Senior Engineer and Eric LeNeve, MPMC Tailings Coordinator, carried out a thorough inspection and evaluation of the tailings pipeline from January 24 to 25. It was discovered that a large quantity of pressurized air was in the pipeline, restricting tailings flow in the line. Manual air release valves were added to the existing gauge setups at 4 locations; immediately downstream of the T2 dropbox, immediately upstream of the Bootjack Creek crossing, between the two aforementioned locations, and at the M1A upper dump valve. This system allows for the release of pressurized air and permits the tailings within the pipeline to flow more efficiently. Flow velocity at the exit of the line (approximate Ch. 25+00) is observed to be more consistent and backups have been eliminated. It is believed that this improvement will allow MPMC to extend the pipeline towards the South Embankment and begin to release tailings in this area. ✓

1.5 SAFETY

No safety incidents were reported for the period.

SECTION 2.0 – CONSTRUCTION ACTIVITIES

2.1 EQUIPMENT

MPMC used the following equipment over the reporting period:

- Excavators – 1 Hitachi EX 270, 1 Hitachi EX400 and 1 Cat 330RB
- Haul Trucks – 4 Moxy 30T articulated
- Dozers – 1 Cat D7, 1 Cat D8, 1 Cat D6, 1 Cat D10
- Compactors – 1 10T Cat CS563
- Sand truck, service trucks, fuel trucks

2.2 ACTIVITIES

The major construction activities for the reporting period are summarized below.

Perimeter Embankment

Removal of snow, ice, Zone S with observed ice lenses and frozen cycloned sand, Ch. 32+20 to 44+00, El. 940.2 to 941.0 m. Sections were cleaned with dozers and excavators.

Following cleaning and approval of the excavated surface, Zone S placement was carried out from Ch. 32+20 to 43+20, El. 940.2 to 941.3 m.

SECTION 3.0 – KNIGHT PIESOLD ACTIVITIES

3.1 GENERAL

KP site activities over the reporting period included the following:

- Inspection and documentation of construction activities.
- QA/QC collection and testing of Zone S record samples.
- Preparation of daily inspection reports.
- Review of embankment monitoring data provided by MPMC.
- Assistance to MPMC in the surveys carried out at the embankment.

3.2 LABORATORY TESTING

The following samples were collected and tested on site over the reporting period:

- Zone S record sample R/ZS-6

The results of the testing are provided on Table 3.1 and Figure 3.1.

The results show that the Zone S record sample meets the specifications for particle size distribution. ✓

SECTION 4.0 - EMBANKMENT MONITORING

Monitoring of tailings embankment instrumentation over the reporting period indicates that the embankment is performing well within design tolerances. ✓

4.1 VIBRATING WIRE PIEZOMETERS

Piezometer readings are obtained on a weekly basis. The results of the monitoring are shown on Figures 4.1 to 4.5, and are summarized below. Locations of the piezometers are shown on attached drawings.

Foundation Piezometers

The Main Embankment foundation piezometers have typically shown slight fluctuations in pore water pressure since December 6th. The largest increases have been about 0.9 m in Plane B.

No substantial changes were noted in the Perimeter Embankment (Plane D) or South Embankment (Plane F) foundation piezometers. ✓

Fill Piezometers

Most of the Main Embankment glacial till piezometers responded to construction of the overlying Stage 3 fills with increasing pore pressures. Since the last set of readings the piezometers have shown either slight fluctuations, or a continuing decreasing trend. ✓

Two piezometers located within Stage 1a glacial till fill have historically registered anomalous values, and warrant discussion. // *

Piezometer B2-PE2-03 reacted strongly to fill placement during initial construction. Pore water pressures did not dissipate in the periods following fill placement, but remained steady. This is in direct contrast to other similarly located instruments. This trend changed in 1999, when B2-PE2-03 began to show dissipation at the completion of fill

placement. This new trend has been repeated three times, with approximately the same rate of dissipation after each stage of construction. In each case, the period of dissipation was interrupted by the next stage of construction, with an increase in pore water pressure between 100 and 50 percent of the increase in total stress. It appears that drainage paths were limited in the fill around B2-PE2-03 and pore water pressures are still equilibrating.

✓
affect
stability
is it local?

Piezometer C2-PE2-05 is also located within Stage 1a glacial till fill. This instrument historically showed little or no reaction to construction, but rather indicated a slow, steady increase in pore water pressure over time. This suggests that pore water pressures in the fill around C2-PE2-05 are reaching a steady state condition as the phreatic surface moves through the fill. It should be noted that the pressure head registered by C2-PE2-05, approximately 10 m, is similar to other piezometers located in comparable positions within glacial till fill.

Plots of elevation head and u_0 with time for B2-PE2-03 and C2-PE2-05 are presented in Figures 4.7 and 4.8.

Drain Piezometers

All drain piezometers have remained static and at a very low head indicating free draining conditions within the embankment drainage system.

Tailings Piezometers

Water levels at the tailings piezometers continue to mimic the pond level, except at the Main Embankment, where the upstream toe drain has resulted in a depressed phreatic surface.

4.2 DRAIN FLOWS

Results of foundation drain outlet monitoring are shown on Figure 4.9. Results of monitoring of the upstream toe drains outlets are shown on Figure 4.10.

The readings from January 19 indicate that the fill is draining and that the flow rates are normal.

KNIGHT PIESOLD Fax: 0040030147 FEB 6 2001 10:00 1.00

The readings in all cases show a significant decrease from the anomalous high values observed on October 24, although some of the readings still remain slightly above the range of previously recorded values. There has been no visible sediment in the flows from the foundation drains.

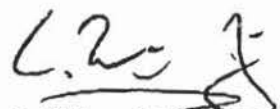
Monitoring of the upstream toe drain shows slight fluctuations in flows, likely due to the increasing pond level as well as the changing tailings slurry discharge locations.

SECTION 5.0 – ONGOING ITEMS

The following items will be addressed during upcoming reporting periods:

- MPMC will continue to monitor the Perimeter Embankment at the completion of the current construction activities.
- MPMC and KP will continue to review the Perimeter Embankment construction scheduling.
- KP Personnel will visit the site as necessary for construction inspections.

Submitted by:


C. Wilson Muir P.Eng.
Resident Engineer
Mount Polley Site

Distribution:

Eric LeNeve, Don Parsons	Mount Polley Mining Corporation
Chris Carr	Ministry of Energy, Mines and Northern Development
Ken Brouwer	Knight Piesold Ltd., Vancouver

TABLE 3.1
MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
STAGE 3 CONSTRUCTION
ZONE 5 RECORD TEST SUMMARY SHEET

\\mnp\proj_36111\PH\DATA\Stage 3A Site File\LA Testing\Zone 5\R-ZS-3-1 Summary Table

Revised: 05 Feb 01
 Draw Period: 05 Feb 01

Date Sampled	Sample No.	Location	Elev. (m)	R1			R2 Field m/c	R3 (Particle Size Distribution)																R4		R6 Specific Gravity	R7	
				Atterberg Limits																				Standard Proctor			Field Density	
				PL	LL	PI		6	3	2	1.5	1.000	0.750	0.500	0.375	#4	#10	#20	#40	#60	#100	#200	Max Dry Density kg/m ³	Optimum m/c %	Dry Density kg/m ³		Compaction %	
				%	%	%		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%		%	
19-Sep-00	R-ZS-3-1	Ch. 27+00	941.2	13.9	24.3	10.6	9.8	100.0	100.0	100.0	100.0	98.0	95.6	92.6	90.5	84.1	78.8	73.4	69.1	63.7	57.2	44.3	2110	8.8	1.636	2103	99.9	
21-Sep-00	R-ZS-3-2	Ch. 16+00	941.0	13.6	24.4	10.8	9.3	100.0	100.0	100.0	98.8	93.3	93.0	89.2	87.3	83.2	80.1	75.2	70.9	65.8	59.9	48.7	2018	9.6	2.623	2091	103.7	
22-Sep-00	R-ZS-3-3	Ch. 22+60	941.6	13.7	24.4	10.7	9.9	100.0	100.0	100.0	100.0	97.6	95.4	91.0	88.4	82.5	78.3	74.2	69.8	63.5	56.7	44.3	2109	8.4	2.605	2142	101.6	
23-Sep-00	R-ZS-3-4	Ch. 8+40	-	14.0	22.1	8.8	9.6	100.0	100.0	100.0	99.1	95.4	93.4	90.5	88.0	83.3	78.7	74.5	70.3	64.4	58.2	45.1	2141	7.8	2.673	2092	97.7	
26-Sep-00	R-ZS-3-5	S.E. Zone 5 Fill	-	13.4	22.1	9.1	8.9	100.0	100.0	100.0	97.7	93.0	92.8	88.5	85.8	77.3	72.7	68.3	62.0	54.2	43.5	39.6	2140	7.2	2.674	2236	104.5	
22-Jan-01	R-ZS-3-6	Ch. 33+00	941.3	-	-	-	10.3	100.0	100.0	100.0	100.0	100.0	97.2	94.0	91.7	88.0	84.8	80.0	74.7	69.0	62.1	50.0	2075	10.8	-	2064	99.5	
MEAN				14	24	10	9.6	100.0	100.0	100.0	99.3	96.9	94.6	91.0	83.6	83.4	78.9	74.3	69.5	63.4	56.3	45.3	2099	8.8	2.44	2122	101.1	
MEDIAN				14	24	11	9.7	100.0	100.0	100.0	99.6	96.5	94.4	90.8	88.2	83.7	78.8	74.4	70.0	64.1	57.7	44.7	2110	8.6	2.62	2100	100.7	
MAXIMUM				14	25	11	10.5	100.0	100.0	100.0	100.0	100.0	97.2	94.0	91.7	88.0	84.8	80.0	74.7	69.0	62.1	50.0	2141	10.8	2.67	2236	104.5	
MINIMUM				13	23	9	8.0	100.0	100.0	100.0	97.7	93.0	92.8	88.5	85.8	77.3	72.7	68.3	62.0	54.2	43.5	39.6	2018	7.2	1.64	2064	97.7	

Notes:

- Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.
- R-ZS-3-6 tested in BPMC Laboratory using 3", 1 1/2", 1", 3/4", 3/8", #4, #8, #16, #30, #50, #100, #200 sieves. Values in above table are interpolated where necessary.

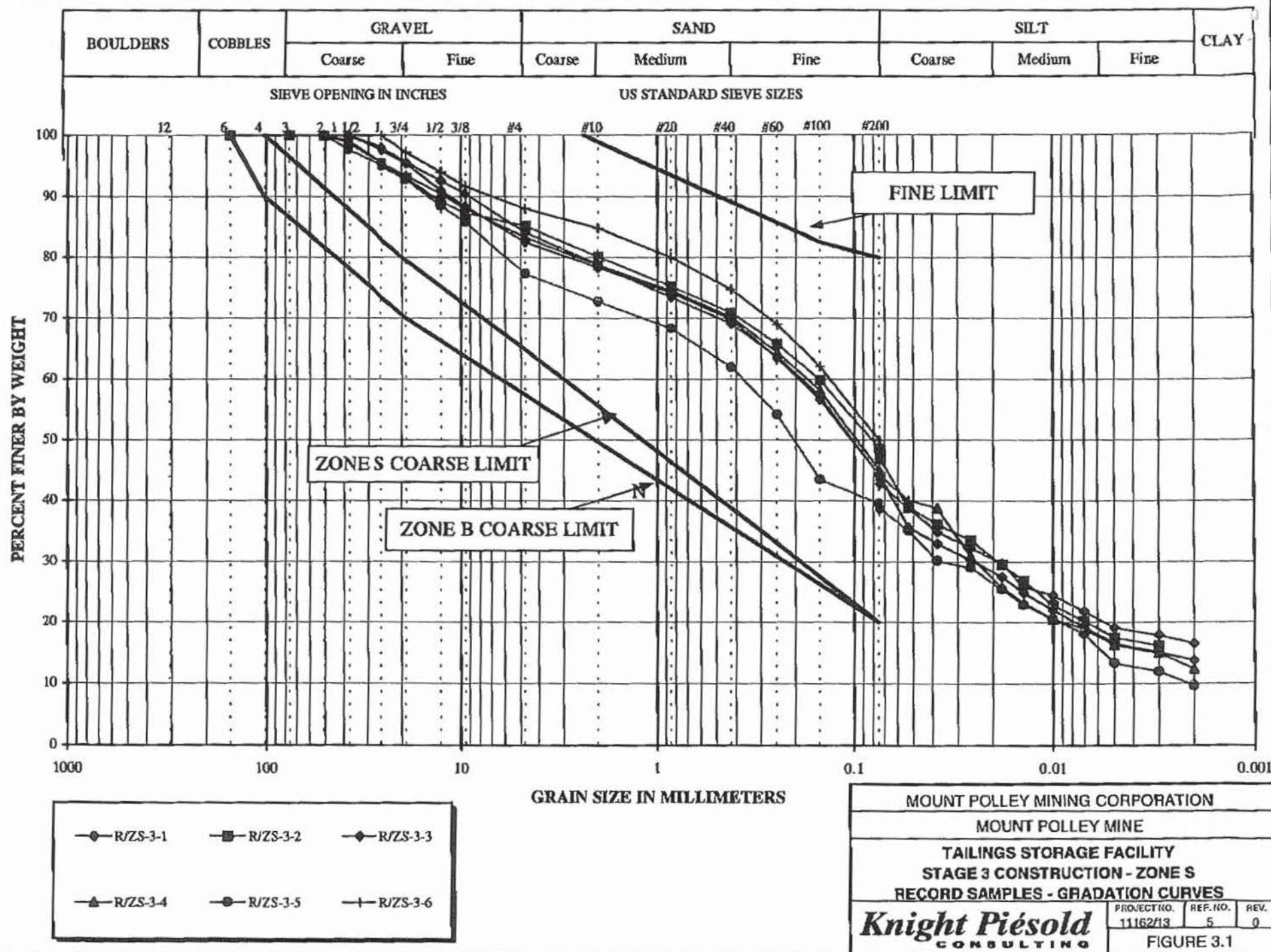
R1	Atterberg Limits (ASTM D4318)	R4	Laboratory Compaction (ASTM D1557)
R2	Moisture Content (ASTM D2216)	R6	Bulk Specific Gravity (ASTM C127)
R3	Particle Size Distribution (ASTM D422)	R7	Field Density by Nuclear Methods (ASTM D2922)

CONTACT: 111011

[illegible]

1000 700 500 300 200 100 0

• 4 •



**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE A PIEZOMETERS**

- - - Pond Level	— Fill Elevation	* A0-PE2-01	+ A0-PE2-02
—△ A1-PE1-01	—□ A1-PE1-02	◇ A1-PE1-03	—▲ A2-PE1-01
—□ A2-PE2-01	—○ A2-PE2-02	◇ A2-PE2-03	—× A2-PE2-05
—△ A2-PE2-06	—◇ A2-PE2-07	+ A2-PE2-08	—+ A1-PE1-04
— A2-PE1-02	—× A0-PE1-01	◇ A2-PE1-03	

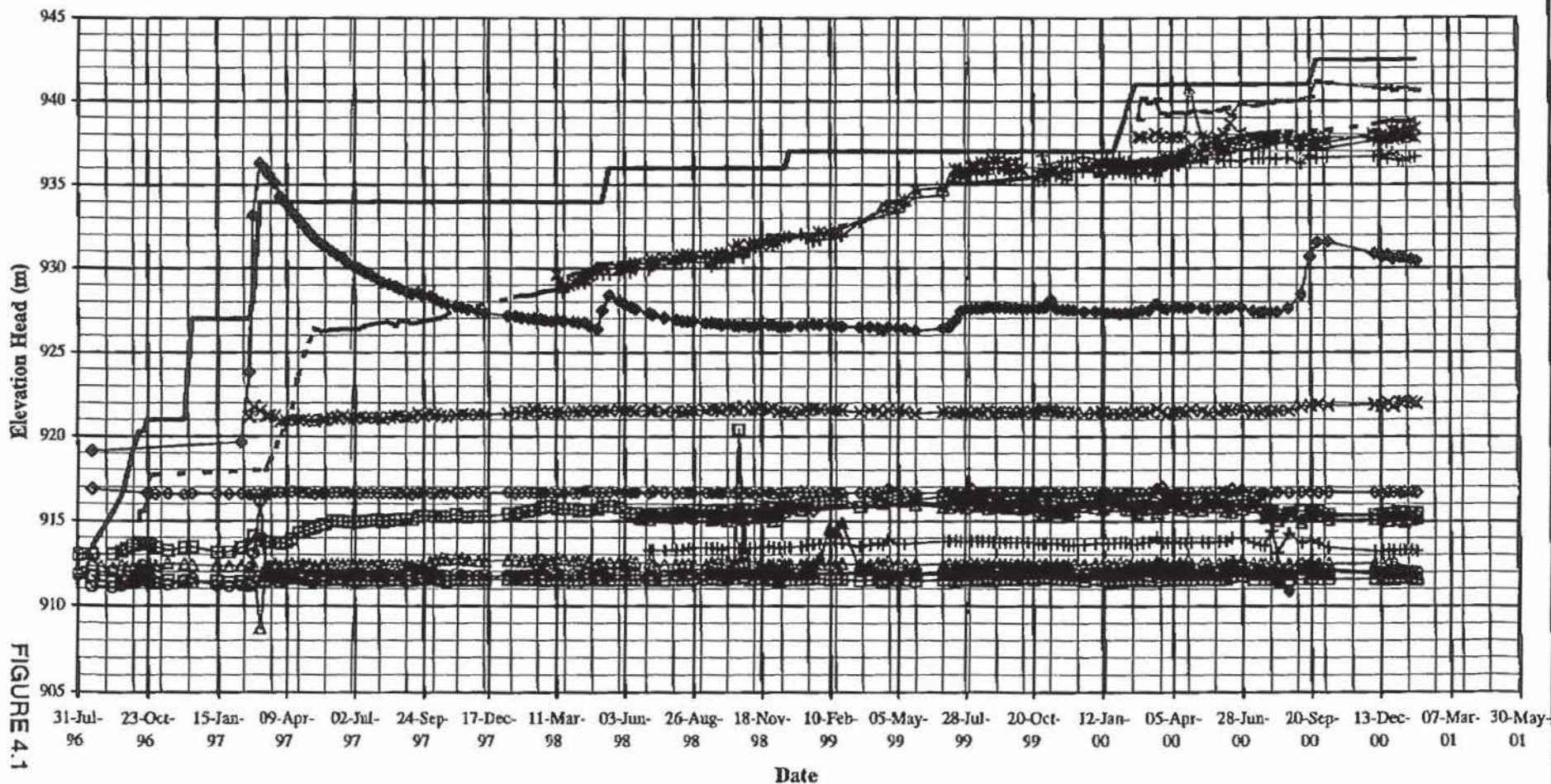


FIGURE 4.1

KNIGHT PIESOLD
CONSULTING

FEB 06 '01 10:21

RECORDS-18 Page 156 of 498 .011

KNIGHT PIESOLD

FAX: 0040800147

FEB 0 2001 10:01

F.11

FEB 06 '01 10:21

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE B PIEZOMETERS

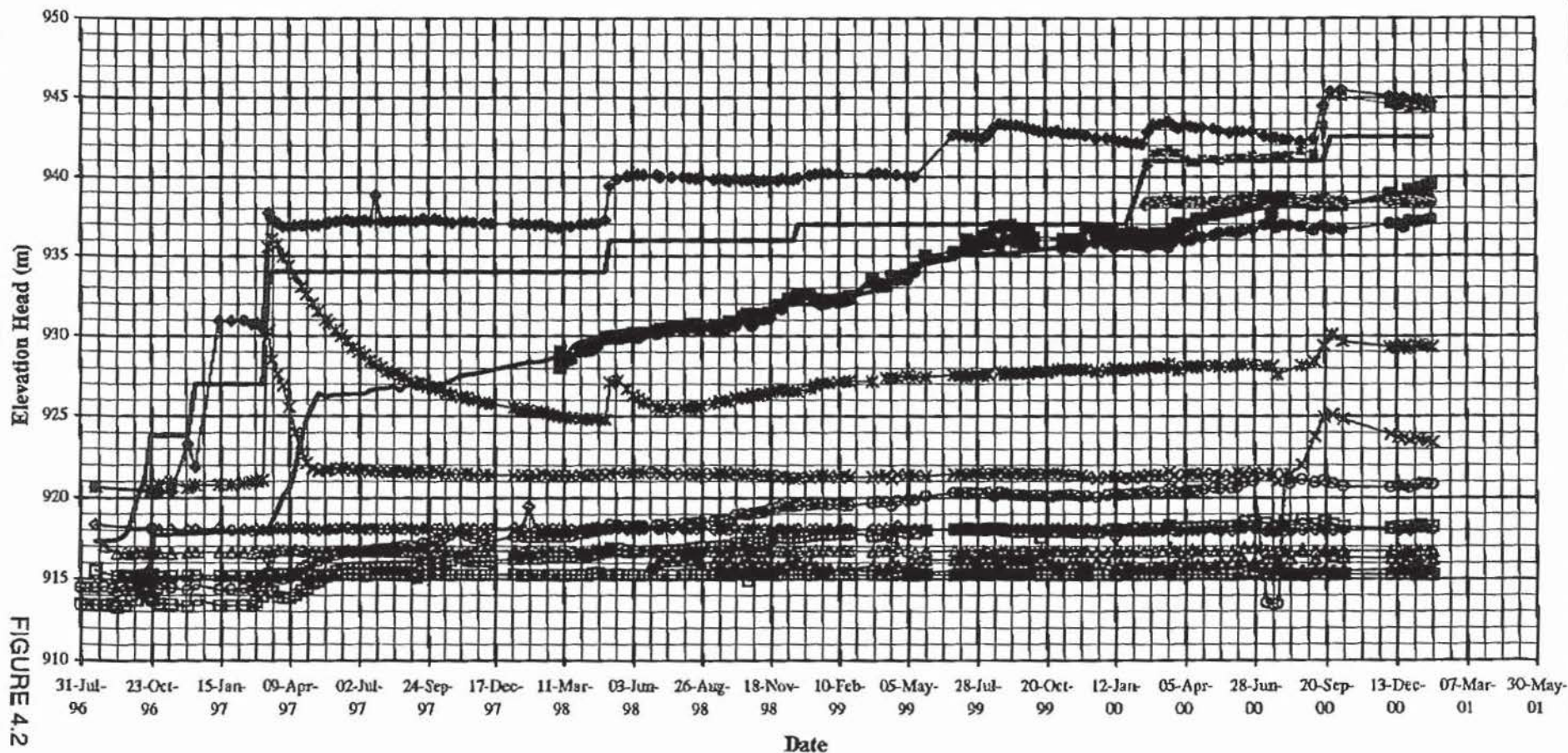
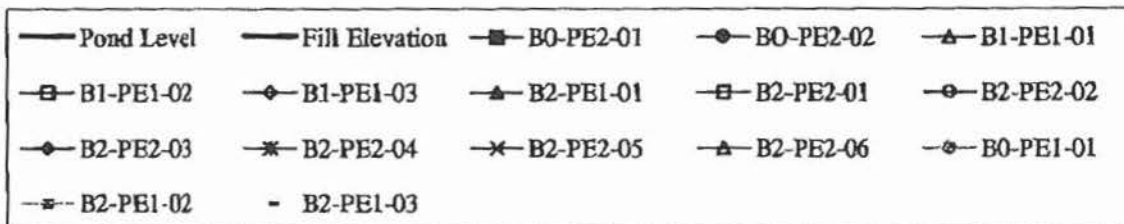


FIGURE 4.2

KNIGHT PIESOLD

FAX: 004000141

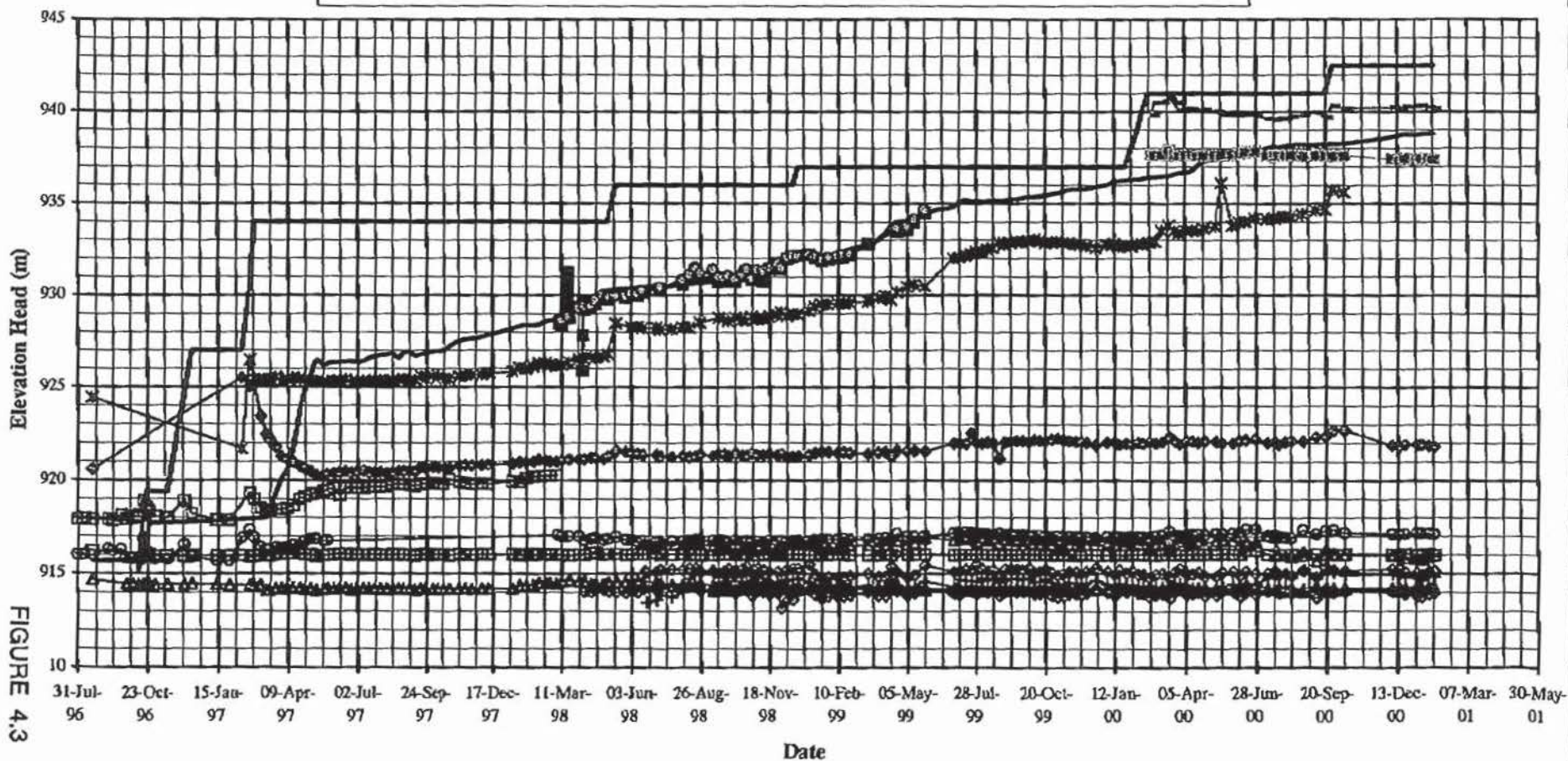
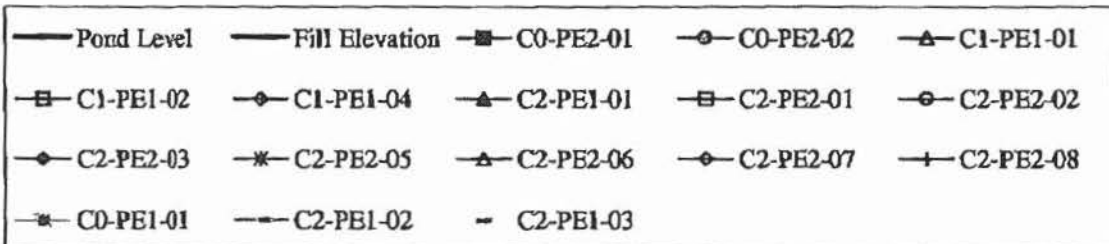
FEB 0 2001 10:02

P.12

FEB 06 '01 10:21

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE C PIEZOMETERS



KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE D PIEZOMETERS

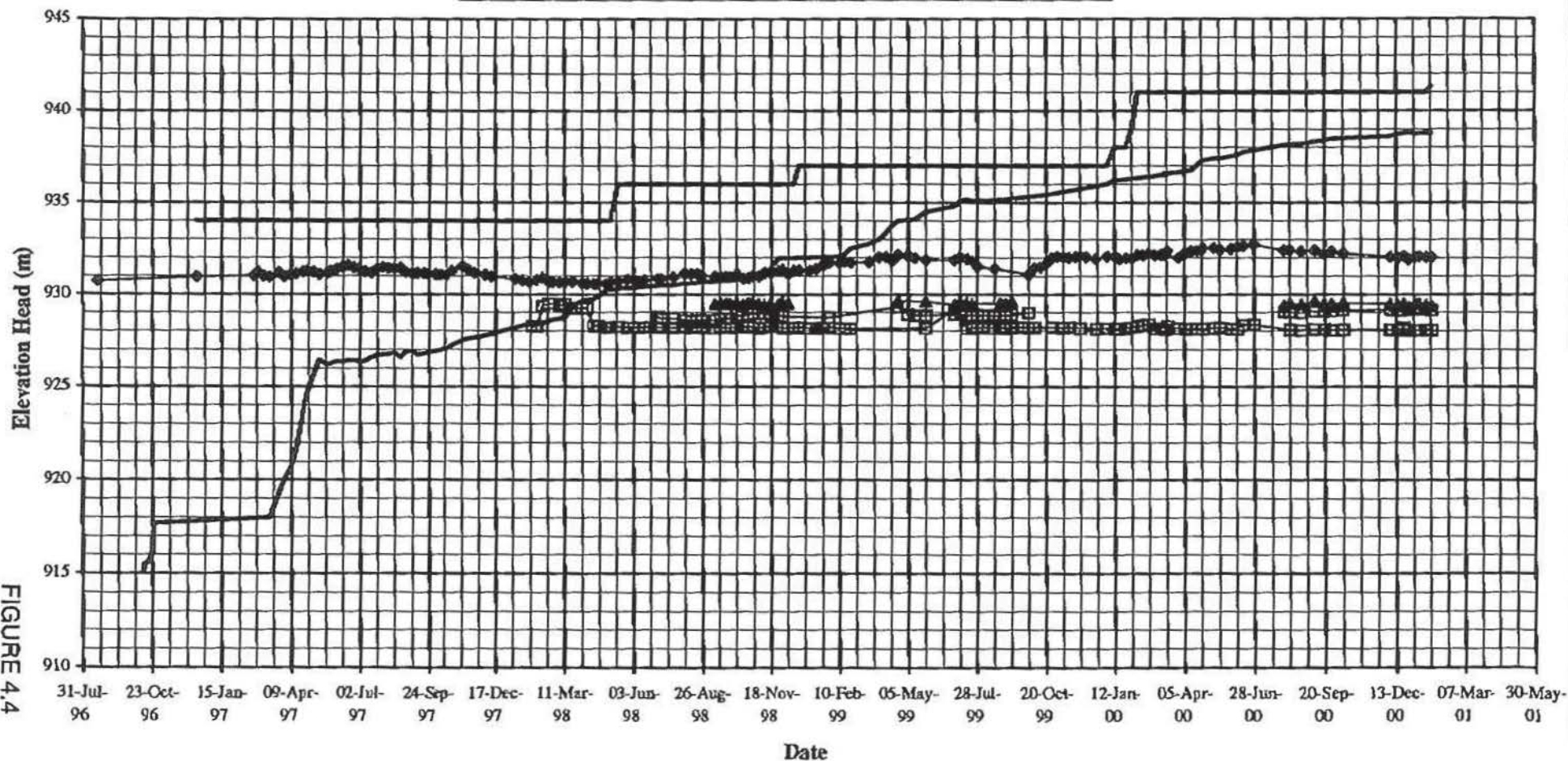
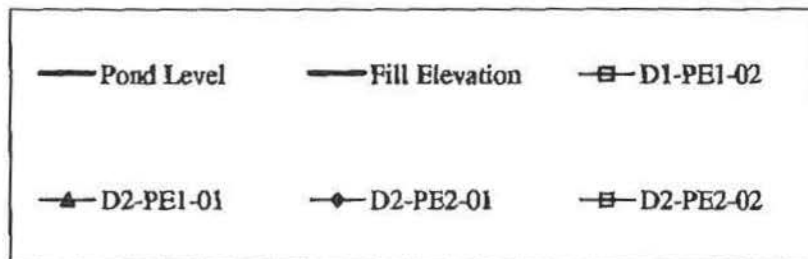


FIGURE 4.4

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE E PIEZOMETERS

KNIGHT PIESOLD
CONSULTING

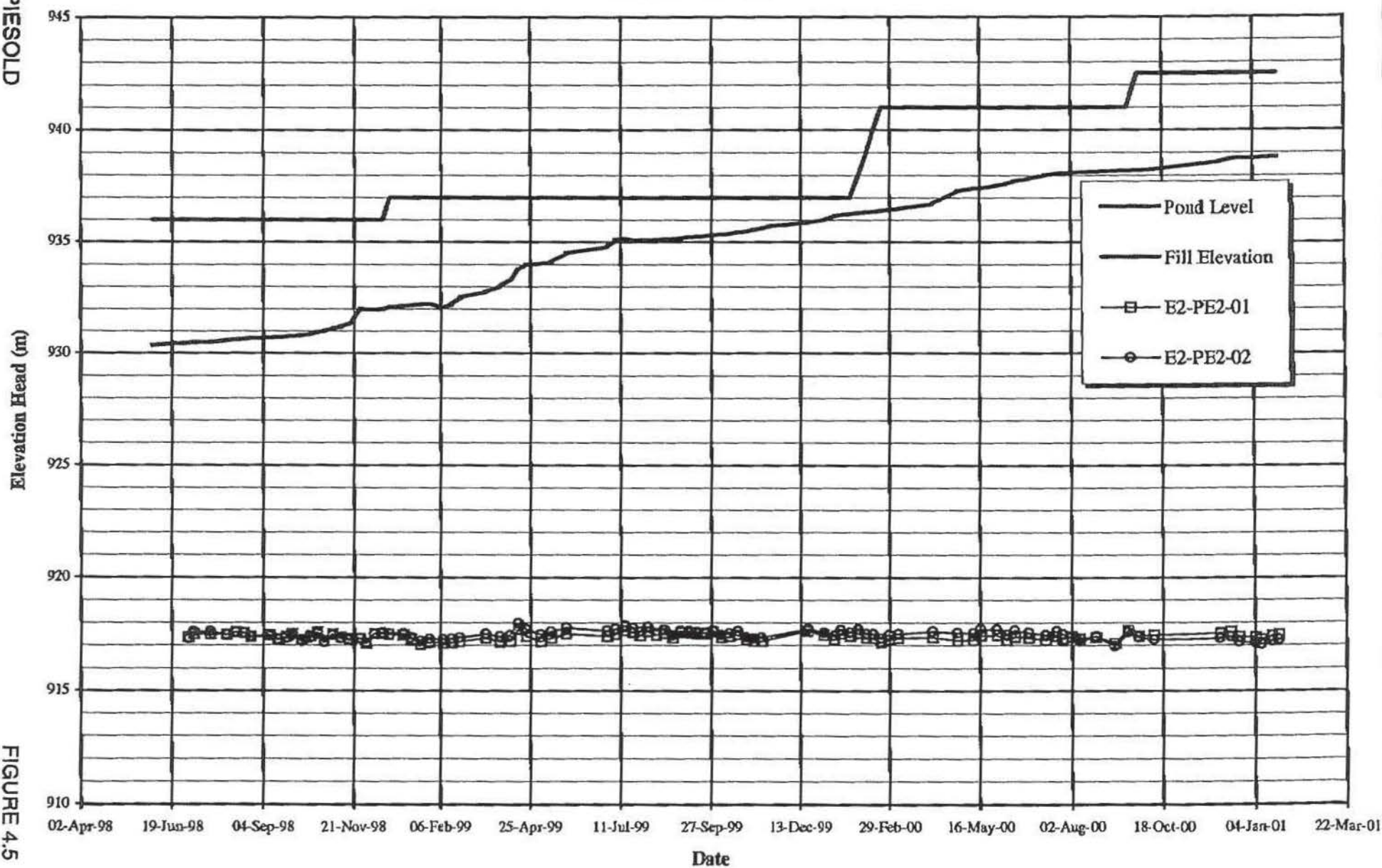


FIGURE 4.5

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE F PIEZOMETERS

KNIGHT PIESOLD
CONSULTING

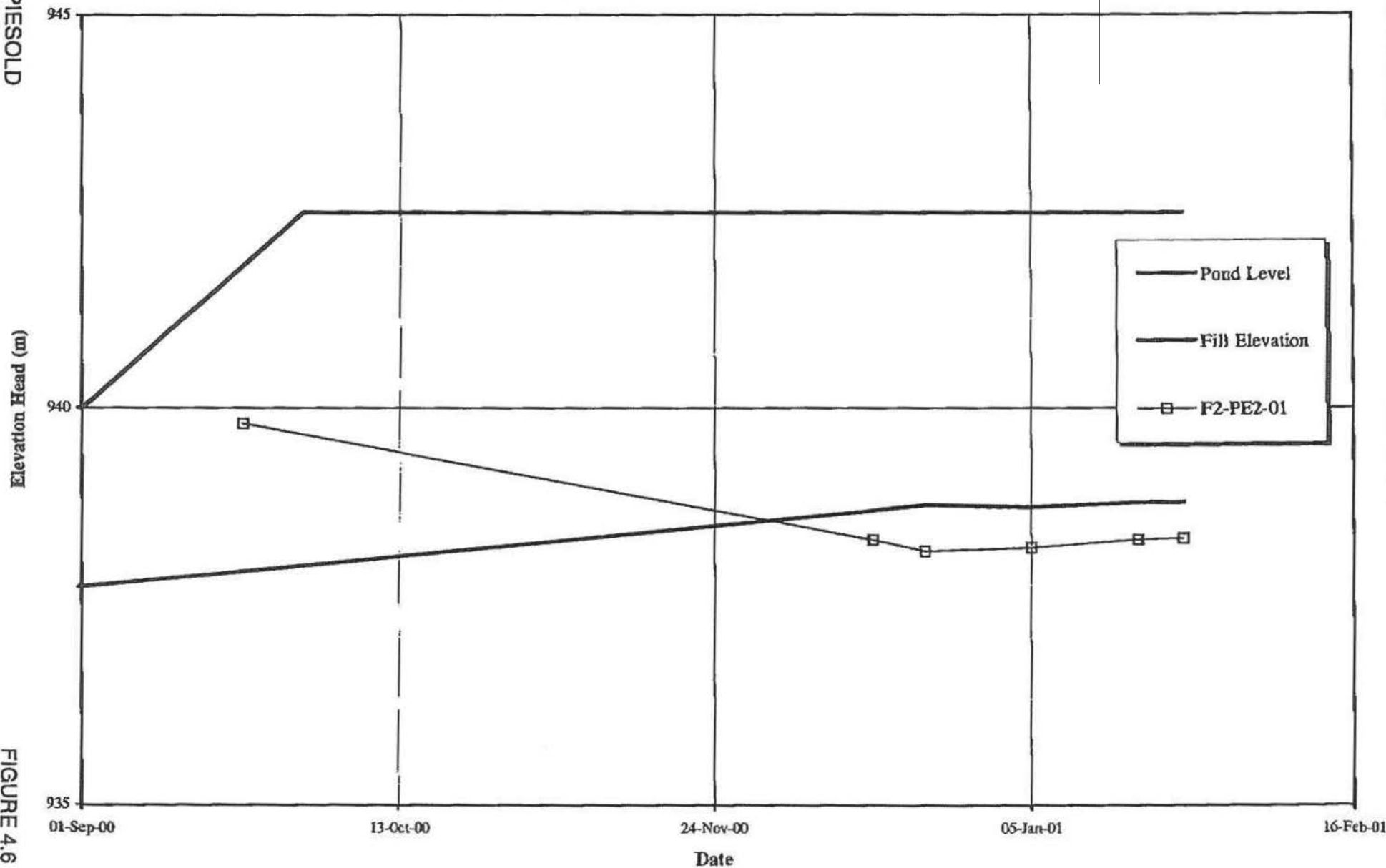


FIGURE 4.6

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER B2-PE2-03
(Glacial Till Fill El. 921.0 m)

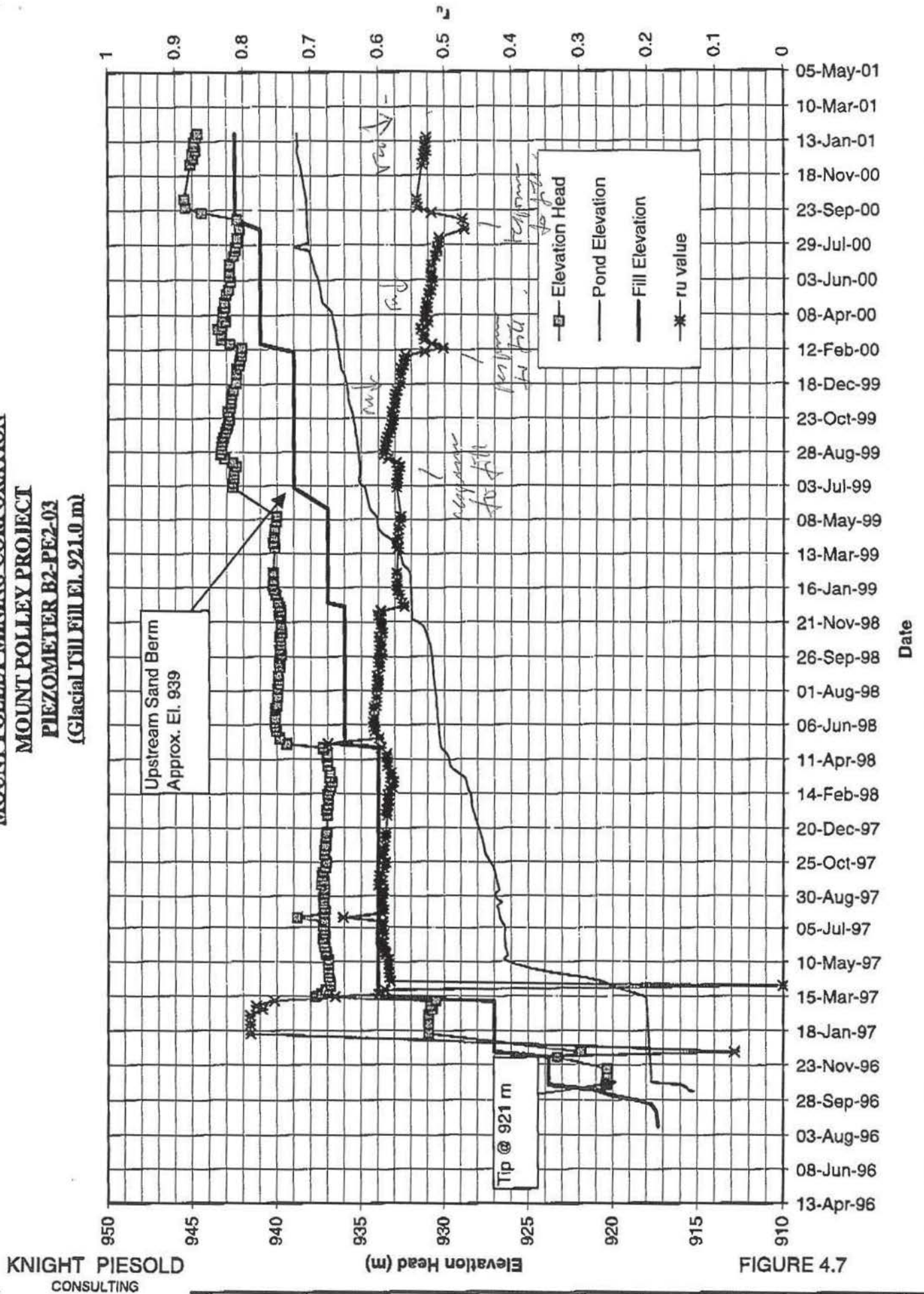


FIGURE 4.7

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER C2-PE2-05
(Glacial Till Fill EL. 924.8 m)

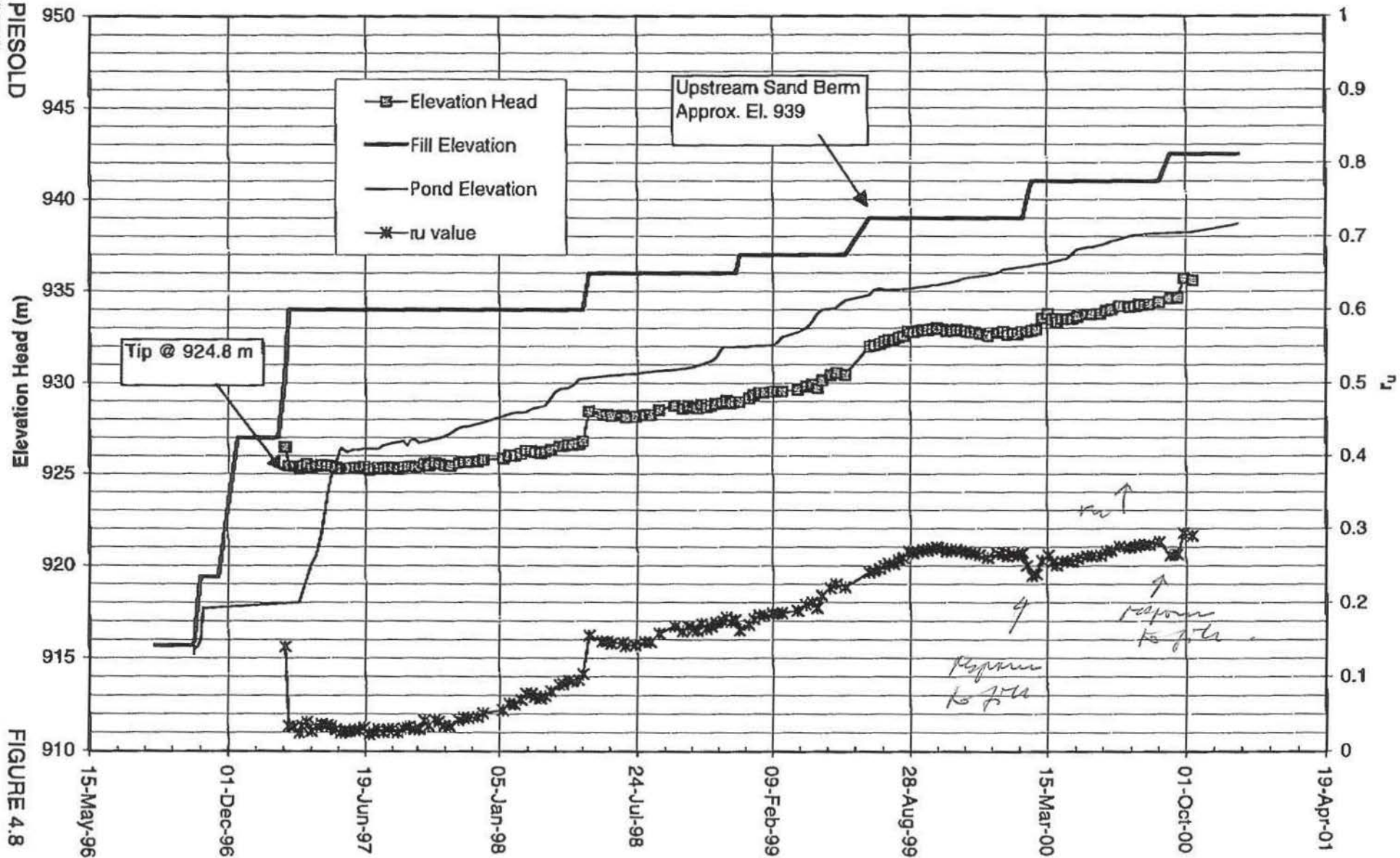
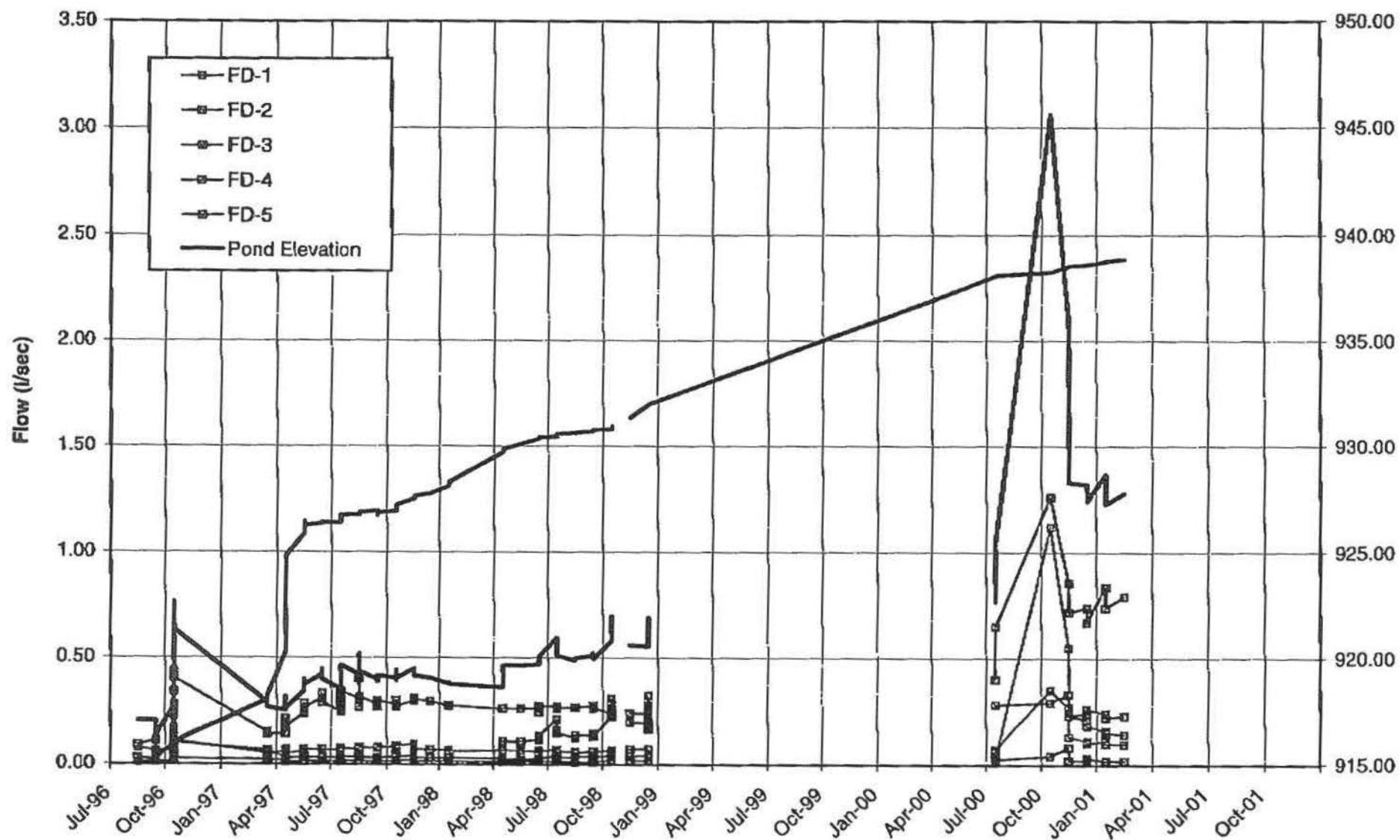
KNIGHT PIESOLD
CONSULTING

FIGURE 4.8



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

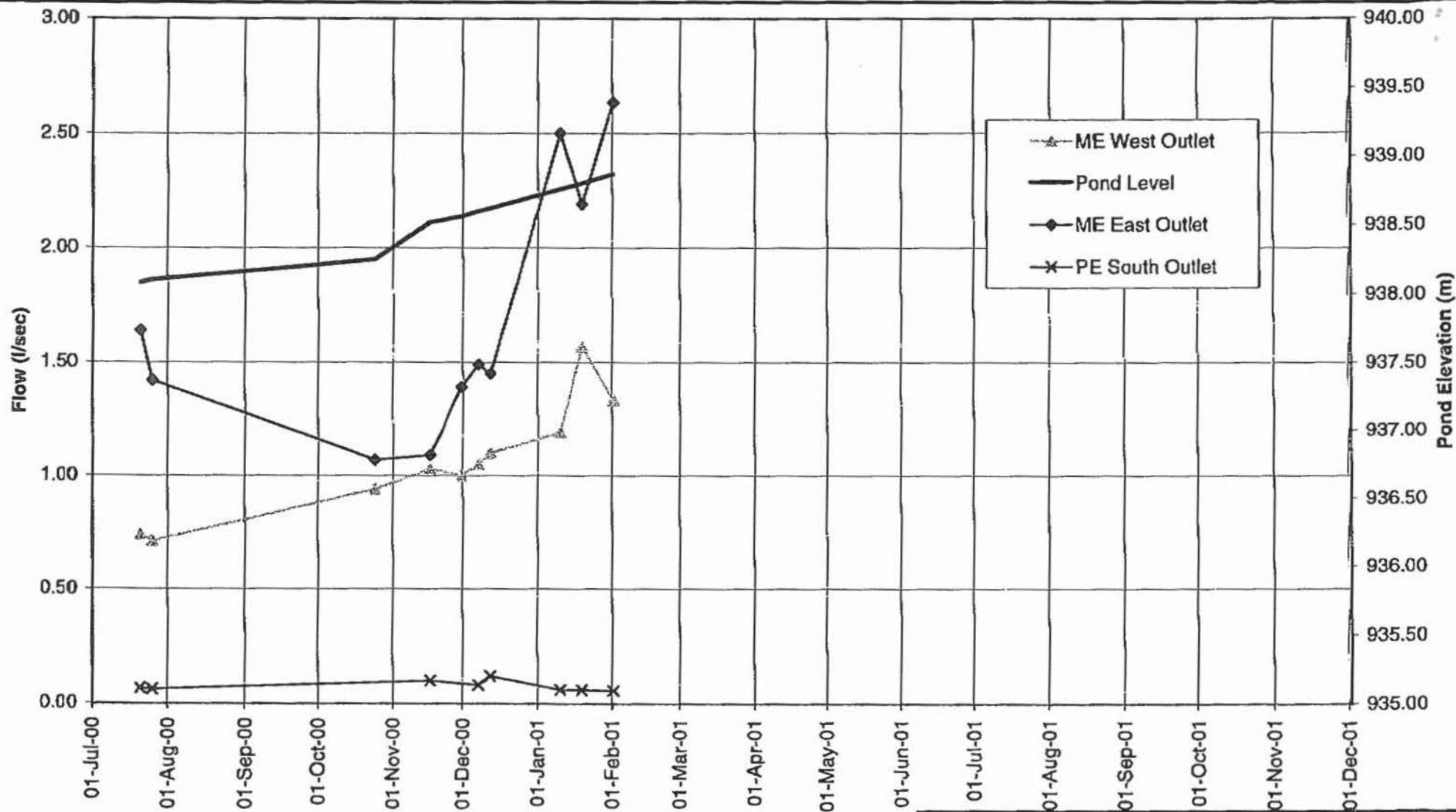
MAIN EMBANKMENT

FOUNDATION DRAIN FLOWS

Knight Piésold
 CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/13		

FIGURE 4.9



MOUNT POLLEY MINING CORPORATION

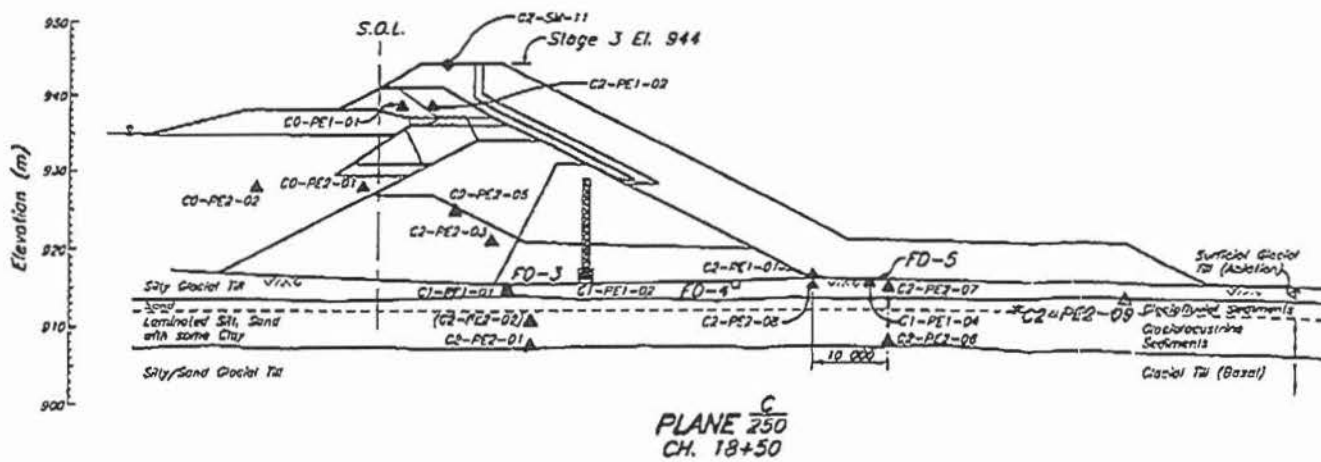
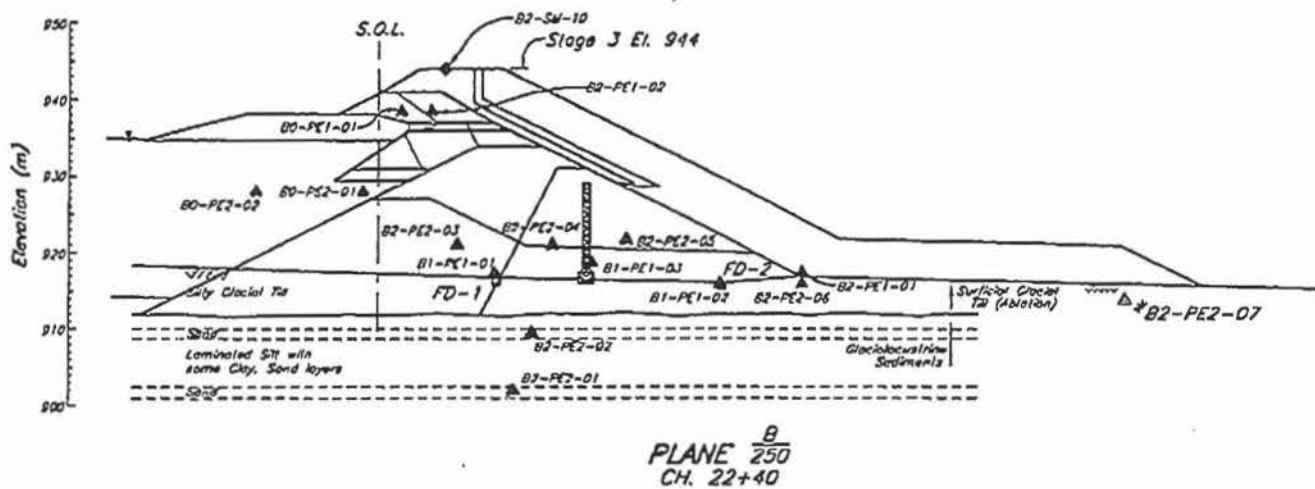
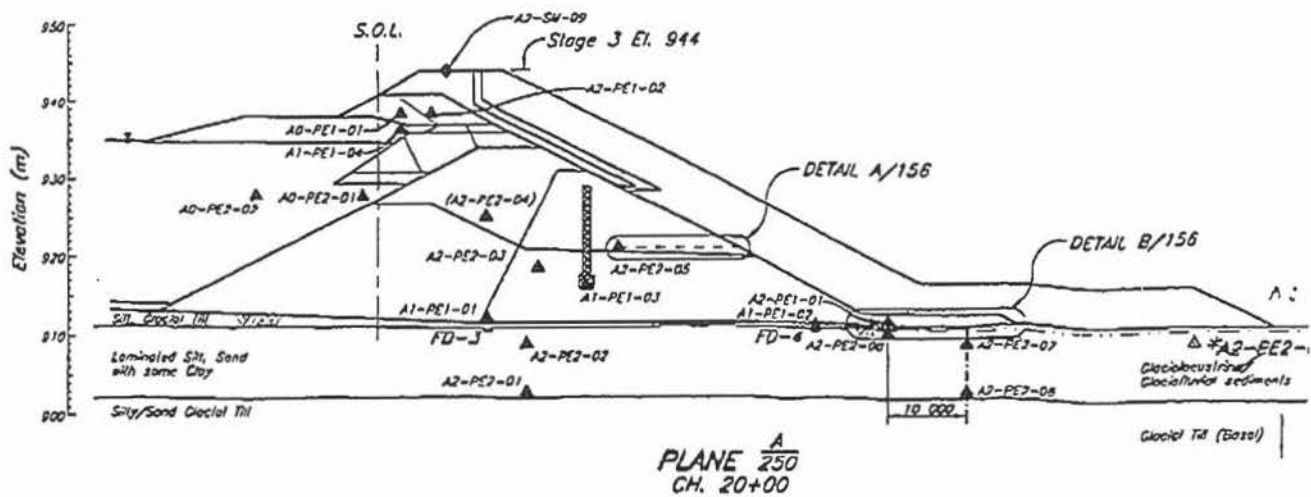
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
UPSTREAM TOE DRAIN FLOWS

Knight Piésold
CONSULTING

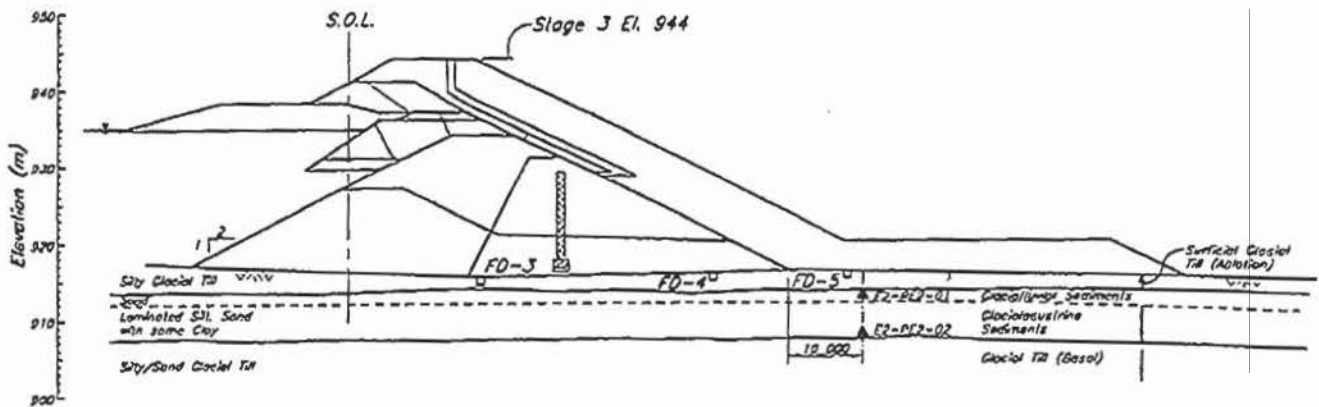
PROJECT NO.	REF. NO.	REV.
11162/13		

FIGURE 4.10

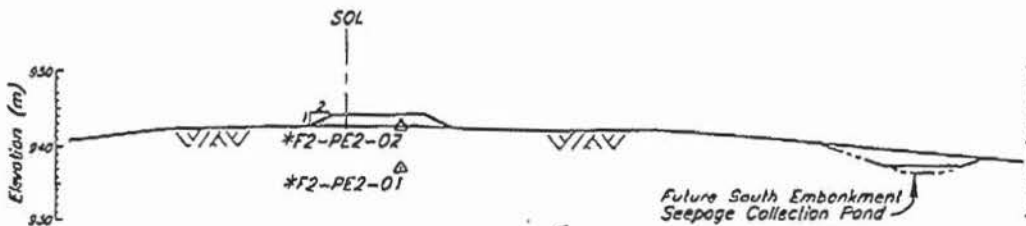


E 3 TAJONGS EMBANKMENT - INSTRUMENTATION - SECTIONS 2 OF 2
E 3 TAJONGS EMBANKMENT - INSTRUMENTATION - SUMMARY OF INSTALLATION & TYP. DETAILS
E 3 MAIN EMBANKMENT - INSTRUMENTATION - PLAN

DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK'D	APP'D	REV.	DATE	ISSUED FOR
REFERENCE DRAWINGS			REVISIONS							



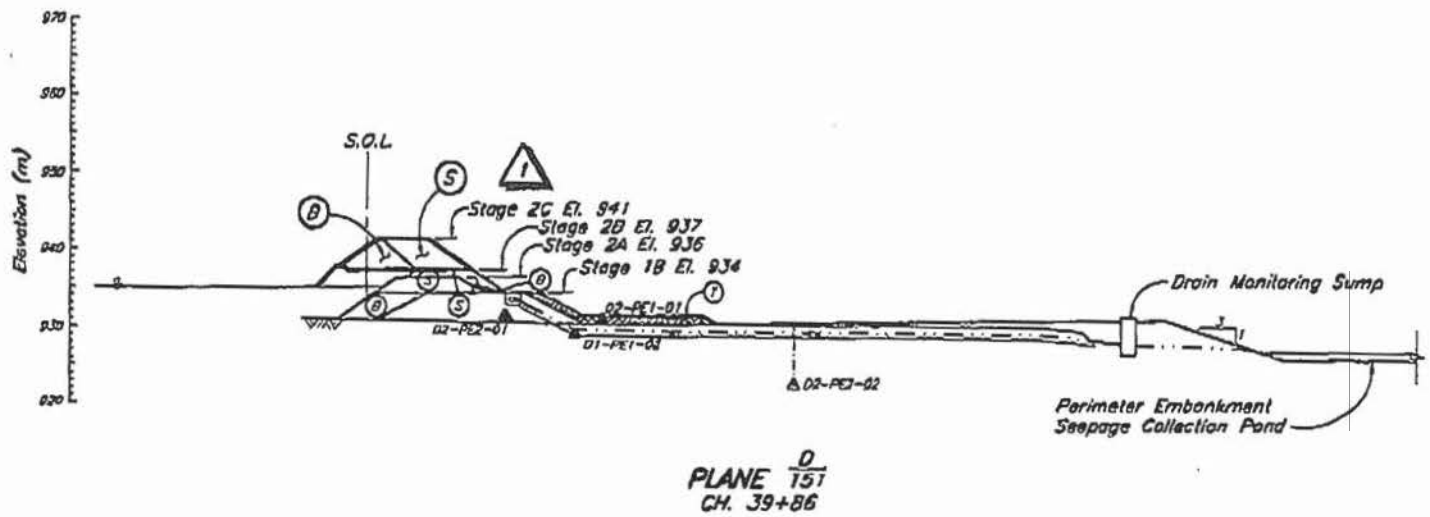
PLANE $\frac{E}{250}$
CH. 17+60



PLANE $\frac{F}{254}$
CH. 7+19

258	TSE - STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION SUMMARY OF INSTALLATION & TYPICAL DETAILS
254	TSE - STAGE 3 TAILINGS EMBANKMENT - SOUTH EMBANKMENT - INSTRUMENTATION PLAN
250	TSE - STAGE 3 TAILINGS EMBANKMENT - MAIN EMBANKMENT - INSTRUMENTATION PLAN
130	TSE - STAGE 3 SOUTH EMBANKMENT - PLAN AND SECTION
215	TSE - STAGE 3 MAIN EMBANKMENT - SECTIONS AND DETAILS

DRG. NO.	DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CH.
REFERENCE DRAWINGS							



PLANE 151
CH. 39+86

152	TSF - STAGE 2C EXPANSION - INSTRUMENTATION SECTIONS - SHEET 1 OF 2
151	TSF - STAGE 2C EXPANSION - PERIMETER EMBANKMENT INSTRUMENTATION - PLAN
150	TSF - STAGE 2C EXPANSION - MAIN EMBANKMENT INSTRUMENTATION - PLAN
DRG. NO.	DESCRIPTION

REFERENCE DRAWINGS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D
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RECORDS 18 Page 168 of 438



MOUNT POLLEY MINING CORPORATION

A DIVISION OF IMPERIAL METALS CORPORATION

April 30, 2001

Mr. Chris Carr
Ministry of Energy and Mines
Mines Branch
4th Floor, 1810 Blanshard Street
Victoria, BC
V8W 9N3

Dear Mr. Carr:

Mt. Polley Tailings Storage Facility
Application to Construct to Elevation 945 Metres
Amendment to Permit M-200

Stage 2C of the Mount Polley Tailings Storage Facility (TSF) was completed to a crest elevation of 941 m in March of 2000. The Main and South Embankments were constructed to a crest elevation of 942.5 m in October of 2000 and the Perimeter Embankment was constructed to an elevation of 941.5 m in March of 2001 under the existing Stage 3 permit, which allows for construction to elevation 944 m. We request approval from the Mines Branch to amend this permit and construct the Stage 3 embankment an additional 1 meter higher to a crest elevation of 945 m. This crest elevation will provide adequate storage capacity for tailings while providing the design freeboard until mid 2002.

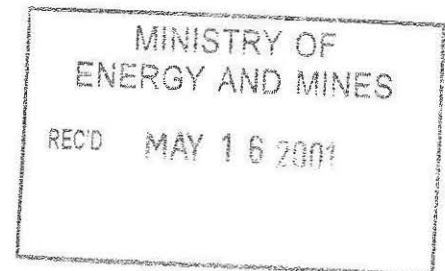
The design report for permitting and construction of Stage 3 and on-going stages of the Mount Polley TSF was submitted to your office for review in December 1999 (Knight Piésold Ref. No. 11162/12-2). The report describes the construction of the embankment downstream fill zones by direct placement of cycloned tailings underflow. The Annual Environmental and Reclamation Report 2000, issued by Mount Polley Mining Corporation, discusses the metal leaching and acid rock drainage potential of the cycloned sand material.

→ file

14745-40/MTP0/01

MP00122

* Additional drawings
submitted May 30/01.
See 14745-40/MTP0/01
Accordion File.



We considered rockfill as an alternative to cycloned sand in the downstream shell zones as part of the Stage 3 tendering process. The rockfill concept was originally presented in a Stage 2 design report (Knight Piésold Ref. No. 10162/9-3, December 1997) in the Addendum to the Stage 3 design report (Knight Piésold Ref. No. 11162/13-4). MPMC have determined that this rockfill option will be used for future construction at the Perimeter embankment rather than the cycloned sand fill as outlined in the previous Mines Branch approval dated June 13, 2000. Therefore, the proposed method for Stage 3 construction now includes the use of rockfill at the Main, Perimeter and South Embankments. The three embankments will be constructed as follows:

Main Embankment

The Stage 3 Main Embankment consists of a downstream and modified centreline raise as shown on the attached Drawings (11162-13-210, 11162-13-215). The downstream shell zone consists of locally quarried rockfill to elevation 942.5 m. The modified centreline raise will be continued to elevation 945 m during 2001.

Stability analyses show that this embankment configuration has appropriate factors of safety for the revised design elevation of 945 m.

Perimeter Embankment

The Stage 3 Perimeter Embankment will be raised by the modified centreline construction method. The downstream shell zone will consist of locally quarried rockfill rather than cycloned sand as previously approved in the Mines Branch permit amendment dated June 13, 2000. The Perimeter Embankment details are shown in plan and cross section on the attached Drawings 11162-12-120 and 11162-12-125.

South Embankment

The Stage 3 embankment will include a transition rockfill zone upstream of a glacial till structure and will have a maximum height of approximately 3 m, as shown on the attached Drawing 11162-13-130.

Summary

The as-built report will be submitted following completion of the Stage 3 embankment raises. This report is scheduled for completion by December of 2001.

We request that the permitting process be expedited, as fill placement is expected to commence on June 1, 2001.

Please do not hesitate to contact the undersigned or Mr. Ken Brouwer or Mr. Jeremy Kinch of Knight Piésold should you have any questions regarding this request for approval.

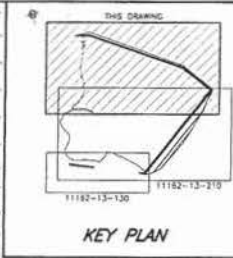
Yours truly,

MOUNT POLLEY MINING CORPORATION

A handwritten signature in black ink, appearing to read "Don Parsons", followed by a period.

Don Parsons

cc: Ken Brouwer, Knight Piésold Ltd.

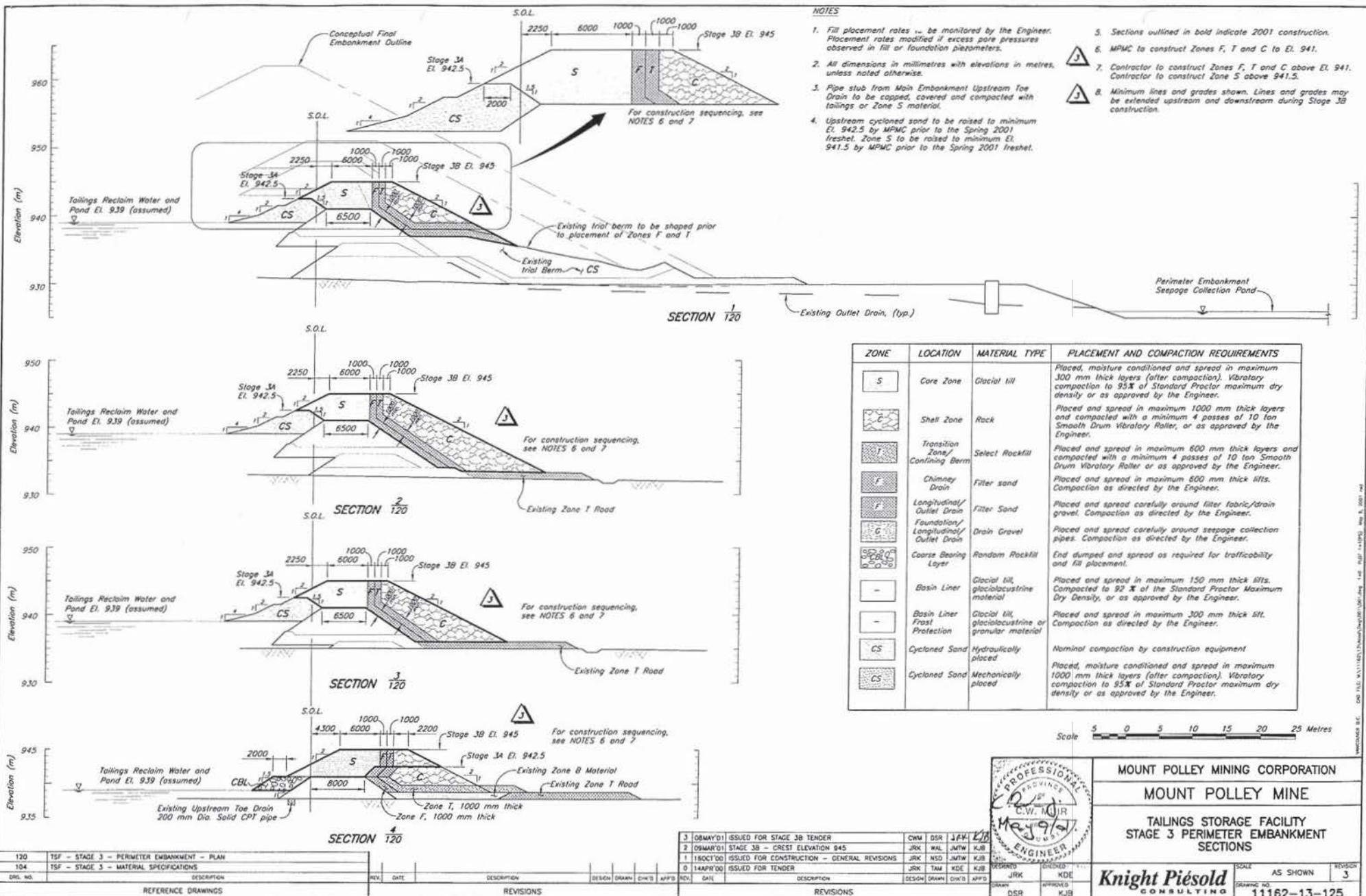


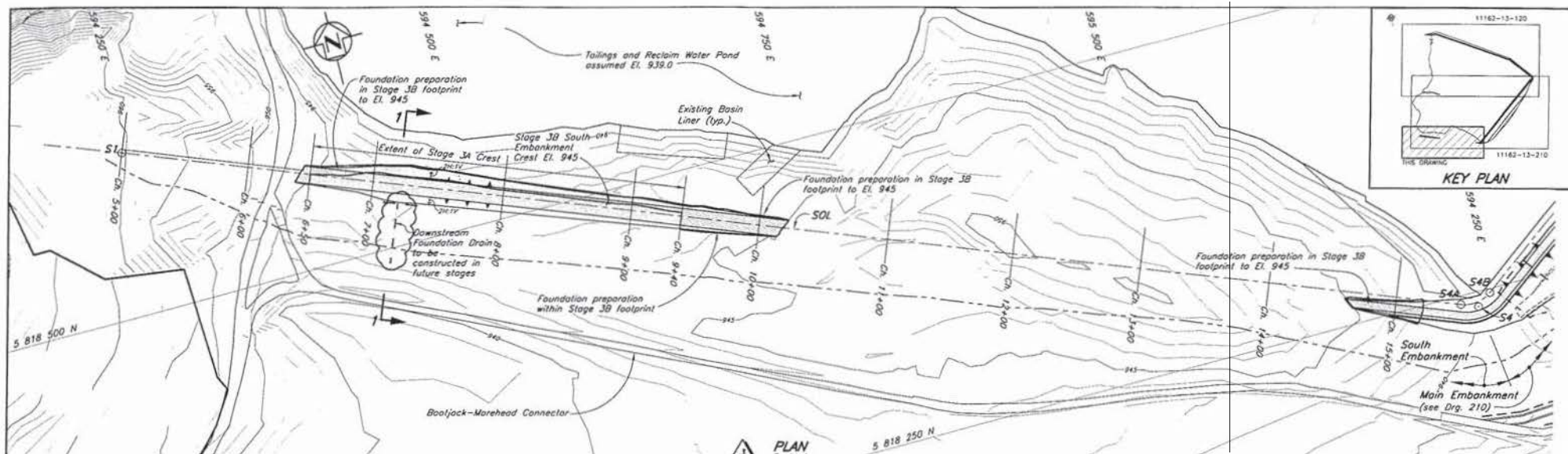
NOTES

1. Chainage defined by Setting Out Point S1 at Ch. 5+00.
2. Stripping and clearing required 5 m beyond toe of embankments.
3. Topography of TSF generated from points and break lines sent from MPMU in July 1999. The topography outside the TSF area is from 1997 flyover.
3. Stage 3A Main and South Embankments constructed to El. 942.5.
4. Stage 3A Perimeter Embankment constructed to El. 941.5 with Zone 5 and 942.5 with upstream Zone GS.
5. Zone I haul road will be partially covered by embankment fill to El. 945.

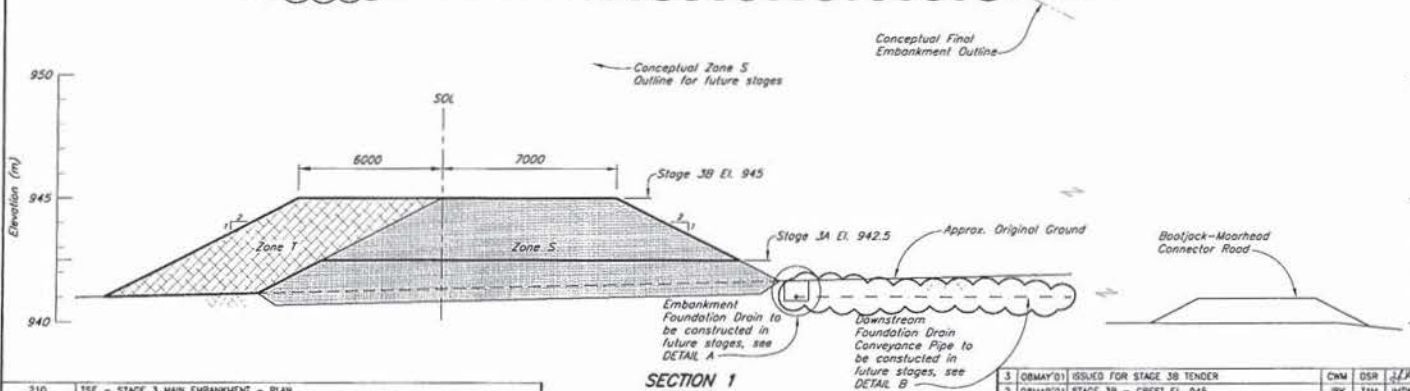
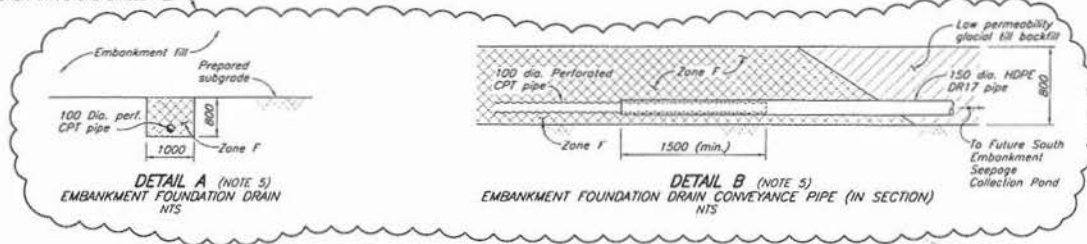
Knight Piésold
CONSULTING

REV.	DATE	DESCRIPTION	DESIGN	DRWN	CHKD	APP
REVISIONS						



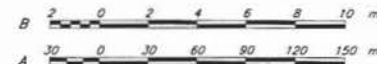


FOR CONSTRUCTION IN FUTURE STAGES



NOTES

1. All dimensions in millimeters and elevations in metres, unless noted otherwise.
2. Topography of TSF generated from points and break lines sent from MPMC in July 1999. The topography outside the TSF area is from 1997 flyover.
3. For Zone Materials Specifications and legend, see Drg. 104.
4. Stripping and clearing required for 5 m beyond toe of embankment.
5. Location of Future Embankment Foundation Drain and conveyance pipe to be installed in trench excavated in competent insitu material approved by Engineer.
6. Sections outlined in bold indicate 2001 construction.
7. Minimum lines and grades shown. Lines and grades may be extended upstream and downstream during Stage 3B construction.



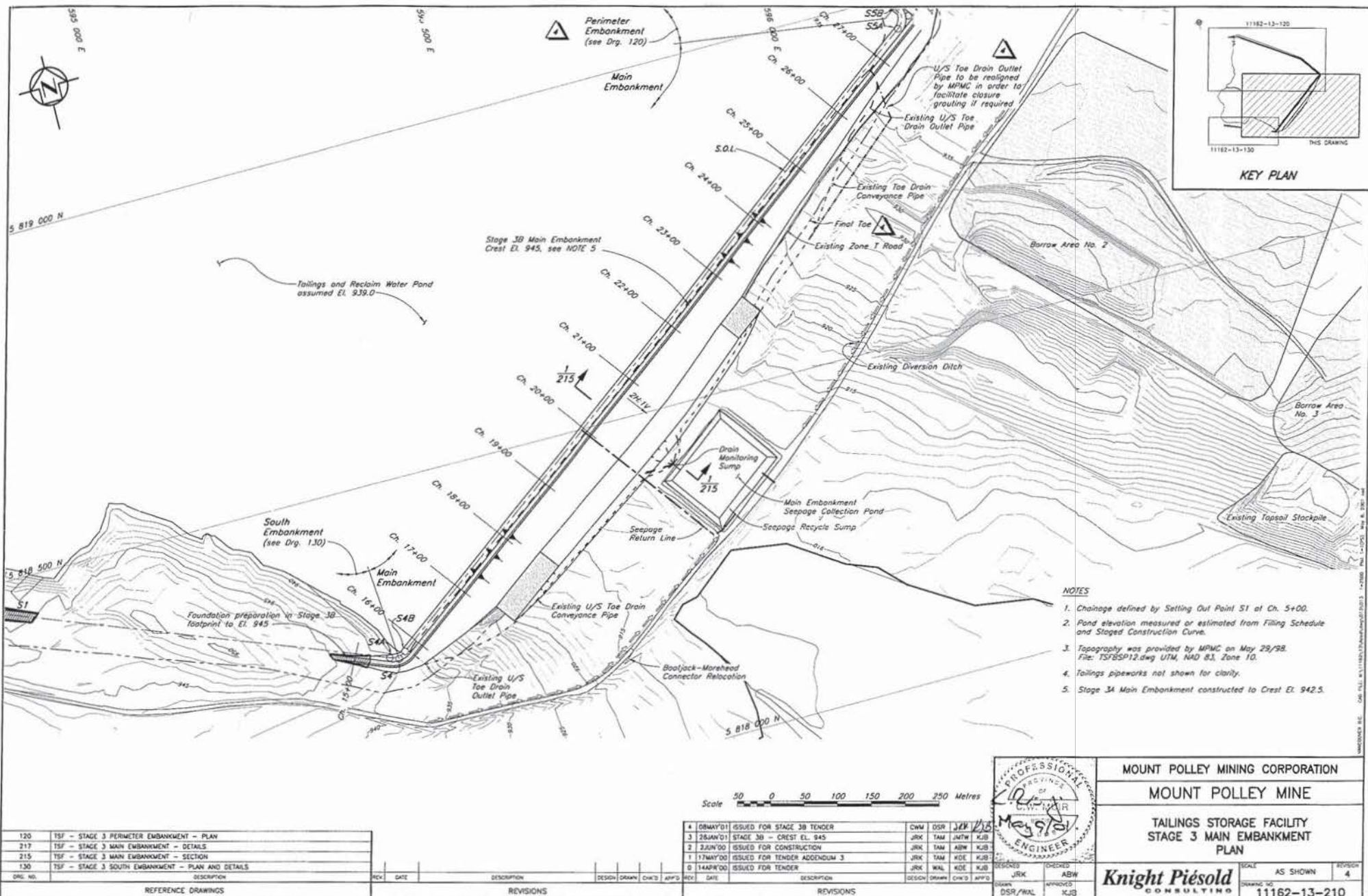
210	TSF - STAGE 3 MAIN EMBANKMENT - PLAN
120	TSF - STAGE 3 PERIMETER EMBANKMENT - PLAN
104	TSF - STAGE 3 TAILINGS EMBANKMENT - MATERIALS SPECIFICATIONS
DWG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED
REVISIONS						

3	08MAY'01	ISSUED FOR STAGE 3B TENDER	CWM	DSR	SLK	PLB
2	02MAR'01	STAGE 3B - CREST EL. 945	JRK	TAM	JMTW	KJB
1	2JUN'00	ISSUED FOR CONSTRUCTION	MOB	TAM	ABW	KJB
0	14APR'00	ISSUED FOR TENDER	MOB	AW	JRK	KJB
REVISIONS						



MOUNT POLLEY MINING CORPORATION	
MOUNT POLLEY MINE	
TAILINGS STORAGE FACILITY STAGE 3 SOUTH EMBANKMENT PLAN AND SECTION	
Knight Piesold CONSULTING	SCALE AS SHOWN REVISION 3 DRAWING NO. 11162-13-130



Knight Piésold
CONSULTING

Suite 1400 - 750 West Pender Street
Vancouver, B.C. V6C 2T8
Telephone: (604) 685-0543
Fax: (604) 685-0147

TRANSMITTAL

14745-40/HTPO/01
Accordian File
Re Permit Amendment
(Application letter
dated April 30/01).

TO: Ministry of Energy &
Mines

DATE: 30 May 2001

REF NO: 1/1524

FILE NO: 11162/14.01

ATTENTION: Chris Carr

RE: Mount Polley Drawing Set

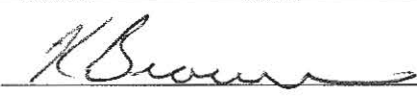
WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____
the following items:

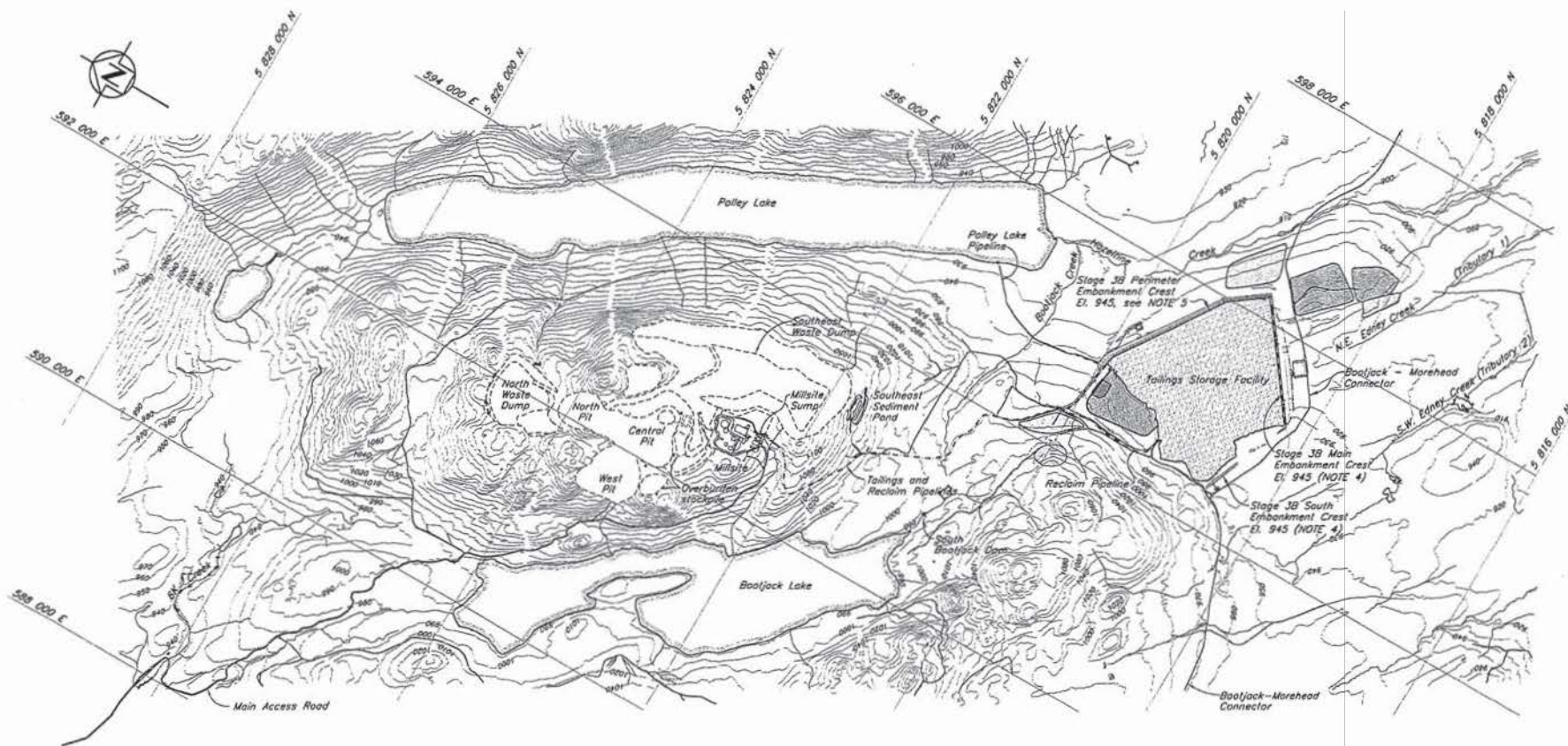
☒ Print(s) ☐ Reproducibles ☐ Letter(s) ☐ Specifications ☐ Disk(s)
☐ Report(s) ☐ Shop Drawings ☐ Other _____

NO.	DESCRIPTION
1 print ea.	Drawings: 11162-13-100, Rev. 3 11162-13-102, Rev. 3 11162-13-104, Rev. 1 11162-13-120, Rev. 3 11162-13-125, Rev. 3 11162-13-127, Rev. 1 11162-13-130, Rev. 3 11162-13-210, Rev. 4 11162-13-215, Rev. 4 11162-13-250, Rev. 2 11162-13-251, Rev. 2 11162-13-254, Rev. 2 11162-13-256, Rev. 3 11162-13-258, Rev. 2 11162-13-259, Rev. 3

REMARKS:

Copy To: Eric Leneve, MPMC (+ attachments)

Signed: 



NOTES

1. Open Pits and Waste Dumps are shown in their final configurations.
2. Topography at TSF generated from points and break lines sent from MPMAC in July 1992. The topography outside the TSF area is from 1997 flyover. UTM, NAD83, ZONE 10.
3. Current size and location of potential and existing Borrow Areas and Topsoil Stockpiles are to be confirmed.
4. Stage 3A Main and South Embankments constructed to El. 942.5.
5. Stage 3A Perimeter Embankment constructed to El. 941.5 with Zone S and 942.5 with upstream Zone CS.

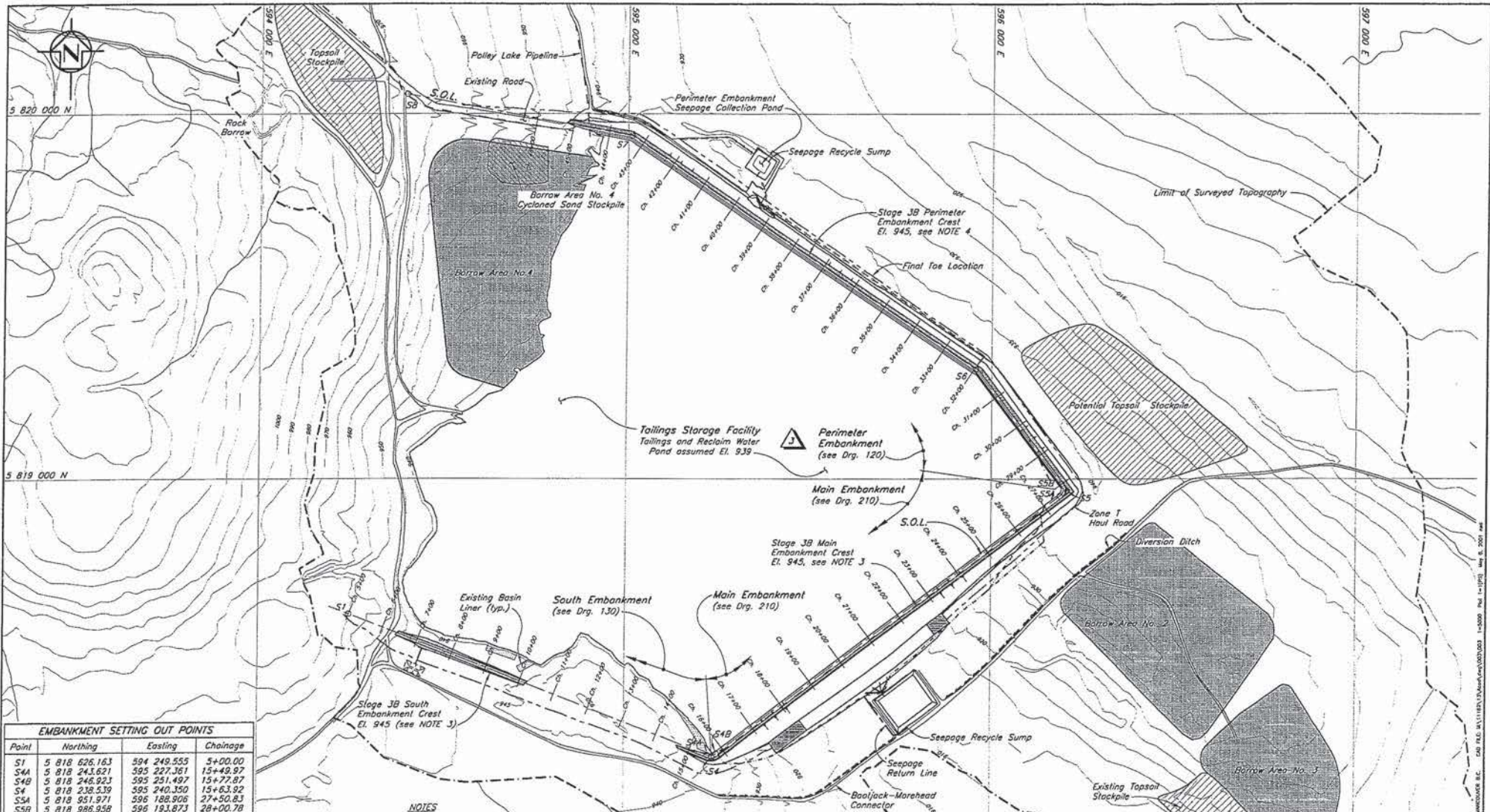


MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
STAGE 3 TAILINGS EMBANKMENT
OVERALL SITE PLAN

Knight Piésold
CONSULTING
SCALE AS SHOWN
REVISION 3
DRAWING NO. 11162-13-100

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED
3	08MAY01	ISSUED FOR STAGE 3B TENDER	JRK	TAM	JMK	KJB
2	28JUN01	STAGE 3B CREST EL. 945	MOB	TAM	ADW	KJB
1	2JUN99	ISSUED FOR CONSTRUCTION	MOB	TAM	JRK	KJB
0	14APR00	ISSUED FOR TENDER	MOB	TAM	JRK	KJB

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED
3	08MAY01	ISSUED FOR STAGE 3B TENDER	JRK	TAM	JMK	KJB
2	28JUN01	STAGE 3B CREST EL. 945	MOB	TAM	ADW	KJB
1	2JUN99	ISSUED FOR CONSTRUCTION	MOB	TAM	JRK	KJB
0	14APR00	ISSUED FOR TENDER	MOB	TAM	JRK	KJB



EMBANKMENT SETTING OUT POINTS			
Point	Northing	Easting	Chainage
S1	5 818 626.163	594 249.555	5+00.00
S4A	5 818 243.621	595 227.361	15+49.97
S4B	5 818 246.923	595 251.497	15+77.67
S4	5 818 238.539	595 240.350	15+63.92
S5A	5 818 951.971	595 188.906	27+50.83
S5B	5 818 986.958	595 183.873	28+00.78
S5	5 818 966.983	595 208.968	27+75.80
S6	5 819 304.035	595 895.881	31+07.23
S7	5 819 939.748	595 010.249	43+36.69
S8	5 820 053.034	594 396.471	49+60.83

NOTES

- Topography at TSF generated from points and break lines sent from MPAC in July 1999. The topography outside the TSF area is from 1997 flyover. UTM, NAD83, Zone 10.
- Current size and location of potential and existing Borrow Areas and Topsoil Stockpiles are to be confirmed.
- Stage 3A Main and South Embankments constructed to El. 942.5.
- Stage 3A Perimeter Embankment constructed to El. 941.5 with Zone 5 and 942.5 with upstream Zone CS.

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK'D	APPROV'D
120	T.S.F. - STAGE 3 PERIMETER EMBANKMENT - PLAN					
210	T.S.F. - STAGE 3 MAIN EMBANKMENT - PLAN					
130	T.S.F. - STAGE 3 SOUTH EMBANKMENT - PLAN AND SECTION					

REFERENCE DRAWINGS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK'D	APPROV'D

REVISIONS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK'D	APPROV'D
3	08MAY'01	ISSUED FOR STAGE 3B TENDER	CWM	DSR	JRK	JKB
2	26JAN'01	STAGE 3B - CREST EL. 945	JRK	TAM	JNTW	KJB
1	2JUN'00	ISSUED FOR CONSTRUCTION	MOB	TAM	ASH	KJB
0	14APR'00	ISSUED FOR TENDER	MOB	MSD	JRK	KJB

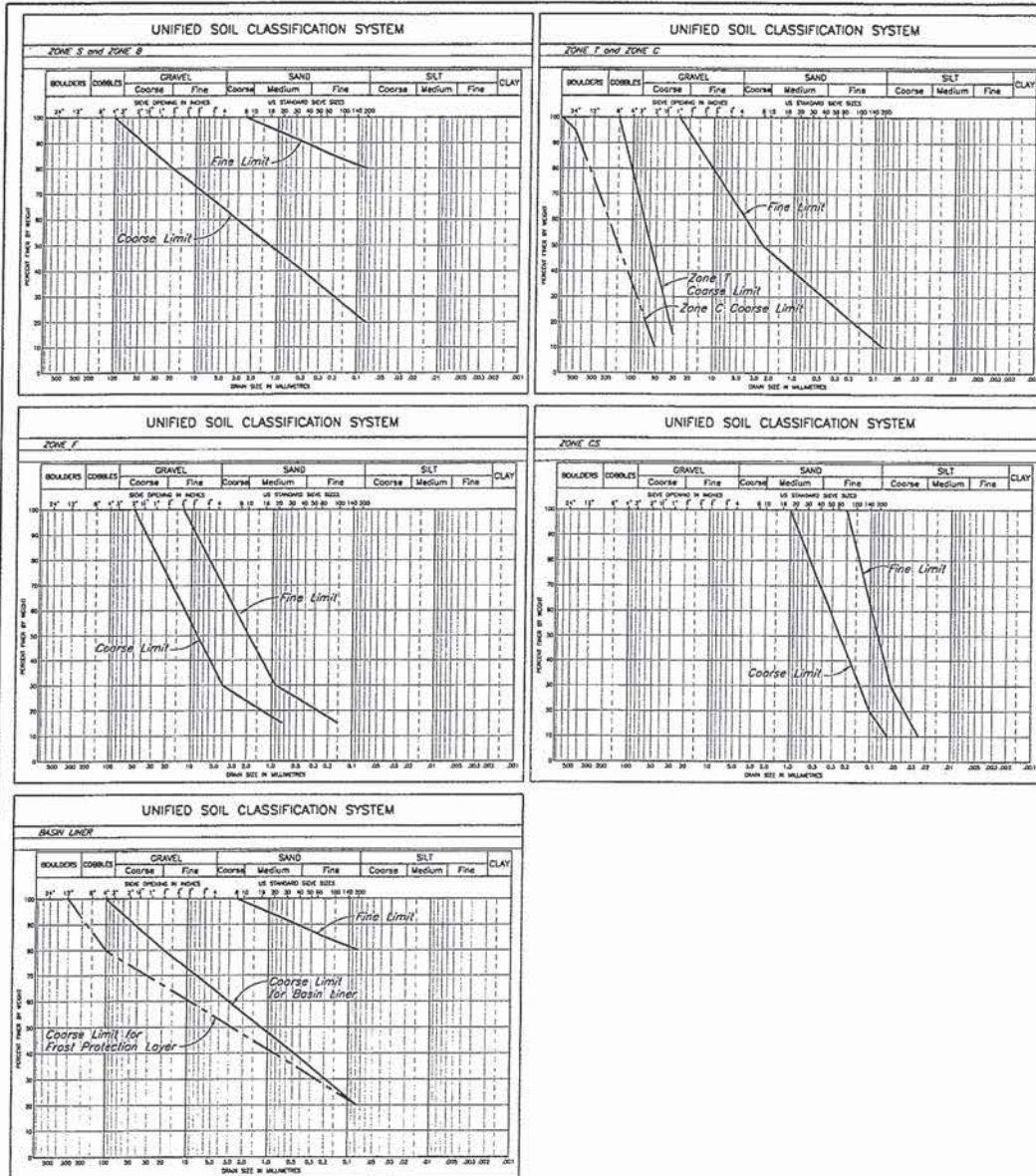
REVISIONS



MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
STAGE 3 TAILINGS EMBANKMENT
GENERAL ARRANGEMENT

Knight Piésold
CONSULTING

SCALE AS SHOWN
DRAWING NO. 11162-13-102
REVISION 3

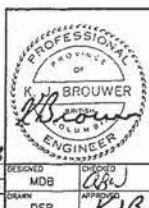


ZONE	MATERIAL TYPE	LOCATION	PLACEMENT AND COMPACTION REQUIREMENTS
S	Glacial till	Core Zone	Placed, moisture conditioned and spread in maximum 300 mm thick layers (after compaction). Vibratory compaction to 95% of Standard Proctor maximum dry density or as approved by the Engineer.
C	Rock	Shell Zone	Placed and spread in maximum 1000 mm thick layers and compacted with minimum 4 passes of 10 ton smooth drum vibratory roller, or as approved by the Engineer.
T	Rock	Transition Zone/ Confining Berm	Placed and spread in maximum 600 mm thick layers and compacted with minimum 4 passes of 10 ton smooth drum vibratory roller, or as approved by the Engineer.
F	Filter sand	Chimney Drain	Placed and spread in maximum 600 mm thick layers and compacted with minimum 4 passes of 10 ton smooth drum vibratory roller, or as approved by the Engineer.
CS	Cyclone Sand, Mechanically placed	Shell Zone	Placed, moisture conditioned and spread in maximum 500 mm thick layers (after compaction). Vibratory compaction to 95% of Standard Proctor Maximum Dry Density, or as approved by the Engineer.
CS	Cyclone Sand, Hydraulically placed	Shell Zone	Nominal compaction by construction equipment
RC	Random Rockfill	Coarse Bearing Layer	End dumped and spread as required for trafficability and fill placement.
-	Glacial till, glaciolacustrine material	Basin Liner	Placed and spread in maximum 150 mm thick lifts. Compacted to 92% of the Standard Proctor Maximum Dry Density, or as approved by the Engineer.
-	Glacial till, glaciolacustrine or granular material	Basin Liner Frost Protection	Placed and spread in maximum 300 mm thick lift. Compaction as directed by the Engineer.

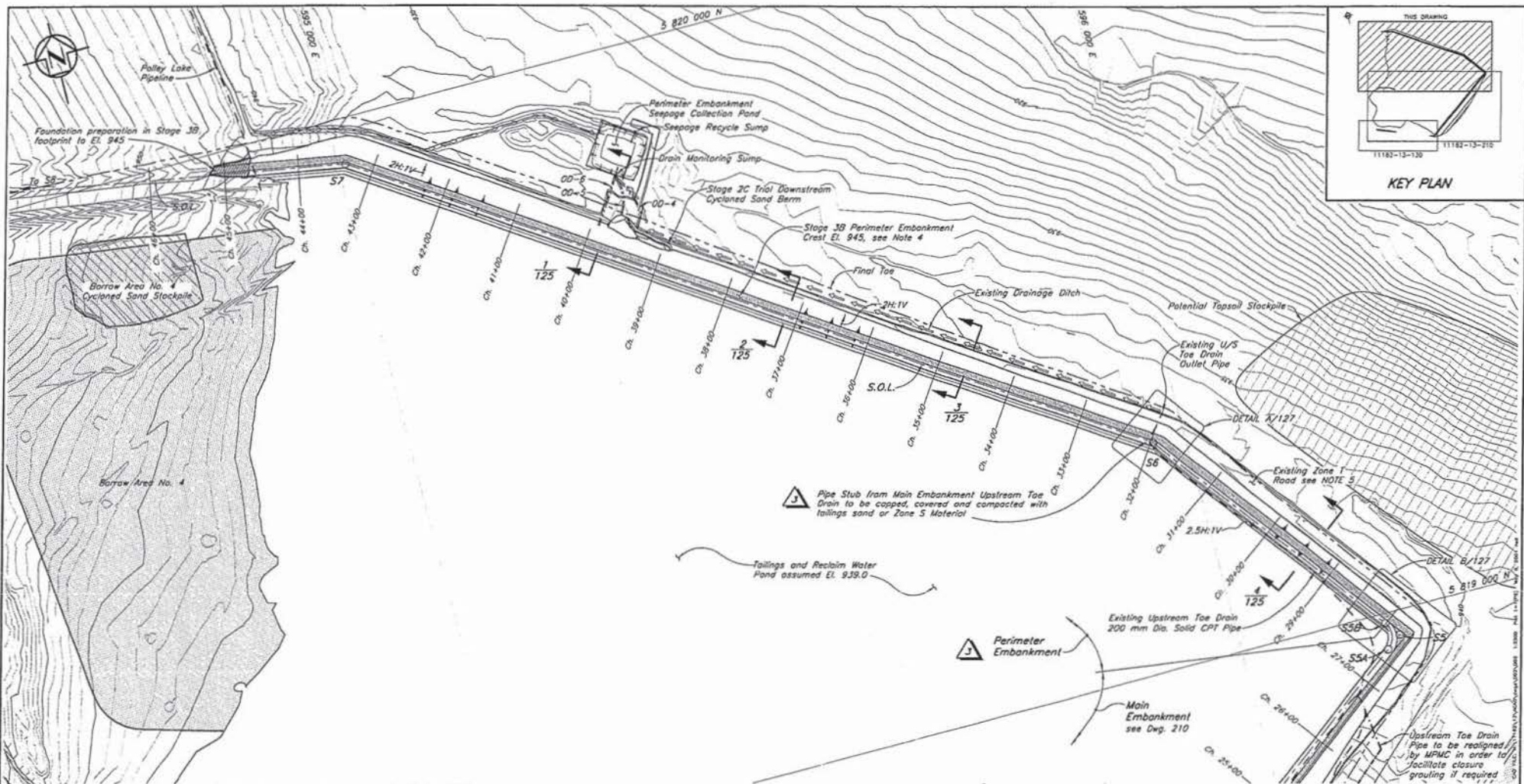
215	TSF - STAGE 3 MAIN EMBANKMENT - SECTION
130	TSF - STAGE 3 SOUTH EMBANKMENT - PLAN AND SECTION
SHEET NO.	DESCRIPTION
REFERENCE DRAWINGS	

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

1	2 JUN 00	ISSUED FOR CONSTRUCTION	MOB	TAM	KJB	215
0	14 APR 00	ISSUED FOR TENDER	MOB	WAL	JRK	KJB
REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
REVISIONS						



MOUNT POLLEY MINING CORPORATION	
MOUNT POLLEY MINE	
TAILINGS STORAGE FACILITY STAGE 3 TAILINGS EMBANKMENT MATERIAL SPECIFICATIONS	
Knight Piesold CONSULTING	SCALE AS SHOWN DRAWING NO. 11162-13-104 REVISION 1



Point	Northing	Easting	Chainage
S1	5 818 626.163	594 249.555	5+00.00
S4A	5 818 243.621	595 227.361	15+49.97
S4B	5 818 246.923	595 251.497	15+77.87
S4	5 818 238.539	595 240.350	15+63.92
S5A	5 818 951.971	596 188.906	27+50.83
S5B	5 818 956.958	596 193.873	28+00.78
S5	5 818 956.983	596 208.868	27+75.80
S6	5 819 304.035	595 955.881	31+97.23
S7	5 819 939.748	595 010.249	43+36.69
S8	5 820 053.034	594 395.471	49+60.83

NOTES

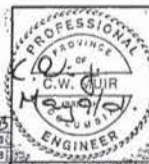
- Chainage defined by Setting Out Point S1 at Ch. 5+00.
- Stripping and clearing required 5 m beyond toe of embankments.
- Topography at TSF generated from points and break lines sent from MPMC in July 1999. The topography outside the TSF area is from 1997 flyover.
- Stage 3A Main and South Embankments constructed to El. 942.5.
- Stage 3A Perimeter Embankment constructed to El. 941.5 with Zone 5 and 942.5 with upstream Zone CS.
- Zone 1 haul road will be partially covered by embankment fill to El. 945.

Scale 0 50 100 150 200 250 m

REF. NO.	DESCRIPTION
127	TSF - STAGE 3 PERIMETER EMBANKMENT - TRANSITION ZONE DETAILS
210	TSF - STAGE 3 MAIN EMBANKMENT - PLAN
125	TSF - STAGE 3 PERIMETER EMBANKMENT - SECTIONS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
1	18/06/00	ISSUED FOR CONSTRUCTION - GENERAL REVISIONS	JRK	NSD	JTW	KJB
2	26/JAN/01	STAGE 3B CREST EL. 945	JRK	TAM	JTW	KJB
3	08/MAY/01	ISSUED FOR STAGE 3B TENDER	CWM	DSR	JRK	JTB

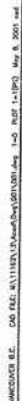
REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
1	18/06/00	ISSUED FOR CONSTRUCTION - GENERAL REVISIONS	JRK	NSD	JTW	KJB
2	26/JAN/01	STAGE 3B CREST EL. 945	JRK	TAM	JTW	KJB
3	08/MAY/01	ISSUED FOR STAGE 3B TENDER	CWM	DSR	JRK	JTB

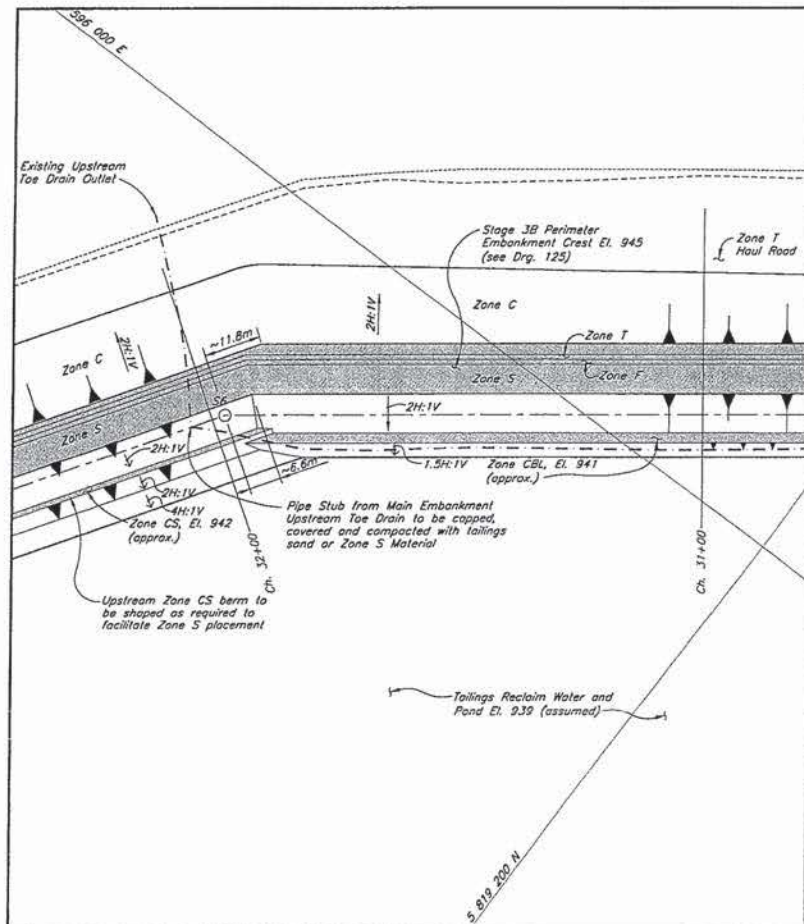


MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
STAGE 3 PERIMETER EMBANKMENT
PLAN

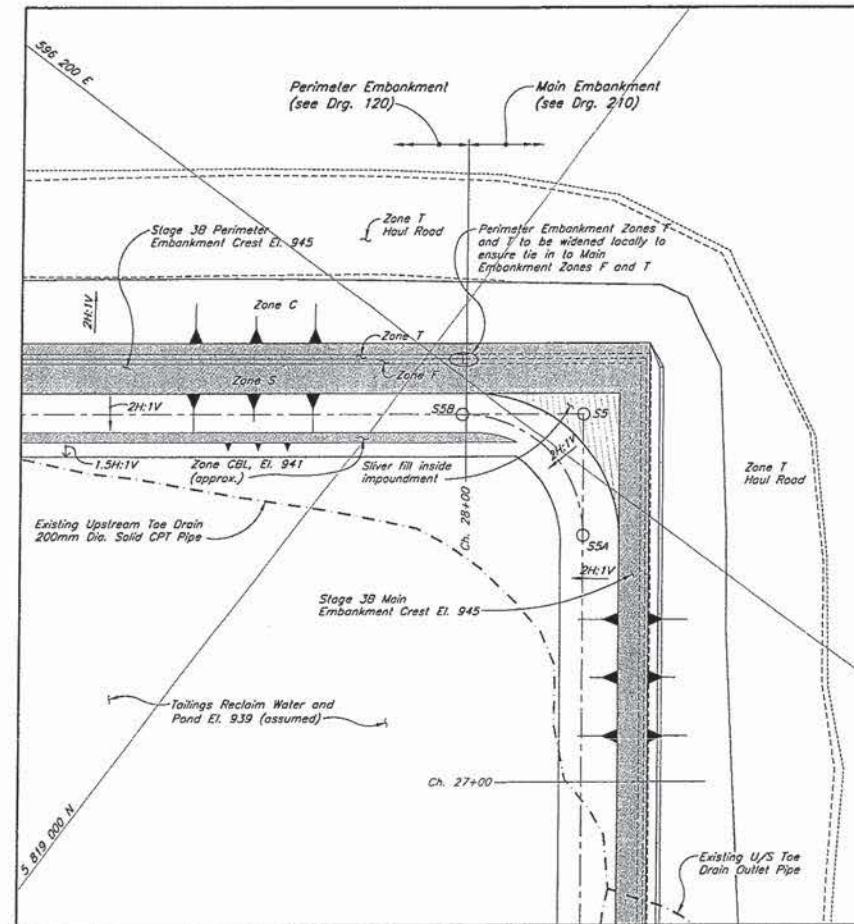
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SCALE AS SHOWN
DRAWING NO. 11162-13-120
REVISION 3





DETAIL 1/120
UPSTREAM CYCLONED SAND EMBANKMENT



DETAIL B
TRANSITION TO MAIN EMBANKMENT



REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED
210		TSF - STAGE 3 MAIN EMBANKMENT - PLAN				
125		TSF - STAGE 3 PERIMETER EMBANKMENT - SECTIONS				
120		TSF - STAGE 3 PERIMETER EMBANKMENT - PLAN				
DRG. NO.		DESCRIPTION				

REFERENCE DRAWINGS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED
1	08MAY'01	ISSUED FOR STAGE 3B TENDER				
0	09MAR'01	STAGE 3B - CREST EL. 945				

REVISIONS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED
1	08MAY'01	ISSUED FOR STAGE 3B TENDER	CWM	DSR	JRK	JRK
0	09MAR'01	STAGE 3B - CREST EL. 945	JRK	TAM	JMTW	KJB

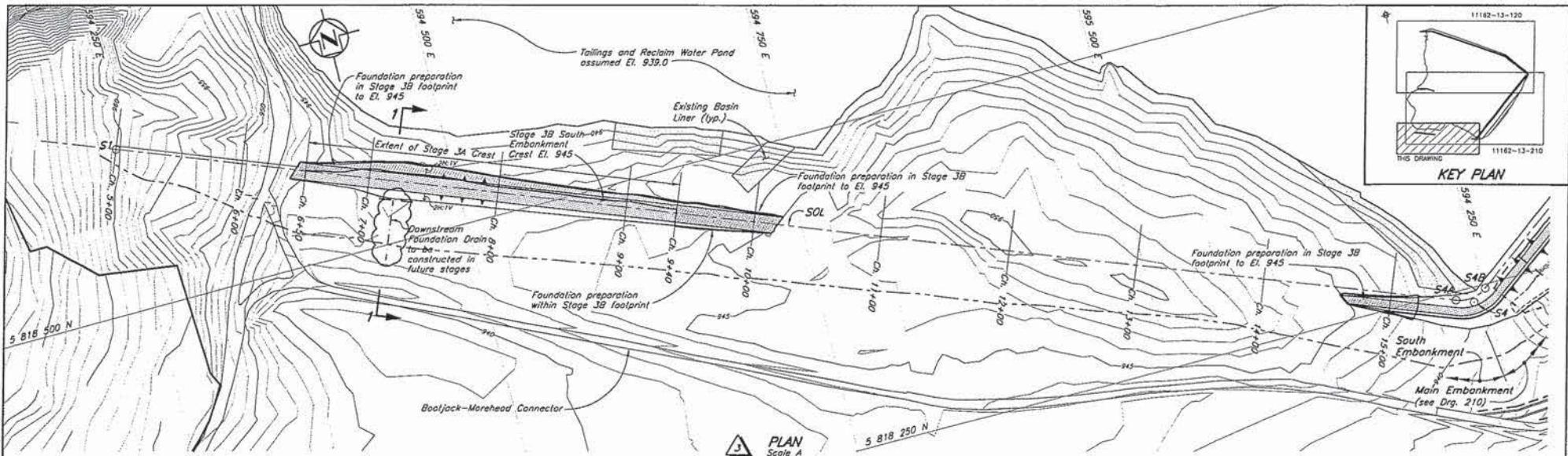
REVISIONS



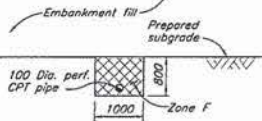
MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
STAGE 3 PERIMETER EMBANKMENT
TRANSITION ZONES DETAILS

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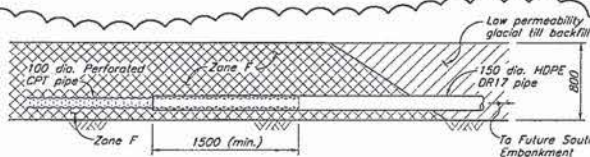
SCALE	AS SHOWN	REVISION
		1
DRAWING NO.	11162-13-127	



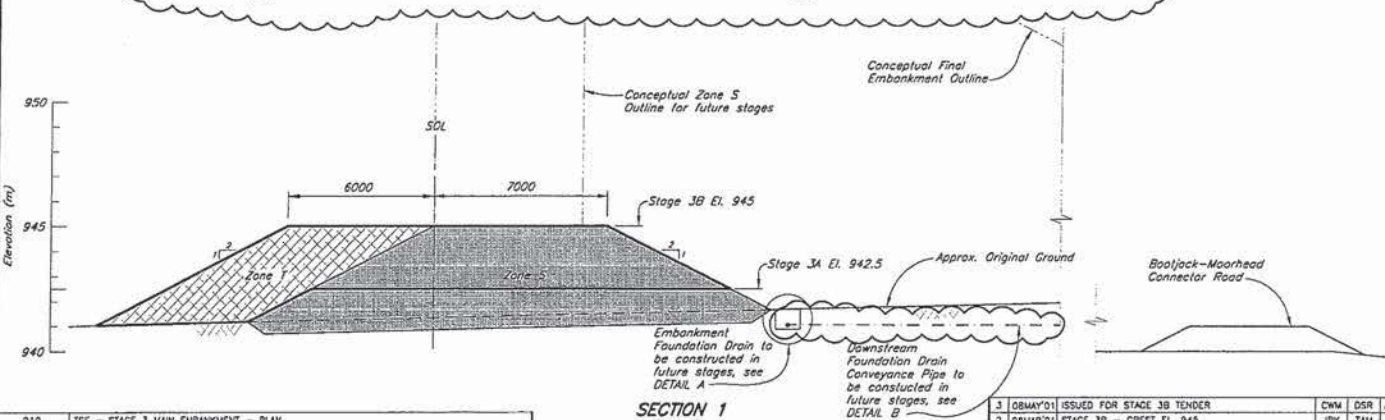
FOR CONSTRUCTION IN FUTURE STAGES



DETAIL A (NOTE 5)
EMBANKMENT FOUNDATION DRAIN
NTS



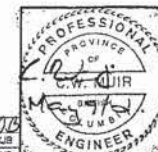
DETAIL B (NOTE 5)
EMBANKMENT FOUNDATION DRAIN CONVEYANCE PIPE (IN SECTION)
NTS



SECTION 1
Scale B

NOTES

1. All dimensions in millimeters and elevations in metres, unless noted otherwise.
2. Topography at TSF generated from points and break lines sent from MPMC in July 1999. The topography outside the TSF area is from 1997 flyover.
3. For Zone Materials Specifications and legend, see Drg. 104.
4. Stripping and clearing required for 5 m beyond toe of embankment.
5. Location of Future Embankment Foundation Drain and conveyance pipe to be installed in trench excavated in competent *in situ* material approved by Engineer.
6. Sections outlined in bold indicate 2001 construction.
7. Minimum lines and grades shown. Lines and grades may be extended upstream and downstream during Stage 3B construction.



MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 3 SOUTH EMBANKMENT
PLAN AND SECTION

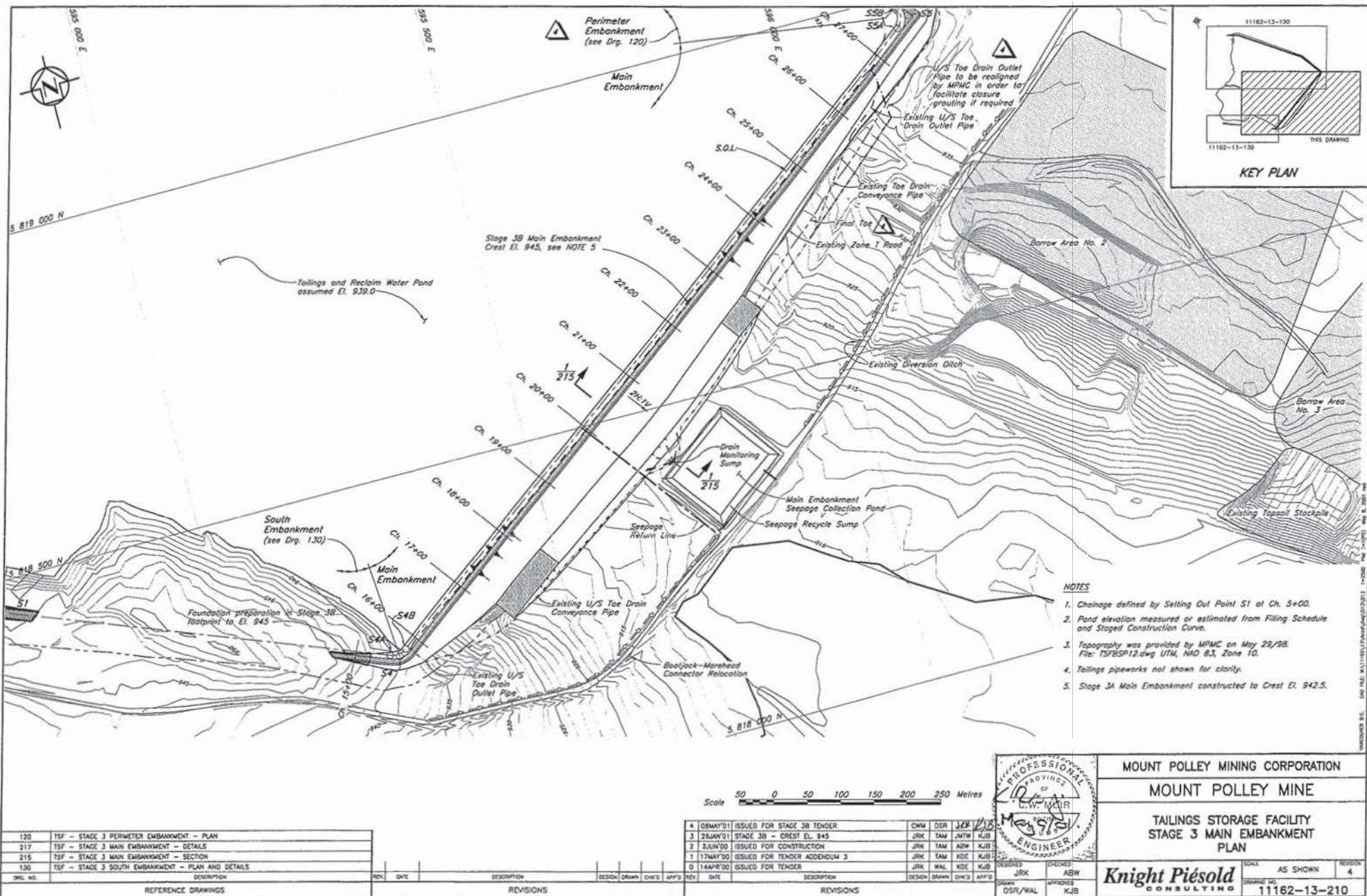
Knight Piesold
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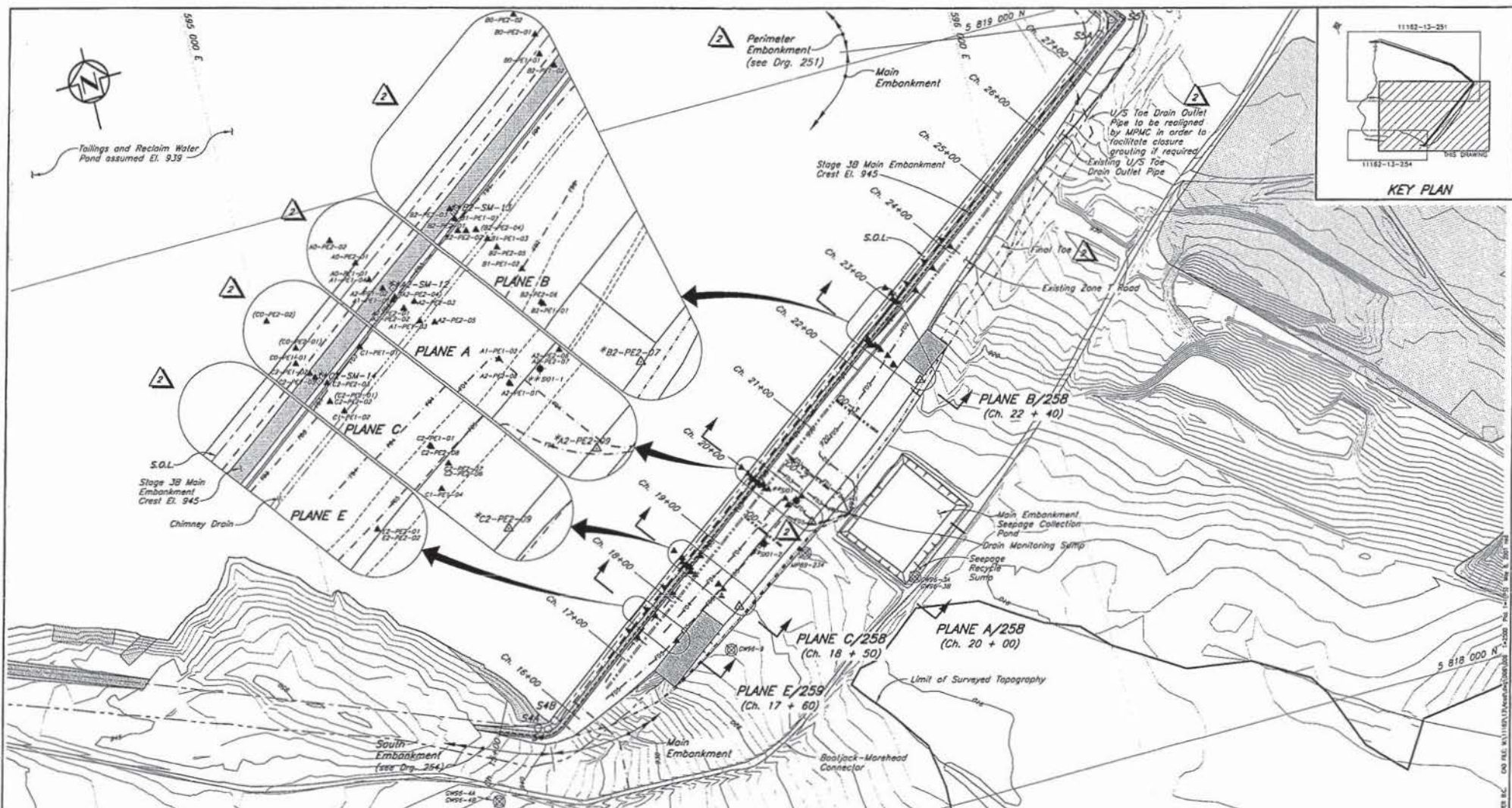
SCALE AS SHOWN
DRAWING NO. 11162-13-130
REVISION 3

DRG. NO.	DESCRIPTION
210	TSF - STAGE 3 MAIN EMBANKMENT - PLAN
120	TSF - STAGE 3 PERIMETER EMBANKMENT - PLAN
104	TSF - STAGE 3 TAILINGS EMBANKMENT - MATERIALS SPECIFICATIONS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
3	08MAY'01	ISSUED FOR STAGE 3B TENDER	JRK	TAM	JMTW	KJB
2	08MAR'01	STAGE 3B - CREST EL. 945	JRK	TAM	JMTW	KJB
1	22JUN'00	ISSUED FOR CONSTRUCTION	MOB	TAM	ABW	KJB
0	14APR'00	ISSUED FOR TENDER	MOB	AW	JRK	KJB

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
3	08MAY'01	ISSUED FOR STAGE 3B TENDER	JRK	TAM	JMTW	KJB
2	08MAR'01	STAGE 3B - CREST EL. 945	JRK	TAM	JMTW	KJB
1	22JUN'00	ISSUED FOR CONSTRUCTION	MOB	TAM	ABW	KJB
0	14APR'00	ISSUED FOR TENDER	MOB	AW	JRK	KJB





RECORDS 13 Page 187 of 438

251	TSF - STAGE 3 PERIMETER EMBANKMENT - INSTRUMENTATION - PLAN
254	TSF - STAGE 3 SOUTH EMBANKMENT - INSTRUMENTATION - PLAN
259	TSF - STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SECTIONS - SHEET 2 OF 2
258	TSF - STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SECTIONS - SHEET 1 OF 2
256	TSF-STAGE 3 TAILINGS EMBANKMENT-INSTRUMENTATION-SUMMARY OF INSTALLATION AND TYPICAL DETAILS
DRG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APP.
REVISIONS						

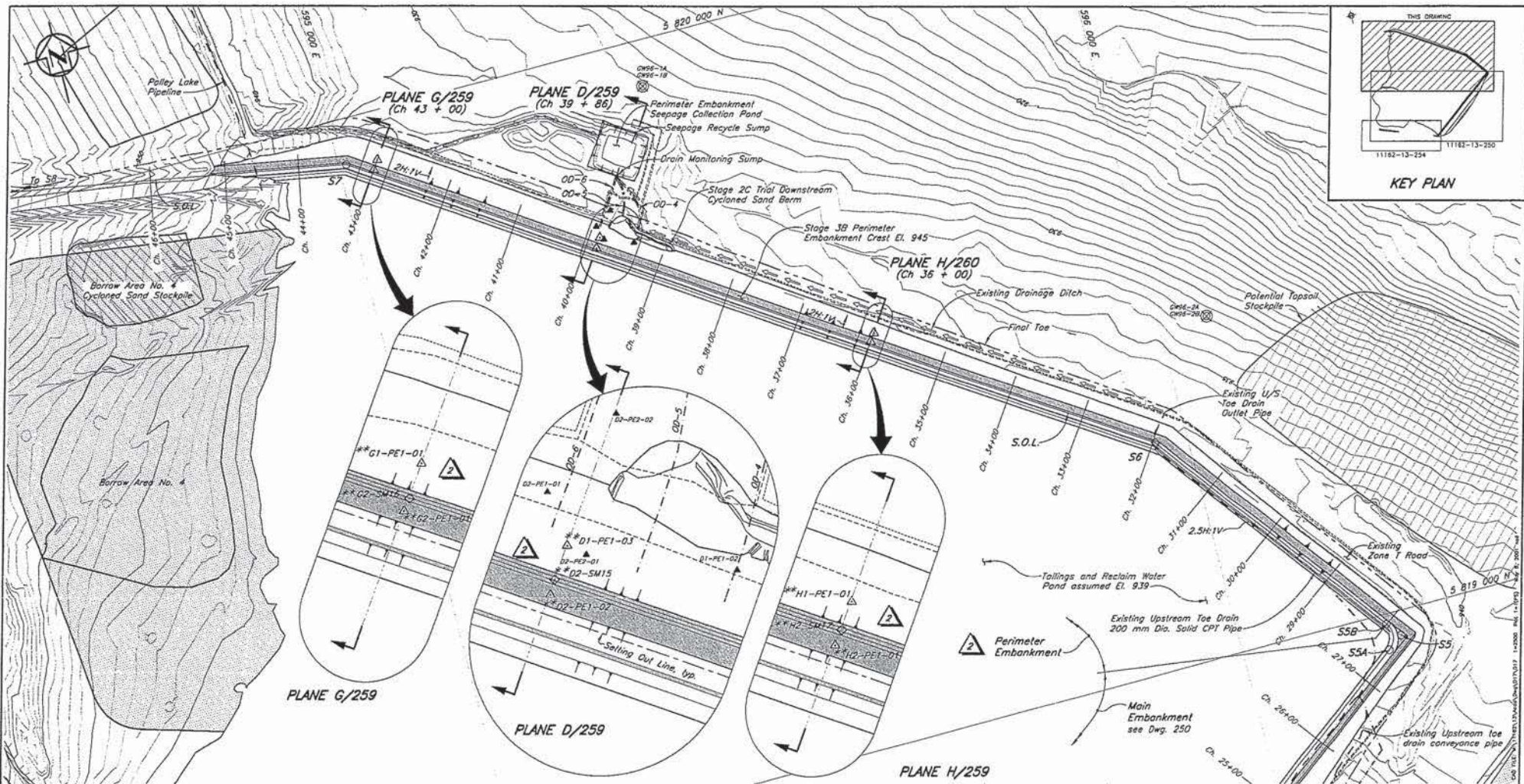
2	06MAY'01	ISSUED FOR STAGE 3B TENDER	CWM	DSR	JMK	KJ
1	25JAN'01	STAGE 3B - CREST EL. 945	JRK	TAM	JMTW	KJ
0	03JUN'00	ISSUED FOR CONSTRUCTION	JRK	TAM	AZW	KJ
REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APP.

REVISIONS

ENGINEER	
DESIGNED JRK	CHECKED ASW
DRAWN NSD	APPROVED KJB

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SCALE	AS SHOWN	REV
DRAWING NO.		
11162-13-250		



LEGEND

- ⊗ Groundwater Monitoring Well
- ▲ A1-PE1-01 Previously installed Piezometer
- △ A2-PE2-08 New Stage 3 Piezometer
- ◇ A3-SM-01 New Embankment Survey Monument

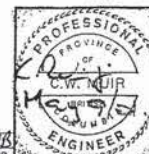
NOTES

1. Chainage defined by Setting Out Point S1 at Ch. 5+00.
2. Topography generated from points and break lines provided by MPNC on July 20, 1999. Topography outside the TSF area is from 1997 flyover.
3. See Drg. No. 11162-13-256 for Summary of Instrumentation Installations, Typical Details, General Notes and Legend.
4. Instrumentation with one asterisk indicates placement during Stage 3A construction. Instrumentation with 2 asterisks indicate placement during Stage 3B construction.

259	TSF - STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION SECTIONS - 2 OF 2
256	TSF - STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION SECTIONS - 1 OF 2
250	TSF - STAGE 3 MAIN EMBANKMENT - INSTRUMENTATION - PLAN
DWG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

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

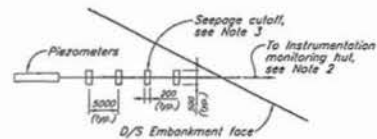
2	08MAY01	ISSUED FOR STAGE 3B TENDER	CWM	DSR	JJK	NSD
1	05MAY01	STAGE 3B - CREST EL. 945	JRK	NSD	JMT	KJB
1	20OCT00	ISSUED FOR CONSTRUCTION	JRK	NSD	JMT	KJB
REVISIONS						



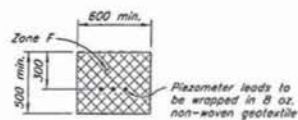
Scale 50 0 50 100 150 200 250 m

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
STAGE 3 PERIMETER EMBANKMENT
INSTRUMENTATION PLAN

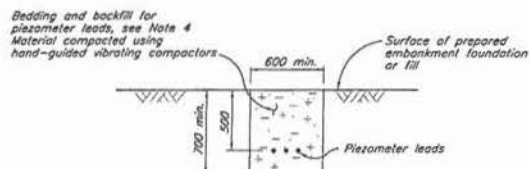
Knight Piésold
CONSULTING
SCALE AS SHOWN
DRAWING NO. 11162-13-251
REVISION 2



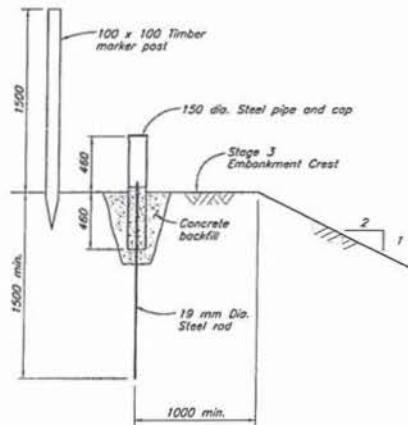
DETAIL A
TYPICAL INSTALLATION DETAIL OF SEEPAGE CUTOFF FOR
PIEZOMETER LEADS IN GLACIAL TILL
NTS



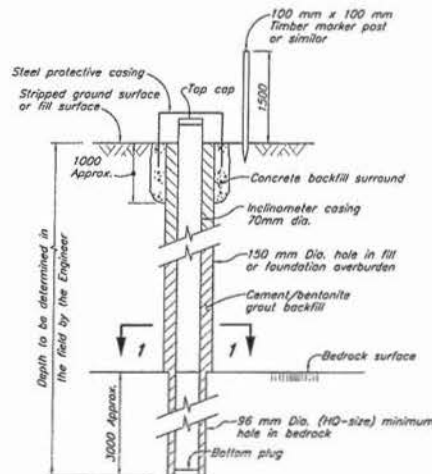
DETAIL B
TYPICAL INSTALLATION DETAIL FOR
PIEZOMETER LEADS IN ZONE F
NTS



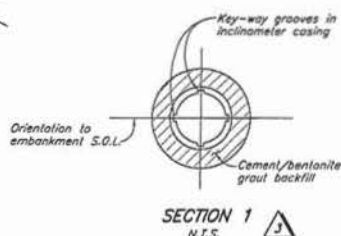
TYPICAL SECTION THROUGH PIEZOMETER LEAD TRENCH
IN PREPARED EMBANKMENT FOUNDATION OR FILL
NTS



TYPICAL DETAIL OF
SURFACE MOVEMENT MONUMENT
NTS



TYPICAL INCLINOMETER INSTALLATION
IN BOREHOLE
NTS



SECTION 1
NTS

SUMMARY OF INSTRUMENTATION INSTALLATIONS					
PIEZOMETER ID	NORTHING	EASTING	ELEV.	DATE INSTALLED	
A0-PE1-01	5 818 495.773	595 588.748	938.543	25/02/00	
A0-PE2-01	5 818 502.850	595 585.398	938.03	09/03/98	
A0-PE2-02	5 818 513.042	595 578.418	927.87	09/03/98	
A1-PE1-01	5 818 488.650	595 595.060	912.99	27/08/98	
A1-PE1-02	5 818 456.420	595 626.250	912.14	27/08/98	
A1-PE1-03	5 818 476.822	595 602.380	917.17	22/10/98	
A1-PE1-04	5 818 495.773	595 588.748	938.5	01/11/99	
A2-PE1-01	5 818 446.550	595 628.010	912.89	26/08/98	
A2-PE1-02	5 818 491.574	595 592.878	938.474	27/08/00	
A2-PE2-01	5 818 482.710	595 598.140	903.7	25/07/98	
A2-PE2-02	5 818 482.710	595 598.140	909.8	25/07/98	
A2-PE2-03	5 818 484.196	595 602.354	918.43	12/02/01	
A2-PE2-04	5 818 487.510	595 595.995	938.07	25/07/97	
A2-PE2-05	5 818 476.061	595 601.560	911.67	25/07/97	
A2-PE2-06	5 818 453.928	595 648.458	898.03	21/06/98	
A2-PE2-07	5 818 453.928	595 648.458	902.83	21/06/98	
A2-PE2-08	5 818 447.043	595 627.758	907.57	21/06/98	
A2-PE2-09			909.1		
A2-SM-09	NOT INSTALLED		942.5		
A2-SM-12			945		
B0-PE1-01	5 818 681.542	595 831.874	839.03	20/02/00	
B0-PE2-01	5 818 688.820	595 832.067	930.00	06/01/99	
B0-PE2-02	5 818 697.980	595 826.160	927.18	06/01/98	
B1-PE1-01	5 818 632.550	595 787.910	917.27	10/09/98	
B1-PE1-02	5 818 609.040	595 808.770	915.95	10/09/98	
B1-PE1-03	5 818 622.280	595 792.280	918.69	22/10/98	
B2-PE1-01	5 818 594.940	595 811.280	918.275	28/08/98	
B2-PE1-02	5 818 626.310	595 836.050	938.535	20/02/00	
B2-PE2-01	5 818 628.370	595 787.880	905.00	25/07/98	
B2-PE2-02	5 818 627.470	595 790.660	909.50	25/07/98	
B2-PE2-03	5 818 636.530	595 786.970	921.00	22/10/98	
B2-PE2-04	5 818 626.940	595 794.190	921.00	22/10/98	
B2-PE2-05	5 818 619.014	595 798.804	921.70	14/01/97	
B2-PE2-06	5 818 595.787	595 810.605	914.58	25/06/98	
B2-PE2-07			913.8		
B2-SM-10	NOT INSTALLED		942.5		
B2-SM-13			945		
**S01-1	5 818 450	595 640	918.5		
**S01-2	5 818 425	595 583	919		

SUMMARY OF INSTRUMENTATION INSTALLATIONS (con't)					
PIEZOMETER ID	NORTHING	EASTING	ELEV.	DATE INSTALLED	
C0-PE1-01	5 818 408.980	595 488.750	939.287	26/02/00	
C0-PE2-01	5 818 414.319	595 471.099	927.60	08/03/98	
C0-PE2-02	5 818 426.495	595 463.101	927.48	09/03/98	
C1-PE1-01	5 818 410.500	595 496.070	914.70	28/09/98	
C1-PE1-02	5 818 387.890	595 482.400	916.60	22/10/98	
C1-PE1-04	5 818 351.420	595 509.080	914.31	03/04/98	
C2-PE1-01	5 818 362.670	595 508.900	915.016	26/08/98	
C2-PE1-02	5 818 404.117	595 473.754	939.25	26/02/00	
C2-PE2-01	5 818 392.410	595 478.240	907.50	25/07/98	
C2-PE2-02	5 818 392.410	595 478.240	910.50	25/07/98	
C2-PE2-03	5 818 389.106	595 478.824	920.97	12/02/97	
C2-PE2-05	5 818 402.343	595 475.326	924.84	12/02/97	
C2-PE2-06	5 818 359.734	595 513.663	906.84	18/05/98	
C2-PE2-07	5 818 359.734	595 513.663	912.28	18/05/98	
C2-PE2-08	5 818 387.087	595 509.351	914.03	19/06/98	
C2-PE2-09			913.4		
C2-SM-11	NOT INSTALLED		942.5		
C2-SM-14			945		
**D1-PE1-01	5 818 742.01	595 353.980	928.78	30/01/98	
D1-PE1-01			934		
(D2-PE1-01)	5 818 775.449	595 310.522	930	26/08/98	
**D2-PE1-02			942		
D1-PE2-01	5 818 756.360	595 318.910	931.00	15/12/98	
D2-PE2-02	5 818 791.101	595 333.275	932	22/08/98	
**D2-SM-15			945		
D2-PE2-01	5 818 302.454	595 435.983	908	17/05/98	
D2-PE2-02	5 818 302.454	595 435.983	913	17/05/98	
**F1-PE2-01			937		
**F2-PE2-02			942.5		
**G2-PE1-01			942		
**G1-PE1-01			934		
**G2-SM-16			945		
**H1-PE1-01			934		
**H2-PE1-01			942		
**H3-SM-17			945		

LEGEND

- Plane I.D. (A, B etc.)
- Area (0-Tailings, 1-Drain, 2-Embankment)
- A0-PE1-01 - Number I.D.
- Pressure Rating (1-Low, 2-High)
- Type of Instrumentation (PE-Piezometer electric, SM-Survey Monument)
- A1-PE1-01 - Previously installed Piezometer
- *A2-PE2-09 - Stage 3A Piezometer
- **D2-PE1-02 - Stage 3B Piezometer
- *A2-SM-12 - Stage 3B Embankment Survey Monument
- A2-SM-01 - Current Embankment Survey Monument
- GW95-S - Groundwater Monitoring Well
- *S01-1 - Stage 3B Slope Inclinometer

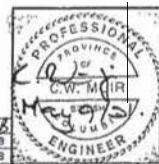
- () Piezometer no longer functioning.
* Installed during Stage 3A construction.
** To be installed during Stage 3B construction.
- NOTES**
- Dimensions are in millimeters unless otherwise noted.
 - Piezometer leads are to be extended as directed by the Engineer.
 - Seepage cutoffs placed at 5 m intervals with 10% bentonite added to fine grained till backfill.
 - Fine grained till backfill must have all particles exceeding 25 mm removed.



REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
251		TSF - STAGE 3 PERIMETER EMBANKMENT - INSTRUMENTATION PLAN				
250		TSF - STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION SECTIONS - SHEET 2 OF 2				
249		TSF - STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION SECTIONS - SHEET 1 OF 2				
248		TSF - STAGE 3 SOUTH EMBANKMENT - INSTRUMENTATION - PLAN				
247		TSF - STAGE 3 MAIN EMBANKMENT - INSTRUMENTATION - PLAN				

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
3	08MAY01	ISSUED FOR STAGE 3B TENDER				
2	26JAN01	STAGE 3B - CREST ELEVATION 945				
1	30OCT00	PERIMETER EMBANKMENT INSTRUMENTATION ADDED				
0	22JUN00	ISSUED FOR CONSTRUCTION				

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
3	08MAY01	ISSUED FOR STAGE 3B TENDER	CWM	DSR	JAL	2/5
2	26JAN01	STAGE 3B - CREST ELEVATION 945	JRK	WAL	JMT	KJB
1	30OCT00	PERIMETER EMBANKMENT INSTRUMENTATION ADDED	JRK	NSD	JMT	KJB
0	22JUN00	ISSUED FOR CONSTRUCTION	JRK	TAM	JDC	KJB



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

STAGE 3 TAILINGS EMBANKMENT

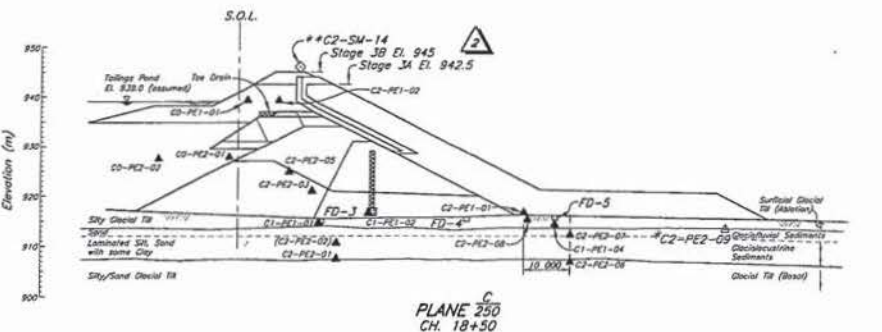
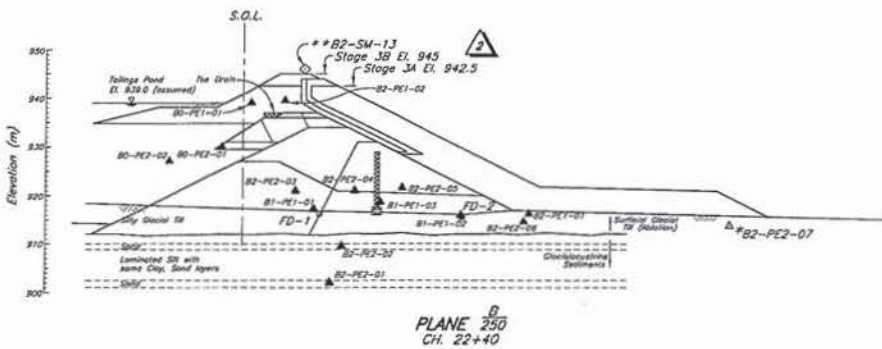
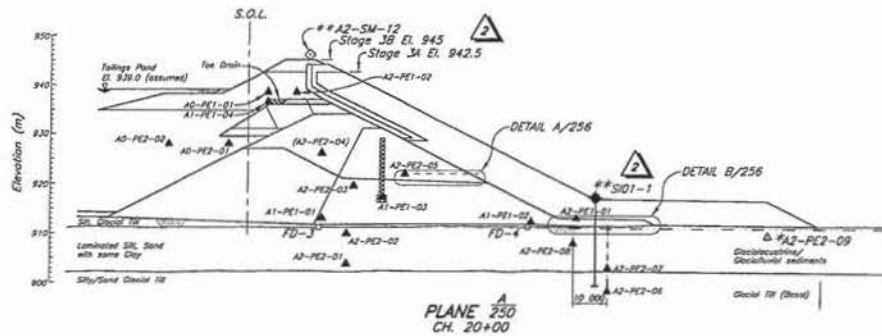
INSTRUMENTATION

SUMMARY OF INSTALLATION & TYPICAL DETAILS

Knight Piesold CONSULTING

SCALE: AS SHOWN

11162-13-256



NOTES

1. Piezometers are vibrating wire type, SINCA Model 52E11030 and RST Model 45005-0100 with a pressure rating of 100 psi or equivalent, connected to a readout panel via standard non-vented direct burial cable.
2. Piezometer leads extended as directed by the Engineer.
3. Zone fill materials and drain pipes not shown in drawing for clarity. For Details see Drg.'s 130, 215.
4. See Drg. No. 11162-13-256 for Summary of Instrumentation Installations, Typical Details, General Notes and Legend.
5. Instrumentation with one asterisk indicates placement during Stage 3A construction. Instrumentation with 2 asterisks indicate placement during Stage 3B construction.

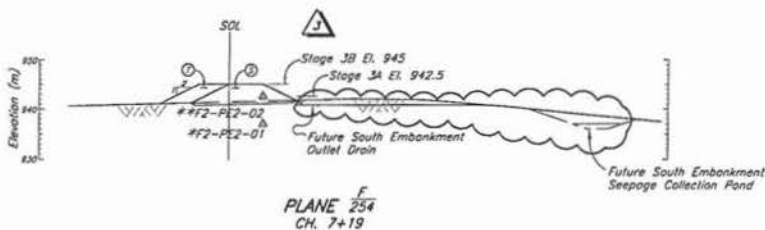
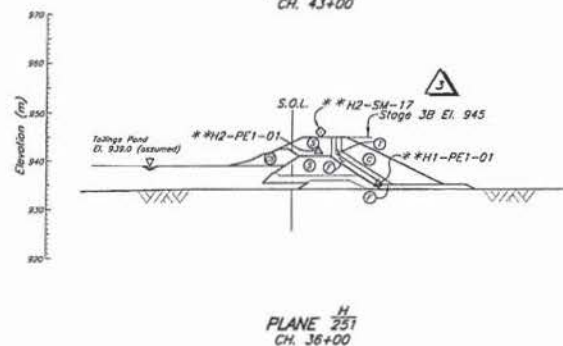
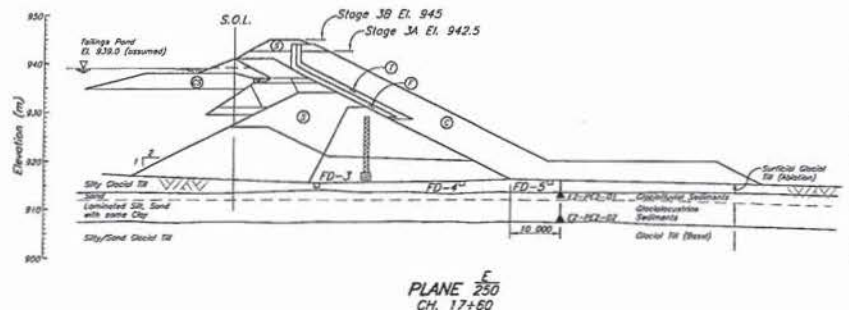
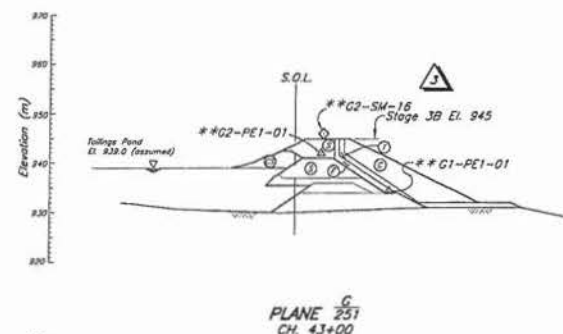
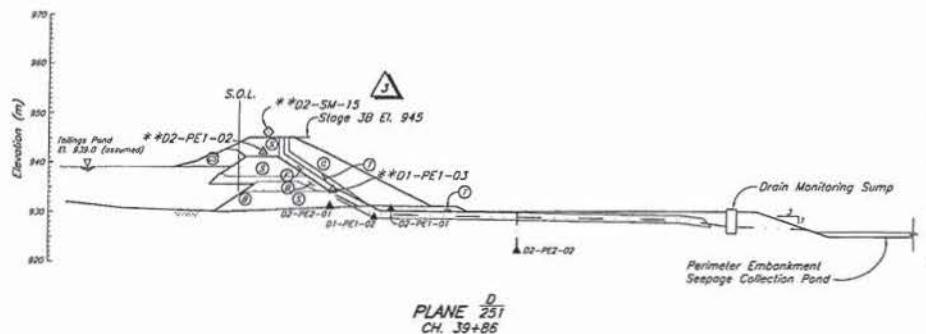


DWG. NO.	DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
256	TSF - STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SECTIONS 2 OF 2														
256	TSF - STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SUMMARY OF INSTALLATION & TYP. DETAILS														
250	TSF - STAGE 3 MAIN EMBANKMENT - INSTRUMENTATION - PLAN														

2	08MAY'01	ISSUED FOR STAGE 3B TENDER	OWM	DSR	JRK	ZJS
1	26JUN'01	STAGE 3B - CREST ELEVATION 945	JRK	AW	JMTW	KJB
0	23JUN'00	ISSUED FOR CONSTRUCTION	JRK	TAM	JOC	KJB

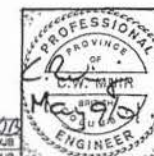


MOUNT POLLEY MINING CORPORATION	
MOUNT POLLEY MINE	
TAILINGS STORAGE FACILITY	
STAGE 3 TAILINGS EMBANKMENT	
INSTRUMENTATION	
SECTIONS - SHEET 1 OF 2	
KNIGHT PIESOLD CONSULTING	11162-13-256



NOTE

- See Drg. No. 11162-13-256 for Summary of Instrumentation Installations, Typical Details, General Notes and Legend.
- Instrumentation with one asterisk indicates placement during Stage 3A construction. Instrumentation with 2 asterisks indicate placement during Stage 3B construction.



MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
STAGE 3 TAILINGS EMBANKMENT
INSTRUMENTATION
SECTIONS - SHEET 2 OF 2

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CONSULTING
SCALE AS SHOWN
REVISION 3
DRAWING NO. 11162-13-259

REF. NO.	DESCRIPTION
256	TSP - STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION SUMMARY OF INSTALLATION & TYPICAL DETAILS
254	TSP - STAGE 3 TAILINGS EMBANKMENT - SOUTH EMBANKMENT - INSTRUMENTATION PLAN
251	TSP - STAGE 3 PERIMETER EMBANKMENT - INSTRUMENTATION PLAN
250	TSP - STAGE 3 TAILINGS EMBANKMENT - MAIN EMBANKMENT - INSTRUMENTATION PLAN

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
1	05MAY01	ISSUED FOR STAGE 3B TENDER	JRK	AW	JNTW	KJB
2	26JAN01	STAGE 3B - CREST ELEVATION 945	JRK	NSS	JNTW	KJB
3	20OCT00	PERIMETER EMBANKMENT SECTIONS ADDED	JRK	TAN	ABW	KJB
4	24JUN00	ISSUED FOR CONSTRUCTION	JRK	TAN	ABW	KJB

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
1	05MAY01	ISSUED FOR STAGE 3B TENDER	JRK	AW	JNTW	KJB
2	26JAN01	STAGE 3B - CREST ELEVATION 945	JRK	NSS	JNTW	KJB
3	20OCT00	PERIMETER EMBANKMENT SECTIONS ADDED	JRK	TAN	ABW	KJB
4	24JUN00	ISSUED FOR CONSTRUCTION	JRK	TAN	ABW	KJB

Knight Piésold
CONSULTING

Mount Polley Site Office Fax: (250) 790-2268
www.knightpiésold.com

DATE: June 6, 2001 FILE NO.: 11162/14.F01/.F02/
/F04/.F05/.F08
TIME: REF NO.: 01-04
OPERATOR: PAGES: 1 of 20
SENDER: Wilson Muir

TO: Ministry of Energy and Mines, Victoria B.C. FAX : 250-952-0481
ATTN: Chris Carr
CC: Ken Brouwer, KP Vancouver
Don Parsons / Eric LeNeve, MPMC Site
SUBJECT: Progress Report No. 9

Dear Mr. Carr,

Please find enclosed a copy of Progress report No. 9. If you have any questions, please do not hesitate to contact me on site or Ken Brouwer in our Vancouver office.

Regards,


C. Wilson Muir, P.Eng.
Resident Engineer
Knight Piésold Consulting

MINISTRY OF
ENERGY AND MINES

REC'D JUN 06 2001

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
PROGRESS REPORT NO. 9 - MAY 28 TO JUNE 3, 2001

SECTION 1.0 - GENERAL

Mount Polley Mining Corporation (MPMC) commenced Stage 3B construction activities. Knight Piésold Ltd. (KP) carried out QA/QC activities during the reporting period.

The scope of work includes:

1. Placement of Zones F, T and C to approximate El. 941.5 m on the Perimeter Embankment (Ch. 32+00 to 44+50). MPMC will carry out this work.
2. Placement of Zones CBL, S, F, T and C on the Main, Perimeter and South Embankments to El. 945 m. This work will be carried out under contract. A Contractor for this work has yet to be determined.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- Wilson Muir, Resident Engineer.

The following MPMC personnel were on site during the reporting period:

- Don Parsons, Mine Superintendent
- Eric LeNevé, Tailings Coordinator
- Charlie O'Hara, General Foreman
- Don Jameson, Site Foreman

1.2 CONTRACT DEVELOPMENTS

No new contract developments occurred during the reporting period. As mentioned above, a Contractor will be chosen to carry out a portion of the Stage 3B embankment raise.

1.3 DESIGN DEVELOPMENTS

The permit to construct the embankments to El. 945 m has been approved by the Ministry of Energy and Mines. This elevation will provide tailings and storm water storage through August, 2002. The Perimeter Embankment will be constructed with a downstream rockfill shell zone, instead of cycloned sand.

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1.3 WEATHER

Conditions were unsettled during the reporting period. This included periods of cloud, rain and sunshine. Maximum daytime highs reached about +20 °C and nightly lows sank to as low as 0 °C.

1.4 SAFETY

No safety incidents were reported over the reporting period.

SECTION 2.0 - TAILINGS FACILITY OPERATION AND MAINTENANCE

Tailings were spigotted along the Main Embankment crest during the reporting period at approximate Chainage 19+00. Beach development is being accelerated at the southwest corner of the impoundment in order to establish tailings beaches behind the Main and South Embankments. The Tailings Pond remains a significant distance from the Perimeter Embankment.

SECTION 3.0 - CONSTRUCTION ACTIVITIES

3.1 EQUIPMENT

MPMC used the following equipment over the reporting period:

- Excavators: 1 Hitachi EX 400 and 1 Hitachi EX 270
- Haul Trucks: 2 Caterpillar 777 85T
- Loaders: 1 Caterpillar 992
- Dozers: 1 Caterpillar D9N, 1 Caterpillar D8R, 1 Caterpillar D7G and 1 Caterpillar D6H
- Compactors: 1 Caterpillar CS 563 10T vibratory smooth drum
- Drills: 1 Svedala STK
- Service and fuel trucks

MPMC carried out the following activities during the reporting period:

- Removal of saturated fill from the downstream face of the Perimeter Embankment.
- Placement of Zone F fill on the Perimeter Embankment, Ch. 40+00 to 44+50, El. 929 to 934 m, Ch. 35+00 to 39+00, El. 932 to 935 m.
- Placement of Zone T fill on the Perimeter Embankment, Ch. 40+00 to 44+50, El. 929 to 934 m.
- Placement of Zone C fill on the Perimeter Embankment, Ch. 40+00 to 44+50, El. 929 to 931 m.
- Development of the Rock Borrow for Zones T and C materials.

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Zones T and C were supplied from the Rock Borrow. Zone F was supplied from the processed filter sand pile at the millsite. Zones F and T were placed in 1 metre thick lifts, prior to compaction, directly on the downstream slope of the Perimeter Embankment. Segregation of the materials during placement was monitored and deemed to be minimal. Zone C was placed in 1 metre thick, horizontal lifts to the downstream toe of the Stage 3B Perimeter Embankment.

SECTION 4.0 - KNIGHT PIÉSOLD ACTIVITIES

4.1 GENERAL

KP activities over the reporting period included the following:

- Monitoring and inspection of saturated material removal and fill placement of Zones F, T and C.
- Submission of daily summaries of QA/QC and construction activities to MPMC.
- Control and Record sampling and testing of embankment fill materials.
- Ongoing discussions and correspondence with MPMC and KP Vancouver with regard to current and future design.
- Preparation of progress reports.

4.2 Laboratory Testing

The following samples were processed during the reporting period:

- C-ZF-31, 32 and 33
- R-ZF-31 and 32

All samples tested proved suitable for Zone F, with the exception of C-ZF-33. This sample was taken from a portion of the pile that was not mixed. MPMC was informed that the pile needed to be mixed prior to fill placement. All tests carried out during the reporting period are presented in the attached tables and figures.

SECTION 5.0 - MONITORING

5.1 GENERAL

Instrumentation was monitored during the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

5.2 VIBRATING WIRE PIEZOMETERS

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No new piezometers were installed over this period. Piezometer readings are taken on a weekly basis. The results from the monitoring are shown on Figures 5.1 to 5.6. Locations of the piezometers are presented on the attached Drawings.

Foundation Piezometers

No substantial changes were noted in the foundation piezometers.

Fill Piezometers

The majority of the Main Embankment glacial till piezometers responded to construction of the overlying Stage 3A fills with increasing pore pressures. The piezometers continue to decrease following the stop in construction.

Two piezometers located within the Stage 1A glacial till fill have historically registered anomalous values, and warrant discussion.

Piezometer B2-PE2-03 reacted strongly to fill placement during initial construction. Pore pressures did not dissipate in the periods following fill placement, but remained constant. This is in direct contrast to other instruments located nearby. This trend changed in 1999, when B2-PE2-03 began to show dissipation at the completion of fill placement. This new trend has been repeated three times, with approximately the same dissipation rate after each stage of construction, with an increase in pore pressure between 50 and 100% of the increase in total stress. It appears that drainage paths were limited in the fill around this piezometer and pore pressures are still equilibrating.

Piezometer C2-PE2-05 is also located in the Stage 1A glacial till fill. This instrument historically showed little or no reaction to construction, but indicated a slow, steady increase in pore pressure over time. This suggests that pore pressures in the fill around C2-PE2-05 are reaching a steady state condition as the phreatic surface moves through the fill. It should be noted that the pressure head registered by this piezometer is approximately 10 m. This is similar to other piezometers located in comparable locations in the glacial till fill.

Drain Piezometers

All drain piezometers have remained static and at very low head indicating free draining conditions within the embankment drainage systems.

Tailings Piezometers

Water levels at the tailings piezometers continue to mimic the pond level, except at the Main Embankment, where the upstream toe drain has resulted in a depressed phreatic surface.



SECTION 5.0 - ONGOING ITEMS

Distribution: Eric LeNeve, Tailings Coordinator, MPMC Site
Don Parsons, Mine Superintendent, MPMC Site
Chris Carr, Ministry of Energy and Mines, Victoria, B.C.
Ken Brouwer, KP Vancouver

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RECORDS 13 Page 200 of 438

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SHEET:	1 of 1
PERIOD:	May 28 to June 3, 2001
PROJECT NO.:	1116214
AREA:	TSE

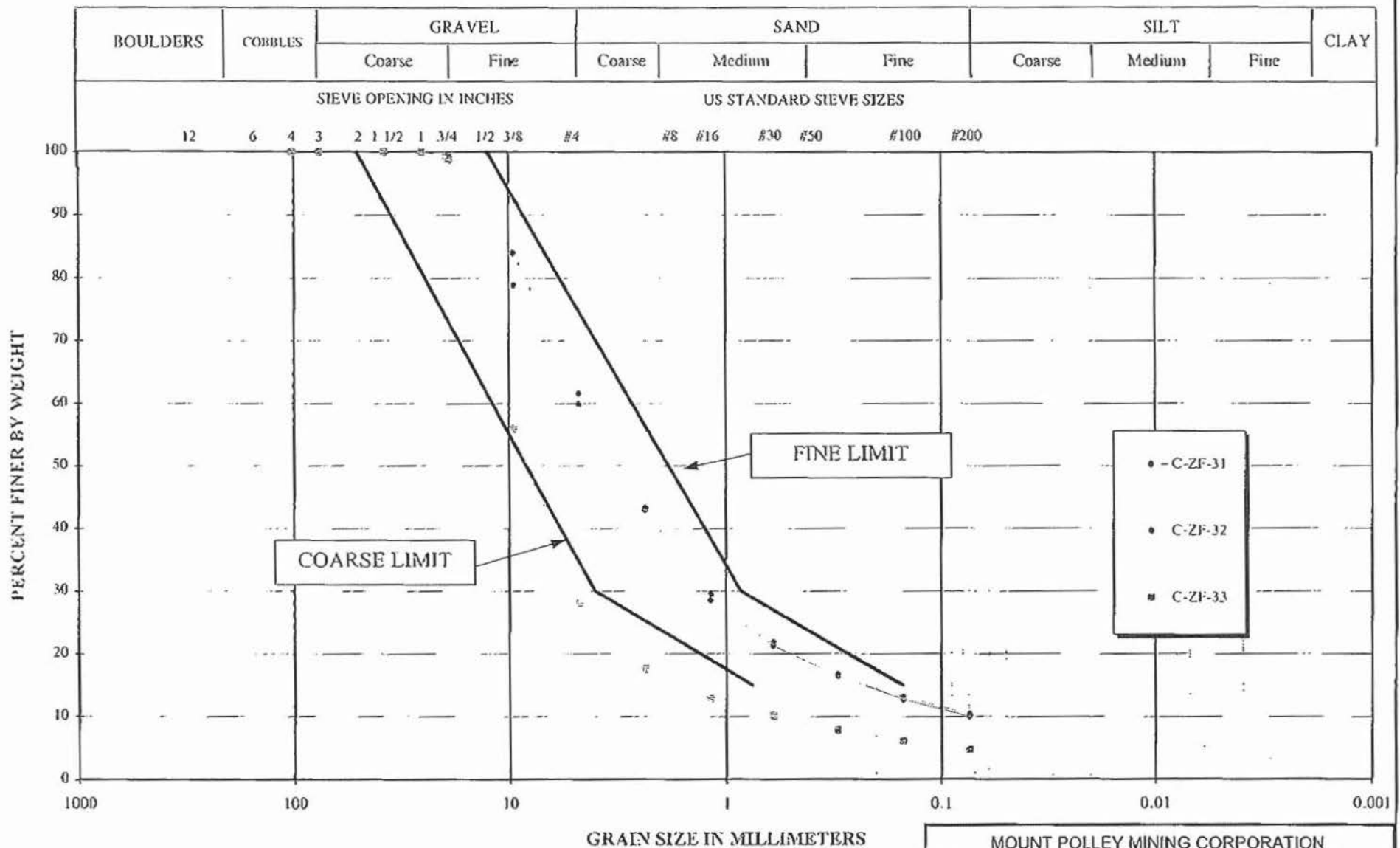
PERIOD:	May 28 to June 3, 2001
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AREA:	TSP
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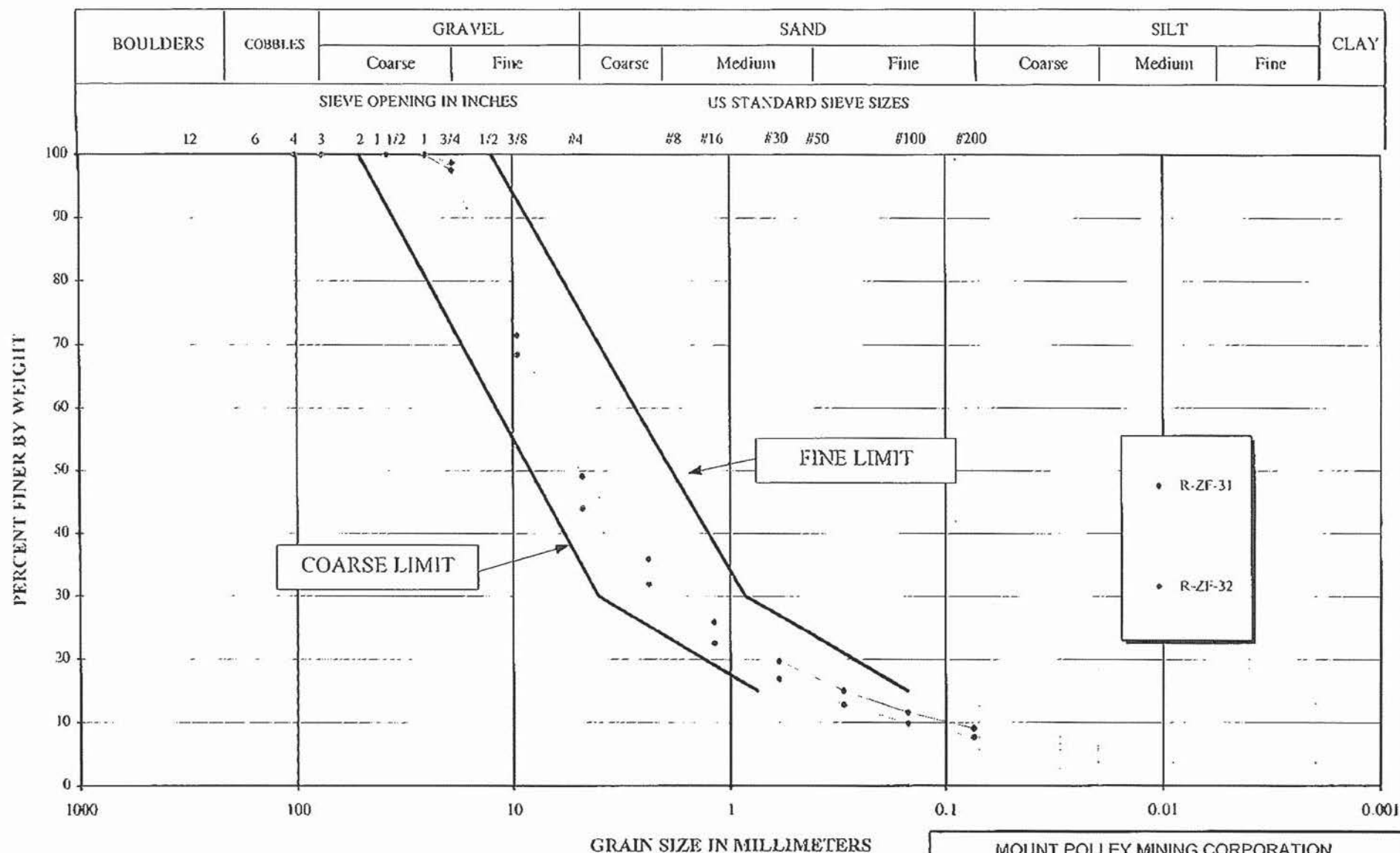
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Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

R1	Atterberg Limits (ASTM D4318)
R2	Moisture Content (ASTM D2216)
R3	Particle Size Distribution (ASTM D422)
R4	Laboratory Compaction (ASTM D1557)
R6	Specific Gravity (ASTM D854)



MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY - STAGE 3B		
CONSTRUCTION - ZONE F CONTROL SAMPLES		
GRADATION CURVES		
Knight Piésold CONSULTING	PROJECT NO. 11162/14	REF. NO. REV
	FIGURE 4.1	



MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY - STAGE 3B		
CONSTRUCTION - ZONE F RECORD SAMPLES		
GRADATION CURVES		
Knight Piésold CONSULTING	PROJECT NO	REF NO
	11162/14	
		REV
		FIGURE 4.2

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE A PIEZOMETERS

- | | | | |
|------------------|------------------|-------------|-------------|
| - - - Pond Level | — Fill Elevation | * A0-PE2-01 | — A0-PE2-02 |
| - - - A1-PE1-01 | — A1-PE1-02 | ◇ A1-PE1-03 | — A2-PE1-01 |
| — A2-PE2-01 | — A2-PE2-02 | ◆ A2-PE2-03 | — A2-PE2-05 |
| — A2-PE2-06 | — A2-PE2-07 | — A2-PE2-08 | — A1-PE1-04 |
| — A2-PE1-02 | — A0-PE1-01 | ◆ A2-PE1-03 | |

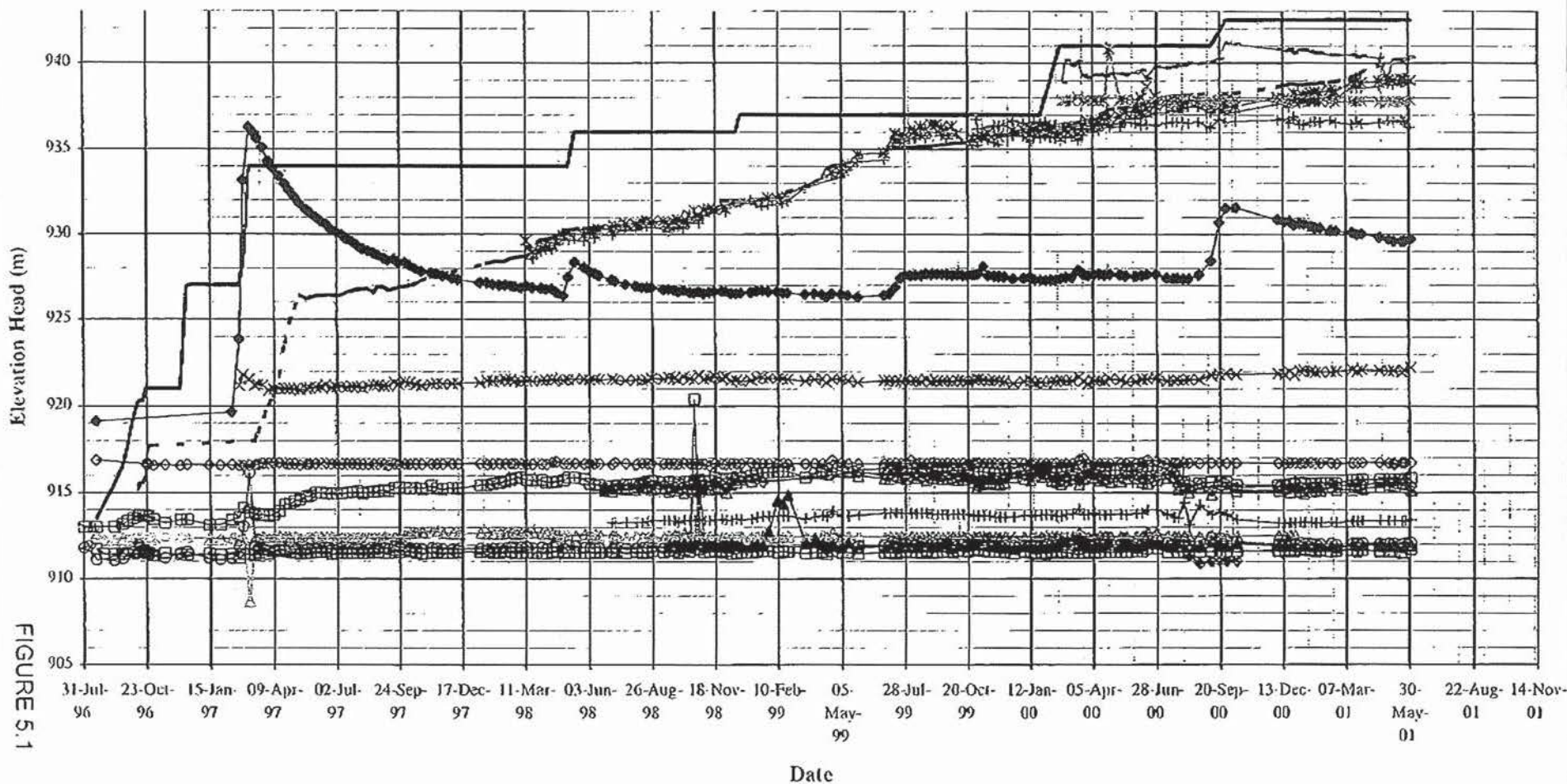


FIGURE 5.1

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE B PIEZOMETERS

KNIGHT PIESOLD
CONSULTING

— Pond Level	— Fill Elevation	■ B0-PE2-01	● B0-PE2-02	▲ B1-PE2-01
□ B1-PE1-01	○ B1-PE1-03	▲ B2-PE1-01	□ B2-PE2-01	○ B2-PE2-02
◆ B2-PE2-03	* B2-PE2-04	× B2-PE2-05	△ B2-PE2-06	--- B0-PE1-01
× B2-PE1-02	• B2-PE1-03			

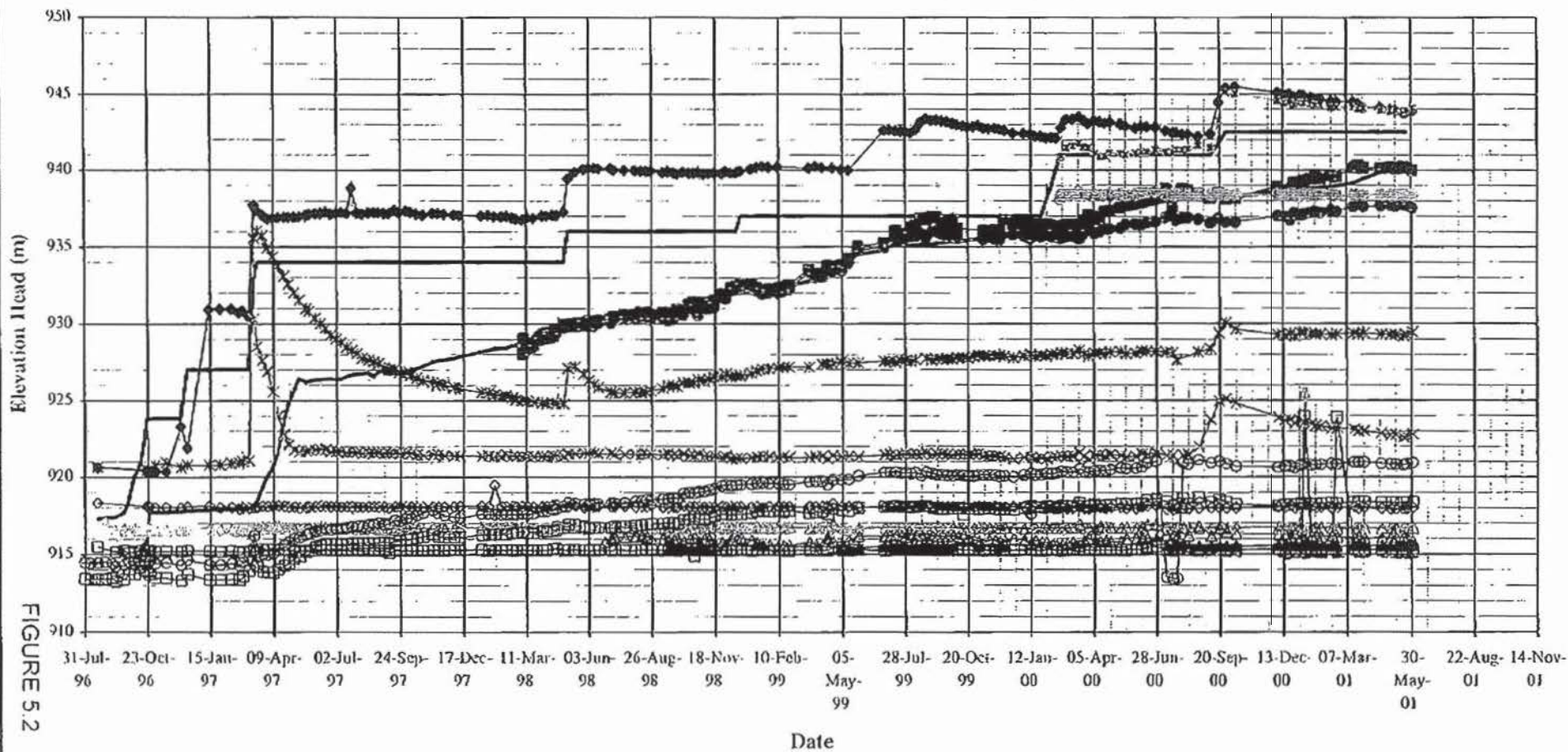


FIGURE 5.2

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE C PIEZOMETERS

KNIGHT PIESOLD
CONSULTING

- | | | |
|--------------|------------------|-------------|
| — Pond Level | — Fill Elevation | — C0-PE2-01 |
| — C0-PE2-02 | — C1-PE1-01 | — C1-PE1-02 |
| — C1-PE1-04 | — C2-PE1-01 | — C2-PE2-01 |
| — C2-PE2-02 | — C2-PE2-03 | — C2-PE2-05 |
| — C2-PE2-06 | — C2-PE2-07 | — C2-PE2-08 |
| — C0-PE1-01 | — C2-PE1-02 | — C2-PE1-03 |

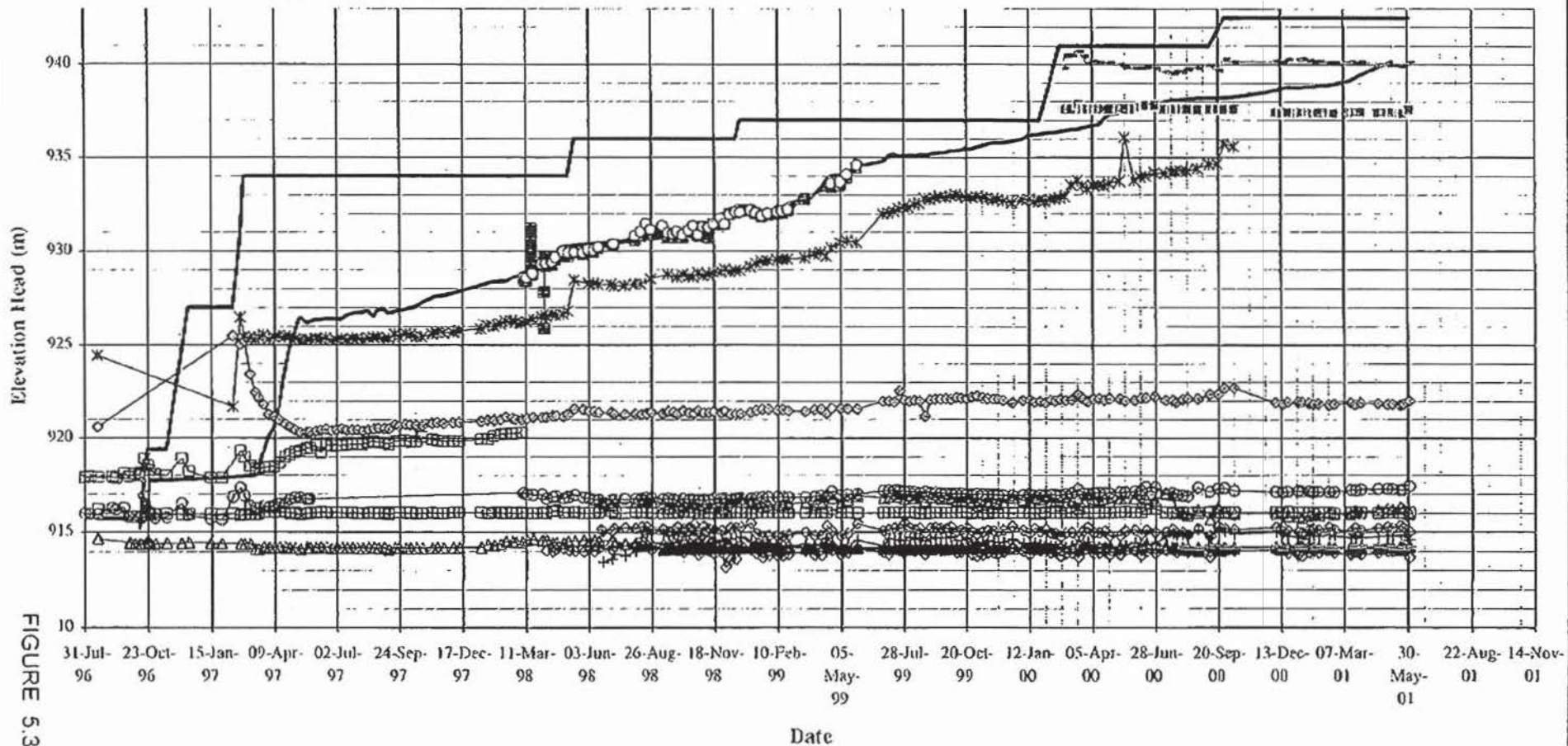


FIGURE 5.3

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE D PIEZOMETERS

— Pond Level — Fill Elevation —□— D1-PE1-02
 —▲— D2-PE1-01 —◆— D2-PE2-01 —□— D2-PE2-02

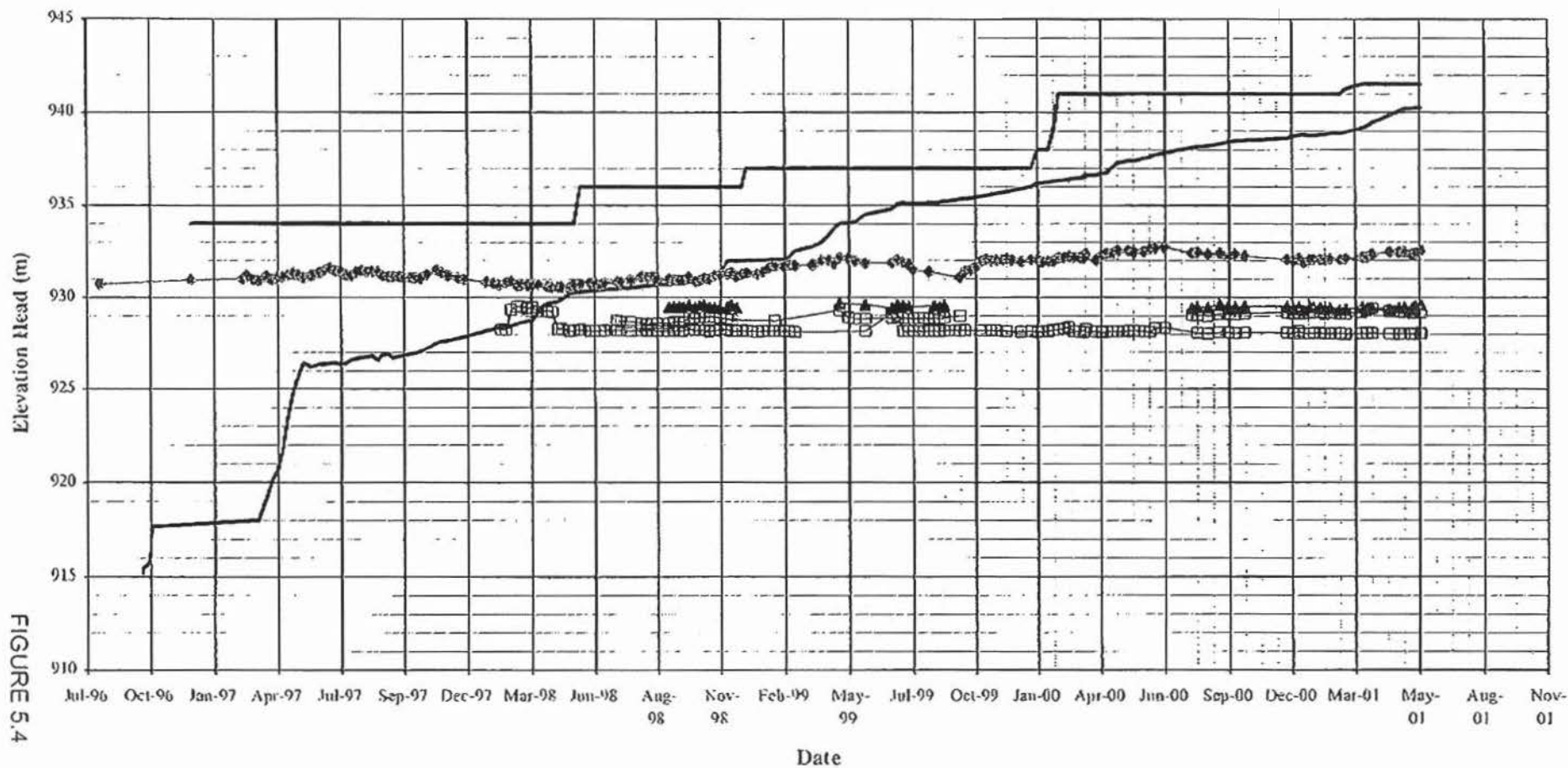


FIGURE 5.4

KNIGHT PIESOLD
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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE E PIEZOMETERS

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Elevation Head (m)

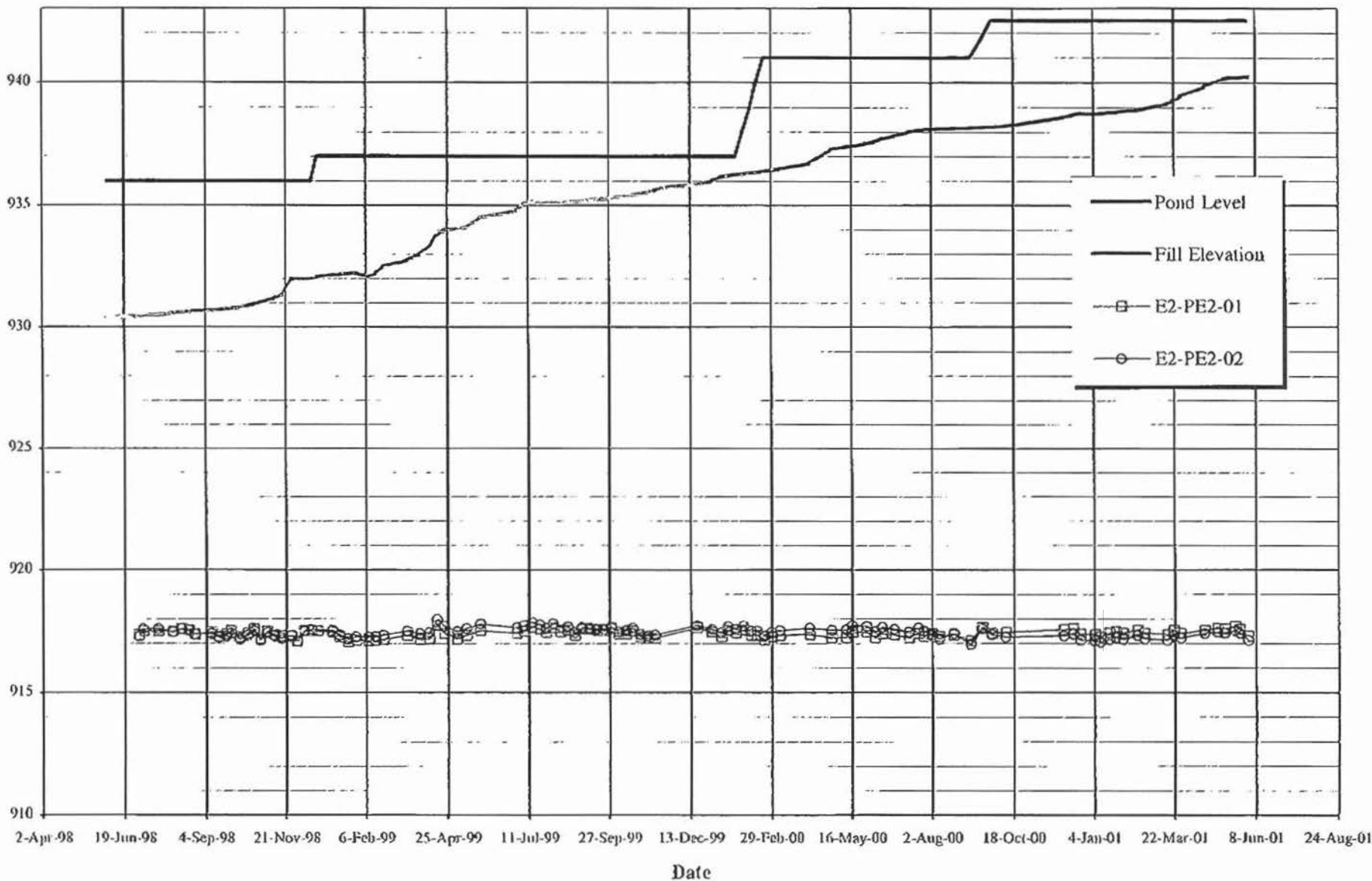


FIGURE 5.5

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE F PIEZOMETERS

KNIGHT PIESOLD
CONSULTING

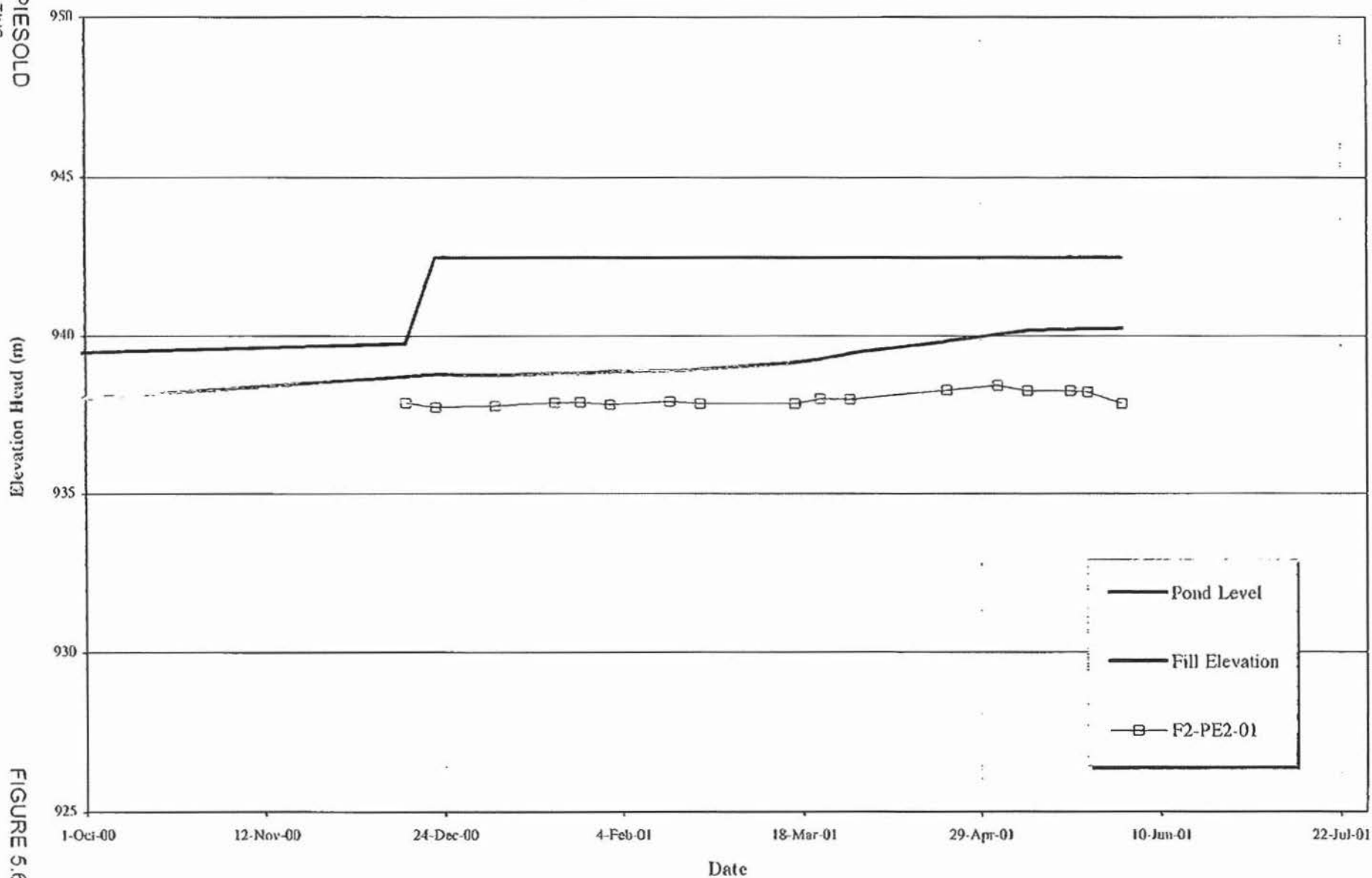
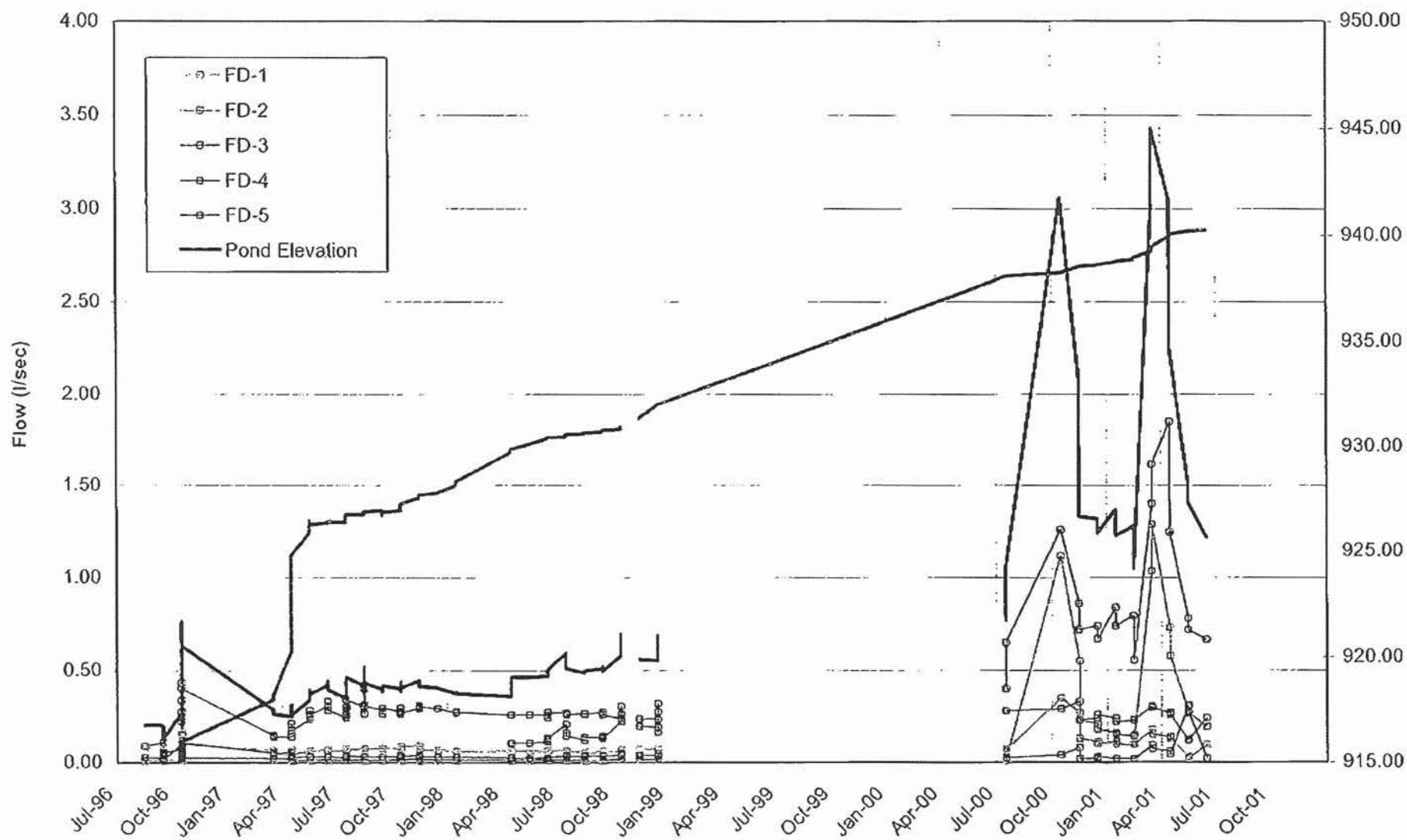


FIGURE 5.6



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

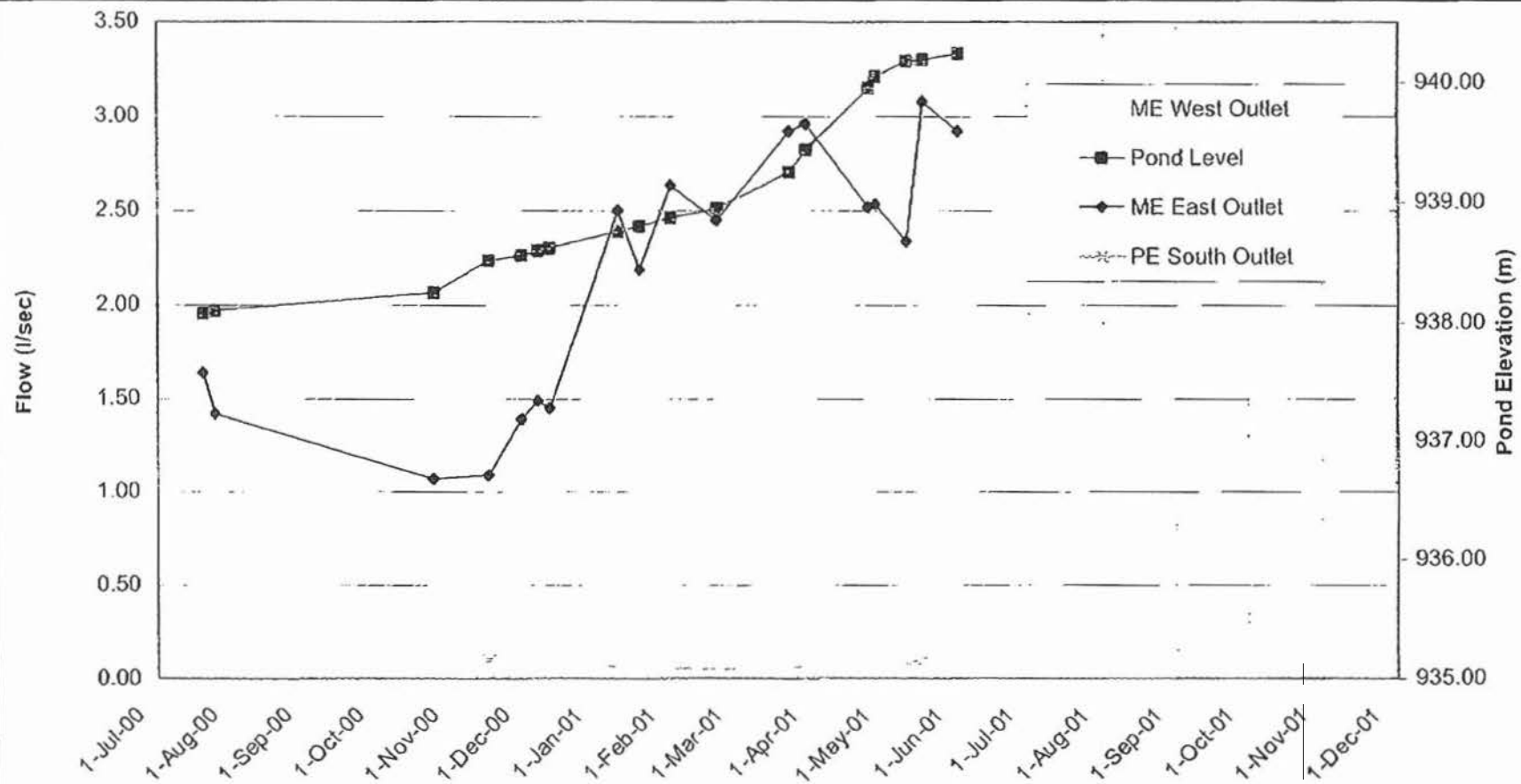
MAIN EMBANKMENT

FOUNDATION DRAIN FLOWS

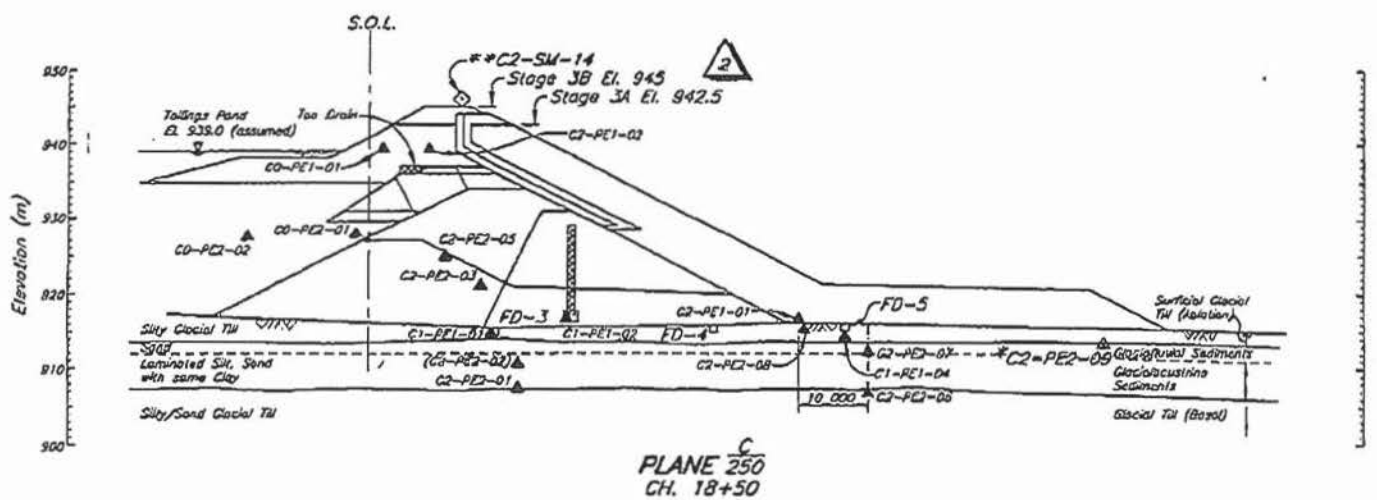
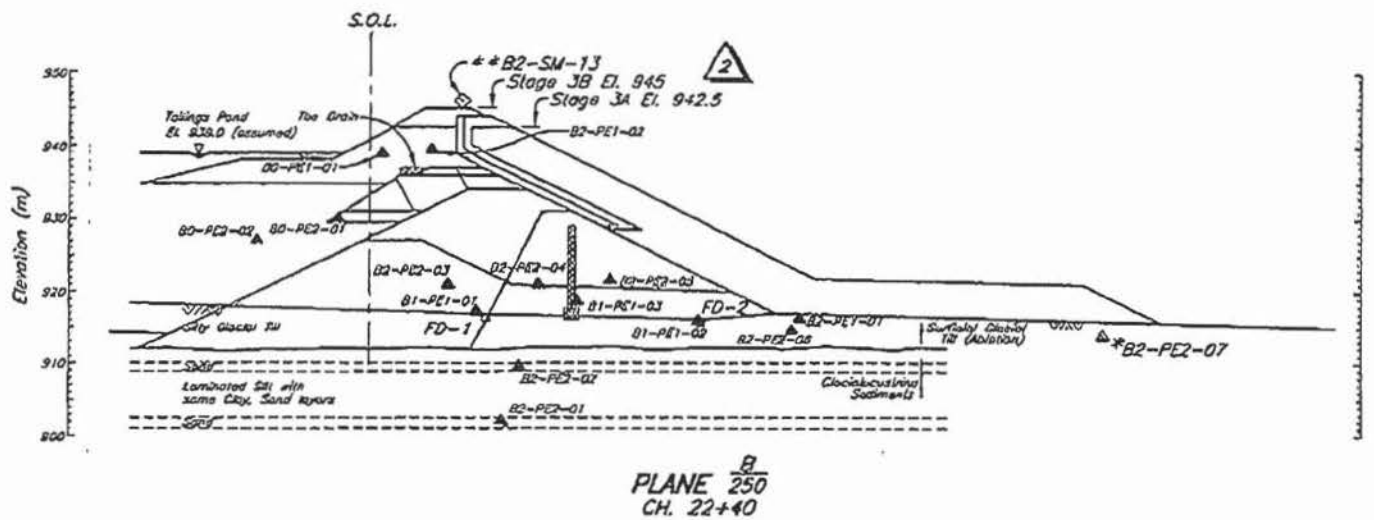
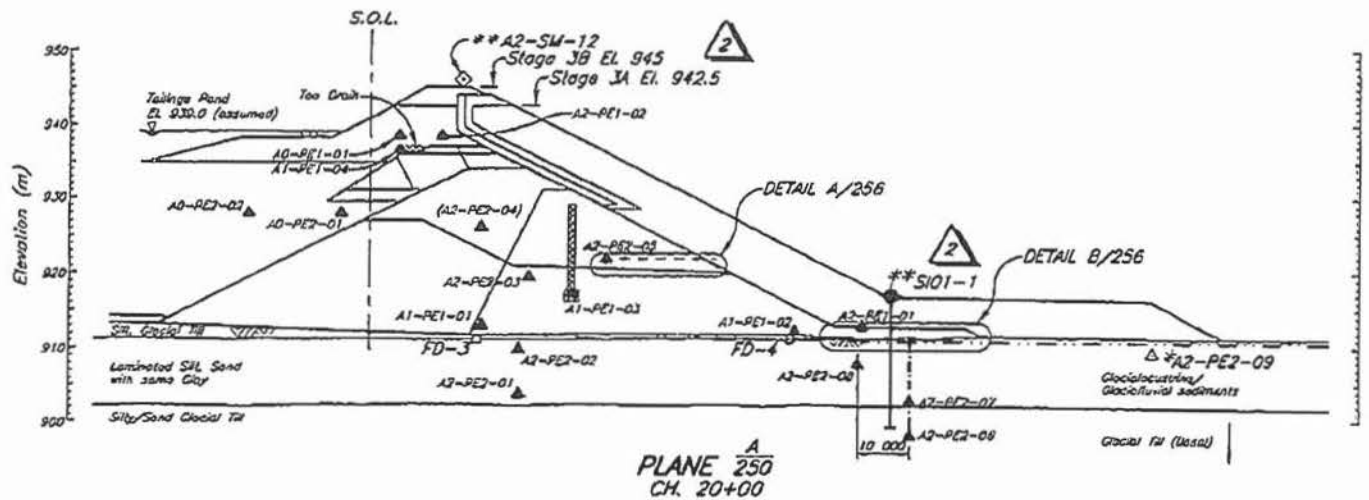
Knight Piésold
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PROJECT NO.	REF NO.	REV.
11162/13		

FIGURE 5.7



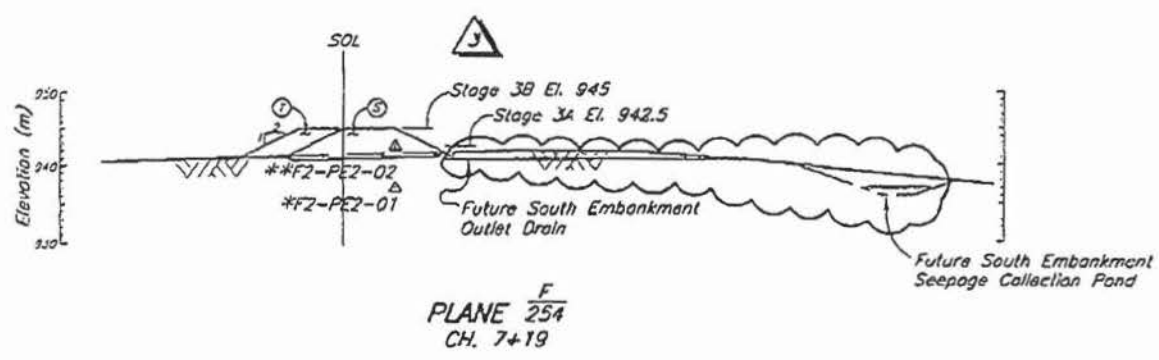
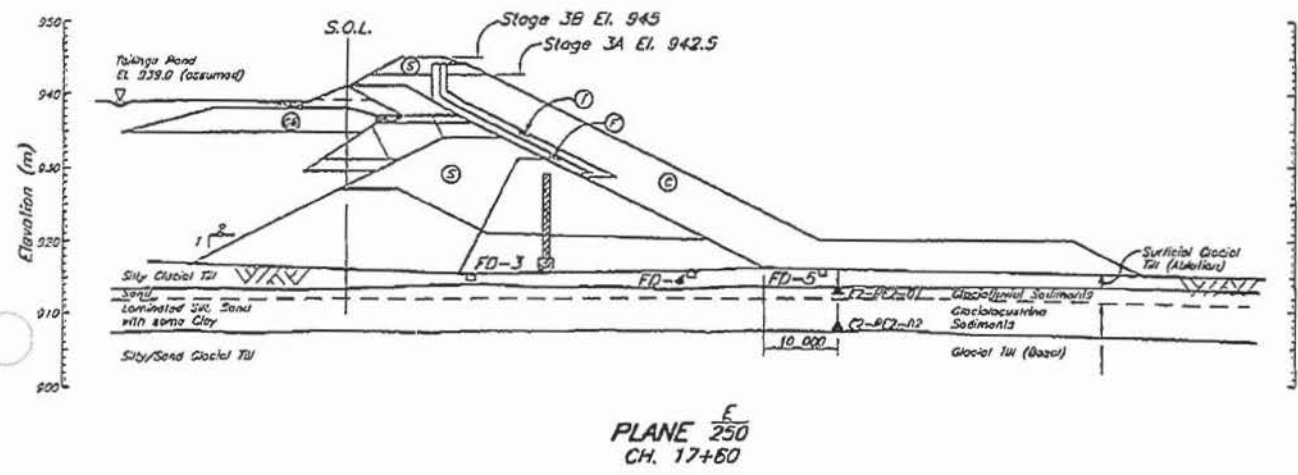
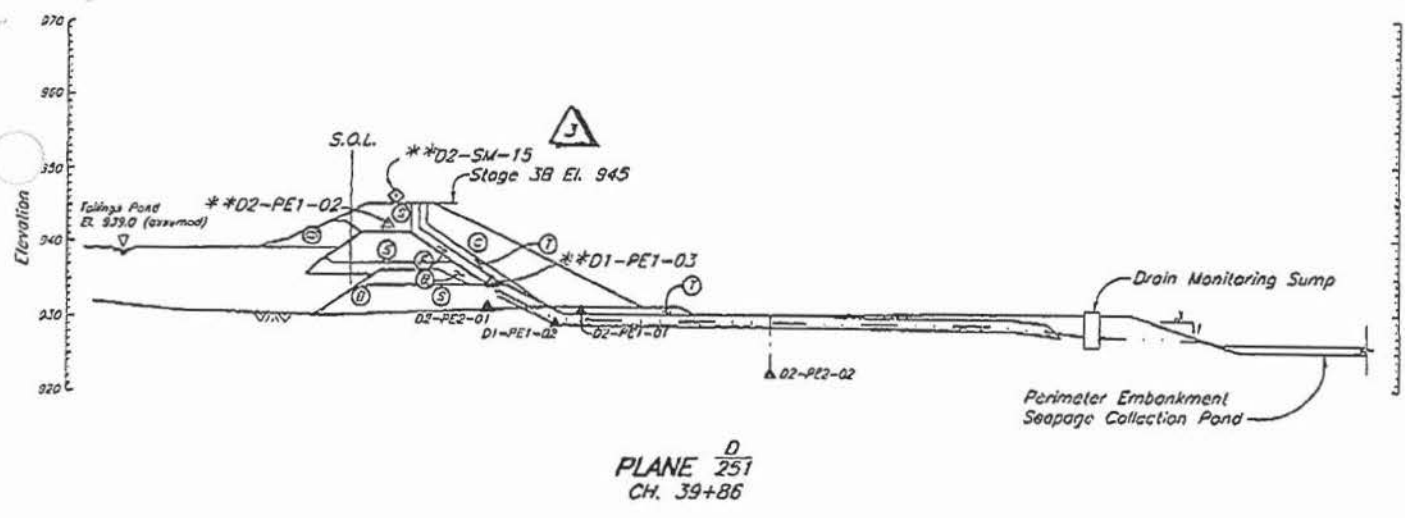
MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY UPSTREAM TOE DRAIN FLOWS		
<i>Knight Piesold</i> CONSULTING	PROJECT NO 11162/13	REF. NO.
	REV	
	FIGURE 5.8	



STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SECTIONS 2 OF 2
STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SUMMARY OF INSTALLATION & TYP. DETAILS
STAGE 3 MAIN EMBANKMENT - INSTRUMENTATION - PLAN

DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK'D	APP'D	REV.	DATE
REFERENCE DRAWINGS			REVISIONS						

2	08MAY'01	ISSUED FC
1	26JAN'01	STAGE 3B
0	2JUN'00	ISSUED FC



STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION SUMMARY OF INSTALLATION & TYPICAL DETAILS			
STAGE 3 TAILINGS EMBANKMENT - SOUTH EMBANKMENT - INSTRUMENTATION PLAN			
STAGE 3 PERIMETER EMBANKMENT - INSTRUMENTATION PLAN			
STAGE 3 TAILINGS EMBANKMENT - MAIN EMBANKMENT - INSTRUMENTATION PLAN			
DESCRIPTION	REV.	DATE	DESCRIPTION

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

3	08MAY'01	ISSUED FOR
2	26JAN'01	STAGE 3B
1	20OCT'00	PERIMETER
0	2JUN'00	ISSUED FOR

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Knight Piésold
CONSULTING

Mount Polley Site Office Fax: (250) 790-2268
www.knightpiesold.com

DATE: June 15, 2001 FILE NO.: 11162/14.F01/.F02/
/F04/.F05/.F08
TIME: REF NO.: 01-09
OPERATOR: PAGES: 1 of 20
SENDER: Wilson Muir

TO: Ministry of Energy and Mines, Victoria B.C. FAX: 250-952-0481
ATTN: Chris Carr
CC: Ken Brouwer, KP Vancouver
Don Parsons / Eric LeNeve, MPMC Site
SUBJECT: Progress Report No. 10

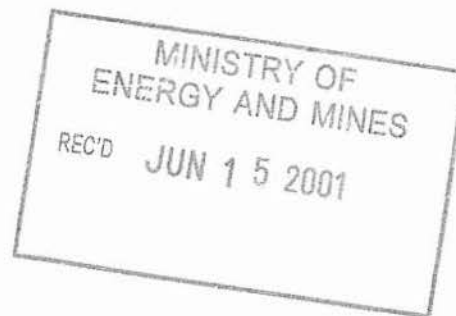
Dear Mr. Carr,

Please find enclosed a copy of Progress report No. 10 from June 3 to June 10, 2001. If you have any questions, please do not hesitate to contact me on site or Ken Brouwer in our Vancouver office.

Regards,



C. Wilson Muir, P.Eng.
Resident Engineer
Knight Piésold Consulting



Knight Piésold
CONSULTING**MOUNT POLLEY MINING CORPORATION**
MOUNT POLLEY MINE**TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION**
PROGRESS REPORT NO. 10 - JUNE 4 TO JUNE 10, 2001**SECTION 1.0 - GENERAL**

Mount Polley Mining Corporation (MPMC) continued Stage 3B construction activities. Knight Piésold Ltd. (KP) carried out QA/QC activities during the reporting period.

The scope of work includes:

1. Placement of Zones F, T and C to approximate El. 941.5 m on the Perimeter Embankment (Ch. 32+00 to 44+50). MPMC will carry out this work.
2. Placement of Zones CBL, S, F, T and C on the Main, Perimeter and South Embankments to El. 945 m. This work will be carried out under contract. A Contractor for this work has yet to be determined.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- Wilson Muir, Resident Engineer.

The following MPMC personnel were on site during the reporting period:

- Don Parsons, Mine Superintendent
- Eric LeNeve, Tailings Coordinator
- Charlie O'Hara, General Foreman
- Don Jameson, Site Foreman

1.2 CONTRACT DEVELOPMENTS

No new contract developments occurred during the reporting period. As mentioned above, a Contractor will be chosen to carry out a portion of the Stage 3B embankment raise.

MPMC has completed a construction schedule for the project. All work is to be complete by September 30, 2001. The schedule calls for MPMC to complete their portion of work by July 15, 2001. The Contractor is to begin work on July 15 and to finish on September 30, 2001. This schedule is subject to modification; however, the schedule will be ultimately governed by freeboard concerns at the TSF.

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1.3 DESIGN DEVELOPMENTS

No new design developments have occurred over the reporting period.

1.3 WEATHER

Conditions were unsettled during the reporting period. This included periods of cloud, rain and sunshine. Maximum daytime highs reached about +20 °C and nightly lows sank to as low as 0 °C.

1.4 SAFETY

No safety incidents were reported over the reporting period.

SECTION 2.0 - TAILINGS FACILITY OPERATION AND MAINTENANCE

Tailings were spigotted along the Main Embankment crest during the reporting period at approximate Chainage 19+00. Beach development is being accelerated at the southwest corner of the impoundment in order to establish tailings beaches behind the Main and South Embankments. It is expected that the Main Embankment will have a continuous beach by June 17. Pipe fusing was carried out over the reporting period to extend the tailings line to Ch. 17+00.

The Tailings Pond remains a significant distance from the Perimeter Embankment.

SECTION 3.0 - CONSTRUCTION ACTIVITIES

3.1 EQUIPMENT

MPMC used the following equipment over the reporting period:

- Excavators: 1 Hitachi EX 400 and 1 Hitachi EX 270
- Haul Trucks: 2 Caterpillar 777 85T
- Loaders: 1 Caterpillar 992
- Dozers: 1 Caterpillar D9N, 1 Caterpillar D8R
- Compactors: 1 Caterpillar CS 563 10T vibratory smooth drum
- Service and fuel trucks

MPMC carried out the following activities during the reporting period:

- Removal of saturated fill from the downstream face of the Perimeter Embankment, Ch. 43+25 to 44+75, El. 937 to 941.5 m.
- Placement of Zone C fill on the Perimeter Embankment, Ch. 40+00 to 43+25, El. 930 to 932.5 m.

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- Development of the Rock Borrow for Zones T and C materials.
- Crushing of mine waste at the mill for Zone F material.

Zone C was supplied from the Rock Borrow. Zone C was placed in 1 metre thick, horizontal lifts to the downstream toe of the Stage 3B Perimeter Embankment.

SECTION 4.0 - KNIGHT PIÉSOLD ACTIVITIES**4.1 GENERAL**

KP activities over the reporting period included the following:

- Monitoring and inspection of saturated material removal and fill placement of Zone C.
- Submission of daily summaries of QA/QC and construction activities to MPMC.
- Control and Record sampling and testing of embankment fill materials.
- Ongoing discussions and correspondence with MPMC and KP Vancouver with regard to current and future design.
- Preparation of progress reports.

4.2 Laboratory Testing

The following samples were processed during the reporting period:

- C-ZT-1
- R-ZT-12

All samples tested proved suitable for Zone T. All tests carried out during the reporting period are presented in the attached tables and figures.

SECTION 5.0 - MONITORING**5.1 GENERAL**

Instrumentation was monitored during the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

5.2 VIBRATING WIRE PIEZOMETERS

No new piezometers were installed over this period. Piezometer readings are taken on a weekly basis. The results from the monitoring are shown on Figures 5.1 to 5.6. Locations of the piezometers are presented on the attached Drawings.

Foundation Piezometers

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A2-PE2-01, A2-PE2-02 and F2-Pe2-01 increased slightly. No substantial changes were noted in the remaining foundation piezometers.

Fill Piezometers

The majority of the Main Embankment glacial till piezometers responded to construction of the overlying Stage 3A fills with increasing pore pressures. The piezometers are beginning to show a constant trend following the stop in construction and subsequent dissipation.

Two piezometers located within the Stage 1A glacial till fill have historically registered anomalous values, and warrant discussion.

Piezometer B2-PE2-03 reacted strongly to fill placement during initial construction. Pore pressures did not dissipate in the periods following fill placement, but remained constant. This is in direct contrast to other instruments located nearby. This trend changed in 1999, when B2-PE2-03 began to show dissipation at the completion of fill placement. This new trend has been repeated three times, with approximately the same dissipation rate after each stage of construction, with an increase in pore pressure between 50 and 100% of the increase in total stress. It appears that drainage paths were limited in the fill around this piezometer and pore pressures are still equilibrating.

Piezometer C2-PE2-05 is also located in the Stage 1A glacial till fill. This instrument historically showed little or no reaction to construction, but indicated a slow, steady increase in pore pressure over time. This suggests that pore pressures in the fill around C2-PE2-05 are reaching a steady state condition as the phreatic surface moves through the fill. It should be noted that the pressure head registered by this piezometer is approximately 10 m. This is similar to other piezometers located in comparable locations in the glacial till fill.

Drain Piezometers

All drain piezometers have remained static and at very low head indicating free draining conditions within the embankment drainage systems.

Tailings Piezometers

Water levels at the tailings piezometers continue to mimic the pond level, except at the Main Embankment, where the upstream toe drain has resulted in a depressed phreatic surface.

5.3 DRAIN FLOWS

Drains flows were recorded on June 8, 2001. The results from the foundation drains and upstream toe drain are shown on Figures 5.7 and 5.8.

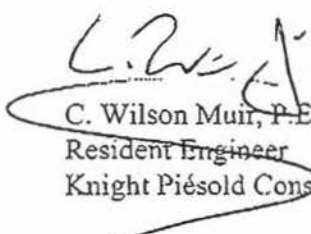


SECTION 5.0 - ONGOING ITEMS

The following items will be addressed during upcoming reporting periods:

- MPMC will continue to construct the Stage 3B Perimeter Embankment to El. 941.5 m.
- MPMC will select a Contractor to construct the embankments to El. 945 m.
- KP will continue to provide QA/QC and site supervision activities in accordance with the technical specifications.

