APPENDIX I

Site Selection Study

- Annotative Bibliography
- Minutes of Project Brainstorming Meeting
- December 7, 2006 Correspondence – Site Comparison
- Site B and Site E Comparative Costs

Klohn Crippen Berger

MEMORANDUM

TO:	Erik Tornquist Harvey McLeod	**DATE:**	March 5, 2007
FROM:	Terence Jibiki	**FILE NO:** **LOG NO:**	M09382A01.200
SUBJECT:	Morrison Copper/Gold Project - Annotative Bibliography of Existing Reports		

The following is a summary of existing reports on the Morrison Copper/Gold Project, reviewed by KCBL:

1. **"Preliminary Assessment", Beacon Hill Consultants Ltd. August 1, 2004:**
   - Property description, regional history and geology.
   - Assessment of mining economics at production rates of 20,000 tpd, 25,000 tpd, and 30,000 tpd; and sensitivity analyses.
   - Resource estimation, mine plan, processing, capital and operating costs and financial analysis.
   - Waste disposal based on Site B, and previous reports on site alternative studies.
   - Waste rock transportation comparison between conveyor and haul trucks.
   - Environmental assessment program and processes including land use, setting and effects.

2. "**Report on Initial Waste Management Site Alternatives Study" (Ref. No. VA101-00102/1-1), Knight Piesold Ltd. October 7, 2002:**
   - Comparison of waste management site alternatives, including sites A to D.
   - Includes design parameters used in the site alternatives study, and comparison of catchment area, disturbance area, crest elevation, embankment volume, storage volume, length of haul road, and other items.
   - Appendix A – "Babine Porphyry Belt Project: Quaternary Geology and Regional Till Geochemistry Sampling in the Old Fort Mountain (93M/01) and Fulton Lake (93L/16) Map Areas, British Columbia", Huntley et al., 1996.

3. **"Report on Initial Site Visit and Updated Concepts for Waste Management" (Ref. No. VA101-00102/1-2), Knight Piesold Ltd. August 20, 2003:**
   - Summary of site visits including Huckleberry Mine, Bell Copper and Morrison sites.
   - Concepts A (now B), E (now A) and AE for waste management including a qualitative comparison of the concepts.
   - Maps showing climate stations, hydrology stations, water quality measuring points, orthophoto, and surficial geology.
   - Fly-over photos.

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4. **"Tailings and Waste Rock Management - Input to Scoping Study" (Ref. No. VA101-00102/03-1), Knight Piesold Ltd. June 17, 2004:**
   - Concept level design layouts and cost estimates for Sites A and B.
   - Option 1 for site A, Option 2 (till core) and Option 3 (HDPE lining) for site B and Option 4 for sites A and B combined.

5. **"Geotechnical Site Investigation Report" (Ref. No. VA101-102/7-1), Knight Piesold Ltd. July 7, 2003:**
   - Geological background including the regional geology, topography and geomorphology.
   - Geotechnical conditions for the waste management facility (Site B) and plant site in regards to overburden, bedrock and groundwater.
   - Laboratory testing results: moisture content, sieve, pipette and hydrometer particle size analyses, Atterberg limits, particle density, Standard Proctor, and hydraulic conductivity (Proctor compacted and Shelby tube).
   - Overburden and bedrock drilling including soil drilling and sampling and geotechnical logging and testing.
   - Hydrogeological testing including packer permeability tests and groundwater level measurement.
   - Drawings showing site investigation plan and sections.
   - Geotechnical drillhole logs (overburden and bedrock).
   - Packer permeability testing sheets and well completion details.
   - Cantest test results.
   - Test pit and bedrock core photographs.

6. **"2006 Open Pit Geotechnical Investigations Rev. 1" (Ref. No. VA101-102/8-1), Knight Piesold Ltd. September 14, 2006:**
   - Geological background on regional geology, topography, geomorphology and deposit geology.
   - Deposit geology including lithology, alteration and structures.
   - Site investigation program covering bedrock drilling, hydrogeological testing and laboratory testing of the open pit area.
   - Bedrock drilling including core orientation and geotechnical sampling.
   - Hydrogeological testing, including permeability tests, piezometer installation and groundwater measurement.
   - Laboratory testing including point load, unconfined compressive strength and direct shear testing.
   - Geotechnical condition characterizations including geological domains, intact rock strength, rock mass discontinuities, rock mass classification and hydrogeology.
   - Geotechnical bedrock drillhole logs.
   - Permeability test results and well completion details.

- Point load test results.
- Discontinuity characteristic histograms.
- Core and site photographs.

7. **"Feasibility Pit Slope Design" (Ref. No. VA101-102/8-2), Knight Piesold Ltd. June 30, 2006:**
   - Design concepts including pit slope geometries and methodology for slope stability assessment as well as recommended slope angles.
   - Interpretation of geotechnical conditions such as pit geology, structural features and groundwater conditions.
   - Kinematic stability analyses including modes of failure and stereographic analyses for phase 1 and 2 pits.
   - Rock mass stability analyses.
   - Concepts for pit water management.
   - Summary of pit slope design.
   - Rock mass strength curves.
   - Recommended open pit geotechnical monitoring.
   - Description of open pit designs for similar large mining projects in BC.