Submitted by,



C. Wilson Muir, P.Eng.
Resident Engineer
Knight Piésold Consulting.

Distribution: Eric LeNeve, Tailings Coordinator, MPMC Site
Don Parsons, Mine Superintendent, MPMC Site
Chris Carr, Ministry of Energy and Mines, Victoria, B.C.
Ken Brouwer, KP Vancouver

TABLE 4.3

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

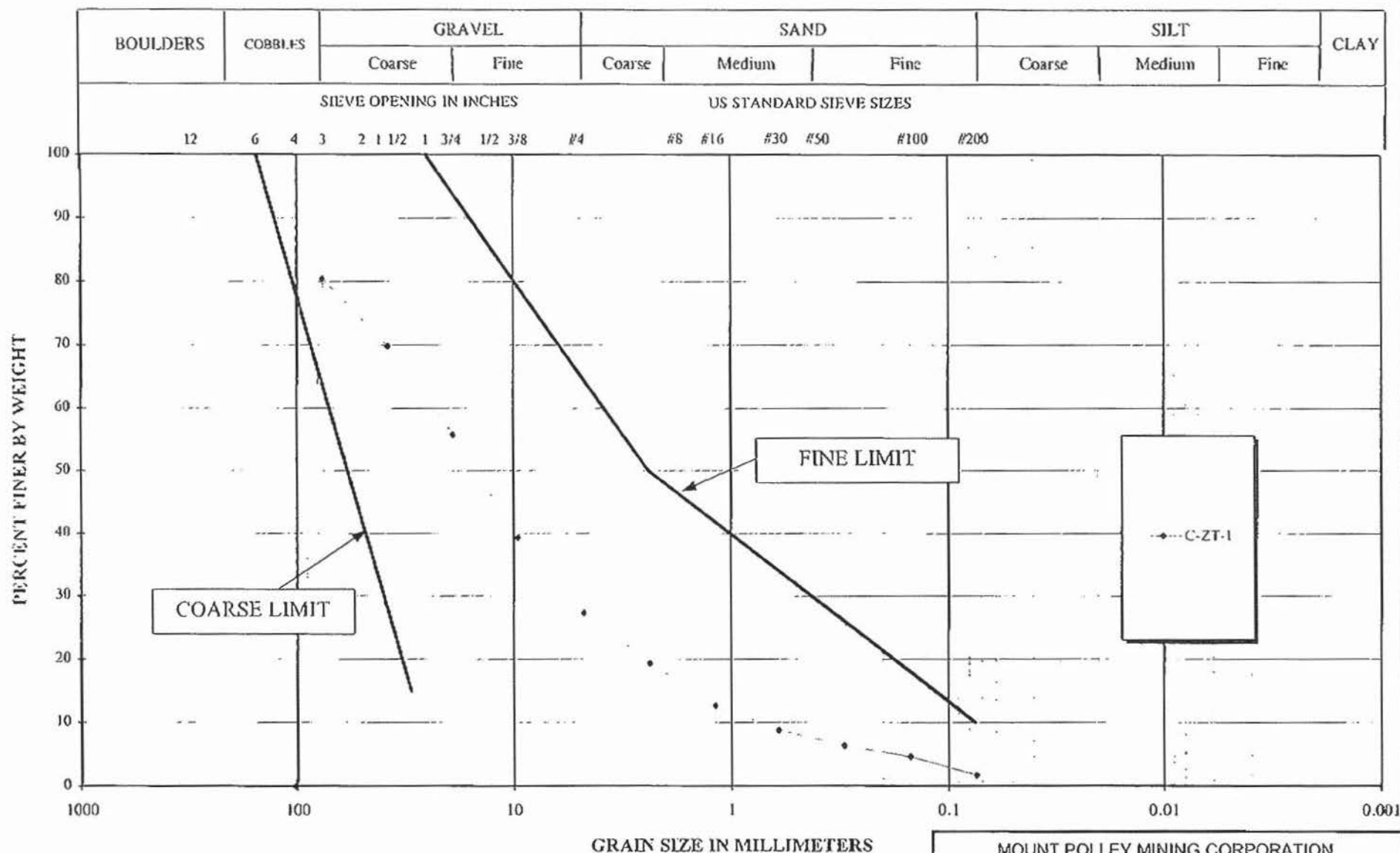
TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION

ZONE T CONTROL TEST SUMMARY SHEET

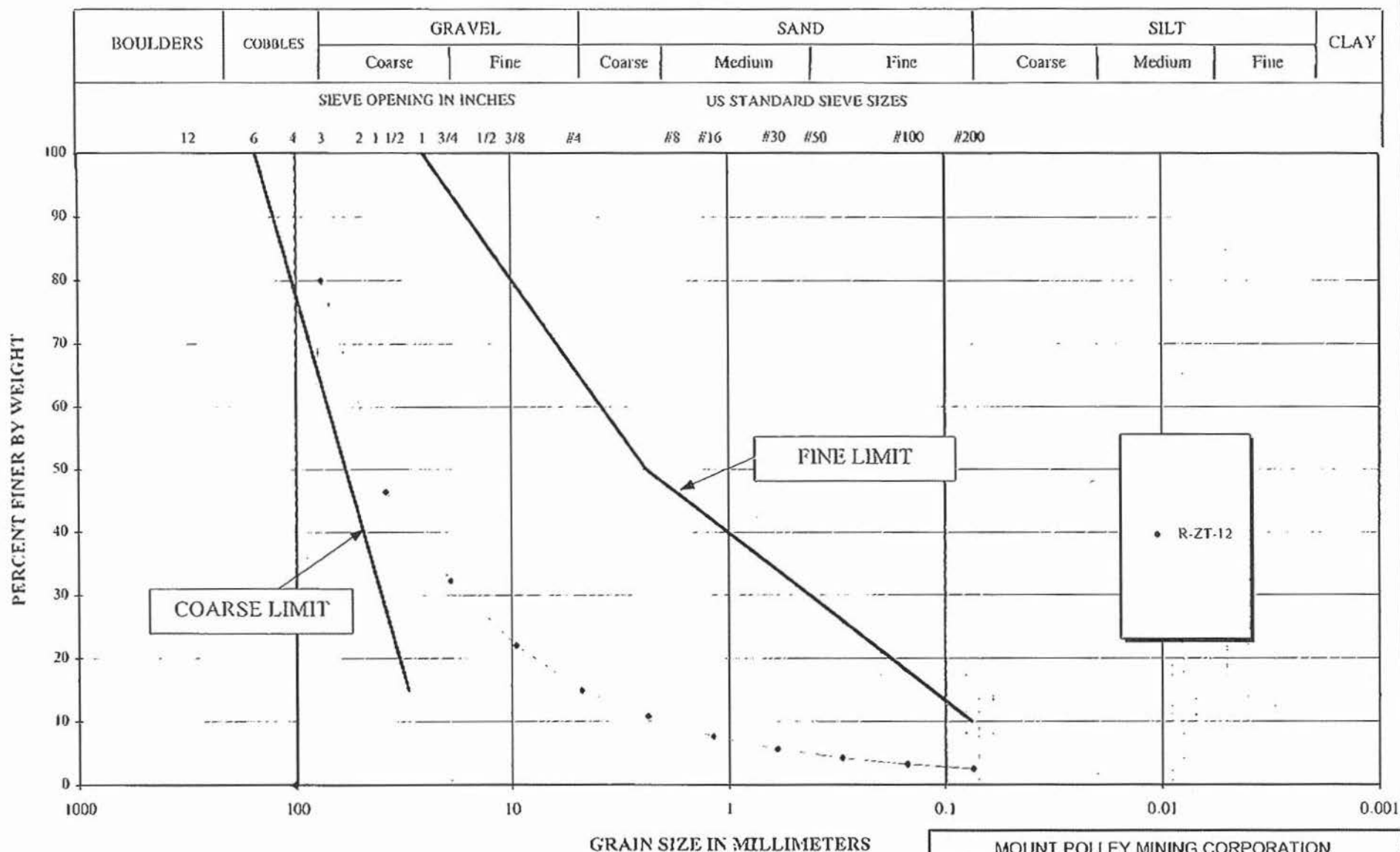
C:\Data\EngDocs\Geotechnical\Stage 3B Construction\Tailings\ZT\Zone T Data Sheet

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Knight Piesold CONSULTING		SHEET: 1 of 1																																																																																																																																																																																																																																																																																																																																																																																																																														
MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION		PERIOD: June 4 to June 10, 2001																																																																																																																																																																																																																																																																																																																																																																																																																														
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Limits						Field	LI	101.6	75.0	60.0	47.5	37.5	30.0	25.0	20.0	15.0	12.5	10.0	7.5		6.0	5.0	4.75	4.25	3.75	3.00	2.50	2.00	1.75	1.50	1.25	1.00	0.75	0.60	0.50	0.425	0.375	0.300	0.250	0.200	0.150	0.125	0.100	0.075	0.060	0.050	0.0425	0.0375	0.0300	0.0250	0.0200	0.0150	0.0125	0.0100	0.0075	0.0060	0.0050	0.00425	0.00375	0.00300	0.00250	0.00200	0.00150	0.00125	0.00100	0.00075	0.00060	0.00050	0.000425	0.000375	0.000300	0.000250	0.000200	0.000150	0.000125	0.000100	0.000075	0.000060	0.000050	0.0000425	0.0000375	0.0000300	0.0000250	0.0000200	0.0000150	0.0000125	0.0000100	0.0000075	0.0000060	0.0000050	0.00000425	0.00000375	0.00000300	0.00000250	0.00000200	0.00000150	0.00000125	0.00000100	0.00000075	0.00000060	0.00000050	0.000000425	0.000000375	0.000000300	0.000000250	0.000000200	0.000000150	0.000000125	0.000000100	0.000000075	0.000000060	0.000000050	0.0000000425	0.0000000375	0.0000000300	0.0000000250	0.0000000200	0.0000000150	0.0000000125	0.0000000100	0.0000000075	0.0000000060	0.0000000050	0.00000000425	0.00000000375	0.00000000300	0.00000000250	0.00000000200	0.00000000150	0.00000000125	0.00000000100	0.00000000075	0.00000000060	0.00000000050	0.000000000425	0.000000000375	0.000000000300	0.000000000250	0.000000000200	0.000000000150	0.000000000125	0.000000000100	0.000000000075	0.000000000060	0.000000000050	0.0000000000425	0.0000000000375	0.0000000000300	0.0000000000250	0.0000000000200	0.0000000000150	0.0000000000125	0.0000000000100	0.0000000000075	0.0000000000060	0.0000000000050	0.00000000000425	0.00000000000375	0.00000000000300	0.00000000000250	0.00000000000200	0.00000000000150	0.00000000000125	0.00000000000100	0.00000000000075	0.00000000000060	0.00000000000050	0.000000000000425	0.000000000000375	0.000000000000300	0.000000000000250	0.000000000000200	0.000000000000150	0.000000000000125	0.000000000000100	0.000000000000075	0.000000000000060	0.000000000000050	0.0000000000000425	0.0000000000000375	0.0000000000000300	0.0000000000000250	0.0000000000000200	0.0000000000000150	0.0000000000000125	0.0000000000000100	0.0000000000000075	0.0000000000000060	0.0000000000000050	0.00000000000000425	0.00000000000000375	0.00000000000000300	0.00000000000000250	0.00000000000000200	0.00000000000000150	0.00000000000000125	0.00000000000000100	0.00000000000000075	0.00000000000000060	0.00000000000000050	0.000000000000000425	0.000000000000000375	0.000000000000000300	0.000000000000000250	0.000000000000000200	0.000000000000000150	0.000000000000000125	0.000000000000000100	0.000000000000000075	0.000000000000000060	0.000000000000000050	0.0000000000000000425	0.0000000000000000375	0.0000000000000000300	0.0000000000000000250	0.0000000000000000200	0.0000000000000000150	0.0000000000000000125	0.0000000000000000100	0.0000000000000000075	0.0000000000000000060	0.0000000000000000050	0.00000000000000000425	0.00000000000000000375	0.00000000000000000300	0.00000000000000000250	0.00000000000000000200	0.00000000000000000150	0.00000000000000000125	0.00000000000000000100	0.00000000000000000075	0.00000000000000000060	0.00000000000000000050	0.000000000000000000425	0.000000000000000000375	0.000000000000000000300	0.000000000000000000250	0.000000000000000000200	0.000000000000000000150	0.000000000000000000125	0.000000000000000000100	0.000000000000000000075	0.000000000000000000060	0.000000000000000000050	0.0000000000000000000425	0.0000000000000000000375	0.0000000000000000000300	0.0000000000000000000250	0.0000000000000000000200	0.0000000000000000000150	0.0000000000000000000125	0.0000000000000000000100	0.0000000000000000000075	0.0000000000000000000060	0.0000000000000000000050	0.00000000000000000000425	0.00000000000000000000375	0.00000000000000000000300	0.00000000000000000000250	0.00000000000000000000200	0.00000000000000000000150	0.00000000000000000000125	0.00000000000000000000100	0.00000000000000000000075	0.00000000000000000000060	0.00000000000000000000050	0.000000000000000000000425	0.000000000000000000000375	0.000000000000000000000300	0.000000000000000000000250	0.000000000000000000000200	0.000000000000000000000150	0.000000000000000000000125	0.000000000000000000000100	0.000000000000000000000075	0.000000000000000000000060	0.000000000000000000000050	0.0000000000000000000000425	0.0000000000000000000000375	0.0000000000000000000000300	0.0000000000000000000000250	0.0000000000000000000000200	0.0000000000000000000000150	0.0000000000000000000000125	0.0000000000000000000000100	0.0000000000000000000000075	0.0000000000000000000000060	0.0000000000000000000000050	0.00000000000000000000000425	0.00000000000000000000000375	0.00000000000000000000000300	0.00000000000000000000000250	0.00000000000000000000000200	0.00000000000000000000000150	0.00000000000000000000000125	0.00000000000000000000000100	0.00000000000000000000000075	0.00000000000000000000000060	0.00000000000000000000000050	0.000000000000000000000000425	0.000000000000000000000000375	0.000000000000000000000000300	0.000000000000000000000000250	0.000000000000000000000000200	0.000000000000000000000000150	0.000000000000000000000000125	0.000000000000000000000000100	0.000000000000000000000000075	0.000000000000000000000000060	0.000000000000000000000000050	0.0000000000000000000000000425	0.0000000000000000000000000375	0.0000000000000000000000000300	0.0000000000000000000000000250	0.0000000000000000000000000200	0.0000000000000000000000000150	0.0000000000000000000000000125	0.0000000000000000000000000100	0.0000000000000000000000000075	0.0000000000000000000000000060	0.0000000000000000000000000050	0.00000000000000000000000000425	0.00000000000000000000000000375	0.00000000000000000000000000300	0.00000000000000000000000000250	0.00000000000000000000000000200	0.00000000000000000000000000150	0.00000000000000000000000000125	0.00000000000000000000000000100	0.00000000000000000000000000075	0.00000000000000000000000000060	0.00000000000000000000000000050	0.000000000000000000000000000425	0.000000000000000000000000000375	0.000000000000000000000000000300	0.000000000000000000000000000250	0.000000000000000000000000000200	0.000000000000000000000000000150	0.000000000000000000000000000125	0.000000000000000000000000000100	0.000000000000000000000000000075	0.000000000000000000000000000060	0.000000000000000000000000000050	0.0000000000000000000000000000425	0.0000000000000000000000000000375	0.0000000000000000000000000000300	0.0000000000000000000000000000250	0.0000000000000000000000000000200	0.0000000000000000000000000000150	0.0000000000000000000000000000125	0.0000000000000000000000000000100	0.0000000000000000000000000000075	0.0000000000000000000000000000060	0.0000000000000000000000000000050	0.00000000000000000000000000000425	0.00000000000000000000000000000375	0.00000000000000000000000000000300	0.00000000000000000000000000000250	0.00000000000000000000000000000200	0.00000000000000000000000000000150	0.00000000000000000000000000000125	0.00000000000000000000000000000100	0.00000000000000000000000000000075	0.00000000000000000000000000000060	0.00000000000000000000000000000050	0.000000000000000000000000000000425	0.000000000000000000000000000000375	0.000000000000000000000000000000300	0.000000000000000000000000000000250	0.000000000000000000000000000000200	0.000000000000000000000000000000150	0.000000000000000000000000000000125	0.000000000000000000000000000000100	0.000000000000000000000000000000075	0.000000000000000000000000000000060	0.000000000000000000000000000000050	0.0000000000000000000000000000000425	0.0000000000000000000000000000000375	0.0000000000000000000000000000000300	0.0000000000000000000000000000000250	0.0000000000000000000000000000000200	0.0000000000000000000000000000000150	0.0000000000000000000000000000000125	0.0000000000000000000000000000000100	0.0000000000000000000000000000000075	0.0000000000000000000000000000000060	0.0000000000000000000000000000000050	0.00000000000000000000000000000000425	0.00000000000000000000000000000000375	0.00000000000000000000000000000000300	0.00000000000000000000000000000000250	0.00000000000000000000000000000000200	0.00000000000000000000000000000000150	0.00000000000000000000000000000000125	0.00000000000000000000000000000000100	0.00000000000000000000000000000000075	0.00000000000000000000000000000000060	0.00000000000000000000000000000000050	0.000000000000000000000000000000000425	0.000000000000000000000000000000000375	0.000000000000000000000000000000000300	0.000000000000000000000000000000000250	0.000000000000000000000000000000000200	0.000000000000000000000000000000000150	0.000000000000000000000000000000000125	0.000000000000000000000000000000000100	0.000000000000000000000000000000000075	0.000000000000000000000000000000000060	0.000000000000000000000000000000000050	0.0000000000000000000000000000000000425	0.0000000000000000000000000000000000375	0.0000



MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY - STAGE 3B		
CONSTRUCTION - ZONE T CONTROL SAMPLES		
GRADATION CURVES		
Knight Piésold		PROJECT NO. 11162/14
CONSULTING		REF NO. REV.
FIGURE 4.3		



MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY - STAGE 3B		
CONSTRUCTION - ZONE T RECORD SAMPLES		
GRADATION CURVES		
Knight Piésold CONSULTING	PROJECT NO.	REF. NO.
	11162/14	
REV		
FIGURE 4.4		

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE A PIEZOMETERS

KNIGHT PIESOLD
CONSULTING

- | | | | |
|------------------|------------------|-------------|-------------|
| - - - Pond Level | — Fill Elevation | * A0-PE2-01 | + A0-PE2-02 |
| - - - A1-PE1-01 | — A1-PE1-02 | ◇ A1-PE1-03 | ▲ A2-PE1-01 |
| — A2-PE2-01 | — A2-PE2-02 | ◆ A2-PE2-03 | * A2-PE2-05 |
| — A2-PE2-06 | — A2-PE2-07 | + A2-PE2-08 | + A1-PE1-04 |
| — A2-PE1-02 | - * A0-PE1-01 | ◆ A2-PE1-03 | |

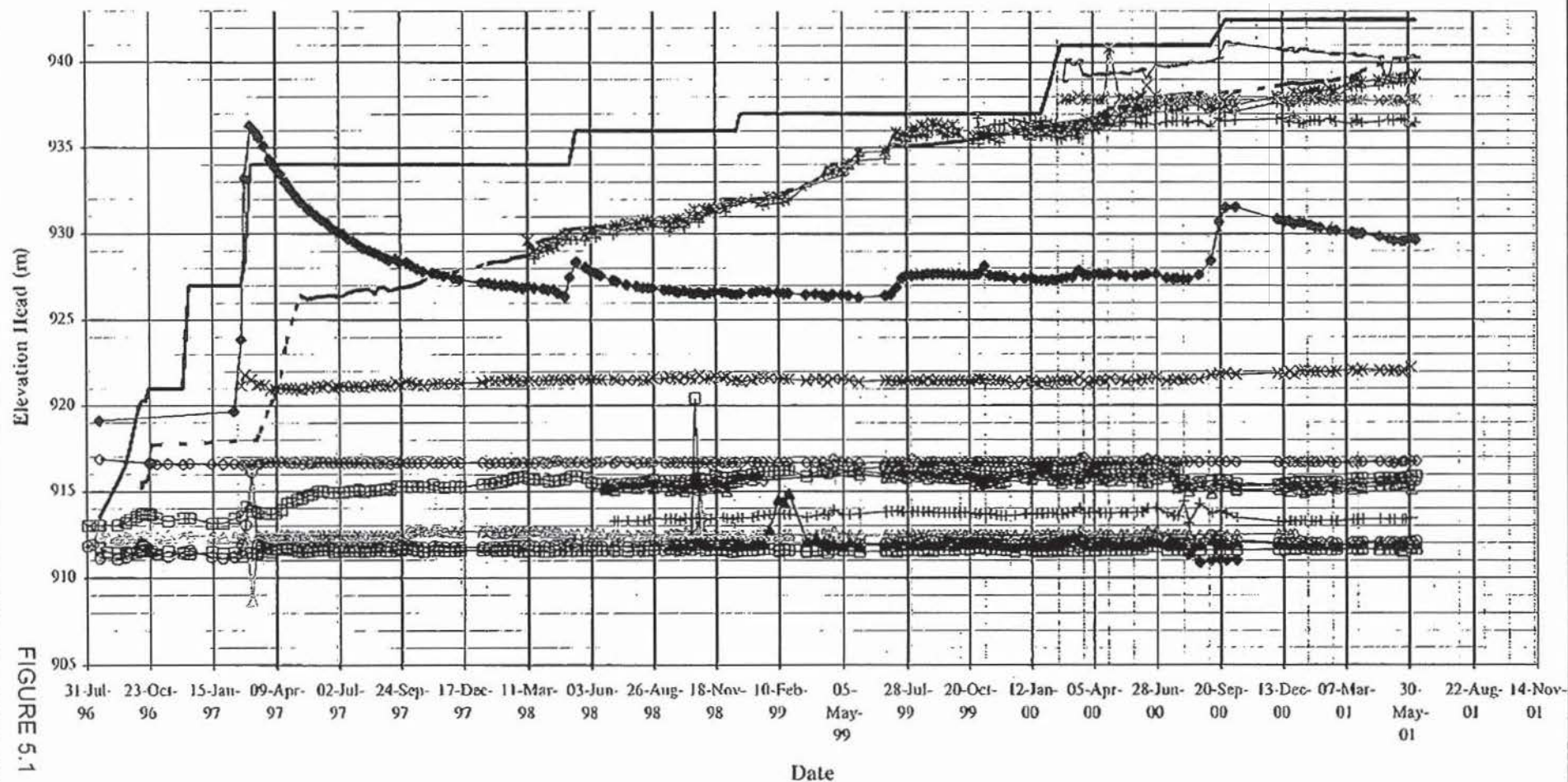
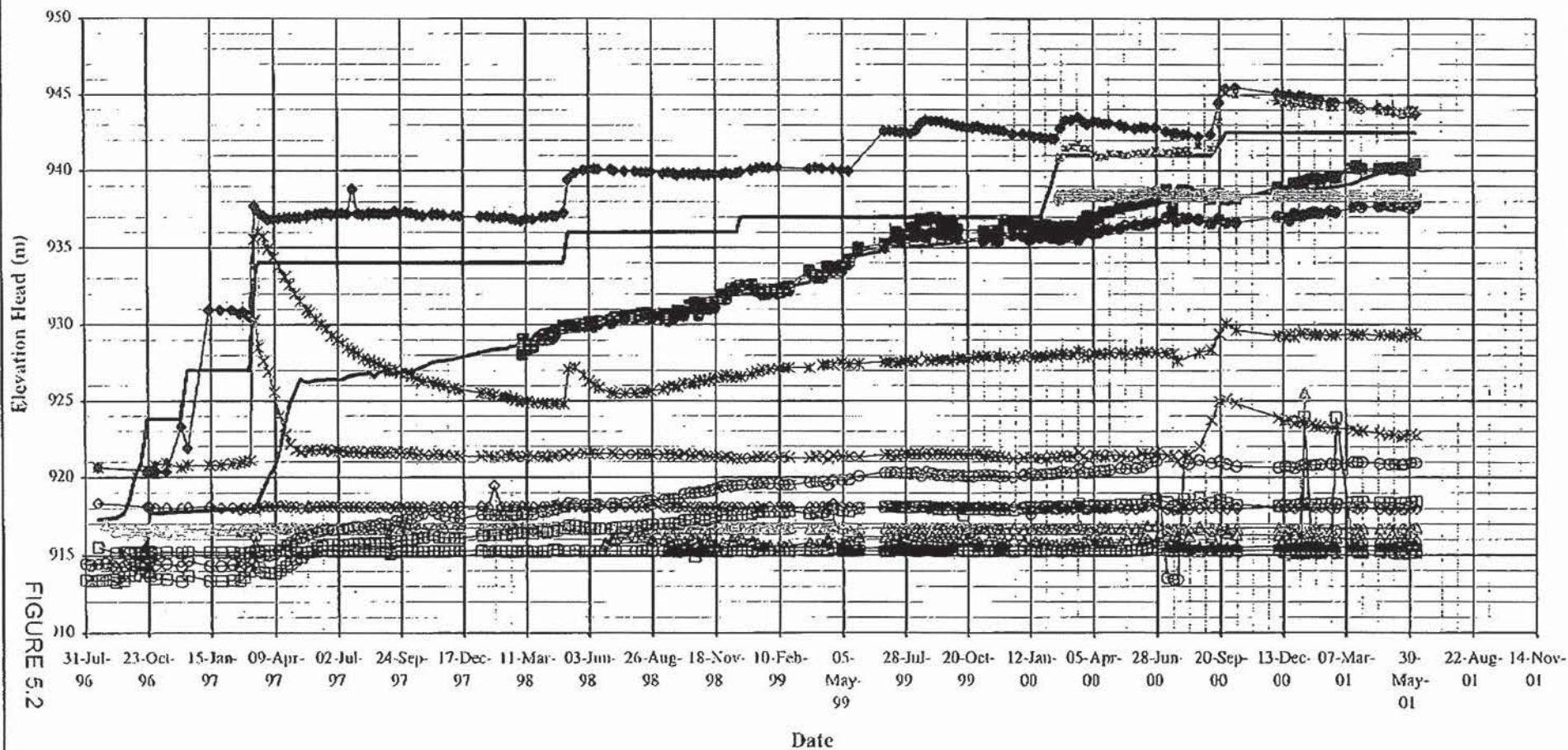


FIGURE 5.1

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE B PIEZOMETERS

— Pond Level	— Fill Elevation	■ B0-PE2-01	● BO-PE2-02	△ B1-PE2-01
□ B1-PE1-01	◇ B1-PE1-03	▲ B2-PE1-01	□ B2-PE2-01	○ B2-PE2-02
◆ B2-PE2-03	* B2-PE2-04	× B2-PE2-05	△ B2-PE2-06	○ B0-PE1-01
× B2-PE1-02	• B2-PE1-03			



MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE C PIEZOMETERS

- | | | |
|--------------|------------------|-------------|
| — Pond Level | — Fill Elevation | — C0-PE2-01 |
| — C0-PE2-02 | — C1-PE1-01 | — C1-PE1-02 |
| — C1-PE1-04 | — C2-PE1-01 | — C2-PE2-01 |
| — C2-PE2-02 | — C2-PE2-03 | — C2-PE2-05 |
| — C2-PE2-06 | — C2-PE2-07 | — C2-PE2-08 |
| — C0-PE1-01 | — C2-PE1-02 | — C2-PE1-03 |

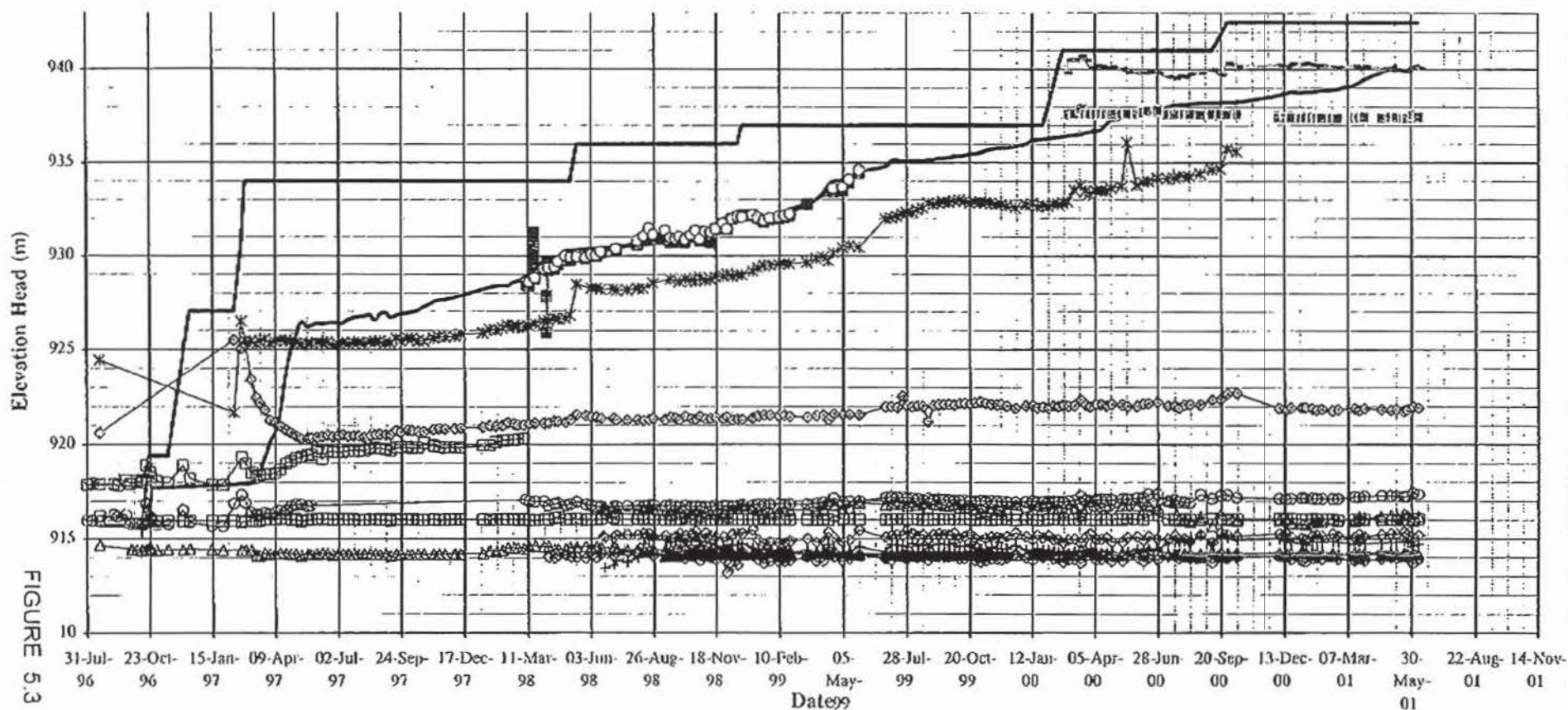


FIGURE 5.3

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE D PIEZOMETERS

— Pond Level — Fill Elevation □ D1-PE1-02
 ▲ D2-PE1-01 ● D2-PE2-01 □ D2-PE2-02

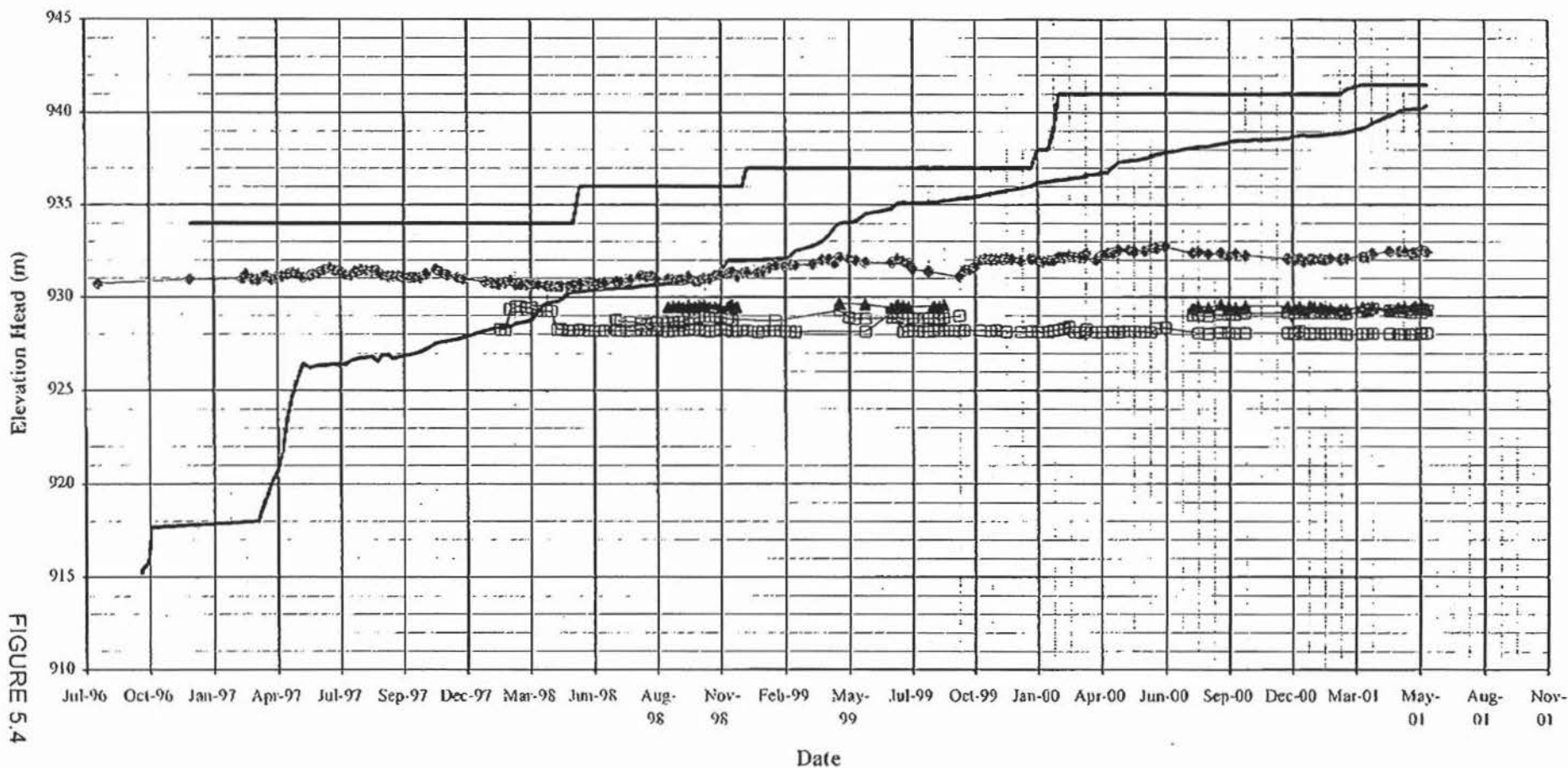


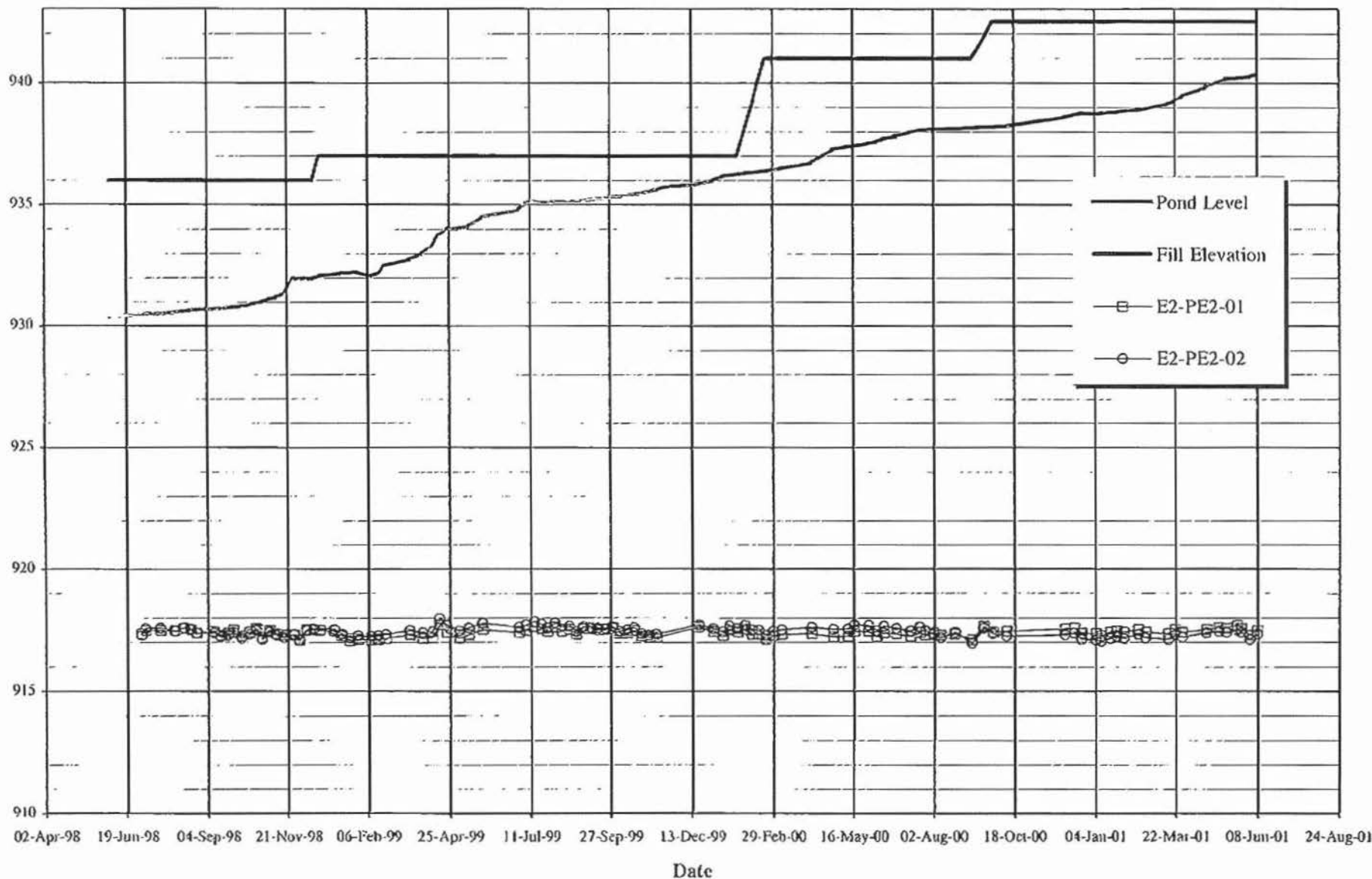
FIGURE 5.4

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE E PIEZOMETERS

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Elevation Head (m)

FIGURE 5.5



MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE F PIEZOMETERS

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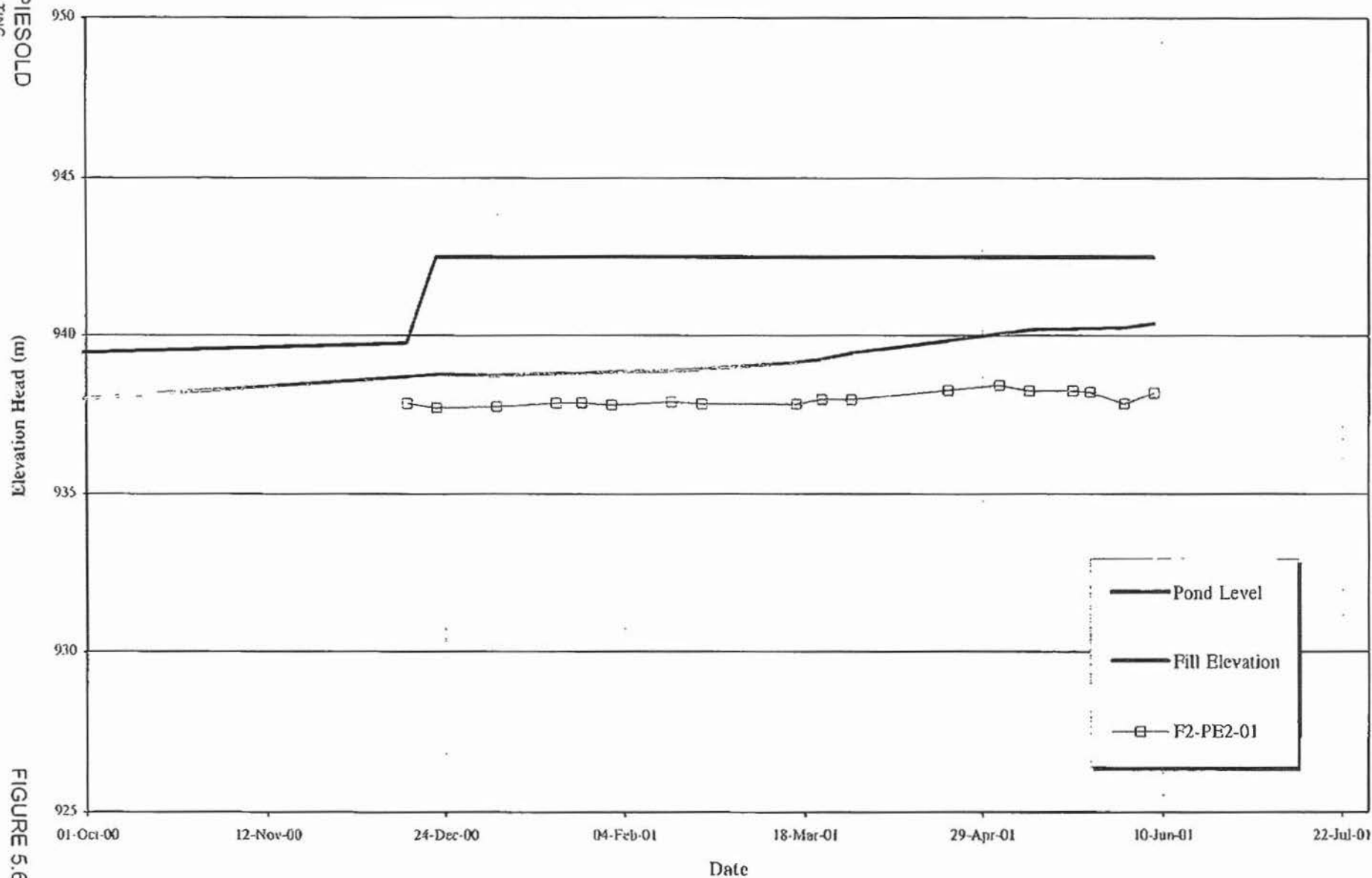
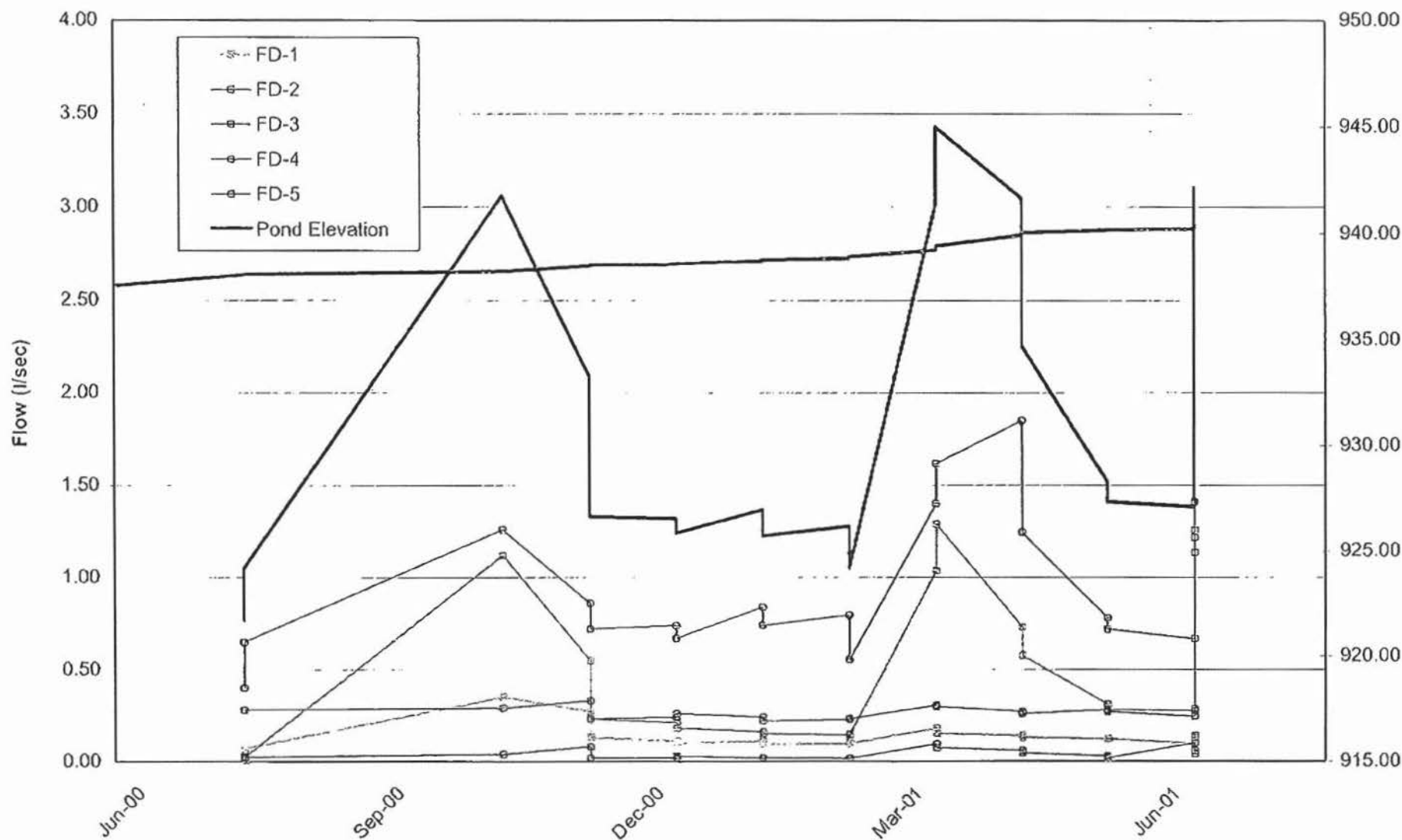
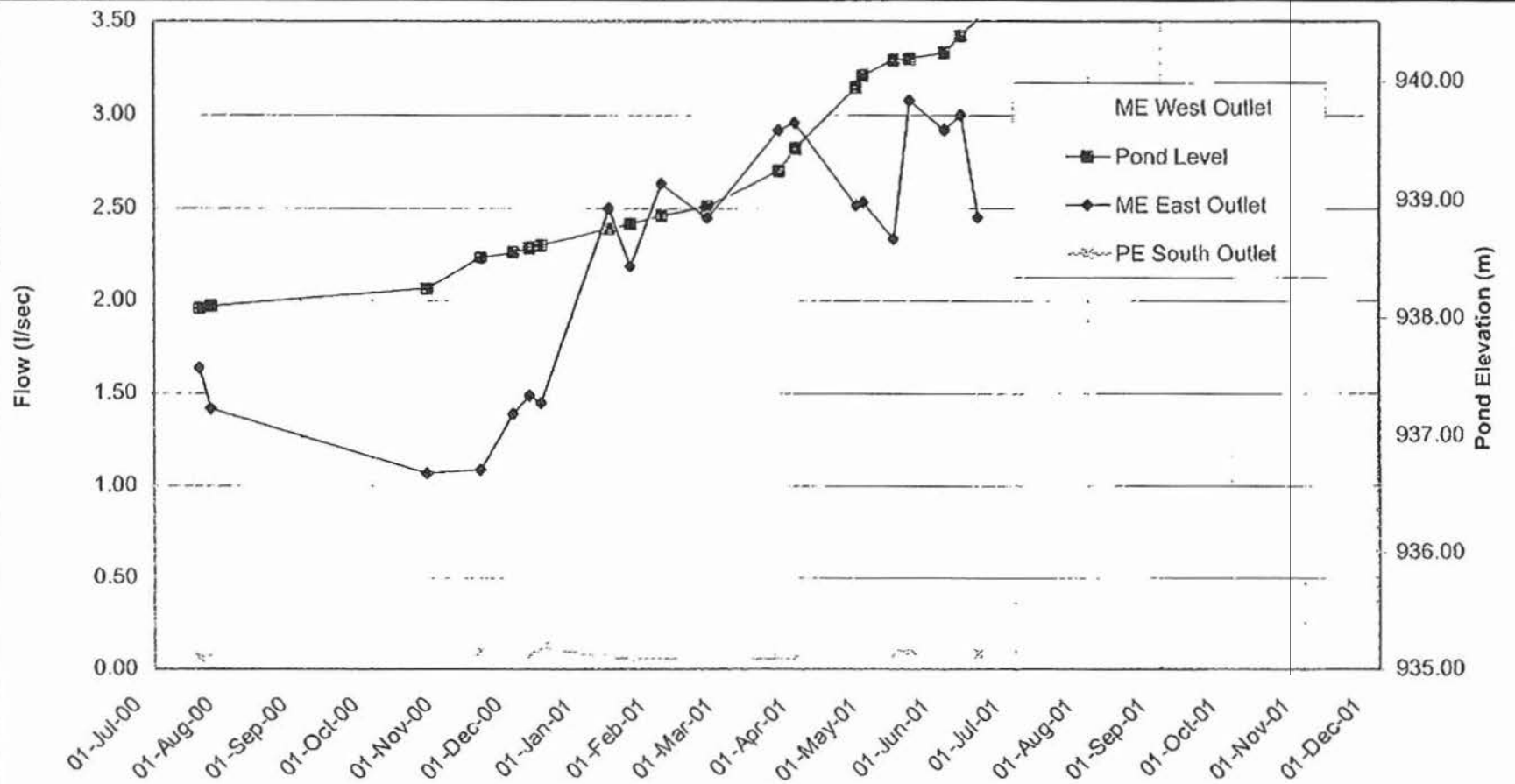


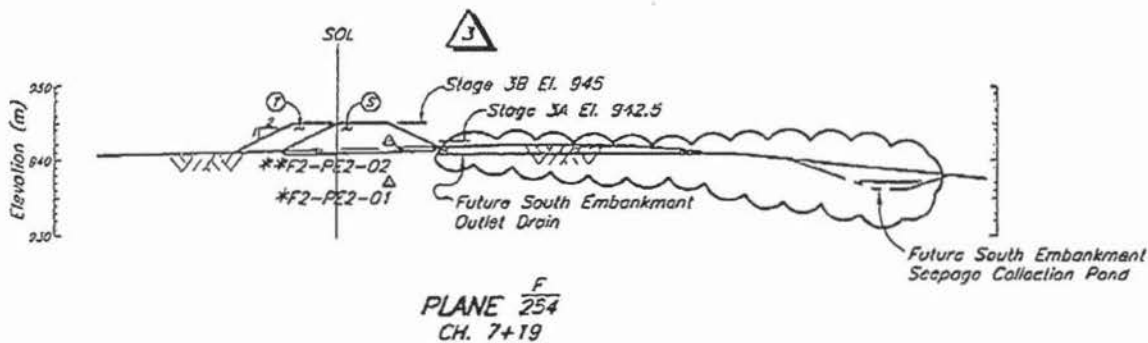
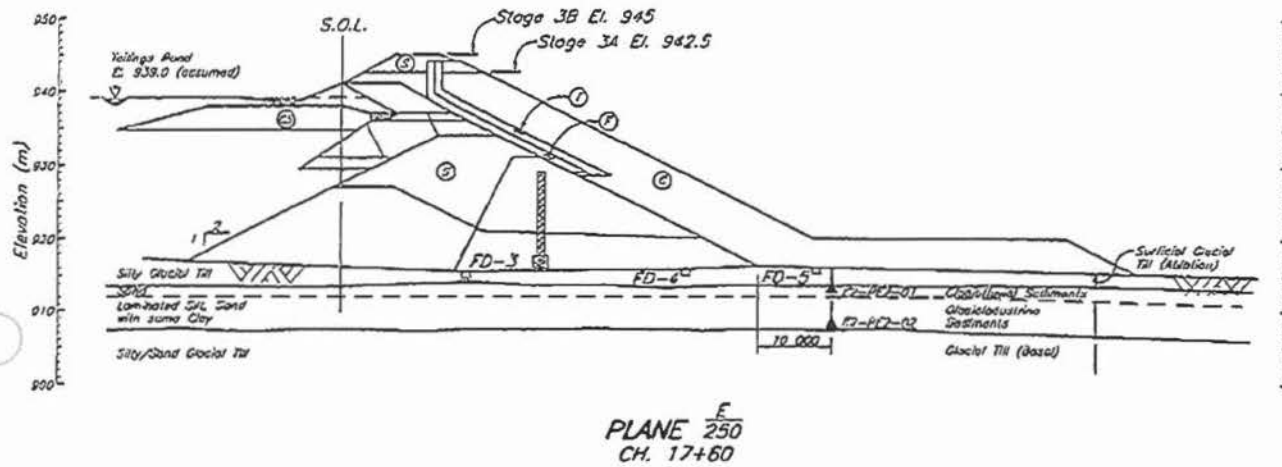
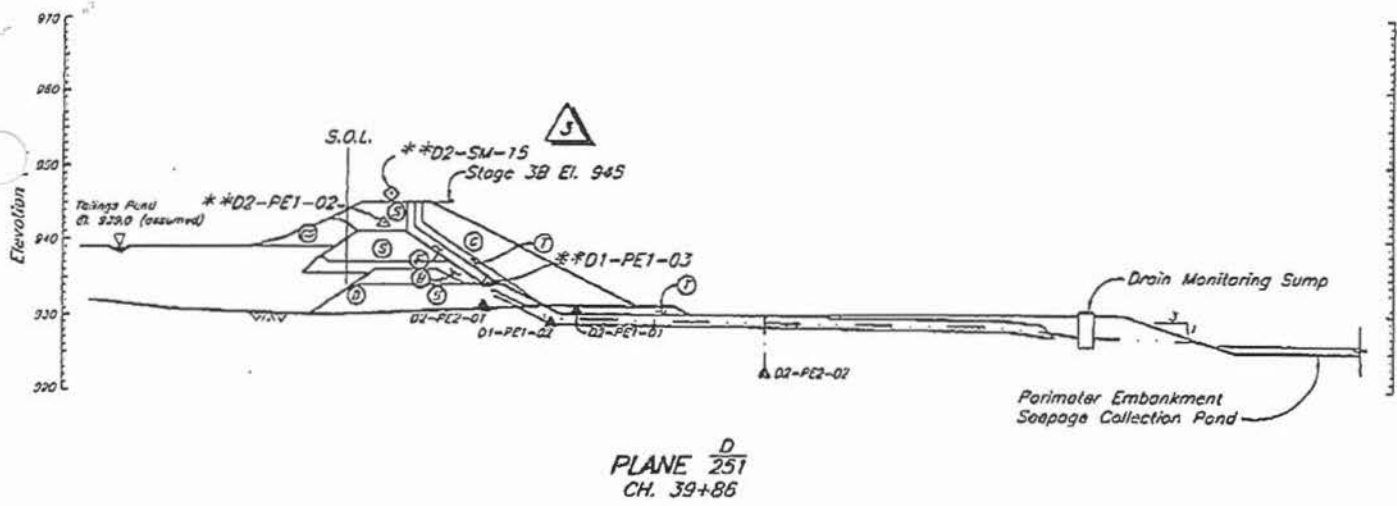
FIGURE 5.6



MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
TAILINGS STORAGE FACILITY			
MAIN EMBANKMENT			
FOUNDATION DRAIN FLOWS			
Knight Piésold CONSULTING	PROJECT NO.	REF NO.	REV
	11162/13		
FIGURE 5.7			



MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
TAILINGS STORAGE FACILITY UPSTREAM TOE DRAIN FLOWS			
Knight Piésold CONSULTING	PROJECT NO.	REF. NO.	REV
	11162/13		
FIGURE 5.8			



STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION SUMMARY OF INSTALLATION & TYPICAL DETAILS
STAGE 3 TAILINGS EMBANKMENT - SOUTH EMBANKMENT - INSTRUMENTATION PLAN
STAGE 3 PERIMETER EMBANKMENT - INSTRUMENTATION PLAN
STAGE 3 TAILINGS EMBANKMENT - MAIN EMBANKMENT - INSTRUMENTATION PLAN

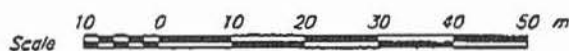
DESCRIPTION	REV.	DATE
REFERENCE DRAWINGS		

DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED	REV.	DATE
REVISIONS						

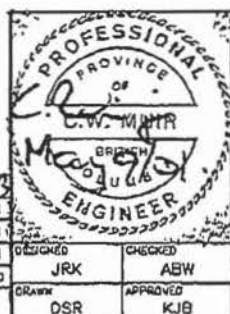
3	08MAY'01	ISSUED FOR
2	25JAN'01	STAGE 3B
1	20OCT'00	PERIMETER
0	2JUN'00	ISSUED FOR



1. See Drg. No. 11162-13-258 for Summary of Instrumentation Installations, Typical Details, General Notes and Legend.
2. Instrumentation with one asterisk indicates placement during Stage 3A construction. Instrumentation with 2 asterisks indicate placement during Stage 3B construction.



STAGE 3B TENDER	OWN	OSR	JFK	EB
IS - CREST ELEVATION 945	JRK	AW	JMTW	KJB
TER EMBANKMENT SECTIONS ADDED	JRK	NSD	JMTW	KJB
FOR CONSTRUCTION	JRK	TAM	ASW	KJB
DESCRIPTION	DESIGN	DRAWN	CHECK	APP'D
REVISIONS				



TAILINGS STORAGE FACILITY
STAGE 3 TAILINGS EMBANKMENT
INSTRUMENTATION
SECTIONS - SHEET 2 OF 2

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SCALE	AS SHOWN	REVISION
		3
DRAWING NO.		
11162-13-259		

File

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Mount Polley Site Office Fax: (250) 790-2268
www.knightpiesold.com

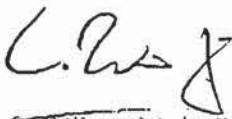
DATE: June 20, 2001 FILE NO.: 11162/14.F01/.F02/
TIME: REF NO.: /F04/.F05/.F08
01-12
OPERATOR: PAGES: 1 of 20
SENDER: Wilson Muir

TO: Ministry of Energy and Mines, Victoria B.C. FAX: 250-952-0481
ATTN: Chris Carr
CC: Ken Brouwer, KP Vancouver
Don Parsons / Eric LeNeve, MPMC Site
SUBJECT: Progress Report No. 11

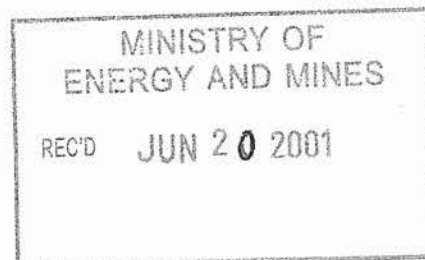
Dear Mr. Carr,

Please find enclosed a copy of Progress Report No. 11 from June 11 to June 17, 2001. If you have any questions, please do not hesitate to contact me on site or Ken Brouwer in our Vancouver office.

Regards,



C. Wilson Muir, P.Eng.
Resident Engineer
Knight Piésold Consulting



The content of this communication is confidential. If you are not the intended recipient, please notify us immediately. Unauthorized use or disclosure of this communication or its content is unlawful.

Knight Piésold
CONSULTING**MOUNT POLLEY MINING CORPORATION**
MOUNT POLLEY MINE**TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION**
PROGRESS REPORT NO. 11 - JUNE 11 TO JUNE 17, 2001**SECTION 1.0 - GENERAL**

Mount Polley Mining Corporation (MPMC) continued Stage 3B construction activities. Knight Piésold Ltd. (KP) carried out QA/QC activities during the reporting period.

The scope of work includes:

1. Placement of Zones F, T and C to approximate El. 941.5 m on the Perimeter Embankment (Ch. 32+00 to 44+50). MPMC is carrying out this work with the exception of filter sand hauling between the millsite and the TSF, which is being completed by sub-contractors.
2. Placement of Zones CBL, S, F, T and C on the Main, Perimeter and South Embankments to El. 945 m. This work will be carried out under contract. A Contractor for this work has yet to be determined.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- Wilson Muir, Resident Engineer.

The following MPMC personnel were on site during the reporting period:

- Don Parsons Mine Superintendent
- Eric LeNeve Tailings Coordinator
- Charlie O'Hara General Foreman
- Don Jameson Site Foreman
- Ron Gale Site Foreman

1.2 CONTRACT DEVELOPMENTS

153 Mile Contracting won the contract for the filter sand haul between the millsite and the TSF. 153 Mile Contracting is responsible for loading, transporting and dumping material only. MPMC is responsible for crushing, placement and compaction. As mentioned above, a Contractor will be chosen to complete the Stage 3B embankment raise from approximate El. 941.5 m to 945 m.

MPMC has completed a preliminary construction schedule for the project. The target is to complete the required work by September 30, 2001. The schedule calls for MPMC to complete

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their portion of work by July 15, 2001. The Contractor is to begin work on July 15 and to finish on September 30, 2001. This schedule is subject to modification; however, the schedule will be ultimately governed by freeboard concerns at the TSF.

1.3 DESIGN DEVELOPMENTS

No new design developments have occurred over the reporting period.

1.3 WEATHER

Conditions were unsettled during the reporting period. This included periods of cloud, rain and sunshine. Maximum daytime highs reached about +20 °C and nightly lows sank to as low as +2 °C.

1.4 SAFETY

No safety incidents were reported over the reporting period.

SECTION 2.0 - TAILINGS FACILITY OPERATION AND MAINTENANCE

Tailings were spigotted along the Main Embankment crest during the reporting period at approximate Chainage 19+00 and 17+00. The 200 m extension of the pipeline was completed on June 16. Tailings were present upstream of the Main Embankment at all areas on June 14. It is anticipated that tailings will form a substantial beach upstream of the ridge between the Main and South Embankments by discharging at Ch. 17+00.

The Tailings Pond remains a significant distance from the Perimeter Embankment.

SECTION 3.0 - CONSTRUCTION ACTIVITIES

3.1 EQUIPMENT

MPMC used the following equipment over the reporting period:

- Excavators: 1 Hitachi EX 270
- Haul Trucks: 2 Caterpillar 777 85T
- Loaders: 1 Caterpillar 992
- Dozers: 1 Caterpillar D7G, 1 Caterpillar D8R
- Compactors: 1 Caterpillar CS 563 10T vibratory smooth drum
- Graders: 1 Caterpillar 14G, 1 Caterpillar 16G
- Drills: 1 Svedala STK
- Service and fuel trucks
- 153 Mile Contracting: 6 highway dump trucks and Caterpillar 980B and 966 loaders

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MPMC carried out the following activities during the reporting period:

- Removal of saturated fill from the downstream face of the Perimeter Embankment, Ch. 43+00 to 40+50, El. 937 to 940 m.
- Placement of Zone F fill on the Perimeter Embankment: Ch. 43+25 to 45+50, El. 936 to 941.5 m and Ch. 34+00 to 35+50, El. 934 to 937 m.
- Placement of Zone C fill on the Perimeter Embankment, Ch. 40+00 to 43+25, El. 932 to 934 m and Ch. 35+75 to 38+50, El. 932.5 to 934 m.
- Development of the Rock Borrow for Zones T and C materials.

Zone C was supplied from the Rock Borrow, while Zone F was delivered from the crushed stockpile at the millsite. Zone C was placed in 1 metre thick, horizontal lifts to the downstream toe of the Stage 3B Perimeter Embankment. Zone F was placed up the slope on top of the existing Zone S.

SECTION 4.0 - KNIGHT PIÉSOLD ACTIVITIES

4.1 GENERAL

KP activities over the reporting period included the following:

- Monitoring and inspection of saturated material removal and fill placement of Zones C and F.
- Submission of daily summaries of QA/QC and construction activities to MPMC.
- Control and Record sampling and testing of embankment fill materials.
- Ongoing discussions and correspondence with MPMC and KP Vancouver with regard to current and future design.
- Preparation of progress reports.

4.2 Laboratory Testing

The following samples were processed during the reporting period:

- C-ZF-34, 35 and 36
- R-ZF-33

All three control samples carried out on Zone F failed the grain size specification on the #'s 8, 16 and 30 sieves. The curves were sent to the KP Vancouver office for filter relationship analyses. The results of the analyses show that the latest Zone F samples have a filter relationship with the Zone S that is present in the Perimeter Embankment but do not have a filter relationship with the cycloned sand. As a result, KP gave permission to MPMC to use this material against the Zone S.

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The subsequent record test failed the grain size specification on the # 16 sieve only. Due to the above discussion, this material was allowed to remain in place.

All tests carried out during the reporting period are presented in the attached tables and figures.

SECTION 5.0 - MONITORING**5.1 GENERAL**

Instrumentation was monitored during the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

5.2 VIBRATING WIRE PIEZOMETERS

No new piezometers were installed over this period. Piezometer readings are taken on a weekly basis. The results from the monitoring are shown on Figures 5.1 to 5.6. Locations of the piezometers are presented on the attached Drawings.

Foundation Piezometers

No substantial changes were noted in the remaining foundation piezometers.

Fill Piezometers

The majority of the Main Embankment glacial till piezometers responded to construction of the overlying Stage 3A fills with increasing pore pressures. These piezometers are now fully dissipated, as a constant, horizontal trend has been showing for some time now.

Two piezometers located within the Stage 1A glacial till fill have historically registered anomalous values, and warrant discussion.

Piezometer B2-PE2-03 reacted strongly to fill placement during initial construction. Pore pressures did not dissipate in the periods following fill placement, but remained constant. This is in direct contrast to other instruments located nearby. This trend changed in 1999, when B2-PE2-03 began to show dissipation at the completion of fill placement. This new trend has been repeated three times, with approximately the same dissipation rate after each stage of construction, with an increase in pore pressure between 50 and 100% of the increase in total stress. It appears that drainage paths were limited in the fill around this piezometer and pore pressures are still equilibrating.

Piezometer C2-PE2-05 is also located in the Stage 1A glacial till fill. This instrument historically showed little or no reaction to construction, but indicated a slow, steady increase in pore pressure over time. This suggests that pore pressures in the fill around C2-PE2-05 are reaching a steady state condition as the phreatic surface moves through the fill. It should be

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noted that the pressure head registered by this piezometer is approximately 10 m. This is similar to other piezometers located in comparable locations in the glacial till fill.

Drain Piezometers

All drain piezometers have remained static and at very low head indicating free draining conditions within the embankment drainage systems.

Tailings Piezometers

Water levels at the tailings piezometers continue to mimic the pond level, except at the Main Embankment, where the upstream toe drain has resulted in a depressed phreatic surface.

5.3 DRAIN FLOWS

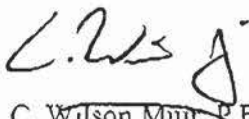
Drains flows were recorded on June 15, 2001. The results from the foundation drains and upstream toe drain are shown on Figures 5.7 and 5.8.

SECTION 5.0 - ONGOING ITEMS

The following items will be addressed during upcoming reporting periods:

- MPMC will continue to construct the Stage 3B Perimeter Embankment to El. 941.5 m.
- MPMC will select a Contractor to construct the embankments to El. 945 m.
- KP will continue to provide QA/QC and site supervision activities in accordance with the technical specifications.

Submitted by,



C. Wilson Mun, P.Eng.
Resident Engineer
Knight Piésold Consulting.

Distribution: Eric LeNeve, Tailings Coordinator, MPMC Site
Don Parsons, Mine Superintendent, MPMC Site
Chris Carr, Ministry of Energy and Mines, Victoria, B.C.
Ken Brouwer, KP Vancouver

TABLE 4.1

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION

ZONE F CONTROL TEST SUMMARY SHEET

D:\FNG DATA\EngDocs\Geotechnical\Kpnt\Stage 3B Construction\Drawings\01\C-ZF-summ.xls\Draw Sheet

4/1/01

Knight Piésold CONSULTING				SHEET: 1 of 1																						
PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION				PERIOD: June 11 to June 17, 2001																						
MATERIAL: Zone F - Filter Sand				PROJECT NO.: 11162/14																						
				AREA: Zone F Stockpile																						
Sample No.	Date Sampled	Location	El. (m)	C1			C2	LI	C3 (Particle Size Distribution)													C4		C6		
				Atterberg Limits					Field Moisture %	101.6	75.0	38.1	25.0	19.0	9.5	4.75	2.0	0.85	0.425	0.25	0.15	0.075	0.0075		Standard Proctor	Specific Gravity
				PL %	LL %	PI %																				
20-31	28-Mar-01	Zone F Stockpile	-	-	-	-	4.1	-	100.0	100.0	100.0	100.0	99.6	84.0	61.6	43.0	28.5	21.3	16.5	12.7	10.0	-	-	-		
20-32	28-May-01	Zone F Stockpile	-	-	-	-	4.0	-	100.0	100.0	100.0	100.0	99.4	78.9	59.9	43.4	29.6	21.9	16.8	13.1	10.4	-	-	-		
20-33	28-May-01	Zone F Stockpile	-	-	-	-	2.9	-	100.0	100.0	100.0	100.0	98.7	56.0	28.1	17.6	12.8	10.1	7.8	6.1	4.8	-	-	-		
20-34	11-Jun-01	Zone F Stockpile	-	-	-	-	3.7	-	100.0	100.0	100.0	100.0	99.3	59.2	35.0	24.2	15.0	10.5	7.8	6.1	4.8	-	-	-		
20-35	11-Jun-01	Zone F Stockpile	-	-	-	-	4.2	-	100.0	100.0	100.0	100.0	97.9	59.3	34.7	24.7	15.3	10.6	8.0	6.4	5.1	-	-	-		
20-36	12-Jun-01	Zone F Stockpile	-	-	-	-	2.6	-	100.0	100.0	100.0	100.0	97.7	60.0	37.0	24.2	16.5	12.2	9.4	7.1	5.6	-	-	-		
MEAN				ADIV:01	#DIV:01	#DIV:01	3.6	#DIV:01	100.0	100.0	100.0	100.0	98.8	66.3	42.7	29.5	19.6	14.4	11.1	8.6	6.8	ADIV:01	ADIV:01	ADIV:01	ADIV:01	
MEDIAN				ANUM:01	#NUM:01	#NUM:01	2.9	#NUM:01	100.0	100.0	100.0	100.0	99.0	60.0	35.0	24.5	15.9	11.4	8.7	6.8	5.4	ANUM:01	ANUM:01	ANUM:01	ANUM:01	
MAXIMUM (*)				0.0	0.0	0.0	3.2	0.0	100.0	100.0	100.0	100.0	99.6	84.0	61.6	43.4	29.6	21.9	16.8	13.1	10.4	0.0	0.0	0.0	0.0	
MINIMUM (*)				0.0	0.0	0.0	2.6	0.0	100.0	100.0	100.0	100.0	97.7	56.0	28.1	17.6	12.8	10.1	7.8	6.1	4.8	0.0	0.0	0.0	0.0	

Note: These are 100% limits.

Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

IP - In progress

- C1 Atterberg Limits (ASTM D4318)
 C2 Moisture Content (ASTM D2216)
 C3 Particle Size Distribution (ASTM D422)
 C4 Laboratory Compaction (ASTM D1557)
 C6 Specific Gravity (ASTM D854)

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

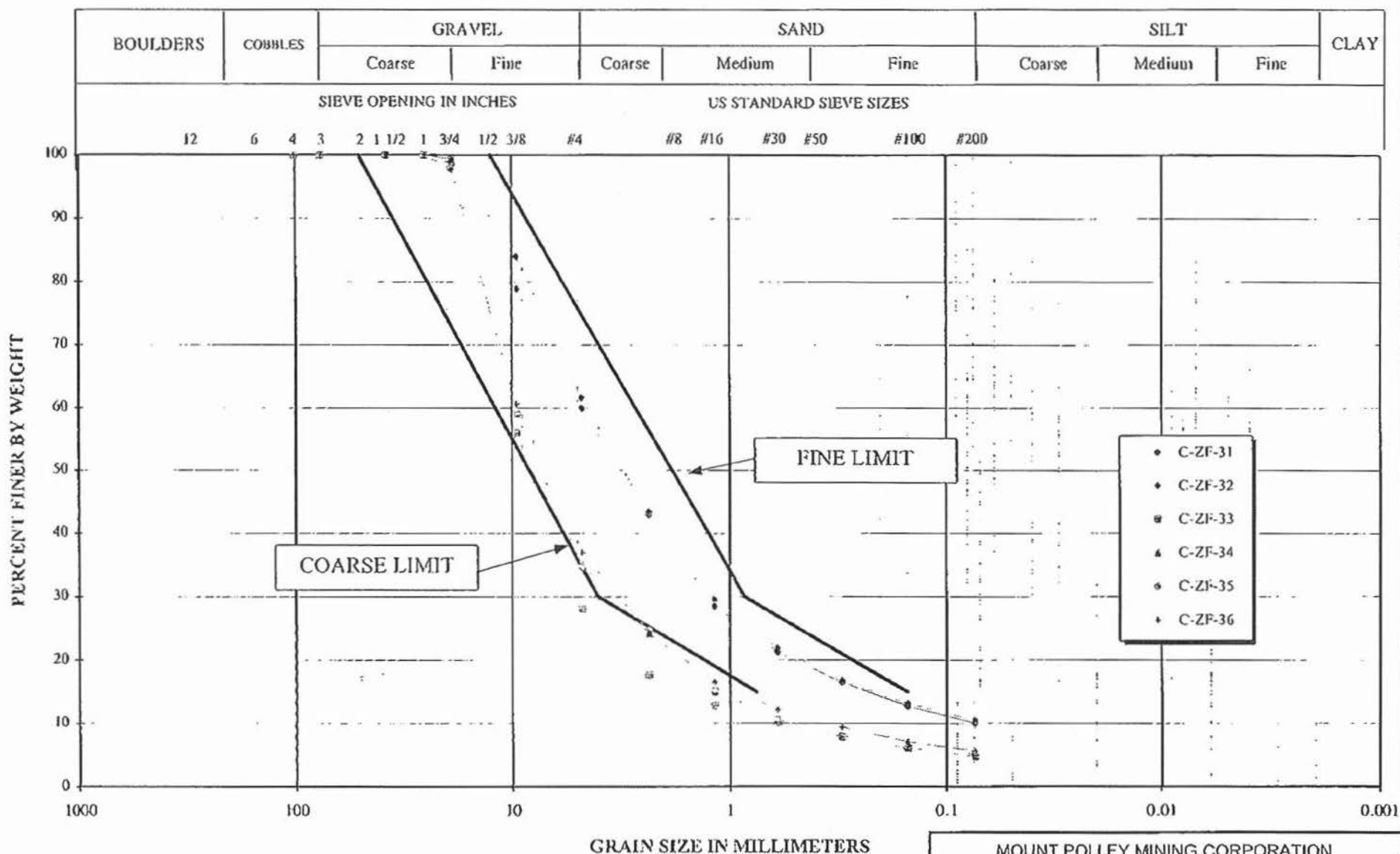
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Note: These are 100% limits.

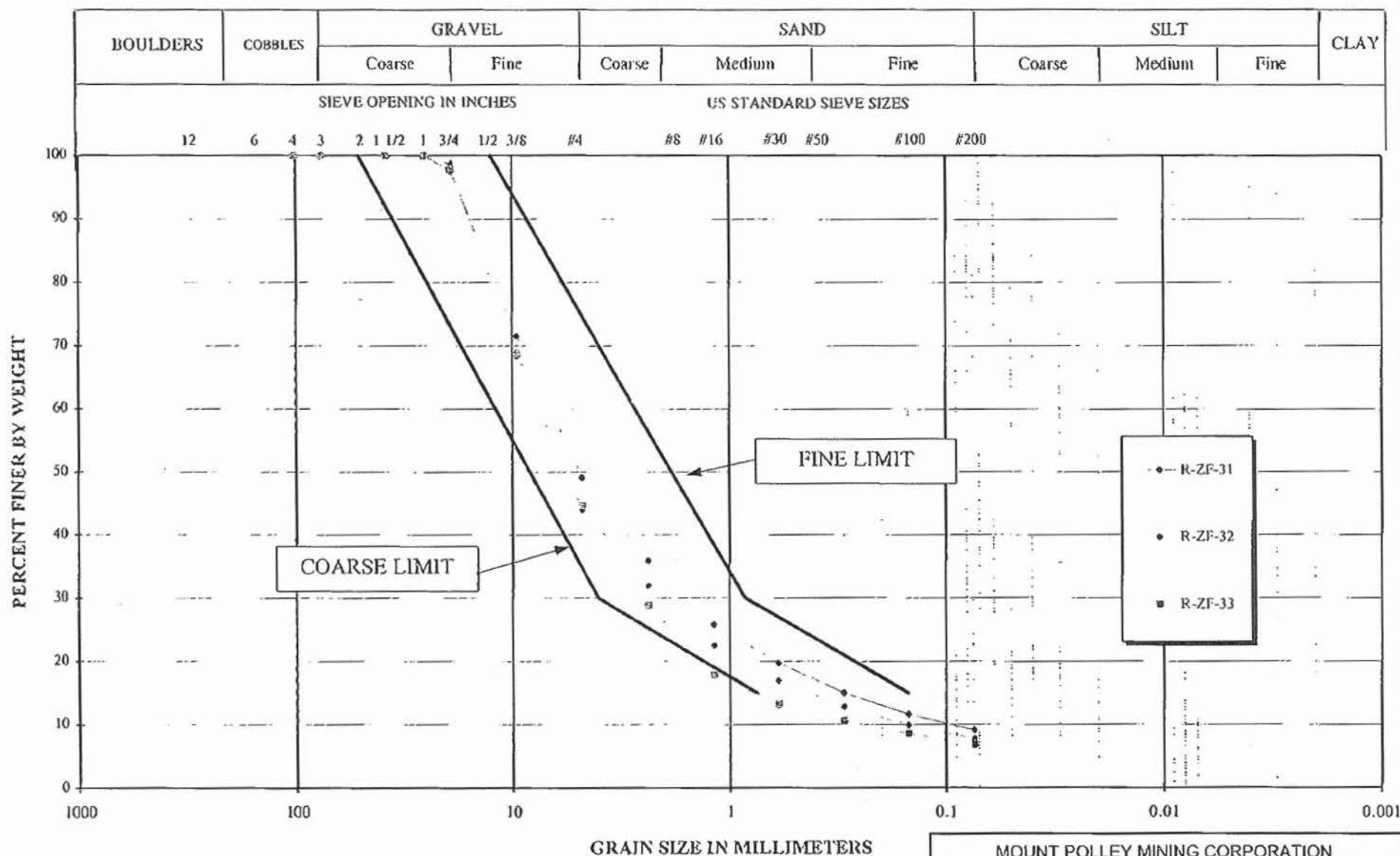
Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

IP - in progress

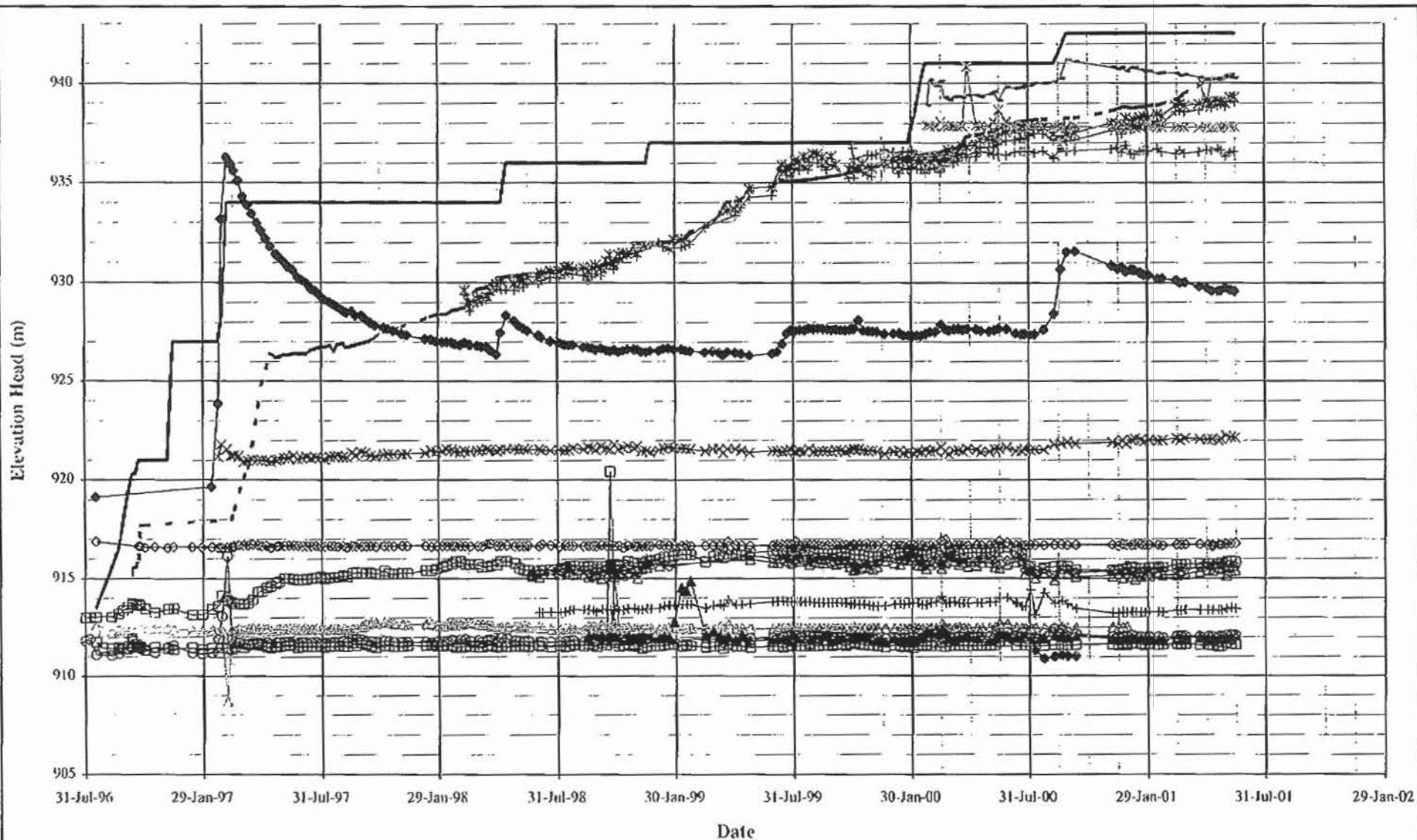
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|----|--|
| R1 | Atterberg Limits (ASTM D4318) |
| R2 | Moisture Content (ASTM D2216) |
| R3 | Particle Size Distribution (ASTM D422) |
| R4 | Laboratory Compaction (ASTM D1557) |
| R6 | Specific Gravity (ASTM D854) |



MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY - STAGE 3B		
CONSTRUCTION - ZONE F CONTROL SAMPLES		
GRADATION CURVES		
Knight Piésold CONSULTING	PROJECT NO.	REF. NO.
	11162/14	
		REV.
		FIGURE 4.1



MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY - STAGE 3B		
CONSTRUCTION - ZONE F RECORD SAMPLES		
GRADATION CURVES		
Knight Piésold CONSULTING	PROJECT NO.	REF. NO.
	11162/14	
		REV
		FIGURE 4.2



- | | | | |
|------------------|------------------|-----------------|-----------------|
| - - - Pond Level | — Fill Elevation | * A0-PE2-01 | + A0-PE2-02 |
| - - - A1-PE1-01 | - - - A1-PE1-02 | - - - A1-PE1-03 | - - - A2-PE1-01 |
| - - - A2-PE2-01 | - - - A2-PE2-02 | - - - A2-PE2-03 | - - - A2-PE2-05 |
| - - - A2-PE2-06 | - - - A2-PE2-07 | - - - A2-PE2-08 | - - - A1-PE1-04 |
| - - - A2-PE1-02 | - - - A0-PE1-01 | - - - A2-PE1-03 | |

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

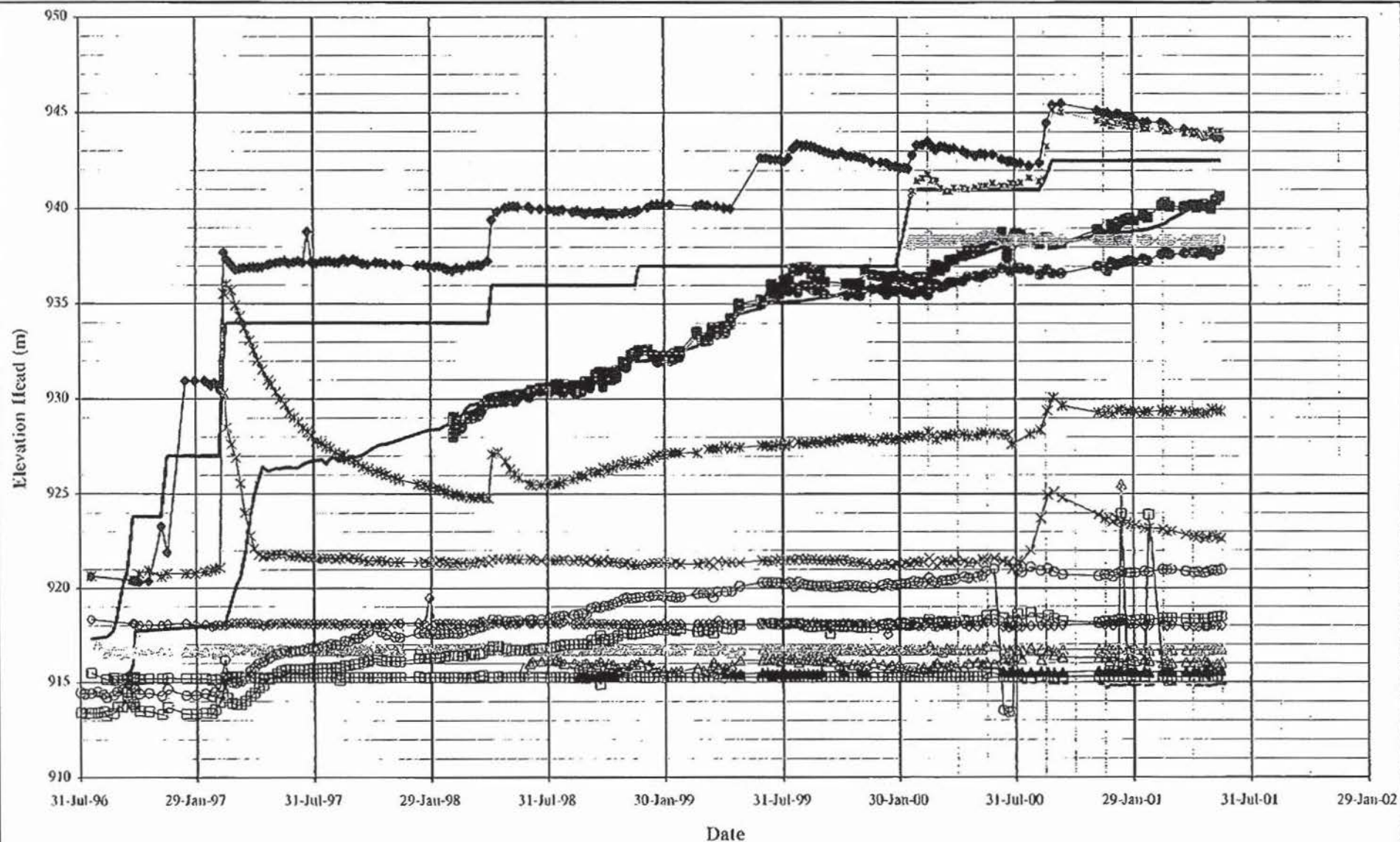
PLANE A PIEZOMETERS

GRAPH OF ELEVATION vs. TIME

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PROJECT NO. 11162/14	REF. NO.	REV.
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FIGURE 5.1



— Pond Level — Fill Elevation ■ B0-PE2-01 ● B0-PE2-02 — B1-PE2-01
 □ B1-PE1-01 ◇ B1-PE1-03 ▲ B2-PE1-01 □ B2-PE2-01 ○ B2-PE2-02
 ◆ B2-PE2-03 × B2-PE2-04 × B2-PE2-05 △ B2-PE2-06 — B0-PE1-01
 × B2-PE1-02 • B2-PE1-03

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

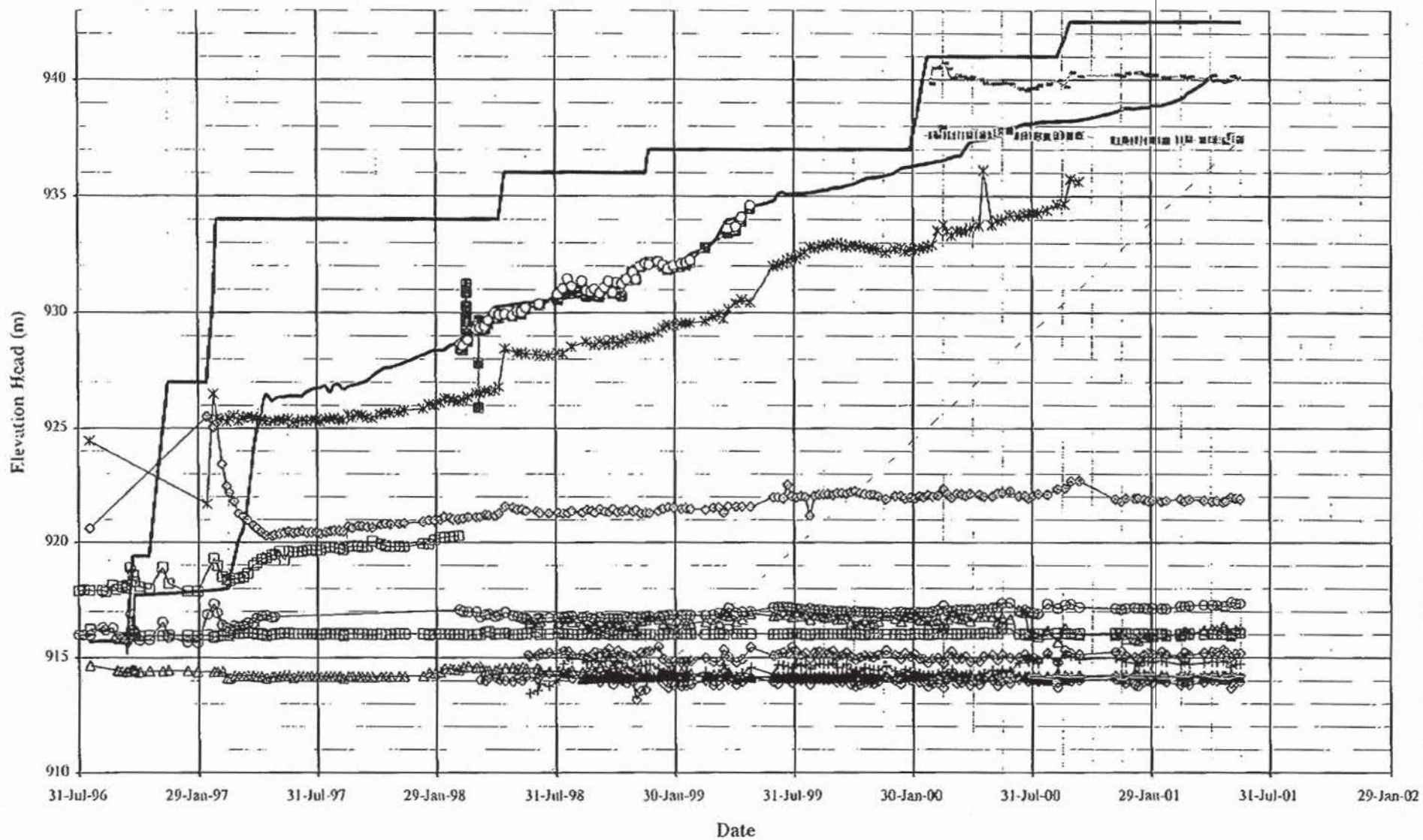
PLANE B PIEZOMETERS

GRAPH OF ELEVATION vs. TIME

Knight Piésold
 CONSULTING

PROJECT NO. 11162/14	REF NO.	REV.
-------------------------	---------	------

FIGURE 5.2



— Pond Level	— Fill Elevation	■ C0-PE2-01	○ C0-PE2-02	△ C1-PE1-01
□ C1-PE1-02	◇ C1-PE1-04	▲ C2-PE1-01	▣ C2-PE2-01	○ C2-PE2-02
◇ C2-PE2-03	* C2-PE2-05	△ C2-PE2-06	◇ C2-PE2-07	+ C2-PE2-08
■ C0-PE1-01	- C2-PE1-02	○ C2-PE1-03		

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

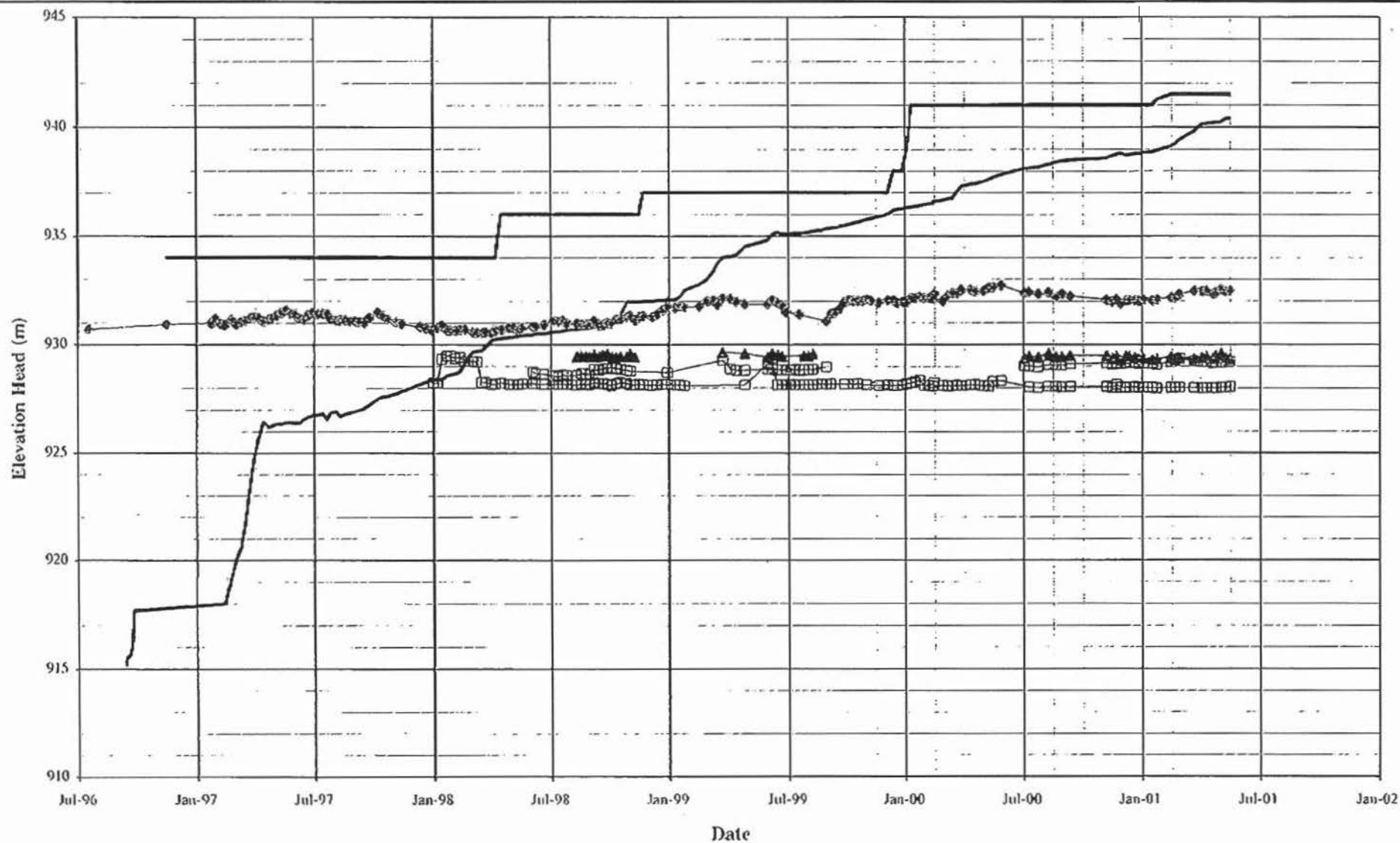
PLANE C PIEZOMETERS

GRAPH OF ELEVATION vs. TIME

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PROJECT NO. 11162/14	REF. NO.	REV.
-------------------------	----------	------

FIGURE 5.3



— Pond Level — Fill Elevation □ D1-PE1-02
 ▲ D2-PE1-01 ◆ D2-PE2-01 □ D2-PE2-02

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

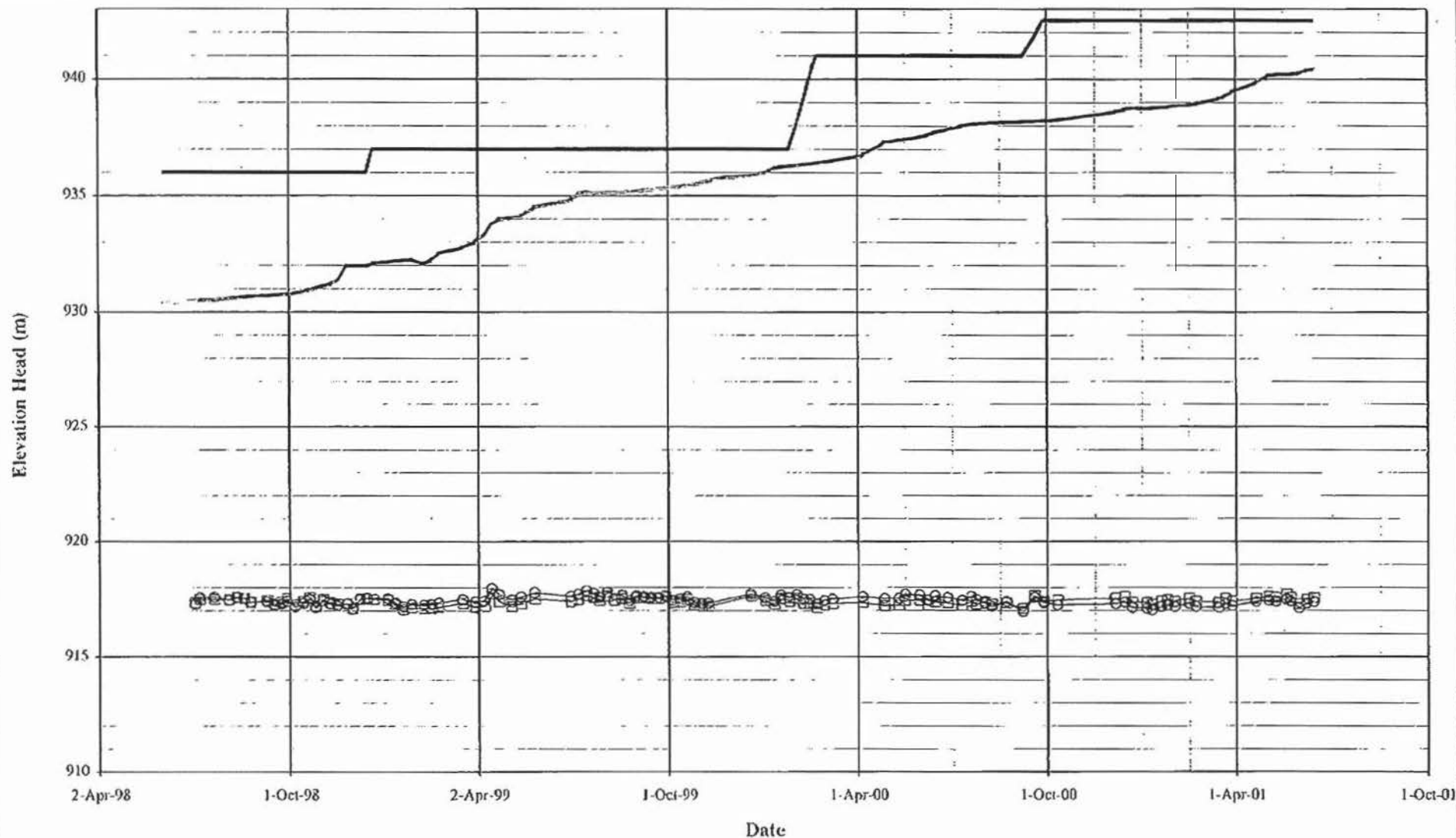
PLANE D PIEZOMETERS

GRAPH OF ELEVATION vs. TIME

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PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 5.4



— Pond Level — Fill Elevation
 —□— E2-PE2-01 —○— E2-PE2-02

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

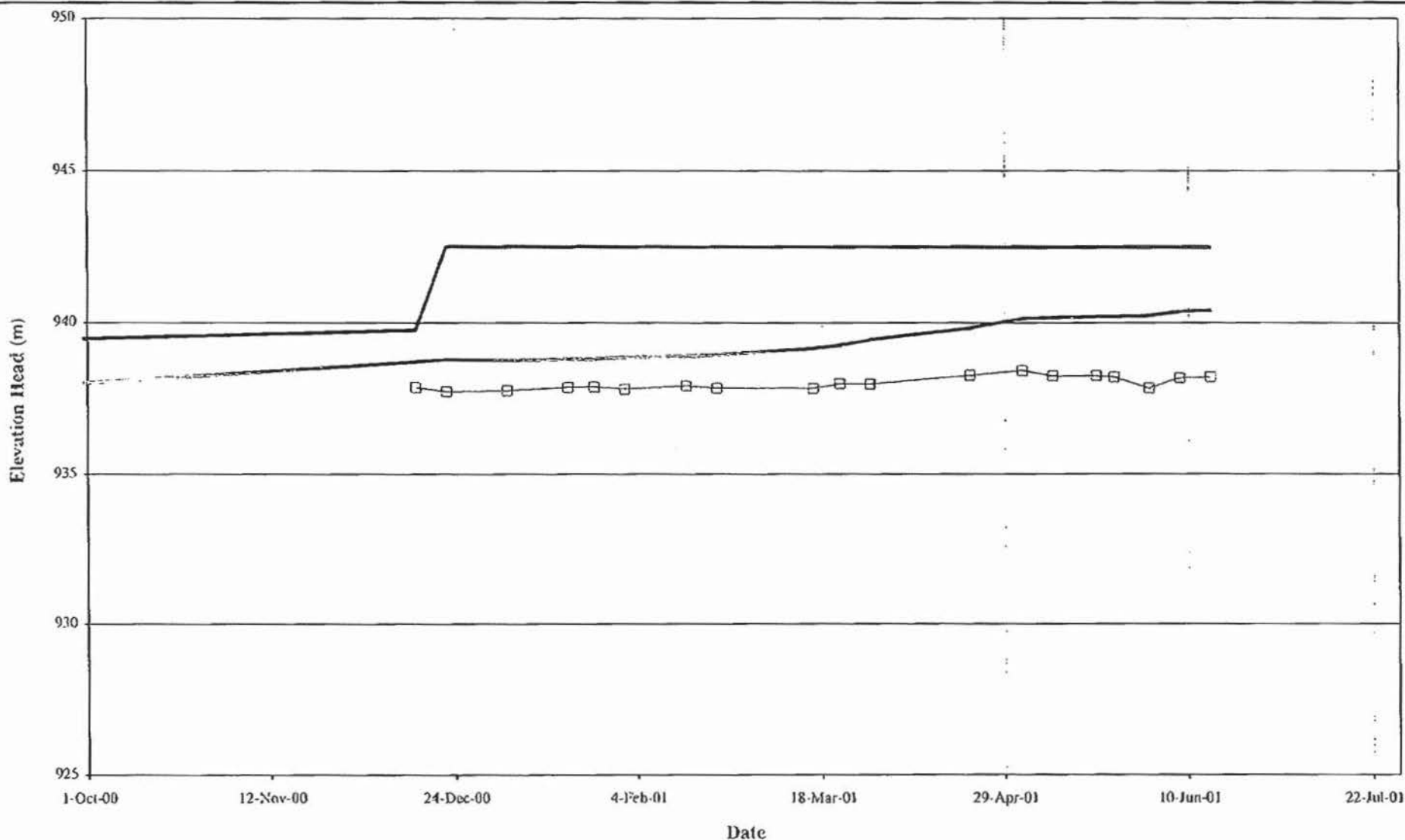
PLANE E PIEZOMETERS

GRAPH OF ELEVATION vs. TIME

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PROJECT NO.	REF NO.	REV.
11162/14		

FIGURE 5.5



Pond Level
 Fill Elevation

□
 F2-PE2-01

MOUNT POLLEY MINING CORPORATION

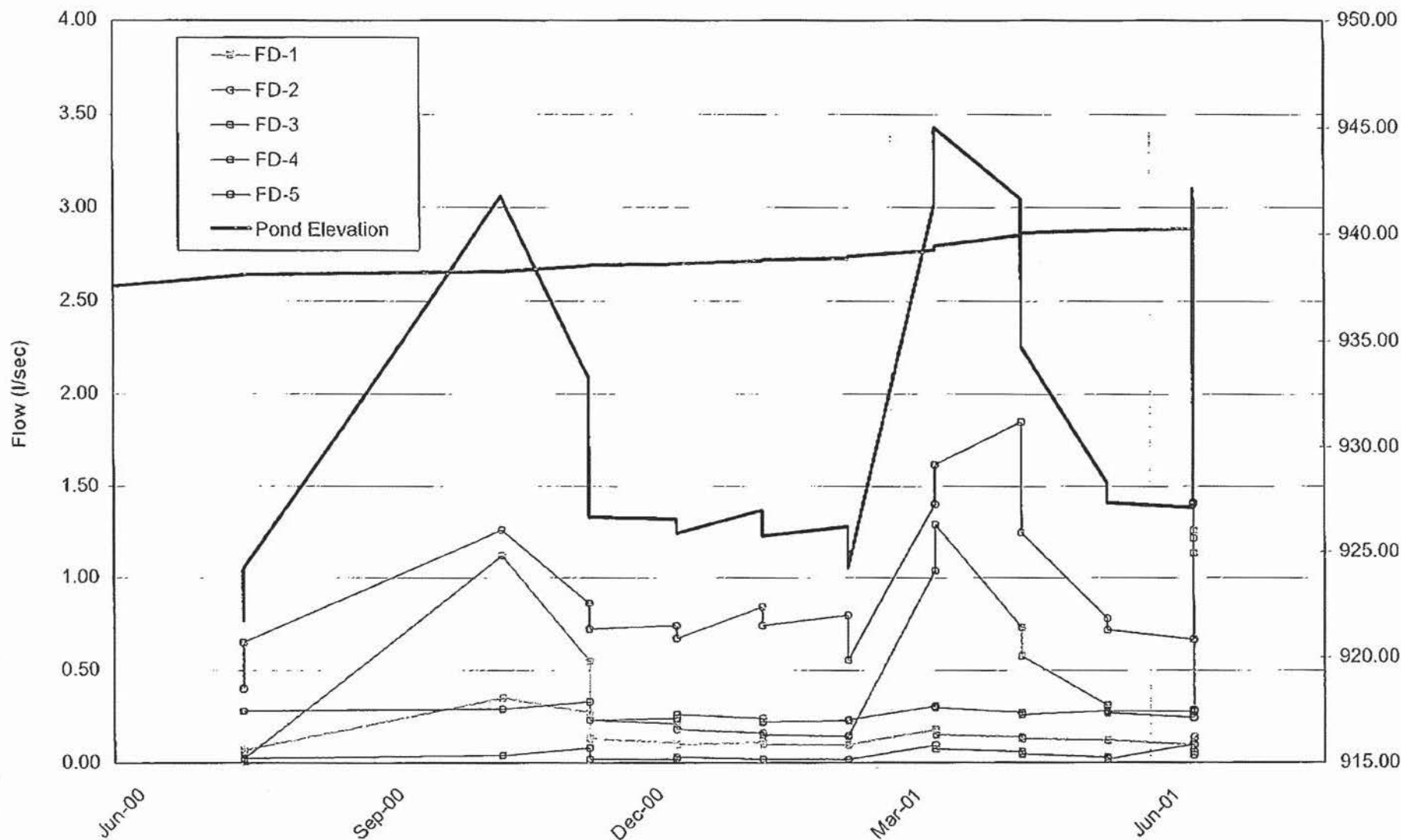
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
 PLANE F PIEZOMETERS
 GRAPH OF ELEVATION vs. TIME

Knight Piésold
CONSULTING

PROJECT NO. 11162/14	REF. NO.	REV
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FIGURE 5.6



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

MAIN EMBANKMENT

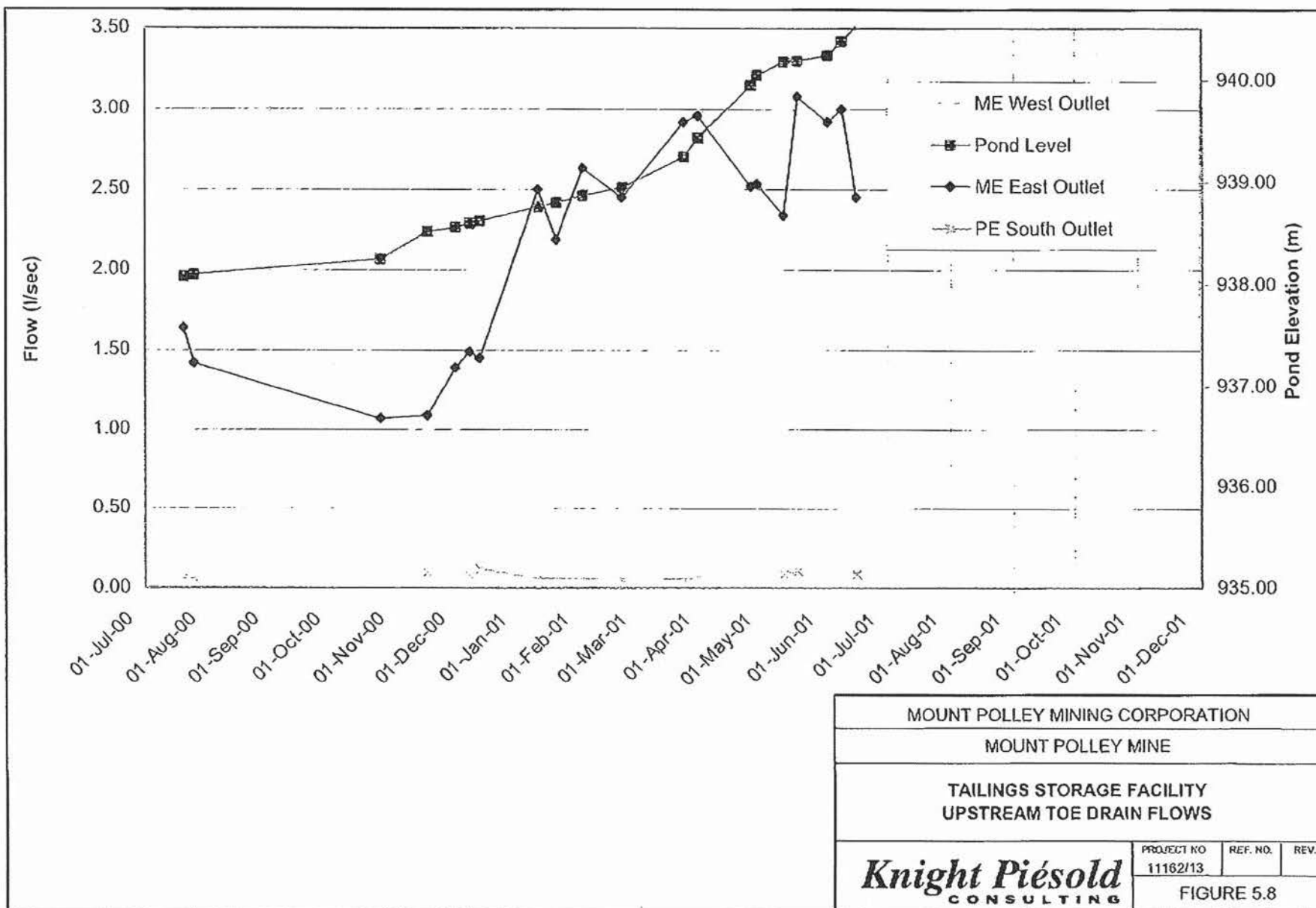
FOUNDATION DRAIN FLOWS

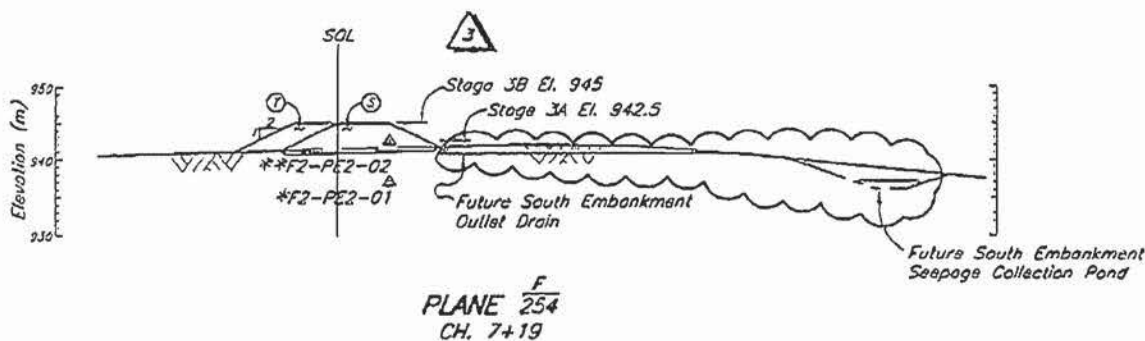
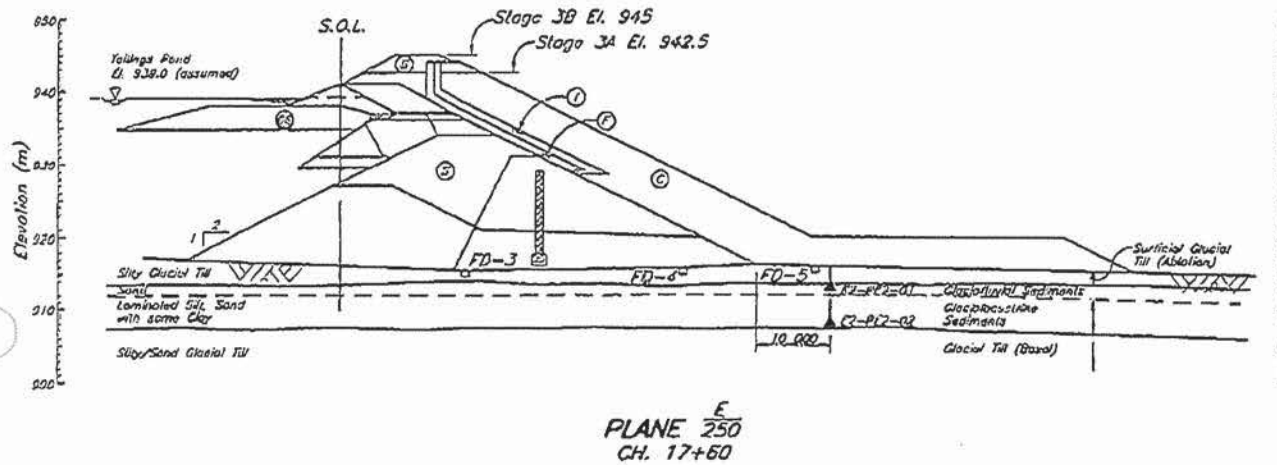
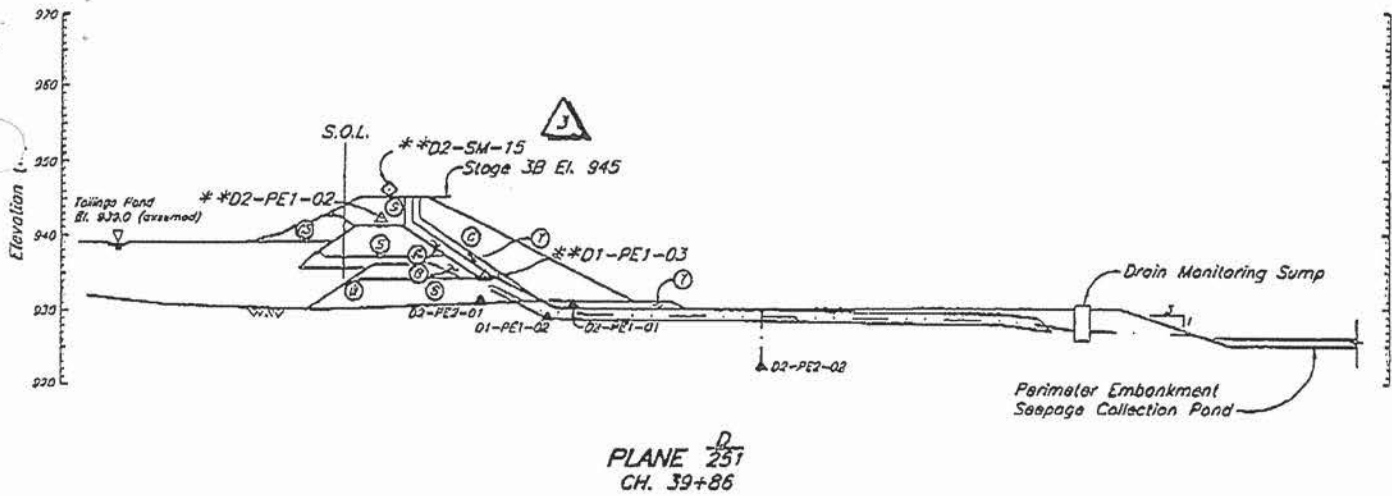
Knight Piésold
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PROJECT NO
11162/13

REF. NO.

REV

FIGURE 5.7

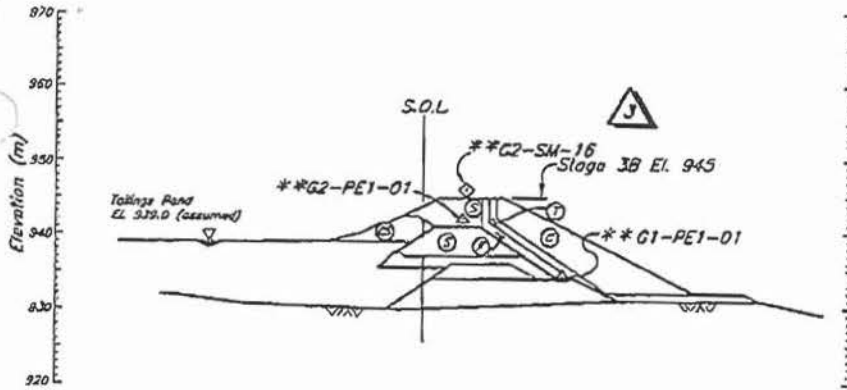




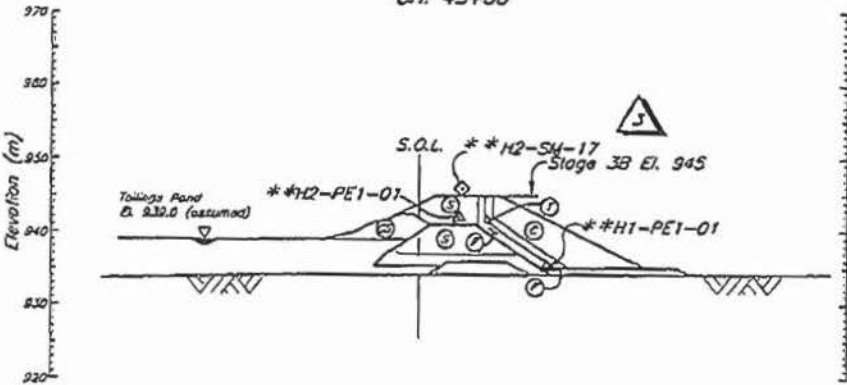
STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION SUMMARY OF INSTALLATION & TYPICAL DETAILS
STAGE 3 TAILINGS EMBANKMENT - SOUTH EMBANKMENT - INSTRUMENTATION PLAN
STAGE 3 PERIMETER EMBANKMENT - INSTRUMENTATION PLAN
STAGE 3 TAILINGS EMBANKMENT - MAIN EMBANKMENT - INSTRUMENTATION PLAN

3	08MAY'01	ISSUED FO
2	26JAN'01	STAGE 3B
1	20OCT'00	PERIMETER
0	2JUN'00	ISSUED FO

DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED	REV.	DATE
REFERENCE DRAWINGS			REVISIONS						



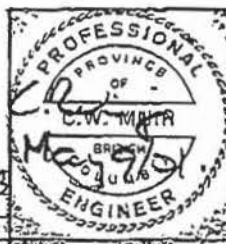
PLANE $\frac{G}{251}$
CH. 43+00



PLANE $\frac{H}{251}$
CH. 36+00

NOTE

1. See Drg. No. 11162-13-256 for Summary of Instrumentation Installations, Typical Details, General Notes and Legend.
2. Instrumentation with one asterisk indicates placement during Stage 3A construction. Instrumentation with 2 asterisks indicate placement during Stage 3B construction.



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 3 TAILINGS EMBANKMENT
INSTRUMENTATION
SECTIONS - SHEET 2 OF 2

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CONSULTING

SCALE AS SHOWN
REVISION 3
DRAWING NO. 11162-13-259

FOR STAGE 3B TENDER	CWM	DSR	JRK	KJB
3 - CREST ELEVATION 945	JRK	AW	JMTW	KJB
TER EMBANKMENT SECTIONS ADDED	JRK	NSO	JMTW	KJB
FOR CONSTRUCTION	JRK	TAM	ABW	KJB
DESIGN	DESIGN	DRAWN	CHK'D	APP'D
REVISIONS	DESIGN	DRAWN	CHK'D	APP'D

DESIGNED	JRK	CHIEF	ABW
DRAWN	DSR	APPROVED	KJB

13/7/01 → Tule

85:21 10. 40 70r

Knight Piésold
CONSULTINGMount Polley Site Office Fax: (250) 790-2268
www.knightpiesold.com

DATE: July 4, 2001

FILE NO.: 11162/14.F01/F02/
/F04/F05/F08

TIME:

REF NO.:

01-19

OPERATOR:

PAGES: 1 of 20

SENDER: Wilson Muir

TO: Ministry of Energy and Mines, Victoria B.C. FAX: 250-952-0481

ATTN: Chris Carr

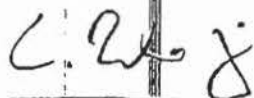
CC: Ken Brouwer, KP Vancouver
Don Parsons / Eric LeNeve, MPMC Site

SUBJECT: Progress Report No. 12

Dear Mr. Carr,

Please find enclosed a copy of Progress Report No. 11 from June 18 to July 1, 2001. If you have any questions, please do not hesitate to contact me on site or Ken Brouwer in our Vancouver office.

Regards,



C. Wilson Muir, P.Eng.

Resident Engineer

Knight Piésold Consulting

MINISTRY OF
ENERGY AND MINES
REC'D JUL - 4 2001

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Knight Piesold
CONSULTING**MOUNT POLLEY MINING CORPORATION**
MOUNT POLLEY MINE**TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION**
PROGRESS REPORT NO. 12 - JUNE 18 TO JULY 1, 2001**SECTION 1.0 - GENERAL**

Mount Polley Mining Corporation (MPMC) continued Stage 3B construction activities. Knight Piesold Ltd. (KP) carried out QA/QC activities during the reporting period.

The scope of work includes:

1. Placement of Zones F, T and C to approximate El. 941.5 m on the Perimeter Embankment (Ch. 32+00 to 44+50). MPMC is carrying out this work with the exception of filter sand hauling between the millsite and the TSF, which is being completed by sub-contractors.
2. Placement of Zones CBL, S, F, T and C on the Main, Perimeter and South Embankments to El. 945 m. This work will be carried out under contract. A Contractor for this work has yet to be determined.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- Wilson Muir, Resident Engineer.

The following MPMC personnel were on site during the reporting period:

- Don Parsons Mine Superintendent
- Eric LeNeve Tailings Coordinator
- Charlie O'Hara General Foreman
- Don Jameson Site Foreman
- Ron Gale Site Foreman

1.2 CONTRACT DEVELOPMENTS

On behalf of MPMC, Knight Piesold commenced writing of the Tender Documents for Stage 3B Construction.

1.3 DESIGN DEVELOPMENTS

A design change was submitted and approved by the KP design office. This design change takes the minimum Zone F thickness from 1000 mm to 500 mm over the downstream cycloned sand trial berm only. The area covered due to this change is Ch 39+00 to 40+00, El. 931 to 941.5 m.

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1.3 WEATHER

Conditions were unsettled during the reporting period. This included periods of cloud, rain and sunshine. Maximum daytime highs reached about +23 °C and nightly lows sank to as low as +5 °C.

1.4 SAFETY

No safety incidents were reported over the reporting period.

SECTION 2.0 - TAILINGS FACILITY OPERATION AND MAINTENANCE

Tailings were spigotted along the Main Embankment crest during the reporting period at approximate Chainage 17+00. It is anticipated that tailings will form a substantial beach upstream of the ridge between the Main and South Embankments by discharging at this location.

The Tailings Pond remains a significant distance from the Perimeter Embankment.

SECTION 3.0 - CONSTRUCTION ACTIVITIES

3.1 EQUIPMENT

MPMC used the following equipment over the reporting period:

- Excavators: 1 Hitachi EX 270
- Haul Trucks: 3 Caterpillar 777 85T
- Loaders: 1 Caterpillar 992
- Dozers: 1 Caterpillar D7G, 1 Caterpillar D8R, 1 Caterpillar D6
- Compactors: 1 Caterpillar CS 563 10T vibratory smooth drum
- Graders: 1 Caterpillar 14G
- Drills: 1 Svedala STK and 1 Driltec 25K
- Service and fuel trucks
- 153 Mile Contracting: 6 highway dump trucks and Caterpillar 966 loader

MPMC carried out the following activities during the reporting period:

- Placement of Zone F fill, Perimeter Embankment: Ch. 40+50 to 43+25, El. 933 to 937 m.
- Placement of Zone T fill, Perimeter Embankment: Ch. 32+00 to 39+00, El. 931 to 937 m and 40+50 to 45+50, El. 933 to 941.5 m.
- Placement of Zone C fill, Perimeter Embankment, Ch. 32+00 to 39+00, El. 931 to 937 m and Ch. 40+50 to 42+50, El. 933 to 937 m.
- Development of the Rock Borrow for Zones T and C materials.

Zones T and C were supplied from the Rock Borrow, while Zone F was delivered from the crushed stockpile at the millsite. Zone F was placed up the slope on top of the existing Zone S in

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a 1 metre thick lift, while Zone T was placed upon Zone F in a 1 metre thick lift. Zone C was placed in 1 metre thick, horizontal lifts to the downstream toe of the Stage 3B Perimeter Embankment.

SECTION 4.0 - KNIGHT PIESOLD ACTIVITIES

4.1 GENERAL

KP activities over the reporting period included the following:

- Monitoring and inspection of fill placement of Zones F and T.
- Submission of daily summaries of QA/QC and construction activities to MPMC.
- Control and Record sampling and testing of embankment fill materials.
- Ongoing discussions and correspondence with MPMC and KP Vancouver with regard to current and future design.
- Preparation of progress reports.

Knight Piesold personnel were not on site during Zone C fill placement. This zone is considered to be a bulk fill that requires little supervision in order to achieve the specifications. The dates that KP personnel were away from site were June 25 to June 30, 2001.

4.2 Laboratory Testing

The following samples were processed during the reporting period:

- R-ZF-34 and 35
- R-ZT-13

Both Zone F record tests failed the grain size specification on the # 16 sieve only. This material was allowed to remain in place since this type of material maintains filter relationship criteria with the Zone S fills. The crushing of further waste rock will be adjusted to achieve the specification and a filter relationship with the cycloned sand.

The Zone T record test proved suitable for Zone T fill.

All tests carried out during the reporting period are presented in the attached tables and figures.

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Instrumentation was monitored during the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

5.2 VIBRATING WIRE PIEZOMETERS

Piezometer H1-PE1-01 at Ch. 35+75 was installed over the reporting period. This piezometer is located in the Zone F material, as shown on the attached Drawings.

Piezometer readings are taken on a weekly basis. The results from the monitoring are shown on Figures 5.1 to 5.6. Locations of the piezometers are presented on the attached Drawings.

Foundation Piezometers

No substantial changes were noted in the remaining foundation piezometers.

Fill Piezometers

The majority of the Main Embankment glacial till piezometers responded to construction of the overlying Stage 3A fills with increasing pore pressures. These piezometers are now fully dissipated, as a constant, horizontal trend has been showing for some time now.

Two piezometers located within the Stage 1A glacial till fill have historically registered anomalous values, and warrant discussion.

Piezometer B2-PE2-03 reacted strongly to fill placement during initial construction. Pore pressures did not dissipate in the periods following fill placement, but remained constant. This is in direct contrast to other instruments located nearby. This trend changed in 1999, when B2-PE2-03 began to show dissipation at the completion of fill placement. This new trend has been repeated three times, with approximately the same dissipation rate after each stage of construction, with an increase in pore pressure between 50 and 100% of the increase in total stress. It appears that drainage paths were limited in the fill around this piezometer and pore pressures are still equilibrating.

Piezometer C2-PE2-05 is also located in the Stage 1A glacial till fill. This instrument historically showed little or no reaction to construction, but indicated a slow, steady increase in pore pressure over time. This suggests that pore pressures in the fill around C2-PE2-05 are reaching a steady state condition as the phreatic surface moves through the fill. It should be noted that the pressure head registered by this piezometer is approximately 10 m. This is similar to other piezometers located in comparable locations in the glacial till fill.

Drain Piezometers

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All drain piezometers have remained static and at very low head indicating free draining conditions within the embankment drainage systems.

Tailings Piezometers

Water levels at the tailings piezometers continue to mimic the pond level, except at the Main Embankment, where the upstream toe drain has resulted in a depressed phreatic surface.

5.3 DRAIN FLOWS

Drains flows were recorded on June 27, 2001. The results from the foundation drains and upstream toe drain are shown on Figures 5.7 and 5.8.

SECTION 5.0 - ONGOING ITEMS

The following items will be addressed during upcoming reporting periods:

- MPMC will continue to construct the Stage 3B Perimeter Embankment to El. 941.5 m.
- MPMC will select a Contractor to construct the embankments to El. 945 m.
- KP will continue to provide QA/QC and site supervision activities in accordance with the technical specifications.

Submitted by,



C. Wilson Muir, P.Eng.
Resident Engineer
Knight Piésold Consulting

Distribution: Eric LeNeve, Tailings Coordinator, MPMC Site
Don Parsons, Mine Superintendent, MPMC Site
Chris Carr, Ministry of Energy and Mines, Victoria, B.C.
Ken Brouwer, KP Vancouver

TABLE 4.2

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION

ZONE F RECORD TEST SUMMARY SHEET

1. DATA: Engdoc\Geotechnical\Specs\Stage 3B Construction\Record\ZF-summaries\Data Sheet

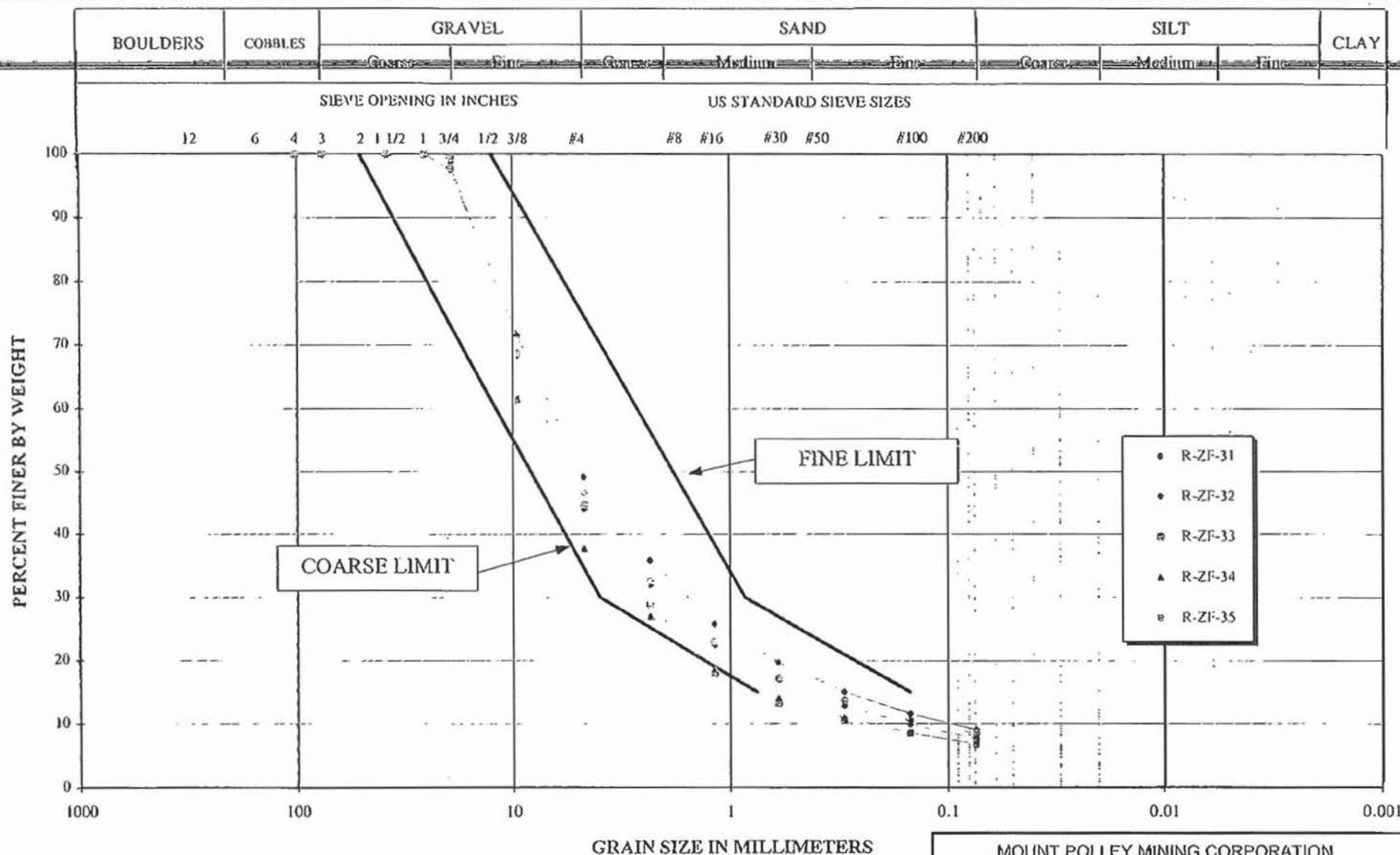
12/16/2001

Knight Piésold CONSULTING		SHEET: 1 of 1																							
PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION		PERIOD: June 18 to June 24, 2001																							
LOCATION: Zone F - Filler Sand		PROJECT NO.: 11162/14																							
		AREA: TSF																							
TEST NO.	Date Sampled	Location	EI (m)	C1			Field c/c %	LI %	C3 (Particle Size Distribution)												C4			C6 Specific Gravity	
				Atterberg Limits					101.6	76.2	47.5	25.0	19.0	9.5	4.75	2.36	1.18	0.6	0.3	0.149	0.075	0.02	Standard Proctor		
				PL	LL	PI			4	5	11.2	1	3.4	3.8	4	6	16	30	60	100	200	Clay	Max Dry Density kg/m ³		Optimum m/c %
				%	%	%			%	%	%	%	%	%	%	%	%	%	%	%	%	%	%		%
4-27-01	28-Mar-01	29-00, 0.5 m D/S of Zone S	941.8	-	-	-	4.0	-	100.0	100.0	100.0	100.0	97.5	71.5	49.1	35.9	25.8	19.7	15.0	11.6	9.1	-	-	-	-
4-28-01	25-Mar-01	37-00, 0.5 m D/S of Zone S	936.0	-	-	-	2.1	-	100.0	100.0	100.0	100.0	98.5	68.4	44.0	31.9	22.5	16.9	12.8	9.9	7.7	-	-	-	-
4-28-01	17-Jun-01	42-00, 0.8 m D/S of Zone S	936.0	-	-	-	7.0	-	100.0	100.0	100.0	100.0	97.9	68.8	44.7	28.8	17.8	13.2	10.6	8.5	6.9	-	-	-	-
4-28-01	20-Jun-01	35-00, 0.8 m D/S of Zone S	935.6	-	-	-	3.6	-	100.0	100.0	100.0	100.0	99.2	61.5	37.8	27.0	18.7	14.0	11.0	8.6	6.5	-	-	-	-
4-28-01	20-Jun-01	43-00, 0.8 m D/S of Zone S	937.0	-	-	-	4.5	-	100.0	100.0	100.0	100.0	99.4	70.8	46.6	32.6	23.0	17.2	13.7	10.6	8.5	-	-	-	-
MEAN				4.6	4.1	4.1	4.6	4.6	100.0	100.0	100.0	100.0	98.5	68.2	44.4	31.2	21.6	16.2	12.6	9.8	7.8	4.1	4.1	4.1	4.1
MEDIAN				4.1	4.1	4.1	4.1	4.1	100.0	100.0	100.0	100.0	98.7	68.8	44.7	31.9	22.5	16.9	12.8	9.9	7.7	4.1	4.1	4.1	4.1
MAXIMUM (%)				0.0	0.0	0.0	7.0	0.0	100.0	100.0	100.0	100.0	99.4	71.5	49.1	35.9	25.8	19.7	15.0	11.6	9.1	0.0	0.0	0.0	0.0
MINIMUM (%)				0.0	0.0	0.0	3.6	0.0	100.0	100.0	100.0	100.0	97.5	61.5	37.8	27.0	17.8	13.2	10.6	8.5	6.8	0.0	0.0	0.0	0.0

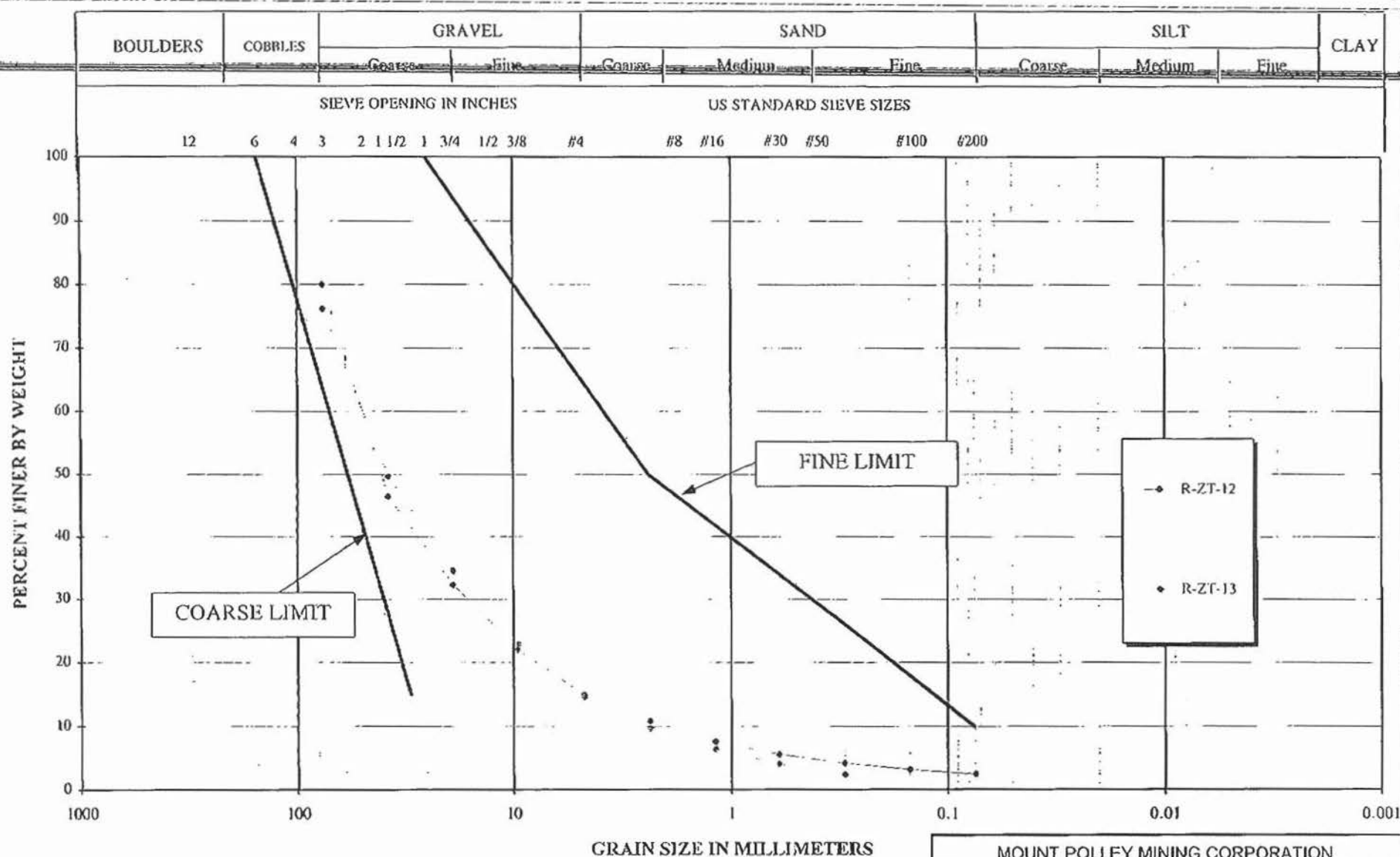
ZONE T RECORD TEST SUMMARY SHEET

230620

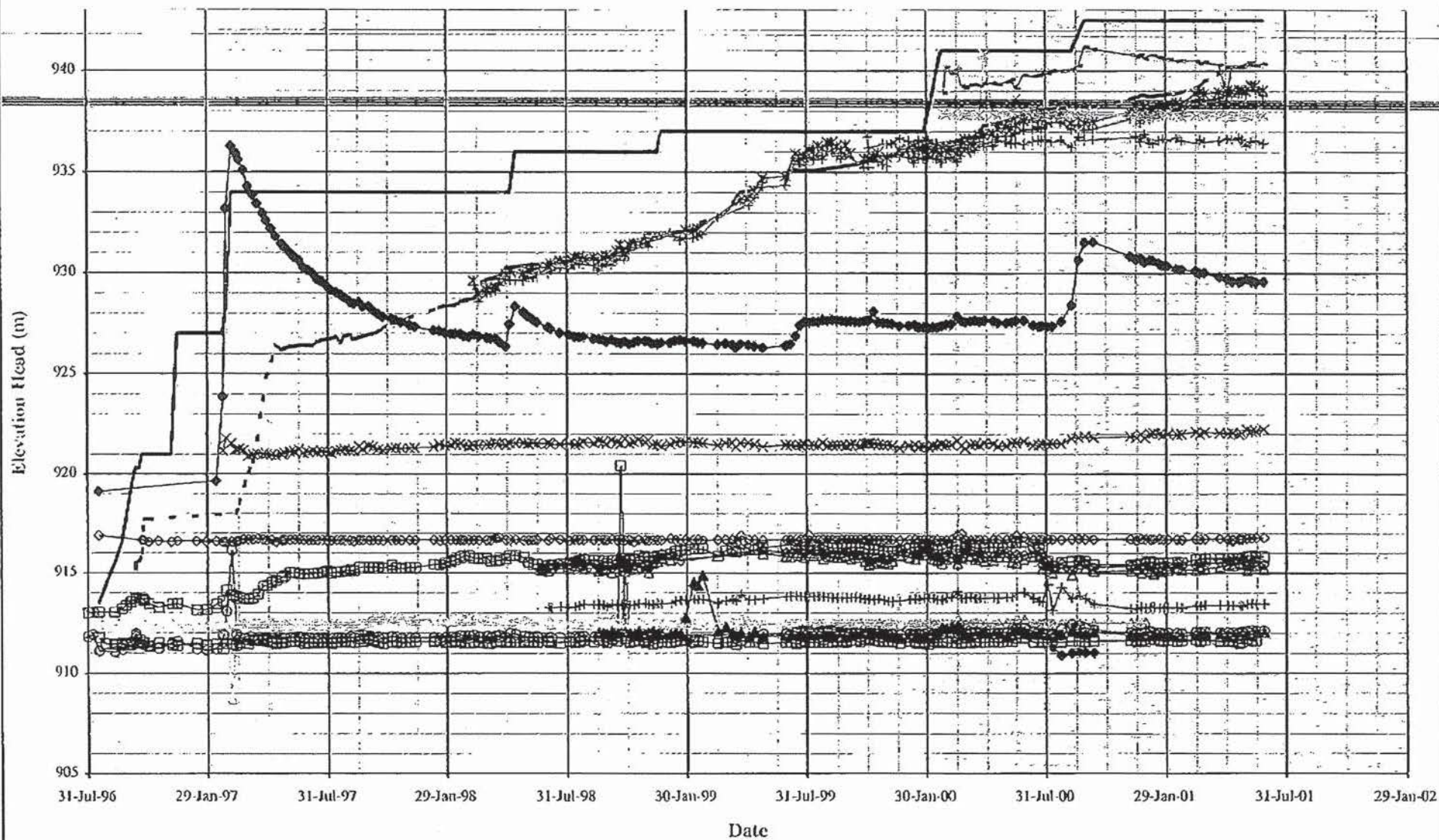
R1	Atterberg Limits (ASTM D4318)
R2	Moisture Content (ASTM D2216)
R3	Particle Size Distribution (ASTM D422)
R4	Laboratory Compaction (ASTM D1557)
R6	Specific Gravity (ASTM D854)



MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION - ZONE F RECORD SAMPLES GRADATION CURVES		
Knight Piésold CONSULTING	PROJECT NO. 11162/14	REF. NO.
	REV	
FIGURE 4.2		



MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY - STAGE 3B		
CONSTRUCTION - ZONE T RECORD SAMPLES		
GRADATION CURVES		
Knight Piésold		PROJECT NO. 11182/14
CONSULTING		REF. NO. REV.
FIGURE 4.4		



- - - Pond Level	— Fill Elevation	* A0-PE2-01	+ A0-PE2-02
— A1-PE1-01	— A1-PE1-02	— A1-PE1-03	— A2-PE1-01
— A2-PE2-01	— A2-PE2-02	— A2-PE2-03	— A2-PE2-05
— A2-PE2-06	— A2-PE2-07	— A2-PE2-08	— A1-PE1-04
— A2-PE1-02	— A0-PE1-01	— A2-PE1-03	

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

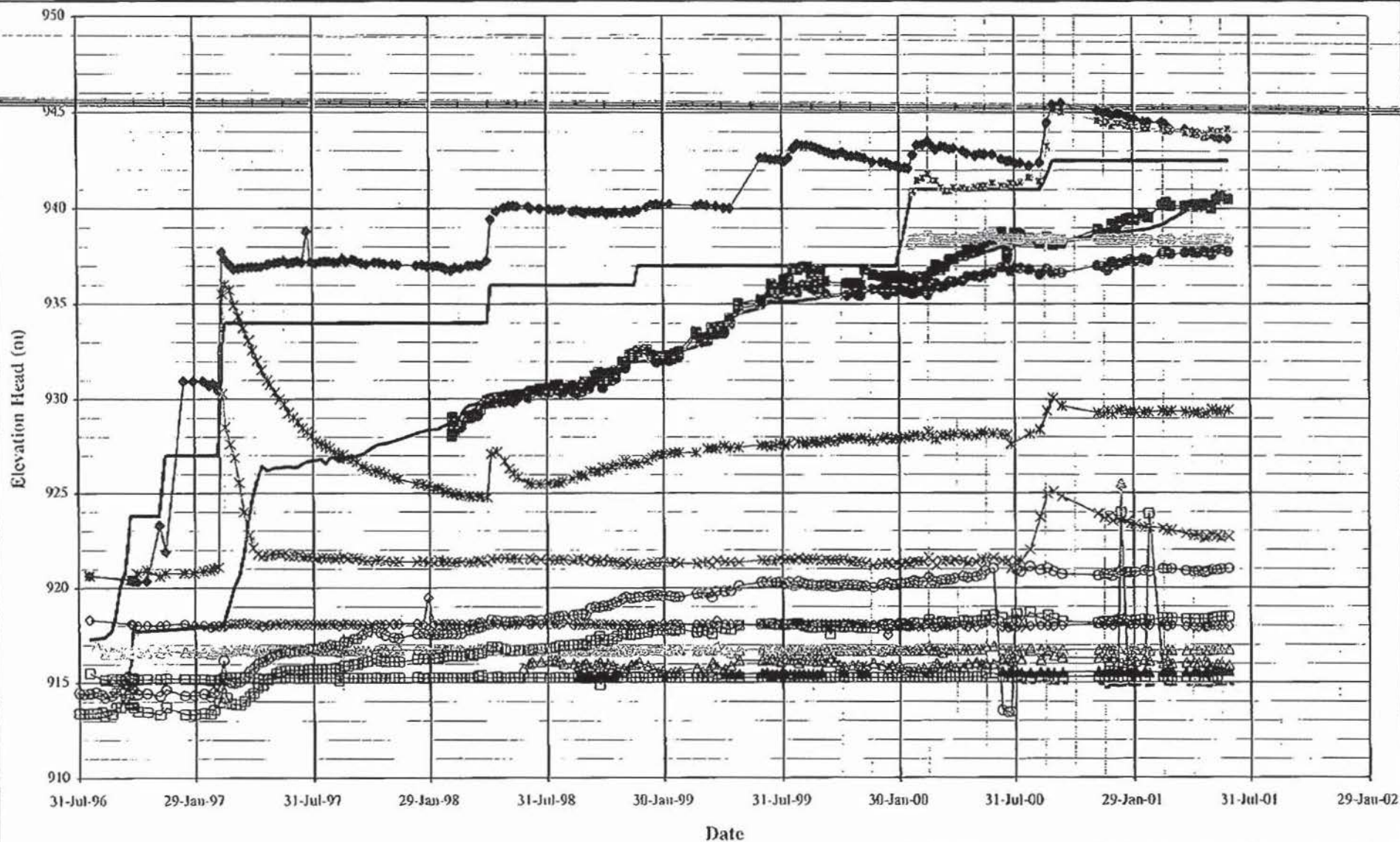
PLANE A PIEZOMETERS

GRAPH OF ELEVATION vs. TIME

Knight Piésold
CONSULTING

PROJECT NO. 11182/14	REF NO.	REV
-------------------------	---------	-----

FIGURE 5.1



— Pond Level — Fill Elevation ■ B0-PE2-01 ◆ B0-PE2-02 ▲ B1-PE2-01
 □ B1-PE1-01 ◇ B1-PE1-03 ▲ B2-PE1-01 □ B2-PE2-01 ○ B2-PE2-02
 ◆ B2-PE2-03 * B2-PE2-04 × B2-PE2-05 ▲ B2-PE2-06 ○ B0-PE1-01
 × B2-PE1-02 - B2-PE1-03

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

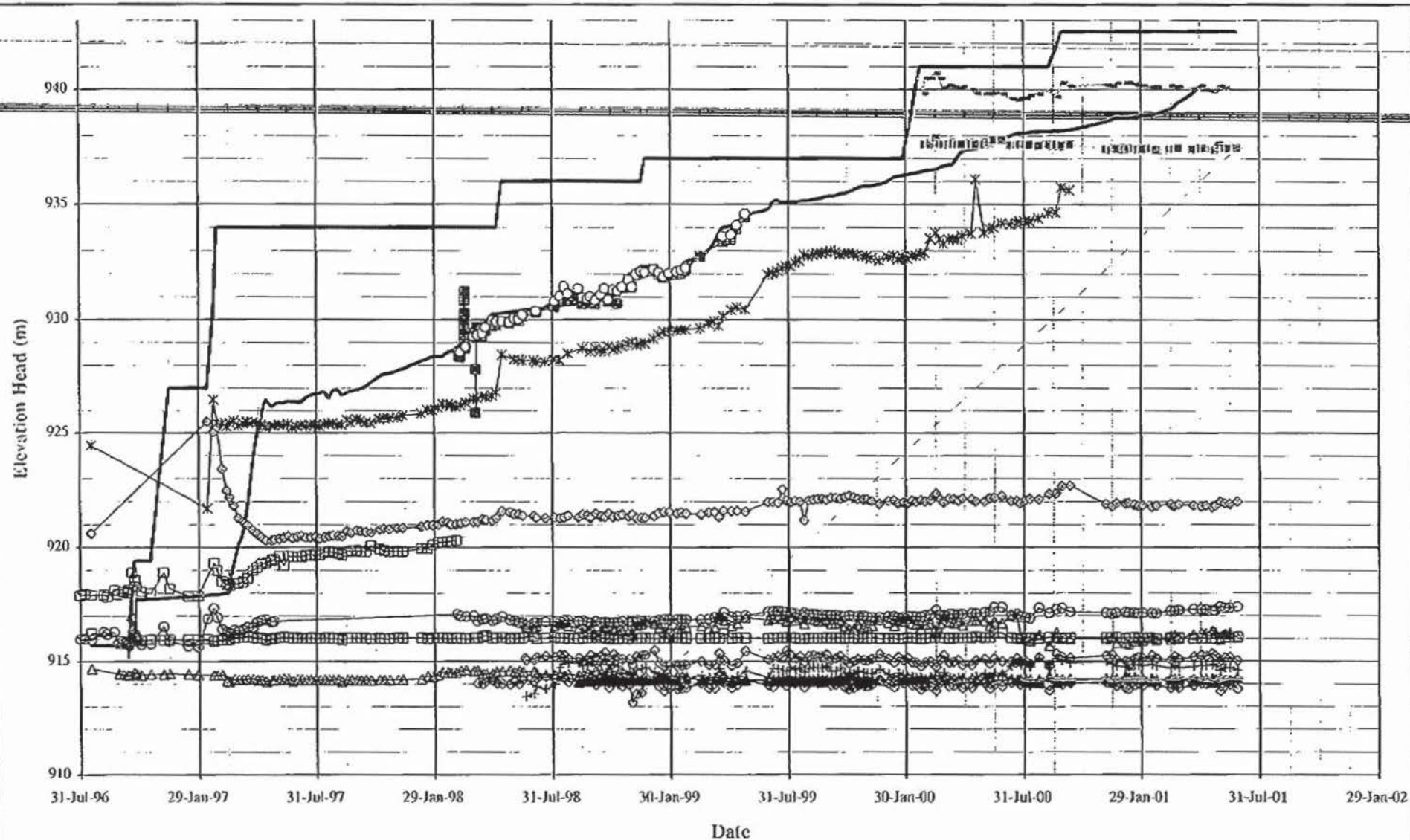
 TAILINGS STORAGE FACILITY
 PLANE B PIEZOMETERS

GRAPH OF ELEVATION vs. TIME

Knight Piésold
 CONSULTING

PROJECT NO.	REF. NO.	REV
11162/14		

FIGURE 5.2



— Pond Level	— Fill Elevation	■ C0-PE2-01	○ C0-PE2-02	△ C1-PE1-01
□ C1-PE1-02	◇ C1-PE1-04	▲ C2-PE1-01	▣ C2-PE2-01	○ C2-PE2-02
◇ C2-PE2-03	* C2-PE2-05	△ C2-PE2-06	◇ C2-PE2-07	+ C2-PE2-08
⊞ C0-PE1-01	→ C2-PE1-02	~ C2-PE1-03		

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

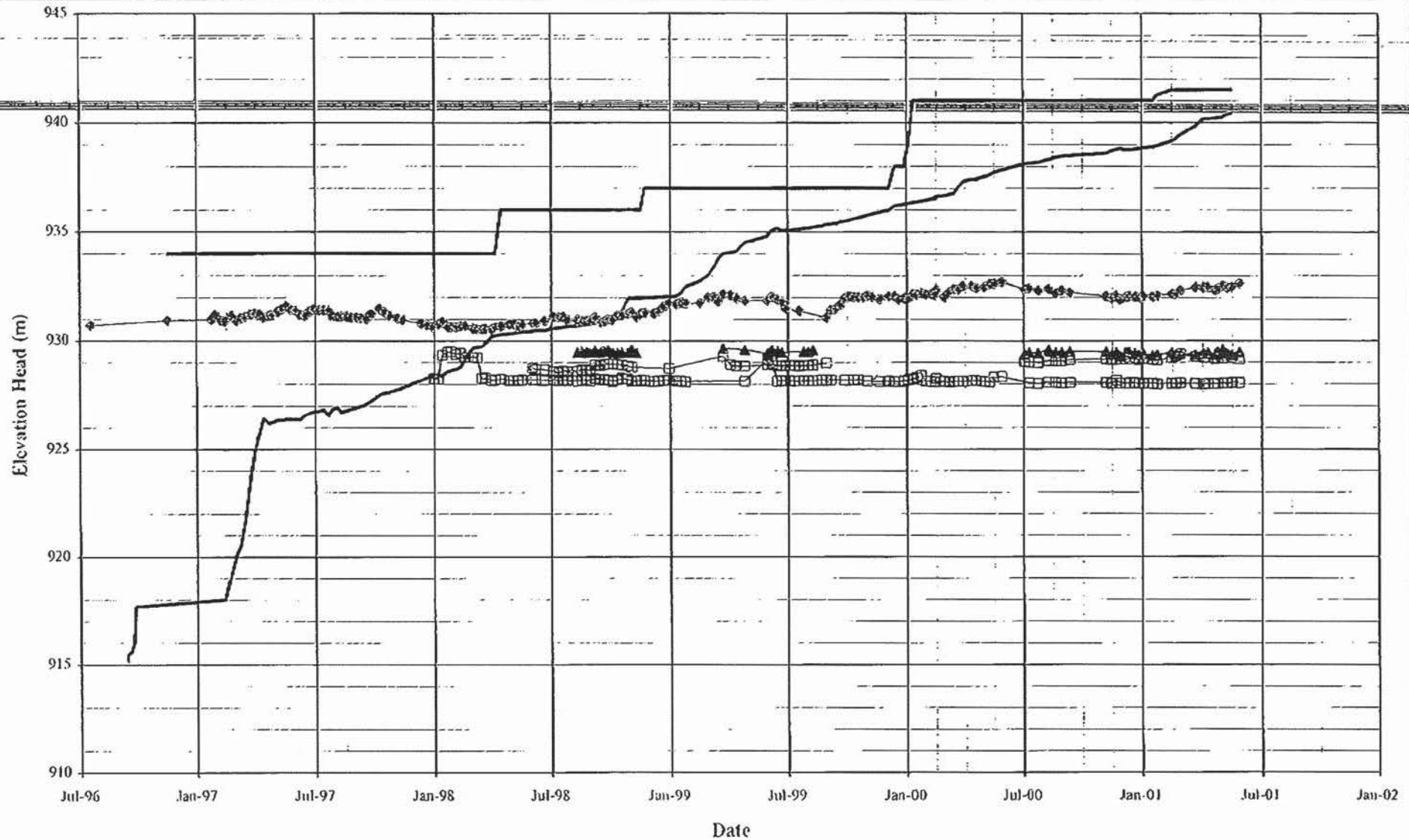
PLANE C PIEZOMETERS

GRAPH OF ELEVATION vs. TIME

Knight Piésold
 CONSULTING

PROJECT NO.	REV. NO.	REV
11162/14		

FIGURE 5.3



— Pond Level

— Fill Elevation

—○— D1-PE1-02

—▲— D2-PE1-01

—◆— D2-PE2-01

—□— D2-PE2-02

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

PLANE D PIEZOMETERS

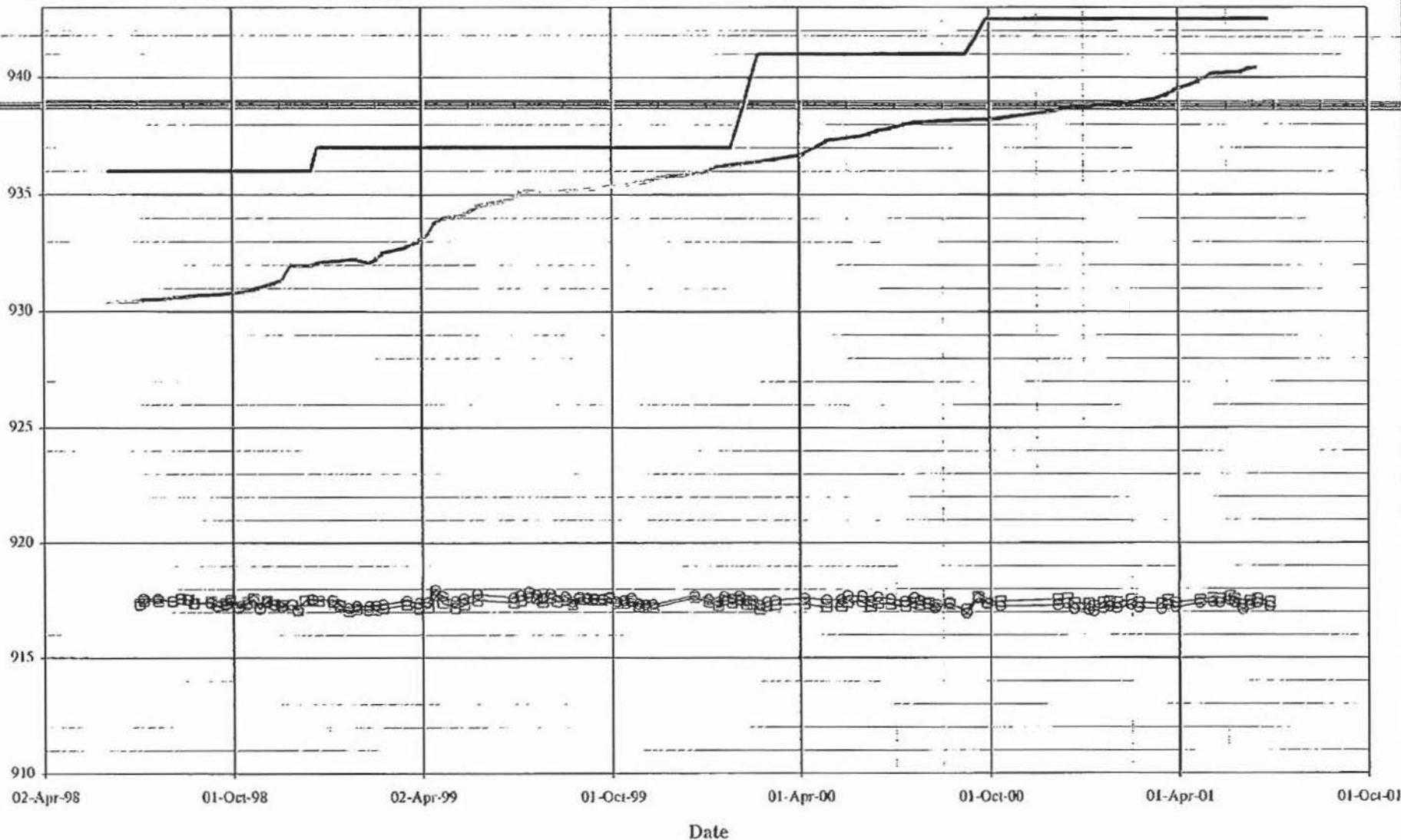
GRAPH OF ELEVATION vs. TIME

Knight Piésold
 CONSULTING

PROJECT NO. 11162/14	REF NO.	REV
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FIGURE 5.4

Elevation Head (m)



— Pond Level — Fill Elevation
 —□— E2-PE2-01 —○— E2-PE2-02

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

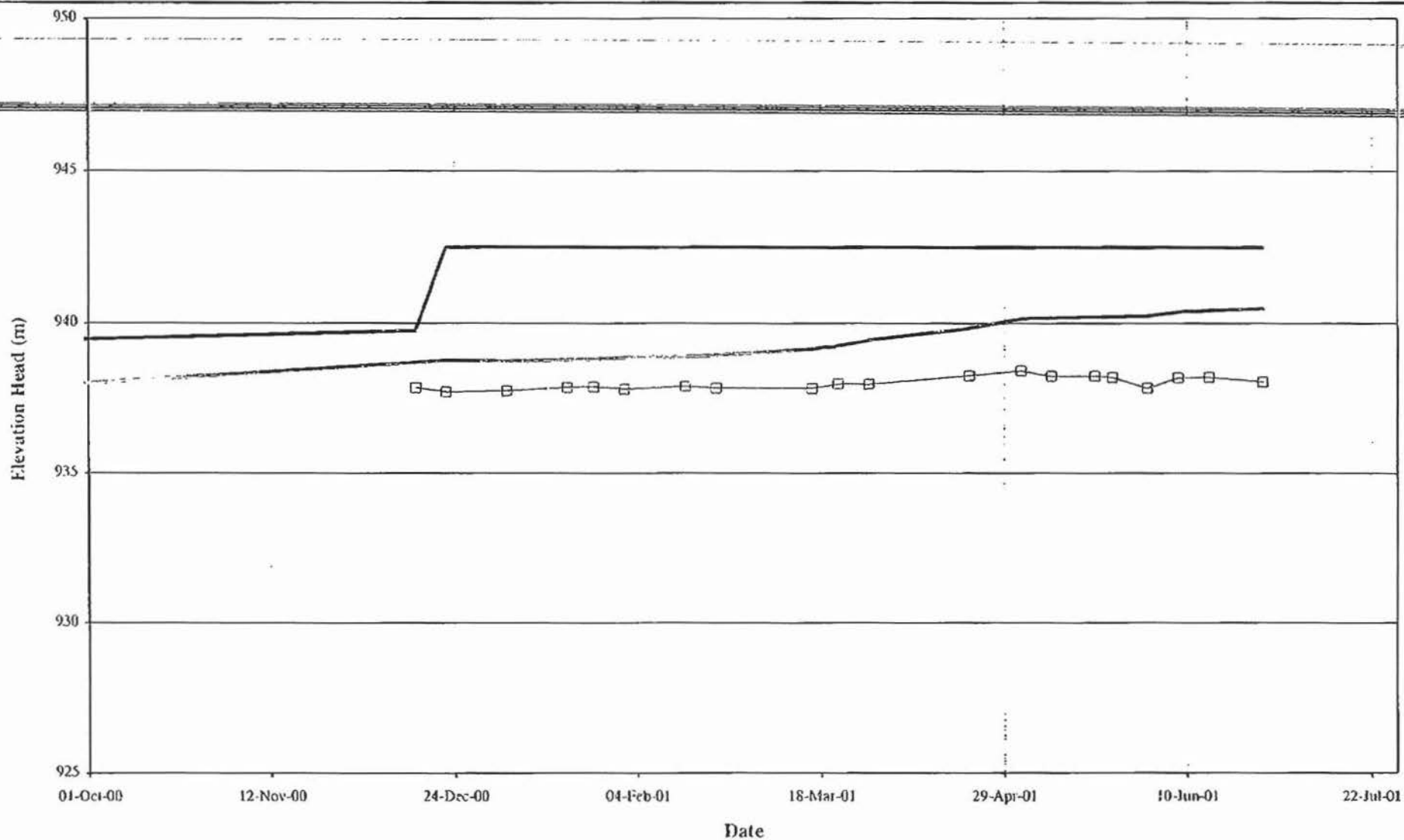
PLANE E PIEZOMETERS

GRAPH OF ELEVATION vs. TIME

Knight Piésold
CONSULTING

PROJECT NO. 11162/14	REF. NO.	REV
-------------------------	----------	-----

FIGURE 5.5



Pond Level

Fill Elevation

F2-PE2-01

MOUNT POLLEY MINING CORPORATION

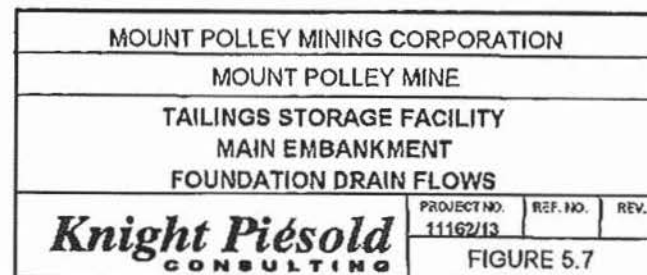
MOUNT POLLEY MINE

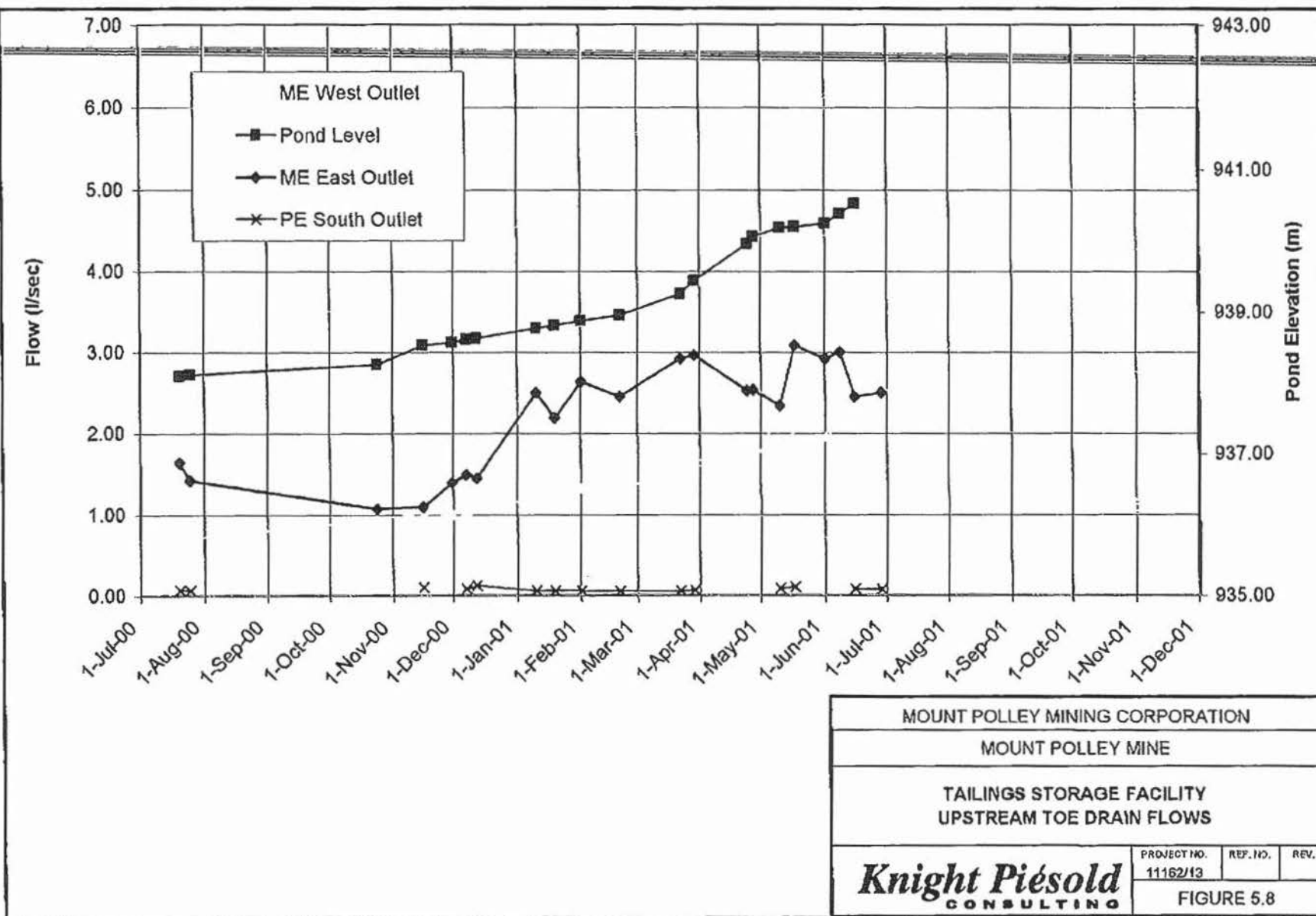
TAILINGS STORAGE FACILITY
 PLANE F PIEZOMETERS
 GRAPH OF ELEVATION vs. TIME

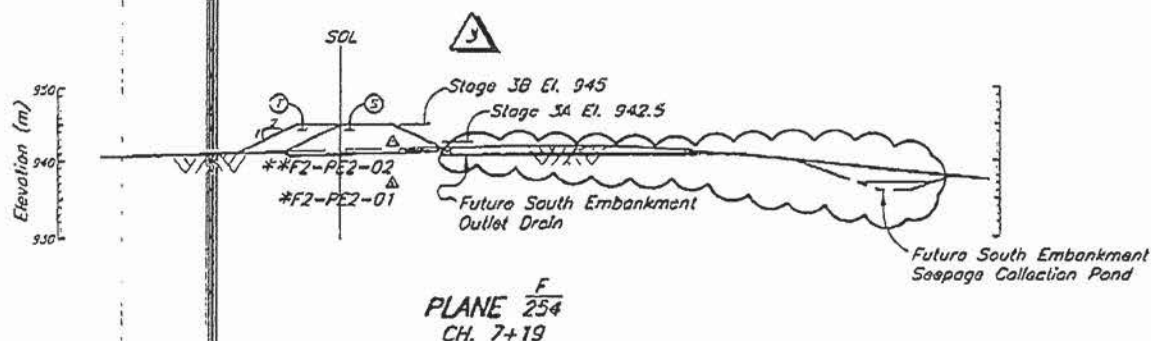
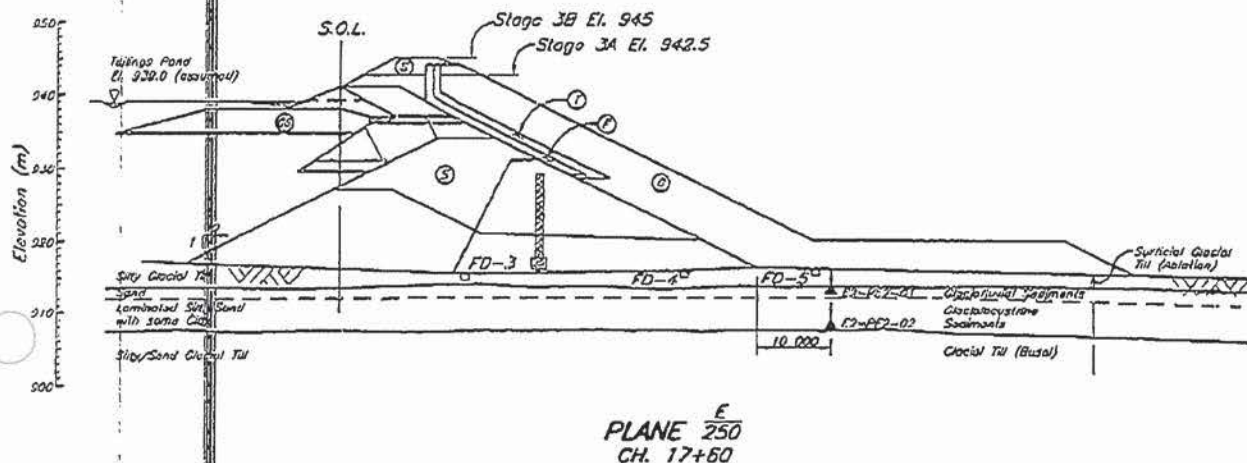
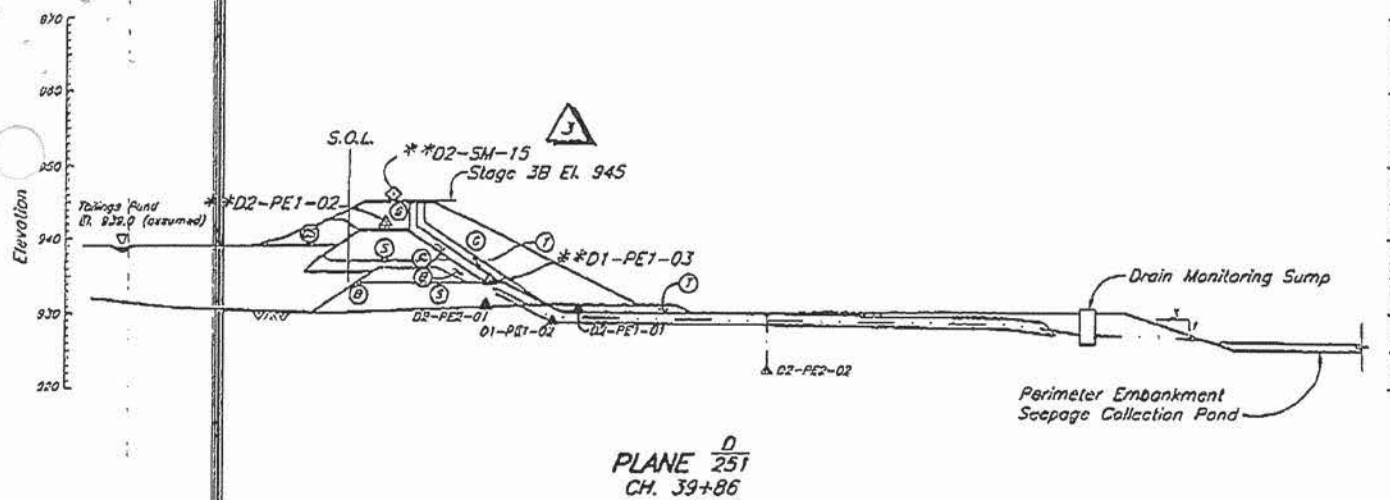
Knight Piésold
 CONSULTING

PROJECT NO. 11162/14	REF. NO.	REV.
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FIGURE 5.6



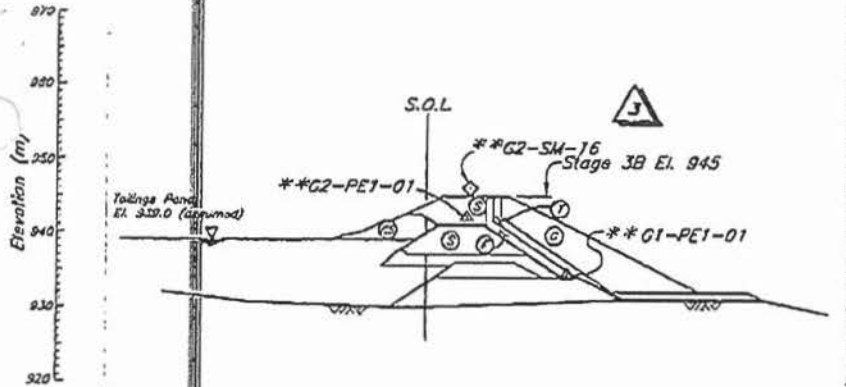




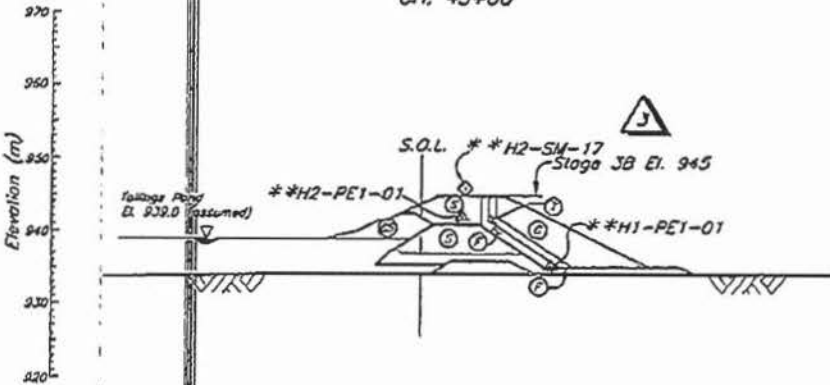
3 TAILINGS EMBANKMENT	INSTRUMENTATION SUMMARY OF INSTALLATION & TYPICAL DETAILS
STAGE 3 TAILINGS EMBANKMENT	SOUTH EMBANKMENT - INSTRUMENTATION PLAN
STAGE 3 PERIMETER EMBANKMENT	INSTRUMENTATION PLAN
STAGE 3 TAILINGS EMBANKMENT	MAIN EMBANKMENT - INSTRUMENTATION PLAN

3	08MAY'01	ISSUED FOR
2	28JAN'01	STAGE 3B
1	20OCT'00	PERIMETER
0	2JUN'00	ISSUED FOR

STATE OF TEXAS	COMMISSIONER OF THE GENERAL LAND OFFICE	DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D	REV.	DATE	REVISIONS
REFERENCE DRAWINGS			REVISIONS									



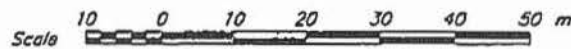
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CH. 43+00



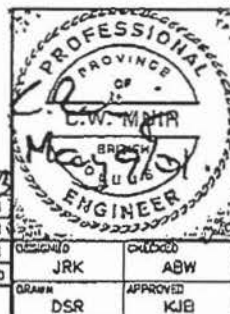
PLANE $\frac{H}{251}$
CH. 36+00

NOTE

1. See Org. No. 11162-13-256 for Summary of Instrumentation Installations, Typical Details, General Notes and Legend.
2. Instrumentation with one asterisk indicates placement during Stage 3A construction. Instrumentation with 2 asterisks indicate placement during Stage 3B construction.



STAGE 3B TENDER	CWM	CSR	JRK	DTA
3 - CREST ELEVATION 945	JRK	AW	JMTW	KJB
ER EMBANKMENT SECTIONS ADDED	JRK	NSO	JMTW	KJB
OR CONSTRUCTION	JRK	TAM	ABW	KJB
DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
REVISIONS				



MOUNT POLLEY MINING CORPORATION	
MOUNT POLLEY MINE	
TAILINGS STORAGE FACILITY	
STAGE 3 TAILINGS EMBANKMENT	
INSTRUMENTATION	
SECTIONS - SHEET 2 OF 2	
Knight Piésold	CONSULTING
SCALE AS SHOWN	REVISION 3
DRAWING NO.	11162-13-259

AND FILE: M:\11162-13-259\Drawings\Stage 3 Tailings Embankment Instrumentation.dwg 1-2001 RLE 1-11-01 May 4, 2001 and

14745-40 / MTP0/01
68:51 10. 01 701**Knight Piésold**
CONSULTINGMount Polley Site Office Fax: (250) 790-2268
www.knightpiesold.com

DATE: July 10, 2001

FILE NO.: 11162/14.F01/F02/
/F04/F05/F08

TIME:

REF NO.: 01-21

OPERATOR:

PAGES: 1 of 19

SENDER: Wilson Muir

TO: Ministry of Energy and Mines, Victoria B.C. FAX: 250-952-0481

ATTN: Chris Carr

CC: Ken Brouwer, KP Vancouver
Don Parsons / Eric LeNeve, MPMC Site

SUBJECT: Progress Report No. 13

Dear Mr. Carr,

Please find enclosed a copy of Progress Report No. 13 from July 2 to July 8, 2001. If you have any questions, please do not hesitate to contact me on site or Ken Brouwer in our Vancouver office.

Regards,



C. Wilson Muir, P.Eng.
Resident Engineer
Knight Piésold Consulting

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Knight Piésold
CONSULTING**MOUNT POLLEY MINING CORPORATION**
MOUNT POLLEY MINE**TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION**
PROGRESS REPORT NO. 13 - JULY 2 TO JULY 8, 2001**SECTION 1.0 - GENERAL**

Mount Polley Mining Corporation (MPMC) continued Stage 3B construction activities. Knight Piésold Ltd. (KP) carried out QA/QC activities during the reporting period.

The scope of work includes placement of Zones S, F, T and C to El. 942.5 m on the Perimeter Embankment (Ch. 28+00 to 44+50). MPMC is carrying out this work with the exception of filter sand hauling between the millsite and the TSF, which is being completed by sub-contractors.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- Wilson Muir, Resident Engineer.

The following MPMC personnel were on site during the reporting period:

- Don Parsons Mine Superintendent
- Eric LeNeve Tailings Coordinator
- Charlie O'Hara General Foreman
- Don Jameson Site Foreman
- Ron Gale Site Foreman

1.2 CONTRACT DEVELOPMENTS

MPMC chose Lake Excavating Ltd., of Williams Lake, B.C., to place the latest crush pile of Zone F. Geotech Drilling Ltd., of Prince George, B.C. was selected to install two slope inclinometers at the downstream toe of the Main Embankment.

1.3 DESIGN DEVELOPMENTS

MPMC announced a shut down of mine operations for the end of September on Friday June 29, 2001. The mine will go on Care and Maintenance following the shut down. The water balance was reviewed following this announcement. As a result of this analysis, it was found that a final TSF elevation of 942.5 m at all embankments is adequate through the freshet of 2002. A spillway design will be completed by Knight Piésold in the coming weeks.

Knight Piésold
CONSULTING

The Main and South Embankments require no further work as a result of the planned shut down. A modified Perimeter Embankment construction to El. 942.5 m is currently being evaluated to minimize expenditures.

1.3 WEATHER

Conditions were generally sunny with cloudy periods during the reporting period. Maximum daytime highs reached about +21 °C and nightly lows sank to as low as +7°C.

1.4 SAFETY

No safety incidents were reported over the reporting period.

SECTION 2.0 - TAILINGS FACILITY OPERATION AND MAINTENANCE

Tailings were spigotted along the Main Embankment crest during the reporting period at approximate Chainage 17+00. It is anticipated that tailings will form a substantial beach upstream of the ridge between the Main and South Embankments by discharging at this location.

The Tailings Pond remains a significant distance from the Perimeter Embankment.

SECTION 3.0 - CONSTRUCTION ACTIVITIES**3.1 EQUIPMENT**

MPMC used the following equipment over the reporting period:

- Excavators: 1 Hitachi EX 270, 1 Caterpillar 235
- Haul Trucks: 3 Caterpillar 777 85T
- Loaders: 1 Caterpillar 992
- Dozers: 1 Caterpillar D7G, 1 Caterpillar D8R, 1 Caterpillar D6, 1 Caterpillar D8K
- Compactors: 1 Caterpillar CS 563 10T vibratory smooth drum
- Graders: 1 Caterpillar 14G
- Service and fuel trucks
- Lake Excavating: 4 highway dump trucks and Caterpillar 966 loader
- Geotech Drilling: 1 Mobile C59 ODEX truck mounted drill and service truck

MPMC carried out the following activities during the reporting period:

- Crushing of Zone F material at the millsite.
- Placement of Zone F fill, Perimeter Embankment: Ch. 39+00 to 40+00, El. 931 to 940 m and Ch. 34+00 to 37+00, El. 935 to 940 m.
- Placement of Zone T fill, Perimeter Embankment: Ch. 34+00 to 37+00, El. 936 to 940.5 m.
- Development of the Rock Borrow for Zones T and C materials.
- Drilling and installation of Slope Inclimeters SI-01-01 and 02

Knight Piésold
CONSULTING

Zones T and C were supplied from the Rock Borrow, while Zone F was delivered from the crushed stockpile at the millsite. Zone F was placed up the slope on top of the existing Zone S in a 1 metre thick lift, while Zone T was placed upon Zone F in a 1 metre thick lift.

SECTION 4.0 - KNIGHT PIÉSOLD ACTIVITIES**4.1 GENERAL**

KP activities over the reporting period included the following:

- Monitoring and inspection of fill placement of Zones F and T.
- Submission of daily summaries of QA/QC and construction activities to MPMC.
- Control and Record sampling and testing of embankment fill materials.
- Ongoing discussions and correspondence with MPMC and KP Vancouver with regard to current and future design.
- Preparation of progress reports.
- Geotechnical logging of drill holes for slope inclinometers.

4.2 Laboratory Testing

The following samples were processed during the reporting period:

- C-ZF-37, 38, 39, 40 and 41

Control samples C-ZF-37, 38 and 39 from the latest filter sand crush failed the grain size specification. The pile was thoroughly mixed with a dozer following this testing. Subsequent control samples C-ZF-40 and 41 met the grain size specification and the pile was approved for fill placement.

All tests carried out during the reporting period are presented in the attached tables and figures.

SECTION 5.0 - MONITORING**5.1 GENERAL**

Instrumentation was monitored during the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

5.2 VIBRATING WIRE PIEZOMETERS

No new piezometers were installed over the reporting period.

Piezometer readings are taken on a weekly basis. The results from the monitoring are shown on Figures 5.1 to 5.7. Locations of the piezometers are presented on the attached Drawings.

Knight Piésold
CONSULTINGFoundation Piezometers

No substantial changes were noted in the remaining foundation piezometers.

Fill Piezometers

The majority of the Main Embankment glacial till piezometers responded to construction of the overlying Stage 3A fills with increasing pore pressures. These piezometers are now fully dissipated, as a constant, horizontal trend has been showing for some time now.

Two piezometers located within the Stage 1A glacial till fill have historically registered anomalous values, and warrant discussion.

Piezometer B2-PE2-03 reacted strongly to fill placement during initial construction. Pore pressures did not dissipate in the periods following fill placement, but remained constant. This is in direct contrast to other instruments located nearby. This trend changed in 1999, when B2-PE2-03 began to show dissipation at the completion of fill placement. This new trend has been repeated three times, with approximately the same dissipation rate after each stage of construction, with an increase in pore pressure between 50 and 100% of the increase in total stress. It appears that drainage paths were limited in the fill around this piezometer and pore pressures are still equilibrating.

Piezometer C2-PE2-05 is also located in the Stage 1A glacial till fill. This instrument historically showed little or no reaction to construction, but indicated a slow, steady increase in pore pressure over time. This suggests that pore pressures in the fill around C2-PE2-05 are reaching a steady state condition as the phreatic surface moves through the fill. It should be noted that the pressure head registered by this piezometer is approximately 10 m. This is similar to other piezometers located in comparable locations in the glacial till fill.

Drain Piezometers

All drain piezometers have remained static and at very low head indicating free draining conditions within the embankment drainage systems.

Tailings Piezometers

Water levels at the tailings piezometers continue to mimic the pond level, except at the Main Embankment, where the upstream toe drain has resulted in a depressed phreatic surface.

5.3 DRAIN FLOWS

Drains flows were recorded on July 6, 2001. The results from the foundation drains and upstream toe drain are shown on Figures 5.8 and 5.9.

Knight Piésold
CONSULTING**5.4 SLOPE INCLINOMETERS**

As mentioned above, slope inclinometers SI-01-01 and 02 were installed during the reporting period. SI-01-01 was drilled to approximately 29 metres and the inclinometer was installed to an approximate depth of 28 metres. SI-01-02 was drilled to approximately 25 metres and the inclinometer was installed to an approximate depth of 24 metres. SPT testing was carried out and chips from the drill were examined to log the boreholes. Six inch steel casing was left in the upper 6 metres of each hole to protect the inclinometer casing from the settlement of coarse rockfill and to minimize the amount of grout required to anchor the inclinometer casing.

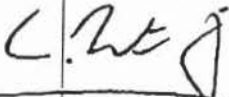
The equipment to monitor, record and evaluate the data from the slope inclinometers will be on site soon. Exact depths of the inclinometers will be determined and calibration measurements will be carried out at that time.

SECTION 6.0 - ONGOING ITEMS

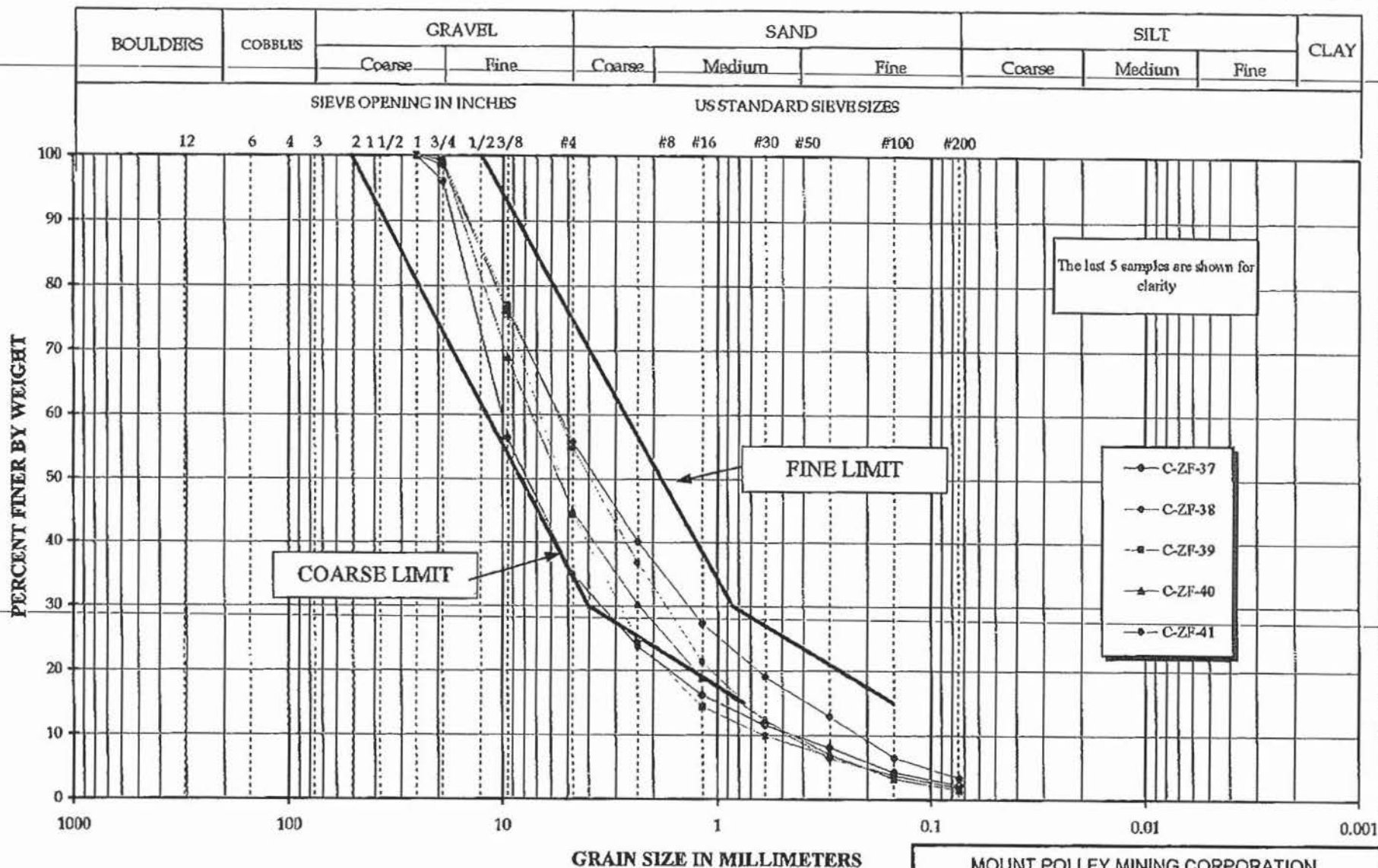
The following items will be addressed during upcoming reporting periods:

- MPMC will continue to construct the Stage 3B Perimeter Embankment to El. 942.5 m.
- The slope inclinometers will be measured and calibrated.
- KP will continue to provide QA/QC and site supervision activities in accordance with the technical specifications.

Submitted by,


C. Wilson Muir, P.Eng.
Resident Engineer
Knight Piésold Consulting.

Distribution: Eric LeNeve, Tailings Coordinator, MPMC Site
Don Parsons, Mine Superintendent, MPMC Site
Chris Carr, Ministry of Energy and Mines, Victoria, B.C.
Ken Brouwer, KP Vancouver

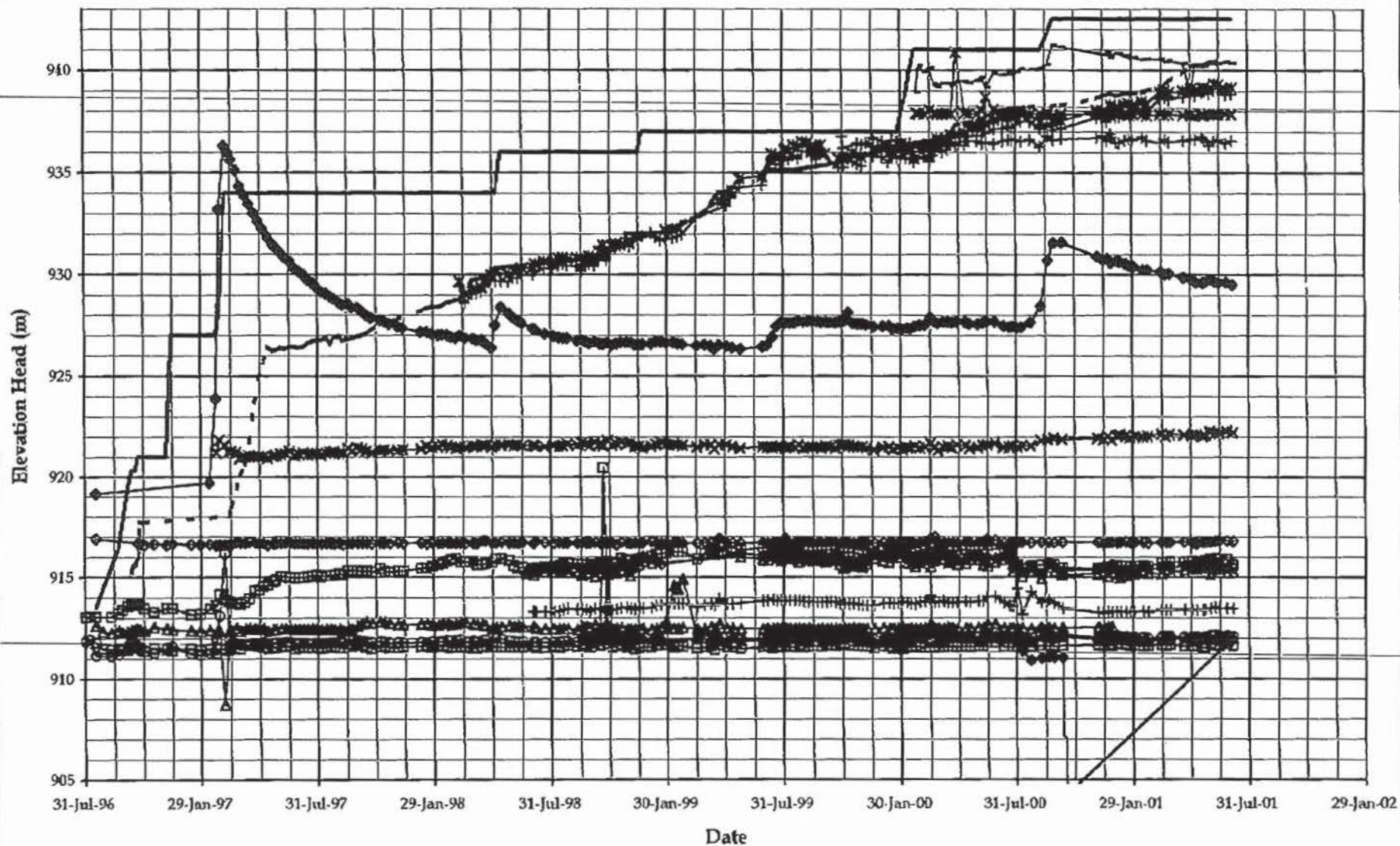


MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY - STAGE 3B
CONSTRUCTION - ZONE F CONTROL SAMPLES
GRADATION CURVES

Knight Piésold
CONSULTING

PROJECT NO. 11162/14	REF. NO.	REV.
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FIGURE 4.1



□ Pond Level	— Fill Elevation	—*— A0-PE2-01	—+— A0-PE2-02
—△— A1-PE1-01	—□— A1-PE1-02	—◇— A1-PE1-03	—▲— A2-PE1-01
—■— A2-PE2-01	—○— A2-PE2-02	—◆— A2-PE2-03	—×— A2-PE2-05
—▲— A2-PE2-06	—◇— A2-PE2-07	—+— A2-PE2-08	—+— A1-PE1-04
—■— A2-PE1-02	—×— A0-PE1-01	—◆— A2-PE1-03	

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

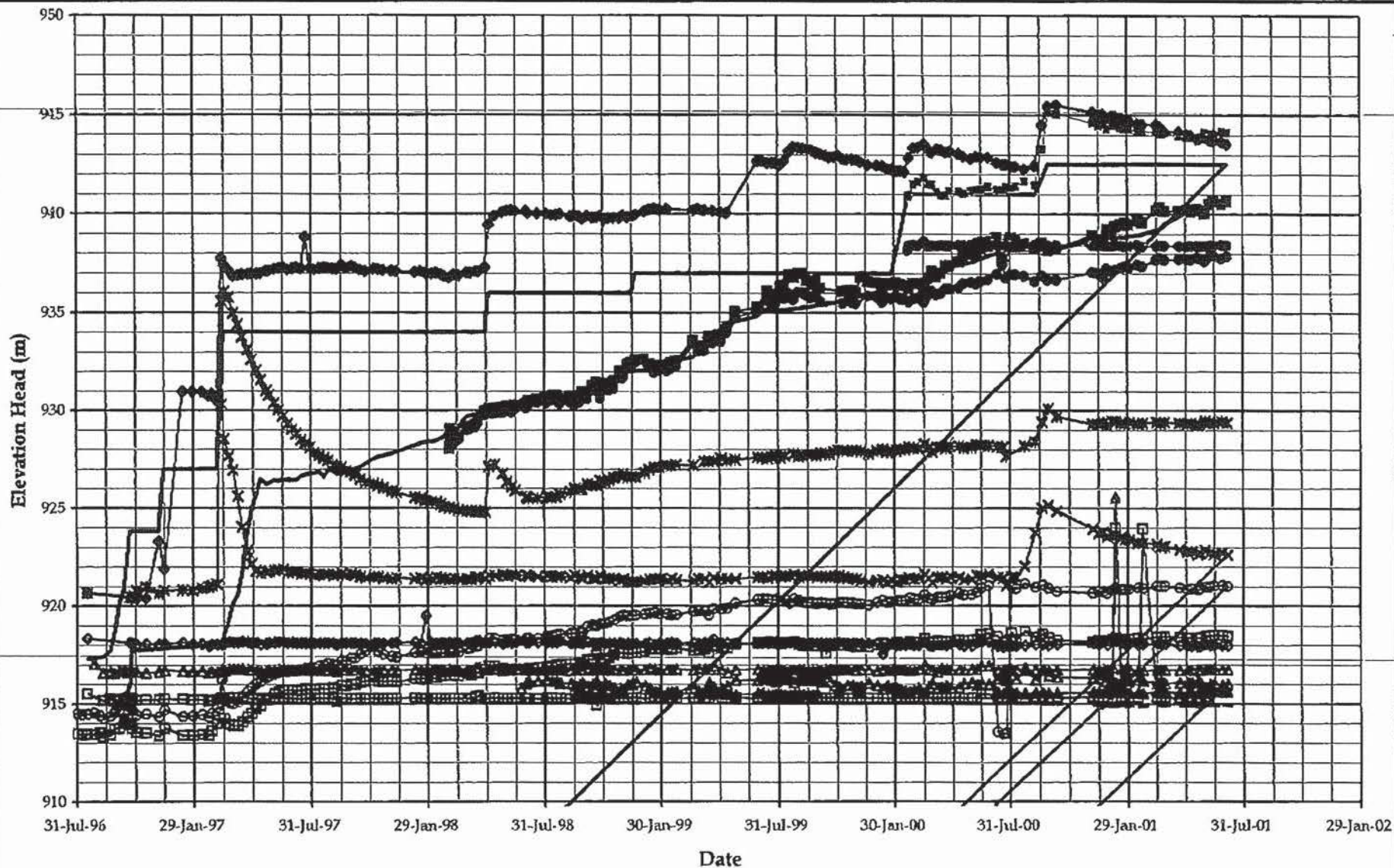
PLANE A PIEZOMETERS

GRAPH OF ELEVATION VS. TIME

Knight Piésold
CONSULTING

PROJECT NO. 11162/14	REF. NO.	REV.
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FIGURE 5.1



— Pond Level	— Fill Elevation	■ B0-PE2-01	◆ B0-PE2-02	▲ B1-PE2-01
□ B1-PE1-01	◆ B1-PE1-03	▲ B2-PE1-01	□ B2-PE2-01	○ B2-PE2-02
◆ B2-PE2-03	✱ B2-PE2-04	✱ B2-PE2-05	▲ B2-PE2-06	◆ B0-PE1-01
■ B2-PE1-02	• B2-PE1-03			

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

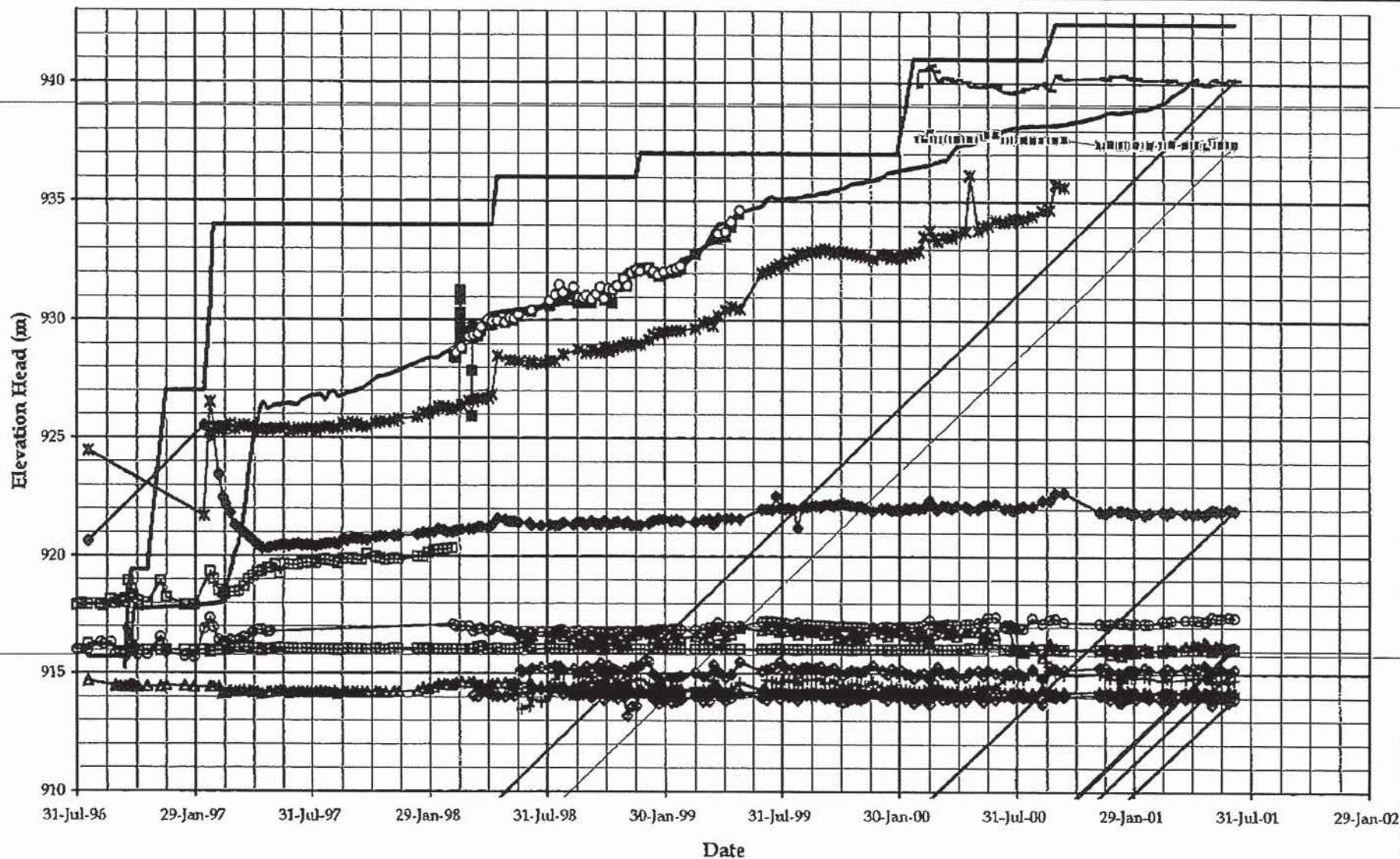
PLANE B PIEZOMETERS

GRAPH OF ELEVATION vs. TIME

Knight Piésold
CONSULTING

PROJECT NO. 11162/14	REF. NO.	REV.
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FIGURE 5.2



— Pond Level	— Fill Elevation	■ C0-PE2-01	○ C0-PE2-02	▲ C1-PE1-01
□ C1-PE1-02	◇ C1-PE1-04	▲ C2-PE1-01	□ C2-PE2-01	○ C2-PE2-02
◆ C2-PE2-03	* C2-PE2-05	▲ C2-PE2-06	◇ C2-PE2-07	+ C2-PE2-08
— C0-PE1-01	— C2-PE1-02	- C2-PE1-03		

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

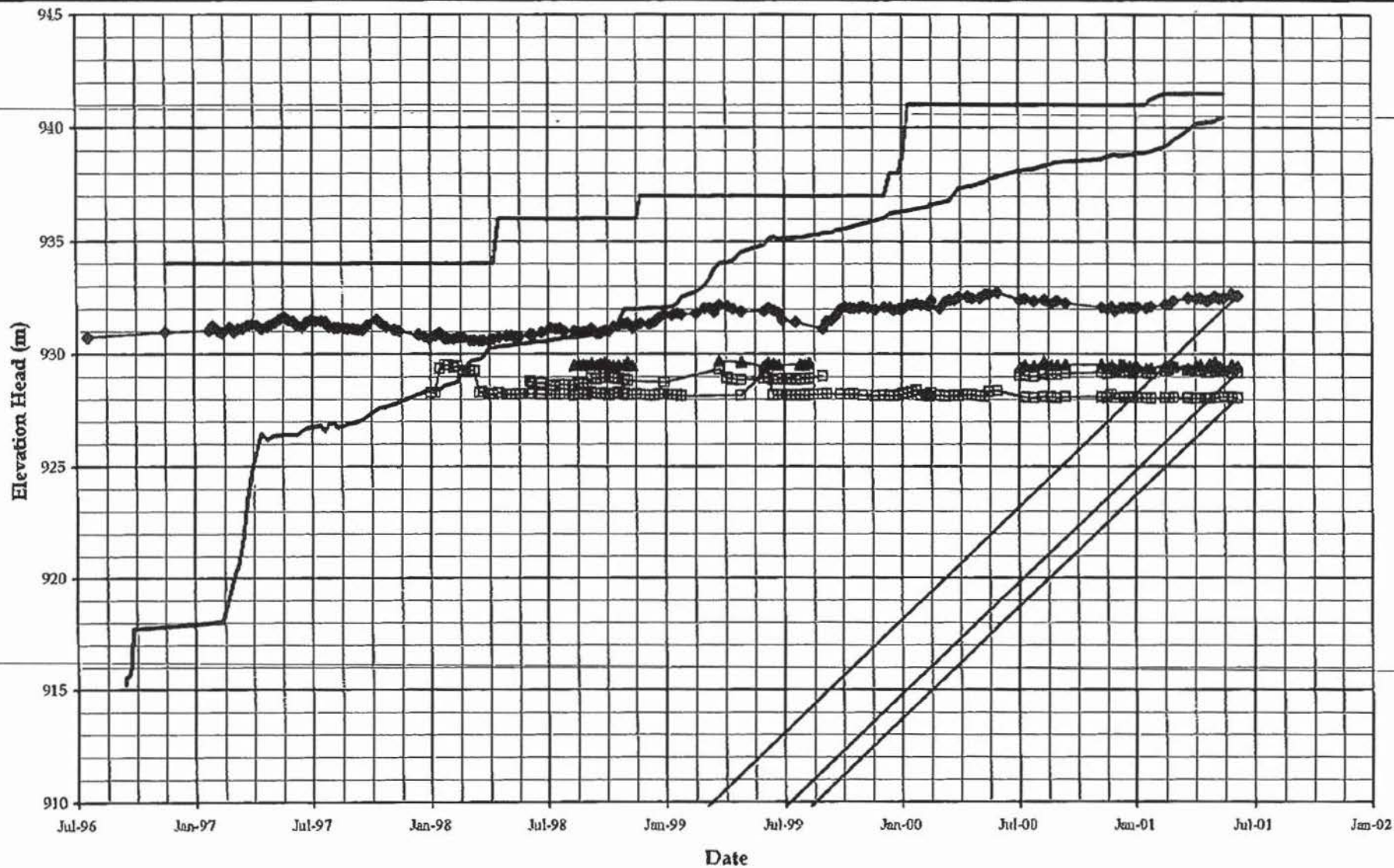
PLANE C PIEZOMETERS

GRAPH OF ELEVATION vs. TIME

Knight Piésold
CONSULTING

PROJECT NO. 11162/14	REF. NO.	REV.
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FIGURE 5.3



— Pond Level — Fill Elevation □ D1-PE1-02
 ▲ D2-PE1-01 ◆ D2-PE2-01 □ D2-PE2-02

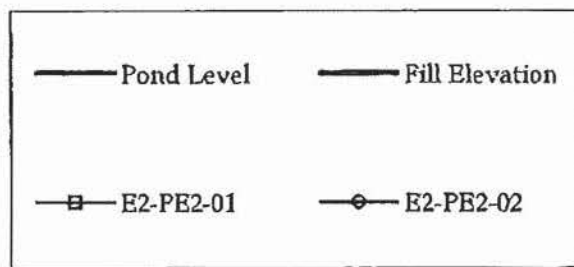
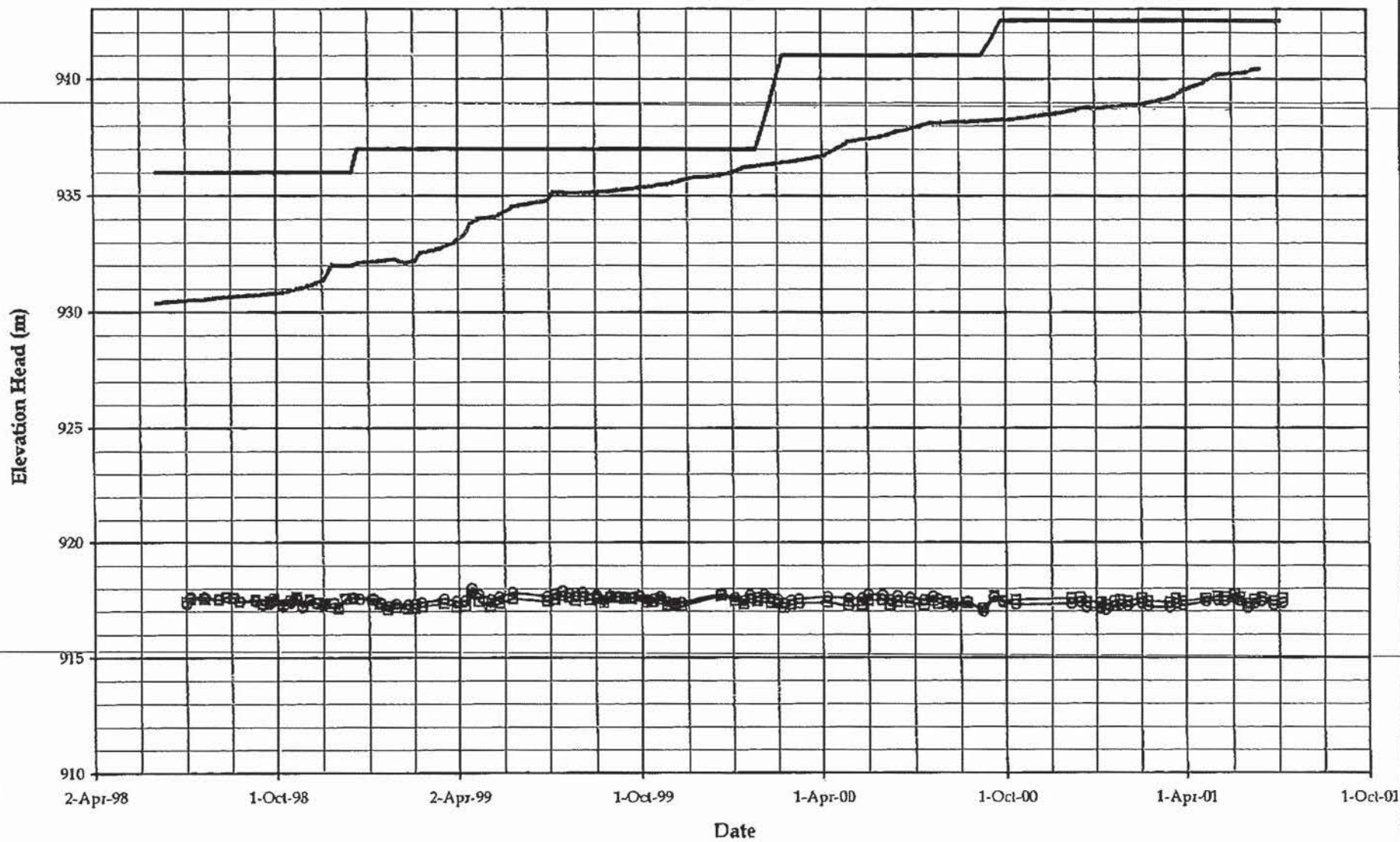
MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

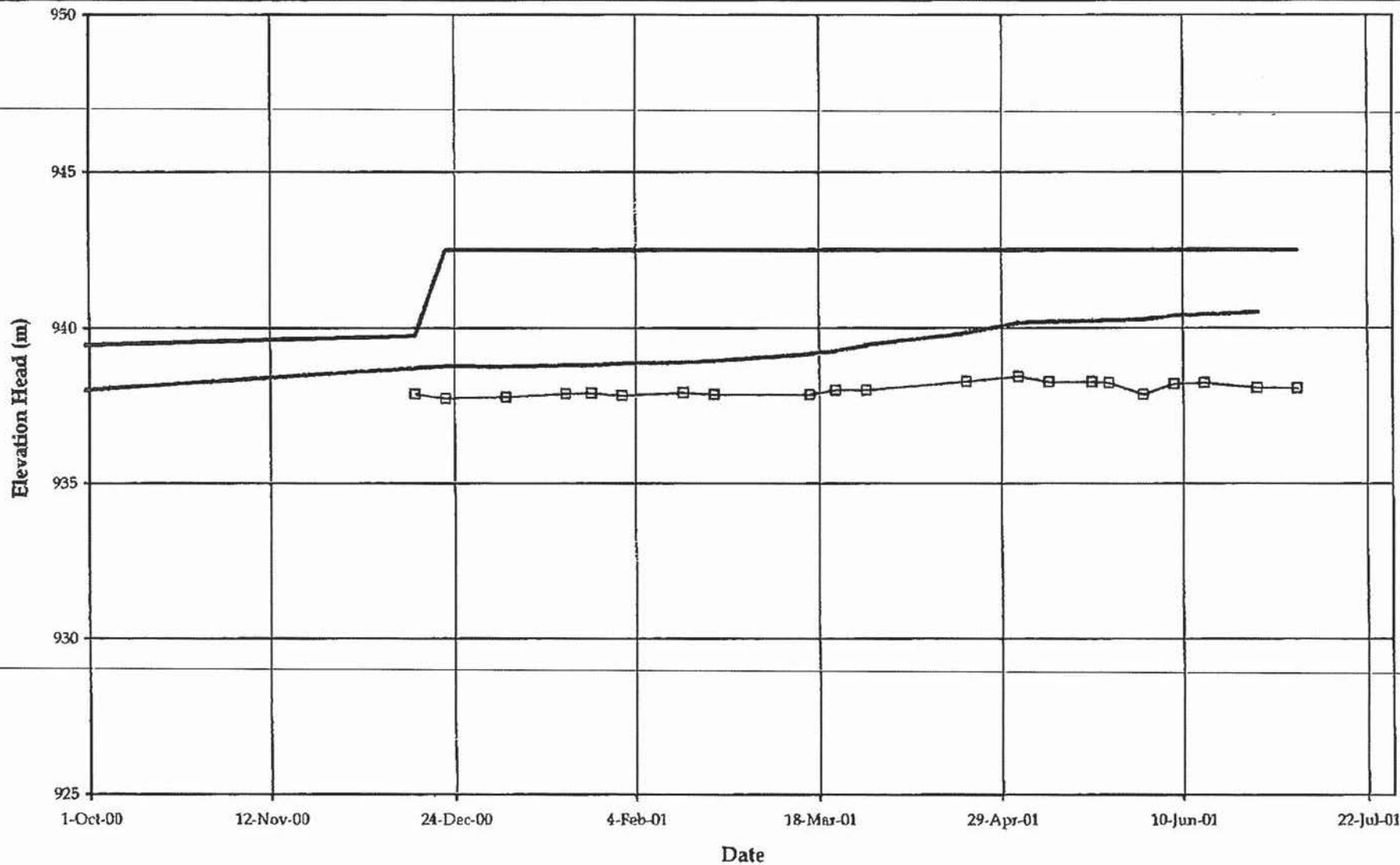
TAILINGS STORAGE FACILITY
 PLANE D PIEZOMETERS
 GRAPH OF ELEVATION vs. TIME

Knight Piésold
CONSULTING

PROJECT NO. 11162/14	REF. NO.	REV.
FIGURE 5.4		



MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY		
PLANE E PIEZOMETERS		
GRAPH OF ELEVATION vs. TIME		
Knight Piesold CONSULTING	PROJECT NO. 11152/14	REF. NO. REV.
	FIGURE 5.5	



— Pond Level

— Fill Elevation

—□— F2-PE2-01

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
PLANE F PIEZOMETERS
GRAPH OF ELEVATION vs. TIME

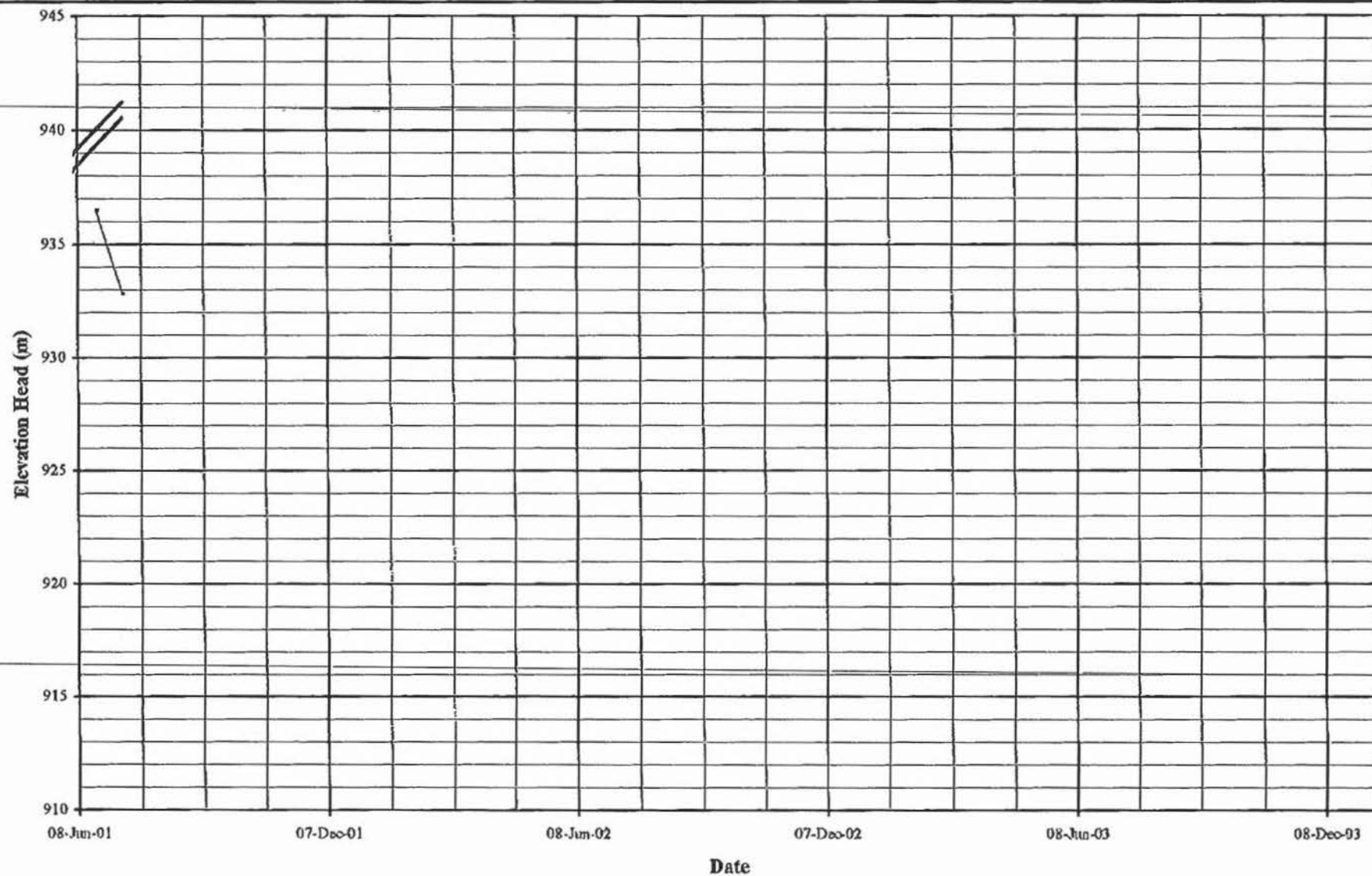
Knight Piésold
CONSULTING

PROJECT NO.
11162/14

REF. NO.

REV.

FIGURE 5.6



— Pond Level

— Fill Elevation

— H1-PE1-01

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

PLANE H PIEZOMETERS

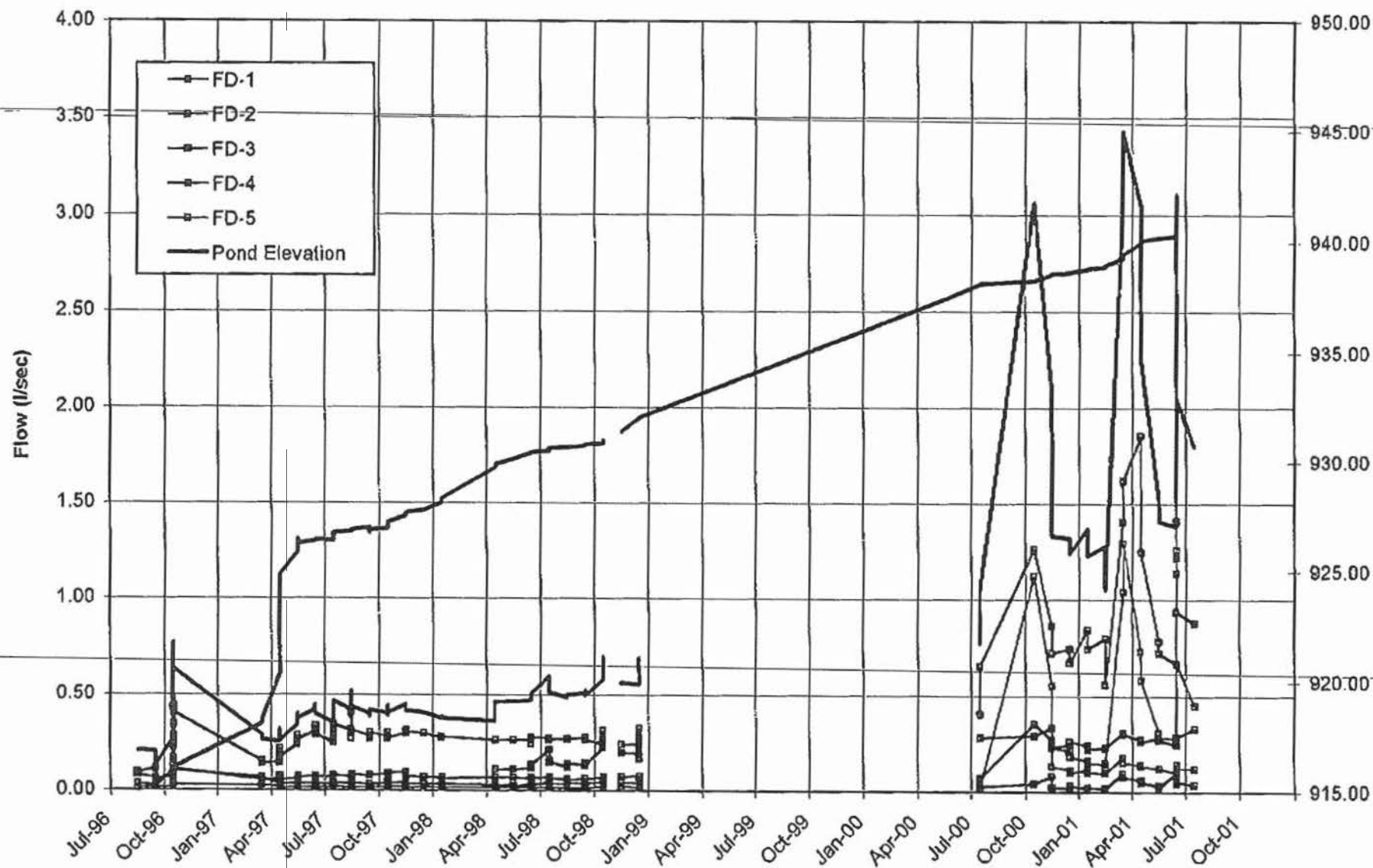
GRAPH OF ELEVATION vs. TIME

Knight Piésold
 CONSULTING
PROJECT NO.
11152/14

REF. NO.

REV.

FIGURE 5.7



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

MAIN EMBANKMENT

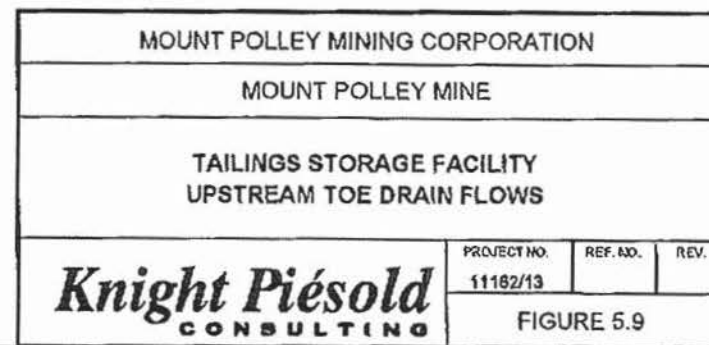
FOUNDATION DRAIN FLOWS

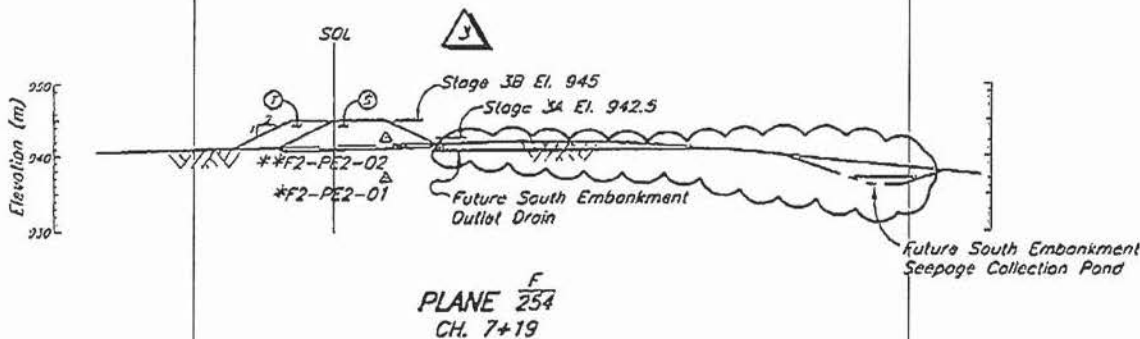
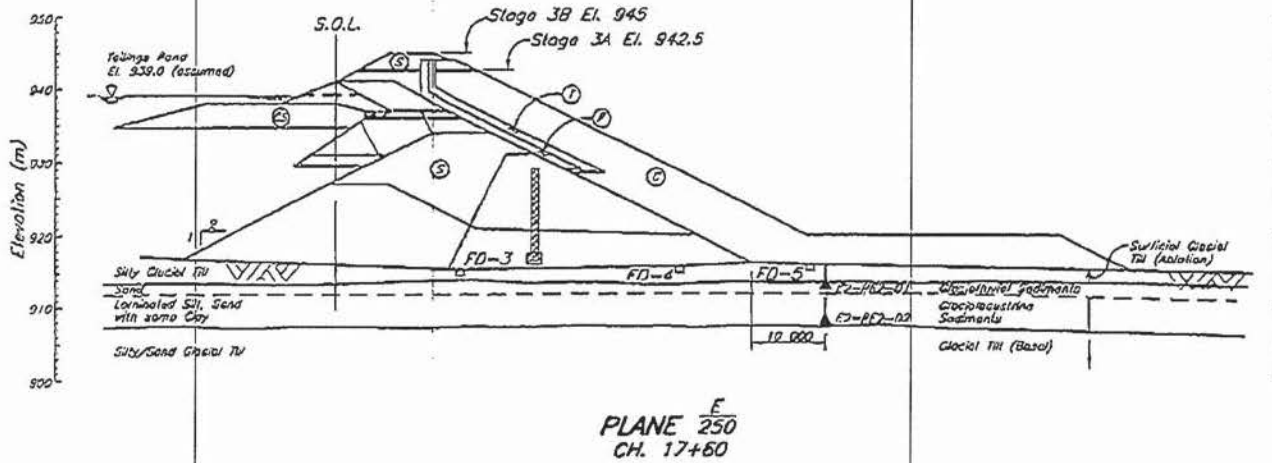
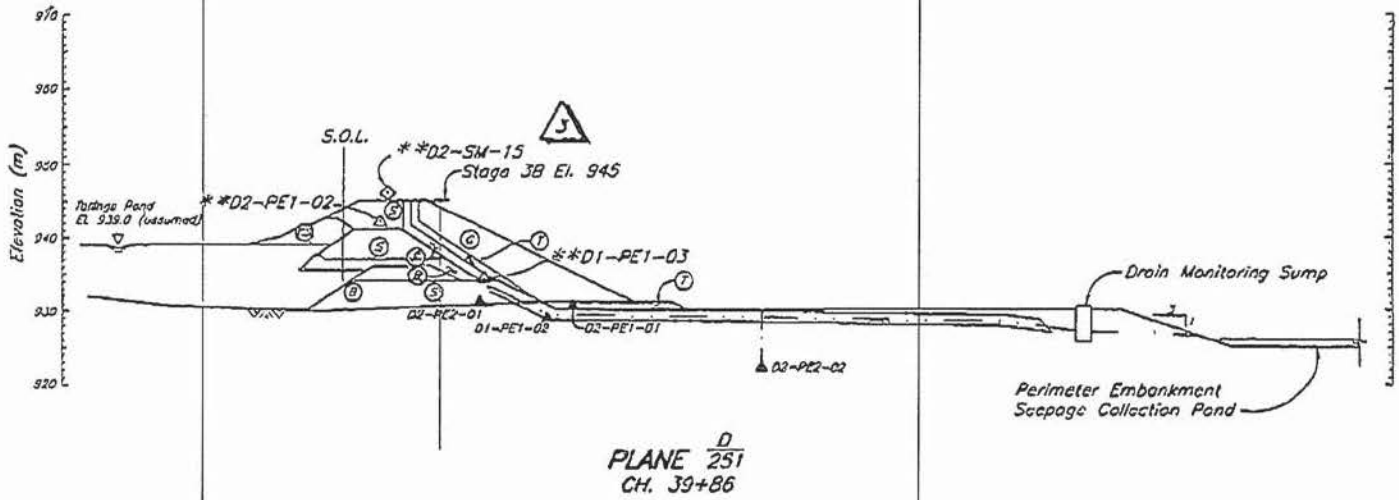
Knight Piésold
 CONSULTING
PROJECT NO.
11162/13

REF. NO.

REV.

FIGURE 5.8

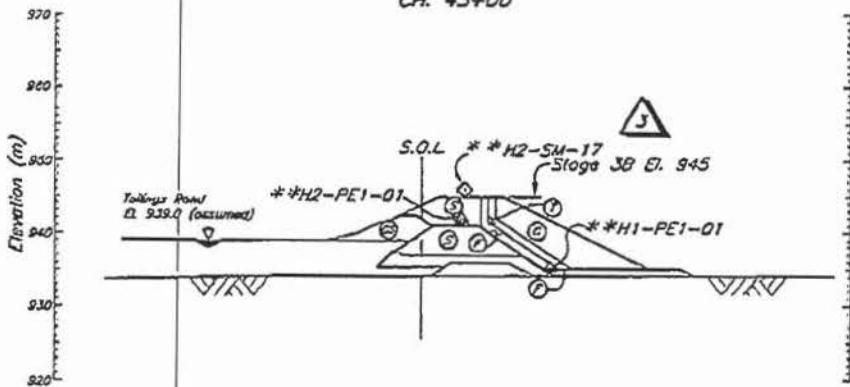




STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION SUMMARY OF INSTALLATION & TYPICAL DETAILS
STAGE 3 TAILINGS EMBANKMENT - SOUTH EMBANKMENT - INSTRUMENTATION PLAN
STAGE 3 PERIMETER EMBANKMENT - INSTRUMENTATION PLAN
STAGE 3 TAILINGS EMBANKMENT - MAIN EMBANKMENT - INSTRUMENTATION PLAN

3	08MAY'01	ISSUE
2	26JAN'01	STAGE
1	20OCT'00	PERIMETER
0	2JUN'00	ISSUED FOR

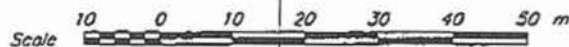
DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK'D	APP'D	REV.	DATE
REFERENCE DRAWINGS			REVISIONS						



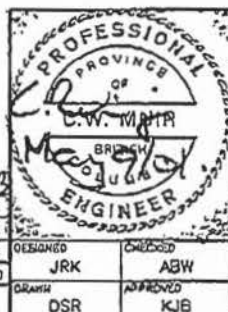
PLANE $\frac{G}{251}$
CH. 43+00

PLANE $\frac{H}{251}$
CH. 36+00

1. See Drg. No. 11162-13-256 for Summary of Instrumentation Installations, Typical Details, General Notes and Legend.
2. Instrumentation with one asterisk indicates placement during Stage 3A construction. Instrumentation with 2 asterisks indicate placement during Stage 3B construction.



FOR STAGE 3B TENDER		CWM	DSR	JRK	EB
IB - CREST ELEVATION 945		JRK	AW	JMTW	KJB
TER EXHANGMENT SECTIONS ADDED		JRK	NSD	JMTW	KJB
FOR CONSTRUCTION		JRK	TAM	ABW	KJB
DESCRIPTION		DESIGN	DRAWN	CHECKED	APPROVED
REVISIONS					



TAILINGS STORAGE FACILITY
STAGE 3 TAILINGS EMBANKMENT
INSTRUMENTATION
SECTIONS - SHEET 2 OF 2

Knight Piésold
CONSULTING

SCALE	AS SHOWN	REVISION
		3
DRAWING NO.		
11162-13-259		

Knight Piésold
CONSULTING

Mount Polley Site Office Fax: (250) 790-2268
www.knightpiésold.com

DATE: July 17, 2001 FILE NO.: 11162/14.F01/.F02/
 TIME: REF NO.: /F04/.F05/.F08
 01-22
 OPERATOR: PAGES: 1 of 24
 SENDER: Wilson Muir

TO: Ministry of Energy and Mines, Victoria B.C. FAX: 250-952-0481
 ATTN: Chris Carr
 CC: Ken Brouwer, KP Vancouver
 Don Parsons / Eric LeNeve, MPMC Site
 SUBJECT: Progress Report No. 14

Dear Mr. Carr,

Please find enclosed a copy of Progress Report No. 14 from July 9 to July 15, 2001. If you have any questions, please do not hesitate to contact me on site or Ken Brouwer in our Vancouver office.

Regards,

C. Wilson Muir

C. Wilson Muir, P.Eng.
 Resident Engineer
 Knight Piésold Consulting

July 17/01.

Note: Permit to 945 m.
 This report indicates construction
 to 942.5 m.

∴ departure from plan of work
 system or program requires written
 authorization from Chief Inspector.

The content of this communication is confidential. If you are not the intended recipient, please notify us immediately. Unauthorized use or disclosure of this communication or its content is unlawful.

Knight Piésold
CONSULTING**MOUNT POLLEY MINING CORPORATION**
MOUNT POLLEY MINE**TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION**
PROGRESS REPORT NO. 14 - JULY 9 TO JULY 15, 2001**SECTION 1.0 - GENERAL**

Mount Polley Mining Corporation (MPMC) continued Stage 3B construction activities. Knight Piésold Ltd. (KP) carried out QA/QC activities during the reporting period.

The scope of work includes placement of Zones S, F, T and C to El. 942.5 m on the Perimeter Embankment (Ch. 28+00 to 44+50). MPMC is carrying out this work with the exception of filter sand hauling between the millsite and the TSF, which is being completed by sub-contractors.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- Wilson Muir, Resident Engineer.

The following MPMC personnel were on site during the reporting period:

- Don Parsons Mine Superintendent
- Eric LeNeve Tailings Coordinator
- Larry Raymond General Foreman
- Don Jameson Site Foreman
- Ron Gale Site Foreman

1.2 CONTRACT DEVELOPMENTS

MPMC selected Lake Excavating Ltd., of Williams Lake, B.C., to place the latest crush pile of Zone F. The placement of this material is expected to take place from July 16 to 18, 2001.

1.3 DESIGN DEVELOPMENTS

A design change for the Perimeter Embankment was submitted and approved during the reporting period. The change minimizes capital expenditures while maintaining the integrity of the embankment. Zone C will be constructed to a minimum El. 935.0 m. Zones F and T will be placed over the exposed Zone S to El. 941.0 m. Zone S will be constructed to El. 942.5 m.

A preliminary spillway conceptual arrangement for the TSF has been produced by KP. The arrangement will be finalized into a design in the coming months.

1.3 WEATHER

Conditions were generally sunny with cloudy periods during the reporting period. Maximum daytime highs reached about +25 °C and nightly lows sank to as low as +10 °C.

Knight Piésold CONSULTING

1.4 SAFETY

No safety incidents were reported over the reporting period.

SECTION 2.0 - TAILINGS FACILITY OPERATION AND MAINTENANCE

Tailings were spigotted along the Main Embankment crest during the reporting period at approximate Chainage 19+00. The tailings line will be moved to the east to approximate Ch. 22+00 to obtain a well developed, even beach at the Main Embankment. The tailings line will then be moved to the ridge between the Main and South Embankments. It is anticipated that tailings will form a substantial beach in this area by discharging at this location.

The Tailings Pond remains a significant distance from the Perimeter Embankment.

SECTION 3.0 - CONSTRUCTION ACTIVITIES

3.1 EQUIPMENT

MPMC used the following equipment over the reporting period:

- Excavators: 1 Hitachi EX 270, 1 Caterpillar 235, 1 Hitachi EX 400
- Haul Trucks: 2 Caterpillar 777 85T
- Dozers: 1 Caterpillar D6, 1 Caterpillar D8K
- Compactors: 1 Caterpillar CS 563 10T vibratory smooth drum
- Graders: 1 Caterpillar 14G
- Service, water and fuel trucks

MPMC carried out the following activities during the reporting period:

- Crushing of Zone F material at the millsite.
- Placement of Zone S fill, Perimeter Embankment: Ch. 28+00 to 32+00, El. 941 to 942.5 m. Embankment construction is now complete in this area.
- Placement of Zone T fill, Perimeter Embankment: Ch. 32+50 to 34+00, El. 936 to 940.5 m.
- Cleaning of existing slopes in preparation for Zone F material.
- Development of the Rock Borrow for Zones T and C materials.