MINUTES OF MEETING

MORRISON COPPER/GOLD PROJECT

TAILINGS AND WASTE ROCK STORAGE SITE SELECTION BRAINSTORMING SESSION

NOVEMBER 6, 2006

Attendees:

Pacific Booker Minerals (PBM)	Erik Tornquist	Executive Director
	Mike Petrina	(C) Project Manager
	Clayton Rouse	Environmental Coordinator
Rescan	Rolf Schmitt	(C) Project Manager
	Jonathan Olsen	Environmental Scientist
	Colin Fyfe	
Minesite Drainage Assessment Group		
	Kevin Morin	(C) ML/ARD Consultant
Wardrop	Peter Wells	(C) Project Manager
	Karla Mills	Project Engineer
	Hassan Ghaffari	Senior Metallurgist
Nilsson Mine Services	John Nilsson	(C) Mining Engineer
Klohn Crippen Berger Ltd (KCBL)	Harvey McLeod	Project Manager
	Terence Jibiki	(C) Project Engineer
	Howard Plewes	Project Reviewer

"(C)" indicates primary contact for project correspondence.

Location: KCBL Vancouver Office - Kipling Room
#500-2955 Virtual Way (@ Broadway & Renfrew)

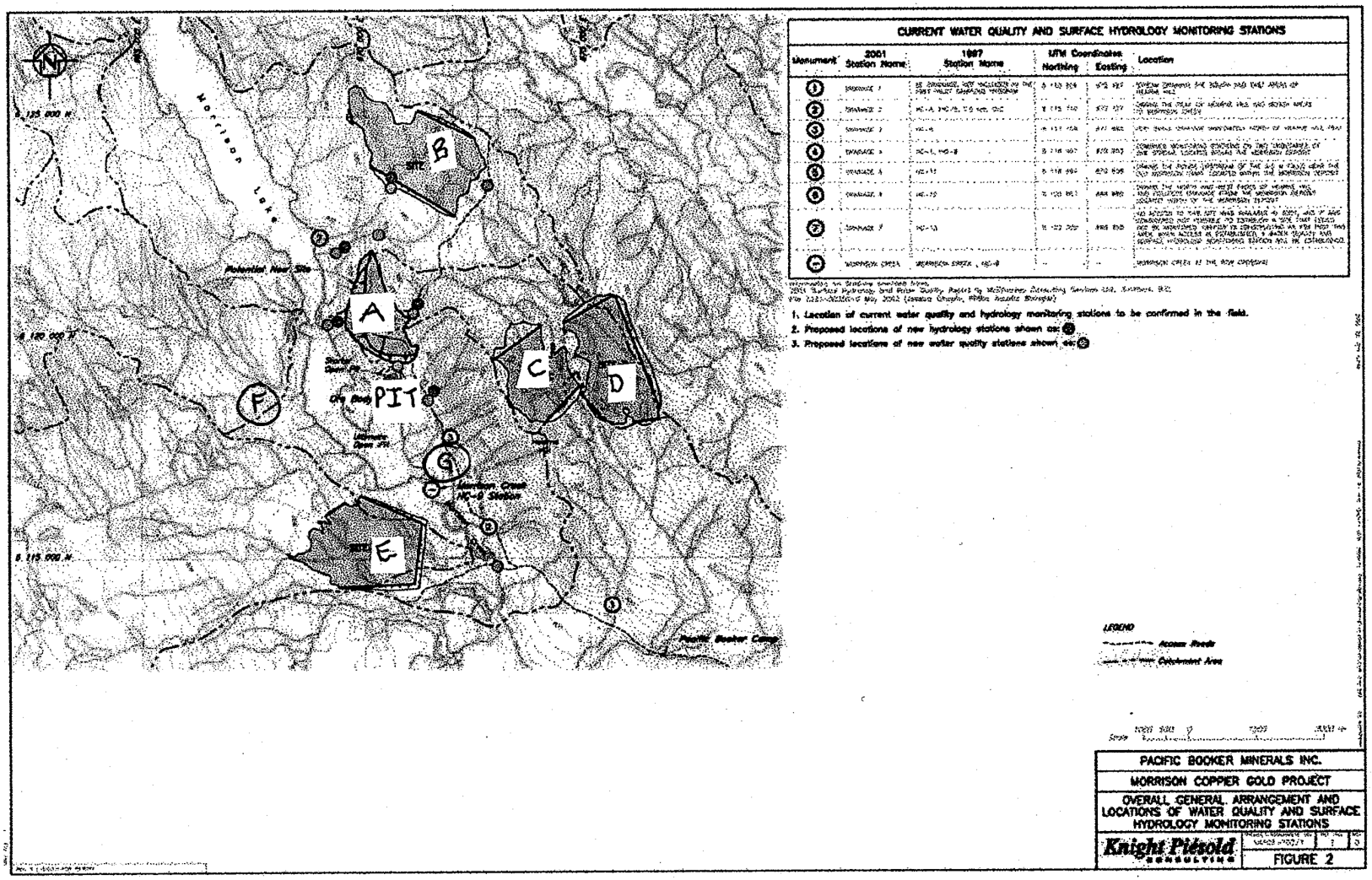
ITEM No.	DESCRIPTION	ACTION BY	DUE DATE
1	Current Waste Storage Criteria: - 104 Mt 0.445% Cu Ore - 30 Mt "Low Grade" Ore - 100 Mt Waste Rock - Mill production 36,000 tpd - 11-13 year mine life	Info	
2	ARD Summary: - 100 samples collected so far; 300 more samples to be collected. - Existing data show sulphur ranging from ~~0.5% to 3.0~~%<0.01%S to 2.4%S. - 5 humidity cell tests have been in progress for about 1 year. Discharge is still neutral. - Neutral ML will need consideration. Potential metals of concern (copper, selenium, arsenic) - Current data suggests 40% of waste will be NAG, but it is not clear if this can easily be separated from the PAG waste.	Info	
3	Block modeling is needed to determine the schedule of PAG and NAG waste removal from the pit.	J. Nilsson	Jan-Feb 2007
4	Characterize tailings geochemistry using samples from lock cycle tests.	Wardrop	Jan-Feb 2007
5	Aquatic habitat in Morrison Lake, Babine Lake and Morrison River is an important factor for consideration in the site selection process. Fish have not been detected in Booker or Ore Lakes.	Info	
6	First Nations Summary - The Babine Lake Nation (Chief Betty Patrick) has been identified as having interests in the project area. - PBM have held meetings with this group. - Concerns expressed by First Nations: mercury levels in fish, cyanide usage [note: the use of cyanide is not in the current process plans]. - Preference is for a site that drains to the East.	Info	
7	Note: Geochemical and water quality testing should be conducted to adequate detection limits for the intended purpose.	Info	