Zone T was supplied from the Rock Borrow, while Zone S was delivered from Borrow Area 2. Zone S was placed in 300 mm thick lifts, while Zone T was placed upon Zone F in a 1 metre thick lift.

Knight Piésold CONSULTING

SECTION 4.0 - KNIGHT PIÉSOLD ACTIVITIES

4.1 GENERAL

KP activities over the reporting period included the following:

- Monitoring and inspection of fill placement of Zones S and T.
- Submission of daily summaries of QA/QC and construction activities to MPMC.
- Control and Record sampling and testing of embankment fill materials.
- Ongoing discussions and correspondence with MPMC and KP Vancouver with regard to current and future design.
- Preparation of progress reports.

4.2 Laboratory Testing

The following samples were processed during the reporting period:

- C-ZF-42 and 43
- R-ZF-36 and 37
- R-ZS-7

Control sample C-ZF-42 failed the grain size specification. The pile was thoroughly mixed with a dozer following this testing. Subsequent control sample C-ZF-43 met the grain size specification and the pile was approved for fill placement.

All record tests completed during the reporting period proved suitable for their respective zones. The Maximum Dry Density for R-ZS-7 was found to 2080 kg/m³ at 9.0 % moisture content.

All tests carried out during the reporting period are presented in the attached tables and figures.

SECTION 5.0 - MONITORING

5.1 GENERAL

Instrumentation was monitored during the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

5.2 VIBRATING WIRE PIEZOMETERS

No new piezometers were installed over the reporting period.

Piezometer readings are taken on a weekly basis. The results from the monitoring are shown on Figures 5.1 to 5.7. Locations of the piezometers are presented on the attached Drawings.

Foundation Piezometers

No substantial changes were noted in the remaining foundation piezometers.

Knight Piésold
CONSULTINGFill Piezometers

The majority of the Main Embankment glacial till piezometers responded to construction of the overlying Stage 3A fills with increasing pore pressures. These piezometers are now fully dissipated, as a constant, horizontal trend has been showing for some time now.

Two piezometers located within the Stage 1A glacial till fill have historically registered anomalous values, and warrant discussion.

Piezometer B2-PE2-03 reacted strongly to fill placement during initial construction. Pore pressures did not dissipate in the periods following fill placement, but remained constant. This is in direct contrast to other instruments located nearby. This trend changed in 1999, when B2-PE2-03 began to show dissipation at the completion of fill placement. This new trend has been repeated three times, with approximately the same dissipation rate after each stage of construction, with an increase in pore pressure between 50 and 100% of the increase in total stress. It appears that drainage paths were limited in the fill around this piezometer and pore pressures are still equilibrating.

Piezometer C2-PE2-05 is also located in the Stage 1A glacial till fill. This instrument historically showed little or no reaction to construction, but indicated a slow, steady increase in pore pressure over time. This suggests that pore pressures in the fill around C2-PE2-05 are reaching a steady state condition as the phreatic surface moves through the fill. It should be noted that the pressure head registered by this piezometer is approximately 10 m. This is similar to other piezometers located in comparable locations in the glacial till fill.

Drain Piezometers

All drain piezometers have remained static and at very low head indicating free draining conditions within the embankment drainage systems.

Tailings Piezometers

Water levels at the tailings piezometers continue to mimic the pond level, except at the Main Embankment, where the upstream toe drain has resulted in a depressed phreatic surface.

5.3 DRAIN FLOWS

Drains flows were recorded on July 13, 2001. The results from the foundation drains and upstream toe drain are shown on Figures 5.8 and 5.9.

5.4 SLOPE INCLINOMETERS

The equipment to monitor, record and evaluate the data from the slope inclinometers will be on site soon. Exact depths of the inclinometers will be determined and calibration measurements will be carried out at that time.

SECTION 6.0 - ONGOING ITEMS

The following items will be addressed during upcoming reporting periods:

- MPMC will continue to construct the Stage 3B Perimeter Embankment to El. 942.5 m.
- The slope inclinometers will be measured and calibrated.
- KP will continue to provide QA/QC and site supervision activities in accordance with the technical specifications.

Submitted by,

C. W. J.

~~C. Wilson Muir, B. Eng.~~
~~Resident Engineer~~
~~Knight Piésold Consulting.~~

Distribution: Eric LeNeve, Tailings Coordinator, MPMC Site
Don Parsons, Mine Superintendent, MPMC Site
Chris Carr, Ministry of Energy and Mines, Victoria, B.C.
Ken Brouwer, KP Vancouver

ZONE F CONTROL TEST SUMMARY SHEET

INTRODUCTION

Page 1 of 1

MOUNT POLLEY MINE

ZONE F RECORD TEST SUMMARY SHEET

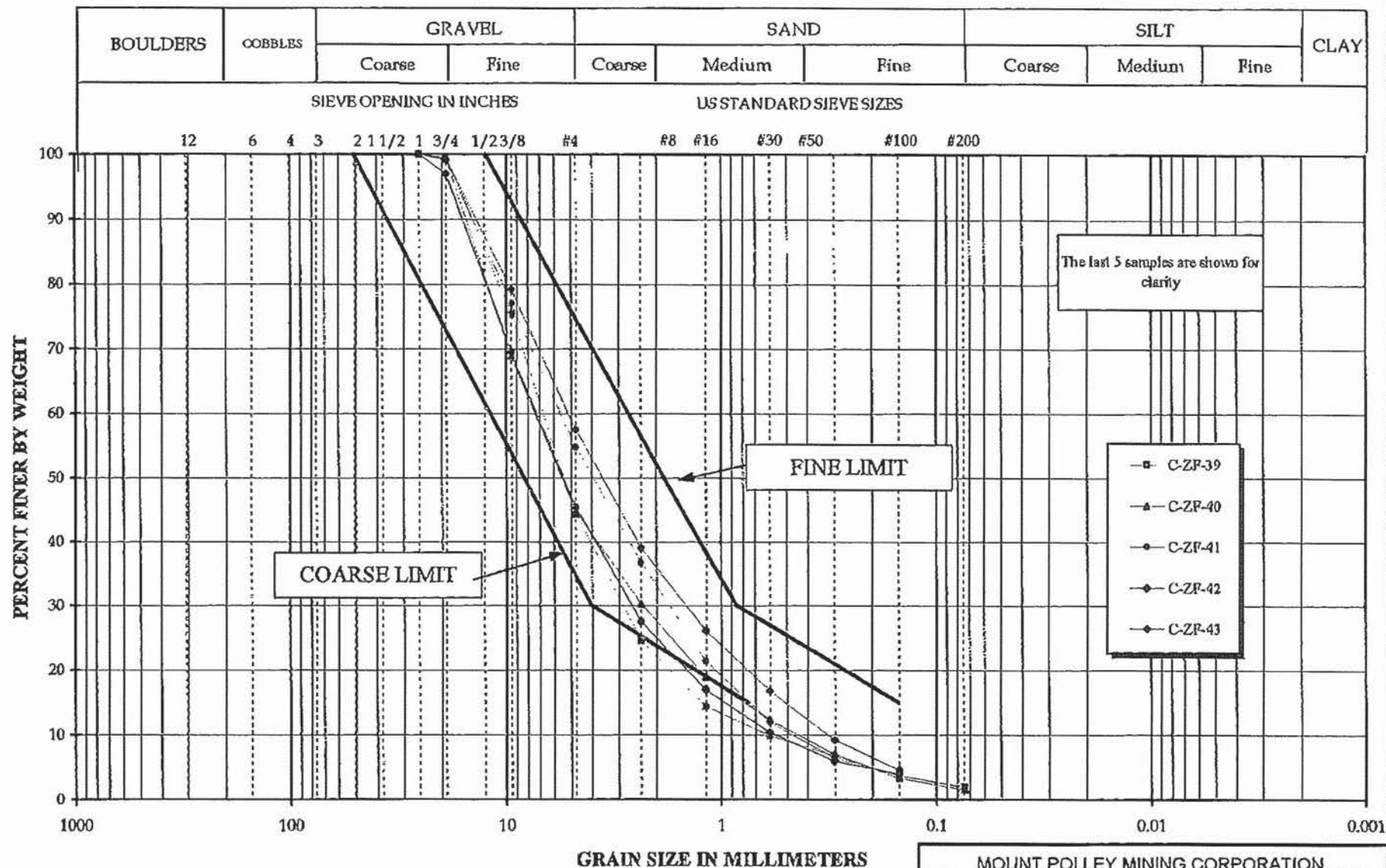
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R2	Moisture Content (ASTM D2216)
R3	Particle Size Distribution (ASTM D422)
R4	Laboratory Compaction (ASTM D1557)
R6	Specific Gravity (ASTM D854)

250 790 2268 PAGE.009

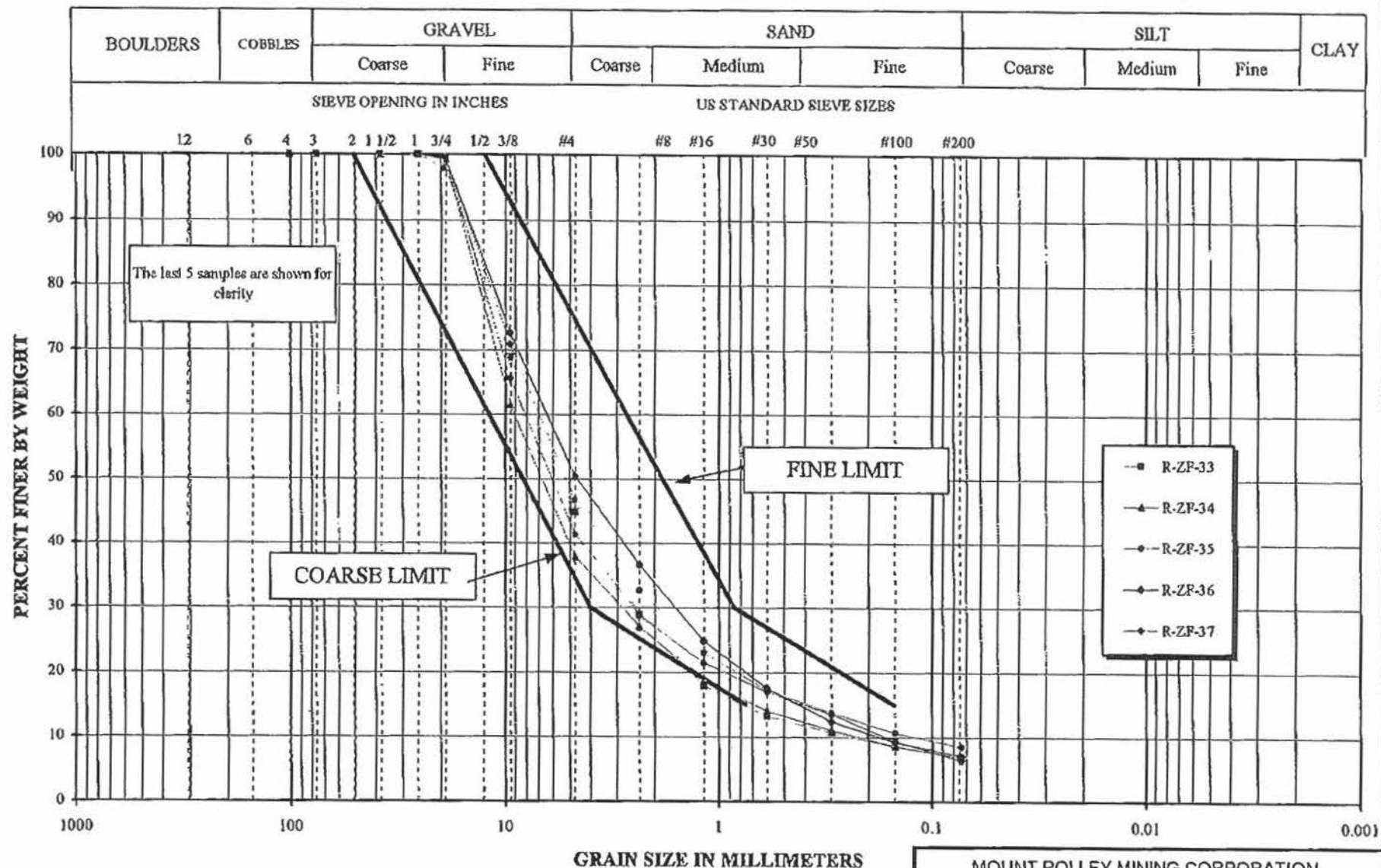
ZONE S RECORD TEST SUMMARY SHEET

Page 1 of 1

JUL 17 '01 12:37



MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY - STAGE 3B		
CONSTRUCTION - ZONE F CONTROL SAMPLES		
GRADATION CURVES		
PROJECT NO.	REF. NO.	REV.
11162/14		
Knight Piésold CONSULTING		
FIGURE 4.1		



MOUNT POLLEY MINING CORPORATION

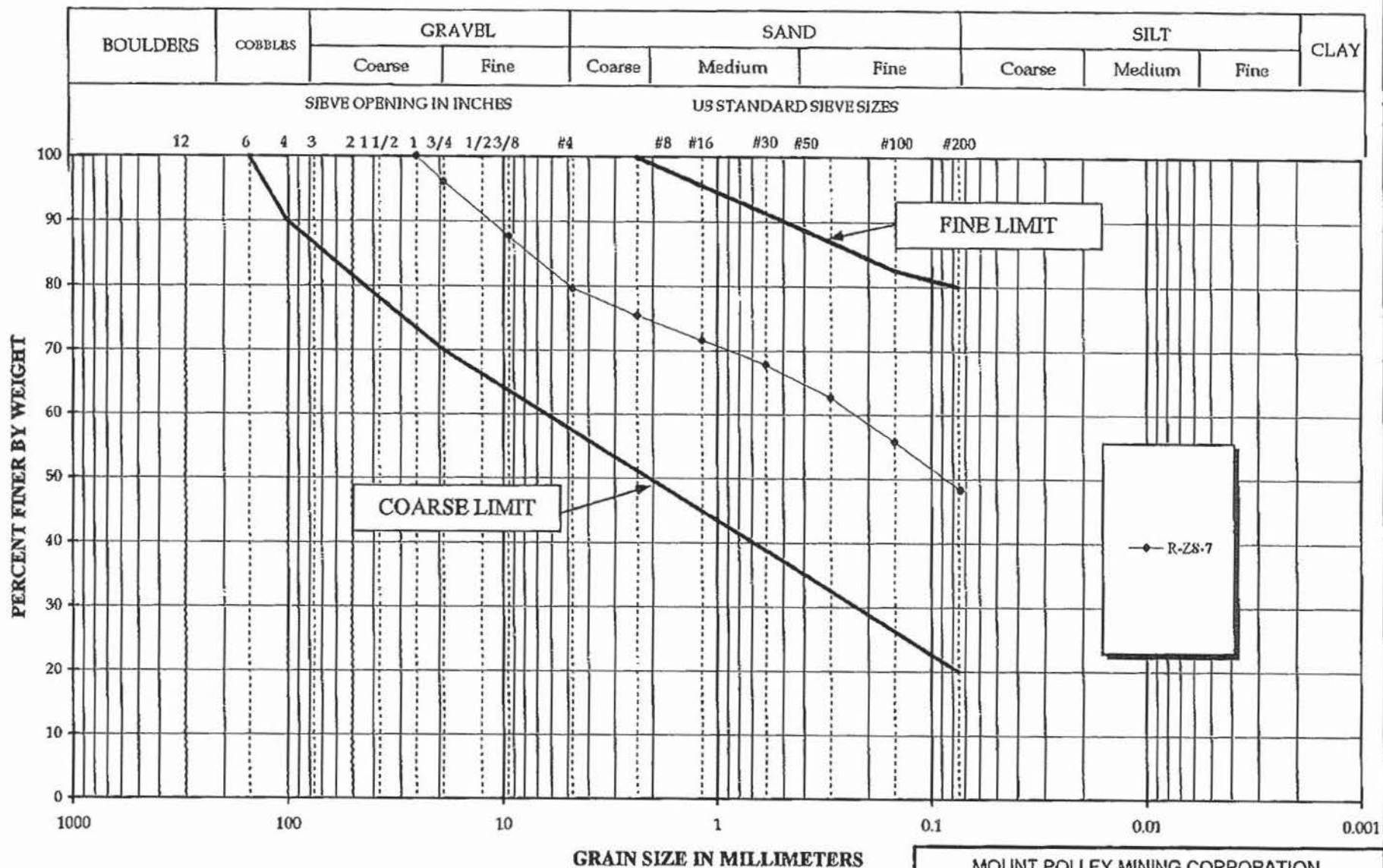
MOUNT POLLEY MINE

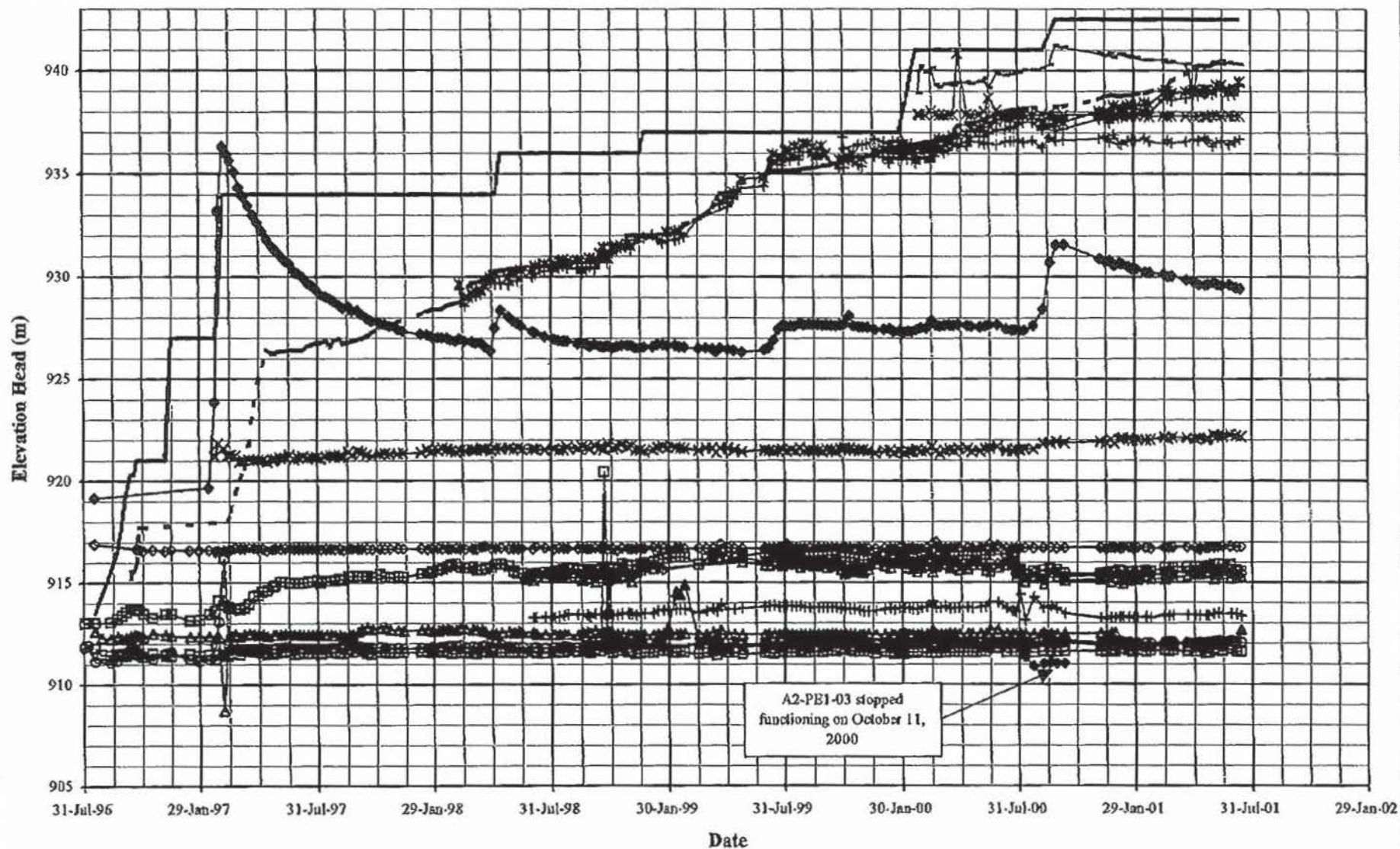
TAILINGS STORAGE FACILITY - STAGE 3B
CONSTRUCTION - ZONE F RECORD SAMPLES

GRADATION CURVES

Knight Piésold
CONSULTINGPROJECT NO. 11162/14
REF. NO. REV.

FIGURE 4.2





- - - Pond Level	— Fill Elevation	* A0-PE2-01	+ A0-PE2-02
—▲ A1-PE1-01	—□ A1-PE1-02	—◇ A1-PE1-03	—▲ A2-PE1-01
—□ A2-PE2-01	—○ A2-PE2-02	—◆ A2-PE2-03	—× A2-PE2-05
—▲ A2-PE2-06	—◇ A2-PE2-07	—+ A2-PE2-08	—+ A1-PE1-04
— A2-PE1-02	—× A0-PE1-01	—◆ A2-PE1-03	

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

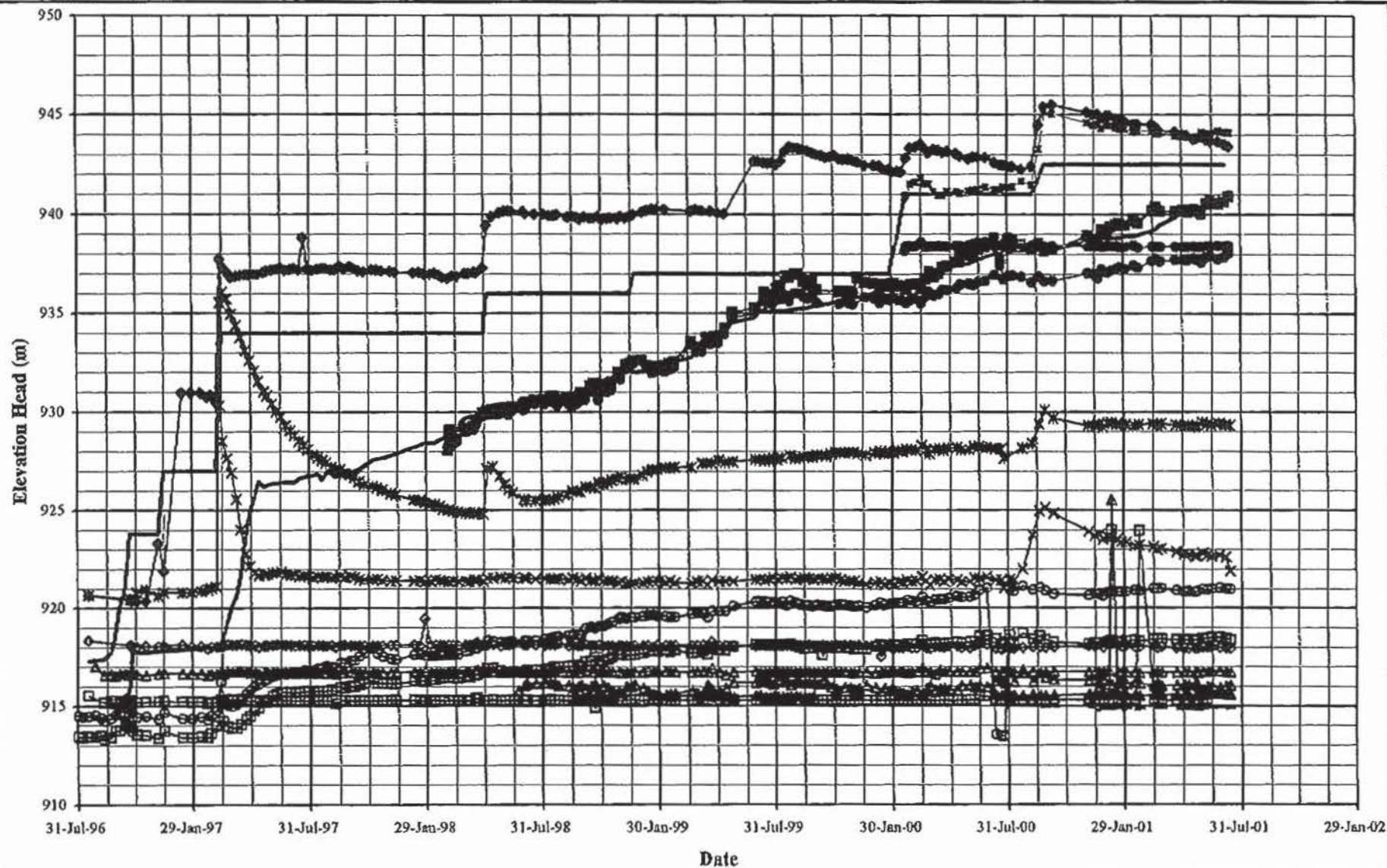
PLANE A PIEZOMETERS

GRAPH OF ELEVATION vs. TIME

Knight Piésold
CONSULTING

PROJECT NO. 11162/14	REF. NO.	REV.
-------------------------	----------	------

FIGURE 5.1



- | | | | | |
|--------------|------------------|-------------|-------------|-------------|
| — Pond Level | — Fill Elevation | ■ B0-PE2-01 | ● B0-PE2-02 | ▲ B1-PE2-01 |
| □ B1-PE1-01 | ◇ B1-PE1-03 | ▲ B2-PE1-01 | □ B2-PE2-01 | ○ B2-PE2-02 |
| ◆ B2-PE2-03 | * B2-PE2-04 | × B2-PE2-05 | ▲ B2-PE2-06 | ● B0-PE1-01 |
| ■ B2-PE1-02 | - B2-PE1-03 | | | |

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

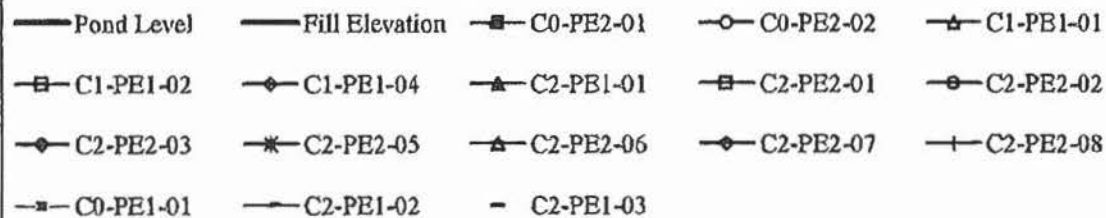
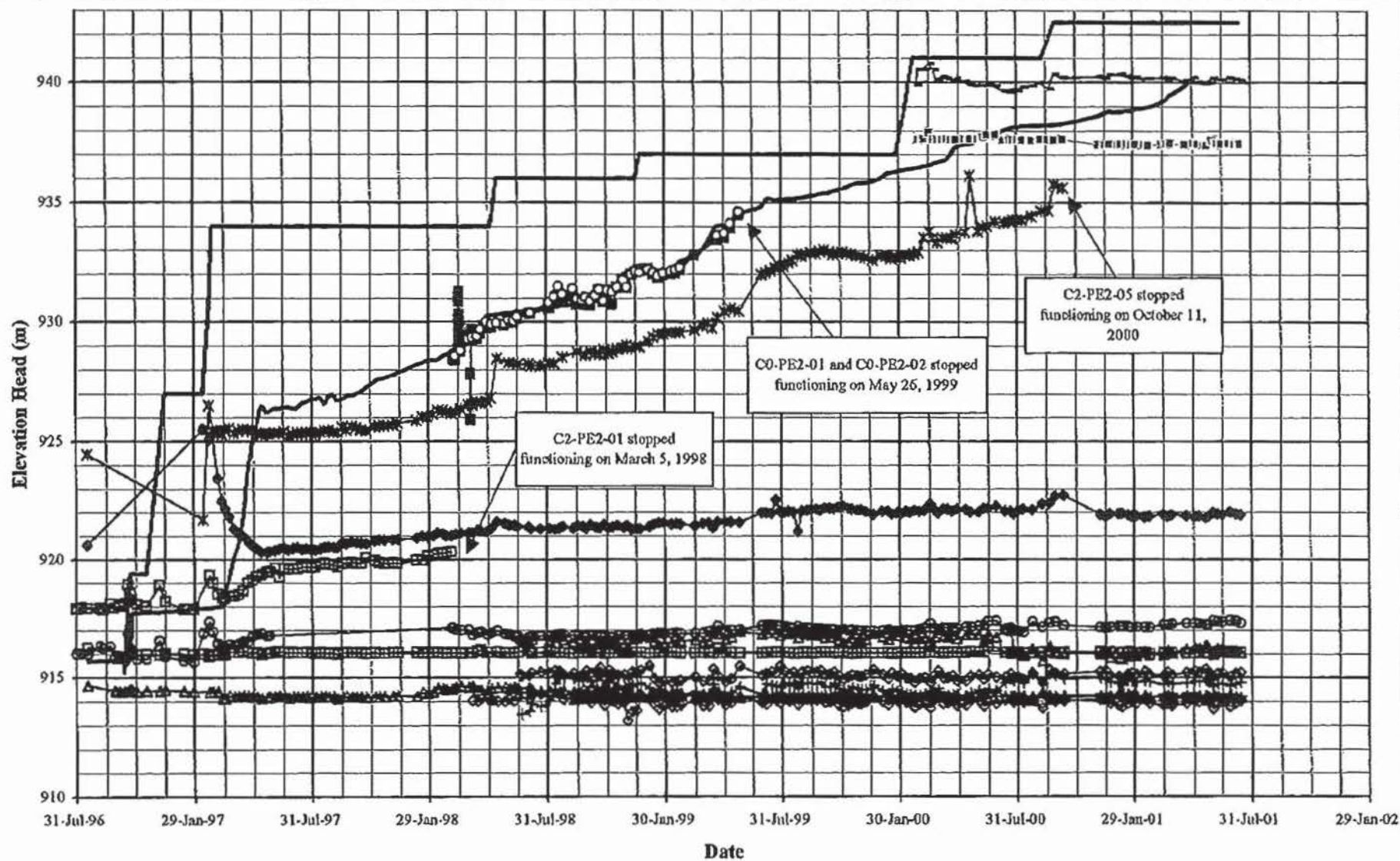
PLANE B PIEZOMETERS

GRAPH OF ELEVATION vs. TIME

Knight Piésold
CONSULTING

PROJECT NO. 11162/14	REF. NO.	REV.
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FIGURE 5.2



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

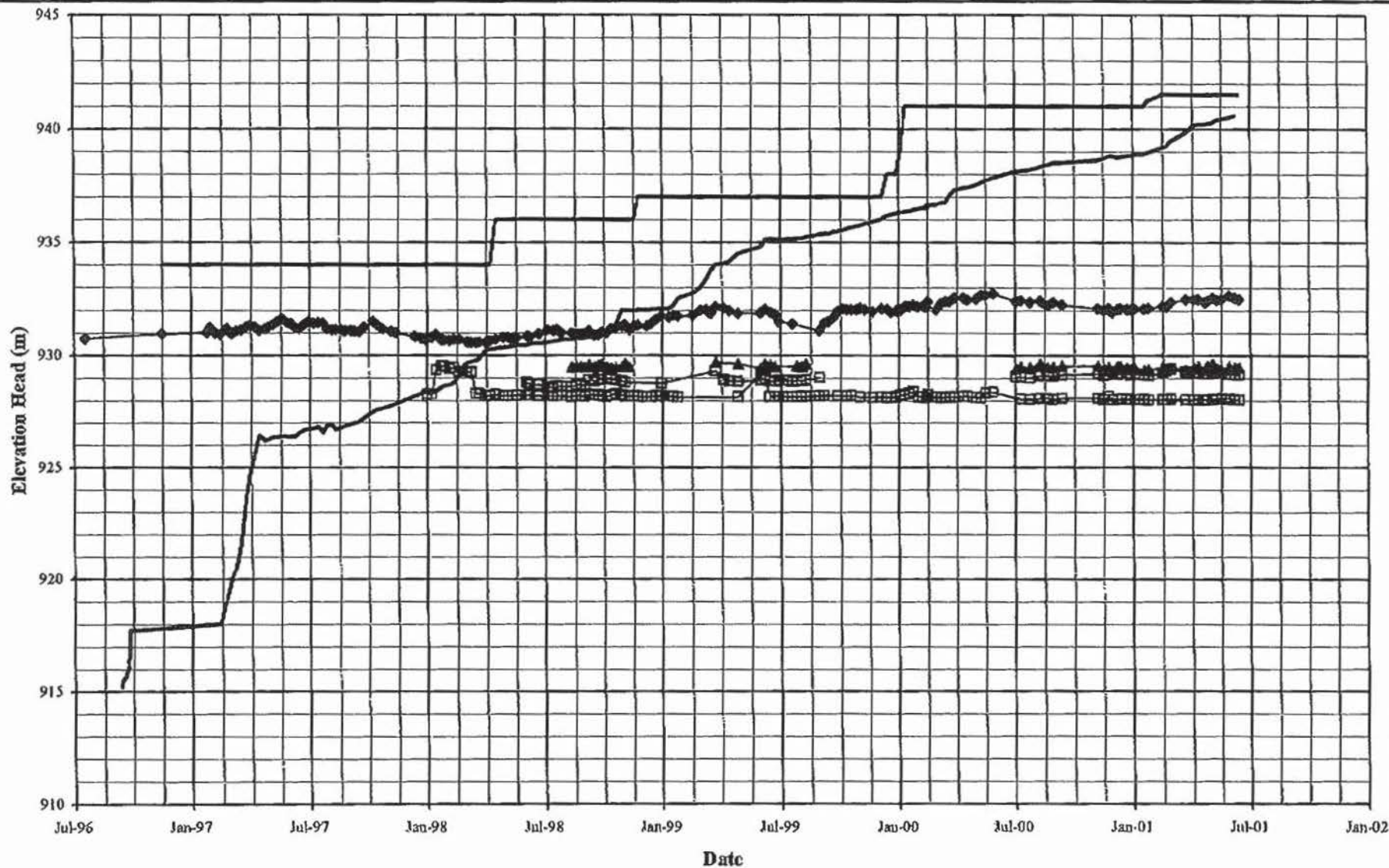
PLANE C PIEZOMETERS

GRAPH OF ELEVATION vs. TIME

Knight Piésold
 CONSULTING

PROJECT NO.	REF. NO.	REV.
11182/14		

FIGURE 5.3



—○— Pond Level

—□— Fill Elevation

—□— D1-PB1-02

—△— D2-PE1-01

—◇— D2-PB2-02

—□— D2-PB2-02

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

PLANE D PIEZOMETERS

GRAPH OF ELEVATION vs. TIME

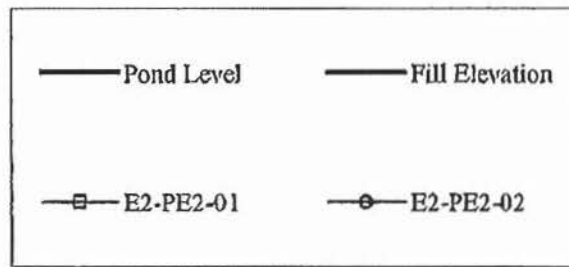
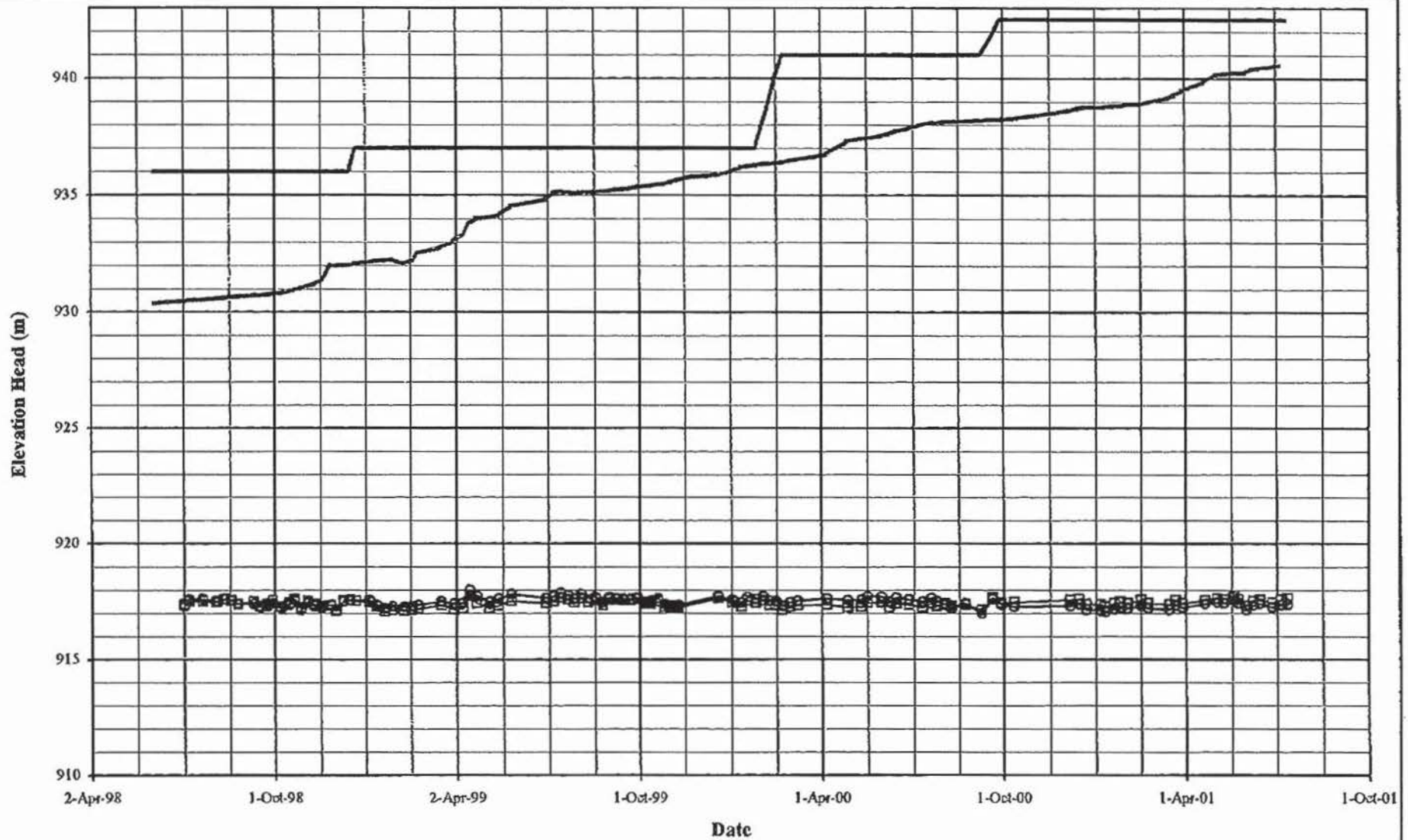
Knight Piésold
CONSULTING

PROJECT NO.
11162/14

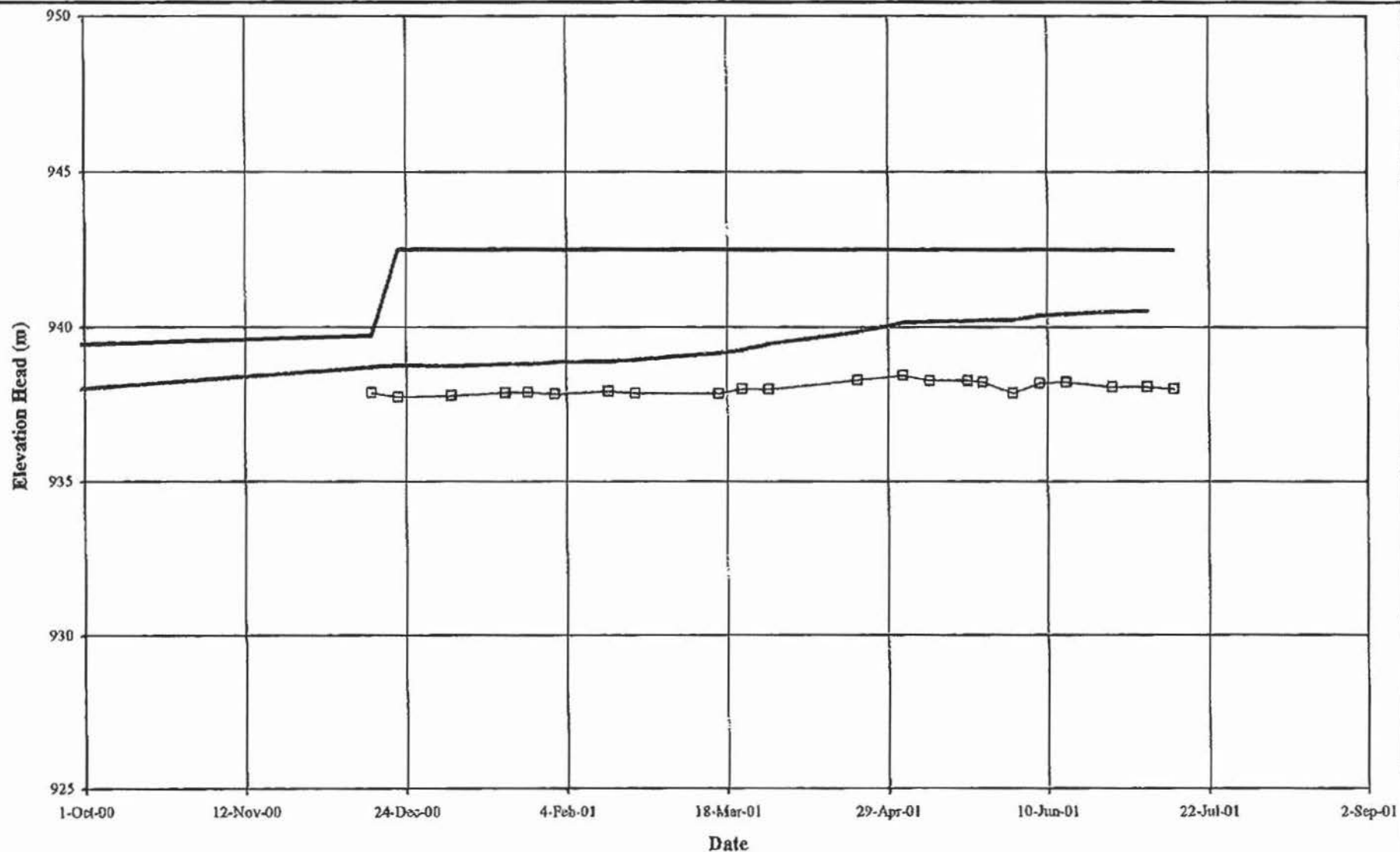
REF. NO.

REV.

FIGURE 5.4



MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY		
PLANE E PIEZOMETERS		
GRAPH OF ELEVATION vs. TIME		
Knight Piesold CONSULTING	PROJECT NO. 11162/14	REF. NO.
		REV.
FIGURE 5.5		



— Pond Level — Fill Elevation —□— F2-PE2-01

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

PLANE F PIEZOMETERS

GRAPH OF ELEVATION vs. TIME

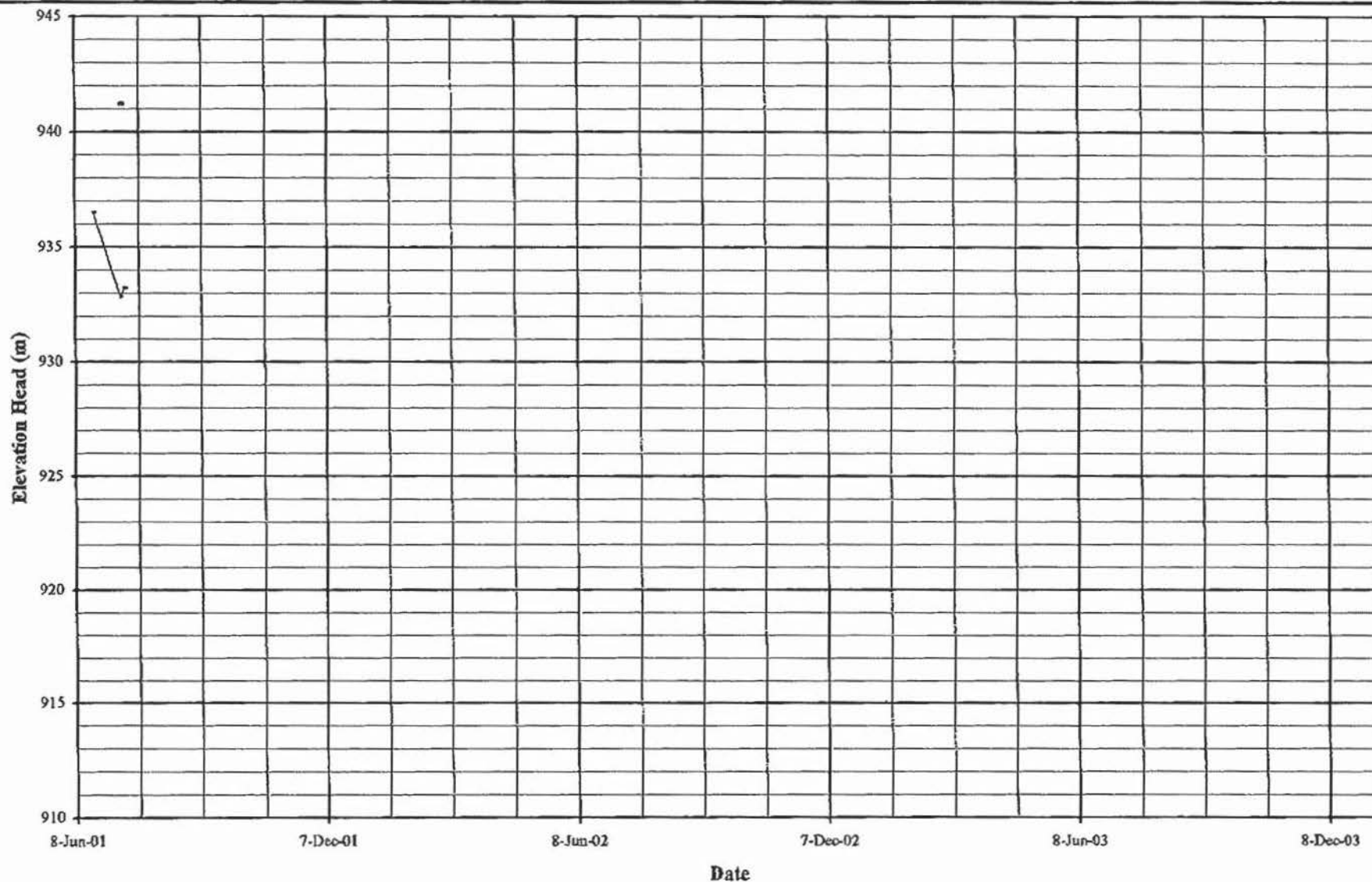
Knight Piésold
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PROJECT NO.
11162/14

REF. NO.

REV.

FIGURE 5.6



— Pond Level

— Fill Elevation

— H1-PE1-01

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

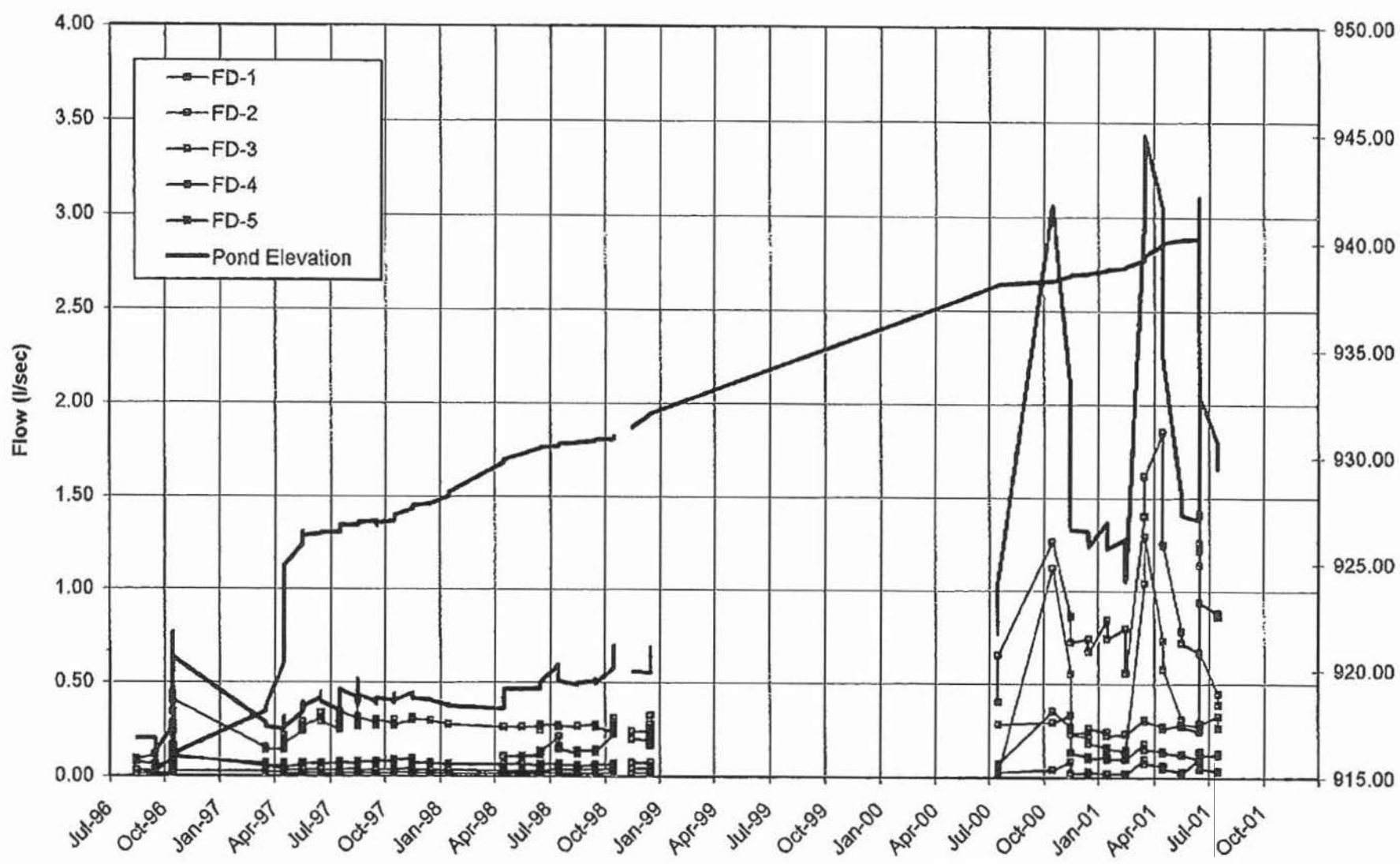
PLANE H PIEZOMETERS

GRAPH OF ELEVATION vs. TIME

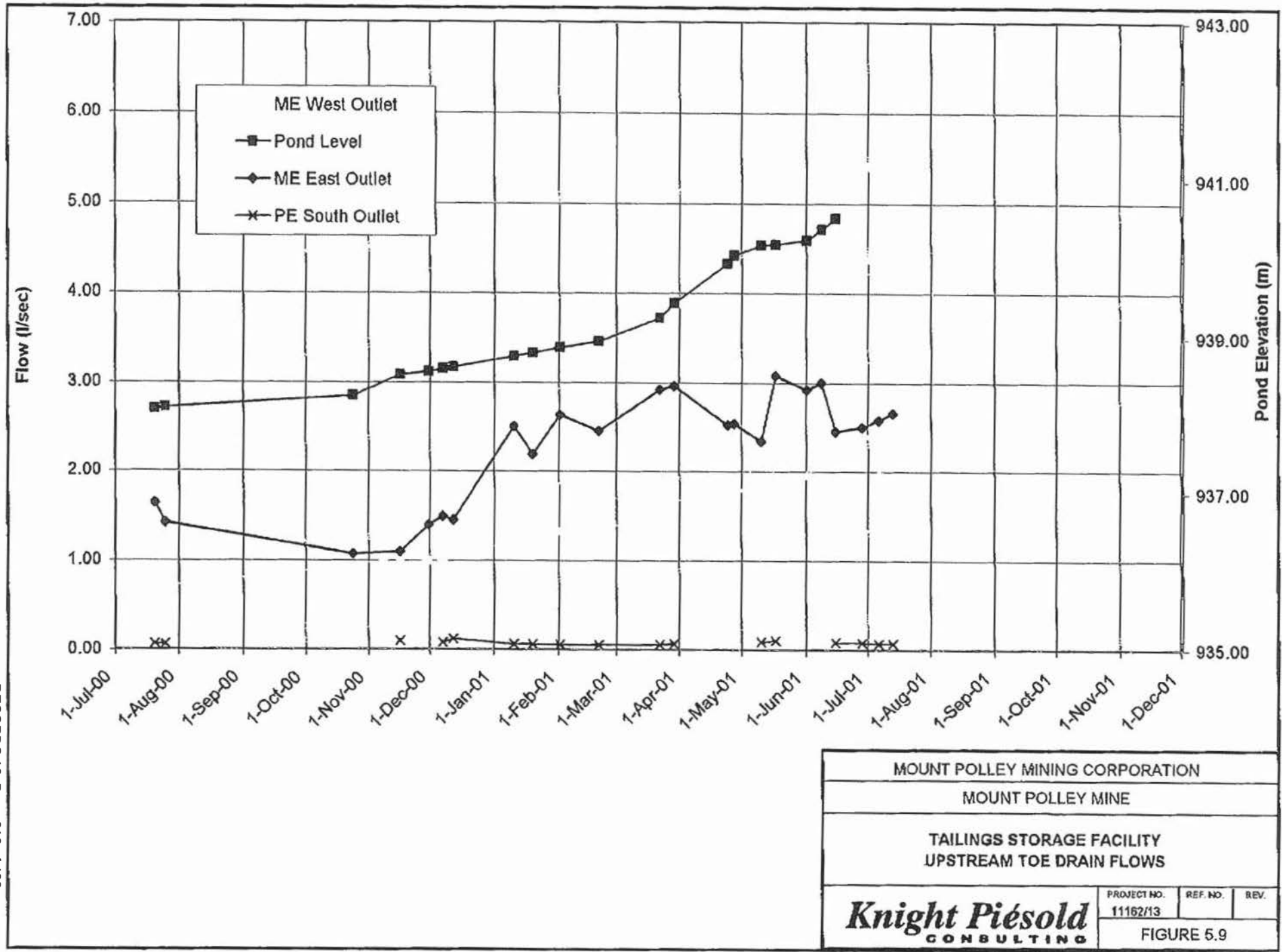
Knight Piésold
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PROJECT NO. 11162/14	REF. NO.	REV.
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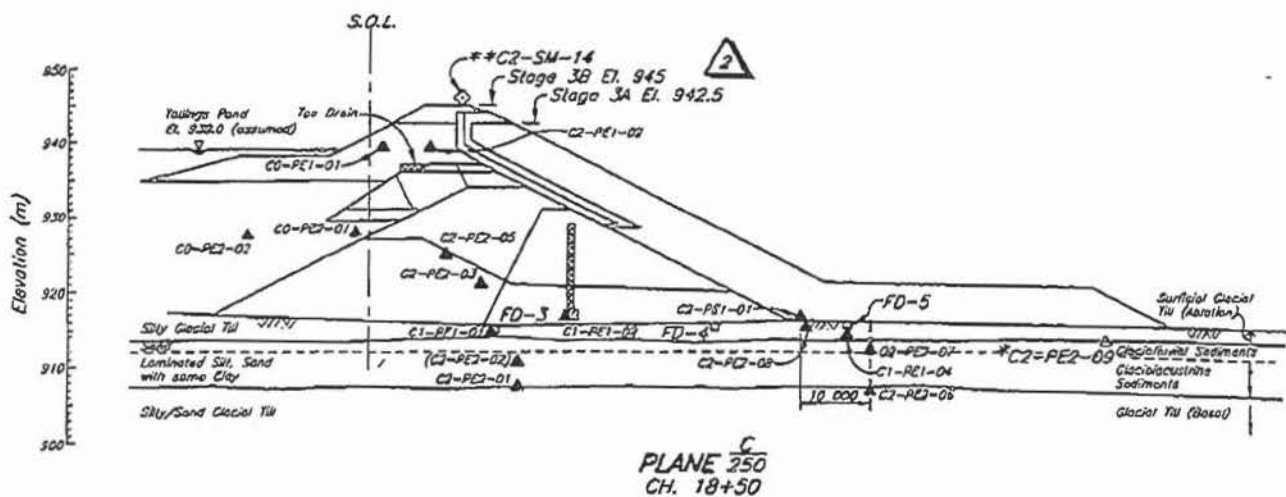
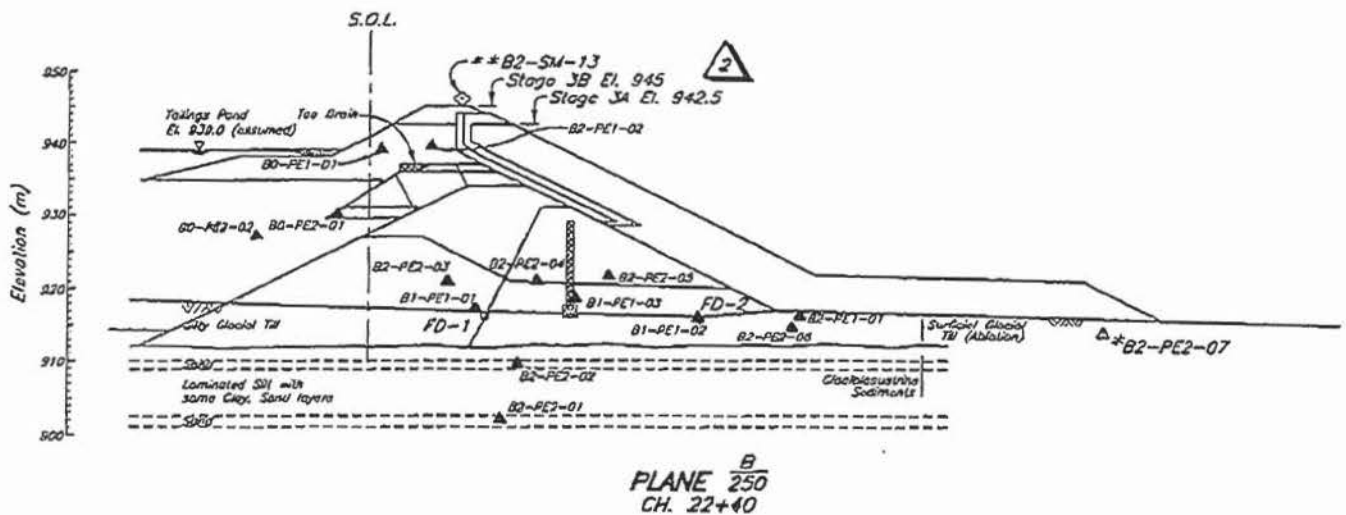
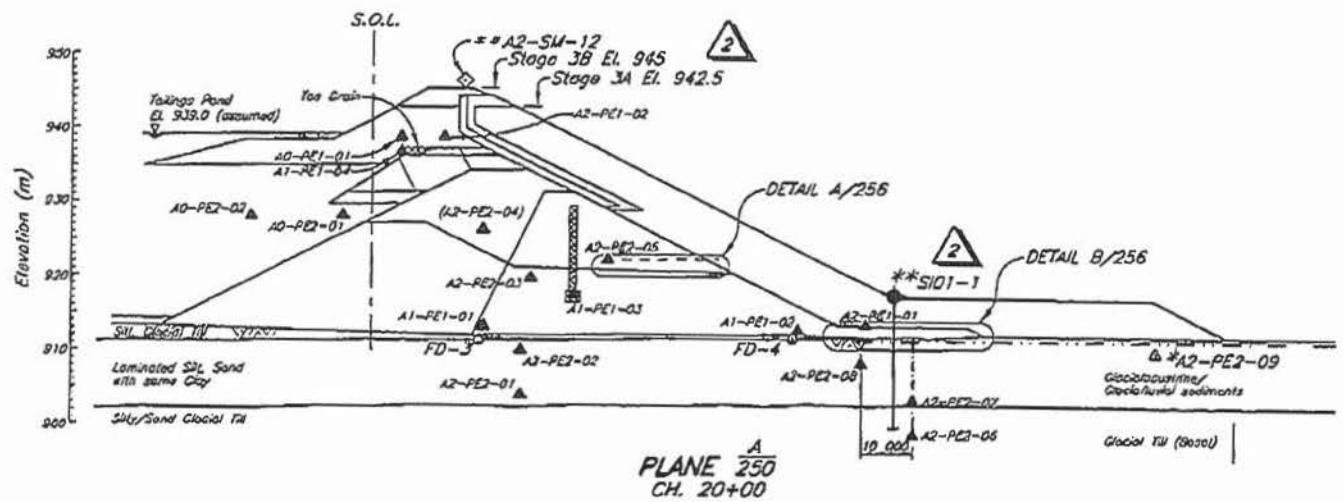
FIGURE 5.7



MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
TAILINGS STORAGE FACILITY			
MAIN EMBANKMENT			
FOUNDATION DRAIN FLOWS			
Knight Piésold CONSULTING	PROJECT NO.	REF. NO.	REV.
	11162/13		
FIGURE 5.8			



MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY UPSTREAM TOE DRAIN FLOWS		
Knight Piésold CONSULTING	PROJECT NO. 11162/13	REF. NO.
	FIGURE 5.9	

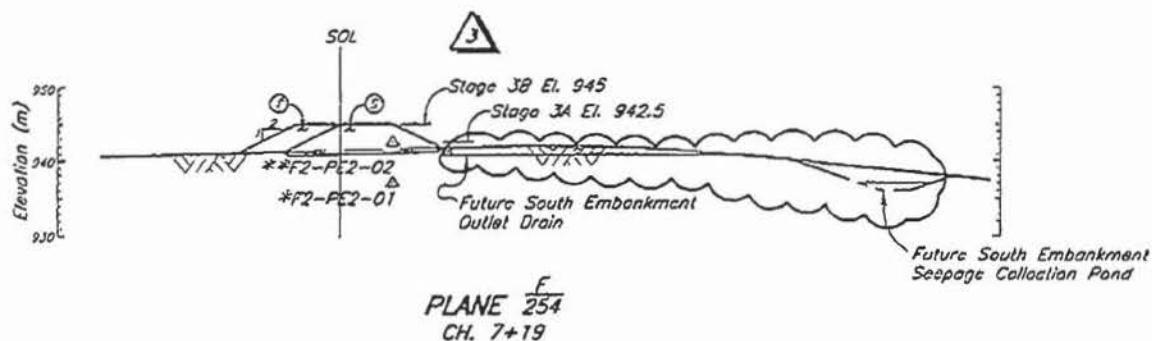
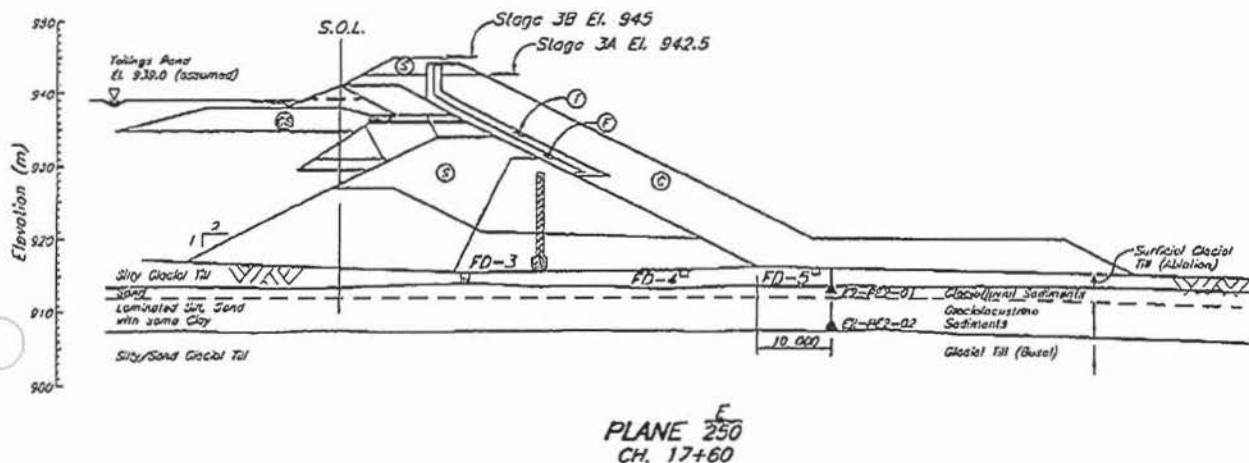
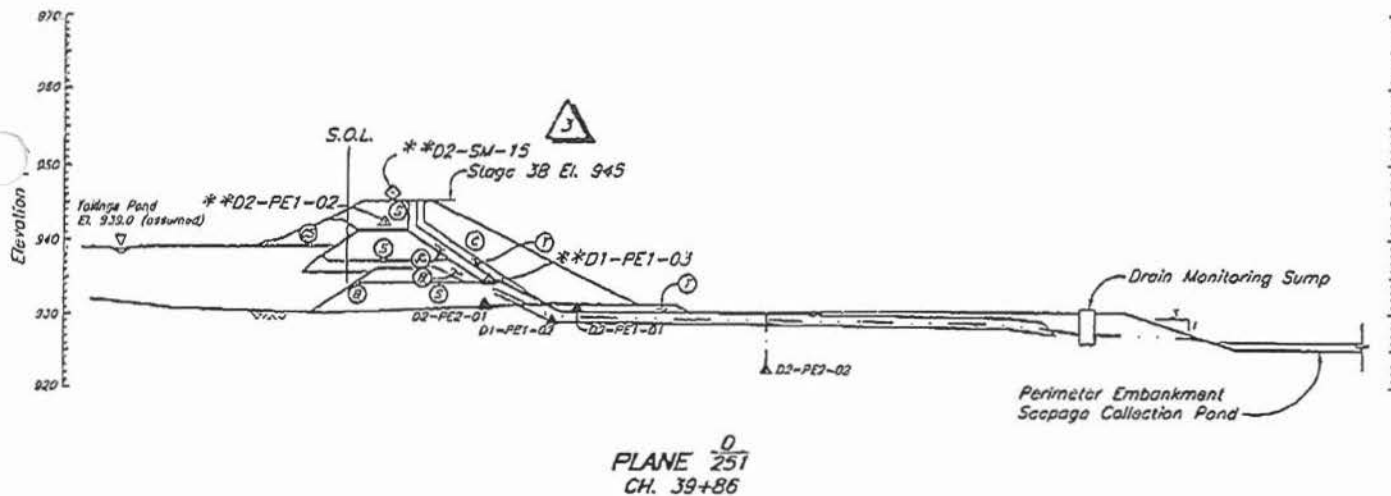


STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SECTIONS 2 OF 2
STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SUMMARY OF INSTALLATION & TYP. DETAILS
STAGE 3 MAIN EMBANKMENT - INSTRUMENTATION - PLAN

DESCRIPTION	REV.	DATE
REFERENCE DRAWINGS		

DESCRIPTION	DESIGN	DRAWN	CHECKED	APP'D	REV.	DATE
REVISIONS						

2	08MAY'01	ISSUED FOR
1	26JAN'01	STAGE 3B
0	2JUN'00	ISSUED FOR

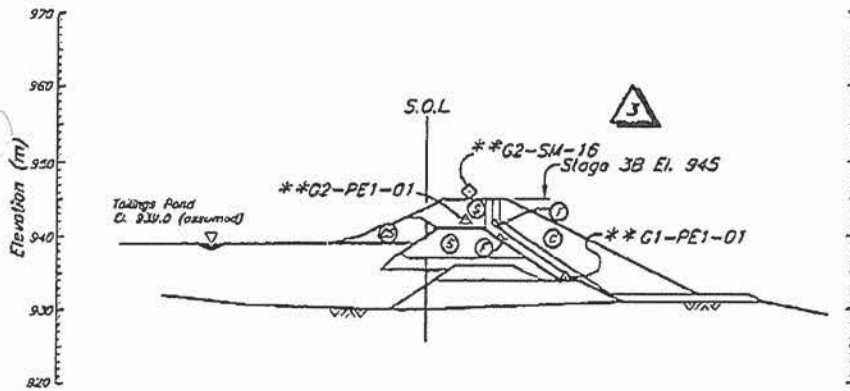


3 TAILINGS EMBANKMENT - INSTRUMENTATION SUMMARY OF INSTALLATION & TYPICAL DETAILS
 2 TAILINGS EMBANKMENT - SOUTH EMBANKMENT - INSTRUMENTATION PLAN
 1 STAGE 3 PERIMETER EMBANKMENT - INSTRUMENTATION PLAN
 0 STAGE 3 TAILINGS EMBANKMENT - MAIN EMBANKMENT - INSTRUMENTATION PLAN

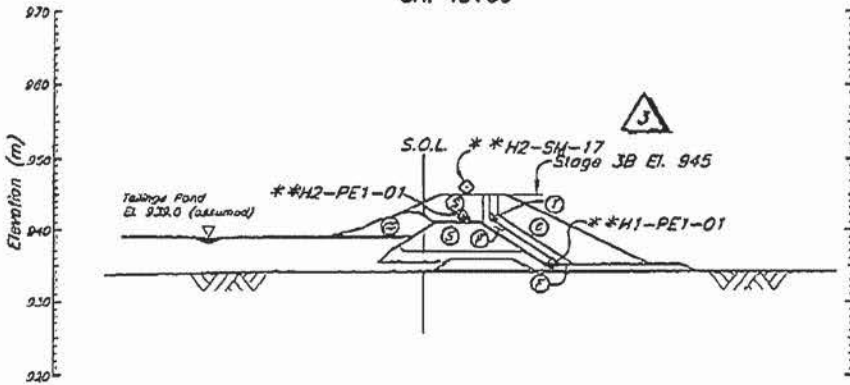
DESCRIPTION	REV.	DATE
REFERENCE DRAWINGS		

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

3	08MAY'01	ISSUED FOR
2	26JAN'01	STAGE 3B
1	20OCT'00	PERIMETER
0	2JUN'00	ISSUED FOR



PLANE $\frac{G}{251}$
CH. 43+00



PLANE $\frac{H}{251}$
CH. 36+00

NOTE

1. See Drg. No. 11162-13-256 for Summary of Instrumentation Installations, Typical Details, General Notes and Legend.
2. Instrumentation with one asterisk indicates placement during Stage 3A construction. Instrumentation with 2 asterisks indicate placement during Stage 3B construction.



Scale 10 0 10 20 30 40 50 m



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 3 TAILINGS EMBANKMENT
INSTRUMENTATION
SECTIONS - SHEET 2 OF 2

STAGE 3B TENDER	CWM	DSR	JRK	KJB
3B - CREST ELEVATION 945	JRK	AW	JMTW	KJB
TER EMBANKMENT SECTIONS ADDED	JRK	NSD	JMTW	KJB
FOR CONSTRUCTION	JRK	TAM	ABW	KJB
DESIGN	DESIGN	DRAWN	CHECK'D	APP'D
REVISIONS				

DESIGNED	JRK	CHECKED	ABW
DRAWN	DSR	APPROVED	KJB

Knight Piésold
CONSULTING

SCALE	AS SHOWN	REVISION	3
DRAWING NO.	11162-13-259		

DMD FILE: M:\11162-13-259\Drawings\01.dwg 1-900 PLOT 1-11/01 by A. 2001 and

Knight Piésold
CONSULTING

Mount Polley Site Office Fax: (250) 790-2268
www.knightpiesold.com

DATE: July 24, 2001

FILE NO.: 11162/14.F01/F02/
/F04/F05/F08

TIME:

REF NO.: 01-23

OPERATOR:

PAGES: 1 of 21

SENDER: Wilson Muir

TO: Ministry of Energy and Mines, Victoria B.C. FAX : 250-952-0481

ATTN: Chris Carr

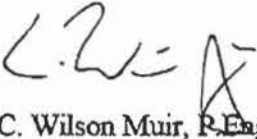
CC: Ken Brouwer, KP Vancouver
Don Parsons / Eric LeNeve, MPMC Site

SUBJECT: Progress Report No. 15

Dear Mr. Carr,

Please find enclosed a copy of Progress Report No. 15 from July 16 to July 22, 2001. If you have any questions, please do not hesitate to contact me on site or Ken Brouwer in our Vancouver office.

Regards,



C. Wilson Muir, P.Eng.
Resident Engineer
Knight Piésold Consulting

MINISTRY OF
ENERGY AND MINES

REC'D JUL 27 2001

Knight Piésold
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
PROGRESS REPORT NO. 15 – JULY 16 TO JULY 22, 2001

SECTION 1.0 - GENERAL

Mount Polley Mining Corporation (MPMC) continued Stage 3B construction activities. Knight Piésold Ltd. (KP) carried out QA/QC activities during the reporting period.

The scope of work includes placement of Zones S, F, T and C to El. 942.5 m on the Perimeter Embankment (Ch. 28+00 to 44+50). MPMC is carrying out this work with the exception of filter sand hauling between the millsite and the TSF, which is being completed by sub-contractors.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- Wilson Muir, Resident Engineer.

The following MPMC personnel were on site during the reporting period:

- Don Parsons Mine Superintendent
- Eric LeNeve Tailings Coordinator
- Charlie O'Hara General Foreman
- Don Jameson Site Foreman
- Ron Gale Site Foreman

1.2 CONTRACT DEVELOPMENTS

No new contract developments occurred over the reporting period.

1.3 DESIGN DEVELOPMENTS

No new design developments occurred during the reporting period.

1.3 WEATHER

Conditions were generally rainy with cloudy periods during the reporting period. Maximum daytime highs reached about +20 °C and nightly lows sank to as low as +7 °C.

1.4 SAFETY

Knight Piésold CONSULTING

A haul truck came into contact with a power line while dumping on July 16. No injuries took place and no damage occurred to either the power line or the haul truck. However, power to the mill was shut down for several hours to affect the required checks.

SECTION 2.0 - TAILINGS FACILITY OPERATION AND MAINTENANCE

Tailings were spigotted along the Main Embankment crest during the reporting period at approximate Chainage 26+00 to obtain a well developed, even beach at the Main Embankment. The tailings line will then be moved to the ridge between the Main and South Embankments. It is anticipated that tailings will form a substantial beach in this area by discharging at this location.

The Tailings Pond remains a significant distance from the Perimeter Embankment.

SECTION 3.0 - CONSTRUCTION ACTIVITIES

3.1 EQUIPMENT

MPMC used the following equipment over the reporting period:

- Excavators: 1 Hitachi EX 270, 1 Hitachi EX 400
- Haul Trucks: 2 Caterpillar 777 85T
- Loaders: 1 Caterpillar 992B
- Dozers: 1 Caterpillar D6, 1 Caterpillar D8K, 1 Caterpillar D7G
- Compactors: 1 Caterpillar CS 563 10T vibratory smooth drum
- Graders: 1 Caterpillar 14G
- Service, water and fuel trucks

MPMC carried out the following activities during the reporting period:

- Placement of Zone F fill, Perimeter Embankment: Ch. 32+00 to 33+50, 40+00 to 40+50 and 43+00 to 43+25, El. 932 to 940.5 m.
- Placement of Zone T fill, Perimeter Embankment: Ch. 32+00 to 33+50, 40+00 to 40+50 and 43+00 to 43+25, El. 932 to 940.5 m.
- Placement of Zone C fill, Perimeter Embankment: Ch. 43+00 to 43+50, El. 934 to 936 m.
- Cleaning of existing slopes in preparation for Zone F material.
- Sloping of the existing Zone C to a 2H:1V slope.
- Development of the Rock Borrow for Zones T and C materials.

Zones T and C were supplied from the Rock Borrow, while Zone F was delivered from the stockpile at the millsite. Zone F was placed in a 1 m thick lift on the downstream embankment slope over stiff Zone S, Zone T was placed upon Zone F in a 1 metre thick lift and Zone C was placed in 1 m thick, horizontal lifts.

SECTION 4.0 - KNIGHT PIÉSOLD ACTIVITIES

Knight Piésold
CONSULTING**4.1 GENERAL**

KP activities over the reporting period included the following:

- Monitoring and inspection of fill placement of Zones F, T and C.
- Submission of daily summaries of QA/QC and construction activities to MPMC.
- Control and Record sampling and testing of embankment fill materials.
- Ongoing discussions and correspondence with MPMC and KP Vancouver with regard to current and future design.
- Preparation of progress reports.

4.2 Laboratory Testing

The following samples were processed during the reporting period:

- R-ZF-38

The Zone F record test completed during the reporting period proved suitable Zone F fill.

All tests carried out during the reporting period are presented in the attached tables and figures.

SECTION 5.0 - MONITORING**5.1 GENERAL**

Instrumentation was monitored during the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

5.2 VIBRATING WIRE PIEZOMETERS

Piezometers D1-PE1-03 and G1-PE1-01 were installed over the reporting period. Both are situated in the Zone F fill. The locations of these new piezometers are presented in the attached Drawings.

Piezometer readings are taken on a weekly basis. The results from the monitoring are shown on Figures 5.1 to 5.8. Locations of the piezometers are presented on the attached Drawings.

Foundation Piezometers

No substantial changes were noted in the remaining foundation piezometers with the exception of D2-PE2-01, which increased slightly.

Fill Piezometers

Knight Piésold CONSULTING

The majority of the Main Embankment glacial till piezometers responded to construction of the overlying Stage 3A fills with increasing pore pressures. Generally, these piezometers are now fully dissipated, as a constant, horizontal trend has been showing for some time now.

Two piezometers located within the Stage 1A glacial till fill have historically registered anomalous values, and warrant discussion.

Piezometer B2-PE2-03 reacted strongly to fill placement during initial construction. Pore pressures did not dissipate in the periods following fill placement, but remained constant. This is in direct contrast to other instruments located nearby. This trend changed in 1999, when B2-PE2-03 began to show dissipation at the completion of fill placement. This new trend has been repeated three times, with approximately the same dissipation rate after each stage of construction, with an increase in pore pressure between 50 and 100% of the increase in total stress. It appears that drainage paths were limited in the fill around this piezometer and pore pressures are still equilibrating.

Piezometer C2-PE2-05 is also located in the Stage 1A glacial till fill. This instrument historically showed little or no reaction to construction, but indicated a slow, steady increase in pore pressure over time. This suggests that pore pressures in the fill around C2-PE2-05 are reaching a steady state condition as the phreatic surface moves through the fill. It should be noted that the pressure head registered by this piezometer is approximately 10 m. This is similar to other piezometers located in comparable locations in the glacial till fill.

Drain Piezometers

All drain piezometers have remained static and at very low head indicating free draining conditions within the embankment drainage systems.

Tailings Piezometers

Water levels at the tailings piezometers continue to mimic the pond level, except at the Main Embankment, where the upstream toe drain has resulted in a depressed phreatic surface.

5.3 DRAIN FLOWS

Drains flows were recorded on July 20, 2001. The results from the foundation drains and upstream toe drain are shown on Figures 5.9 and 5.10, respectively. The flows from the foundation drains were quite high, reflecting the large amount of rainfall that occurred during the reporting period.

5.4 SLOPE INCLINOMETERS

The equipment to monitor, record and evaluate the data from the slope inclinometers is expected to be on site during the first week of August. Exact depths of the inclinometers will be determined and calibration measurements will be carried out at that time.

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

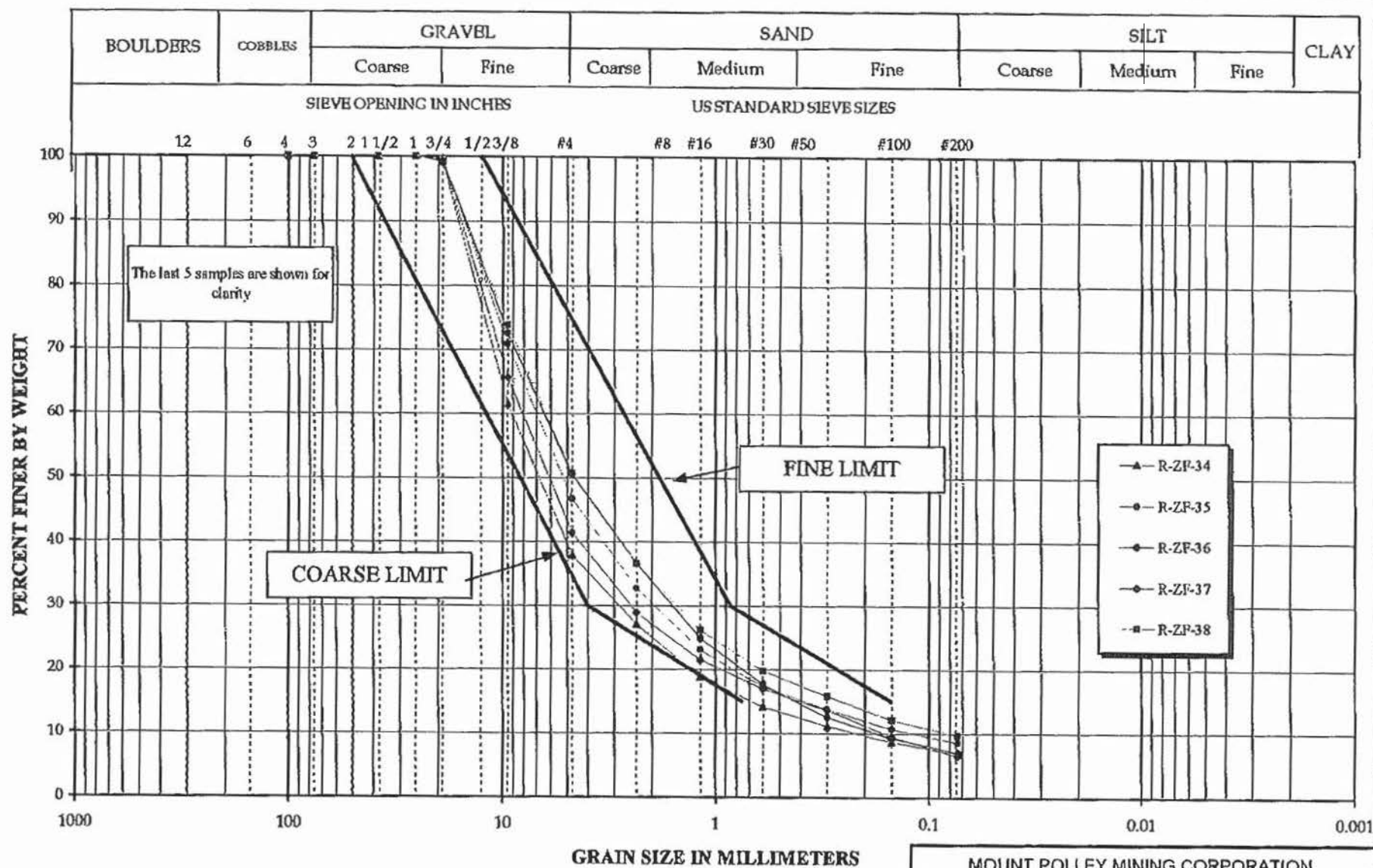
H:\ENGD\DATA\Env\loc\Control\air\log\air\Stage 3B Construction\lab\record\{R-ZF-numm.xls}\Data Sheet

Note: These are 100% limits.

Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

IP - In progress

- | | |
|----|--|
| R1 | Atterberg Limits (ASTM D4318) |
| R2 | Moisture Content (ASTM D2216) |
| R3 | Particle Size Distribution (ASTM D422) |
| R4 | Laboratory Compaction (ASTM D1557) |
| R6 | Specific Gravity (ASTM D854) |



MOUNT POLLEY MINING CORPORATION

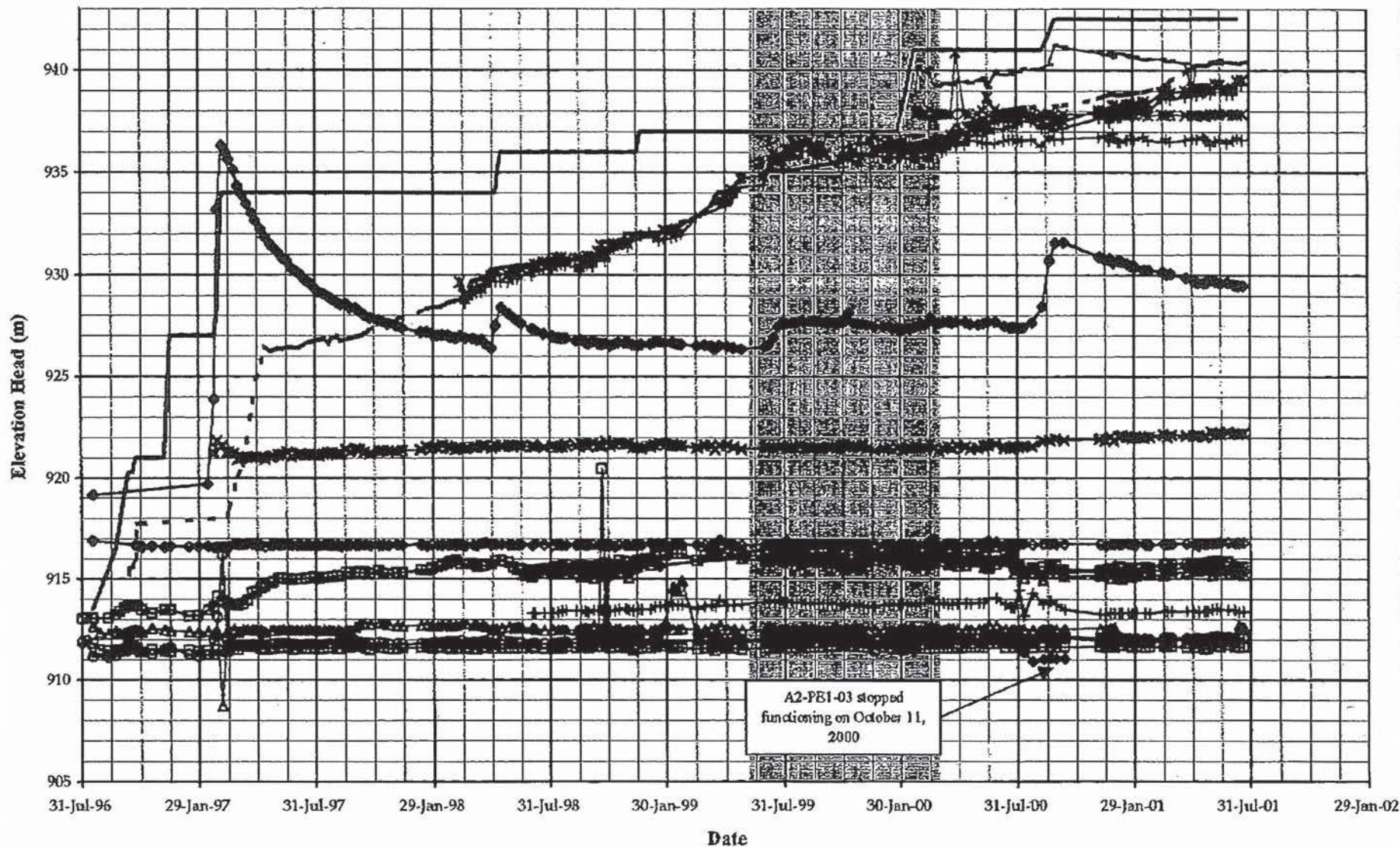
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3B
CONSTRUCTION - ZONE F RECORD SAMPLES

GRADATION CURVES

Knight Piésold
CONSULTINGPROJECT NO. 11152/14
REF. NO. REV.

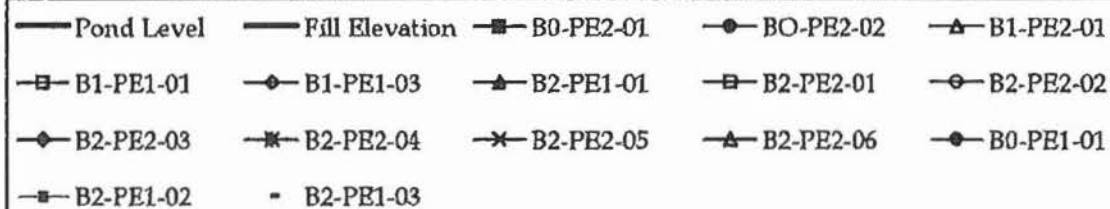
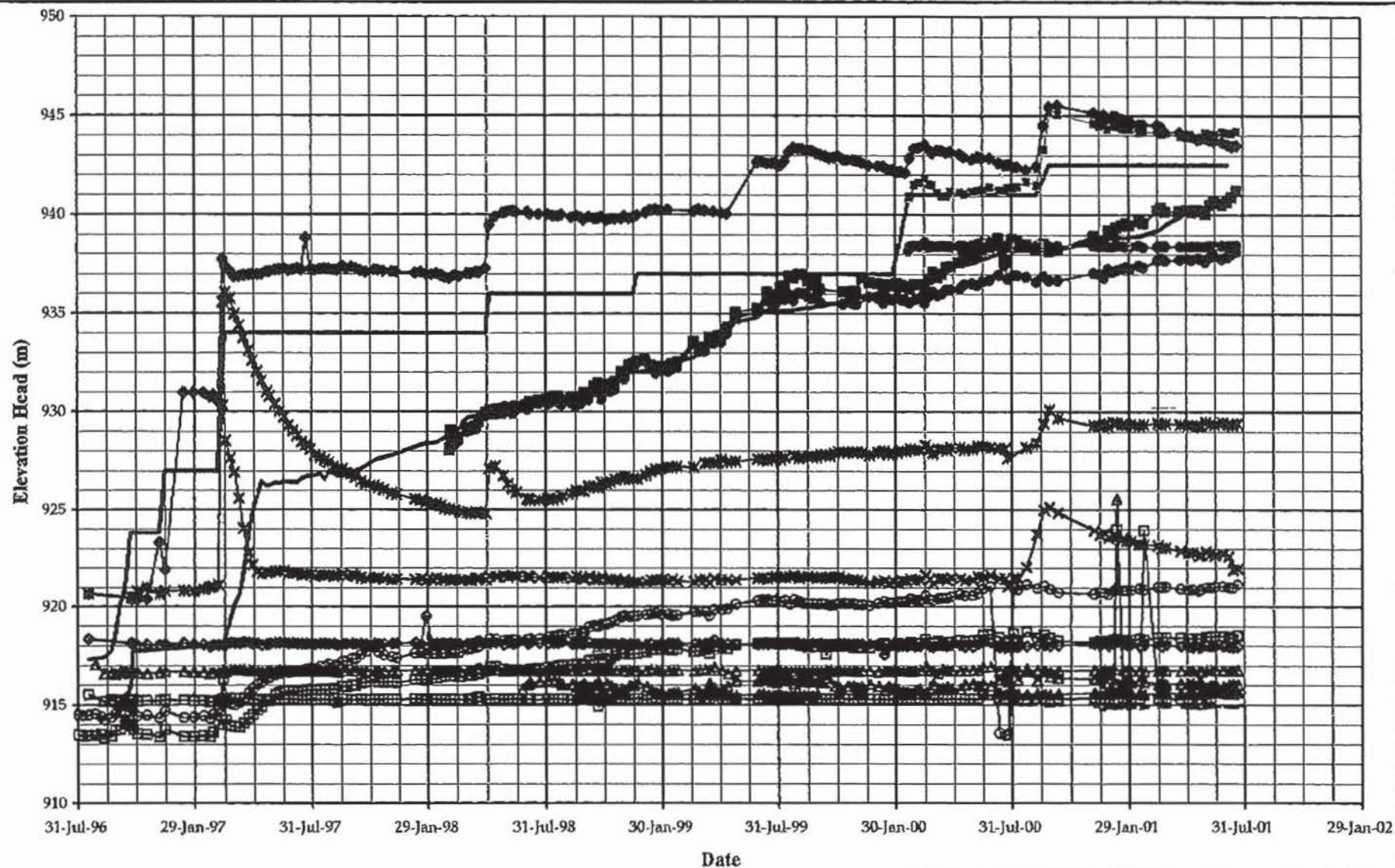
FIGURE 4.2



A2-PE1-03 stopped
functioning on October 11,
2000

— Pond Level	— Fill Elevation	— A0-PE2-01	— A0-PE2-02
— A1-PE1-01	— A1-PE1-02	— A1-PE1-03	— A2-PE1-01
— A2-PE2-01	— A2-PE2-02	— A2-PE2-03	— A2-PE2-05
— A2-PE2-06	— A2-PE2-07	— A2-PE2-08	— A1-PE1-04
— A2-PE1-02	— A0-PE1-01	— A2-PE1-03	

MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY		
PLANE A PIEZOMETERS		
GRAPH OF ELEVATION HEAD vs. TIME		
Knight Piésold CONSULTING	PROJECT NO. 11162/14	REF. NO. REV.
	FIGURE 5.1	



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

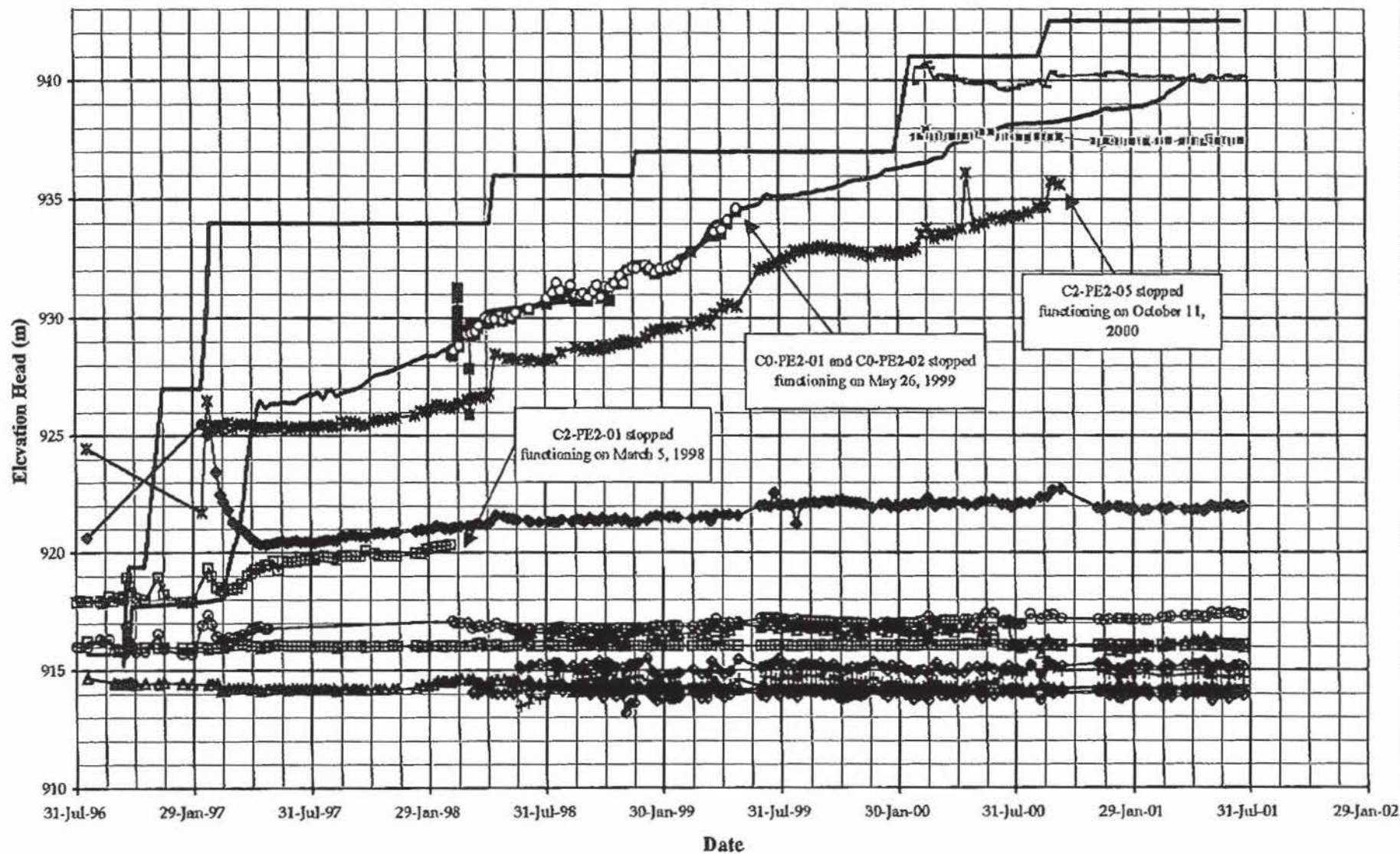
PLANE B PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold
 CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 5.2

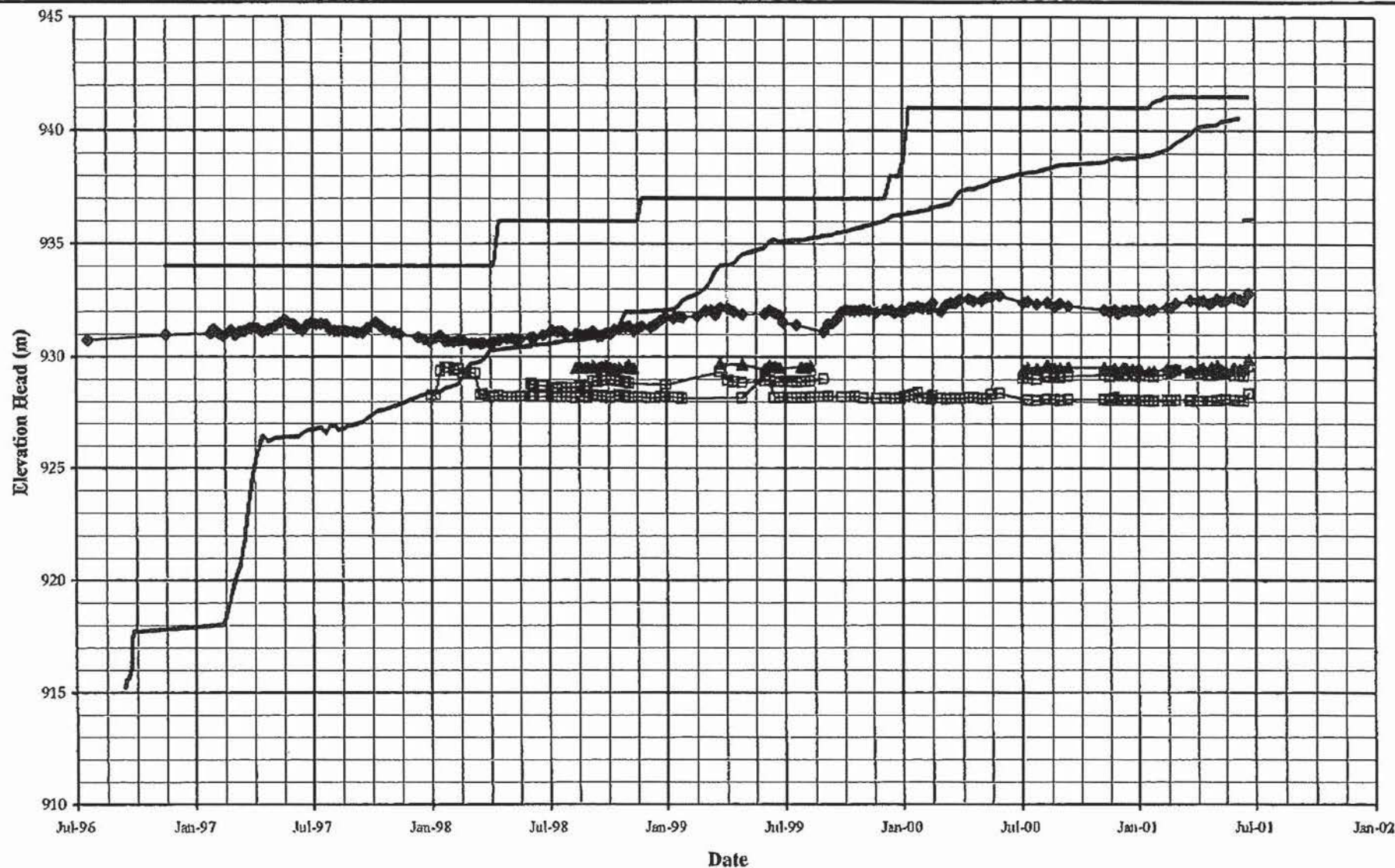


— Pond Level	— Fill Elevation	■ C0-PE2-01	○ C0-PE2-02	▲ C1-PE1-01
▣ C1-PE1-02	◆ C1-PE1-04	▲ C2-PE1-01	▣ C2-PE2-01	● C2-PE2-02
◆ C2-PE2-03	✱ C2-PE2-05	▲ C2-PE2-06	● C2-PE2-07	+ C2-PE2-08
■ C0-PE1-01	— C2-PE1-02	- C2-PE1-03		

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE C PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold
CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		
FIGURE 5.3		



— Pond Level — Fill Elevation —□— D1-PE1-02 —▲— D2-PE1-01
 —◆— D2-PE2-01 —□— D2-PE2-02 - D1-PE1-03

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TAILINGS STORAGE FACILITY

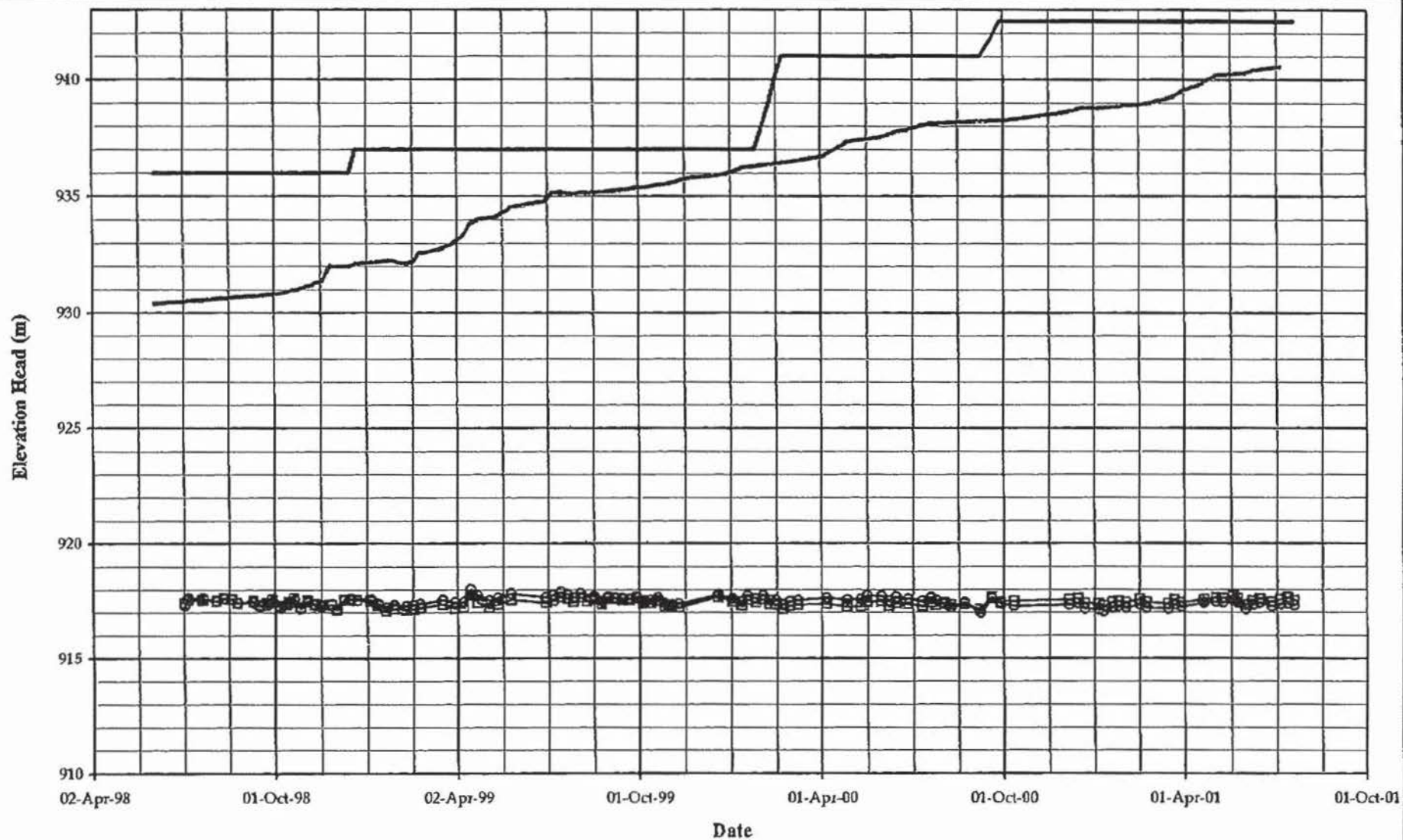
PLANE D PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

Knight Piesold
CONSULTING

PROJECT NO. 11182/14	REF. NO.	REV.
-------------------------	----------	------

FIGURE 5.4



— Pond Level

—— Fill Elevation

—□— B2-PE2-01

—E2-PE2-02

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

PLANE E PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

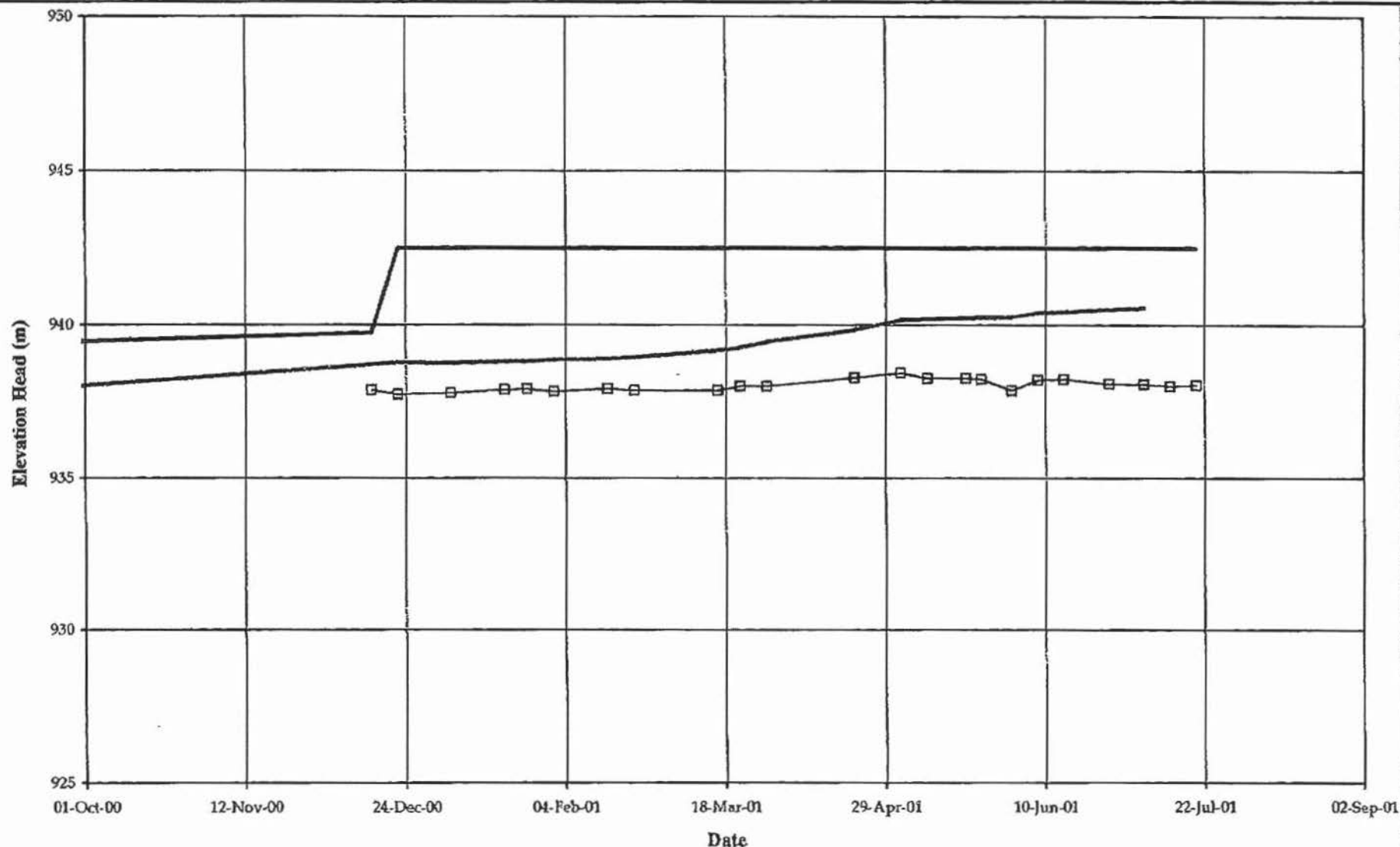
Knight Piésold
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PROJECT NO.	11162/14
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REF. NO.	
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REV.

FIGURE 5.5



— Pond Level — Fill Elevation —□— F2-PE2-01

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MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

PLANE F PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

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PROJECT NO. 11162/14	REF. NO.	REV.
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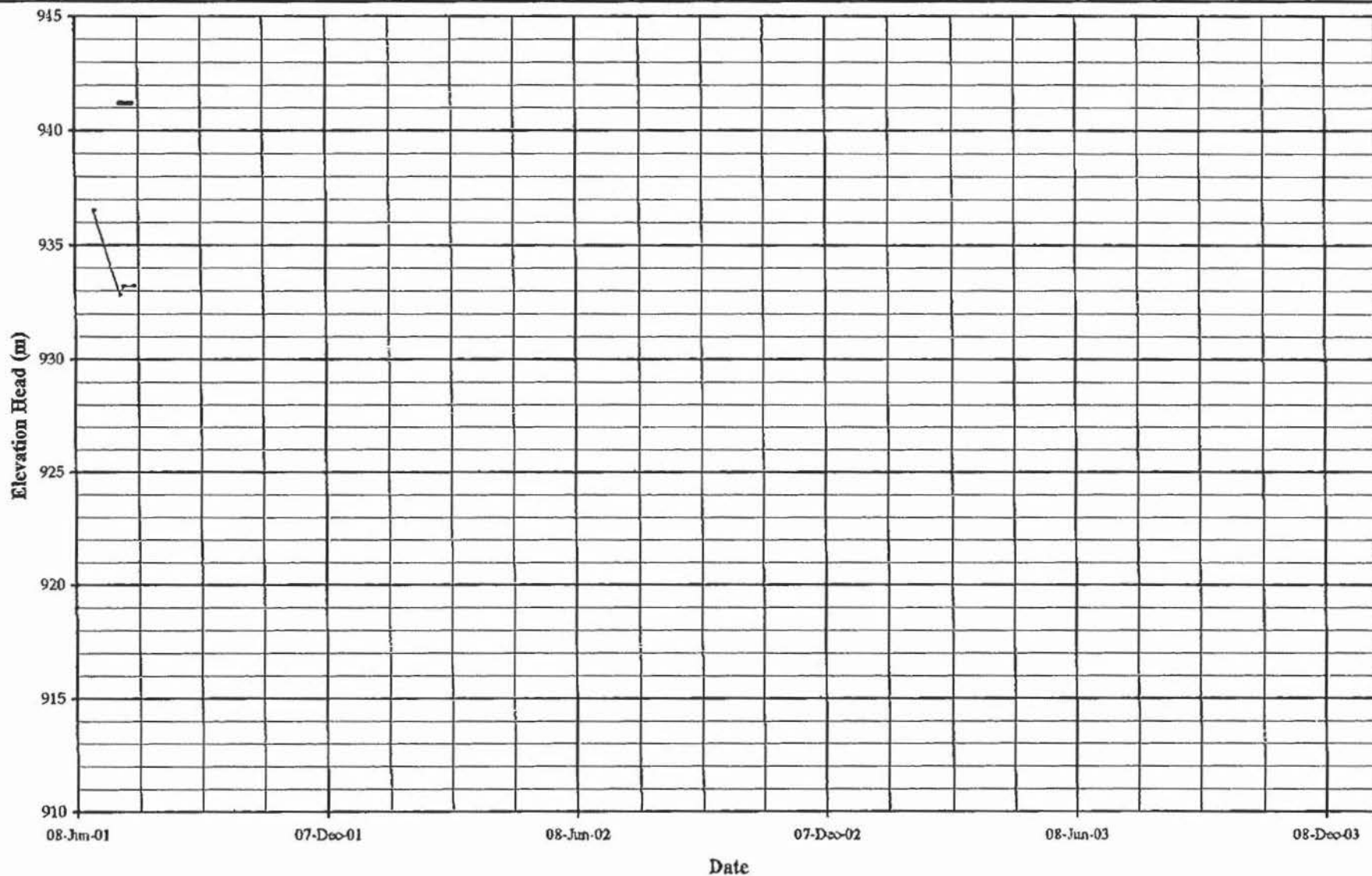
FIGURE 5.6

— Pond Level — Fill Elevation x G1-PE1-01

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REV.

FIGURE 5.7



— Pond Level — Fill Elevation — H1-PE1-01

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MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

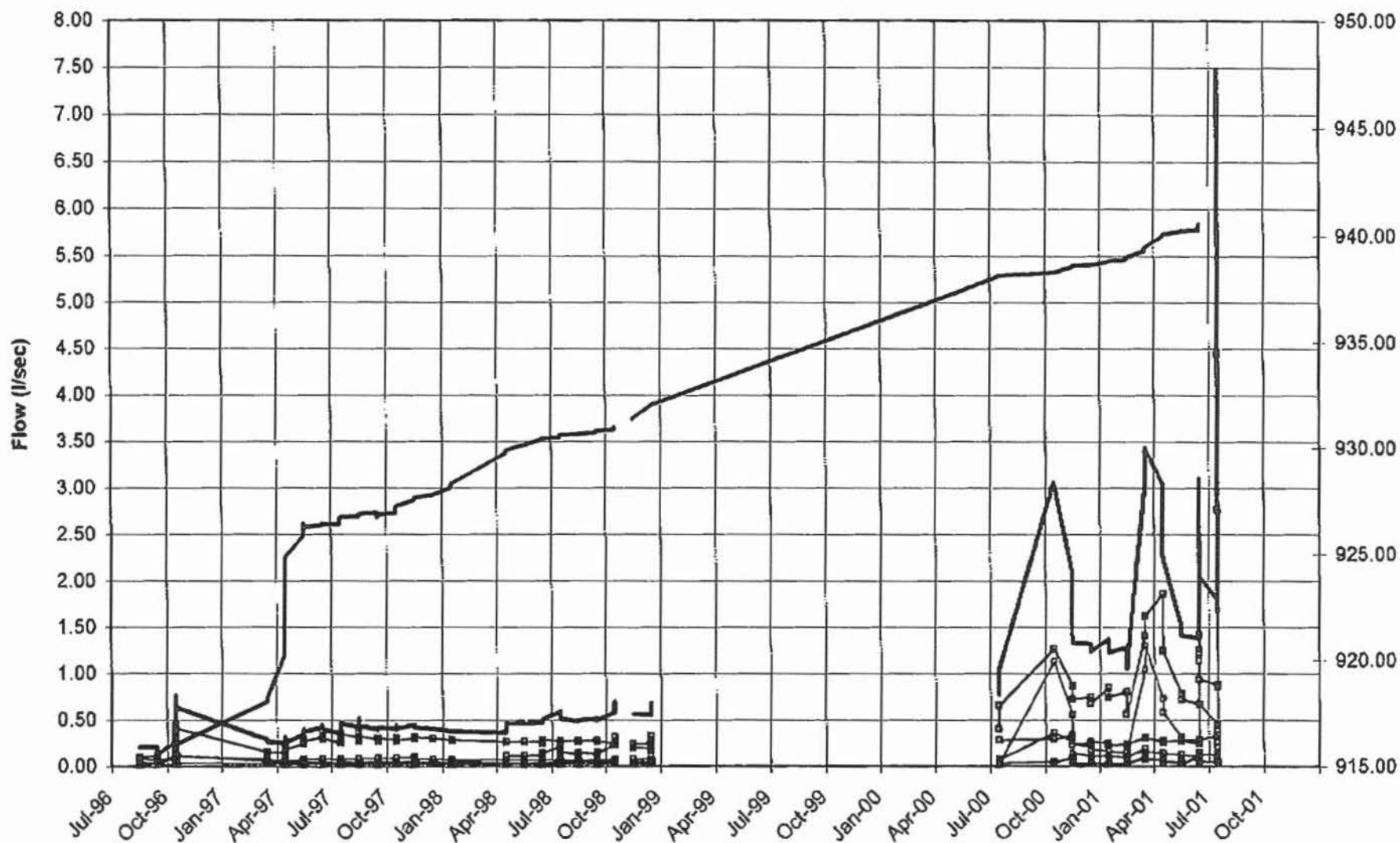
PLANE H PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

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PROJECT NO. 11162/14	REF. NO.	REV.
-------------------------	----------	------

FIGURE 5.8



—●— FD-1	—●— FD-2	—●— FD-3
—●— FD-4	—●— FD-5	— Pond Elevation

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TAILINGS STORAGE FACILITY

MAIN EMBANKMENT

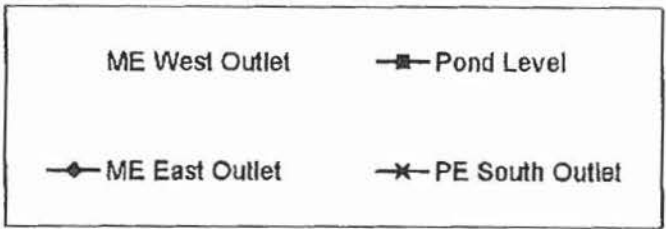
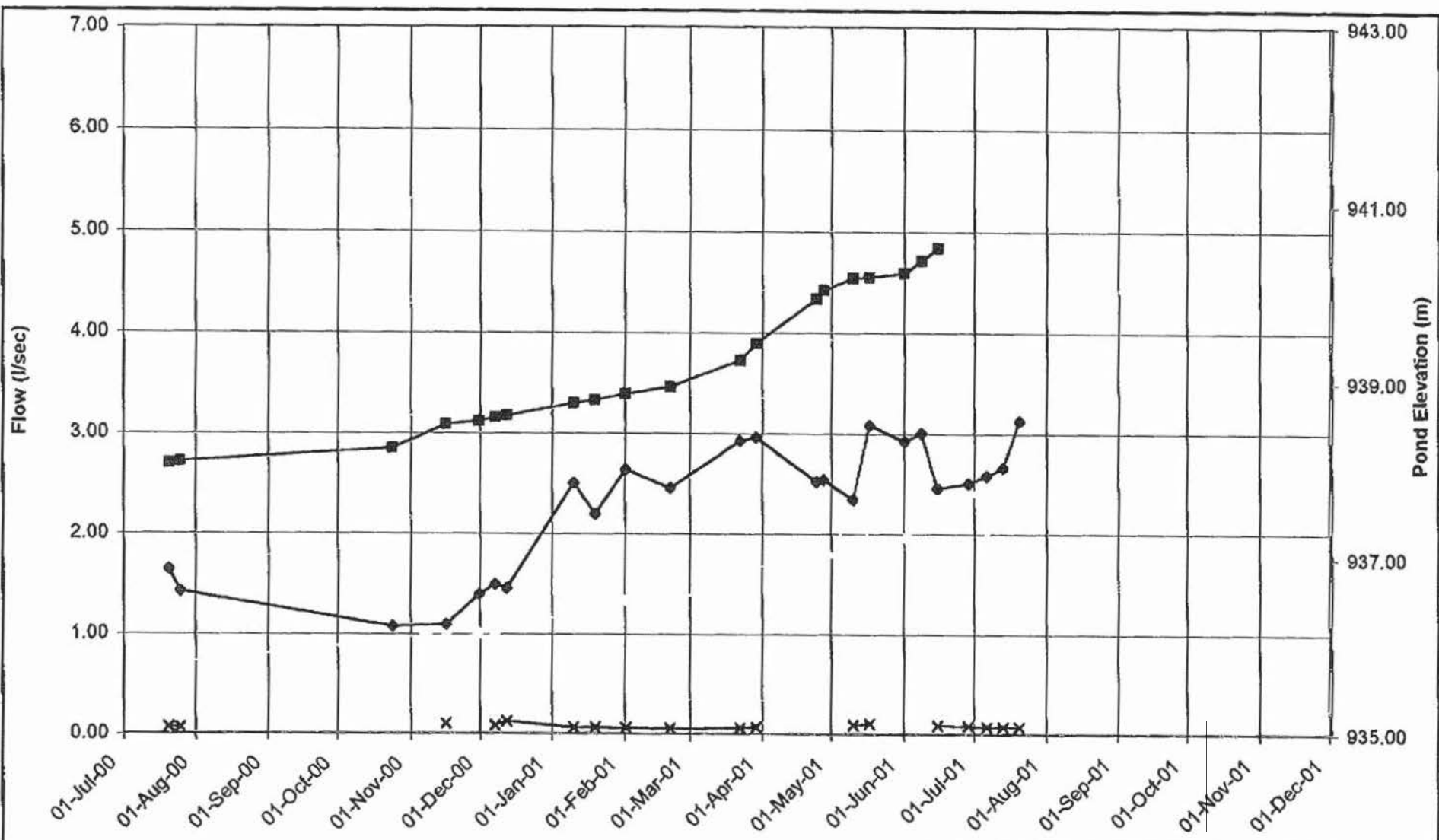
FOUNDATION DRAIN FLOWS

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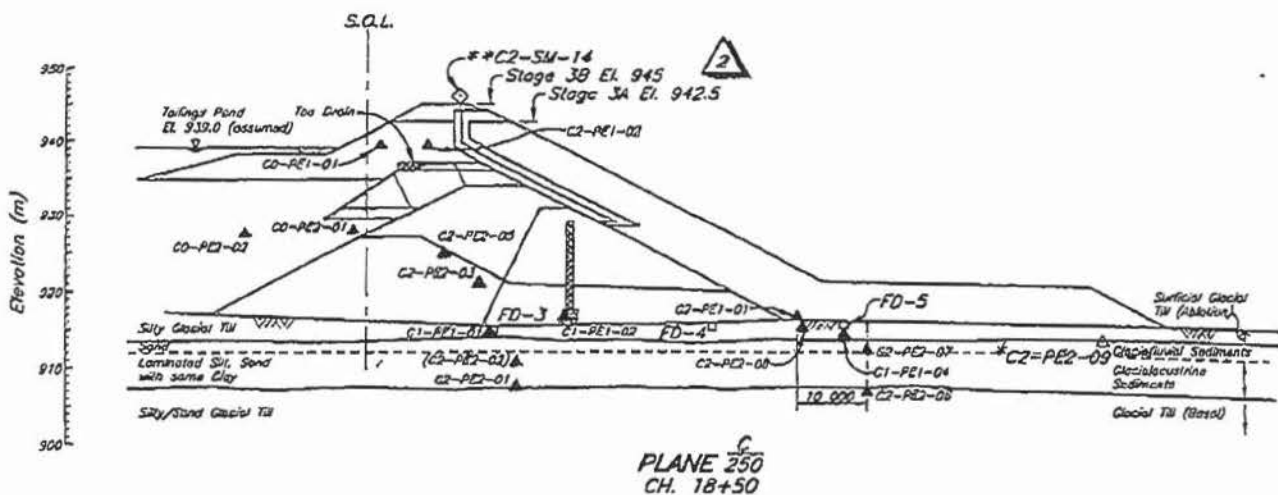
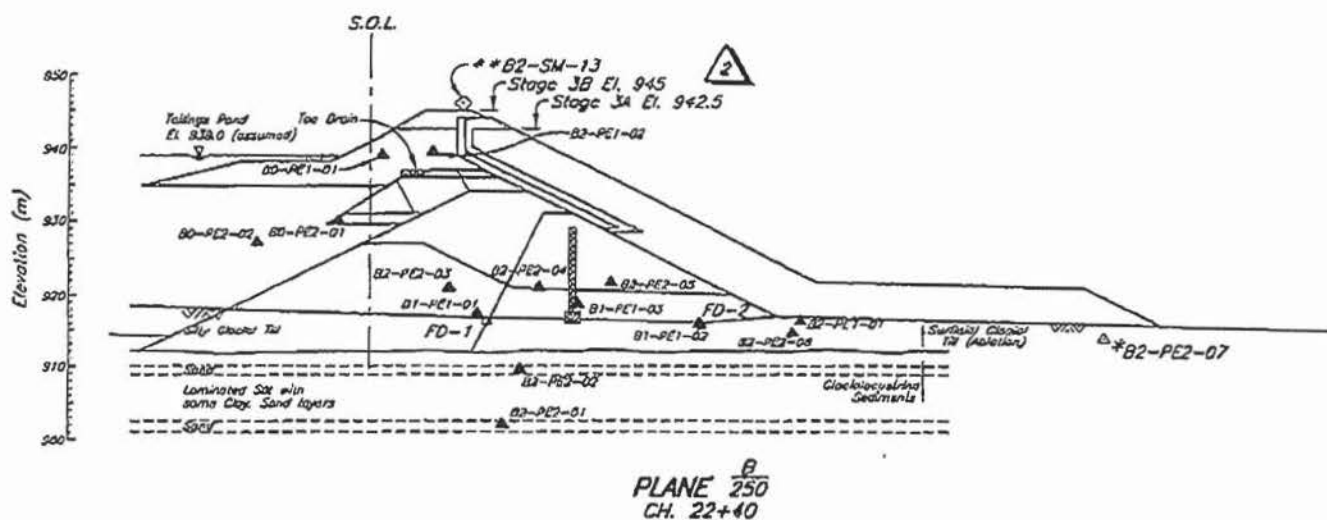
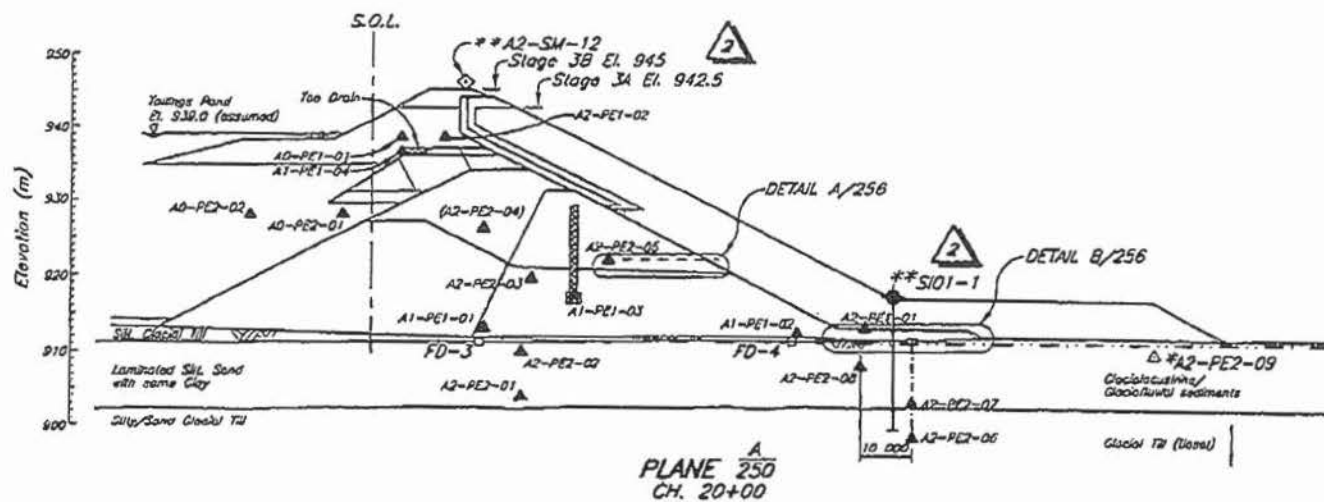
PROJECT NO. 11162/14	REF. NO.	REV.
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FIGURE 5.9

RECORDS 13 Page 333 of 438
0077 06/ 07 10:07 T007 02.7000
MOUNT POLLEY MINING CORP.
250 790 2268 PAGE.018

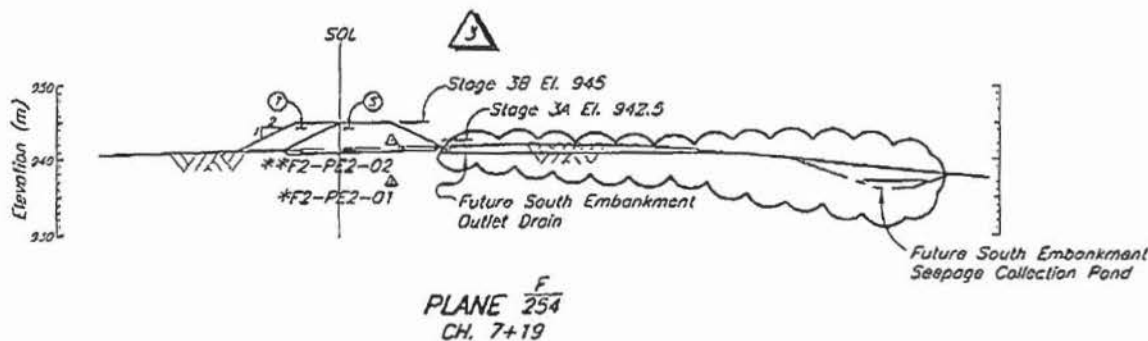
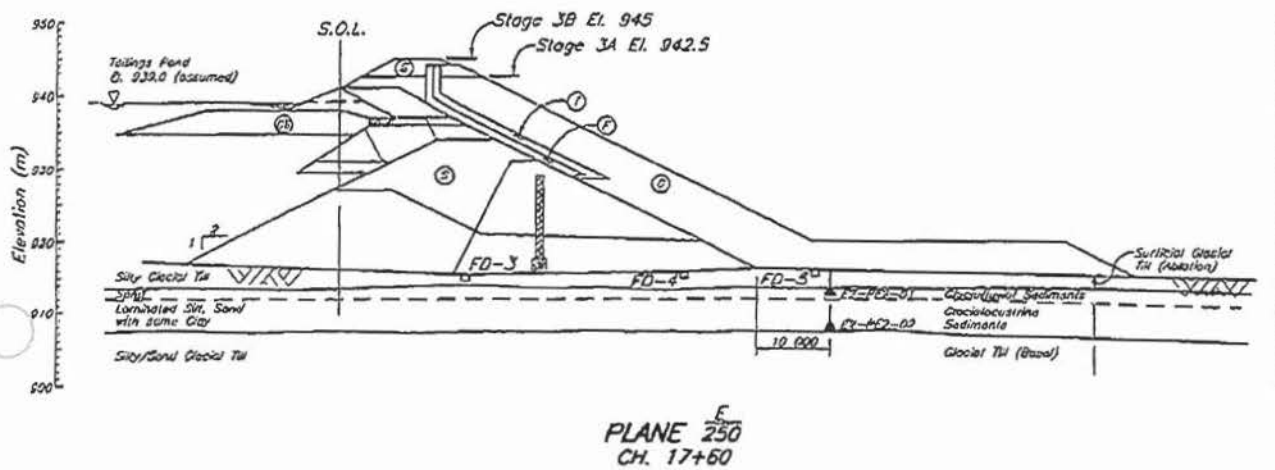
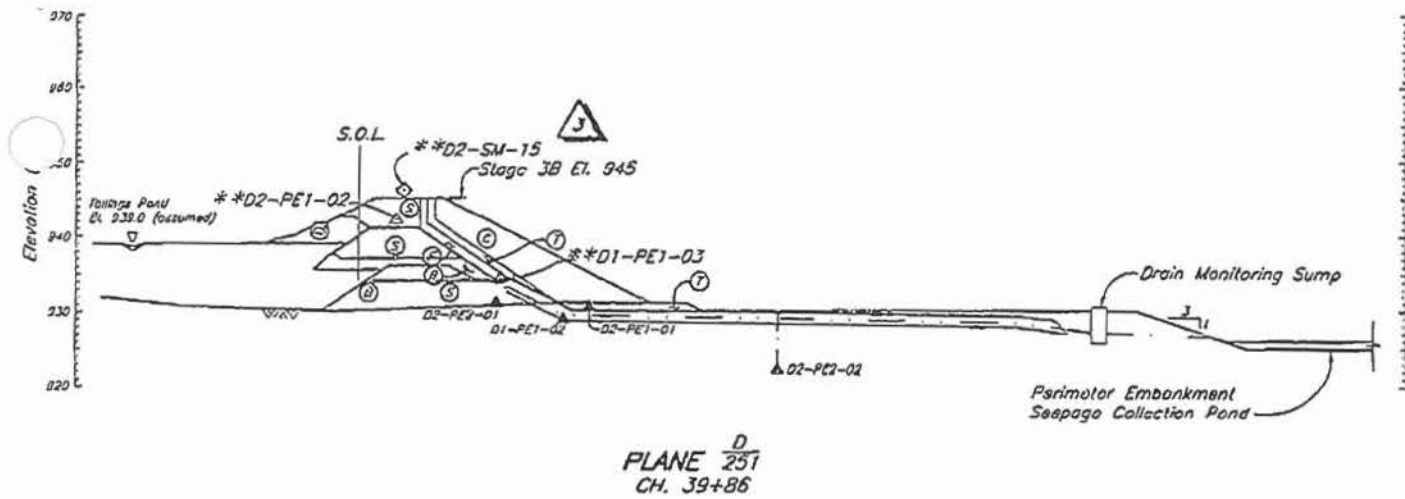


MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY UPSTREAM TOE DRAIN FLOWS		
Knight Piesold CONSULTING		
PROJECT NO. 11162/14	REF. NO.	REV.
FIGURE 5.10		



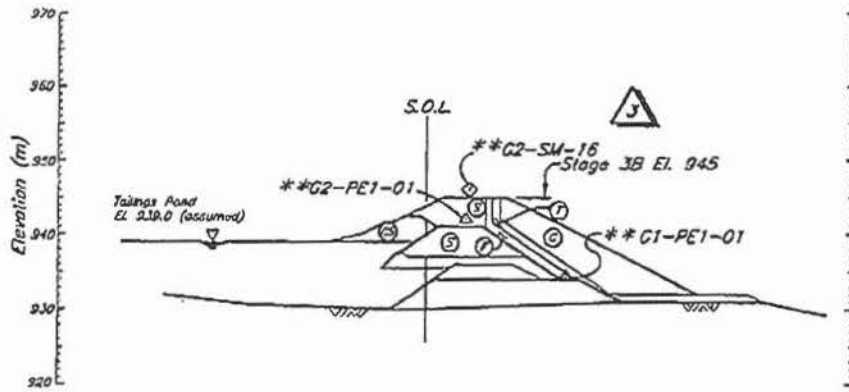
STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SECTIONS 2 OF 2
STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SUMMARY OF INSTALLATION & TYP. DETAILS
STAGE 3 MAIN EMBANKMENT - INSTRUMENTATION - PLAN
DESCRIPTION
REFERENCE DRAWINGS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APPR'D	REV.	DATE
2	08MAY'01	ISSUED FC						
1	26JAN'01	STAGE 3B						
0	2JUN'00	ISSUED FC						

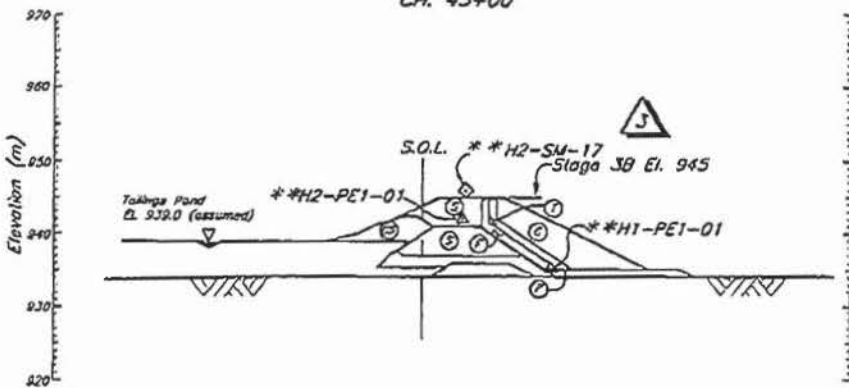


STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION SUMMARY OF INSTALLATION & TYPICAL DETAILS
STAGE 3 TAILINGS EMBANKMENT - SOUTH EMBANKMENT - INSTRUMENTATION PLAN
STAGE 3 PERIMETER EMBANKMENT - INSTRUMENTATION PLAN
STAGE 3 TAILINGS EMBANKMENT - MAIN EMBANKMENT - INSTRUMENTATION PLAN
DESCRIPTION
REFERENCE DRAWINGS

3	08MAY'01	ISSUED FOR
2	26JAN'01	STAGE 3B
1	20OCT'00	PEREMETER
0	2JUN'00	ISSUED FOR
0	REV.	DATE



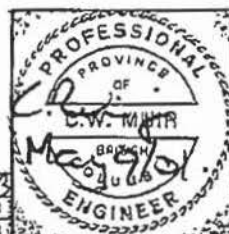
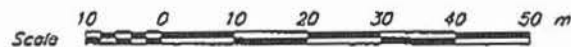
PLANE $\frac{G}{251}$
CH. 43+00



PLANE $\frac{H}{251}$
CH. 36+00

NOTE

- See Drg. No. 11162-13-256 for Summary of Instrumentation Installations, Typical Details, General Notes and Legend.
- Instrumentation with one asterisk indicates placement during Stage 3A construction. Instrumentation with 2 asterisks indicate placement during Stage 3B construction.



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**TAILINGS STORAGE FACILITY
STAGE 3 TAILINGS EMBANKMENT
INSTRUMENTATION
SECTIONS - SHEET 2 OF 2**

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SCALE: AS SHOWN
REVISION: 3
DRAWING NO.: 11162-13-259

STAGE 3B TENDER	CWM	DSR	JRK	KJB
B - CREST ELEVATION 945	JRK	AW	JMTW	KJB
ER EMBANKMENT SECTIONS ADDED	JRK	NSD	JMTW	KJB
FOR CONSTRUCTION	JRK	TAM	ABW	KJB
DESIGN	DESIGN	GRAPH	CHK'D	APP'D
REVISIONS	DESIGN	GRAPH	CHK'D	APP'D

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Mount Polley Site Office Fax: (250) 790-2268
www.knightpiésold.com

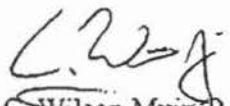
DATE: July 31, 2001 FILE NO.: 11162/14.F01/.F02/
.F04/.F05/.F08
TIME:
REF NO.: 01-25
OPERATOR: PAGES: 1 of 25
SENDER: Wilson Muir

TO: Ministry of Energy and Mines, Victoria B.C. FAX: 250-952-0481
ATTN: Chris Carr
CC: Ken Brouwer, KP Vancouver
Don Parsons / Eric LeNeve, MPMC Site
SUBJECT: Progress Report No. 16

Dear Mr. Carr,

Please find enclosed a copy of Progress Report No. 16 from July 23 to July 29, 2001. If you have any questions, please do not hesitate to contact me on site or Ken Brouwer in our Vancouver office.

Regards,


C. Wilson Muir, P.Eng.
Resident Engineer
Knight Piésold Consulting

MINISTRY OF
ENERGY AND MINES

REC'D JUL 31 2001

The content of this communication is confidential. If you are not the intended recipient, please notify us immediately. Unauthorized use or disclosure of this communication or its content is unlawful.



MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
PROGRESS REPORT NO. 16 – JULY 23 TO JULY 29, 2001

SECTION 1.0 - GENERAL

Mount Polley Mining Corporation (MPMC) continued Stage 3B construction activities. Knight Piésold Ltd. (KP) carried out QA/QC activities during the reporting period.

The scope of work includes placement of Zones S, F, T and C to El. 942.5 m on the Perimeter Embankment (Ch. 28+00 to 44+50). MPMC is carrying out the majority of this work. Hauling of Zone F from the millsite to the TSF and hauling of Zone S from the borrow area to the TSF is being completed by sub-contractors.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- Wilson Muir, Resident Engineer.

The following MPMC personnel were on site during the reporting period:

- | | |
|------------------|----------------------|
| ▪ Don Parsons | Mine Superintendent |
| ▪ Eric LeNeve | Tailings Coordinator |
| ▪ Charlie O'Hara | General Foreman |
| ▪ Don Jameson | Site Foreman |
| ▪ Ron Gale | Site Foreman |

1.2 CONTRACT DEVELOPMENTS

MPMC has decided to contract out the majority of the Zone S haul between the borrow area and the TSF. MPMC will still be responsible for spreading, grading and compaction of the Zone S material.

1.3 DESIGN DEVELOPMENTS

No new design developments occurred during the reporting period.

1.3 WEATHER

Conditions were generally rainy with cloudy and sunny periods during the reporting period. Maximum daytime highs reached about +20 °C and nightly lows sank to as low as +7 °C.

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1.4 SAFETY

No new safety incidents occurred over the reporting period.

SECTION 2.0 - TAILINGS FACILITY OPERATION AND MAINTENANCE

Tailings were spigotted along the Main Embankment crest during the reporting period at approximate Chainage 26+00 to obtain a well developed, even beach at the Main Embankment. The tailings line will then be moved to the ridge between the Main and South Embankments. It is anticipated that tailings will form a substantial beach in this area by discharging at this location.

The Tailings Pond remains a significant distance from the Perimeter Embankment.

SECTION 3.0 - CONSTRUCTION ACTIVITIES

3.1 EQUIPMENT

MPMC used the following equipment over the reporting period:

- Excavators: 1 Hitachi EX 270, 1 Hitachi EX 400
- Haul Trucks: 2 Caterpillar 777 85T
- Loaders: 1 Caterpillar 992B
- Dozers: 1 Caterpillar D6, 1 Caterpillar D8K, 1 Caterpillar D7G
- Compactors: 1 Caterpillar CS 563 10T vibratory smooth drum
- Graders: 1 Caterpillar 14G
- Service, water and fuel trucks

MPMC carried out the following activities during the reporting period:

- Placement of Zone F fill, Perimeter Embankment: Ch. 33+00 to 36+75 and 40+50 to 43+00, El. 933.0 to 941.0 m.
- Crushing of Zone F at the millsite.
- Placement of Zone T fill, Perimeter Embankment: Ch. 42+50 to 43+25, El. 932 to 941.0 m.
- Cleaning of existing slopes in preparation for Zone F material.
- Development of the Rock Borrow for Zone T material.

Zone T was supplied from the Rock Borrow, while Zone F was delivered from the stockpile at the millsite. Zone F was placed in a 1 m thick lift on the downstream embankment slope over stiff Zone S, while Zone T was placed upon Zone F in a 1 metre thick lift.

SECTION 4.0 - KNIGHT PIÉSOLD ACTIVITIES

4.1 GENERAL

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KP activities over the reporting period included the following:

- Monitoring and inspection of fill placement of Zones F and T.
- Submission of daily summaries of QA/QC and construction activities to MPMC.
- Control and Record sampling and testing of embankment fill materials.
- Ongoing discussions and correspondence with MPMC and KP Vancouver with regard to current and future design.
- Preparation of progress reports.

4.2 Laboratory Testing

The following samples were processed during the reporting period:

- C-ZF-44 and 45
- R-ZF-39 and 40
- R-ZT-16

C-ZF-44 failed on the fine side of the gradation specification for Zone F. The pile was re-mixed with a dozer and C-ZF-45 was collected and tested. The results from this testing showed that the material was acceptable for Zone F.

R-ZF-39 failed the grain size specification for Zone F on the coarse side. However, it has been shown previously that the filter relationship criteria remains with the Zone S and Zone T materials for Zone F samples of this type. Re-testing of this material is not required due to these circumstances.

The remaining record tests completed during the reporting period proved suitable for their respective zones. All tests carried out during the reporting period are presented in the attached tables and figures.

SECTION 5.0 - MONITORING

5.1 GENERAL

Instrumentation was monitored during the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

5.2 VIBRATING WIRE PIEZOMETERS

No new piezometers were installed during the reporting period.

Piezometer readings are taken on a weekly basis. The results from the monitoring are shown on Figures 5.1 to 5.8. Locations of the piezometers are presented on the attached Drawings.

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Foundation Piezometers

No substantial changes were noted in the remaining foundation piezometers with the exception of Plane D piezometers, which decreased slightly.

Fill Piezometers

The majority of the Main Embankment glacial till piezometers responded to construction of the overlying Stage 3A fills with increasing pore pressures. Generally, these piezometers are now fully dissipated, as a constant, horizontal trend has been showing for some time now.

Two piezometers located within the Stage 1A glacial till fill have historically registered anomalous values, and warrant discussion.

Piezometer B2-PE2-03 reacted strongly to fill placement during initial construction. Pore pressures did not dissipate in the periods following fill placement, but remained constant. This is in direct contrast to other instruments located nearby. This trend changed in 1999, when B2-PE2-03 began to show dissipation at the completion of fill placement. This new trend has been repeated three times, with approximately the same dissipation rate after each stage of construction, with an increase in pore pressure between 50 and 100% of the increase in total stress. It appears that drainage paths were limited in the fill around this piezometer and pore pressures are still equilibrating.

Piezometer C2-PE2-05 is also located in the Stage 1A glacial till fill. This instrument historically showed little or no reaction to construction, but indicated a slow, steady increase in pore pressure over time. This suggests that pore pressures in the fill around C2-PE2-05 are reaching a steady state condition as the phreatic surface moves through the fill. It should be noted that the pressure head registered by this piezometer is approximately 10 m. This is similar to other piezometers located in comparable locations in the glacial till fill.

Drain Piezometers

All drain piezometers have remained static and at very low head indicating free draining conditions within the embankment drainage systems.

Tailings Piezometers

Water levels at the tailings piezometers continue to mimic the pond level, except at the Main Embankment, where the upstream toe drain has resulted in a depressed phreatic surface.

5.3 DRAIN FLOWS

Drains flows were recorded on July 26, 2001. The results from the foundation drains and upstream toe drain are shown on Figures 5.9 and 5.10, respectively. The flows from the

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foundation drains decreased significantly, as rainfall was substantially less than the last reporting period.

5.4 SLOPE INCLINOMETERS

The equipment to monitor, record and evaluate the data from the slope inclinometers is expected to be on site during the first week of August. Exact depths of the inclinometers will be determined and calibration measurements will be carried out at that time.

SECTION 6.0 - ONGOING ITEMS

The following items will be addressed during upcoming reporting periods:

- MPMC will continue to construct the Stage 3B Perimeter Embankment to El. 942.5 m.
- The slope inclinometers will be measured and calibrated.
- KP will continue to provide QA/QC and site supervision activities in accordance with the technical specifications.

Submitted by,



C. Wilson Muir, P.Eng.

Resident Engineer

Knight Piésold Consulting.

Distribution: Eric LeNeve, Tailings Coordinator, MPMC Site
Don Parsons, Mine Superintendent, MPMC Site
Chris Carr, Ministry of Energy and Mines, Victoria, B.C.
Ken Brouwer, KP Vancouver

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

II-VI XG DATA by U.S. Govt. Sales Agency, Suite 214, Commerce/2150 Capital Circle, SE, Gainesville, Fla. 32601

X-axis: Thrust in 10% units.

Values for Standard Proctor maximum dry density and optimum moisture content included: organic content.

IP - In progress

- | | |
|----|--|
| C1 | Attapberg Linnis (ASTM D4318) |
| C2 | Moisture Content (ASTM D2216) |
| C3 | Particle Size Distribution (ASTM D422) |
| C4 | Leakage Compaction (ASTM D1533) |
| C6 | Specific Gravity (ASTM D854) |

TABLE 4.1

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 1B CONSTRUCTION

ZONE F RECORD TEST SUMMARY SHEET

H:\PROJECTS\DATA\Tailings Storage Facility\Stage 1B Construction\Zone F\Zone F Summary Data Sheet

Knight Piésold CONSULTING										SHEET: 1 of 1																	
PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 1B CONSTRUCTION										PERIOD: July 23 to July 29, 2001																	
MATERIAL: Zone F - Plant Silt										PROJECT NO.: 1116214																	
										AREA: TSP																	
Sample No.	Date Sampled	Location	U (m)	C1			C2	L3	C3 (Particle Size Distribution)												C4			C5			
				Atterberg Limits					101.6	76.2	15.1	25.4	19.05	9.575	4.75	2.36	1.18	0.6	0.3	0.150	0.075	0.0075	0.0001		Standard Proctor		
				PL	LL	PI																				Max Dry Density kg/m ³	Optimum Moisture %
				%	%	%																				%	%
R-2F-31	24-Jul-01	2740, 0.5 m NW of Zone F	941.8	-	-	-	4.0	-	100.0	100.0	100.0	100.0	99.3	71.5	49.1	35.9	25.8	19.3	15.0	12.6	9.1	-	-	-	-		
R-2F-32	28-Jul-01	3740, 0.5 m NW of Zone F	935.0	-	-	-	4.1	-	100.0	100.0	100.0	100.0	99.7	68.4	41.0	31.9	22.5	16.9	12.8	9.9	7.7	-	-	-	-		
R-2F-33	17-Jul-01	4740, 0.8 m NW of Zone F	935.0	-	-	-	7.0	-	100.0	100.0	100.0	100.0	97.9	68.8	41.7	34.8	24.8	17.2	10.6	8.5	6.9	-	-	-	-		
R-2F-34	20-Jul-01	3540, 0.8 m NW of Zone F	935.0	-	-	-	3.6	-	100.0	100.0	100.0	100.0	99.2	61.3	37.8	27.0	18.7	14.0	11.0	8.6	6.8	-	-	-	-		
R-2F-35	20-Jul-01	4340, 0.8 m NW of Zone F	937.0	-	-	-	4.5	-	100.0	100.0	100.0	100.0	99.4	70.8	45.6	32.6	23.0	17.2	13.7	10.6	8.3	-	-	-	-		
R-2F-36	10-Jul-01	3340, 0.8 m NW of Zone F	939.0	-	-	-	4.5	-	100.0	100.0	100.0	100.0	99.5	72.6	50.4	36.5	24.8	17.6	12.4	9.2	7.0	-	-	-	-		
R-2F-37	10-Jul-01	4340, 0.8 m NW of Zone F	937.0	-	-	-	4.5	-	100.0	100.0	100.0	100.0	99.6	63.6	40.3	27.8	21.8	16.9	13.5	9.8	6.4	-	-	-	-		
R-2F-38	19-Jul-01	3340, 1.0 m NW of Zone F	935.0	-	-	-	8.4	-	100.0	100.0	100.0	100.0	99.4	73.8	50.6	35.1	26.3	18.7	13.7	12.0	9.6	-	-	-	-		
R-2F-39	28-Jul-01	4340, 1.0 m NW of Zone F	941.0	-	-	-	2.3	-	100.0	100.0	100.0	100.0	99.9	51.6	35.2	28.0	17.7	12.6	9.4	9.3	5.7	-	-	-	-		
R-2F-40	28-Jul-01	3340, 1.0 m NW of Zone F	941.0	-	-	-	6.3	-	100.0	100.0	100.0	100.0	100.0	71.2	44.8	31.1	22.0	15.1	10.4	7.5	7.7	-	-	-	-		

Note: These are 100% limits.

Values for Standard Proctor maximum dry density and optimum moisture content include overmoisture correction.

IP - In progress

- R1 Atterberg Limits (ASTM D4318)
 R2 Moisture Content (ASTM D2216)
 R3 Particle Size Distribution (ASTM D422)
 R4 Laboratory Compaction (ASTM D1557)
 R6 Specific Gravity (ASTM D854)

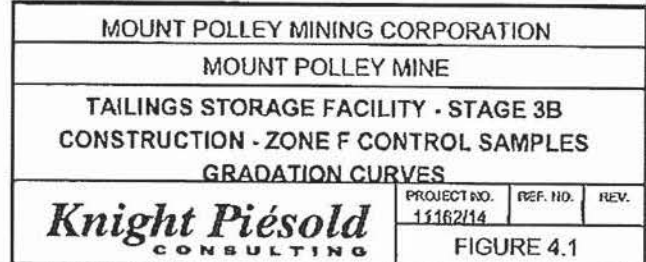
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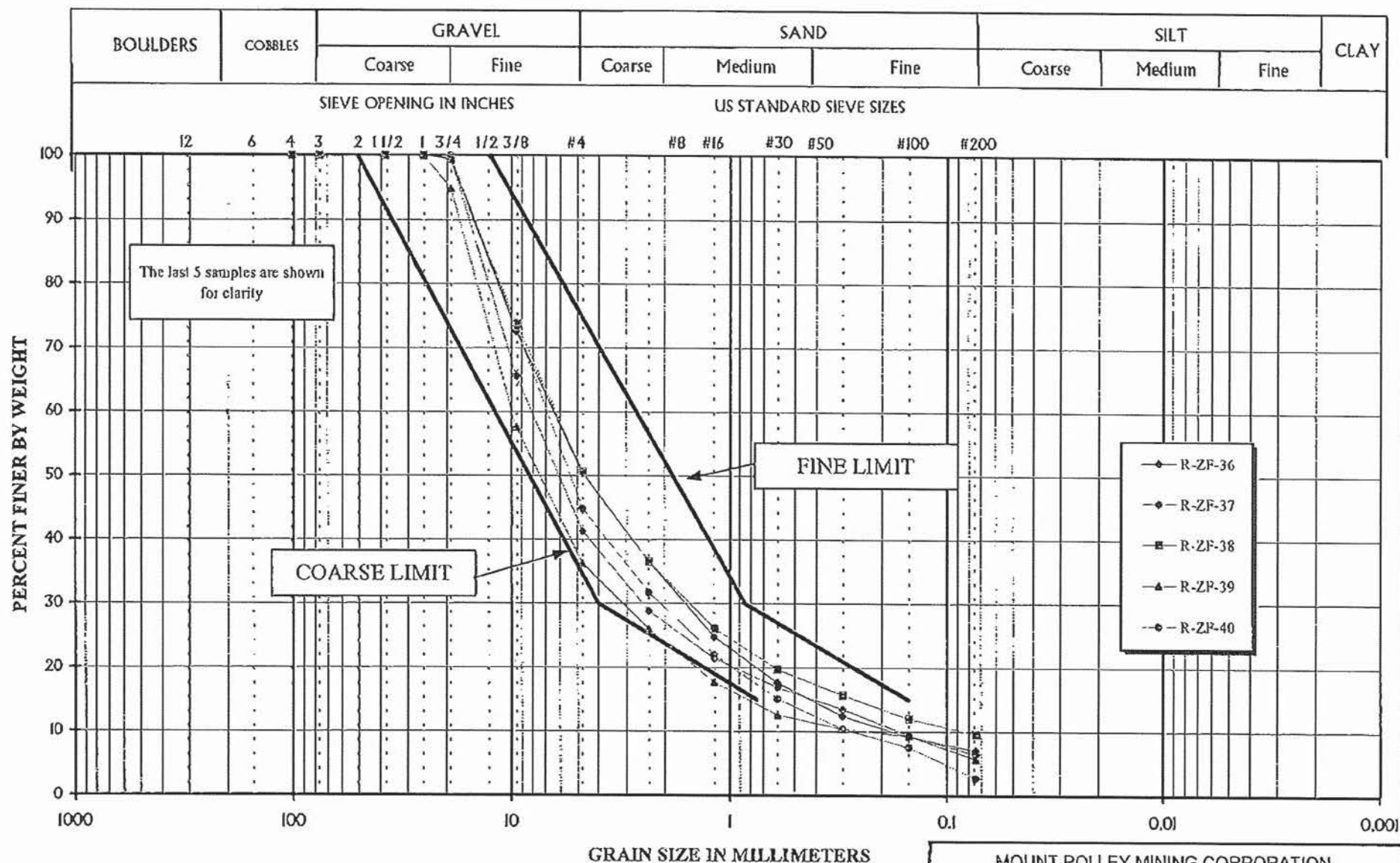
MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION
ZONE T RECORD TEST SUMMARY SHEET

H:\ENG\DATA\Eng\mnt\Gsets\data\stage3b\records\RT-ZT-summr\k\Date Sheet

20/07/01

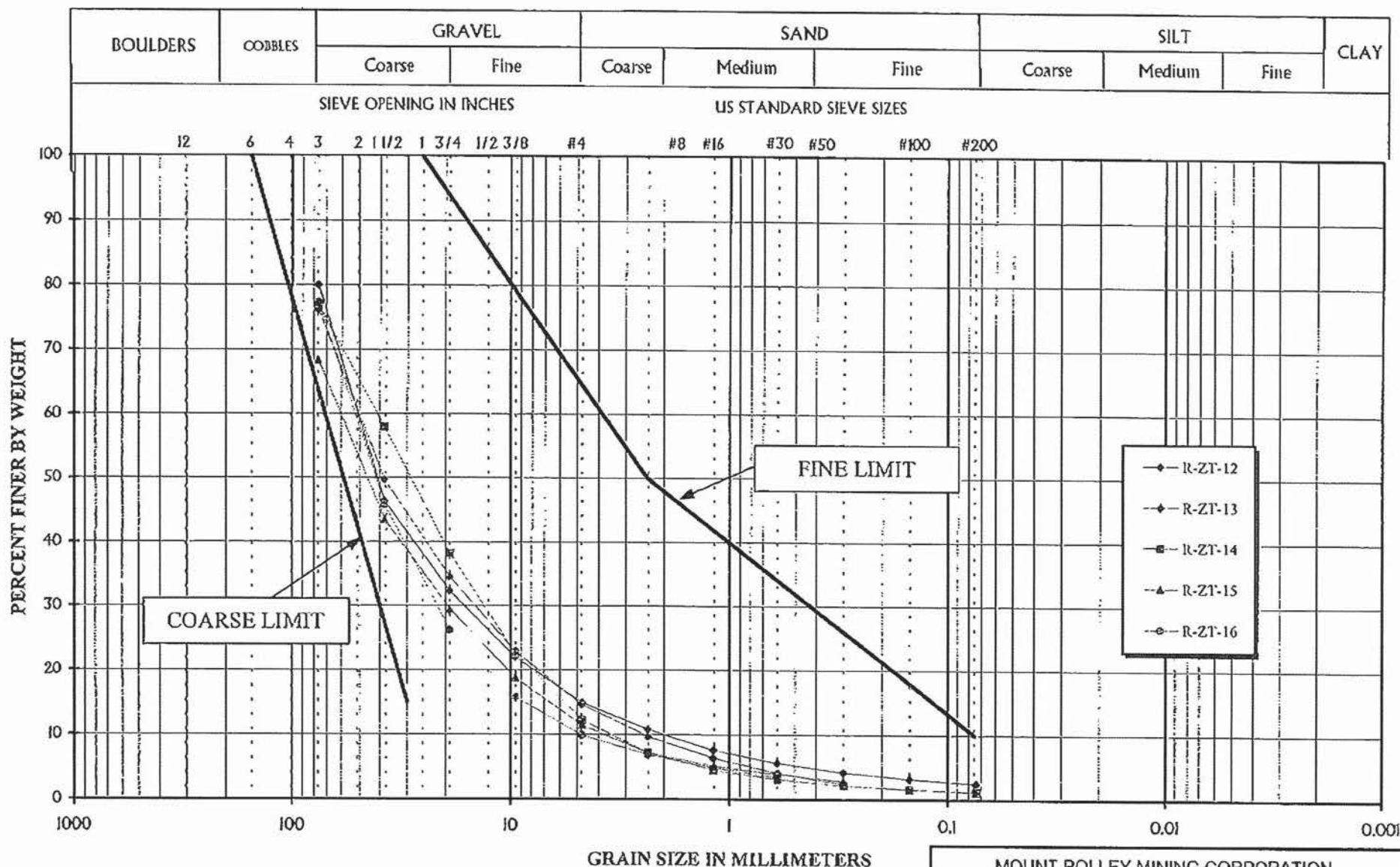
Knight Piesold CONSULTING										Sheet: 1 of 1																
PROJECT: MOUNT PELLERY - TAILINGS STORAGE FACILITY - STAGE 10 CONSTRUCTION										PERIOD: July 23 to July 29, 2001																
MATERIAL: Zone T - Transition Zone										PROJECT NO.: 1116214																
										ALPHA: TSF																
Sample No.	Date Sampled	Location	ID (α)	R1			R2	L3	R3 (Particle Size Distribution)															R4		R6
				Atterberg Limits					107.6	76.2	38.1	19.05	9.525	4.75	2.36	1.18	0.6	0.3	0.15	0.075	0.002	Standard Proctor				
				PL	LL	PI																Max Dry Density	Optimum Moisture			
				%	%	%																%	%			
R-ZT-12	00-Jan-01	4750, 1.8 m D/S of Zone S	533.1	-	-	-	4.4	-	-	80.0	46.1	32.3	22.0	14.9	10.8	7.6	5.6	4.2	3.2	2.5	-	-	-	-		
R-ZT-13	21-Jan-01	32140, 1.8 m D/S of Zone S	937.0	-	-	-	3.0	-	-	76.2	49.7	34.5	22.9	14.6	9.7	6.4	4.1	2.4	-	-	-	-	-	-		
R-ZT-14	09-Jul-01	35100, 3 m D/S of Zone S	933.0	-	-	-	1.4	-	-	76.9	51.9	38.2	22.6	12.2	7.2	4.5	3.1	2.2	1.6	1.2	-	-	-	-		
R-ZT-15	23-Jul-01	40421, 3 m D/S of Zone S	938.0	-	-	-	3.6	-	-	68.3	43.5	29.5	18.8	11.4	7.2	5.1	3.9	2.8	-	-	-	-	-	-		
R-ZT-16	29-Jul-01	43160, 3 m D/S of Zone S	540.1	-	-	-	4.0	-	-	72.3	45.8	26.2	15.8	9.9	6.9	4.9	3.4	-	-	-	-	-	-	-		

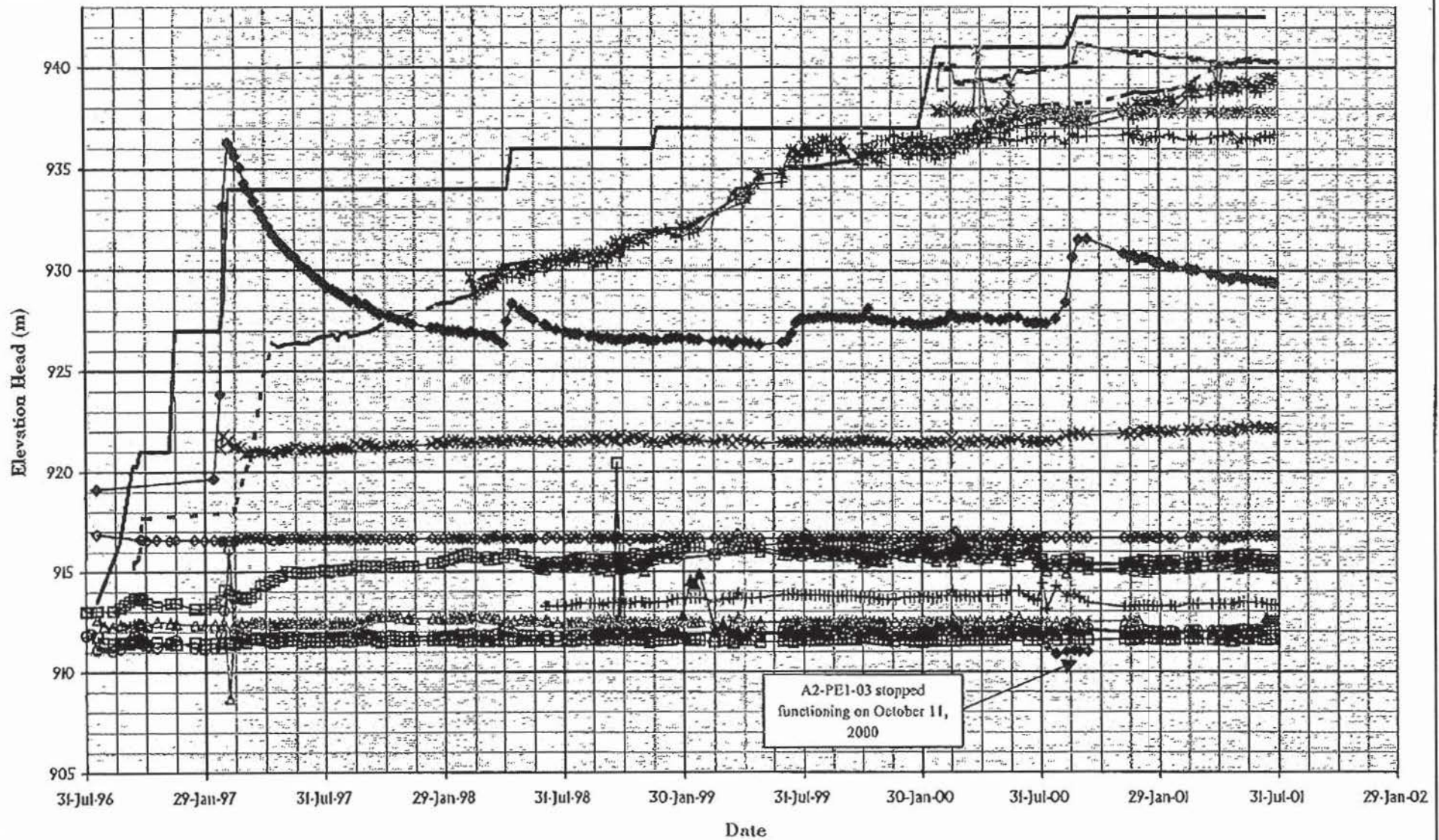




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30/07/2001 10:02 AM





■ ■ ■ Pond Level	— Fill Elevation	* A0-PE1-01	+ A0-PE1-02
—▲ A1-PE1-01	—□ A1-PE1-02	—◇ A1-PE1-03	—▲ A2-PE1-01
—□ A2-PE2-01	—○ A2-PE2-02	—◇ A2-PE2-03	—× A2-PE2-05
—▲ A2-PE2-06	—◇ A2-PE2-07	—+ A2-PE2-08	—+ A1-PE1-04
— A2-PE1-02	—× A0-PE1-01	—◇ A2-PE1-03	

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

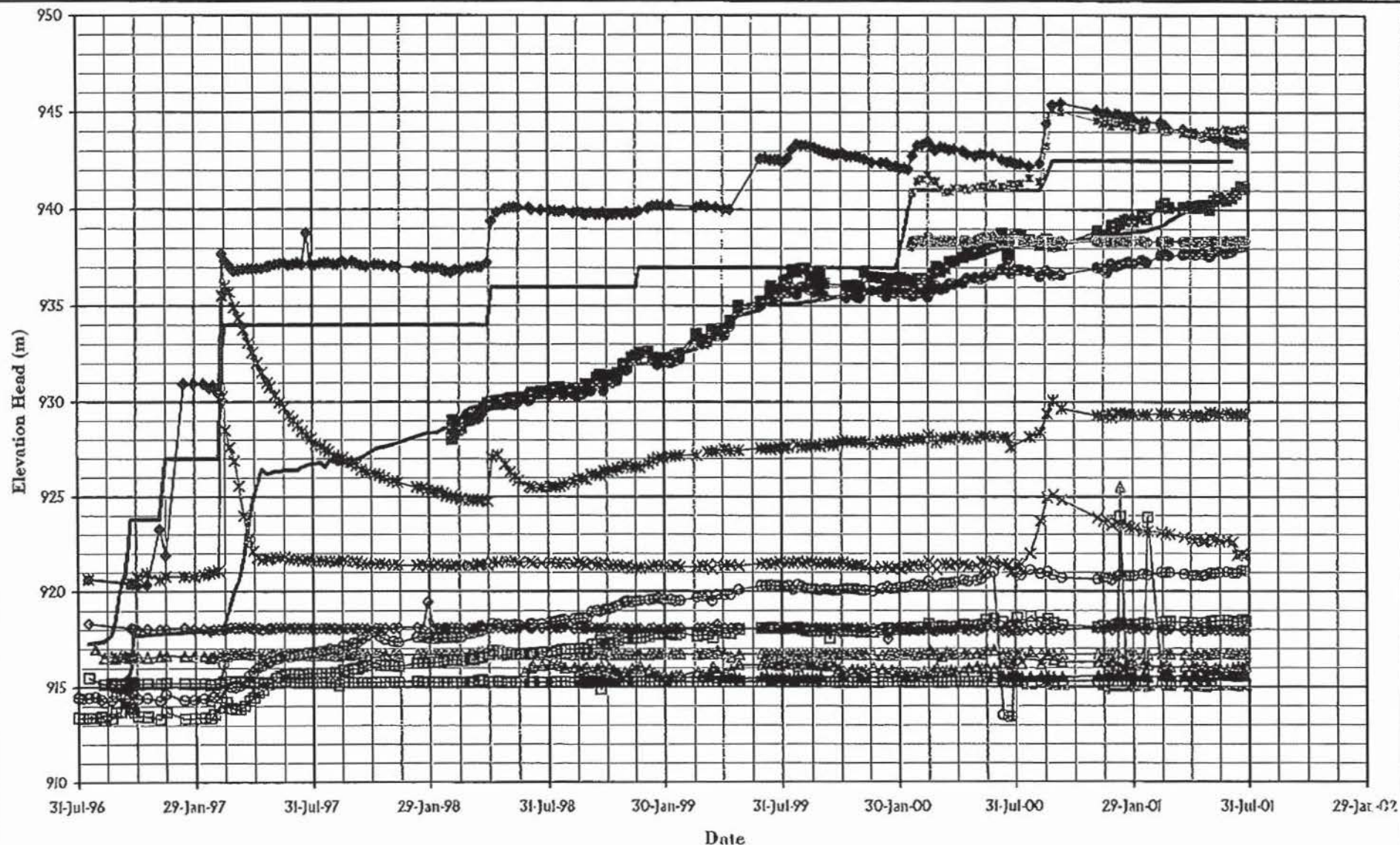
PLANE A PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold
CONSULTING

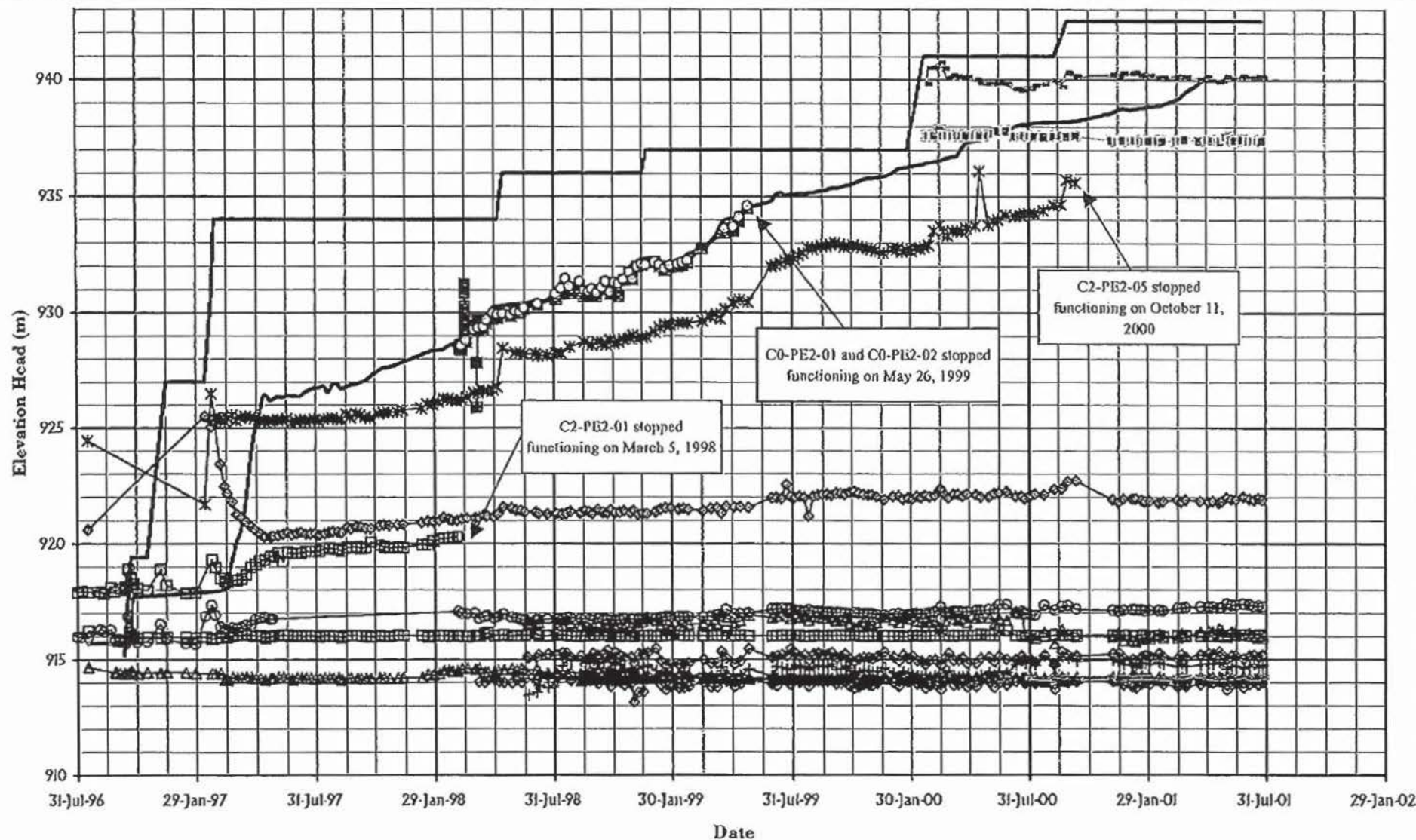
PROJECT NO. 11162/14 REF. NO. REV.

FIGURE 5.1



— Pond Level	— Fill Elevation	■ BO-PE2-01	● BO-PE2-02	▲ BI-PE2-01
□ BI-PE1-01	◇ BI-PE1-03	▲ B2-PE1-01	□ B2-PE2-01	○ B2-PE2-02
◆ B2-PE2-03	✱ B2-PE2-04	✱ B2-PE2-05	▲ B2-PE2-06	● BO-PE1-01
✱ B2-PE1-02	■ B2-PE1-03			

MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY		
PLANE B PIEZOMETERS		
GRAPH OF ELEVATION HEAD vs. TIME		
Knight Piésold		PROJECT NO. 11162/14
CONSULTING		REF. NO. REV.
FIGURE 5.2		



— Pond Level	— Fill Elevation	■ C0-PE2-01	○ C0-PE2-02	△ C1-PE1-01
□ C1-PE1-02	◇ C1-PE1-04	▲ C2-PE1-01	▣ C2-PE2-01	⊖ C2-PE2-02
◆ C2-PE2-03	* C2-PE2-05	△ C2-PE2-06	◇ C2-PE2-07	+ C2-PE2-08
▣ C0-PE1-01	— C2-PE1-02	— C2-PE1-03		

MOUNT POLLEY MINING CORPORATION

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TAILINGS STORAGE FACILITY

PLANE C PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

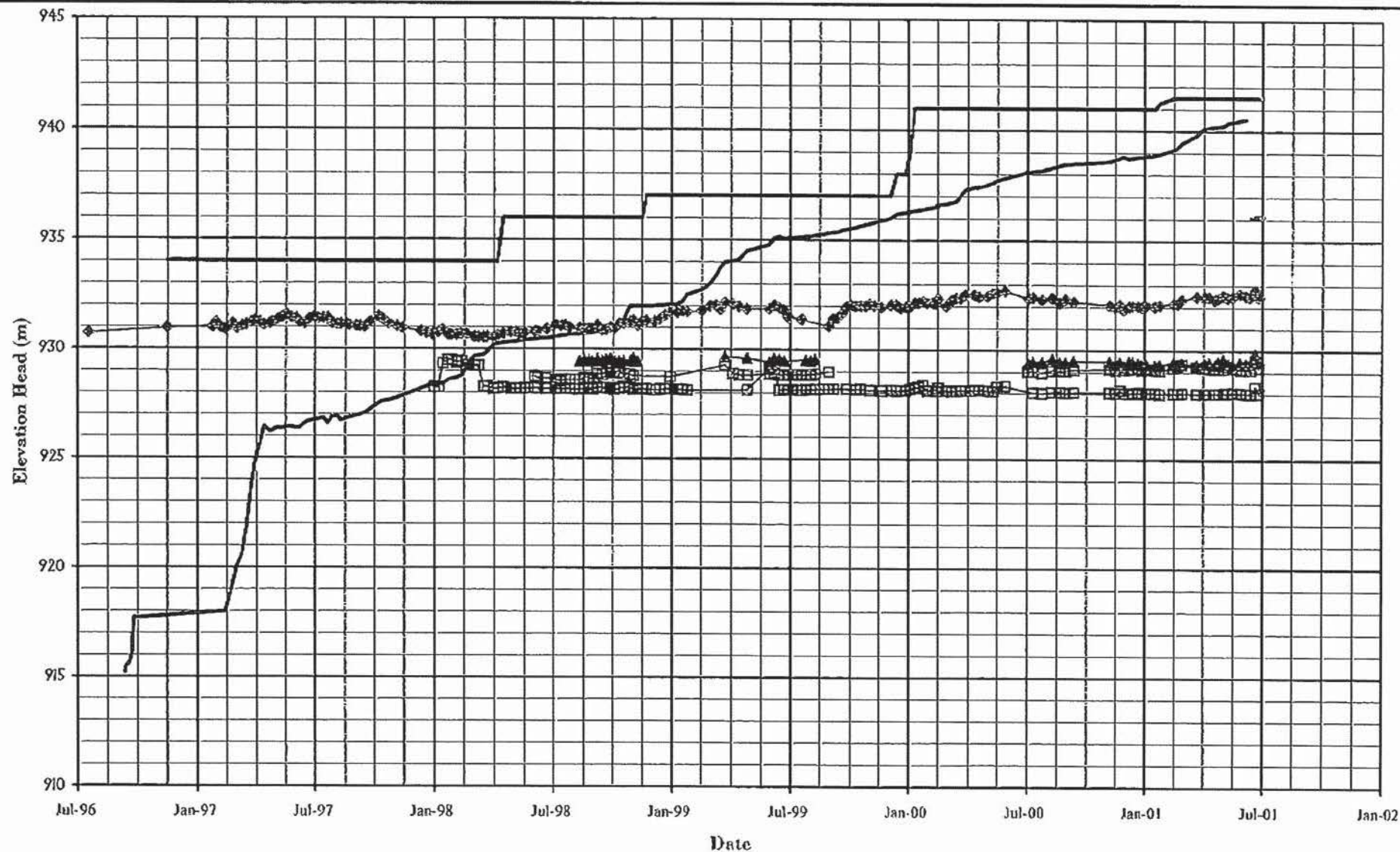
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PROJECT NO.
11162/14

REF. NO.

REV.

FIGURE 5.3



— Pond Level — Fill Elevation □ D1-PEI-02 ▲ D2-PEI-01
 ◆ D2-PE2-01 □ D2-PE2-02 - - D1-PEI-03

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

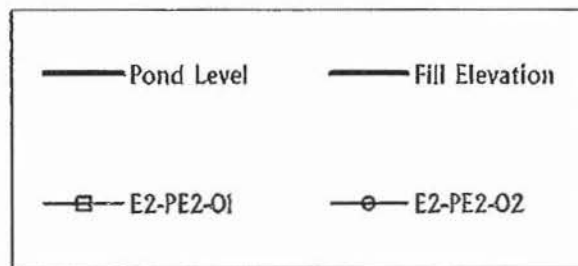
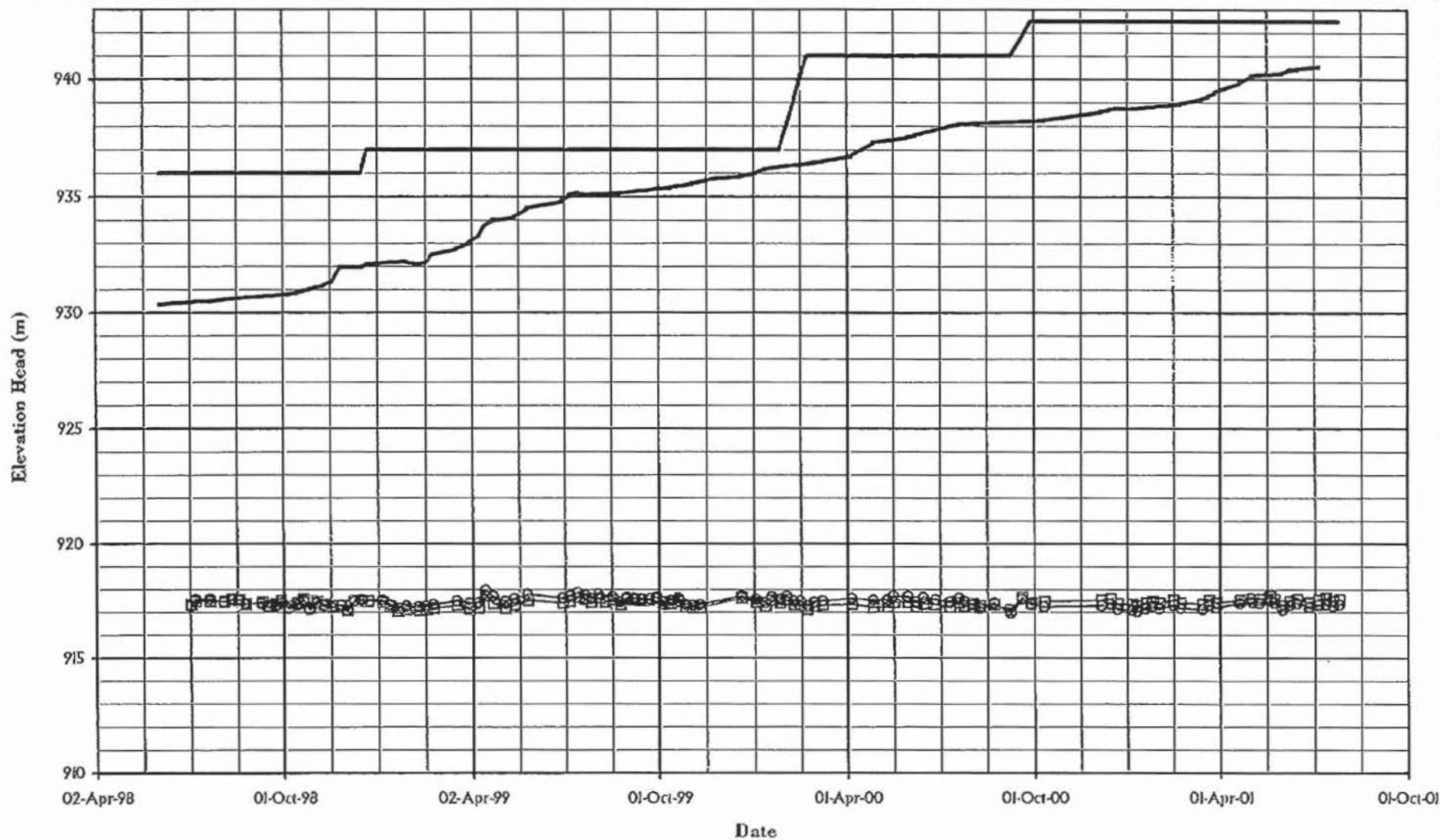
PLANE D PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

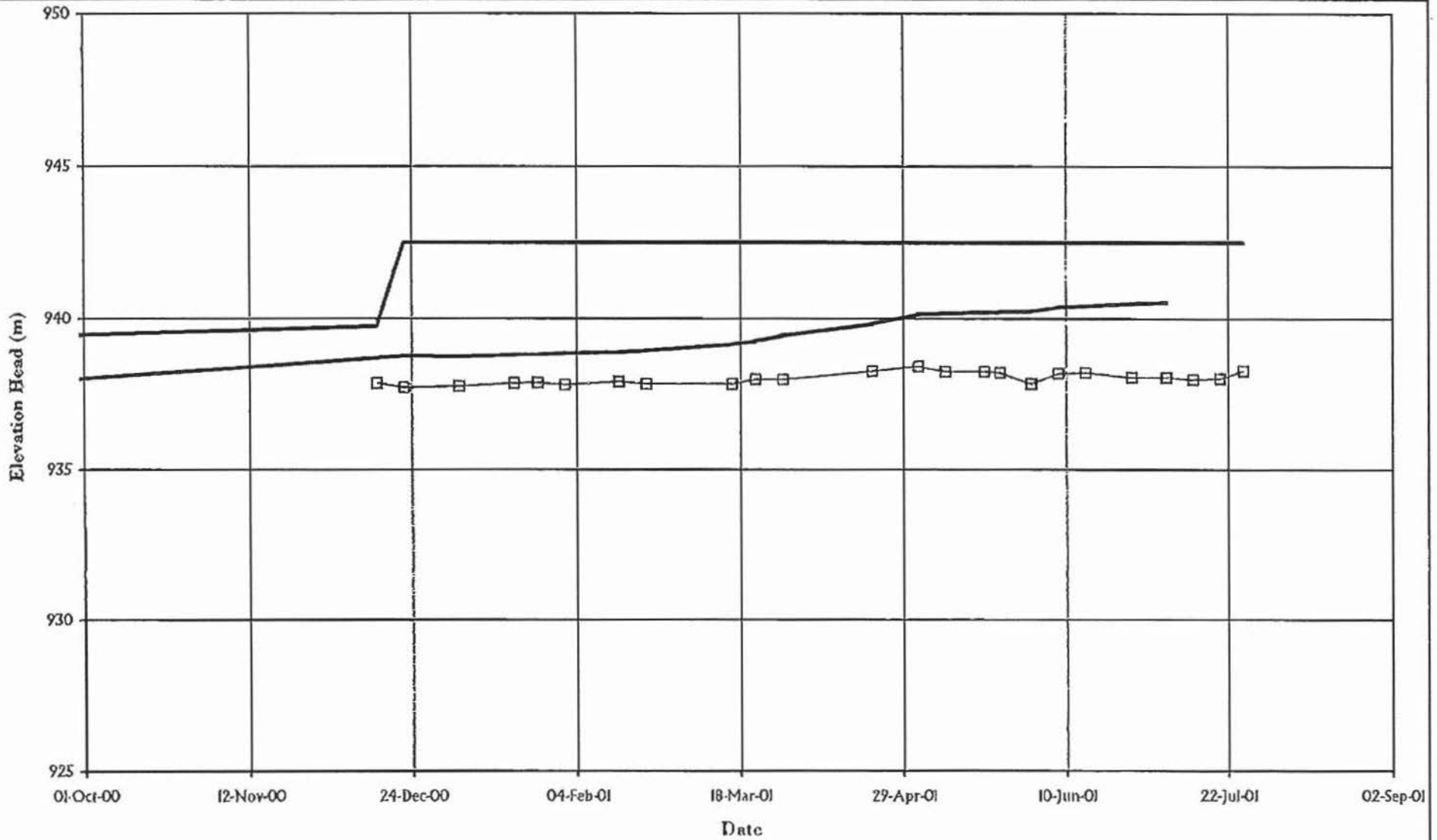
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PROJECT NO. 11162/14	REF. NO.	REV.
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FIGURE 5.4



MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY		
PLANE E PIEZOMETERS		
GRAPH OF ELEVATION HEAD vs. TIME		
Knight Piésold		PROJECT NO. 11182/14
CONSULTING		REF. NO.
		REV.
FIGURE 5.5		



— Pond Level — Fill Elevation —□— F2-PE2-01

MOUNT POLLEY MINING CORPORATION

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TAILINGS STORAGE FACILITY

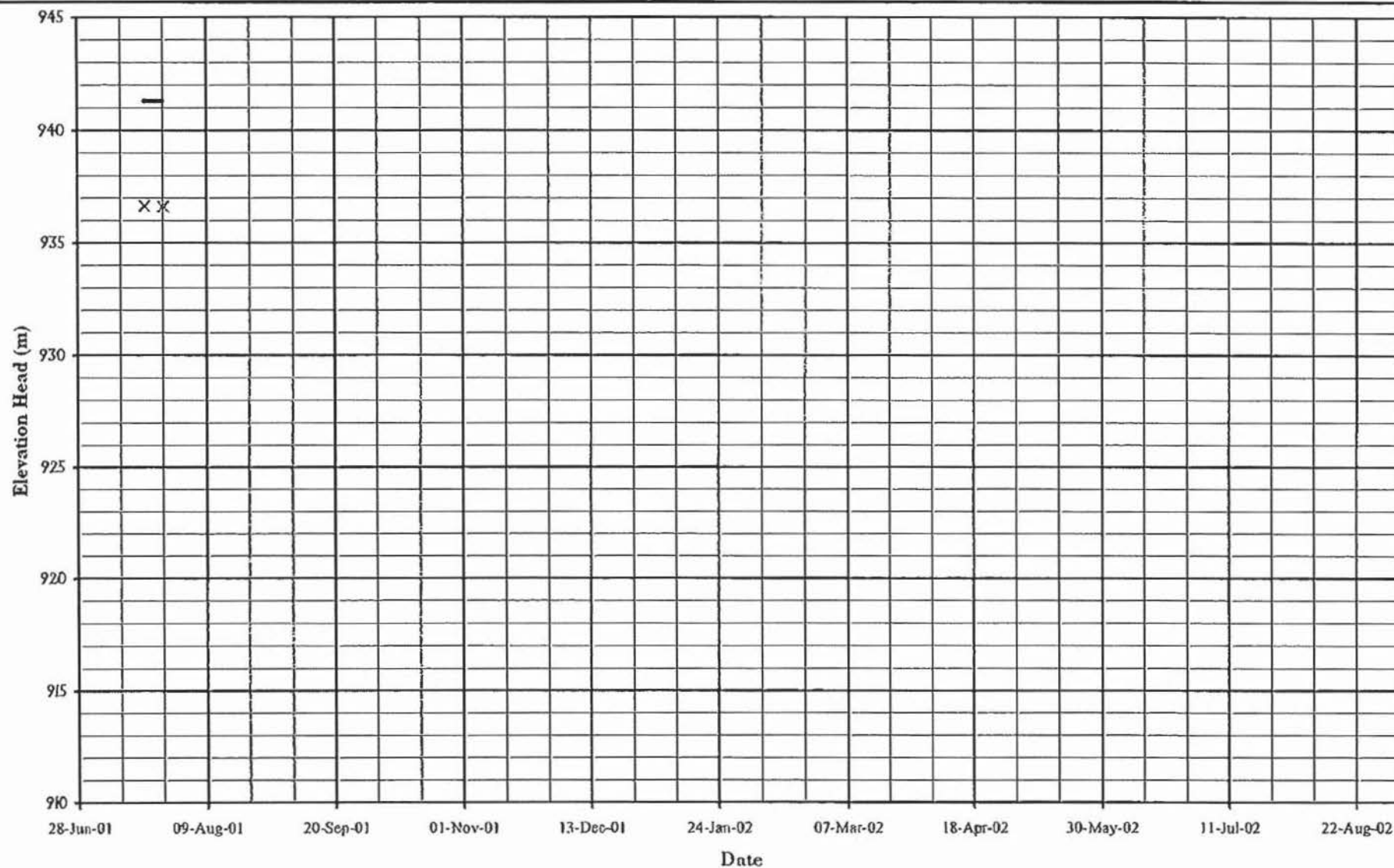
PLANE F PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold
CONSULTING

PROJECT NO. 11162/14 REF. NO. REV.

FIGURE 5.6



— Pond Level

— Fill Elevation

x GI-PEI-01

MOUNT POLLEY MINING CORPORATION

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TAILINGS STORAGE FACILITY

PLANE G PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

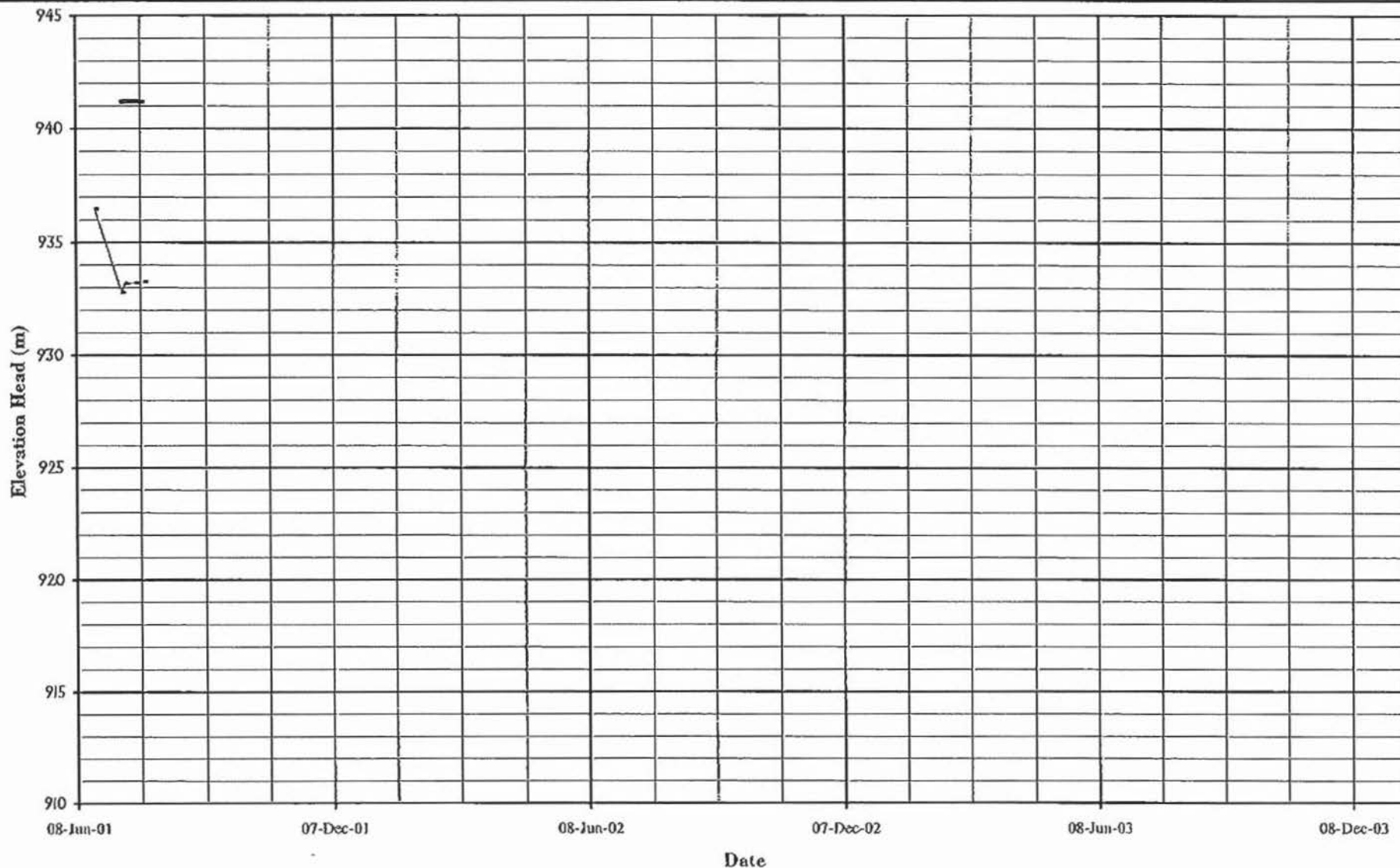
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PROJECT NO.
11162/14

REF. NO.

REV.

FIGURE 5.7



— Pond Level

- - - Fill Elevation

— HI-PEI-01

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

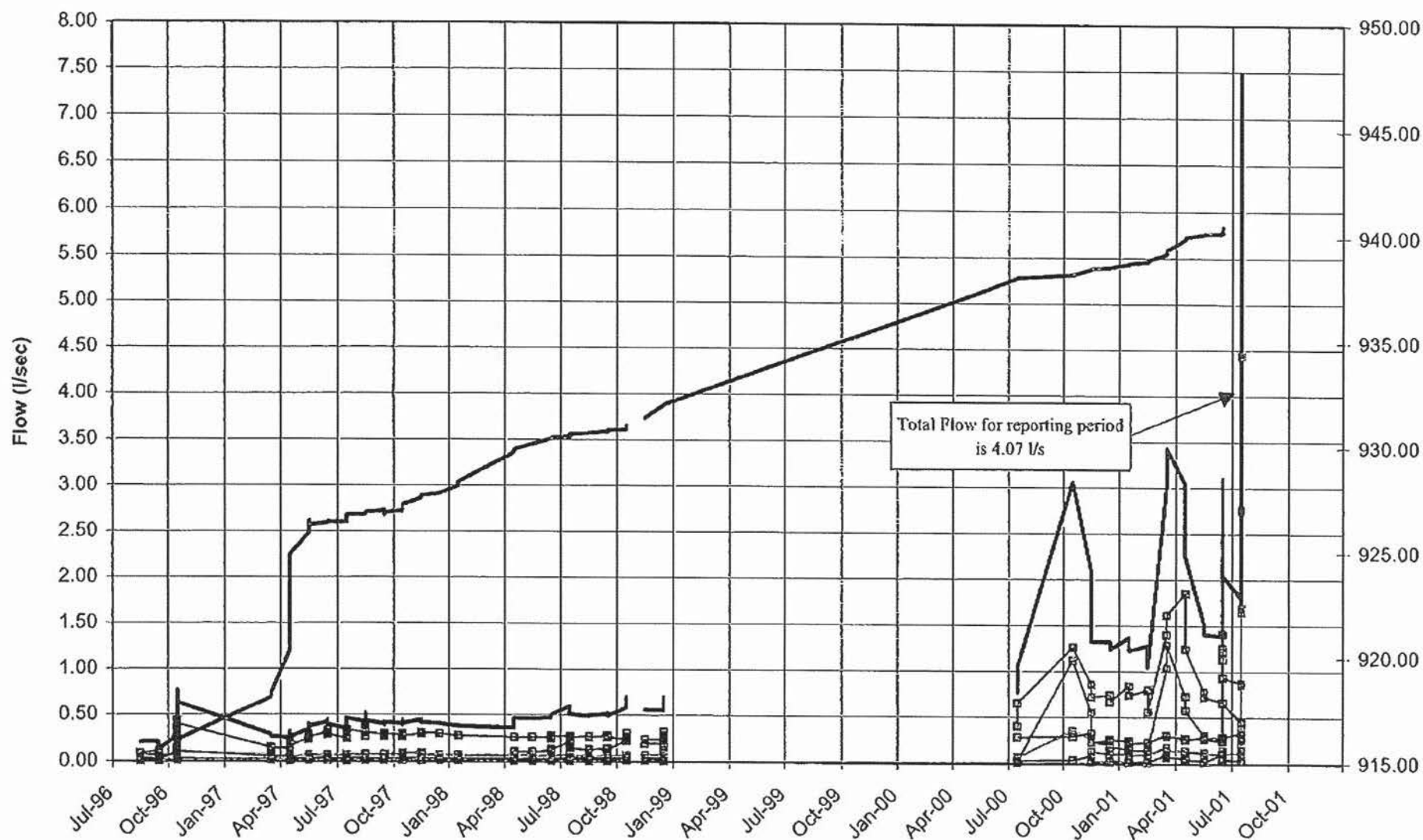
PLANE H PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold
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PROJECT NO. 11182/14 REF. NO. REV.

FIGURE 5.8



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

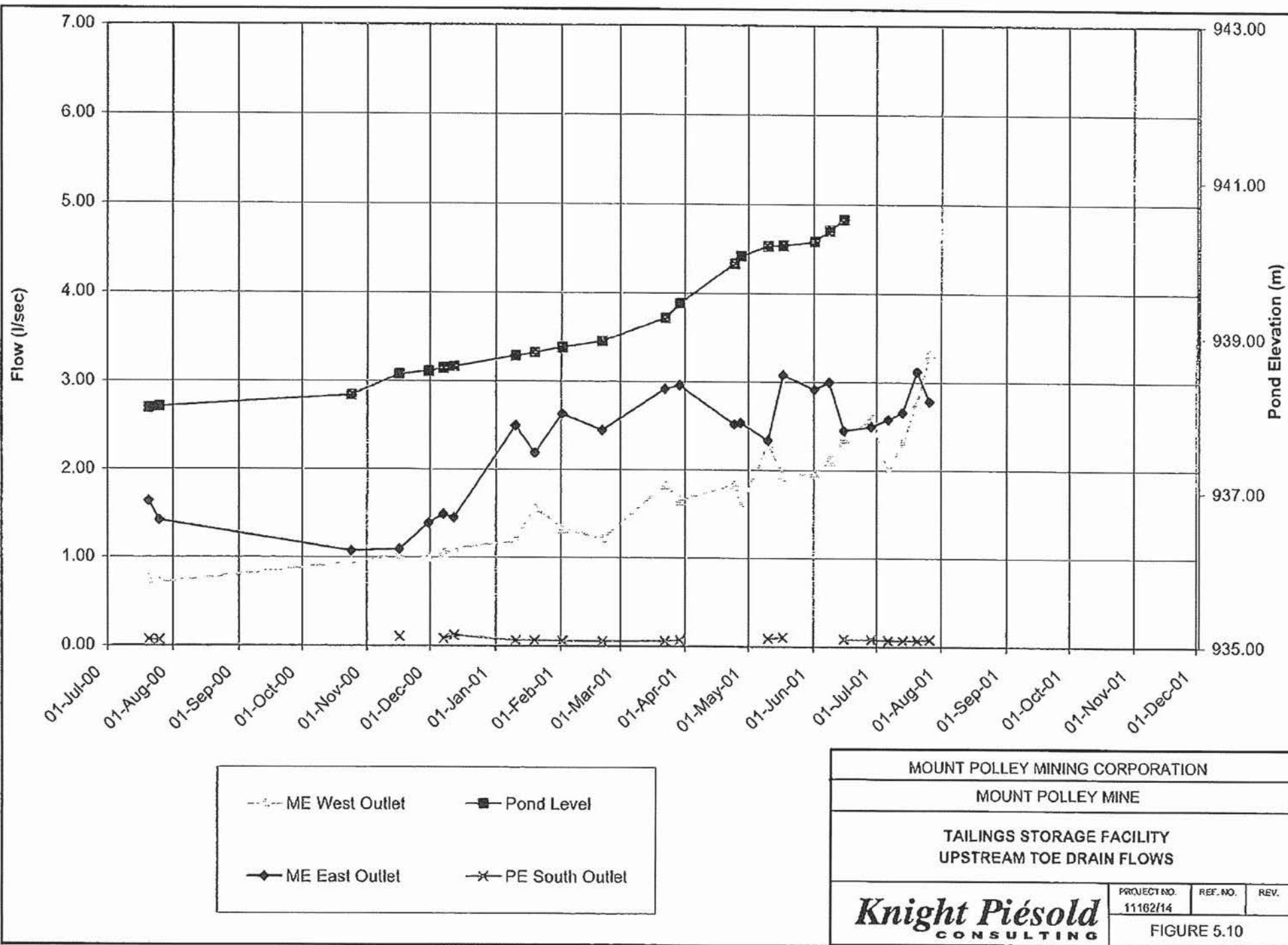
MAIN EMBANKMENT

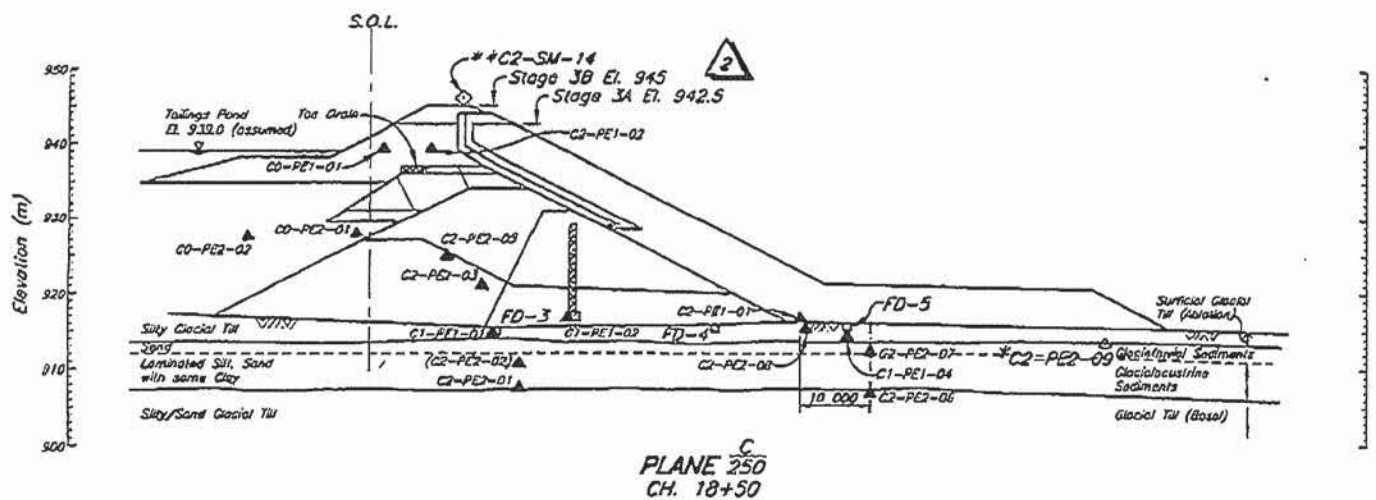
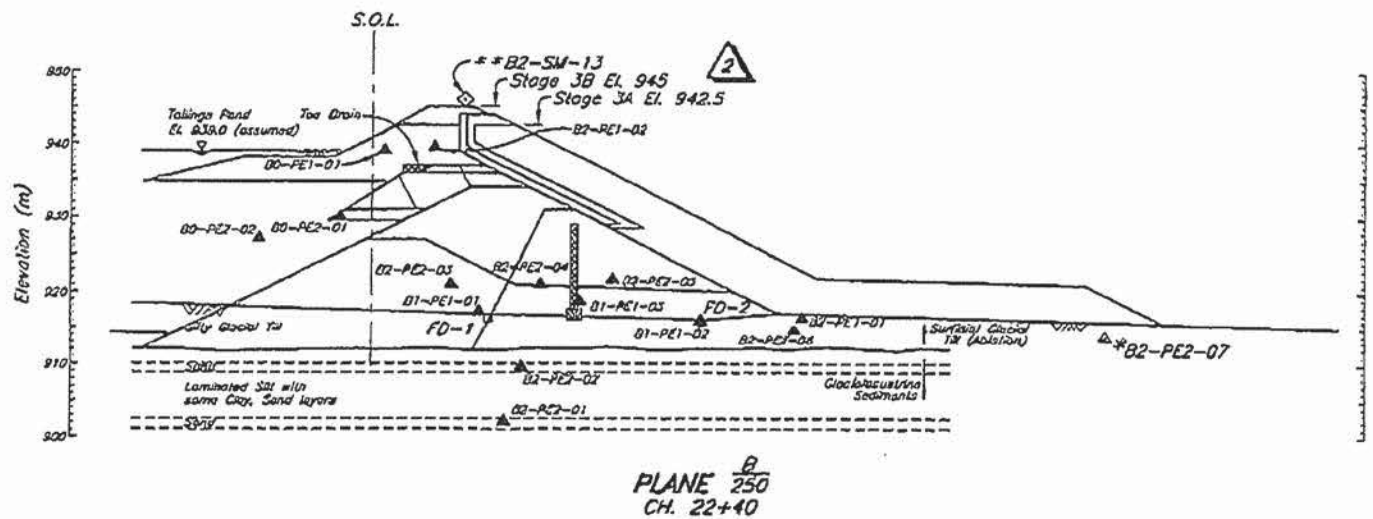
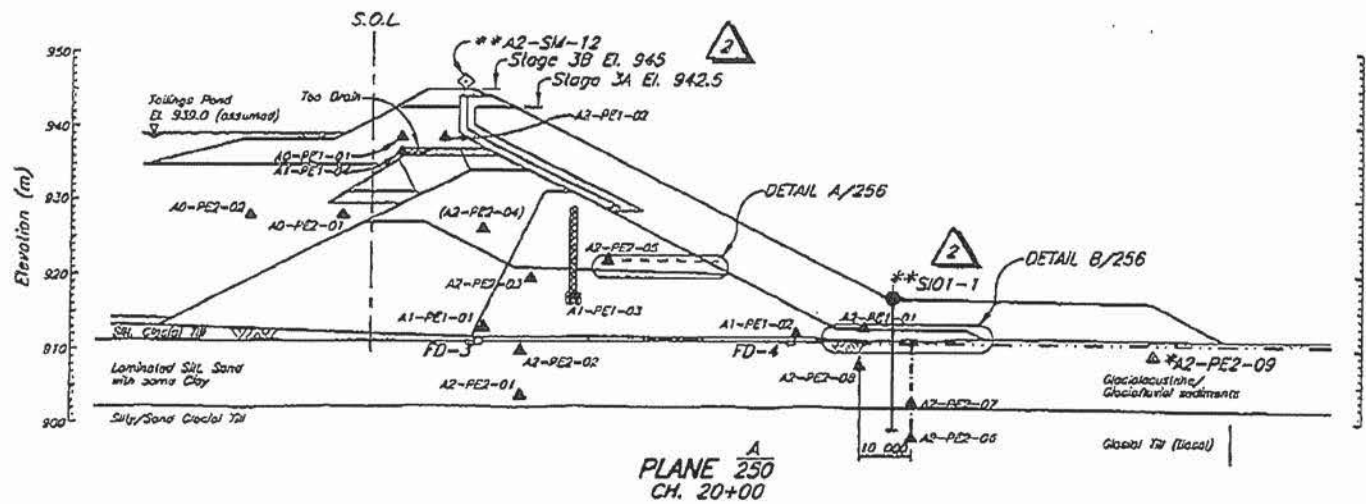
FOUNDATION DRAIN FLOWS

Knight Piésold
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PROJECT NO. 11162/14	REF. NO.	REV.
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FIGURE 5.9

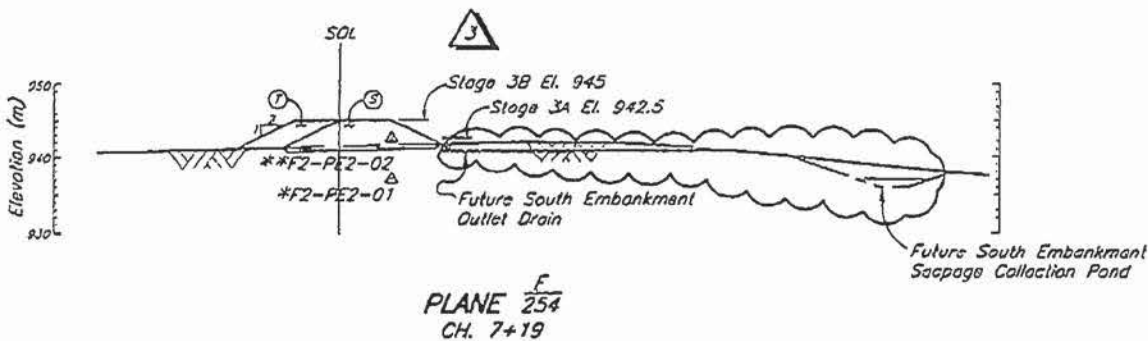
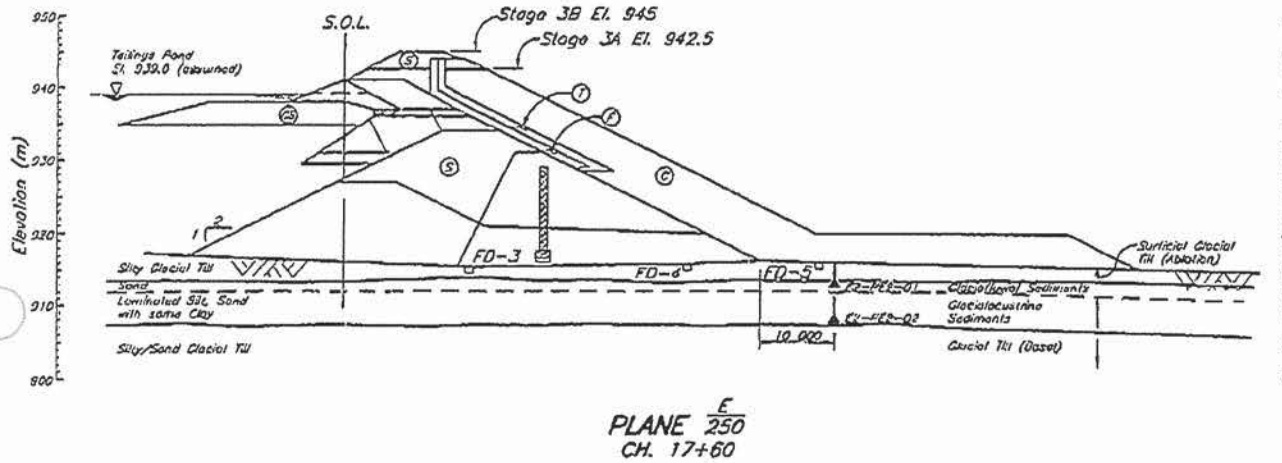
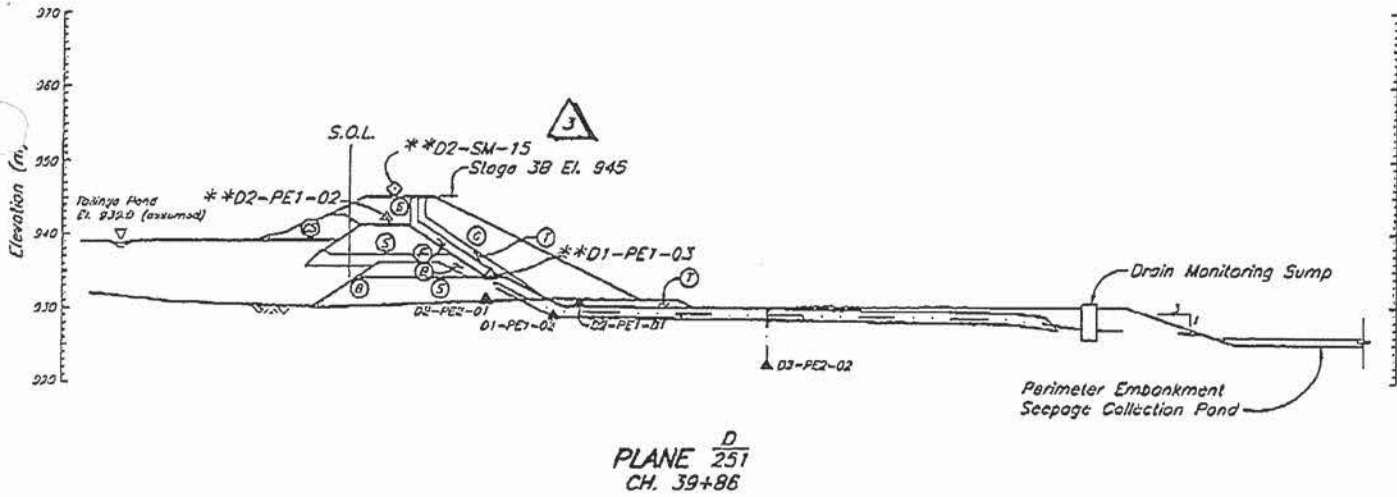




STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SECTIONS 2 OF 2
STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SUMMARY OF INSTALLATION & TYP. DETAILS
STAGE 3 MAIN EMBANKMENT - INSTRUMENTATION - PLAN

2	08MAY'01	ISSUED FC
1	26JAN'01	STAGE 3B
0	2JUN'00	ISSUED FC

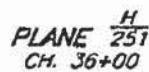
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REFERENCE DRAWINGS	REVISIONS								



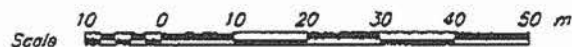
REFERENCE DRAWINGS	
STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION SUMMARY OF INSTALLATION & TYPICAL DETAILS	
STAGE 3 TAILINGS EMBANKMENT - SOUTH EMBANKMENT - INSTRUMENTATION PLAN	
STAGE 3 PERIMETER EMBANKMENT - INSTRUMENTATION PLAN	
STAGE 3 TAILINGS EMBANKMENT - MAIN EMBANKMENT - INSTRUMENTATION PLAN	
DESCRIPTION	REV.
	DATE

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

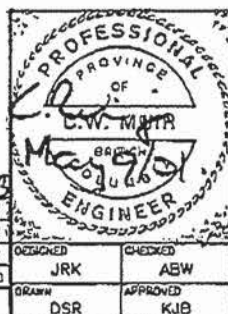
3	08MAY'01	ISSUED FOR
2	26JAN'01	STAGE 3B
1	20OCT'00	PERIMETER
0	2JUN'00	ISSUED FOR



2. Instrumentation with one asterisk indicates placement during Stage 3A construction. Instrumentation with 2 asterisks indicate placement during Stage 3B construction.



FOR STAGE 3B TENDER	CHM	DSR	JRK	AW
2 - CREST ELEVATION 945	JRK	AW	JMTW	KJB
PER EMBANKMENT SECTIONS ADDED	JRK	NSD	JMTW	KJB
FOR CONSTRUCTION	JRK	TAM	ASW	KJB
DESCRIPTION	DESIGN	DRAWN	CHECK	APP'D
REVISIONS				



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SCALE	AS SHOWN	REVISION
		3
DRAWING NO.		
11162-13-259		

14745

aug 24 11:17
61:80 10. 60 908

/MTP0101

Knight Piésold
CONSULTINGMount Polley Site Office Fax: (250) 790-2268
www.knightpiesold.com

DATE: August 7, 2001

TIME:

OPERATOR:

SENDER: Wilson Muir

FILE NO.: 11162/14.F01/.F02/
.F04/.F05/.F08

REF NO.: 01-26

PAGES: 1 of 25

TO: Ministry of Energy and Mines, Victoria B.C. FAX: 250-952-0481

ATTN: Chris Carr

CC: Ken Brouwer, KP Vancouver
Don Parsons / Eric LeNeve, MPMC Site

SUBJECT: Progress Report No. 17

Dear Mr. Carr,

Please find enclosed a copy of Progress Report No. 17 from July 30 to August 5, 2001. If you have any questions, please do not hesitate to contact me on site or Ken Brouwer in our Vancouver office.

Regards,

C. Wilson Muir
C. Wilson Muir, P.Eng.
Resident Engineer
Knight Piésold Consulting

MINISTRY OF
ENERGY AND MINES

REC'D AUG - 9 2001

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
PROGRESS REPORT NO. 17 - JULY 30 TO AUGUST 5, 2001

SECTION 1.0 - GENERAL

Mount Polley Mining Corporation (MPMC) continued Stage 3B construction activities. Knight Piésold Ltd. (KP) carried out QA/QC activities during the reporting period.

The scope of work includes placement of Zones S, F, T and C to El. 942.5 m on the Perimeter Embankment (Ch. 28+00 to 44+50). MPMC is carrying out the majority of this work. Hauling of Zone F from the millsite to the TSF and hauling of Zone S from the borrow area to the TSF is being completed by sub-contractors.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- Wilson Muir, Resident Engineer.

The following MPMC personnel were on site during the reporting period:

- Don Parsons Mine Superintendent
- Eric LeNeve Tailings Coordinator
- Charlie O'Hara General Foreman
- Don Jameson Site Foreman
- Ron Gale Site Foreman

1.2 CONTRACT DEVELOPMENTS

MPMC has decided to contract out the majority of the Zone S haul between the borrow area and the TSF using highway dump trucks. MPMC will still be responsible for loading, spreading, grading and compaction of the Zone S material.

1.3 DESIGN DEVELOPMENTS

No new design developments occurred during the reporting period.

1.3 WEATHER

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Conditions were unsettled during the reporting period with periods of rainy, cloudy and sunny conditions. Maximum daytime highs reached about +20 °C and nightly lows sank to as low as +7 °C.

1.4 SAFETY

No new safety incidents occurred over the reporting period.

SECTION 2.0 - TAILINGS FACILITY OPERATION AND MAINTENANCE

Tailings were spigotted along the Main Embankment crest during the reporting period at approximate Chainage 23+00 to obtain a well developed, even beach at the Main Embankment. The tailings line will then be moved to the ridge between the Main and South Embankments. It is anticipated that tailings will form a substantial beach in this area by discharging at this location.

The Tailings Pond remains a significant distance from the Perimeter Embankment.

SECTION 3.0 - CONSTRUCTION ACTIVITIES

3.1 EQUIPMENT

MPMC used the following equipment over the reporting period:

- Excavators: 1 Hitachi EX 270, 1 Hitachi EX 400
- Haul Trucks: 2 Caterpillar 777 85T
- Loaders: 1 Caterpillar 992B
- Dozers: 1 Caterpillar D6, 1 Caterpillar D8K, 1 Caterpillar D7G
- Compactors: 1 Caterpillar CS 563 10T vibratory smooth drum
- Graders: 1 Caterpillar 14G
- Service, water and fuel trucks
- Lake Excavating: 3 dump trucks and 1 Caterpillar 966 loader

MPMC carried out the following activities during the reporting period:

- Placement of Zone F fill, Perimeter Embankment: Ch. 36+75 to 37+00 and 40+00 to 40+50, El. 933.0 to 941.0 m.
- Placement of Zone S fill, Perimeter Embankment: Ch. 44+50 to 44+75, El. 941.0 to 942.0 m
- Placement of Zone T rip rap, Perimeter Embankment, upstream of the Zone CS: Ch. 43+50 to 44+50
- Placement of Zone T fill, Perimeter Embankment: Ch. 40+00 to 42+50, El. 934 to 941.0 m.
- Development of the Rock Borrow for Zone T material.

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Zone T was supplied from the Rock Borrow, Zone F was delivered from the stockpile at the millsite and Zone S originated from Borrow Area 2. Zone F was placed in a 1 m thick lift on the downstream embankment slope over stiff Zone S, while Zone T was placed upon Zone F in a 1 metre thick lift. Zone S was placed in 300 mm horizontal lifts.

The Zone S placement was a remedial measure taken to stop water from seeping through the upstream Zone T fill, over the Zone S and into the filter zones on the downstream sides of the embankment. The source of this seepage was tailings water from the impoundment. The tailings beach in this area is elevated due to continued tailings discharge from dump valve M1A. As a result, tailings flow came very close to the upstream fill zones, water became trapped against the upstream face of the embankment and began to seep through the permeable Zone T. In areas where Zone CS was placed as the upstream fill zone, there was a concern of the tailings flow eroding the Zone CS. The Zone T rip rap was placed to minimize the concern of erosion.

The seepage exited the downstream toe of the tailings embankment at Ch. 43+00, entered the ditch at the toe of the embankment and reported to the Perimeter Embankment seepage collection pond. All tailings water was collected and returned to the tailings impoundment.

SECTION 4.0 - KNIGHT PIÉSOLD ACTIVITIES

4.1 GENERAL

KP activities over the reporting period included the following:

- Monitoring and inspection of fill placement of Zones F, T and S.
- Submission of daily summaries of QA/QC and construction activities to MPMC.
- Control and Record sampling and testing of embankment fill materials.
- Ongoing discussions and correspondence with MPMC and KP Vancouver with regard to current and future design.
- Preparation of progress reports.
- Preparation of the Annual Report and the Stage 3 Construction Report

4.2 Laboratory Testing

The following samples were processed during the reporting period:

- R-ZF-41
- R-ZT-17

Both record tests completed during the reporting period proved suitable for their respective zones. All tests carried out during the reporting period are presented in the attached tables and figures.

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CONSULTING**SECTION 5.0 - MONITORING****5.1 GENERAL**

Instrumentation was monitored during the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

5.2 VIBRATING WIRE PIEZOMETERS

No new piezometers were installed during the reporting period.

Piezometer readings are taken on a weekly basis. The results from the monitoring are shown on Figures 5.1 to 5.8. Locations of the piezometers are presented on the attached Drawings.

Foundation Piezometers

No substantial changes were noted in the remaining foundation piezometers with the exception of B2-PE2-02, which increased slightly.

Fill Piezometers

The majority of the Main Embankment glacial till piezometers responded to construction of the overlying Stage 3A fills with increasing pore pressures. Generally, these piezometers are now fully dissipated, as a constant, horizontal trend has been showing for some time now.

Two piezometers located within the Stage 1A glacial till fill have historically registered anomalous values, and warrant discussion.

Piezometer B2-PE2-03 reacted strongly to fill placement during initial construction. Pore pressures did not dissipate in the periods following fill placement, but remained constant. This is in direct contrast to other instruments located nearby. This trend changed in 1999, when B2-PE2-03 began to show dissipation at the completion of fill placement. This new trend has been repeated three times, with approximately the same dissipation rate after each stage of construction, with an increase in pore pressure between 50 and 100% of the increase in total stress. It appears that drainage paths were limited in the fill around this piezometer and pore pressures are still equilibrating.

Piezometer C2-PE2-05 is also located in the Stage 1A glacial till fill. This instrument historically showed little or no reaction to construction, but indicated a slow, steady increase in pore pressure over time. This suggests that pore pressures in the fill around C2-PE2-05 are reaching a steady state condition as the phreatic surface moves through the fill. It should be noted that the pressure head registered by this piezometer is approximately 10 m. This is similar to other piezometers located in comparable locations in the glacial till fill.

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Drain Piezometers

All drain piezometers have remained static and at very low head indicating free draining conditions within the embankment drainage systems.

Tailings Piezometers

Readings at the tailings piezometers continue to mimic the pond level, except at the Main Embankment, where the upstream toe drain has resulted in a depressed phreatic surface.

5.3 DRAIN FLOWS

Drains flows were recorded on August 2, 2001. The results from the foundation drains and upstream toe drain are shown on Figures 5.9 and 5.10, respectively.

5.4 SLOPE INCLINOMETERS

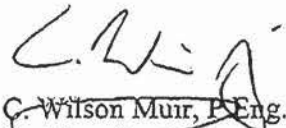
The equipment to monitor, record and evaluate the data from the slope inclinometers is expected to be on site during the first week of August. Exact depths of the inclinometers will be determined and calibration measurements will be carried out at that time.

SECTION 6.0 - ONGOING ITEMS

The following items will be addressed during upcoming reporting periods:

- MPMC will continue to construct the Stage 3B Perimeter Embankment to El. 942.5 m.
- The slope inclinometers will be measured and calibrated.
- KP will continue to provide QA/QC and site supervision activities in accordance with the technical specifications.

Submitted by,



C. Wilson Muir, P.Eng.
Resident Engineer
Knight Piesold Consulting.

Distribution: Eric LeNeve, Tailings Coordinator, MPMC Site
Don Parsons, Mine Superintendent, MPMC Site
Chris Carr, Ministry of Energy and Mines, Victoria, B.C.
Ken Brouwer, KP Vancouver

ZONE F RECORD TEST SUMMARY SHEET

1116371-00211
Revision 0
(1/90)

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

ZONE F RECORD TEST SUMMARY SHEET[illegible]

Note: These are 100% limits.

Values for Standard Error, maximum dry density and optimum moisture content in the oven-dried condition.

IP - In progress

Collecting of Stage 3A data in progress, variables R-2F-S, 28, 29 and 30 are unrecoded

- | | |
|----|--|
| R1 | Attaberg Limits (ASTM D4318) |
| R2 | Moisture Content (ASTM D2216) |
| R3 | Particle Size Distribution (ASTM D422) |
| R4 | Laboratory Compaction (ASTM D1557) |
| R6 | Specific Gravity (ASTM D854) |

TABLE 4.4

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION

ZONE T RECORD TEST SUMMARY SHEET

H:\ENG\DATA\EngDocs\Geotechnical\Upside\Stage 3B Construction\Tab\Record\J\R-ZT-Summary.xls\|Data Sheet

ENR3

Knight Piésold CONSULTING										SHEET: 1 of 1														
PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION										PERIOD: July 30 to August 5, 2001														
MATERIAL: Zone T - Transition Zone										PROJECT NO.: 11162/14														
										AREA: TSF														
Sample No.	Date Sampled	Location	El (m)	R1			R2	L1	R3 (Particle Size Distribution)											R4		R6		
				Atterberg Limits					F ₆₃ %												Standard Proctor		Specific Gravity	
				PL %	LL %	PI %				157.4	76.2	38.1	19.05	9.525	4.75	2.36	1.18	0.6	0.3	0.149				0.0746
										6	3	1.3	0.75	0.375	0.187	0.0937	0.0469	0.0234	0.0117	0.0059	0.0029	Maximum Density kg/m ³	Optimum %	
										6	3	1 1/2	3/4	3/8	1/4	1/16	1/32	1/64	1/128	1/256	1/512	Clay		
R-ZT-1	3-Jun-00	-	-	-	-	-	-	-	90.0	80.0	59.9	40.2	26.7	18.5	13.2	9.9	7.7	5.7	3.9	2.6	-	-	-	-
R-ZT-2	16-Jul-00	-	-	-	-	-	-	-	100.0	80.0	62.0	42.8	29.0	21.3	15.9	11.8	9.3	7.3	6.1	5.3	-	-	-	-
R-ZT-3	23-Jul-00	-	-	-	-	-	-	-	100.0	86.1	57.7	44.2	30.0	20.0	14.1	10.0	7.2	4.6	2.7	1.6	-	-	-	-
R-ZT-4	27-Jul-00	-	-	-	-	-	-	-	100.0	76.0	47.7	33.9	21.5	13.0	-	5.8	3.7	2.5	1.0	0.5	-	-	-	-
R-ZT-5	21-Aug-00	19450	939.0	-	-	-	-	-	100.0	62.8	51.4	35.6	26.7	20.9	16.1	12.0	7.8	-	4.6	1.8	-	-	-	-
R-ZT-6	23-Aug-00	23400	-	-	-	-	-	-	100.0	65.5	56.3	-	-	25.5	19.4	13.5	9.7	6.0	3.5	1.5	-	-	-	-
R-ZT-7	29-Aug-00	20400	932.0	-	-	-	-	-	100.0	83.0	91.3	-	-	37.8	25.3	16.0	9.8	5.7	3.3	1.8	-	-	-	-
R-ZT-8	9-Sep-00	18400	916.0	-	-	-	-	-	100.0	80.0	70.1	44.7	29.3	12.5	8.7	6.3	4.5	-	3.7	2.0	-	-	-	-
R-ZT-9	9-Sep-00	26400	910.0	-	-	-	-	-	100.0	98.0	70.8	46.9	27.3	17.7	10.7	7.0	4.6	-	3.3	1.8	-	-	-	-
R-ZT-10	21-Sep-01	20400	911.0	-	-	-	-	-	100.0	80.0	67.5	-	-	27.4	20.8	16.2	12.3	5.5	1.6	0.8	-	-	-	-
R-ZT-12	3-Jan-01	47450, 1.8 m D/S of Zone S	933.5	-	-	-	4.4	-	100.0	80.0	46.4	32.3	22.0	14.9	10.8	7.6	5.6	4.2	3.2	2.5	-	-	-	-
R-ZT-13	23-Jan-01	37450, 1.8 m D/S of Zone S	937.0	-	-	-	3.0	-	100.0	76.2	49.7	31.5	22.9	14.6	9.7	6.4	4.1	2.4	-	-	-	-	-	-
R-ZT-14	9-Jul-01	35400, 3 m D/S of Zone S	938.0	-	-	-	1.4	-	100.0	76.9	57.9	38.2	22.6	12.2	7.2	4.5	3.1	2.2	1.6	1.2	-	-	-	-
R-ZT-15	23-Jan-01	40421, 3 m D/S of Zone S	938.0	-	-	-	3.6	-	100.0	68.3	43.5	29.5	18.8	11.4	7.2	5.1	3.9	2.8	-	-	-	-	-	-
R-ZT-16	29-Jul-01	40400, 3 m D/S of Zone S	940.5	-	-	-	4.0	-	100.0	77.3	45.8	26.2	15.8	9.9	6.9	4.9	3.4	-	-	-	-	-	-	-
R-ZT-17	5-Aug-01	40400, 3 m D/S of Zone S	940.0	-	-	-	3.2	-	100.0	82.3	47.4	33.2	23.4	16.6	-	7.8	5.0	3.3	-	1.4	-	-	-	-

TABLE 4.4

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION

ZONE T RECORD TEST SUMMARY SHEET

H:\ENG\DATA\Engdocs\Geotechnical\Upstate\Stage 3B Construction\Subrecord\1\R-ZT-931111.xls\Date Sheet

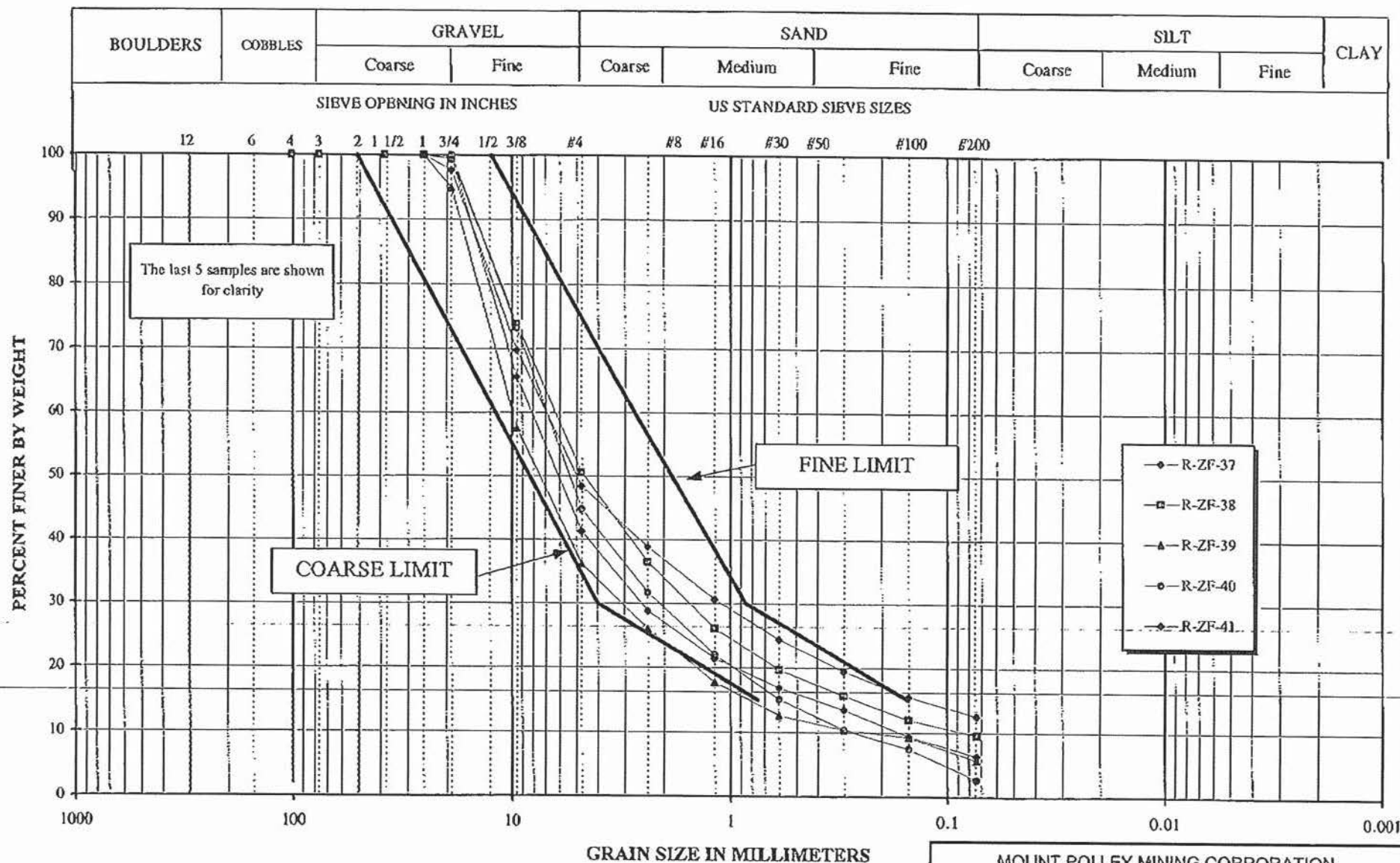
5553

Knight Piésold CONSULTING		SHEET: 1 of 1															PERIOD: July 30 to August 5, 2001																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION		PROJECT NO.: 11162/14															AREA: TSF																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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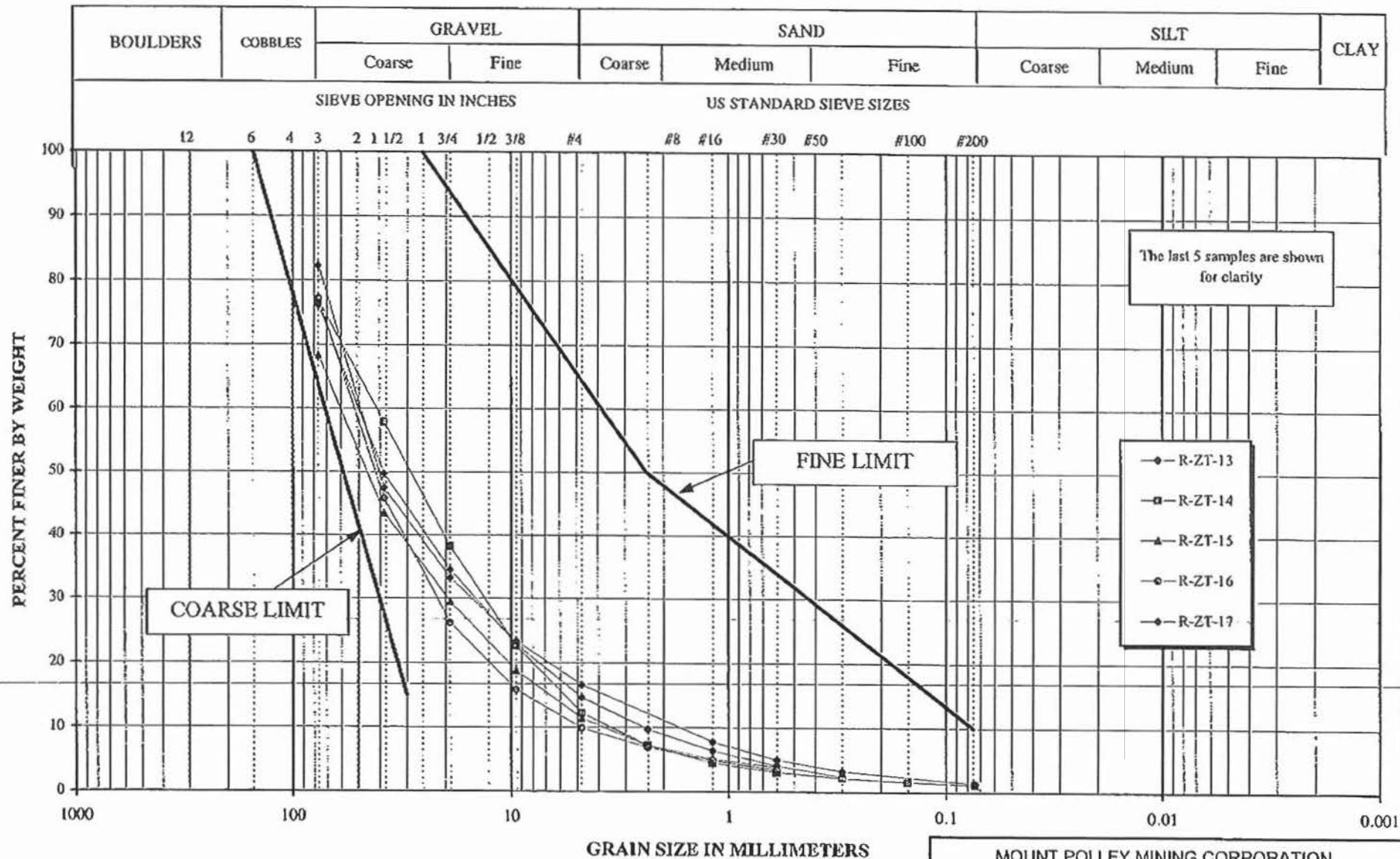
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 R2 Moisture Content (ASTM D2216)
 R3 Particle Size Distribution (ASTM D422)
 R4 Laboratory Compaction (ASTM D1557)
 R6 Specific Gravity (ASTM D854)

ny118321210001218-ZF-gradn.xls Fig 4.2

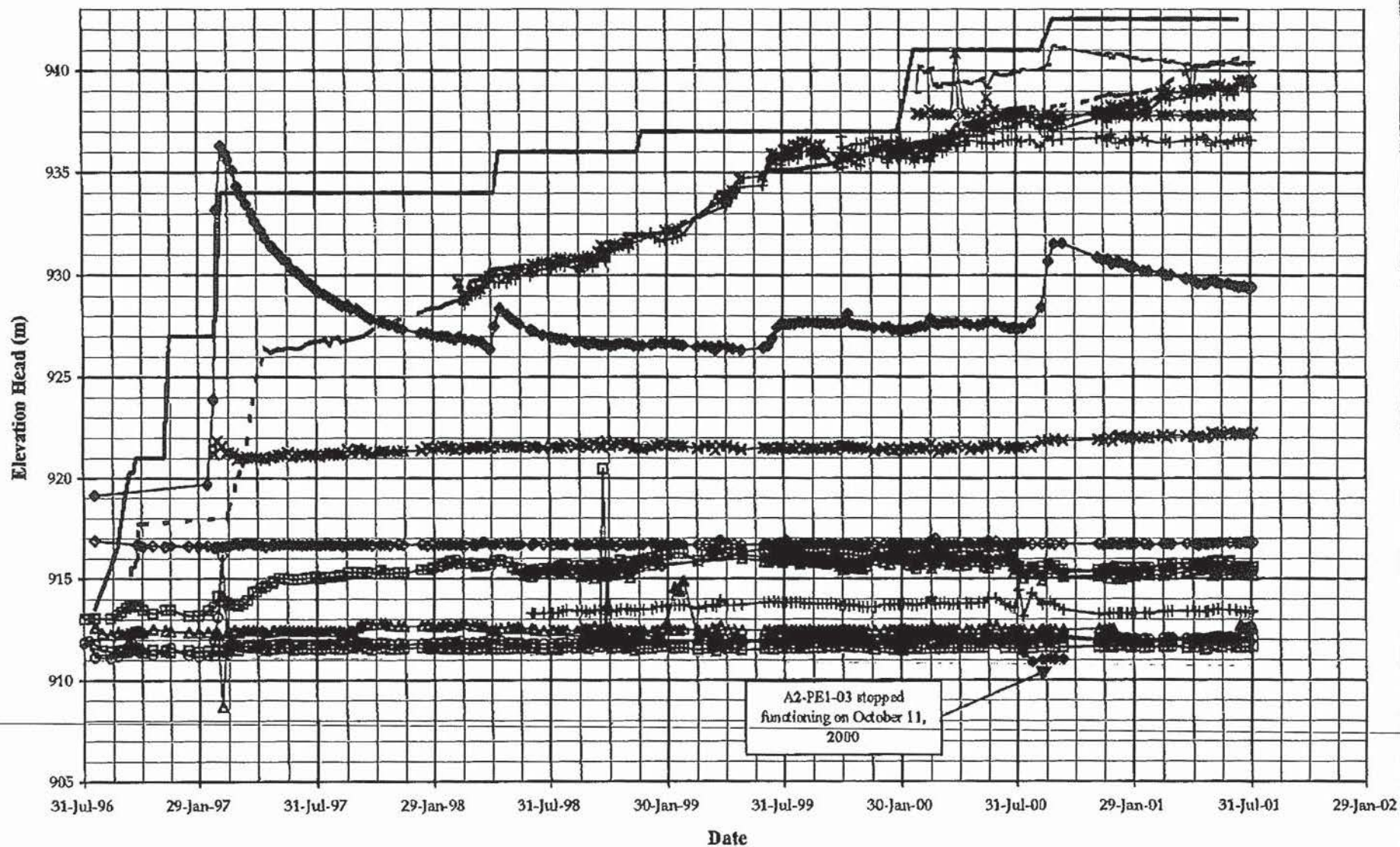
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MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
TAILINGS STORAGE FACILITY - STAGE 3B			
CONSTRUCTION - ZONE F RECORD SAMPLES			
GRADATION CURVES			
Knight Piésold		PROJECT NO. 11182/14	REV.
CONSULTING		FIGURE 4.2	



MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY - STAGE 3B		
CONSTRUCTION - ZONE T RECORD SAMPLES		
GRADATION CURVES		
Knight Piésold CONSULTING	PROJECT NO.	REF. NO.
	11162/54	
		REV.
FIGURE 4.4		



- - - Pond Level	— Fill Elevation	—*— A0-PE2-01	—+— A0-PE2-02
—△— A1-PE1-01	—□— A1-PE1-02	—◇— A1-PE1-03	—▲— A2-PE1-01
—■— A2-PE2-01	—○— A2-PE2-02	—◆— A2-PE2-03	—×— A2-PE2-05
—△— A2-PE2-06	—◇— A2-PE2-07	—+— A2-PE2-08	—+— A1-PE1-04
— A2-PE1-02	—×— A0-PE1-01	—◆— A2-PE1-03	

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

PLANE A PIEZOMETERS

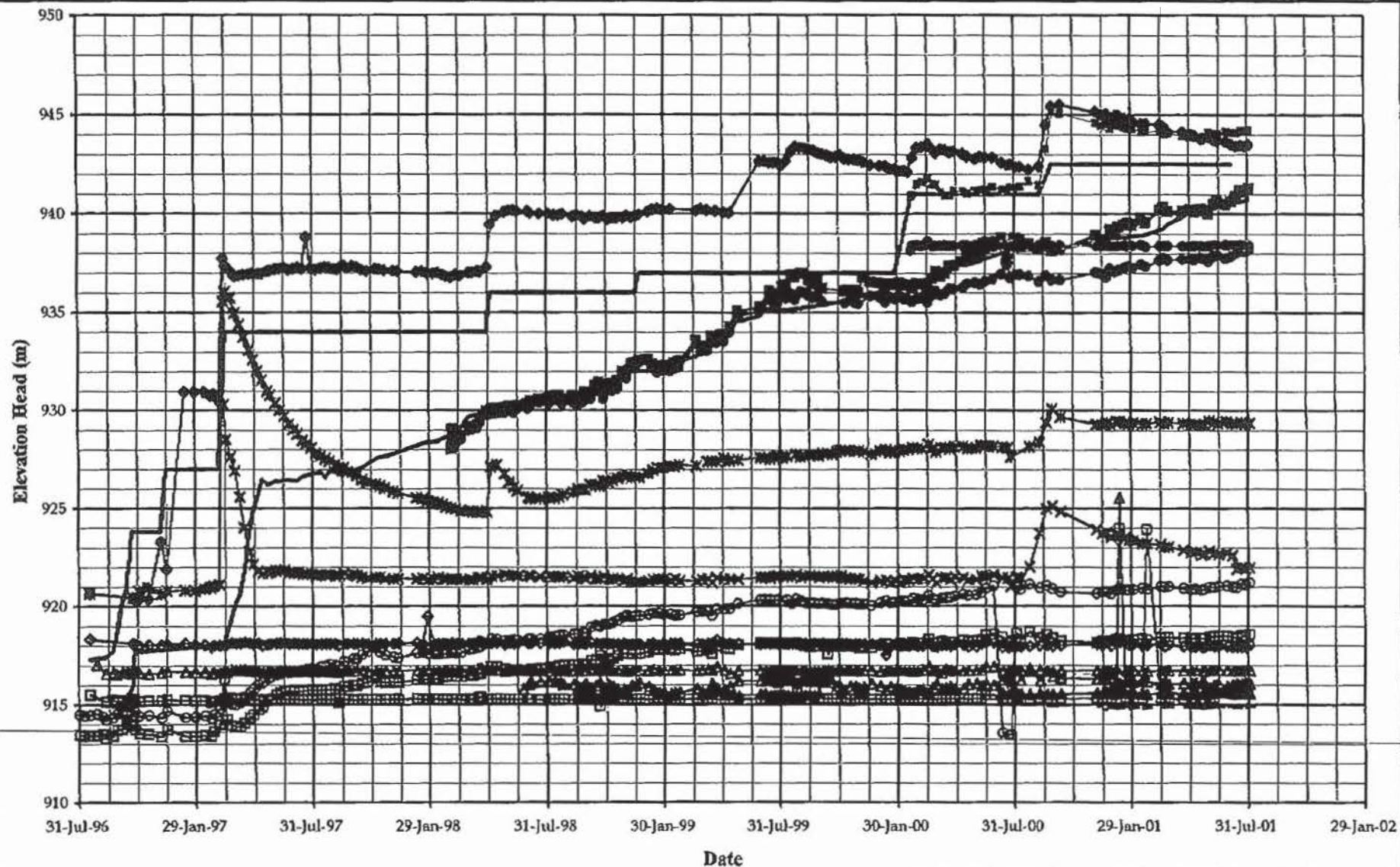
GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold
 CONSULTING
PROJECT NO.
11162/14

REF. NO.

REV.

FIGURE 5.1



— Pond Level — Fill Elevation ■ B0-PE1-01 ● B0-PE2-02 ▲ B1-PE2-01
 □ B1-PE1-01 ◆ B1-PE1-03 ★ B2-PE1-01 ▣ B2-PE2-01 ○ B2-PE2-02
 ◇ B2-PE2-03 ✱ B2-PE2-04 ✱ B2-PE2-05 ▲ B2-PE2-06 ● B0-PE1-01
 ■ B2-PE1-02 ■ B2-PE1-03

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

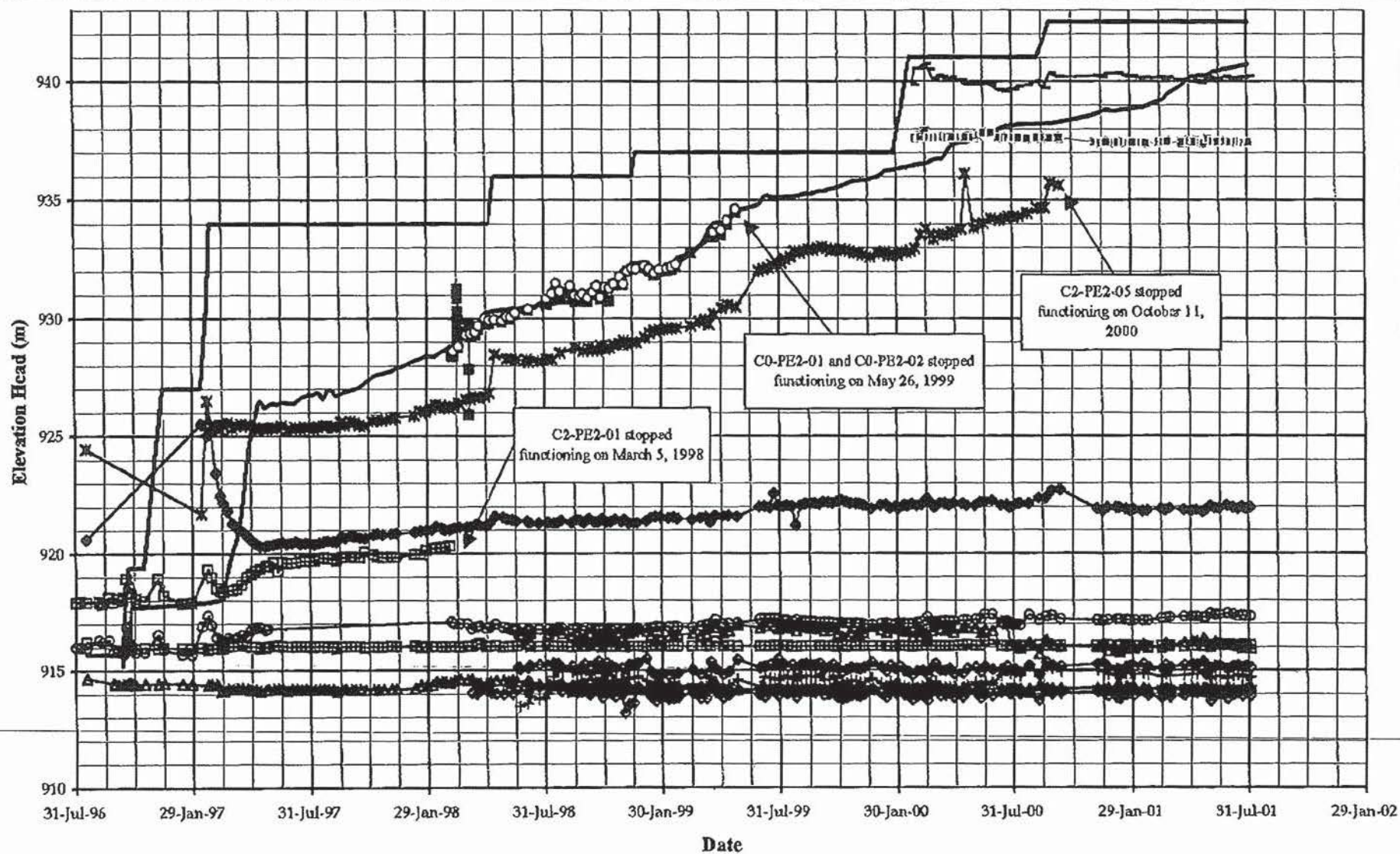
PLANE B PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

Knight Piesold
 CONSULTING

PROJECT NO. 11192/14	REF. NO.	REV.
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FIGURE 5.2



 Pond Level
  Fill Elevation
  C0-PE2-01
  C0-PE2-02
  C1-PE1-01
 C1-PE1-02
 C1-PE1-04
 C2-PE1-01
 C2-PE2-01
 C2-PE2-02
 C2-PE2-03
 C2-PE2-05
 C2-PE2-06
 C2-PE2-07
 C2-PE2-08
 C0-PE1-01
 C2-PE1-02
 C2-PE1-03

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

PLANE C PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

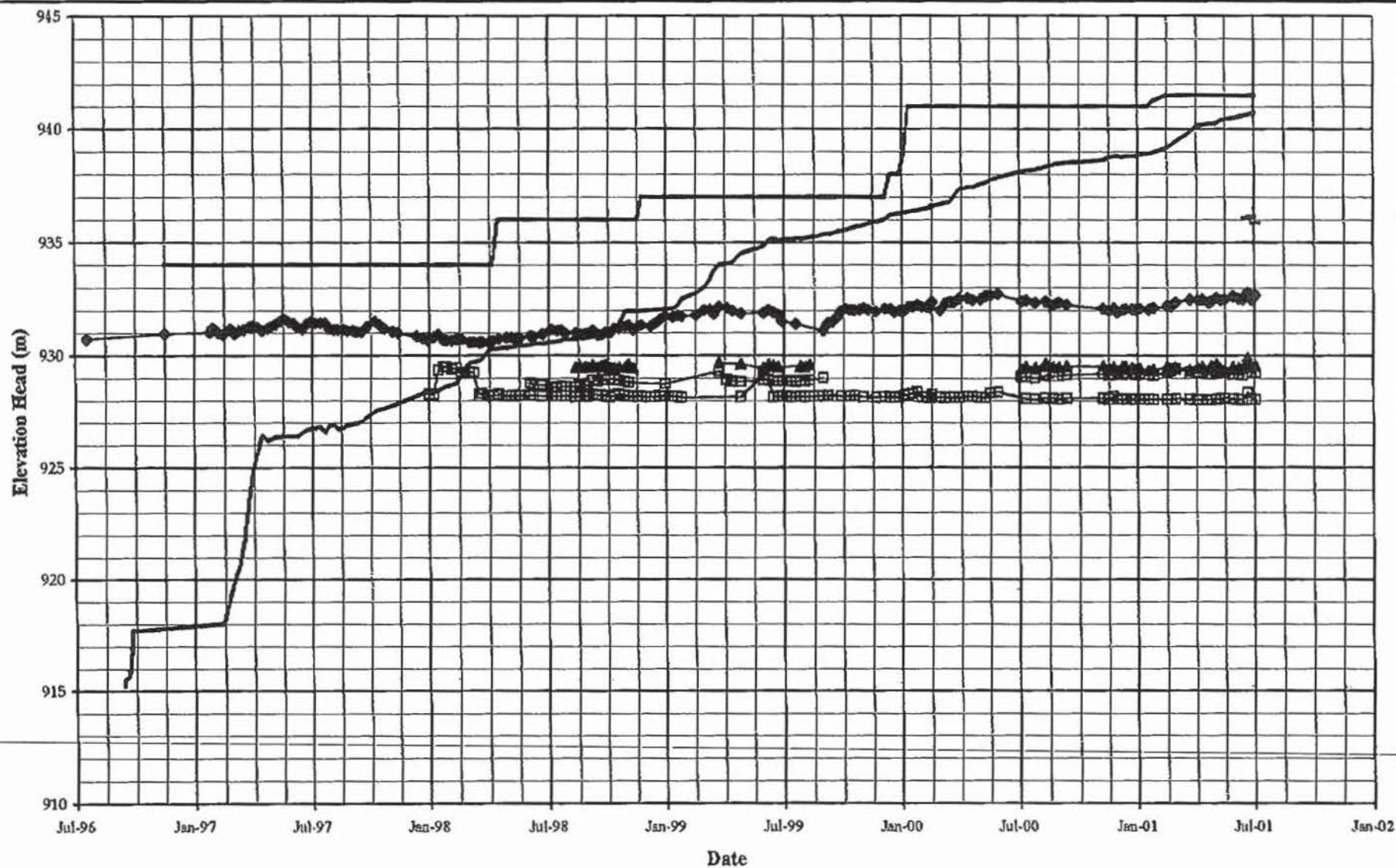
Knight Piésold
CONSULTING

PROJECT NO.	11162/14
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REF. NO.	
----------	--

REV.

FIGURE 5.3



— Pond Level — Fill Elevation □ D1-PE1-02 ▲ D2-PE1-01
 ◆ D2-PE2-01 □ D2-PE2-02 - D1-PE1-03

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

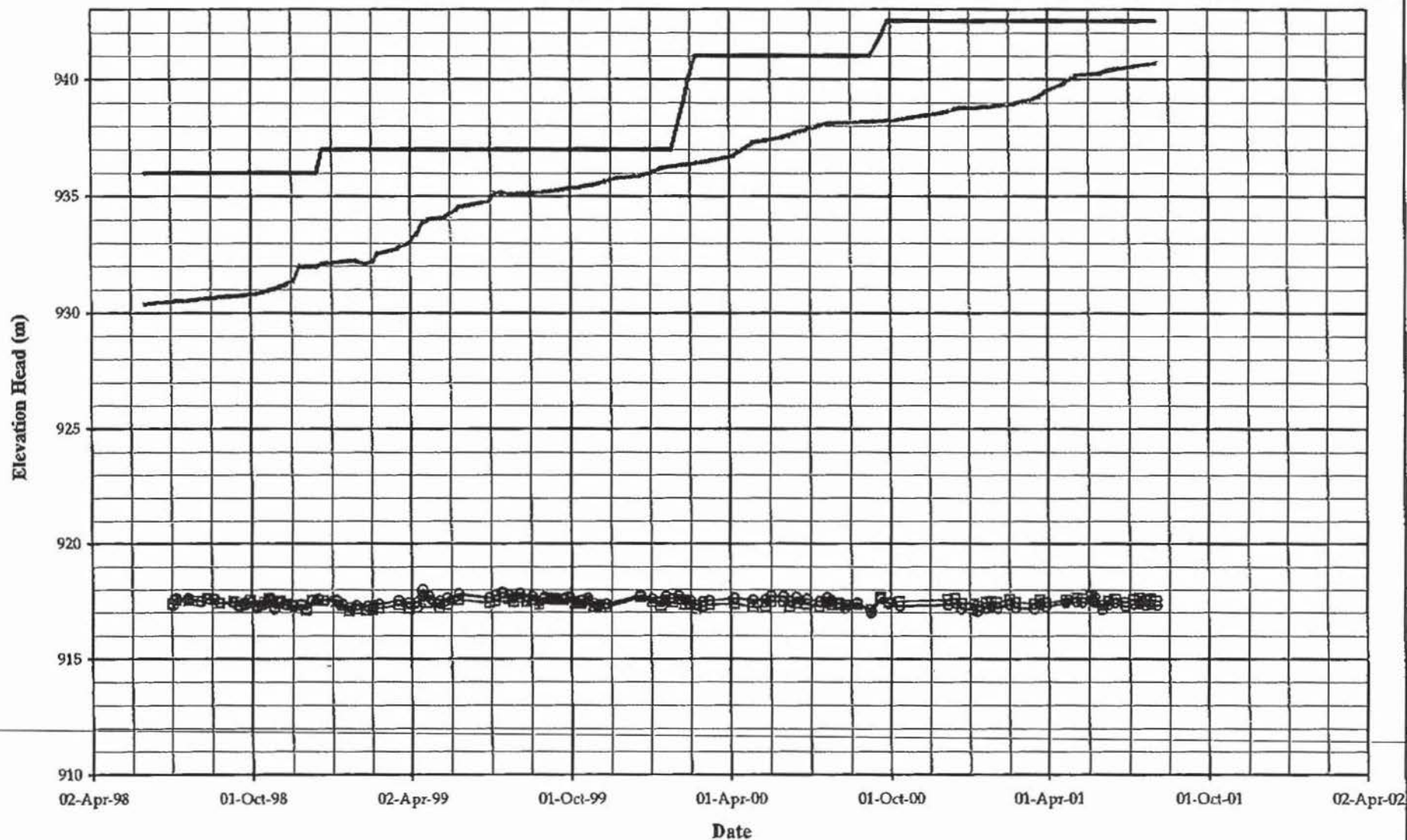
PLANE D PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

Knight Piesold
 CONSULTING

PROJECT NO. 11162/14	REF. NO.	REV.
-------------------------	----------	------

FIGURE 5.4



— Pond Level

— Fill Elevation

— E2-PE2-01

— E2-PE2-02

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

PLANE E PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

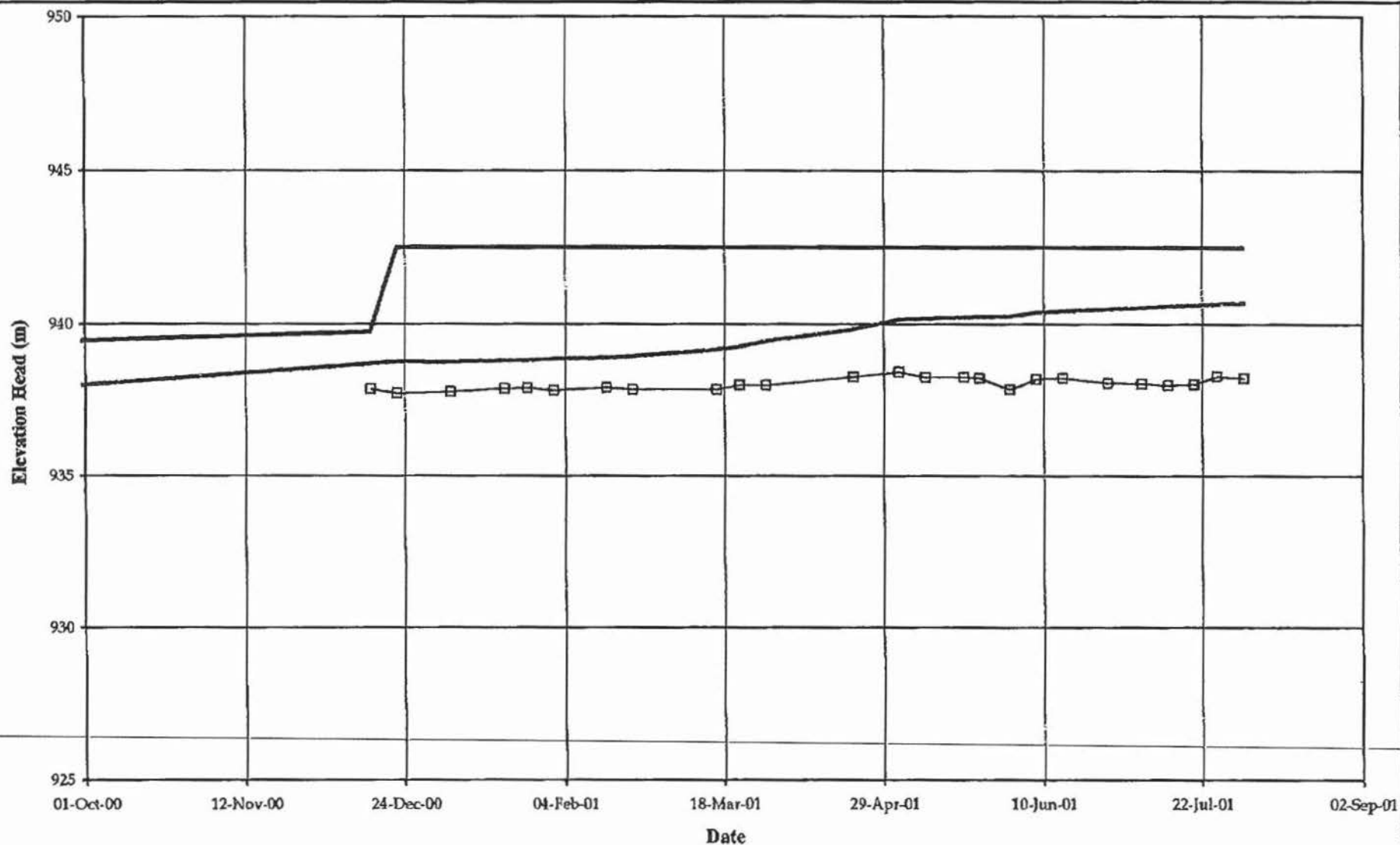
Knight Piésold
CONSULTING

PROJECT NO.
11162/14

REF. NO.

REV.

FIGURE 5.5



— Pond Level

— Fill Elevation

—□— F2-PE2-01

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

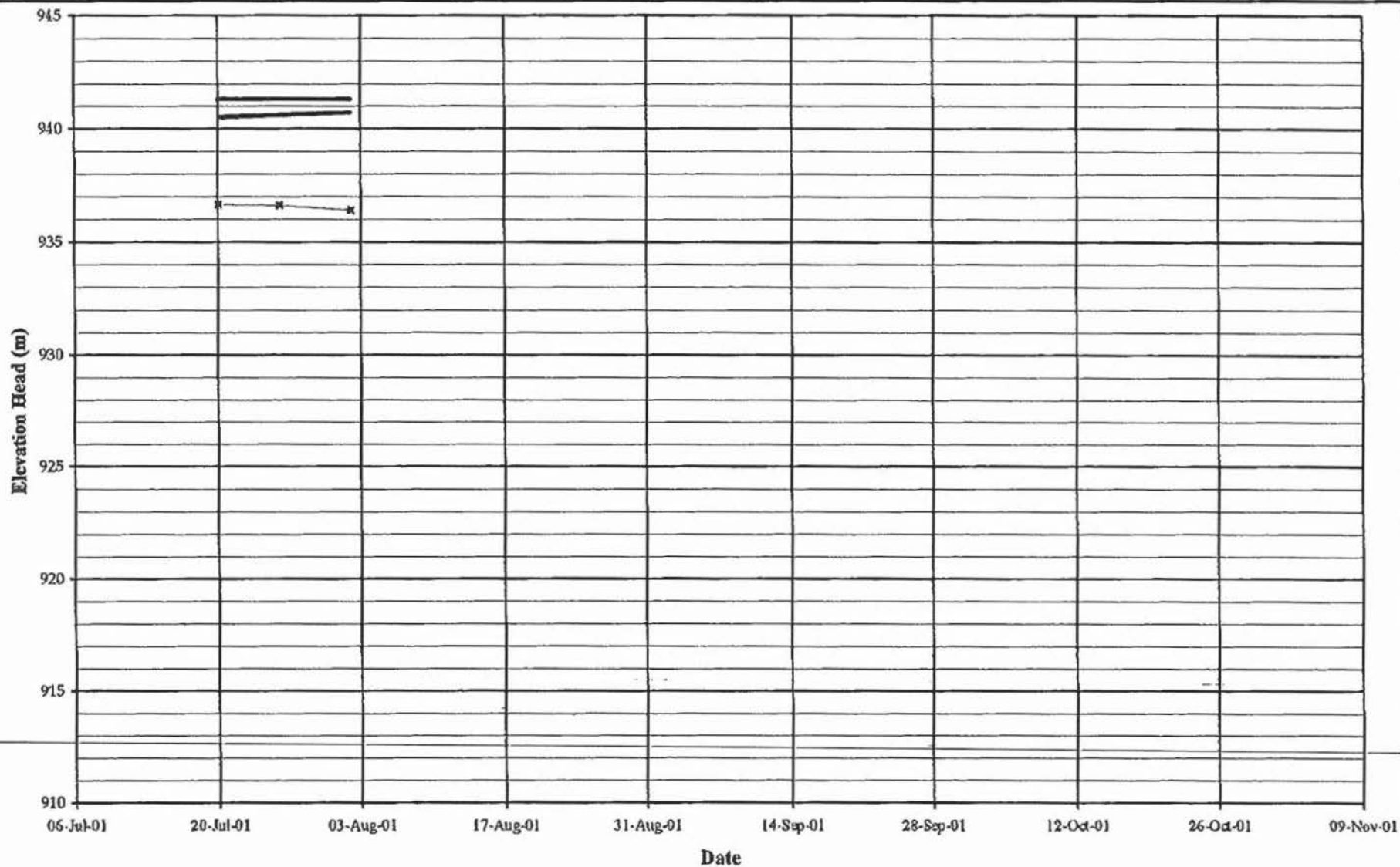
PLANE F PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold
 CONSULTING

PROJECT NO. 11162/14	REF. NO.	REV.
-------------------------	----------	------

FIGURE 5.6



— Pond Level

— Fill Elevation

—x— G1-PE1-01

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

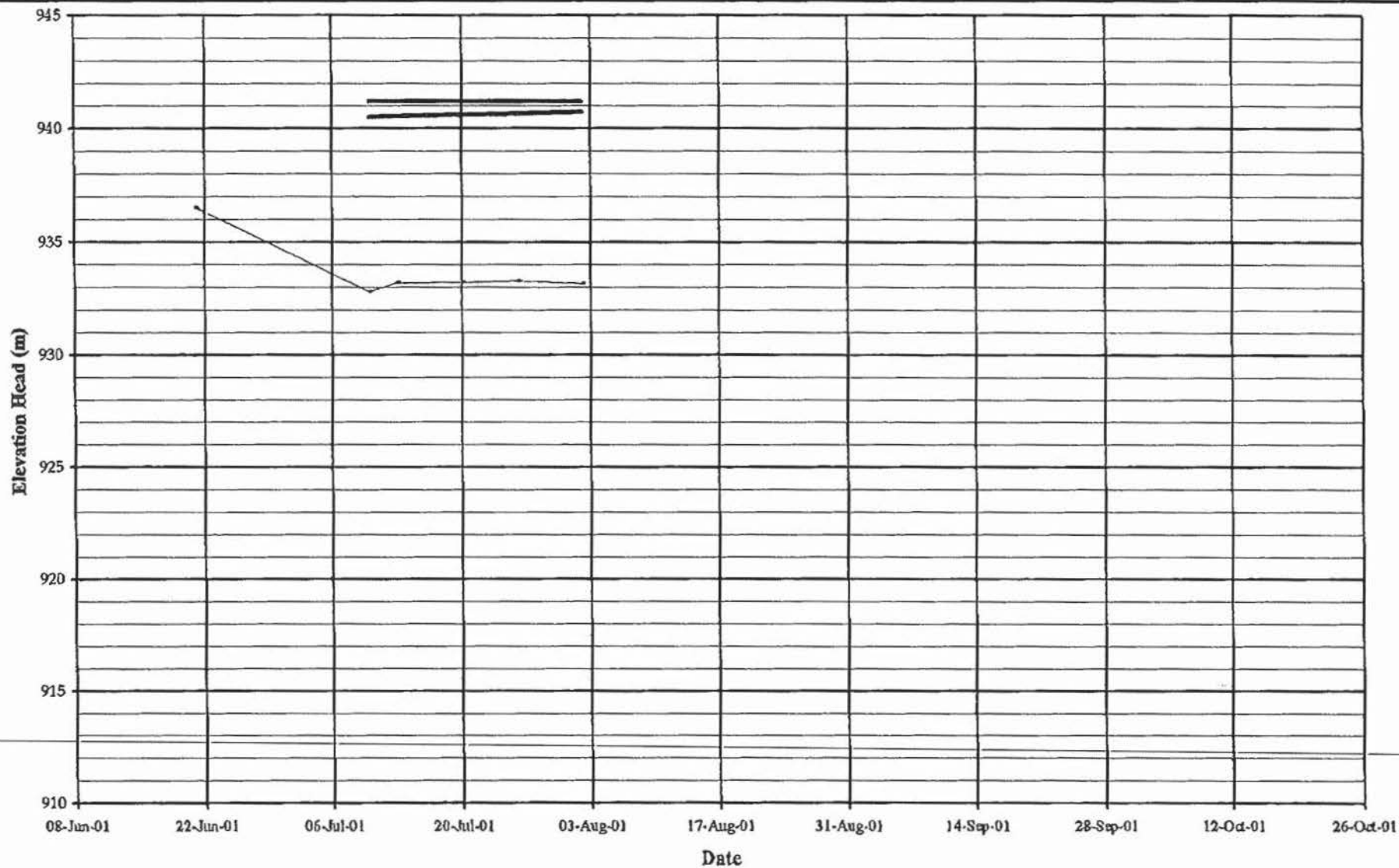
PLANE G PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

Knight Piesold
 CONSULTING

PROJECT NO. 11162/14	REF. NO.	REV.
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FIGURE 5.7



— Pond Level — Fill Elevation — H1-PE1-01

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

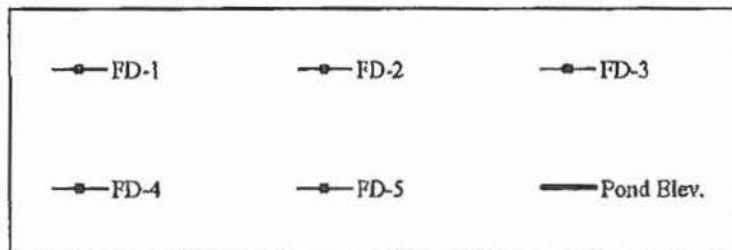
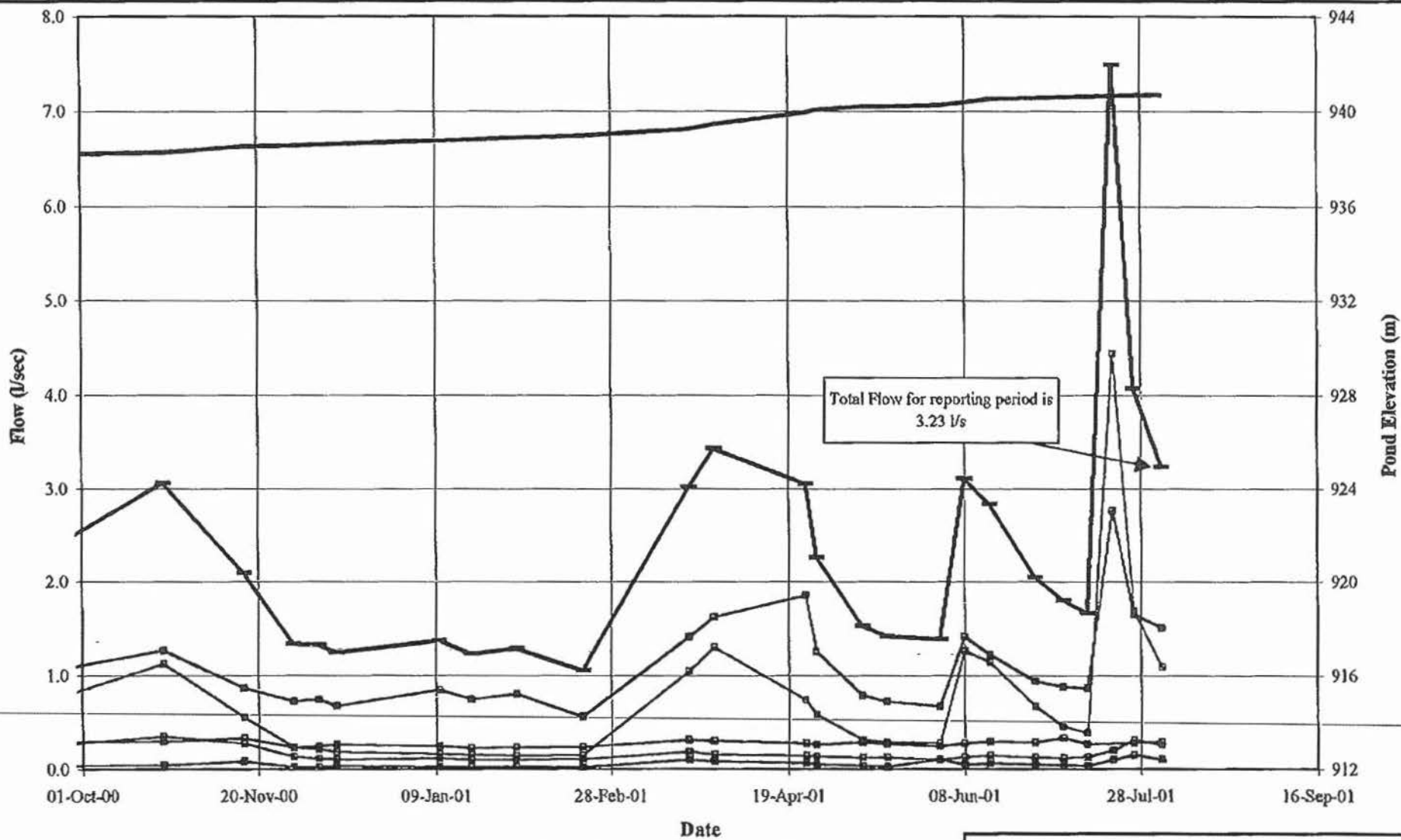
PLANE H PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold
CONSULTING

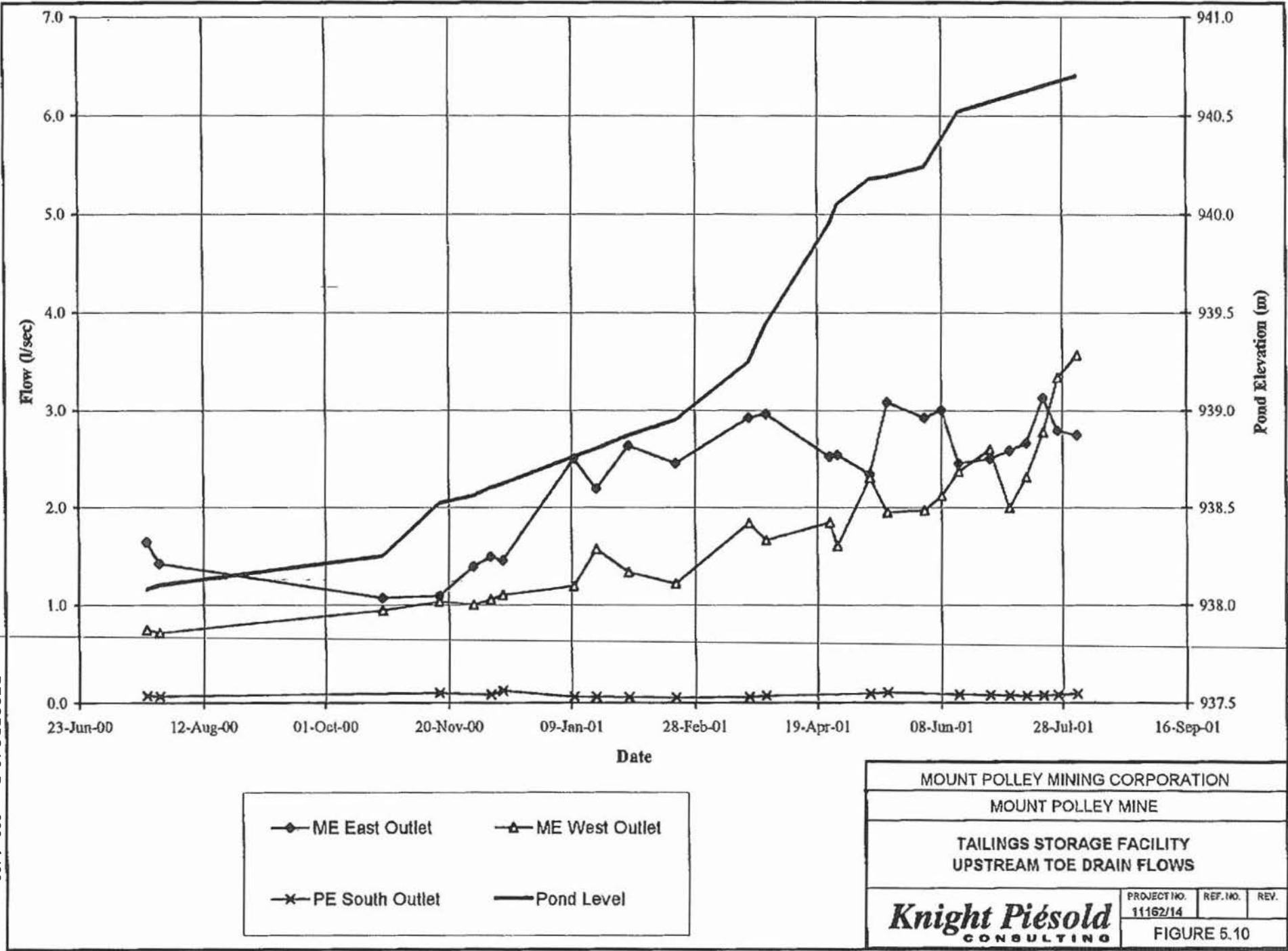
PROJECT NO. 11162/14	REF. NO.	REV.
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FIGURE 5.8

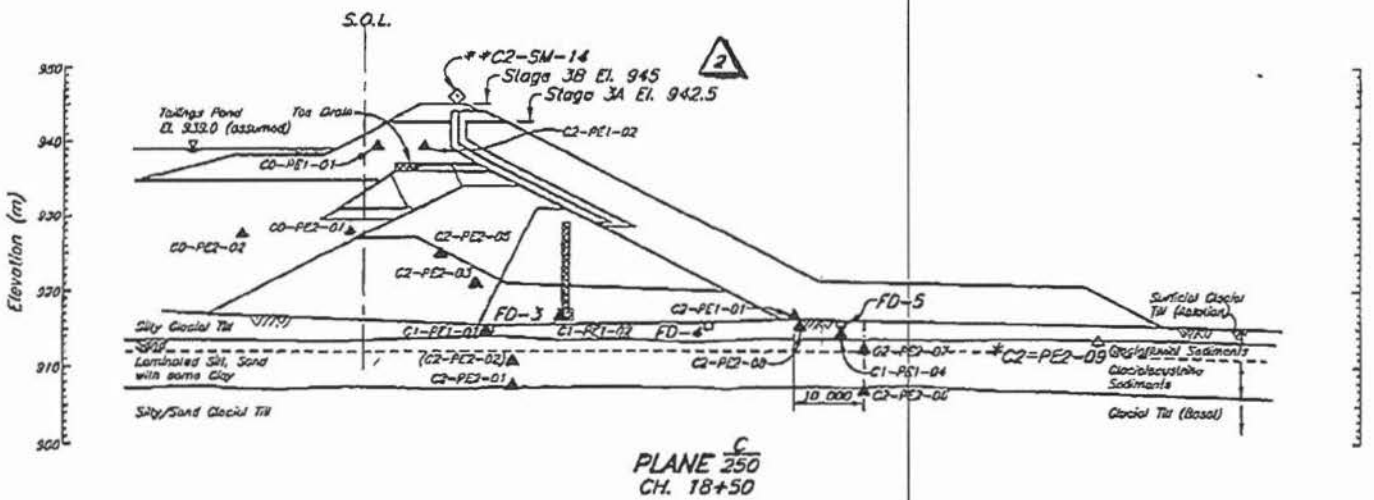
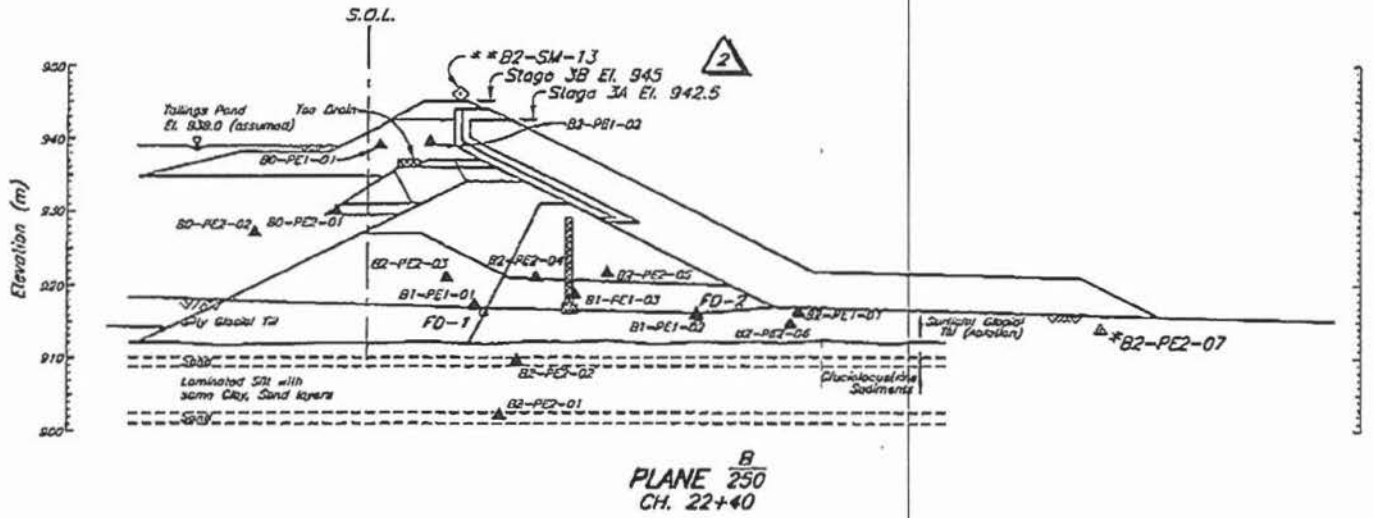
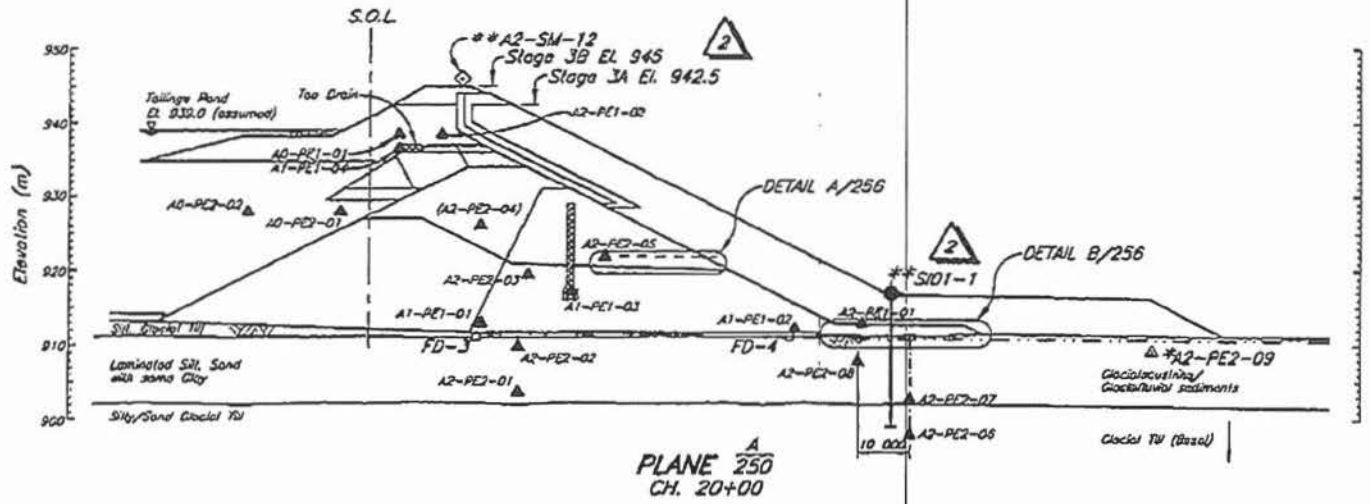


MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY MAIN EMBANKMENT FOUNDATION DRAIN FLOWS		
Knight Piésold CONSULTING	PROJECT NO. 11152/14	REF. NO.
	FIGURE 5.9	REV.

RECORDS 13 Page 383 of 438



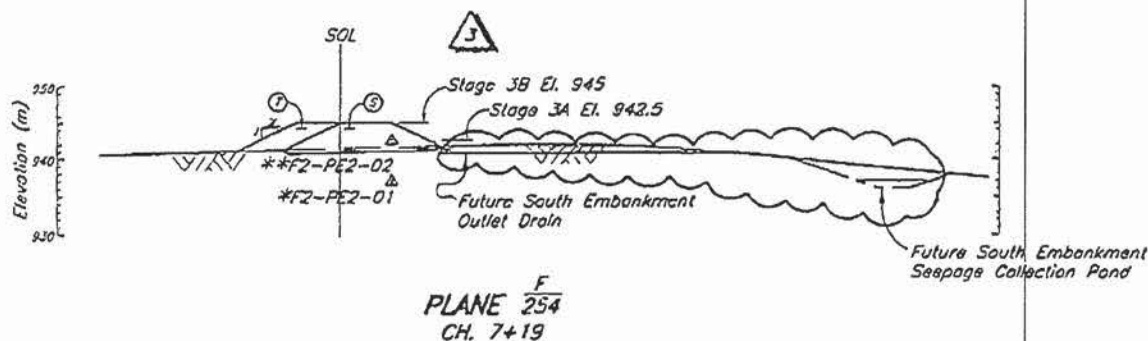
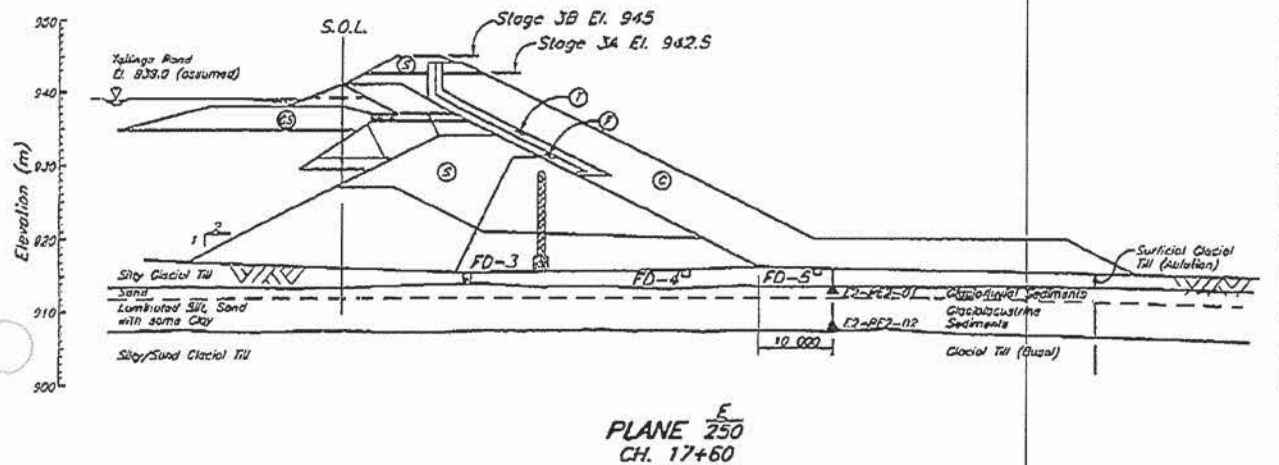
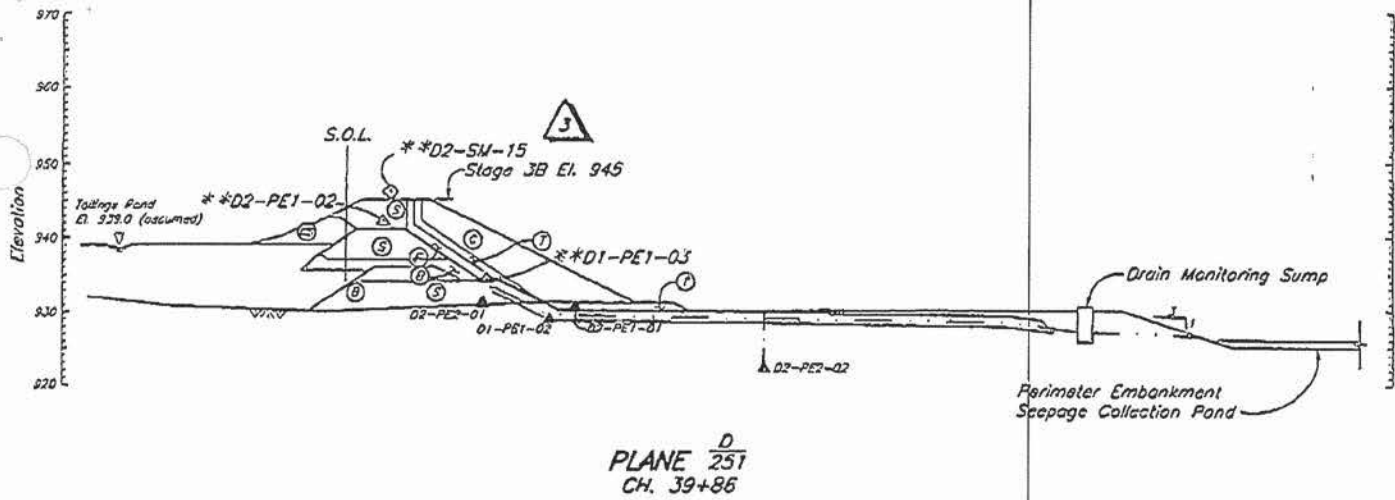
MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY UPSTREAM TOE DRAIN FLOWS		
Knight Piésold CONSULTING	PROJECT NO. 11162/14	REF. NO.
	FIGURE 5.10	



STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SECTIONS 2 OF 2
STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SUMMARY OF INSTALLATION & TYP. DETAILS
STAGE 3 MAIN EMBANKMENT - INSTRUMENTATION - PLAN

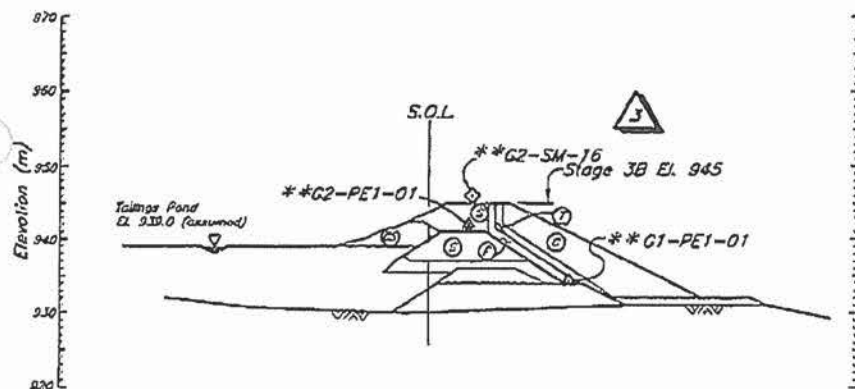
DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED	REV.	DATE
REFERENCE DRAWINGS			REVISIONS						

2 08MAY'01 ISSUED FC
1 26JAN'01 STAGE 3B
0 2JUN'00 ISSUED FC

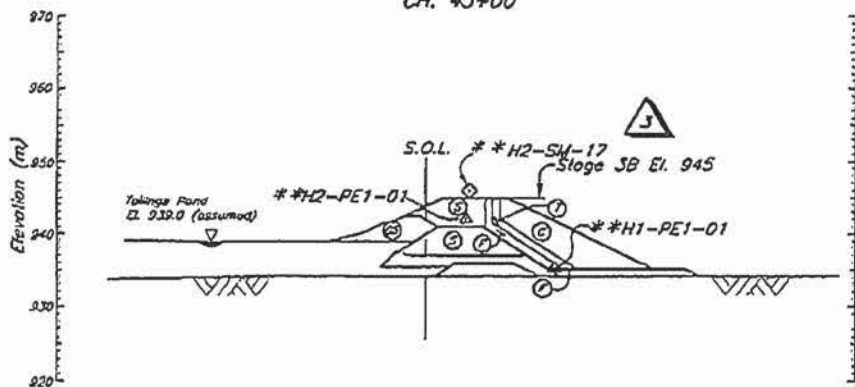


3 TAILINGS EMBANKMENT - INSTRUMENTATION SUMMARY OF INSTALLATION & TYPICAL DETAILS
3 TAILINGS EMBANKMENT - SOUTH EMBANKMENT - INSTRUMENTATION PLAN
STAGE 3 PERIMETER EMBANKMENT - INSTRUMENTATION PLAN
STAGE 3 TAILINGS EMBANKMENT - MAIN EMBANKMENT - INSTRUMENTATION PLAN
DESCRIPTION
REFERENCE DRAWINGS

3	08MAY'01	ISSUED FOR
2	26JAN'01	STAGE 3B
1	20OCT'00	PERIMETER
0	2JUN'00	ISSUED FOR



PLANE $\frac{G}{251}$
CH. 43+00



PLANE $\frac{H}{251}$
CH. 36+00

NOTE

1. See Drg. No. 11162-13-256 for Summary of Instrumentation Installations, Typical Details, General Notes and Legend.
2. Instrumentation with one asterisk indicates placement during Stage 3A construction. Instrumentation with 2 asterisks indicate placement during Stage 3B construction.



Scale 10 0 10 20 30 40 50 m



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 3 TAILINGS EMBANKMENT
INSTRUMENTATION
SECTIONS - SHEET 2 OF 2

STAGE 3B TENDER	CWM	OSR	JRK	KJB
3 - CREST ELEVATION 945	JRK	AM	JMTW	KJB
ER EMBANKMENT SECTIONS ADDED	JRK	NSD	JMTW	KJB
FOR CONSTRUCTION	JRK	TAM	ABW	KJB
DESCRIPTION	DESIGN	DRAWN	CHECK	APPROVED
REVISIONS	OSR	ABW	KJB	

Knight Piésold
CONSULTING

SCALE	AS SHOWN	REVISION
DRAWING NO.	11162-13-259	3

KPM CONSULTING INC. - 640 B.C. HIGHWAY 100, SUITE 100, V1V 1S5, BC, CANADA

Knight Piésold
CONSULTING

Mount Polley Site Office Fax: (250) 790-2268
www.knightpiésold.com

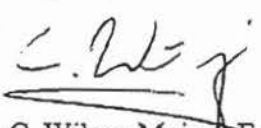
DATE: August 14, 2001 FILE NO.: 11162/14.F01/.F02/
 .F04/.F05/.F08
 TIME:
 REF NO.: 01-30
 OPERATOR: PAGES: 1 of 25
 SENDER: Wilson Muir

TO: Ministry of Energy and Mines, Victoria B.C. FAX : 250-952-0481
 ATTN: Chris Carr
 CC: Ken Brouwer, KP Vancouver
 Don Parsons / Eric LeNeve, MPMC Site
 SUBJECT: Progress Report No. 18

Dear Mr. Carr,

Please find enclosed a copy of Progress Report No. 18 from August 6 to August 12, 2001. If you have any questions, please do not hesitate to contact me on site or Ken Brouwer in our Vancouver office.

Regards,


 C. Wilson Muir, P.Eng.
 Resident Engineer
 Knight Piésold Consulting

The content of this communication is confidential. If you are not the intended recipient, please notify us immediately. Unauthorized use or disclosure of this communication or its content is unlawful.



MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
PROGRESS REPORT NO. 18 - AUGUST 6 TO AUGUST 12, 2001

SECTION 1.0 - GENERAL

Mount Polley Mining Corporation (MPMC) continued Stage 3B construction activities. Knight Piésold Ltd. (KP) carried out QA/QC activities during the reporting period.

The scope of work includes placement of Zones S, F, T and C to El. 942.5 m on the Perimeter Embankment (Ch. 28+00 to 44+50). MPMC is carrying out the majority of this work. Material haulage only is being completed by sub-contractors.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- Wilson Muir, Resident Engineer.

The following MPMC personnel were on site during the reporting period:

- | | |
|------------------|----------------------|
| ▪ Don Parsons | Mine Superintendent |
| ▪ Eric LeNeve | Tailings Coordinator |
| ▪ Charlie O'Hara | General Foreman |
| ▪ Don Jameson | Site Foreman |
| ▪ Ron Gale | Site Foreman |

1.2 CONTRACT DEVELOPMENTS

No new contract developments took place over the reporting period.

1.3 DESIGN DEVELOPMENTS

No new design developments occurred during the reporting period.

1.3 WEATHER

Conditions were warm and sunny during the reporting period with maximum daytime highs reaching about +28 °C and nightly lows sinking to as low as +8 °C.

Knight Piesold CONSULTING

1.4 SAFETY

No new safety incidents occurred over the reporting period.

SECTION 2.0 - TAILINGS FACILITY OPERATION AND MAINTENANCE

Tailings were spigotted along the Main Embankment crest during the reporting period at approximate Chainage 19+00 to obtain a well developed, even beach at the Main Embankment. The tailings line will then be moved to the ridge between the Main and South Embankments. It is anticipated that tailings will form a substantial beach in this area by discharging at this location.

The Tailings Pond remains a significant distance from the Perimeter Embankment.

SECTION 3.0 - CONSTRUCTION ACTIVITIES

3.1 EQUIPMENT

MPMC used the following equipment over the reporting period:

- Excavators: 1 Hitachi EX 270, 1 Hitachi EX 400
- Haul Trucks: 2 Caterpillar 777 85T
- Loaders: 1 Caterpillar 992B
- Dozers: 1 Caterpillar D6, 1 Caterpillar D8K, 1 Caterpillar D7G
- Compactors: 1 Caterpillar CS 563 10T vibratory smooth drum
- Graders: 1 Caterpillar 14G
- Service, water and fuel trucks
- Lake Excavating: 6 dump trucks and 1 Caterpillar 966 loader

MPMC carried out the following activities during the reporting period:

- Placement of Zone F, Perimeter Embankment: Ch. 37+00 to 39+50, El. 934.0 to 938.0 m.
- Placement of Zone S, Perimeter Embankment: Ch. 32+00 to 36+00, El. 941.3 to 942.5 m

Zone F was delivered from the stockpile at the millsite and Zone S originated from Borrow Area 2. Zone F was placed in a 1 m thick lift on the downstream embankment slope over stiff Zone S, while Zone S was placed in 300 mm horizontal lifts.

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SECTION 4.0 - KNIGHT PIÉSOLD ACTIVITIES

4.1 GENERAL

KP activities over the reporting period included the following:

- Monitoring and inspection of fill placement of Zones F and S.
- Submission of daily summaries of QA/QC and construction activities to MPMC.
- Control and Record sampling and testing of embankment fill materials.
- Ongoing discussions and correspondence with MPMC and KP Vancouver with regard to current and future design.
- Preparation of progress reports.
- Preparation of the Annual Report and the Stage 3 Construction Report

4.2 Laboratory Testing

The following samples were processed during the reporting period:

- R-ZF-41B
- C-ZF-46

The lone Zone F record sample was a re-test of R-ZF-41, which was on the fine side of the specification on the #100 sieve. The re-test proved that the material was suitable for Zone F fill. The original sample will be stricken from the record since it is deemed that there was an error in testing this sample. The control test completed during the reporting period proved suitable for Zone F also. All tests carried out during the reporting period are presented in the attached tables and figures.

SECTION 5.0 - MONITORING

5.1 GENERAL

Instrumentation was monitored during the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

5.2 VIBRATING WIRE PIEZOMETERS

No new piezometers were installed during the reporting period.

Piezometer readings are taken on a weekly basis. The results from the monitoring are shown on Figures 5.1 to 5.8. Locations of the piezometers are presented on the attached Drawings.

Foundation Piezometers

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No substantial changes were noted in the foundation piezometers.

Fill Piezometers

The majority of the Main Embankment glacial till piezometers responded to construction of the overlying Stage 3A fills with increasing pore pressures. Generally, these piezometers are now fully dissipated, as a constant, horizontal trend has been showing for some time now.

Two piezometers located within the Stage 1A glacial till fill have historically registered anomalous values, and warrant discussion.

Piezometer B2-PE2-03 reacted strongly to fill placement during initial construction. Pore pressures did not dissipate in the periods following fill placement, but remained constant. This is in direct contrast to other instruments located nearby. This trend changed in 1999, when B2-PE2-03 began to show dissipation at the completion of fill placement. This new trend has been repeated three times, with approximately the same dissipation rate after each stage of construction, with an increase in pore pressure between 50 and 100% of the increase in total stress. It appears that drainage paths were limited in the fill around this piezometer and pore pressures are still equilibrating.

Piezometer C2-PE2-05 is also located in the Stage 1A glacial till fill. This instrument historically showed little or no reaction to construction, but indicated a slow, steady increase in pore pressure over time. This suggests that pore pressures in the fill around C2-PE2-05 are reaching a steady state condition as the phreatic surface moves through the fill. It should be noted that the pressure head registered by this piezometer is approximately 10 m. This is similar to other piezometers located in comparable locations in the glacial till fill.

Drain Piezometers

All drain piezometers have remained static and at very low head indicating free draining conditions within the embankment drainage systems.

Tailings Piezometers

Readings at the tailings piezometers continue to mimic the pond level, except at the Main Embankment, where the upstream toe drain has resulted in a depressed phreatic surface.

5.3 DRAIN FLOWS

Drains flows were recorded on August 9, 2001. The results from the foundation drains and upstream toe drain are shown on Figures 5.9 and 5.10, respectively.

5.4 SLOPE INCLINOMETERS

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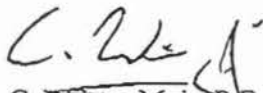
The equipment to monitor, record and evaluate the data from the slope inclinometers is expected to be on site during the second week of August. Exact depths of the inclinometers will be determined and calibration measurements will be carried out at that time.

SECTION 6.0 - ONGOING ITEMS

The following items will be addressed during upcoming reporting periods:

- MPMC will continue to construct the Stage 3B Perimeter Embankment to El. 942.5 m.
- The slope inclinometers will be measured and calibrated.
- KP will continue to provide QA/QC and site supervision activities in accordance with the technical specifications.

Submitted by,


C. Wilson Muir, P.Eng.
Resident Engineer
Knight Piésold Consulting.

Distribution: Eric LeNeve, Tailings Coordinator, MPMC Site
Don Parsons, Mine Superintendent, MPMC Site
Chris Carr, Ministry of Energy and Mines, Victoria, B.C.
Ken Brouwer, KP Vancouver

TABLE 4.1

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION

ZONE F CONTROL TEST SUMMARY SHEET

H:\ENG\DATA\EngDocs\Geotechnical\Spill\Stage 3B Construction\Spill\Control\JCZF-screens.xls Date Sheet

8/2/01

PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION										SHEET: 1 of 1																	
MATERIAL: Zone F - Filter Sand										PERIOD: August 6 to August 12, 2001																	
AREA: Zone F Stockpile										PROJECT NO.: 11162/14																	
Sample No.	Date Sampled	Location	El. (m)	C1			C2	Fic16	LI	C3 (Particle Size Distribution)														C4		Specific Gravity	
				Atterberg Limits						101.6	75.2	38.1	25.4	19.05	12.7	9.525	4.75	2.36	1.18	0.6	0.3	0.149	0.075	0.02	Standard Proctor		
				PL %	LL %	PI %																			Max Dry Density kg/m ³		Optimum w/c %
C-ZF-3-1	17-Jul-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		72.8		39.8	28.7		9.5		8.3	2.9	-	-	-	
C-ZF-3-2	19-Jul-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		67.6		39.1	33.2	29.7	14.9	10.0	6.2	3.7	-	-	-	
C-ZF-3-3	19-Jul-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		79.3		38.6	23.7	14.1	10.8	7.0	4.0	2.4	-	-	-	
C-ZF-3-4	20-Jul-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		88.1		50.1	33.7	20.6	13.8	9.3	5.3	3.1	-	-	-	
C-ZF-3-5	21-Jul-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		83.0		39.0	25.4	18.8	11.7	7.8	3.3	1.0	-	-	-	
C-ZF-3-6	24-Aug-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		76.9		39.5	25.8	17.3	12.2	5.3	2.8	1.5	-	-	-	
C-ZF-3-7	24-Aug-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		7.3		29.2	17.0	11.0	7.5	4.8	2.6	1.5	-	-	-	
C-ZF-3-8	25-Aug-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		86.2		53.3	35.3	21.5	14.2	9.0	4.0	2.3	-	-	-	
C-ZF-3-9	6-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		82.1		44.6	30.0	19.6	13.3	7.7	4.0	1.8	-	-	-	
C-ZF-3-10	6-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		80.3		36.6	23.1	16.1	11.3	7.0	3.3	1.1	-	-	-	
C-ZF-3-11	8-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		78.1		39.3	23.6	14.5	9.2	5.4	2.9	1.3	-	-	-	
C-ZF-3-12	9-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		81.7		46.5	30.5	19.5	12.1	6.7	3.2	1.2	-	-	-	
C-ZF-3-13	9-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		87.0		52.9	35.3	22.7	14.3	8.2	4.2	1.7	-	-	-	
C-ZF-3-14	9-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		82.5		44.5	30.0	19.5	12.3	6.7	3.1	1.1	-	-	-	
C-ZF-3-15	12-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		76.3		34.5	25.7	18.2	12.5	9.3	5.2	2.6	-	-	-	
C-ZF-3-16	13-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		76.7		39.9	26.0	16.6	10.0	5.3	3.0	1.6	-	-	-	
C-ZF-3-17	13-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		90.8		55.3	38.6	27.3	19.1	12.6	7.8	4.0	-	-	-	
C-ZF-3-18	13-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		90.9		55.0	37.0	24.9	16.2	10.0	45.7	3.0	-	-	-	
C-ZF-3-19	15-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		91.9		60.1	41.6	27.1	17.1	9.9	5.2	2.2	-	-	-	
C-ZF-3-20	17-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		82.4		41.4	28.0	19.3	12.3	6.4	3.0	1.5	-	-	-	
C-ZF-3-21	17-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		85.1		38.7	19.6	12.4	8.4	5.1	2.6	1.5	-	-	-	
C-ZF-3-22	18-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		87.9		35.1	16.4	10.1	6.8	4.5	3.1	2.0	-	-	-	
C-ZF-3-23	18-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		92.0		51.8	30.2	18.2	12.0	7.3	3.6	1.5	-	-	-	
C-ZF-3-24	18-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		87.7		42.0	24.5	15.7	10.6	6.6	3.6	1.8	-	-	-	
C-ZF-3-25	11-Nov-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		83.3		50.8	34.0	27.5	15.2	9.5	4.6	2.1	-	-	-	
C-ZF-3-26	29-Nov-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		79.7		44.7	29.7	20.0	14.1	10.2	5.0	2.8	-	-	-	
C-ZF-3-27	4-Dec-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0		85.3		58.0	42.8	31.3	23.9	17.5	11.1	6.8	-	-	-	
C-ZF-3-31	28-Mar-01	Zone F Stockpile	-	-	-	-	4.1	-	-	100.0	100.0	100.0	100.0	99.6		84.0	61.6	43.0	26.5	21.3	16.5	12.7	10.0	-	-	-	
C-ZF-3-32	28-May-01	Zone F Stockpile	-	-	-	-	4.0	-	-	100.0	100.0	100.0	100.0	99.4		78.9	59.9	43.4	29.6	21.9	16.8	13.1	10.4	-	-	-	
C-ZF-3-33	28-May-01	Zone F Stockpile	-	-	-	-	2.9	-	-	100.0	100.0	100.0	100.0	98.7		56.0	28.1	17.6	12.8	10.1	7.8	6.1	4.8	-	-	-	

TABLE 4.1

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION

ZONE F CONTROL TEST SUMMARY SHEET

H:\ENQDATA\EngDocs\Geotech\Tailings\Stage 3B Construction\Subcontract\4\CZF-sum.xls\Data Sheet

6/13/01

Knight Piesold CONSULTING										SHEET: 1 of 1																			
PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION										PERIOD: August 6 to August 12, 2001																			
MATERIAL: Zone F - Pillar Sand										PROJECT NO.: 11162/14																			
										AREA: Zone F Stockpile																			
Sample No.	Date Sampled	Location	DL (m)	C1			C2	L1	C3 (Particle Size Distribution)															C4			C5		
				Atterberg Limits					Field m/c	101.6	75.0	60.0	47.5	37.5	30.0	25.0	20.0	15.0	12.5	10.0	7.5	6.0	5.0	4.0	3.0	2.0		Standard Proctor	Specific Gravity
				PL	LL	PI																							
				%	%	%																							
CZF-3-34	11-Jun-01	Zone F Stockpile	-	-	-	-	3.7	-	100.0	100.0	100.0	100.0	99.3	-	59.2	35.0	24.2	15.0	10.5	7.8	6.1	4.8	-	-	-	-			
CZF-3-35	11-Jun-01	Zone F Stockpile	-	-	-	-	4.2	-	100.0	100.0	100.0	100.0	99.9	-	59.3	34.7	24.7	15.3	10.6	8.0	6.4	5.1	-	-	-	-			
CZF-3-36	12-Jun-01	Zone F Stockpile	-	-	-	-	2.6	-	100.0	100.0	100.0	100.0	97.7	-	60.6	37.0	24.2	16.5	12.2	9.4	7.1	5.6	-	-	-	-			
CZF-3-37	3-Jul-01	Zone F Stockpile	-	-	-	-	1.5	-	100.0	100.0	100.0	100.0	95.0	-	56.3	34.9	23.7	16.1	11.5	8.0	4.2	2.2	-	-	-	-			
CZF-3-38	3-Jul-01	Zone F Stockpile	-	-	-	-	2.6	-	100.0	100.0	100.0	100.0	94.5	-	76.7	55.6	40.0	27.2	19.0	12.9	6.5	3.3	-	-	-	-			
CZF-3-39	3-Jul-01	Zone F Stockpile	-	-	-	-	2.6	-	100.0	100.0	100.0	100.0	99.5	-	75.4	41.2	24.5	14.3	9.8	6.7	3.7	1.9	-	-	-	-			
CZF-3-40	4-Jul-01	Zone F Stockpile	-	-	-	-	3.6	-	100.0	100.0	100.0	100.0	99.3	-	68.6	44.7	30.2	18.8	12.3	6.9	3.2	1.5	-	-	-	-			
CZF-3-41	4-Jul-01	Zone F Stockpile	-	-	-	-	5.5	-	100.0	100.0	100.0	100.0	99.2	-	77.0	54.7	36.7	21.3	11.9	6.3	1.7	1.8	-	-	-	-			
CZF-3-42	13-Jul-01	Zone F Stockpile	-	-	-	-	5.3	-	100.0	100.0	100.0	100.0	96.9	-	69.4	45.3	27.4	16.9	10.3	5.9	3.9	-	-	-	-	-			
CZF-3-43	13-Jul-01	Zone F Stockpile	-	-	-	-	5.5	-	100.0	100.0	100.0	100.0	99.1	-	79.3	57.4	39.0	26.0	16.7	9.1	4.5	-	-	-	-	-			
CZF-3-44	28-Jul-01	Zone F Stockpile	-	-	-	-	6.9	-	100.0	100.0	100.0	100.0	99.1	-	80.2	60.7	50.1	39.5	30.8	21.6	18.8	14.9	-	-	-	-			
CZF-3-45	29-Jul-01	Zone F Stockpile	-	-	-	-	8.1	-	100.0	100.0	100.0	100.0	95.0	-	60.7	43.6	32.5	24.5	19.3	13.6	12.6	10.2	-	-	-	-			
CZF-3-46	9-Aug-01	Zone F Stockpile	-	-	-	-	6.4	-	100.0	100.0	100.0	100.0	100.0	-	86.4	52.4	32.2	21.7	17.1	14.0	11.5	9.5	-	-	-	-			
MEAN				ADIV/01	ADIV/02	ADIV/03	ADIV/04	4.3	ADIV/05	100.0	100.0	100.0	100.0	99.5	ADIV/06	70.5	46.8	32.1	21.5	15.3	11.0	7.5	6.1	ADIV/07	ADIV/08	ADIV/09	ADIV/10		
MEDIAN				ANUM/01	ANUM/02	ANUM/03	ANUM/04	4.1	ANUM/05	100.0	100.0	100.0	100.0	99.1	ANUM/06	72.4	45.0	31.2	20.1	12.3	8.6	6.3	5.0	ANUM/07	ANUM/08	ANUM/09	ANUM/10		
MAXIMUM (*)				0.0	0.0	0.0	6.1	0.0	0.0	100.0	100.0	100.0	100.0	100.0	0.0	86.4	61.6	50.1	39.5	30.8	23.6	18.8	14.9	0.0	0.0	0.0	0.0		
MINIMUM (*)				0.0	0.0	0.0	1.5	0.0	0.0	100.0	100.0	100.0	100.0	81.0	0.0	56.0	28.1	17.6	12.8	9.8	5.9	3.2	1.5	0.0	0.0	0.0	0.0		

Note: These are 100% limits.

Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

IP - In progress

- C1 Atterberg Limits (ASTM D4318)
- C2 Moisture Content (ASTM D2216)
- C3 Particle Size Distribution (ASTM D422)
- C4 Laboratory Compaction (ASTM D1557)
- C5 Specific Gravity (ASTM D854)

TABLE 4.2

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION

ZONE F RECORD TEST SUMMARY SHEET

H:\ENG\DATA\Bios\G:\Structure\Tailings Stage 3B Construction\K-ZF-1\Summary\Zone F Data Sheet

T3140

Knight Piesold CONSULTING										SHEET: 1 of 1																
PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION										PERIOD: August 6 to August 12, 2001																
MATERIAL: Zone F - Filter Sand										PROJECT NO.: 11162/14																
										AREA: TSF																
Sample No.	Date Sampled	Location	EL (m)	C1			C2 Field %	C3 %	C1 (Particle Size Distribution)														C4		C6 Specific Gravity	
				Atterberg Limits					101.6	75.2	38.1	25.4	19.0	12.7	9.525	4.75	2.36	1.18	0.6	0.3	0.149	0.075	0.002	Standard Proctor		
				PL	LL	PI			4	3	1.5	1	0.75	0.5	0.375	0.187	0.0937	0.0475	0.0236	0.0118	0.0059	0.0029				
				%	%	%			%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%		kg/m ³
R-ZF-3-1	19-Aug-00	26+10	935.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	88.6		51.8	34.5	23.2	15.5	10.4	6.1	3.1	-	-	-	-
R-ZF-3-2	20-Aug-00	17+00	932.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	26.6		50	35	24.5	16.7	11.9	7.1	4.2	-	-	-	-
R-ZF-3-3	21-Aug-00	20+00	933.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	50.1		46.6	31.8	21.7	14.9	10.1	6.4	3	-	-	-	-
R-ZF-3-4	23-Aug-00	20+00	933.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	85.2		53.7	35.8	15	16.1	10.6	6.8	3.3	-	-	-	-
R-ZF-3-5	24-Aug-00	25+50	935.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	81.6		42.1	27.3	17.8	14.6	8.2	5.2	3.1	-	-	-	-
R-ZF-3-6	25-Aug-00	19+00	935.0	-	-	-	-	-	100.0	100.0	100.0	95.1		82.4		47.8	32.2	21.3	14.7	10.1	6.8	3.7	-	-	-	-
R-ZF-3-7B	8-Sep-00	19+00	935.0	-	-	-	-	-	100.0	100.0	100.0	100.0		84.0		47.7	29.8	15.5	8.5	5.6	3.8	2.4	-	-	-	-
R-ZF-3-8	8-Sep-00	19+00	935.0	-	-	-	-	-	100.0	100.0	100.0	100.0											-	-	-	-
R-ZF-3-9	28-Aug-00	24+50	932.0	-	-	-	-	-	100.0	100.0	100.0	100.0		78.9		45.5	30.4	21.1	14.7	10.0	6.8	3.8	-	-	-	-
R-ZF-3-10	27-Aug-00	23+40	936.0	-	-	-	-	-	100.0	100.0	100.0	100.0		78.8		38.3	24.4	15.2	9.6	6.5	4.5	2.7	-	-	-	-
R-ZF-3-11	30-Aug-00	21+80	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		84.2		48.7	30.6	19.6	12.4	8.1	5.6	3.6	-	-	-	-
R-ZF-3-12	6-Sep-00	16+20	940.0	-	-	-	-	-	100.0	100.0	100.0	100.0		77.7		39.0	26.9	18.5	12.4	7.3	4.0	2.1	-	-	-	-
R-ZF-3-13	7-Sep-00	21+30	940.0	-	-	-	-	-	100.0	100.0	100.0	98.7		75.6		37.5	24.6	16.6	10.2	5.5	3.9	2.3	-	-	-	-
R-ZF-3-14	3-Sep-00	16+40	939.0	-	-	-	-	-	100.0	100.0	100.0	100.0		81.0		45.7	24.5	12.4	7.0	4.6	3.2	2.1	-	-	-	-
R-ZF-3-15	4-Sep-00	17+50	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		77.9		39.7	27.3	12.2	7.6	5.0	3.6	2.3	-	-	-	-
R-ZF-3-16	6-Sep-00	18+50	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		70.8		31.6	17.4	9.9	6.6	4.5	3.6	2.4	-	-	-	-
R-ZF-3-17	10-Sep-00	21+40	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		84.1		46.6	30.4	20.1	13.9	9.0	6.0	3.4	-	-	-	-
R-ZF-3-18	10-Sep-00	22+20	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		80.1		45.3	27.7	19.8	13.8	9.3	5.4	2.4	-	-	-	-
R-ZF-3-19	11-Sep-00	25+50	938.0	-	-	-	-	-	100.0	100.0	100.0	100.0		78.4		44.6	32.4	22.0	13.4	9.3	6.4	3.7	-	-	-	-
R-ZF-3-20	11-Sep-00	22+80	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		80.7		43.6	27.6	15.5	7.8	4.6	3.2	2.2	-	-	-	-
R-ZF-3-21	12-Sep-00	22+00	939.0	-	-	-	-	-	100.0	100.0	100.0	100.0		87.5		51.5	34.2	22.4	14.1	8.7	4.5	2.4	-	-	-	-
R-ZF-3-22	15-Sep-00	19+00	939.0	-	-	-	-	-	100.0	100.0	100.0	100.0		82.3		53.7	37.0	25.5	17.8	11.5	7.1	3.3	-	-	-	-
R-ZF-3-23	16-Sep-00	17+60	939.0	-	-	-	-	-	100.0	100.0	100.0	100.0		85.6		49.7	33.9	23.4	15.8	9.9	5.4	2.7	-	-	-	-
R-ZF-3-24	19-Sep-00	26+20	941.0	-	-	-	-	-	100.0	100.0	100.0	100.0		88.7		48.3	31.9	21.5	14.8	9.2	5.1	2.3	-	-	-	-
R-ZF-3-25	20-Sep-00	20+60	941.0	-	-	-	-	-	100.0	100.0	100.0	100.0		89.1		54.3	36.4	24.3	16.2	9.4	4.7	1.7	-	-	-	-
R-ZF-3-26	21-Sep-00	21+20	941.0	-	-	-	-	-	100.0	100.0	100.0	100.0		84.4		48.1	30.3	21.7	20.1	14.5	9.3	4.8	-	-	-	-

TABLE 4.2

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION

ZONE F RECORD TEST SUMMARY SHEET

H:\ENG\DATA\EngDocs\Geotechnical\Zone F Stage 3B Construction\Tailings\RF-ZF-1000-1\2 Data Sheet

11/1/01

Knight Piesold CONSULTING										SHEET: 1 of 1																	
PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION										PERIOD: August 6 to August 12, 2001																	
MATERIAL: Zone F - Filter Sand										PROJECT NO.: 11162/14																	
										AREA: TSF																	
Sample No	Date Sampled	Location	BL (m)	C1			C2	L1	C3 (Particle Size Distribution)														C4		C6		
				Atterberg Limits					F ₄₂₅ m/c	101.6	75.2	35.1	25.4	19.05	12.7	9.525	4.75	2.36	1.18	0.6	0.3	0.14925	0.07466	0.002		Standard Proctor	
				PL	LL	PI				4	3	1 1/2	1	3/4	1/2	3/4	#4	#3	#10	#30	#50	#100	#200	Clay		Max Dry Density kg/m ³	Optimum m/c
				%	%	%				%	%	%	%	%	%	%	%	%	%	%	%	%	%	%		%	%
R-ZF-3-27	11-Sep-00	22+00	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		80.7		43.5	29.0	19.4	13.0	8.9	5.0	2.3	-	-	-	-	
R-ZF-34	28-Mar-01	29+00, 0.5 m D/S of Zone S	941.8	-	-	-	4.0	-	100.0	100.0	100.0	100.0	97.5		71.5	49.1	33.9	25.8	19.7	15.0	11.6	9.1	-	-	-	-	
R-ZF-32	28-May-01	37+00, 0.5 m D/S of Zone S	936.0	-	-	-	4.1	-	100.0	100.0	100.0	100.0	96.7		68.4	44.0	31.9	22.5	16.9	12.8	9.9	7.7	-	-	-	-	
R-ZF-33	17-Jun-01	42+00, 0.8 m D/S of Zone S	936.0	-	-	-	7.0	-	100.0	100.0	100.0	100.0	97.9		68.8	44.7	26.8	17.8	13.2	10.6	8.5	6.9	-	-	-	-	
R-ZF-34	20-Jun-01	35+00, 0.8 m D/S of Zone S	935.0	-	-	-	3.6	-	100.0	100.0	100.0	100.0	99.2		61.5	37.8	27.0	18.7	14.0	11.0	8.6	6.8	-	-	-	-	
R-ZF-35	20-Jun-01	43+00, 0.8 m D/S of Zone S	937.0	-	-	-	6.5	-	100.0	100.0	100.0	100.0	99.4		70.8	46.6	32.6	23.0	17.3	13.7	10.6	8.5	-	-	-	-	
R-ZF-36	10-Jul-01	33+00, 0.8 m D/S of Zone S	939.0	-	-	-	4.5	-	100.0	100.0	100.0	100.0	99.5		72.6	50.4	36.5	24.8	17.6	12.4	9.2	7.0	-	-	-	-	
R-ZF-37	10-Jul-01	45+00, 0.8 m D/S of Zone S	937.0	-	-	-	4.5	-	100.0	100.0	100.0	100.0	92.6		65.6	41.3	26.8	21.4	16.9	13.5	9.4	6.4	-	-	-	-	
R-ZF-38	19-Jul-01	35+00, 1.0 m D/S of Zone S	935.0	-	-	-	8.4	-	100.0	100.0	100.0	100.0	99.4		73.8	50.6	35.5	26.1	19.7	15.7	12.0	9.6	-	-	-	-	
R-ZF-39	26-Jul-01	43+00, 1.0 m D/S of Zone S	941.0	-	-	-	2.3	-	100.0	100.0	100.0	100.0	94.9		57.6	36.2	26.0	17.7	12.6	10.4	9.3	5.7	-	-	-	-	
R-ZF-40	28-Jul-01	33+00, 1.0 m D/S of Zone S	941.0	-	-	-	6.3	-	100.0	100.0	100.0	100.0	100.0		73.2	44.8	31.7	22.0	15.1	10.4	7.5	2.7	-	-	-	-	
R-ZF-41	5-Aug-01	33+25, 1.0 m D/S of Zone S	940.0	-	-	-	4.3	-	100.0	100.0	100.0	100.0	92.7		69.8	48.4	36.0	24.6	24.4	19.5	15.6	12.6	-	-	-	-	
R-ZF-41B	9-Aug-01	Test	-	-	-	-	3.2	-	100.0	100.0	100.0	100.0	97.5	83.3	69.0	47.6	32.7	23.8	18.9	15.6	13.0	10.6	-	-	-	-	
MEAN				ADIV/01	ADIV/02	ADIV/03	4.5	ADIV/04		100.0	100.0	100.0	100.0	98.4	83.3	68.5	45.1	32.3	22.9	17.2	13.4	10.4	7.8	ADIV/05	ADIV/06	ADIV/07	ADIV/08
MEDIAN				ANUM/01	ANUM/02	ANUM/03	4.4	ANUM/04		100.0	100.0	100.0	100.0	99.0	83.3	69.4	45.7	32.3	22.5	17.1	13.2	9.7	7.4	ANUM/05	ANUM/06	ANUM/07	ANUM/08
MAXIMUM (%)				0.0	0.0	0.0	8.4	0.0		100.0	100.0	100.0	100.0	100.0	83.3	73.8	50.6	38.9	30.6	24.4	19.5	15.6	12.6	0.0	0.0	0.0	0.0
MINIMUM (%)				0.0	0.0	0.0	2.3	0.0		100.0	100.0	100.0	100.0	94.9	83.3	57.6	36.2	26.0	17.7	12.6	10.4	7.5	2.7	0.0	0.0	0.0	0.0

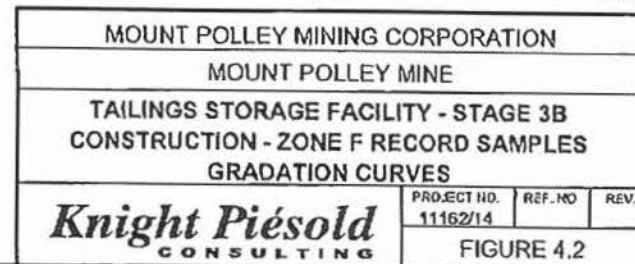
Note: These are 100% limits.

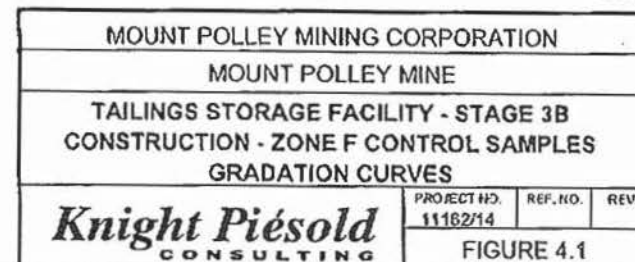
Values with strikethrough indicate that re-testing was successful. These samples will be strikethrough from the record in the following report.

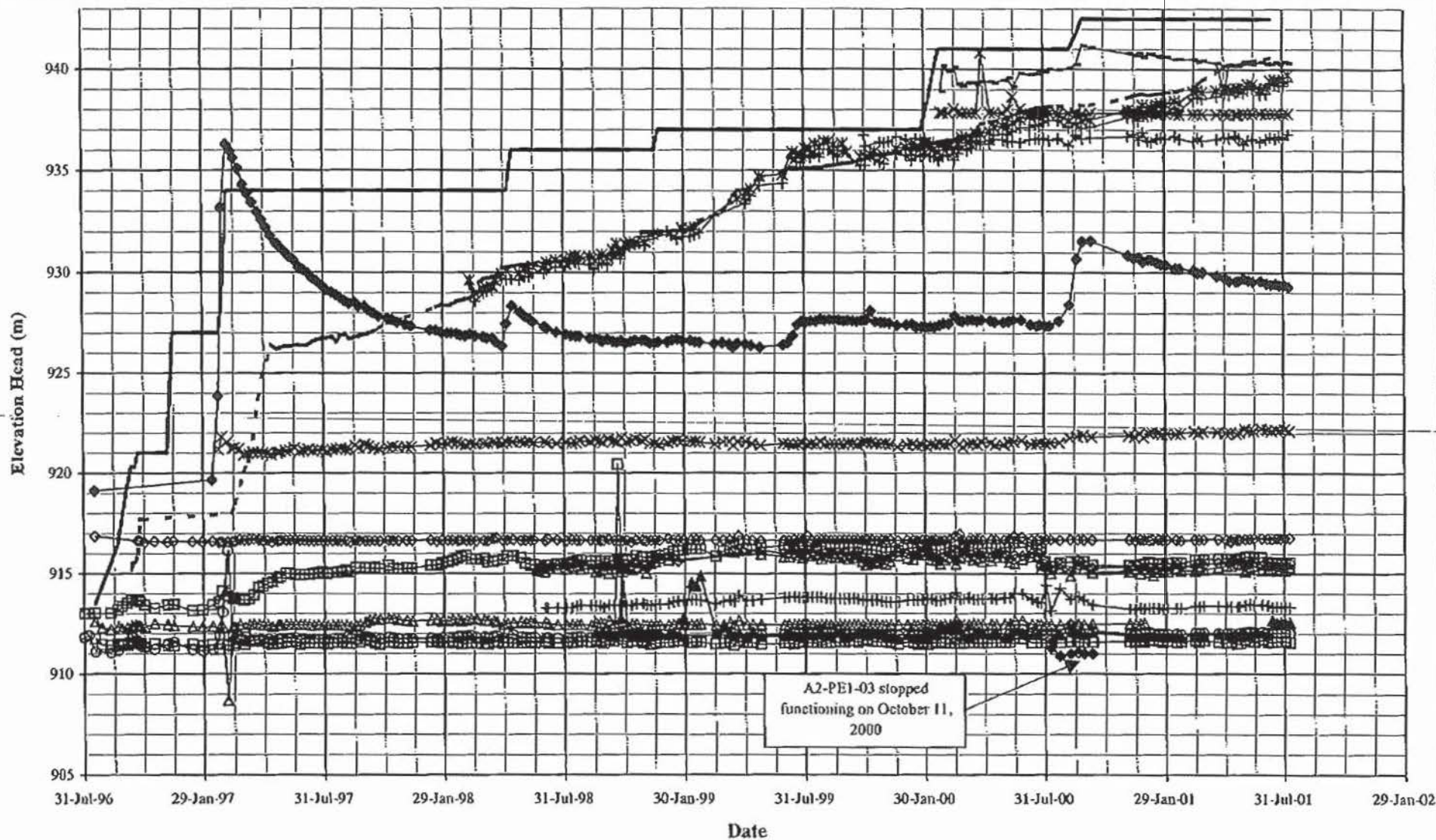
IP - In progress

Collection of Stage 3A data in progress, samples R-ZF-8, 28, 29 and 30 are outstanding

- R1 Atterberg Limits (ASTM D4318)
- R2 Moisture Content (ASTM D2216)
- R3 Particle Size Distribution (ASTM D422)
- R4 Laboratory Compaction (ASTM D1557)
- R6 Specific Gravity (ASTM D854)







- - - Pond Level	— Fill Elevation	*— A0-PE2-01	+— A0-PE2-02
—△— A1-PE1-01	—□— A1-PE1-02	—◇— A1-PE1-03	—▲— A2-PE1-01
—■— A2-PE2-01	—○— A2-PE2-02	—◆— A2-PE2-03	—×— A2-PE2-05
—△— A2-PE2-06	—◇— A2-PE2-07	—+— A2-PE2-08	—+— A1-PE1-04
— A2-PE1-02	—×— A0-PE1-01	—◆— A2-PE1-03	

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

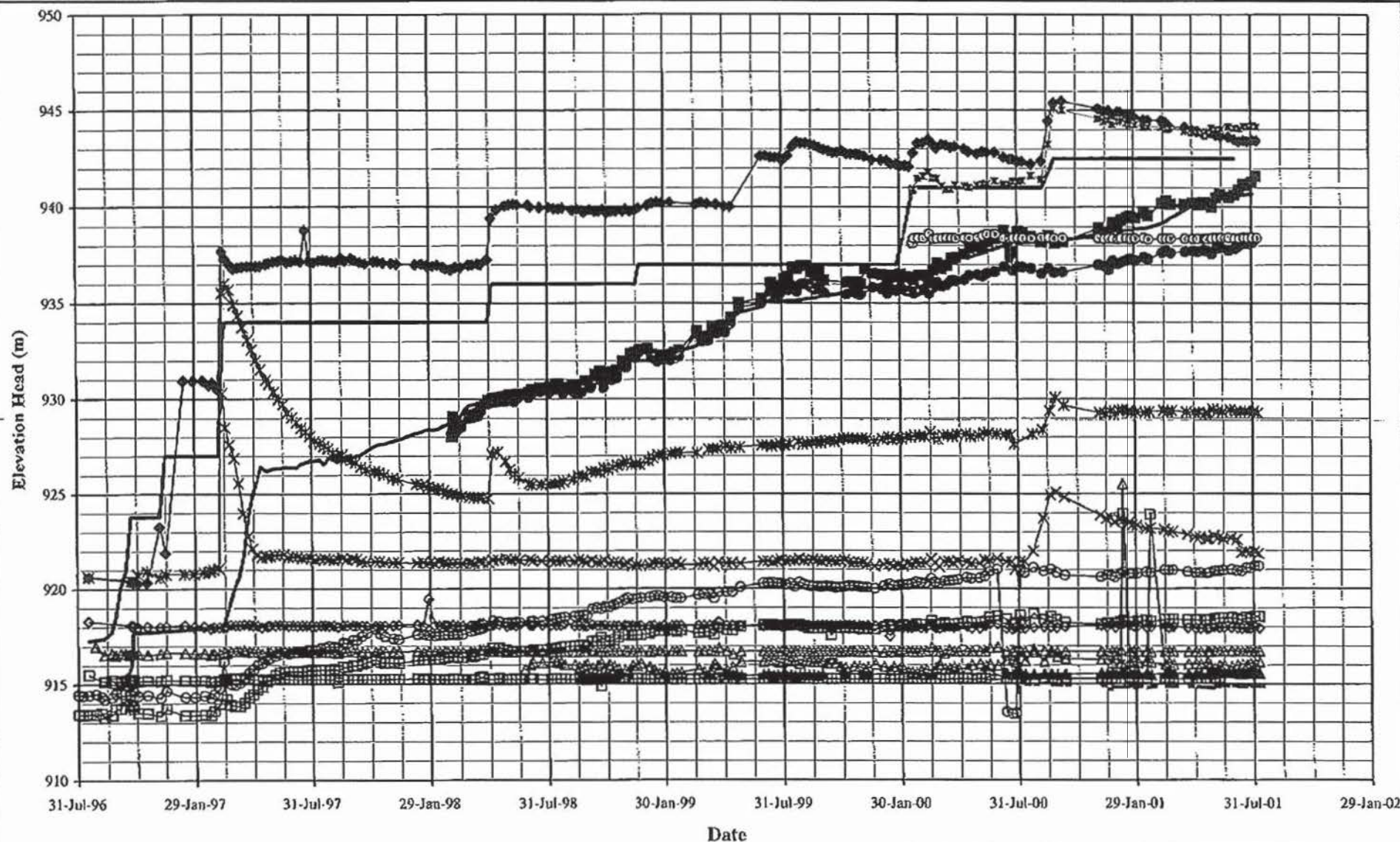
TAILINGS STORAGE FACILITY

PLANE A PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

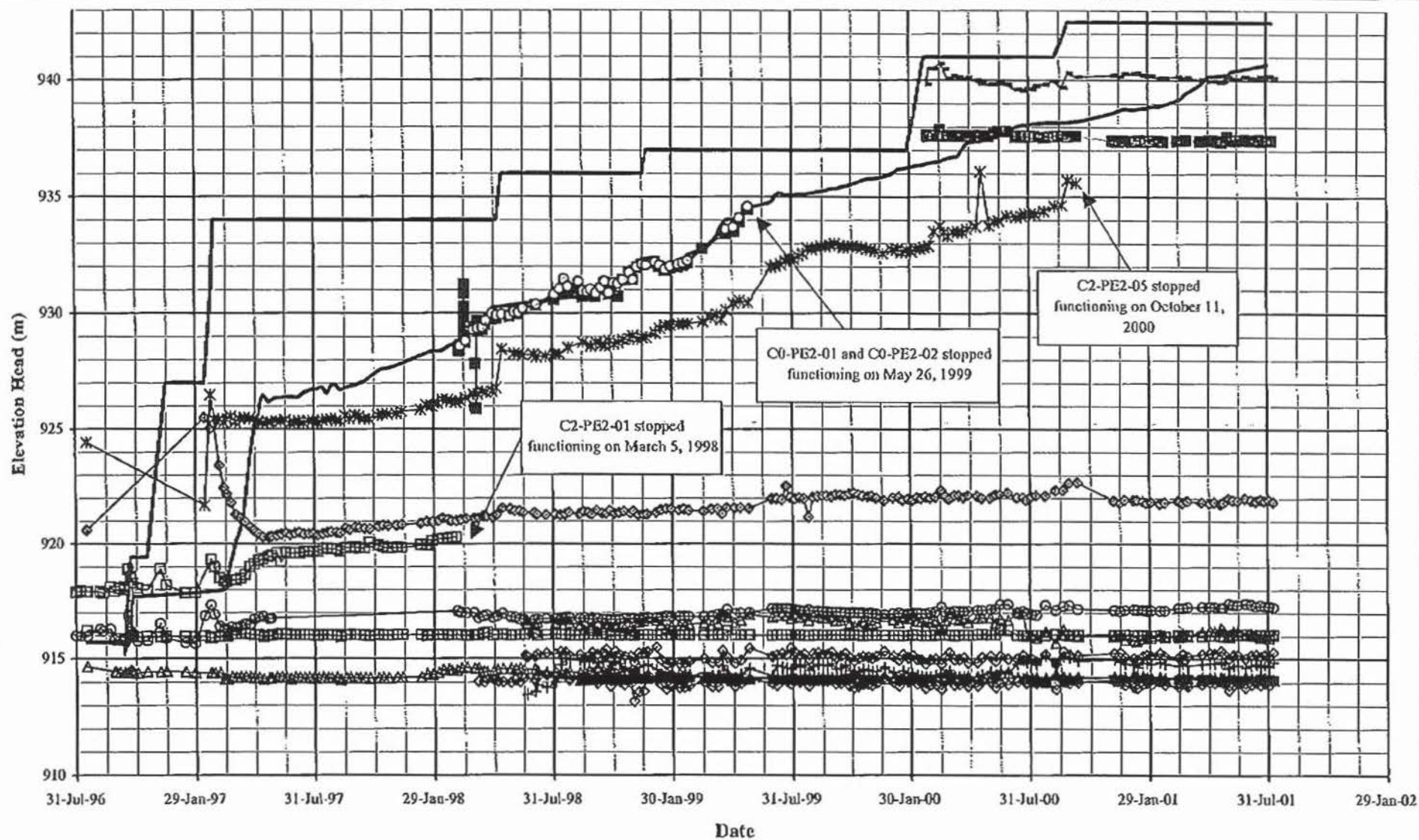
Knight Piésold
CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		
FIGURE 5.1		



- | | | | | |
|--------------|------------------|-------------|-------------|-------------|
| — Pond Level | — Fill Elevation | ■ B0-PE2-01 | ● B0-PE2-02 | ▲ B1-PE2-01 |
| □ B1-PE1-01 | ◇ B1-PE1-03 | ▲ B2-PE1-01 | □ B2-PE2-01 | ○ B2-PE2-02 |
| ◆ B2-PE2-03 | * B2-PE2-04 | × B2-PE2-05 | △ B2-PE2-06 | ○ B0-PE1-01 |
| ✱ B2-PE1-02 | - B2-PE1-03 | | | |

MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY		
PLANE B PIEZOMETERS		
GRAPH OF ELEVATION HEAD vs. TIME		
Knight Piésold		PROJECT NO. 11162/14
CONSULTING		REF. NO. REV.
FIGURE 5.2		



— Pond Level	— Fill Elevation	■ C0-PE2-01	○ C0-PE2-02	△ C1-PE1-01
□ C1-PE1-02	◇ C1-PE1-04	▲ C2-PE1-01	▣ C2-PE2-01	○ C2-PE2-02
◇ C2-PE2-03	* C2-PE2-05	△ C2-PE2-06	◇ C2-PE2-07	+ C2-PE2-08
■ C0-PE1-01	— C2-PE1-02	- C2-PE1-03		

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

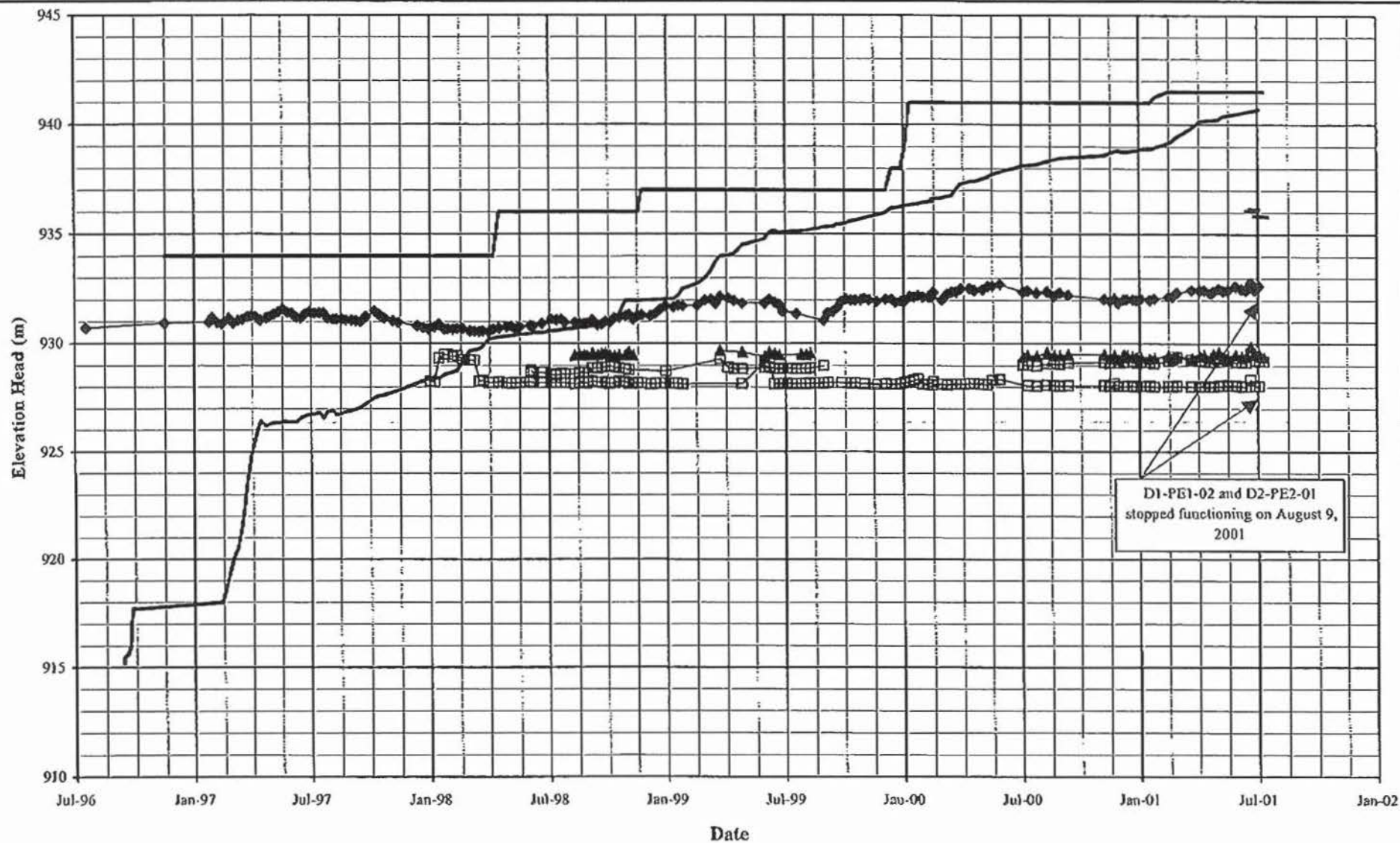
PLANE C PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold
CONSULTING

PROJECT NO. 11162/14	REF. NO.	REV.
-------------------------	----------	------

FIGURE 5.3



— Pond Level — Fill Elevation □ D1-PE1-02 ▲ D2-PE1-01
 ◆ D2-PE2-01 □ D2-PE2-02 - D1-PE1-03

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

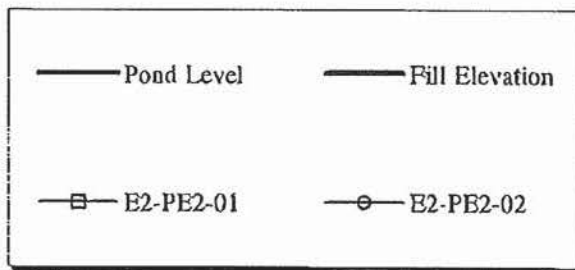
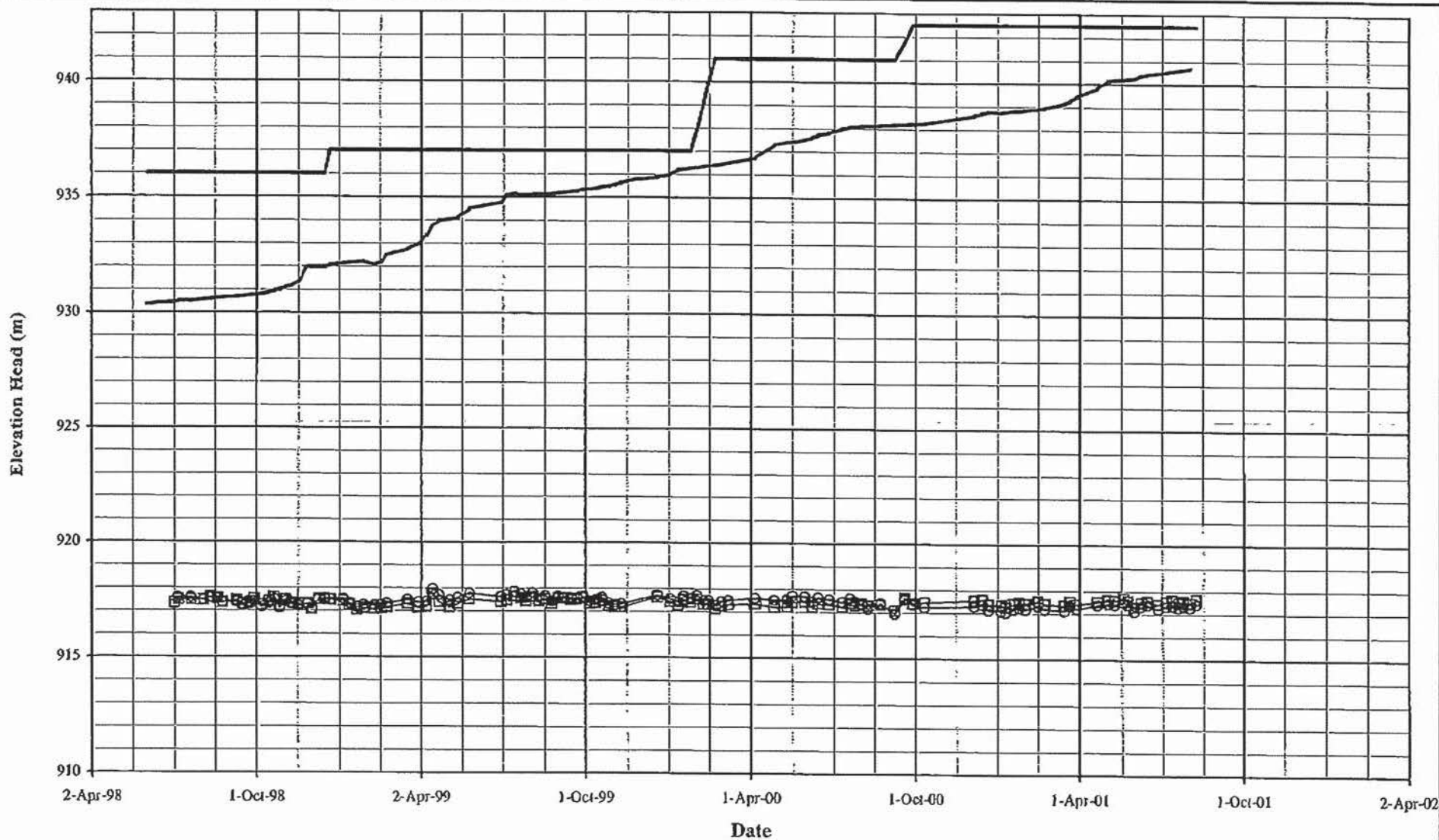
PLANE D PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

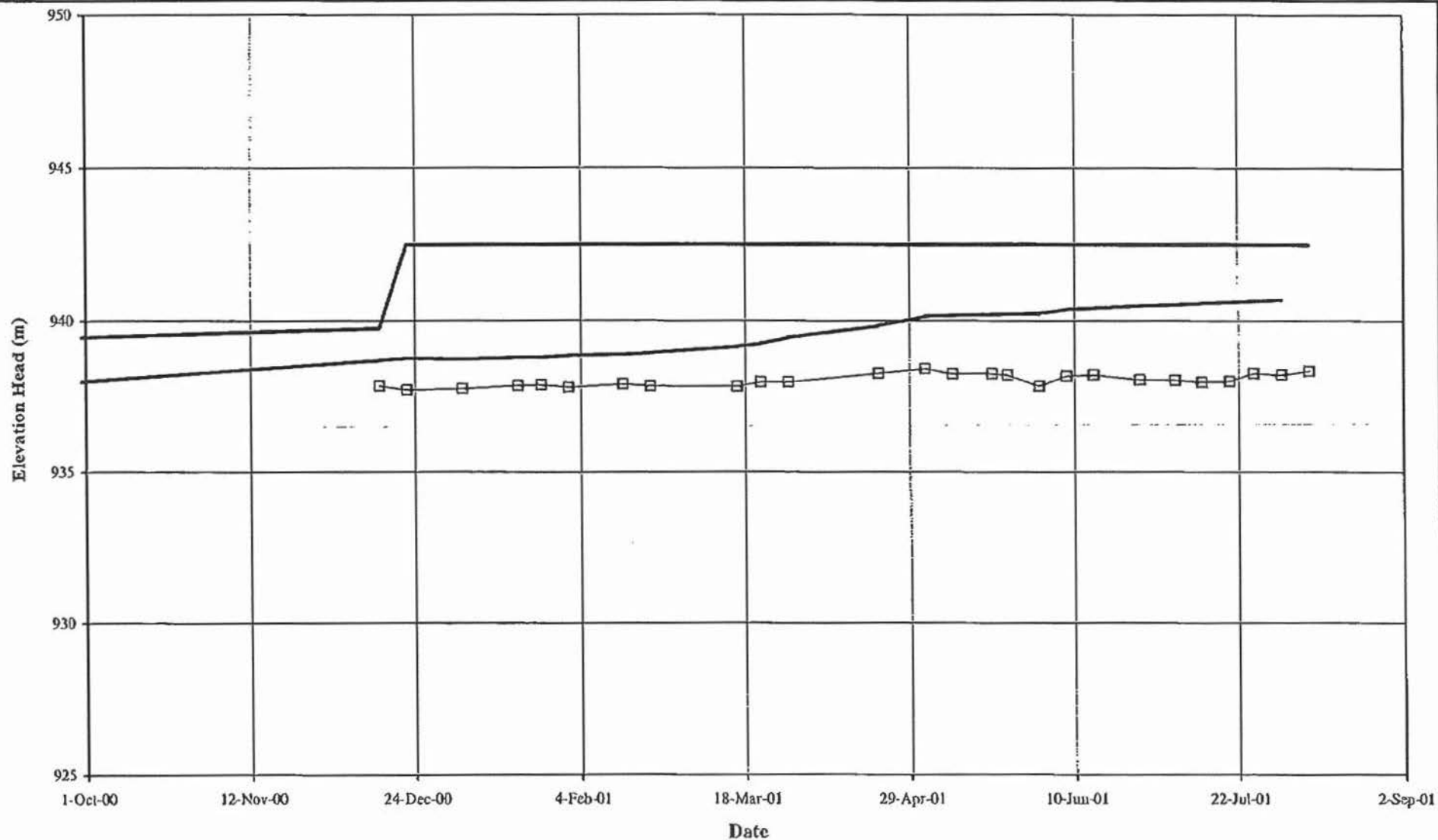
Knight Piésold
CONSULTING

PROJECT NO. 11162/14	REF. NO.	REV.
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FIGURE 5.4



MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY		
PLANE E PIEZOMETERS		
GRAPH OF ELEVATION HEAD vs. TIME		
Knight Piésold CONSULTING	PROJECT NO. 11162/14	REF. NO. REV.
	FIGURE 5.5	



— Pond Level

— Fill Elevation

—□— F2-PB2-01

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

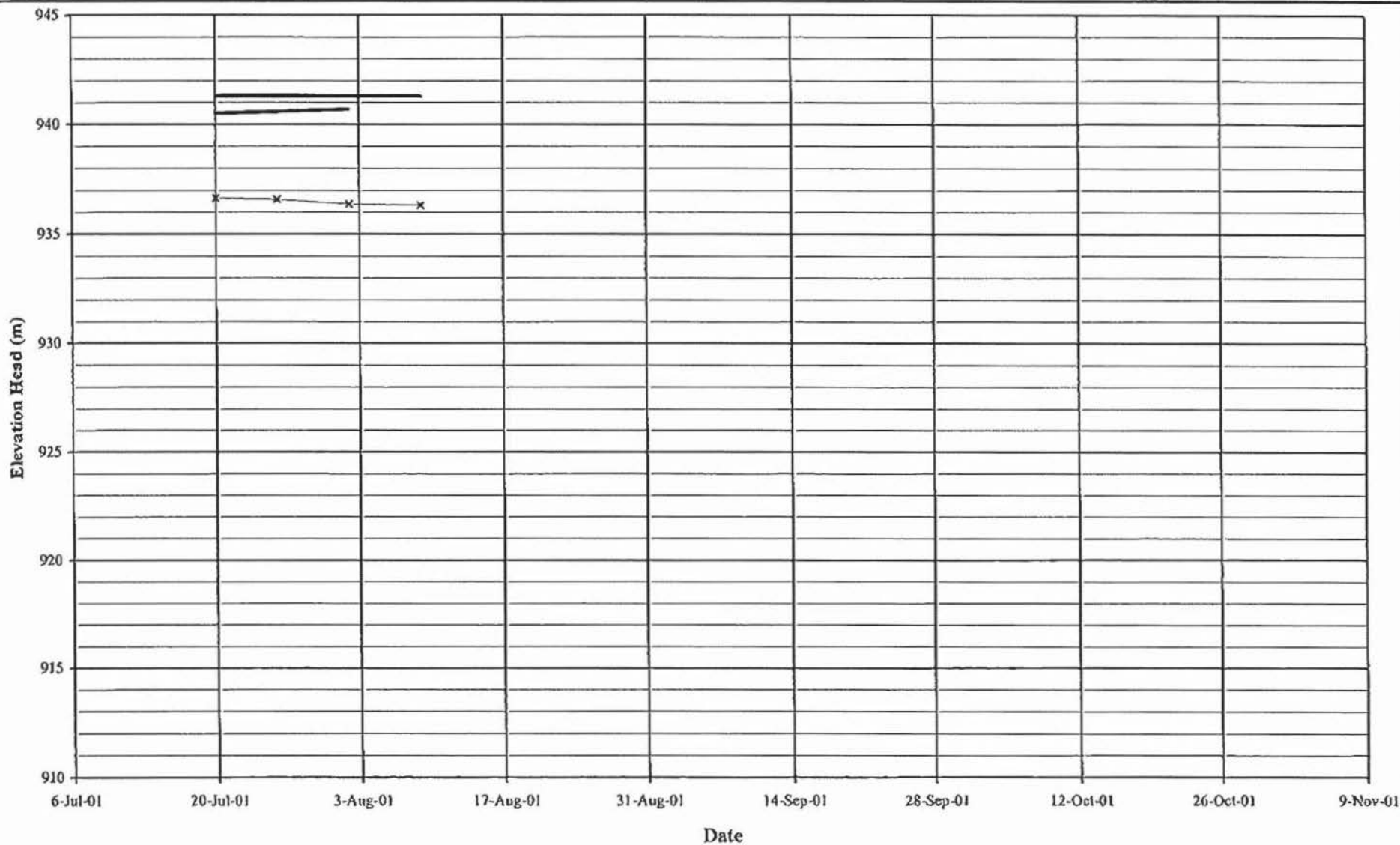
PLANE F PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold
 CONSULTING

PROJECT NO. 11162/14	REF. NO.	REV.
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FIGURE 5.6



— Pond Level

— Fill Elevation

—x— G1-PE1-01

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

PLANE G PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

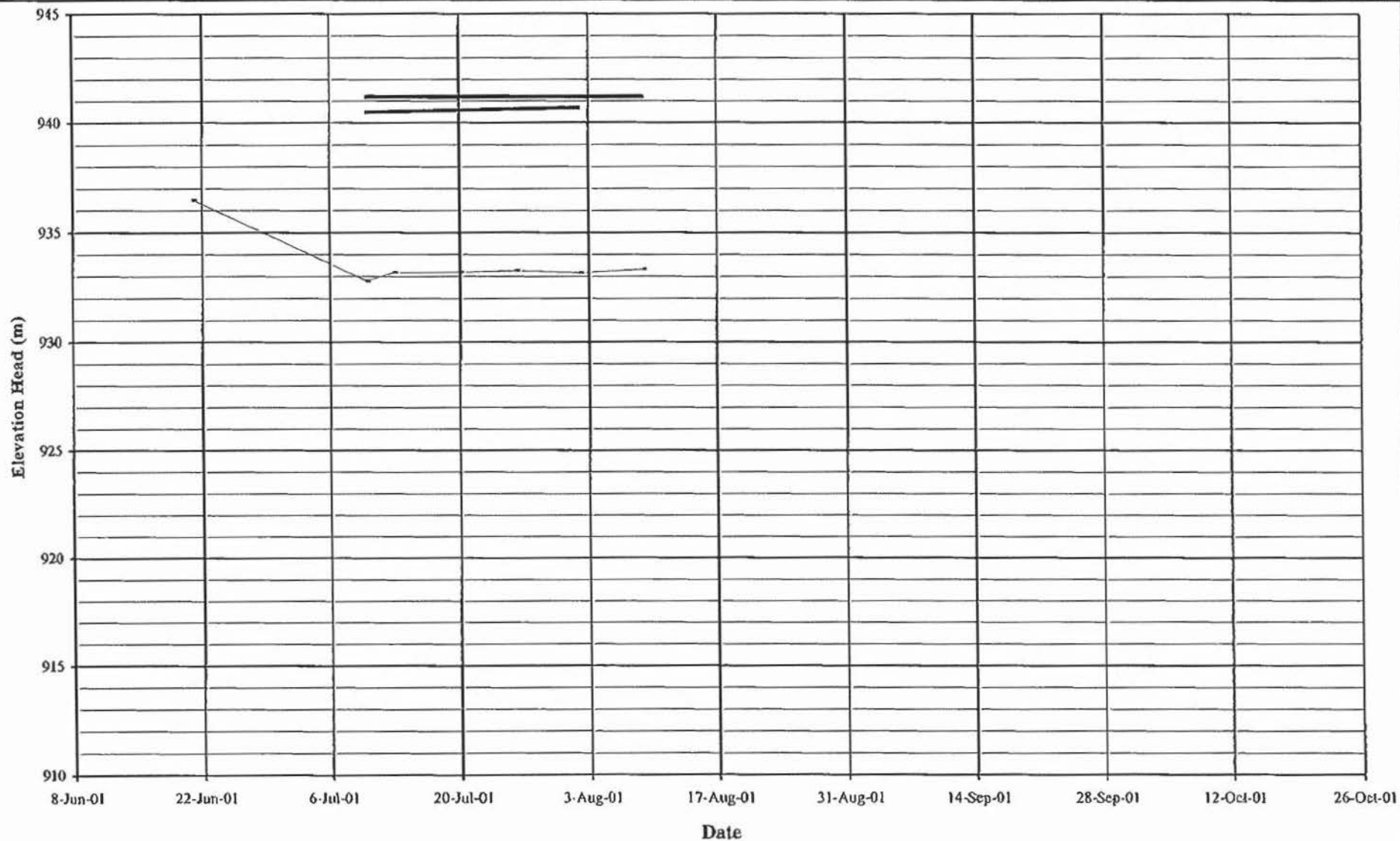
Knight Piesold
CONSULTING

PROJECT NO.
11162/14

REF. NO.

REV.

FIGURE 5.7



— Pond Level — Fill Elevation - - - H1-PE1-01

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

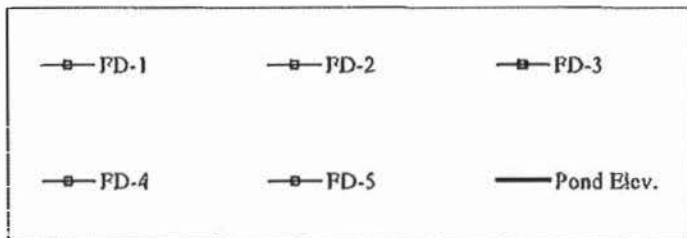
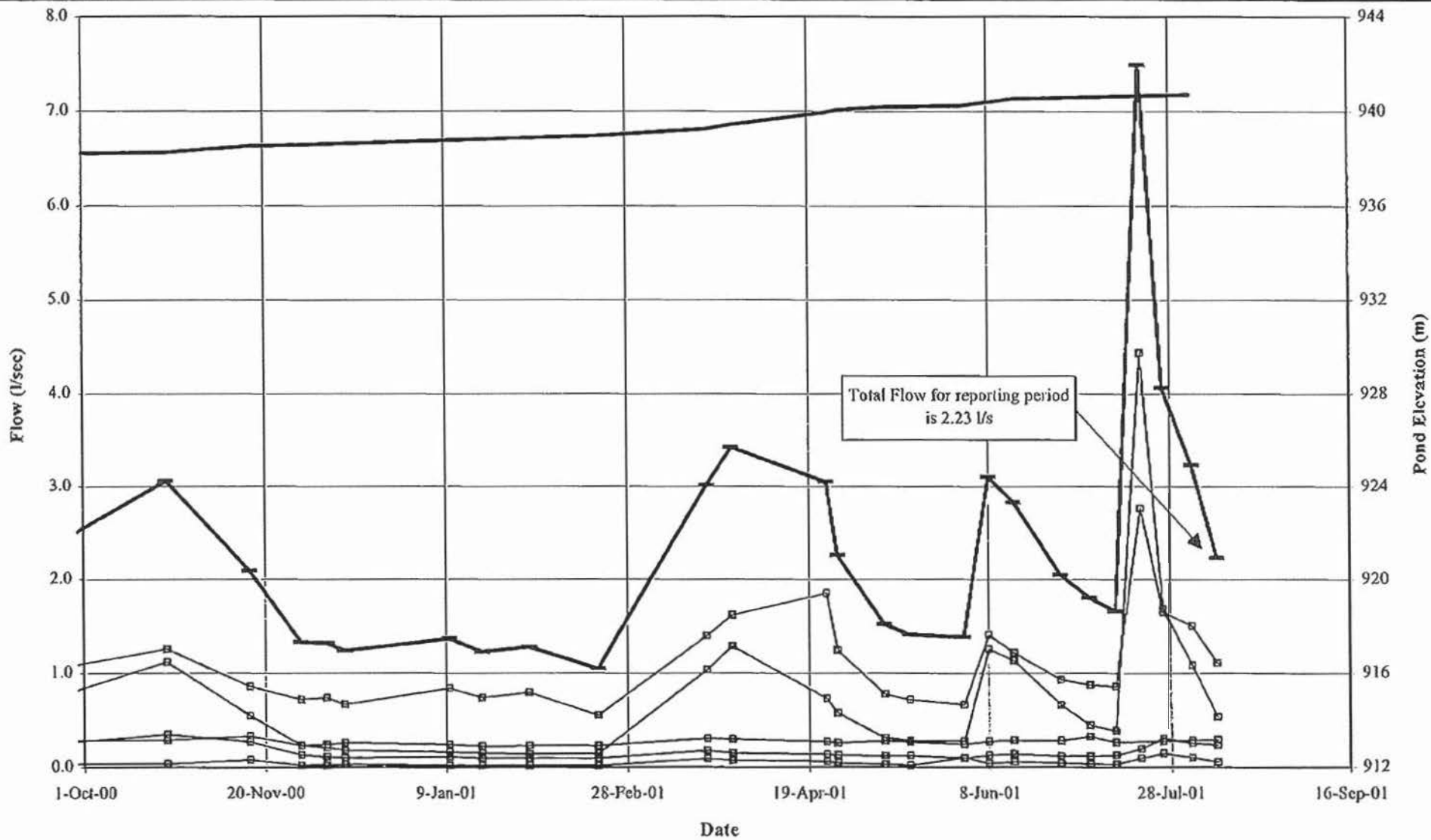
PLANE H PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

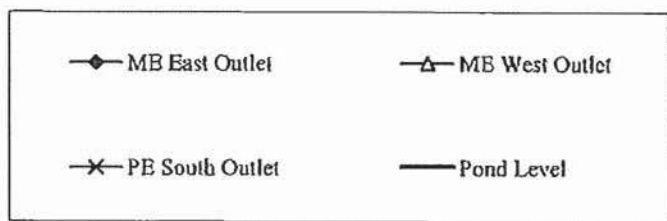
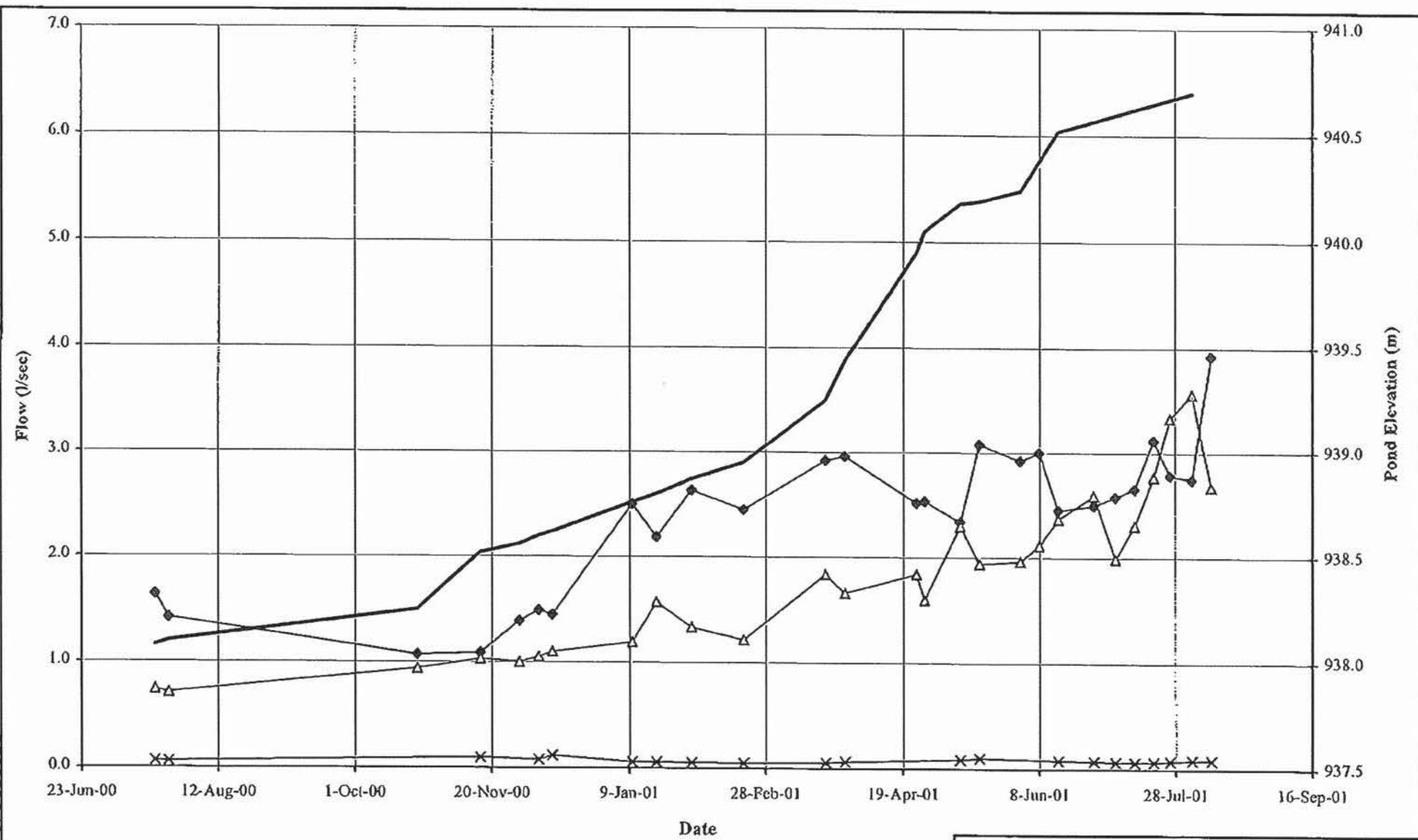
Knight Piésold
CONSULTING

PROJECT NO. 11162/14	REF. NO.	REV.
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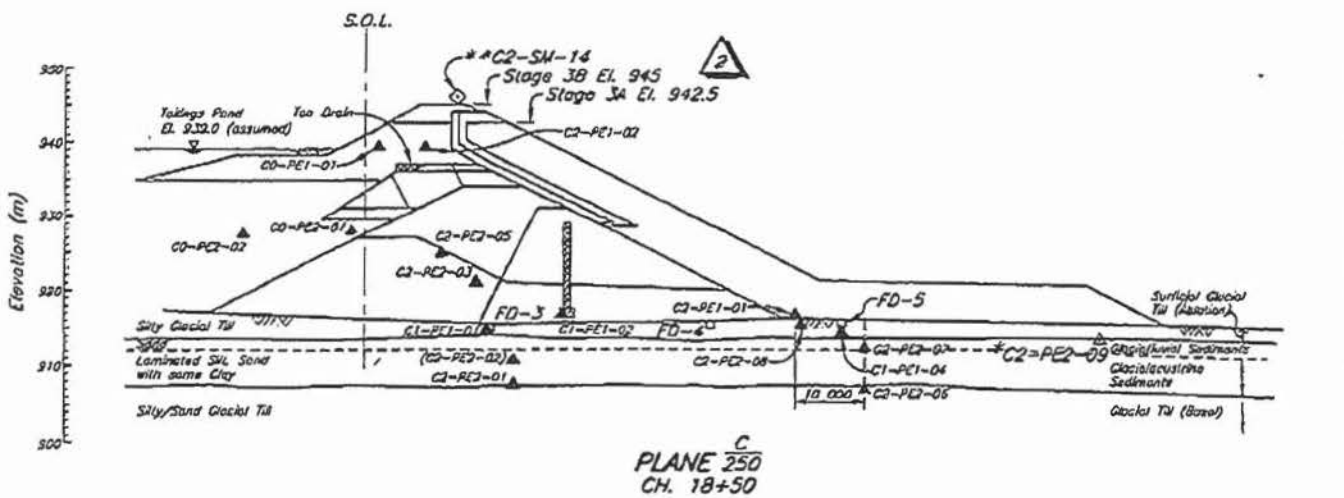
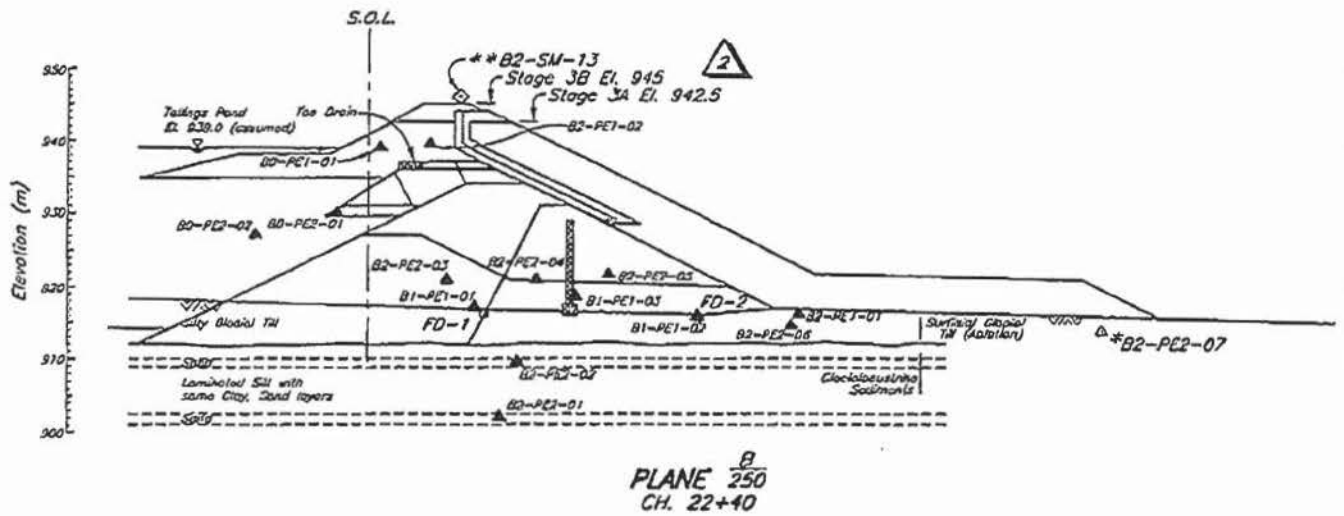
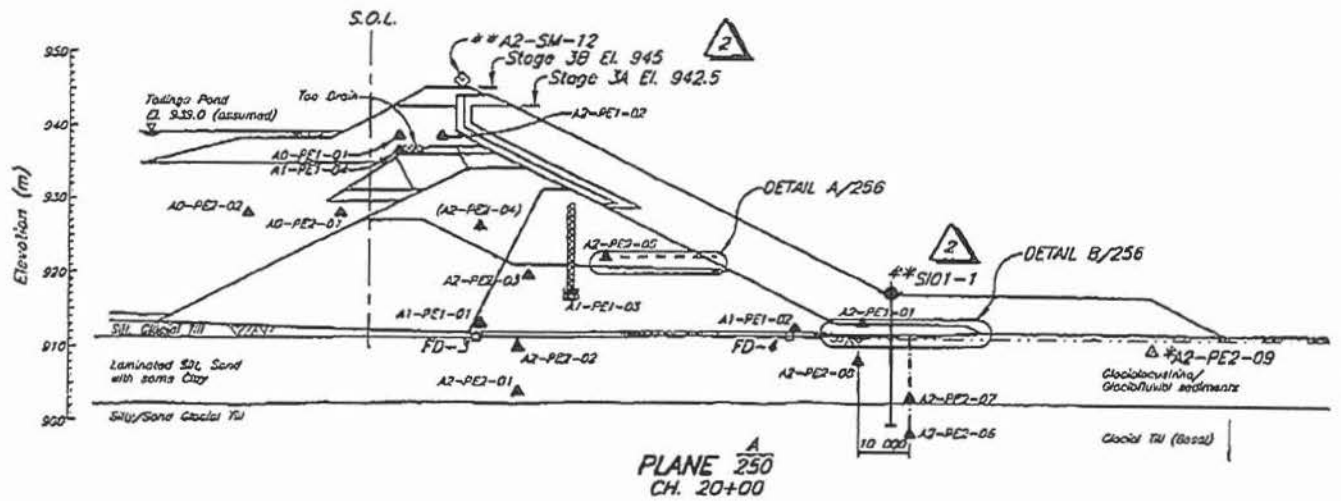
FIGURE 5.8



MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY		
MAIN EMBANKMENT		
FOUNDATION DRAIN FLOWS		
Knight Piésold CONSULTING	PROJECT NO. 11182/14	REV.
	FIGURE 5.9	



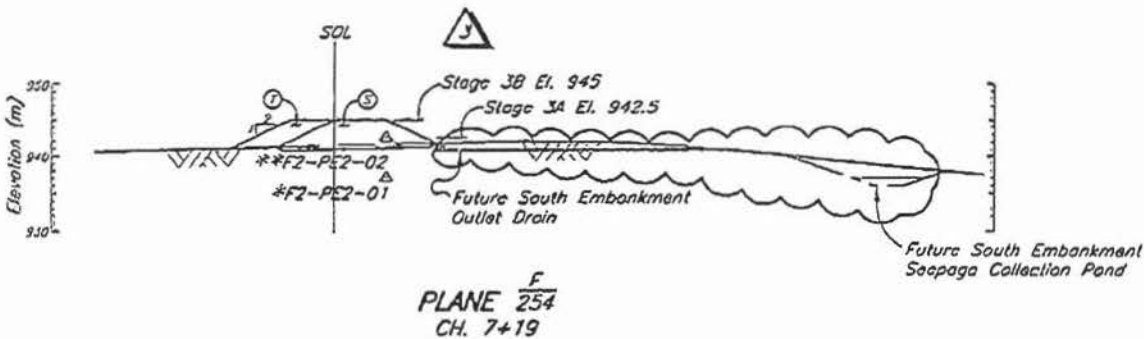
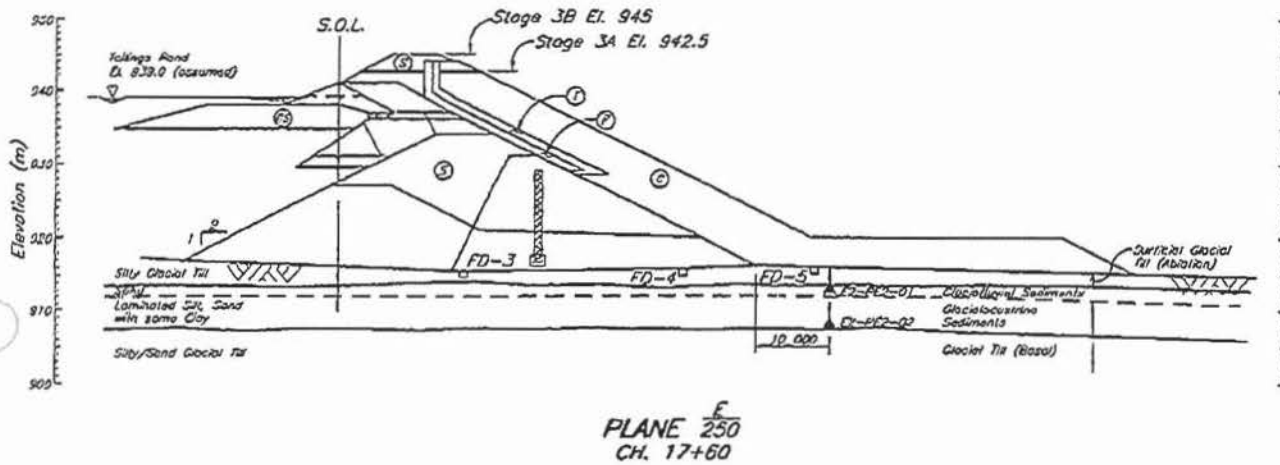
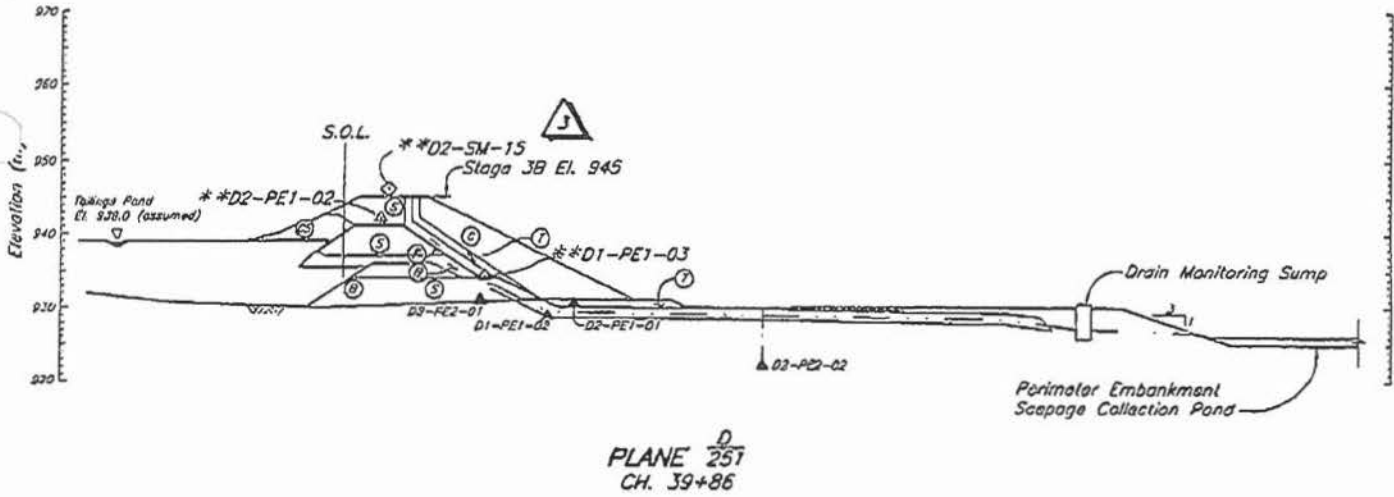
MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY UPSTREAM TOE DRAIN FLOWS		
Knight Piésold CONSULTING	PROJECT NO. 11162/14	REF. NO. REV.
	FIGURE 5.10	



STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SECTIONS 2 OF 2
STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SUMMARY OF INSTALLATION & TYP. DETAILS
STAGE 3 MAIN EMBANKMENT - INSTRUMENTATION - PLAN

DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APPR'D	REV.	DATE
REFERENCE DRAWINGS			REVISIONS						

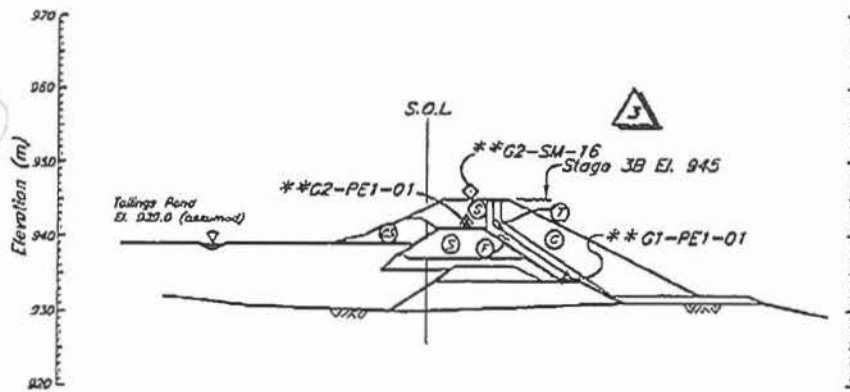
2 08MAY'01 ISSUED
1 26JAN'01 STAGE 3
0 2JUN'00 ISSUED



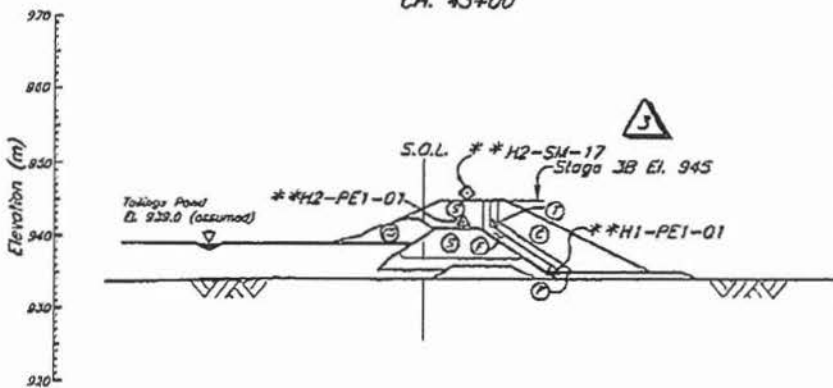
STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION SUMMARY OF INSTALLATION & TYPICAL DETAILS
STAGE 3 TAILINGS EMBANKMENT - SOUTH EMBANKMENT - INSTRUMENTATION PLAN
STAGE 3 PERIMETER EMBANKMENT - INSTRUMENTATION PLAN
STAGE 3 TAILINGS EMBANKMENT - MAIN EMBANKMENT - INSTRUMENTATION PLAN

3	08MAY'01	ISSUED FO
2	26JAN'01	STAGE 3B
1	20OCT'00	PERIMETER
0	2JUN'00	ISSUED FO

DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D	REV.	DATE
REFERENCE DRAWINGS			REVISIONS						



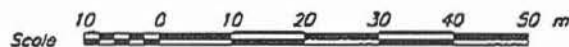
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CH. 43+00



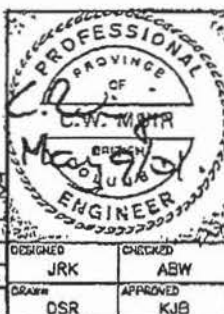
PLANE $\frac{H}{251}$
CH. 36+00

NOTE

1. See Drg. No. 11162-13-256 for Summary of Instrumentation Installations, Typical Details, General Notes and Legend.
2. Instrumentation with one asterisk indicates placement during Stage 3A construction. Instrumentation with 2 asterisks indicate placement during Stage 3B construction.



STAGE 3B TENDER	CWM	OSR	JKR	PJ
IS - CREST ELEVATION 945	JRK	AW	JMTW	KJB
EMERGENCY SECTIONS ADDED	JRK	NSD	JMTW	KJB
FOR CONSTRUCTION	JRK	TAM	AW	KJB
DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED
REVISIONS				



MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY STAGE 3 TAILINGS EMBANKMENT INSTRUMENTATION SECTIONS - SHEET 2 OF 2		
<i>Knight Piésold</i> CONSULTING	SCALE	AS SHOWN
	DRAWING NO.	REVISION
	11162-13-259	3

→ G.H. #14745-40/MTPI/16

Knight Piesold
CONSULTING

Knight Piesold Ltd. Tel: +1 (604) 685-0543
 1400 - 750 West Pender St Fax: +1 (604) 685-0147
 Vancouver, BC V6C 2T8 Fax: +1 (604) 687-2203
 CANADA www.knightpiesold.com

DATE: September 12, 2001 FILE NO.: 11162/14
 TIME: REF NO.: 1/3321
 OPERATOR: DM PAGES: 1 of 26
 SENDER: DM APPROVED: 

TO: Ministry of Energy and Mines FAX: 250-952-0481
 ATTN: Chris Carr
 CC: Ken Brouwer, KP Vancouver
 Don Parsons / Eric LeNeve, MPMC Site
 SUBJECT: Final Progress Report No. 19, Rev. 1

Dear Mr. Carr,

Please find attached a copy of Progress Report #19 from August 13 to 24, 2001. If you have any questions, please do not hesitate to contact me, Wilson Muir or Ken Brouwer in our Vancouver office.

Regards,


 Denny Ma
 Staff Engineer
 Knight Piesold Consulting

MP00022

Construction
 Monitoring Reports
 for TMF

September 1, 2000 to
 September 12, 2001

~~missing reports 5+6~~

The content of this communication is confidential. If you are not the intended recipient, please notify us immediately. Unauthorized use or disclosure of this communication or its content is unlawful.

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CONSULTING**MOUNT POLLEY MINING CORPORATION**
MOUNT POLLEY MINE**TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION**
PROGRESS REPORT NO. 19 - AUGUST 13 TO AUGUST 24, 2001**SECTION 1.0 - GENERAL**

Mount Polley Mining Corporation (MPMC) completed Stage 3B construction activities. Knight Piesold Ltd. (KP) carried out QA/QC activities during the reporting period.

The scope of work includes placement of Zones S, F and T to El. 942.5 m on the Perimeter Embankment (Ch. 28+00 to 44+50). Zone S was completed up to El. 942.5 m on August 19, 2001. MPMC carried out the majority of this work. Material haulage only was completed by sub-contractors.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- Wilson Muir, Resident Engineer (left site August 17, 2001).
- Denny Ma, KP Staff Engineer (arrived on site August 16, 2001)

The following MPMC personnel were on site during the reporting period:

- Don Parsons Mine Superintendent
- Eric LeNeve Tailings Coordinator
- Charlie O'Hara General Foreman
- Don Jameson Site Foreman
- Ron Gale Site Foreman

1.2 CONTRACT DEVELOPMENTS

No new contract developments took place over the reporting period.

1.3 DESIGN DEVELOPMENTS

No new design developments occurred during the reporting period.

1.3 WEATHER

Conditions were warm and sunny with clouds and showers towards the end of the week. Maximum daytime highs reached about +28 °C and nightly lows sinking to as low as +8 °C.

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CONSULTING**1.4 SAFETY**

No new safety incidents occurred over the reporting period.

SECTION 2.0 - TAILINGS FACILITY OPERATION AND MAINTENANCE

Tailings were spigotted along the Main Embankment crest during the reporting period at approximate Chainage 19+00 to obtain a well developed, even beach in this area. The Tailings Pond remains a significant distance from the Perimeter Embankment.

SECTION 3.0 - CONSTRUCTION ACTIVITIES**3.1 EQUIPMENT**

MPMC used the following equipment over the reporting period:

- Excavators: 1 Hitachi EX 270, 1 Hitachi EX 400
- Haul Trucks: 1 Caterpillar 777 85T
- Loaders: 1 Caterpillar 992B
- Dozers: 1 Caterpillar D6, 1 Caterpillar D8K, 1 Caterpillar D7G
- Compactors: 1 Caterpillar CS 563 10T vibratory smooth drum
- Graders: 1 Caterpillar 14G
- Service, water and fuel trucks
- Lake Excavating: 6 dump trucks and 1 Caterpillar 966 loader

MPMC carried out the following activities during the reporting period:

- Placement of Zone F, Perimeter Embankment: Ch. 37+50 to 40+00, El. 934.0 to 942.5 m.
- Placement of Zone S, Perimeter Embankment: Ch. 36+50 to 39+25, El. 941.3 to 942.5 m and Ch. 39+25 to 44+50, El. 942.0 to 942.5 m.
- Placement of Zone T, Perimeter Embankment: Ch. 36+25 to 39+00, El. 934.0 to 942.5 m.

Zone S, from Chainage 37+75 to 38+88, was placed and compacted to specification but haul trucks formed ruts in this area after placement. It will be graded and recompacted at MPMC's earliest convenience.

MPMC also wishes to leave the access ramps in place along the Perimeter Embankment between the Zone T haul road and the crest of the dam. This will allow access to the crest in the future. The ramps were cut into Zone T fill material and appear to be stable.

Zone F was delivered from the stockpile at the millsite and Zone S originated from Borrow Area 2. Zone T was delivered from the Rock Borrow. Zone F was placed in a 1 m thick lift on the downstream embankment slope over stiff Zone S, while Zone S was placed in 300 mm horizontal lifts. Zone T was placed in 1 m thick lifts over Zone F.

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CONSULTING**SECTION 4.0 - KNIGHT PIESOLD ACTIVITIES****4.1 GENERAL**

KP activities over the reporting period included the following:

- Monitoring and inspection of fill placement of Zones F, S and T.
- Submission of daily summaries of QA/QC and construction activities to MPMC.
- Record sampling and testing of embankment fill materials.
- Preparation of progress reports.

4.2 Laboratory Testing

The following samples were processed during the reporting period:

- R-ZS-3-8
- R-ZS-3-9
- R-ZF-42
- R-ZT-18

The record tests completed during the reporting period proved suitable for their respective zones. The results of the tests are presented in the attached tables and figures.

SECTION 5.0 - MONITORING**5.1 GENERAL**

Instrumentation was monitored during the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

5.2 VIBRATING WIRE PIEZOMETERS

No new piezometers were installed during the reporting period.

Piezometer readings are taken on a weekly basis. The results from the monitoring are shown on Figures 5.1 to 5.8. Locations of the piezometers are presented on the attached Drawings.

Foundation Piezometers

No substantial changes were noted in the foundation piezometers.

Knight Piesold CONSULTING

Fill Piezometers

The majority of the Main Embankment glacial till piezometers responded to construction of the overlying Stage 3A fills with increasing pore pressures. Generally, these piezometers are now fully dissipated, as a constant, horizontal trend has been showing for some time now.

Drain Piezometers

All drain piezometers have remained static and at very low head indicating free draining conditions within the embankment drainage systems.

Tailings Piezometers

Readings at the tailings piezometers continue to mimic the pond level, except at the Main Embankment, where the upstream toe drain has resulted in a depressed phreatic surface.

5.3 DRAIN FLOWS

Drains flows were recorded on August 17, 2001. The results from the foundation drains and upstream toe drain are shown on Figures 5.9 and 5.10, respectively. The timescale on Figure 5.9 has been shortened to help magnify the data recorded in July, 2001. The spike in foundation drain flows around mid July is a result of heavy rainfall. It has since decreased.

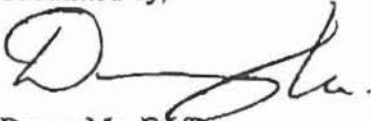
5.4 SLOPE INCLINOMETERS

The equipment used to monitor and record the data from the slope inclinometers arrived on site on August 16, 2001. Five (5) base readings have been taken from each of SI01-1 and SI01-2 to establish a base file for each hole. The equipment was returned to RST on August 23, 2001. Monitoring of these instruments will continue in approximately December 2001. Subsequent reading intervals will be specified in the Operation, Maintenance and Surveillance Manual.

SECTION 6.0 - ONGOING ITEMS

The 2000 and 2001 Inspection Report, Report on Stage 3 Construction, and the Operation, Maintenance and Surveillance manual will be submitted to MPMC in the coming weeks.

Submitted by,



Denny Ma, E.I.T.
Knight Piésold Consulting.

Distribution: Eric LeNeve, Tailings Coordinator, MPMC Site
Don Parsons, Mine Superintendent, MPMC Site
Chris Carr, Ministry of Energy and Mines, Victoria, B.C.
Ken Brouwer, KP Vancouver

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TABLE 4.1

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
ZONE F RECORD TEST SUMMARY SHEET

M:\V\H\N\4\area\2001_08_17\Report\Stage 3\Construction\test\summary\4.1-ZF-record-sheet.doc

Knight Piésold CONSULTING										PAGE: 1 of 1															
PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION										PERIOD: August 6 to August 23, 2001															
MATERIAL: Zone F - Filter Sand										REQ/TEST NO.: 11162/14															
										AREA: TSF															
Sample No.	Date Sampled	Location	SR (m)	C1			C2	Field	C3	C4 (Particle Size Distribution)													C5	C6	
				According to ASTM																					
				PL	LL	FI				wt %	4.75	7.5	15	30	60	100	200	425	600	850	1060	2000			4750
				%	%	%				%	%	%	%	%	%	%	%	%	%	%	%	%			%
R-2F-42	15-Aug-01	30-36, 5 m ESE of Zone F	942.5	-	-	-	8.1	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MEAN				8.1	0.0	0.0	8.1	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
STANDARD DEVIATION				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAXIMUM (%)				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MINIMUM (%)				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Note: These are 100% limits.

Values with under/through indicate that no-testing was successful. These samples will be withdrawn from the record in the following report.

IF - In progress

Collection of Stage 3A data in progress, samples R-2F-42, 43, 44 and 45 are outstanding.

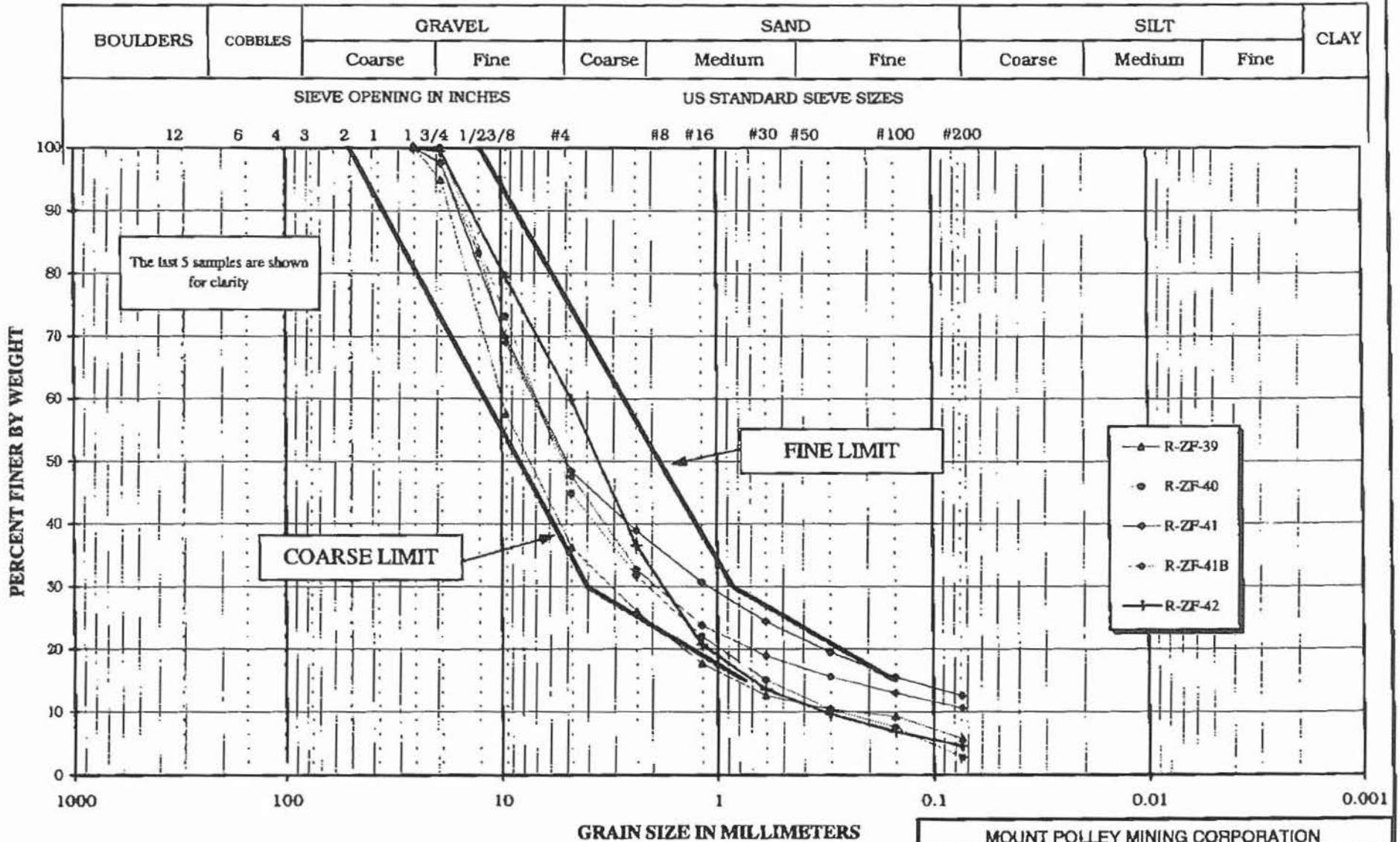
- R1 Atterberg Limits (ASTM D4318)
- R2 Moisture Content (ASTM D2216)
- R3 Particle Size Distribution (ASTM D422)
- R4 Laboratory Compaction (ASTM D1557)
- R5 Specific Gravity (ASTM D153)

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MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY - STAGE 3B		
CONSTRUCTION - ZONE F RECORD SAMPLES		
GRADATION CURVES		
Knight Piésold CONSULTING		
PROJECT NO. 11162714	REF. NO.	REV.
FIGURE 4.2		

ZONE 5 RECORD TEST SUMMARY SHEET

11160/14-ORIG-19
Revision 1
9/11/01

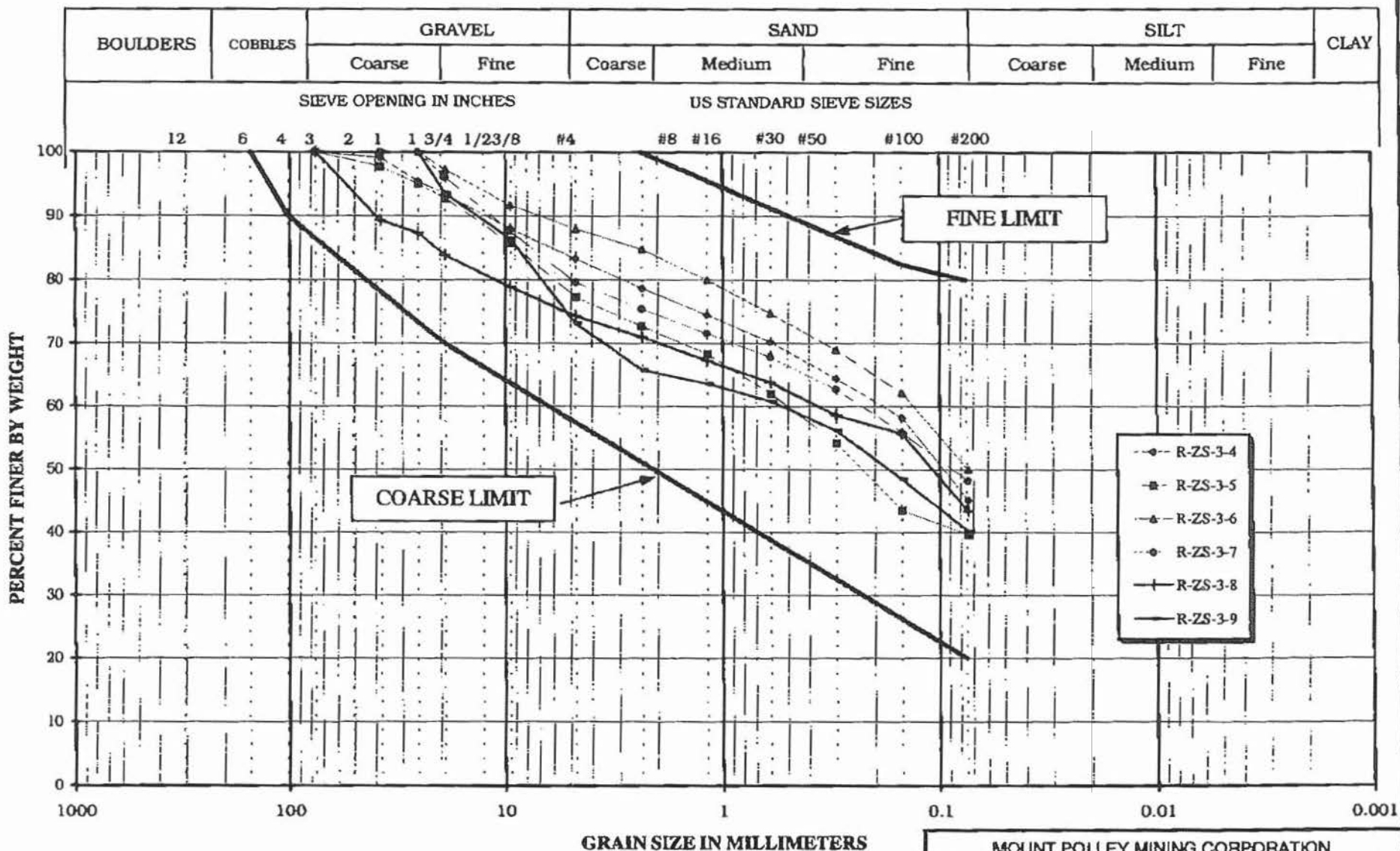


TABLE 4.4

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION

ZONE T RECORD TEST SUMMARY SHEET

M:\1182\14\unsmont\2001_09_27\kpiest\Stage 3B Construction\Lab\record\DR-27-01\mmr.xls\Data Sheet

11/01

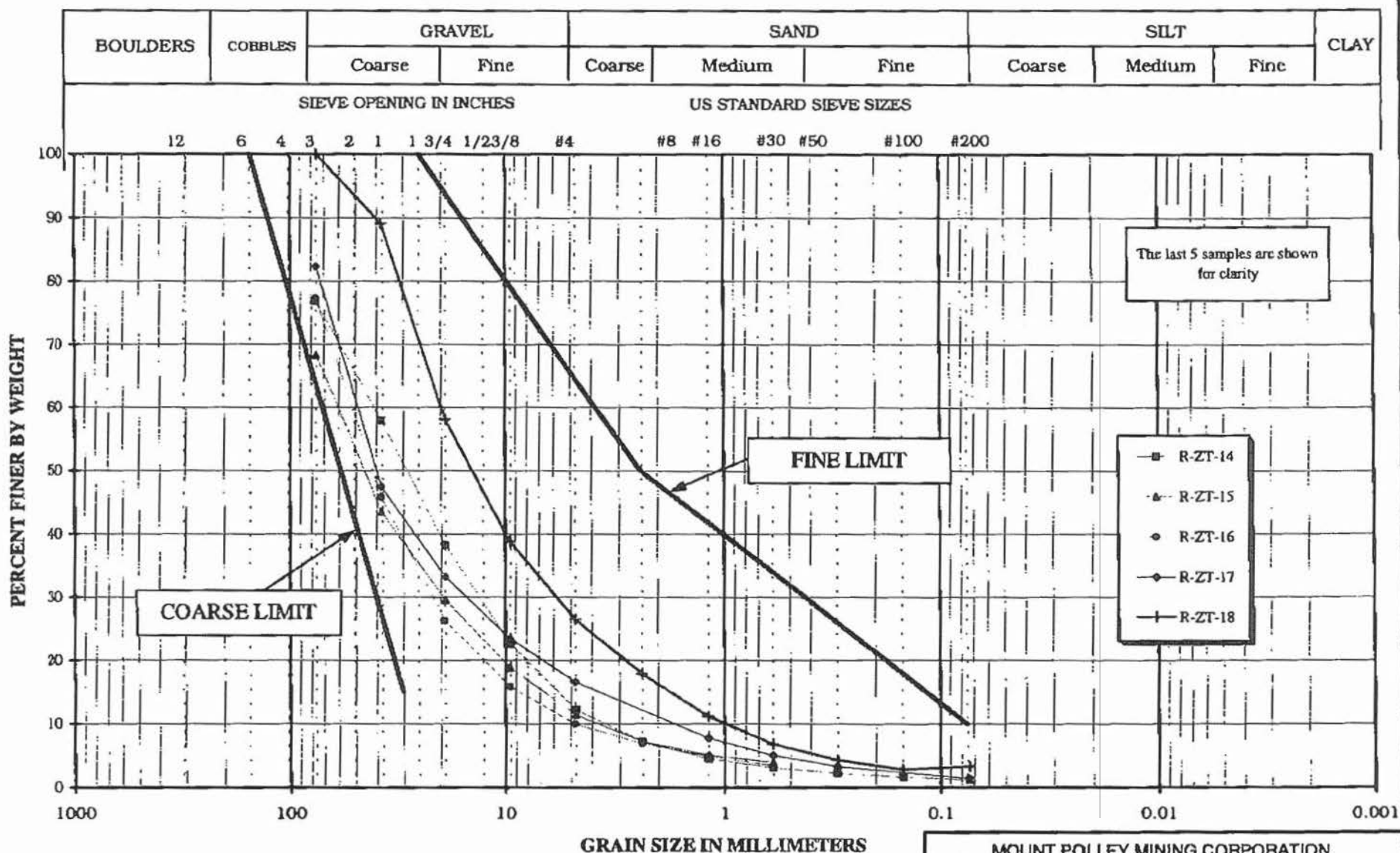
Knight Piesold CONSULTING										REFLECT: 1 of 1									
PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION										PROJECT: July 30 to August 23, 2001									
MATERIAL: Zone T - Transition Zone										PROJECT NO.: 11162/14									
										AREA: TSP									
Sample No.	Date Sampled	Location	R1 (m)	R1 Atterberg Limits			R2 Liquid Limit	R3 Plasticity Index	R4 Specific Gravity	R5 (Particle Size Distribution)									
				FL	LL	PI				152.4	75.0	47.5	25.0	15.0	7.5	4.75	2.5	1.5	0.75
				%	%	%				6	3	1.5	0.75	0.375	0.187	0.0937	0.0475	0.0236	0.0118
B-ZT-1	3-Feb-00	-	-	-	-	-	-	-	-	91.0	81.0	59.0	40.2	26.1	16.5	13.2	9.9	7.7	5.7
B-ZT-2	16-Feb-00	-	-	-	-	-	-	-	-	100.0	80.0	60.0	42.5	29.0	11.3	15.9	11.8	9.1	7.3
B-ZT-3	15-Feb-00	-	-	-	-	-	-	-	-	100.0	86.1	57.7	44.2	30.0	20.0	14.1	10.0	7.3	4.6
B-ZT-4	27-Feb-00	-	-	-	-	-	-	-	-	100.0	78.0	48.3	33.9	23.5	17.0	-	5.3	3.7	2.3
B-ZT-5	25-Aug-00	15+30	999.0	-	-	-	-	-	-	100.0	62.8	51.4	35.6	25.7	20.9	16.1	11.0	7.8	-
B-ZT-6	23-Aug-00	25+00	-	-	-	-	-	-	-	100.0	65.5	56.3	-	-	25.3	19.4	15.3	9.7	6.0
B-ZT-7	25-Aug-00	30+00	913.0	-	-	-	-	-	-	100.0	95.0	51.3	-	-	37.8	25.3	16.0	9.8	5.7
B-ZT-8	9-Sep-00	13+80	996.0	-	-	-	-	-	-	100.0	80.0	70.1	44.3	26.3	12.9	6.7	6.3	4.5	-
B-ZT-9	9-Sep-00	26+00	940.0	-	-	-	-	-	-	100.0	90.0	70.8	46.9	27.3	17.7	10.7	7.0	6.0	-
B-ZT-10	11-Sep-00	30+60	941.0	-	-	-	-	-	-	100.0	83.0	67.5	-	-	27.4	20.8	14.2	13.3	5.5
B-ZT-11	4-Dec-00	30+60	941.0	-	-	-	-	-	-	100.0	80.0	67.4	51.9	32.7	27.3	14.8	9.8	6.7	3.5
B-ZT-12	3-Jan-01	40+50.1 in DWS of Zone S	973.5	-	-	-	6.4	-	-	100.0	80.0	46.4	32.3	22.0	14.9	10.8	7.6	3.8	4.2
B-ZT-13	23-Jan-01	37+50.1 in DWS of Zone S	977.0	-	-	-	3.0	-	-	100.0	76.3	49.7	34.5	22.9	14.6	9.7	6.4	4.3	2.4
B-ZT-14	9-Feb-01	35+80.3 in DWS of Zone S	978.0	-	-	-	1.4	-	-	100.0	76.9	57.9	38.3	22.6	12.2	7.3	4.5	3.1	2.3
B-ZT-15	23-Feb-01	40+25.3 in DWS of Zone S	978.0	-	-	-	3.6	-	-	100.0	68.3	43.5	29.5	18.8	13.4	7.2	5.1	3.9	2.8
B-ZT-16	26-Feb-01	40+02.3 in DWS of Zone S	949.5	-	-	-	4.0	-	-	100.0	77.3	45.8	36.2	15.8	9.9	6.8	4.9	3.4	-
B-ZT-17	5-Aug-01	40+02.3 in DWS of Zone S	946.0	-	-	-	3.3	-	-	100.0	82.3	47.4	33.3	23.4	14.6	-	5.8	3.3	-
B-ZT-18	13-Aug-01	36+77.3 in DWS of Zone S	946.0	-	-	-	4.3	-	-	100.0	100.0	67.1	58.3	34.8	24.5	17.9	11.2	6.8	4.3
MEAN				65.9	65.9	65.9	1.4	65.9	95.4	79.9	60.3	39.4	25.2	22.8	11.7	9.3	6.4	4.4	3.3
MAXIMUM				80.0	80.0	80.0	4.4	80.0	100.0	100.0	77.8	58.3	38.3	23.4	18.3	11.7	8.8	6.5	3.3
MINIMUM (%)				6.0	6.0	6.0	1.4	6.0	90.0	62.8	41.5	25.3	15.8	9.9	6.9	4.5	3.1	2.3	1.0

Note: Tests are 100% limits.

Values for Standard Proctor maximum dry density and optimum moisture content include over-size correction.

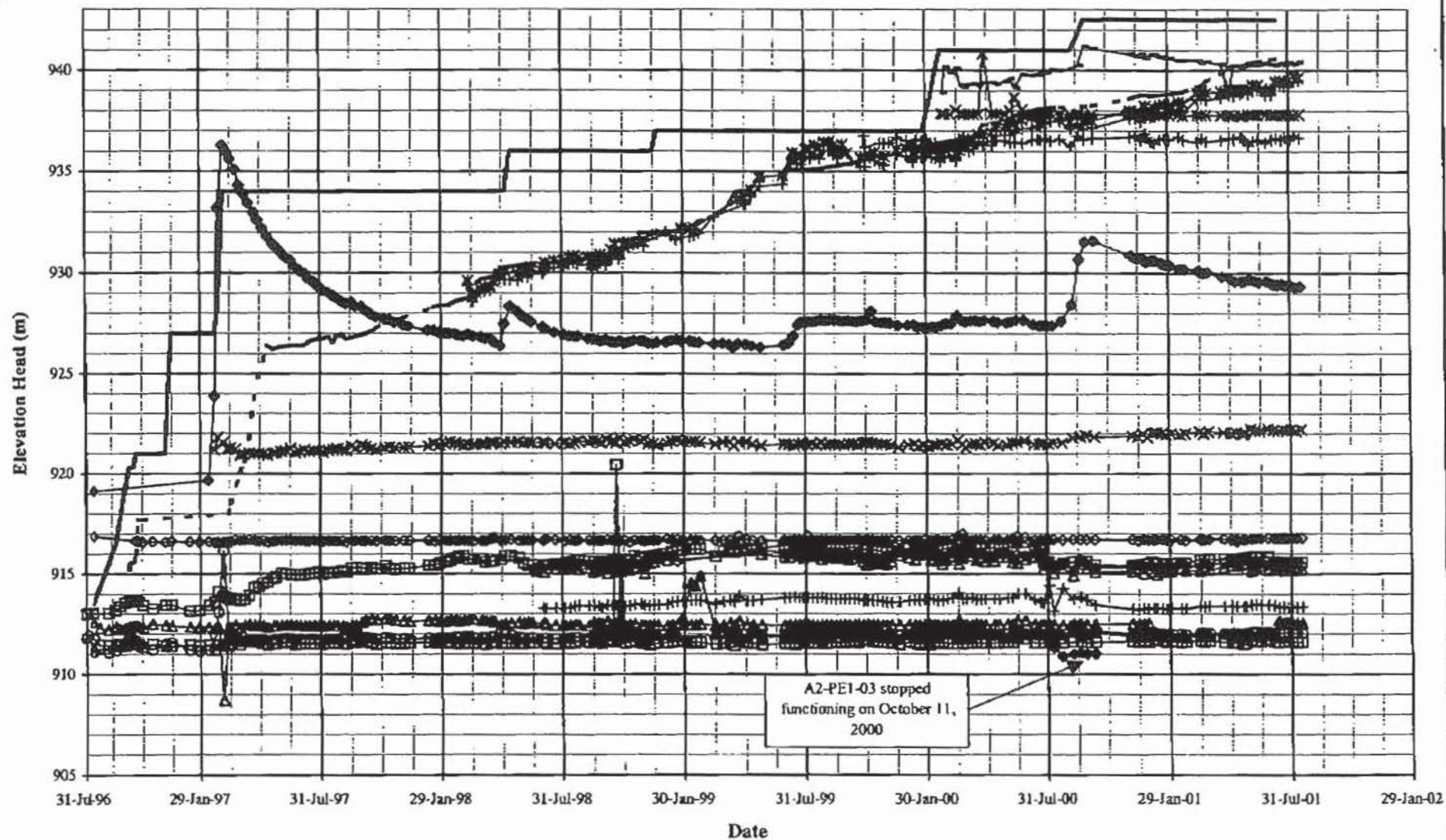
R - In progress

- R1 Atterberg Limits (ASTM D4318)
- R2 Moisture Content (ASTM D2216)
- R3 Particle Size Distribution (ASTM D422)
- R4 Laboratory Compaction (ASTM D1557)
- R5 Specific Gravity (ASTM D854)



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- - - Pond Level	— Fill Elevation	—*— A0-PE2-01	—+— A0-PE2-02
—▲— A1-PE1-01	—□— A1-PE1-02	—◇— A1-PE1-03	—▲— A2-PE1-01
—□— A2-PE2-01	—○— A2-PE2-02	—◆— A2-PE2-03	—×— A2-PE2-05
—▲— A2-PE2-06	—◇— A2-PE2-07	—+— A2-PE2-08	—+— A1-PE1-04
—▲— A2-PE1-02	—×— A0-PE1-01	—◆— A2-PE1-03	

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE A PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

Knight Piesold
CONSULTING

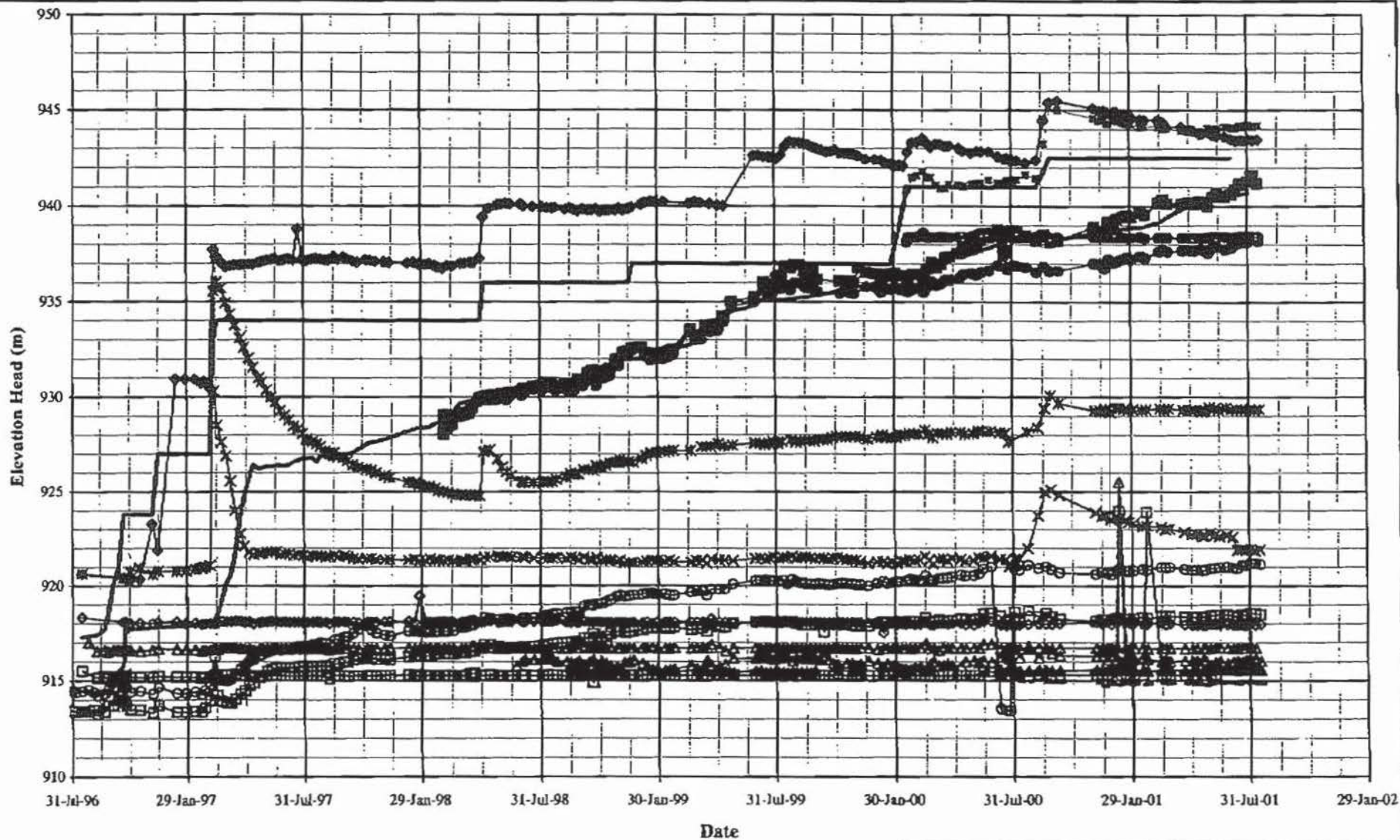
PROJECT NO. 11162/14	REF NO.	REV.
FIGURE 5.1		

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NO. 810 P014/026

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RECORDS 13 Page 426 of 438 .015

NU-B10 P015/026

- | | | | | |
|--------------|------------------|-------------|-------------|-------------|
| — Pond Level | — Fill Elevation | ■ B0-PE2-01 | ● B0-PE2-02 | ▲ B1-PE2-01 |
| □ B1-PE1-01 | ◇ B1-PE1-03 | ▲ B2-PE1-01 | □ B2-PE2-01 | ○ B2-PE2-02 |
| ◆ B2-PE2-03 | * B2-PE2-04 | * B2-PE2-05 | ▲ B2-PE2-06 | ● B0-PE1-01 |
| ■ B2-PE1-02 | - B2-PE1-03 | | | |

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

PLANE B PIEZOMETERS

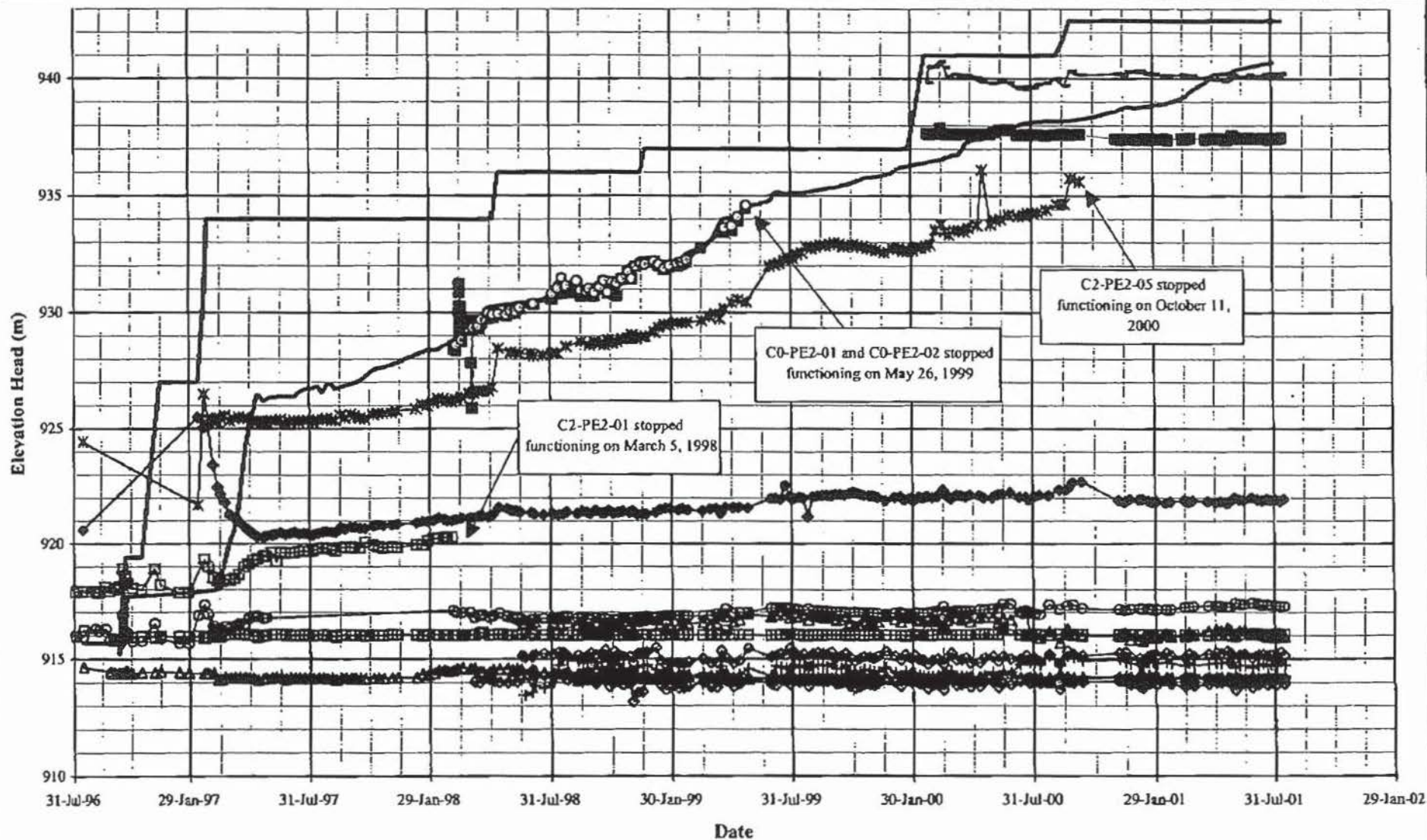
GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold
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PROJECT NO. 11162/14	REF. NO.	REV
FIGURE 5.2		

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— Pond Level	— Fill Elevation	■ C0-PE2-01	○ C0-PE2-02	△ C1-PE1-01
□ C1-PE1-02	◇ C1-PE1-04	▲ C2-PE1-01	▣ C2-PE2-01	⊖ C2-PE2-02
◆ C2-PE2-03	* C2-PE2-05	△ C2-PE2-06	⊖ C2-PE2-07	+ C2-PE2-08
■ C0-PE1-01	— C2-PE1-02	- C2-PE1-03		

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

PLANE C PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

Knight Piesold
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PROJECT NO. 11162/14	REF NO.	REV
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FIGURE 5.3

RECORDS 19 Page 42 of 498 .016

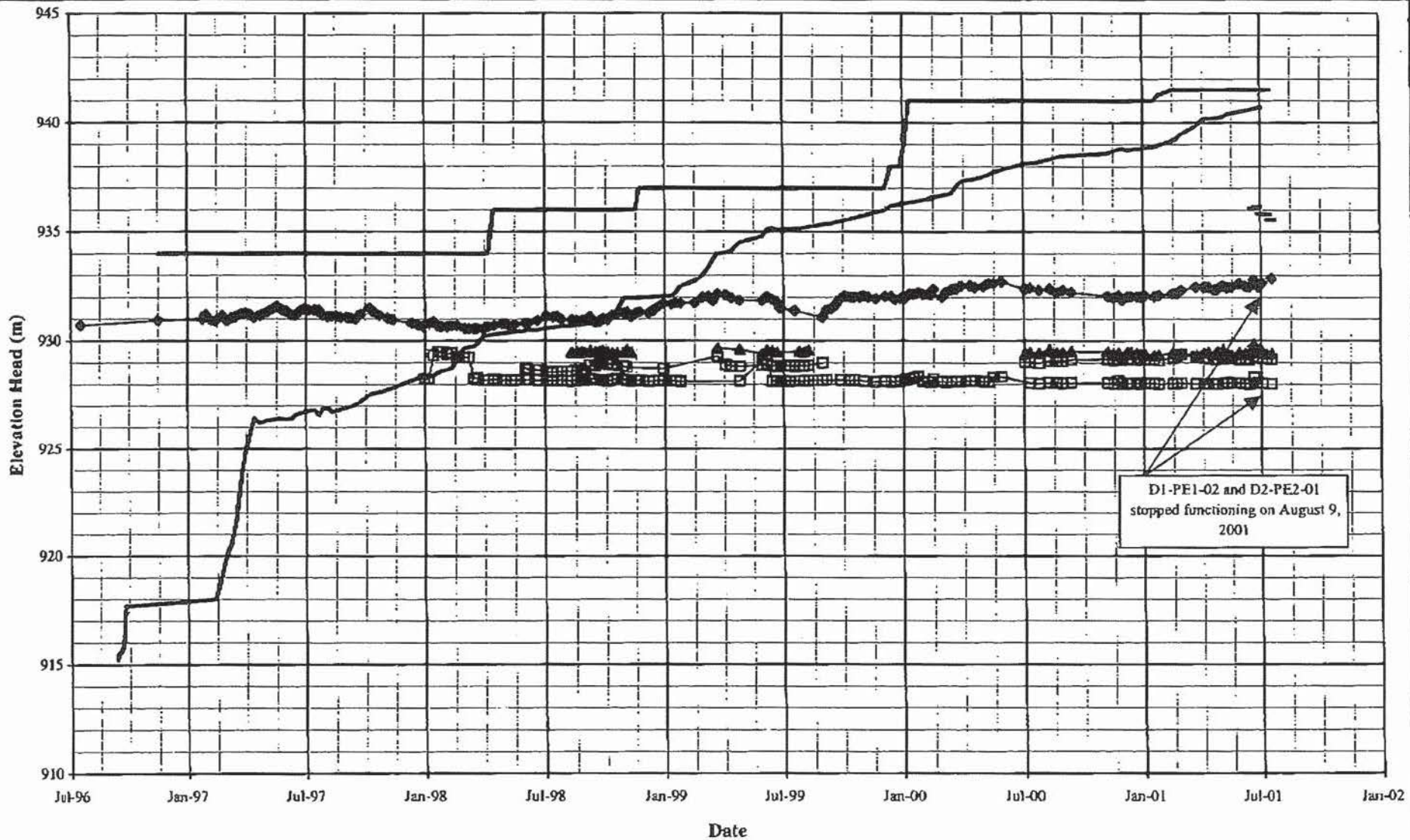
NO. 810 P016/026

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KNIGHT PIESOLD LTD VANCOUVER - 250 952 0481

NO. 810 P017/026



— Pond Level — Fill Elevation □ D1-PE1-02 ▲ D2-PE1-01
 ◆ D2-PE2-01 □ D2-PE2-02 - D1-PE1-03

MOUNT POLLEY MINING CORPORATION
 MOUNT POLLEY MINE
 TAILINGS STORAGE FACILITY
 PLANE D PIEZOMETERS
 GRAPH OF ELEVATION HEAD vs. TIME

Knight Piesold
 CONSULTING

PROJECT NO 11162/14	REV. NO	REV.
FIGURE 5.4		

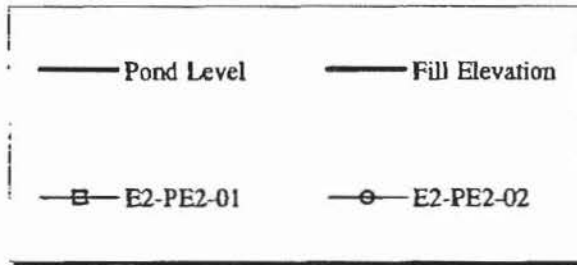
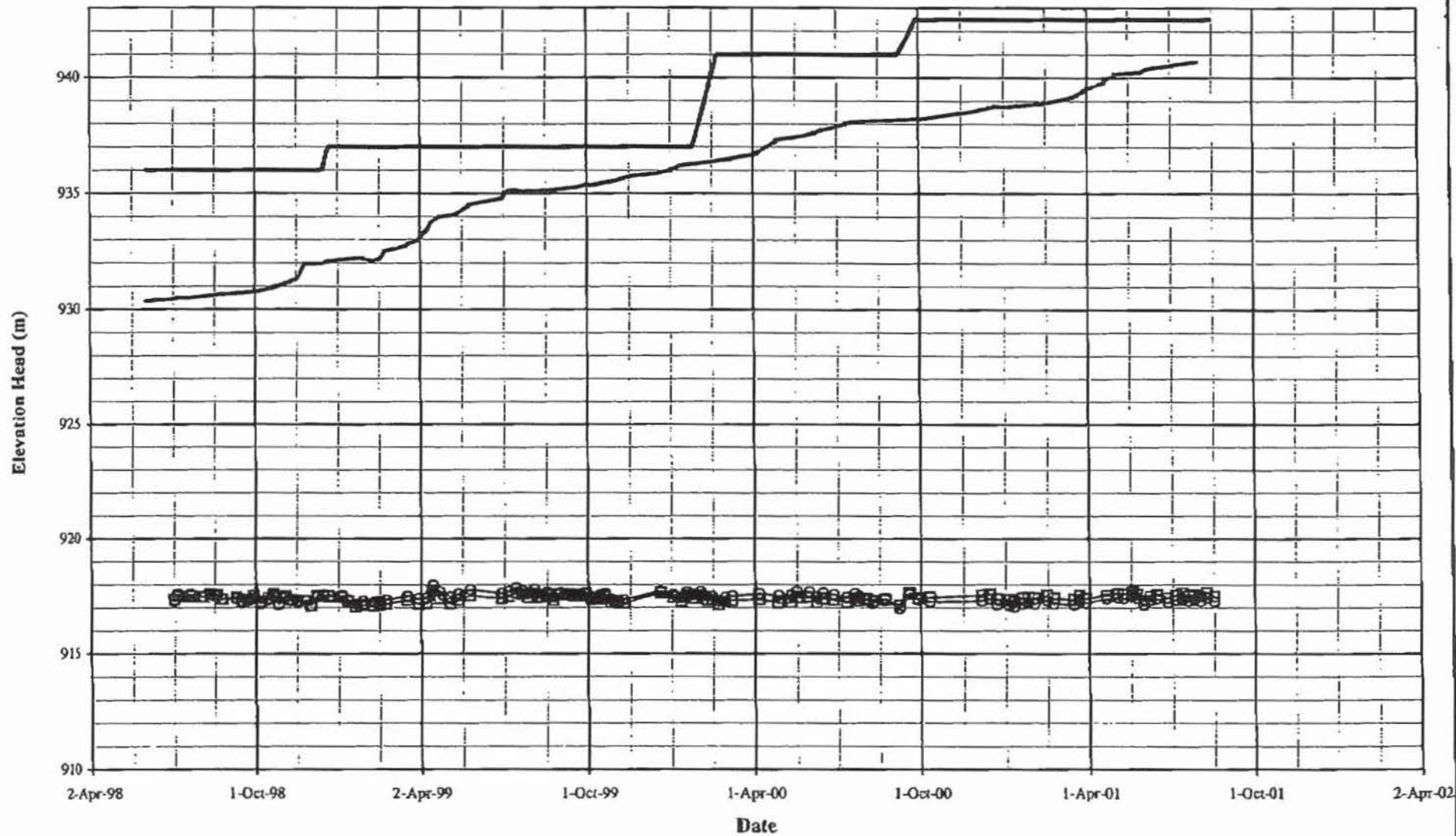
686600005 10 Page 42800488 .017

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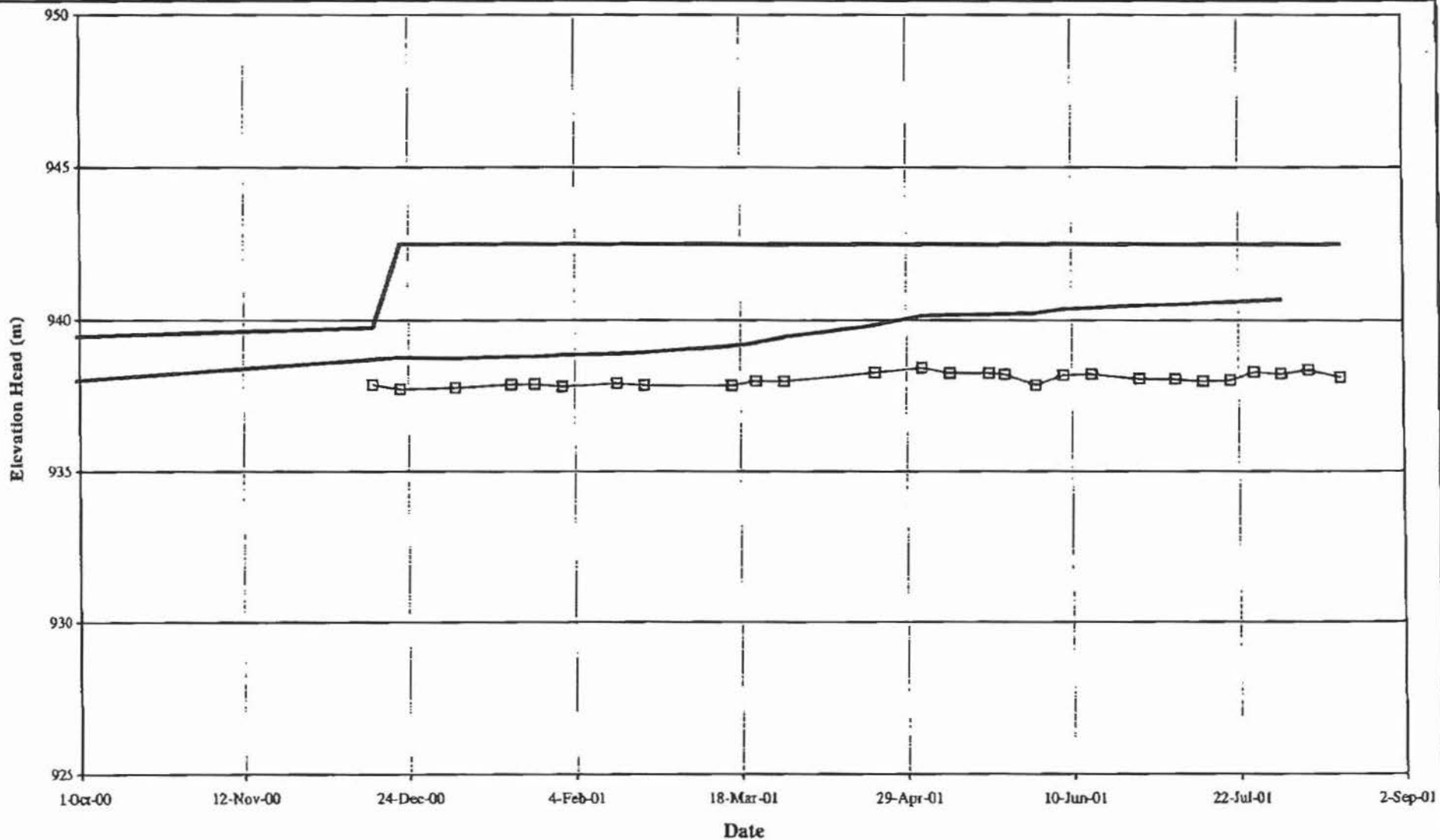
6 RECORDS 10 Page 429 of 438 .018

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MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
TAILINGS STORAGE FACILITY			
PLANE E PIEZOMETERS			
GRAPH OF ELEVATION HEAD vs. TIME			
<i>Knight Piesold</i> CONSULTING	PROJECT NO.	REF. NO.	REV.
	11182/14		
	FIGURE 5.5		



— Pond Level

— Fill Elevation

—□— F2-PE2-01

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

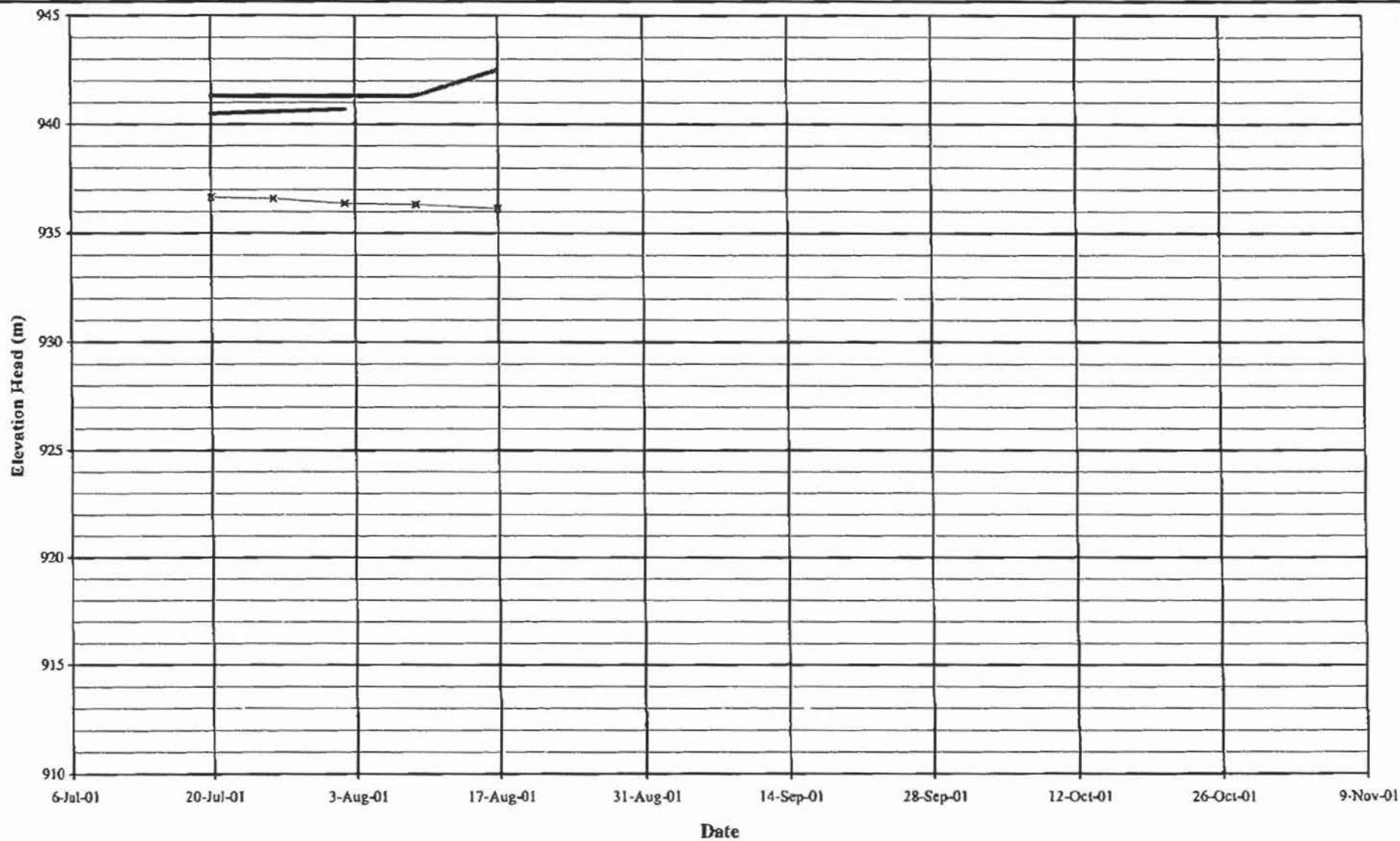
PLANE F PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold
 CONSULTING

PROJECT NO. 11162/14	REF NO.	REV.
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FIGURE 5.6



— Pond Level

— Fill Elevation

—x— G1-PE1-01

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

PLANE G PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

Knight Piesold
 CONSULTING
PROJECT NO
11162/14

REF. NO.

REV

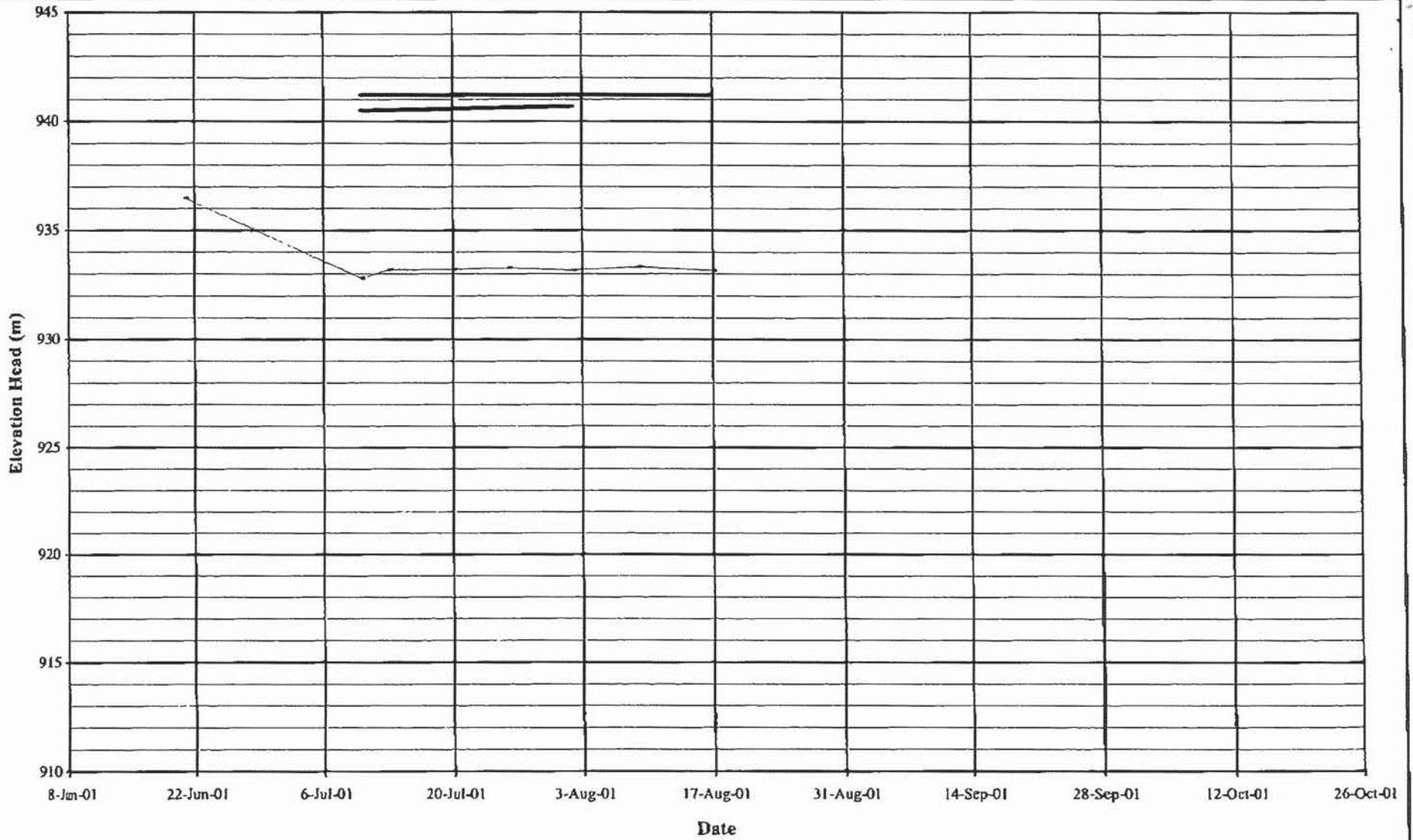
FIGURE 5.7

SEP 12 '01 16:52

RECORDED 19 PAGE 432 OF 435 . 021

09/12/01 16:47 KNIGHT PIESOLD LTD VANCOUVER - 250 952 0481

NO. 810 P021/026



— Pond Level

— Fill Elevation

— H1-PE1-01

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

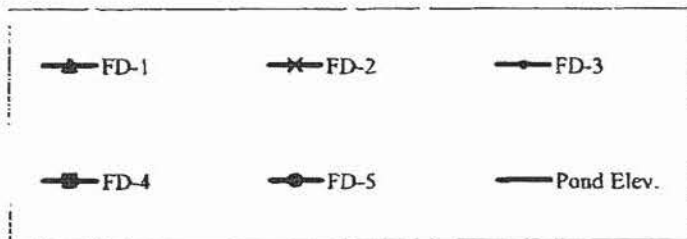
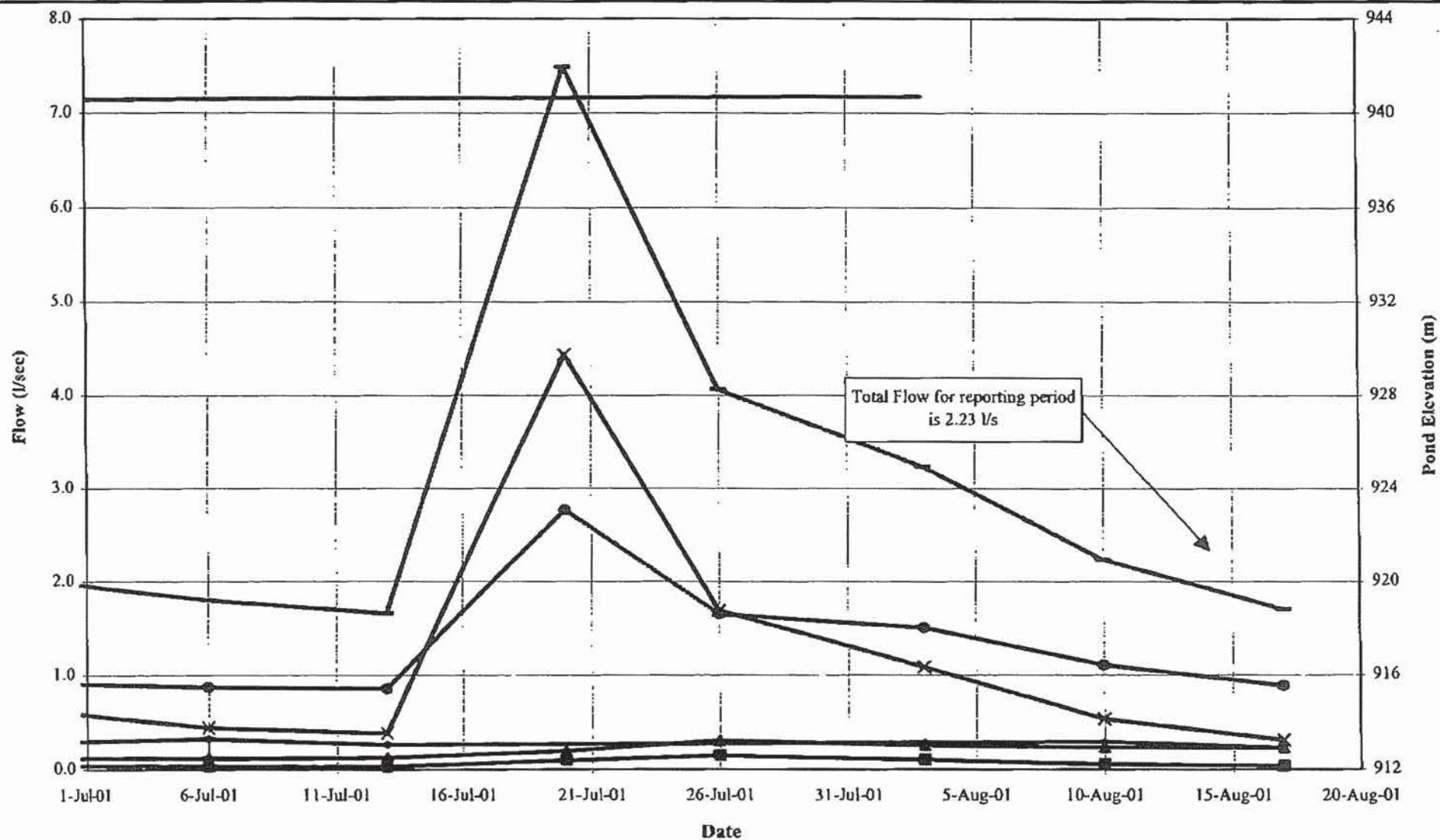
PLANE H PIEZOMETERS

GRAPH OF ELEVATION HEAD vs. TIME

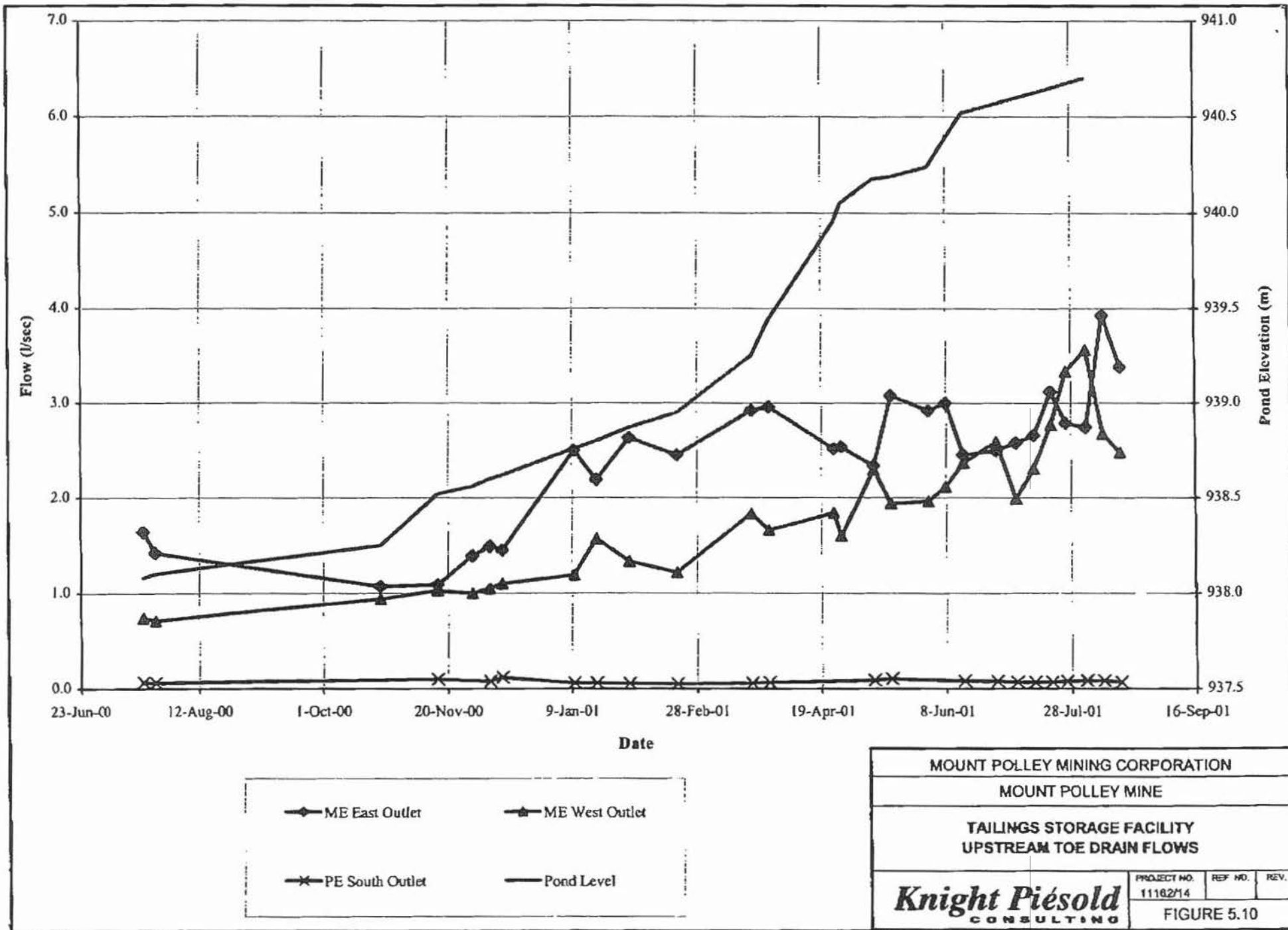
Knight Piesold
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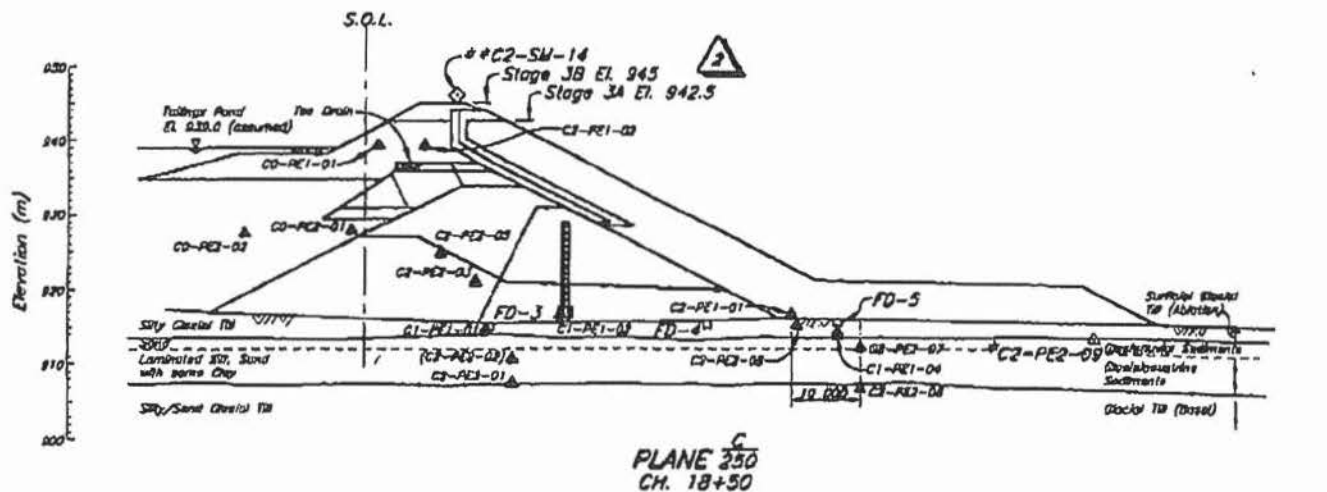
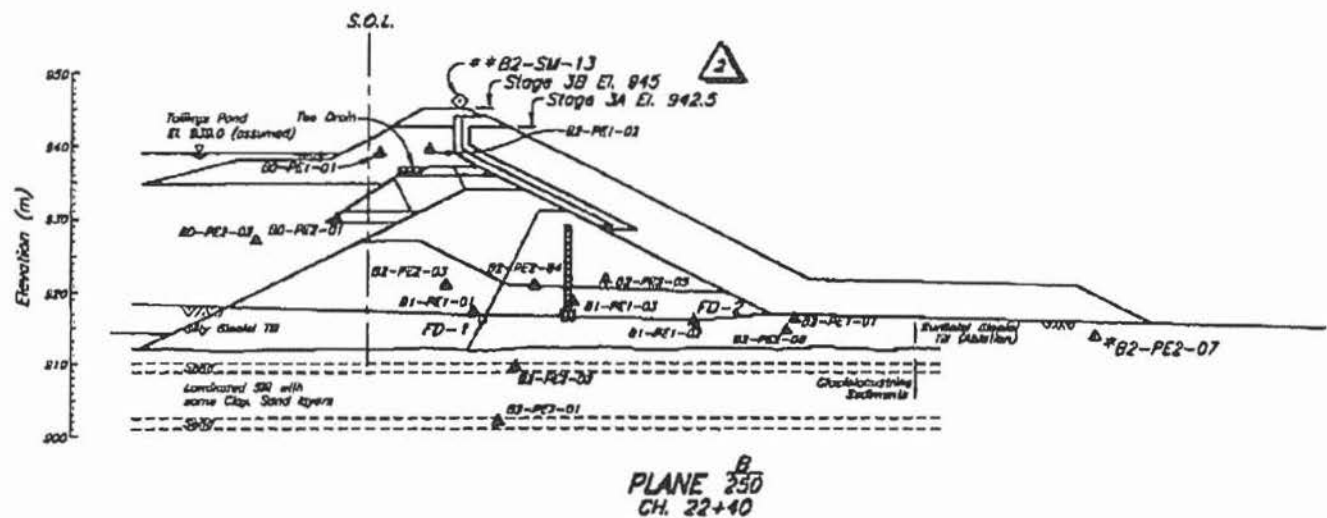
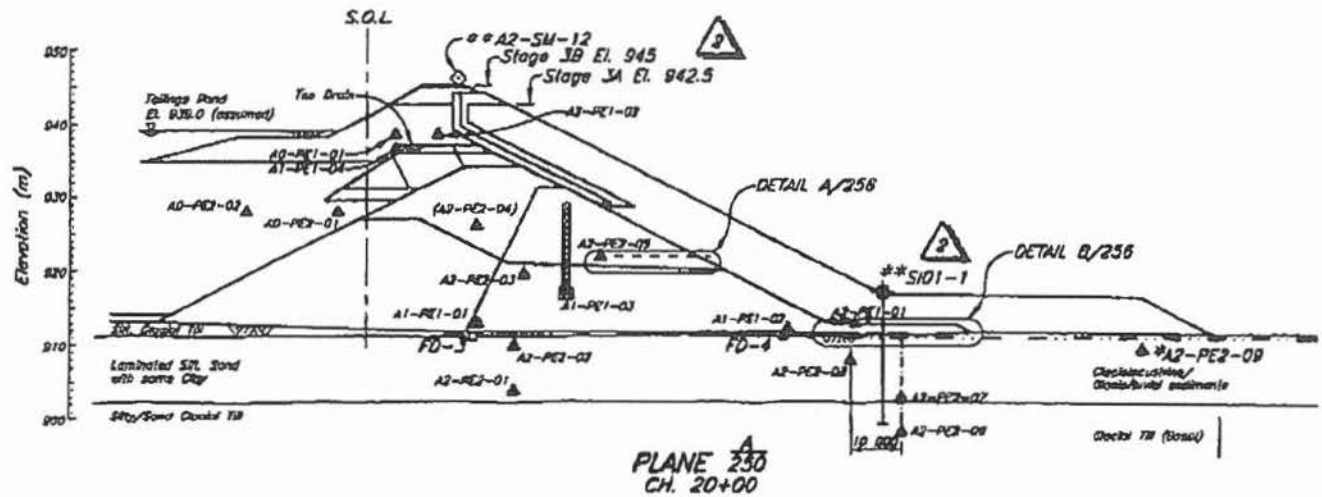
PROJECT NO. 11162/14	REF. NO.	REV
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FIGURE 5.8



MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
TAILINGS STORAGE FACILITY			
MAIN EMBANKMENT			
FOUNDATION DRAIN FLOWS			
Knight Piesold CONSULTING		PROJECT NO.	REF NO.
		11152/14	
			REV.
FIGURE 5.9			



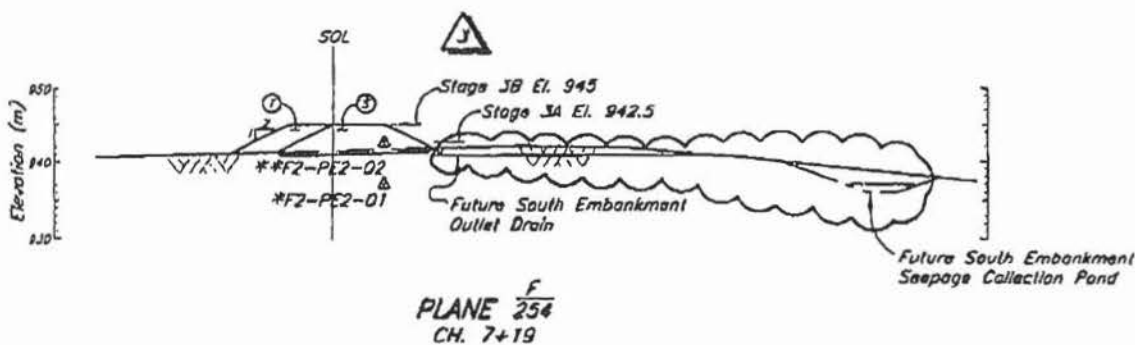
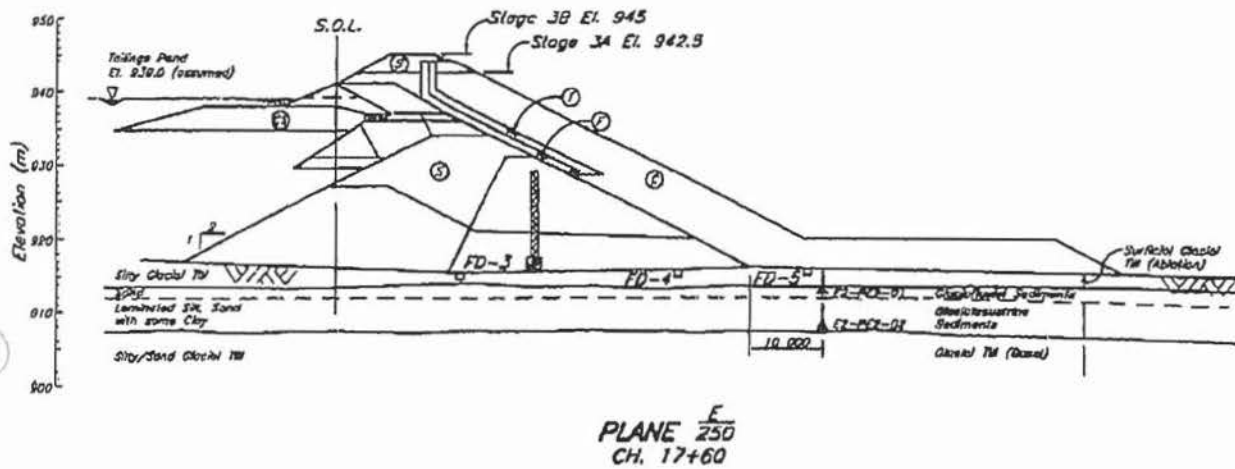
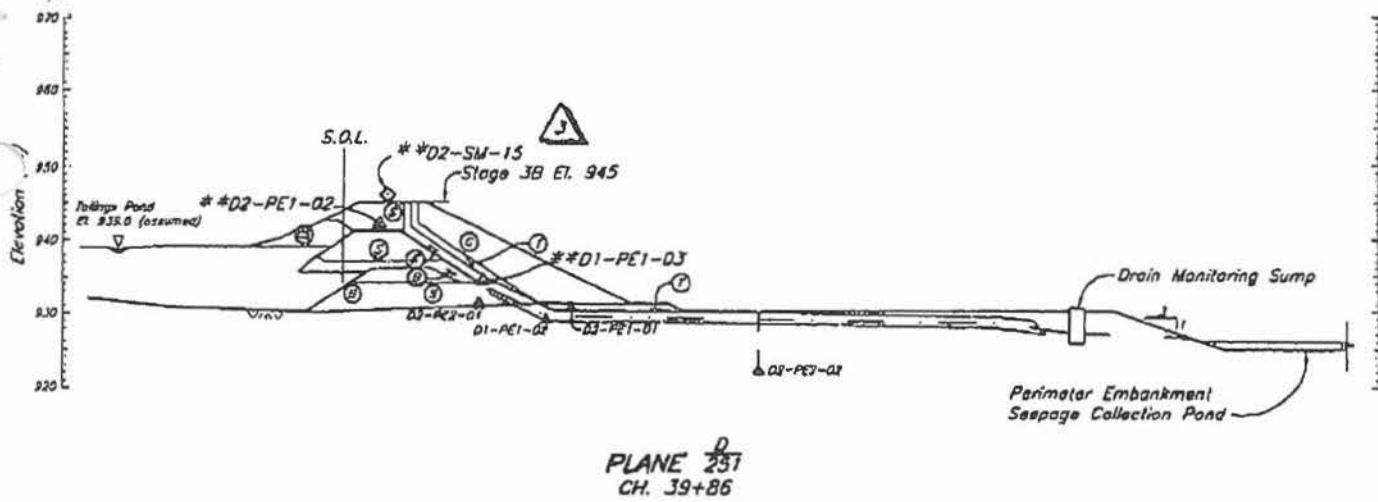


STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SECTIONS 2 OF 2
STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SUMMARY OF INSTALLATION & TYP. DETAILS
STAGE 3 MAIN EMBANKMENT - INSTRUMENTATION - PLAN

REFERENCE DRAWINGS

2	05MAY'01	DEBATED FC
1	26JAN'01	STAGE 3B
0	2JUN'00	INSURED FC

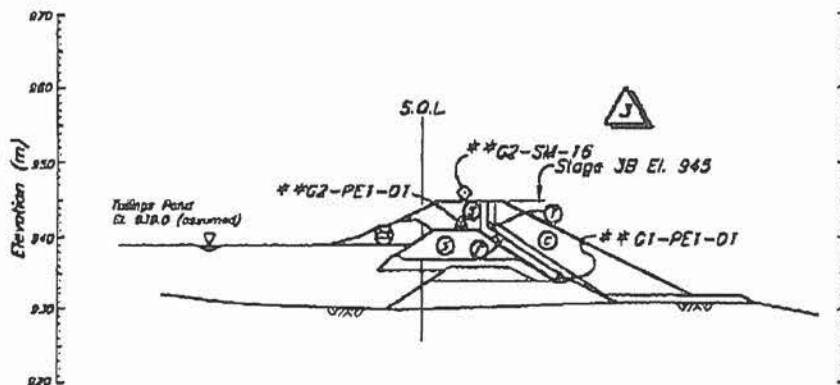
REV.	DATE	
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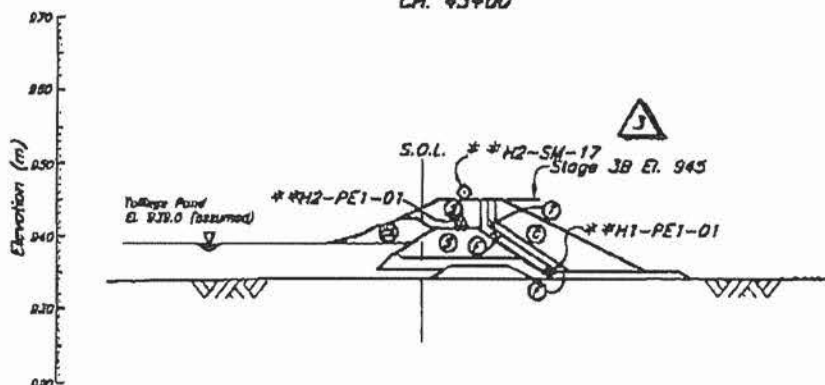
STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION SUMMARY OF INSTALLATION & TYPICAL DETAILS
STAGE 3 TAILINGS EMBANKMENT - SOUTH EMBANKMENT - INSTRUMENTATION PLAN
STAGE 3 PERIMETER EMBANKMENT - INSTRUMENTATION PLAN
STAGE 3 TAILINGS EMBANKMENT - MAIN EMBANKMENT - INSTRUMENTATION PLAN

DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHEK'D	APP'D	REV.	DATE
REFERENCE DRAWINGS			REVISIONS						

3	08MAY'01	ISSUED FOR
2	28JAN'01	STAGE 3B
1	30OCT'00	PERIMETER
0	2JUN'00	ISSUED FOR



PLANE $\frac{G}{331}$
CH. 43+00



PLANE $\frac{H}{331}$
CH. 36+00

NOTE

1. See Org. No. 11162-13-256 for Summary of Instrumentation Installations, Typical Details, General Notes and Legend.
2. Instrumentation with one asterisk indicates placement during Stage 3A construction. Instrumentation with 2 asterisks indicate placement during Stage 3B construction.



Scale 10 0 10 20 30 40 50 m



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 3 TAILINGS EMBANKMENT
INSTRUMENTATION
SECTIONS - SHEET 2 OF 2

FOR STAGE 3B TENDER	CWM	DSR	JRM	KJB
- CREST ELEVATION 945	JRK	AW	JMTW	KJB
FOR EMBANKMENT SECTIONS ADDED	JRK	NSD	JMTW	KJB
FOR CONSTRUCTION	JRK	TAM	ASW	KJB
DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED
REVISIONS	DESIGN	DRAWN	CHECKED	APPROVED

Knight Piesold
CONSULTING

SCALE AS SHOWN
REVISION 3
DRAWING NO. 11162-13-259

COVER LETTER

DATE 09/12 16:42

TO: 250 952 0481
FROM: KNIGHT PIESOLD LTD VANCOUVER
TEL NO. 604 685 0147

TOTAL PAGES 027 (INCLUDE THIS PAGE)

SEP 12 '01 16:54

604 685 0147 PAGE.027