8	Main baseline environmental work remaining: - ML/ARD - Hydrogeology - Archaeology Evaluation of wildlife surveys in progress. Main species of concern: grizzly bear and moose.	Rescan	Spring 2007
9	Transmission line access still to be determined. Baseline environmental work has not been done.	Info	
10	Transportation route from site for concentrate has not been finalized.	Info	
11	Summary of available technologies/options for Waste Rock: - Covers: Able to reduce infiltration but not prevent ARD. May be appropriate for NAG waste rock, reducing neutral ML. - Temporary waste dumps for later replacement in the flooded pit: This will depend on the time for onset of ARD (to be determined). - PAG waste rock needs to be stored with tailings or in flooded pit. Separate dump not recommended. - Bonding for Low Grade Ore stockpile may affect feasibility. - There is potential to end one pit area before the entire pit is complete. This could allow some replacement of waste rock to take place before the end of mine life.	Info	
12	Summary of available technologies/options for Tailings: - Thickening: reduces water in the impoundment; affects pumping cost. - Paste tailings: not recommended. - Note: there will be 2 streams of tailings, ~90% rough scavenger tailings and ~10% clean scavenger tailings. Properties should be similar to HVC or Huckleberry. - Desulphurization: it is not currently clear if this is possible. May cost ~$0.10/tonne, if possible. - If the tailings are NAG, cycloning for use as a construction material will be considered.	Info	
13	Site energy costs estimated at 4 cents/kW-hr.	Info	
14	Alternative dam geometries will be checked for Site B (in particular Southeast abutment).	KCBL	Dec 2006

15	Overview photos from site will be sent to KCBL	Rescan	Nov 2006
16	An approximate cost of $0.50/tonne has been estimated for haulage to Site B.	Info	
17	Review plant-site geotechnical information to identify unfavourable conditions.	KCBL	Nov. 2006
18	Consider a diffuser in Morrison Lake for neutral drainage and seepage.	KCBL	Dec 2006
19	Completion of Feasibility Study (note: schedule ties closely to metallurgical testing)	Wardrop	Jul-Dec 2007
20	Continue baseline environmental work.	Rescan	Summer 2007
21	Completion of EIA.	Rescan	Late 2007
22	Site Visit scheduled for November 20.	Info	
23	Review available hydrology data (2 years of flow data from 5 drainages on site may be available)	KCBL/ Rescan	Nov 2006
24	There is no water treatment in the current Wardrop plan.	Info	
25	Provide a section on Waste Management for the Feasibility Study.	KCBL	Jul-Dec 2007
26	Provide available AutoCAD data for site area to all groups. ***(Done Nov. 8)***	Wardrop	Nov 2006
27	Review available geotechnical/geological data from open pit study.	T. Jibiki/ C. Rouse	Nov 2006
28	A summary of potential waste management facilities and discussion points is provided in Table 1.	Info	
29	Review and update screening study for the sites A, B, C, E, F and G, and Option 1 (see Table 1)	KCBL	Nov 2006

Table 1 – Summary of Waste Facility Concepts and Discussion

Option	Description	Concept	Advantages	Disadvantages
Site A	North Side-hill	All tailings and waste rock in Site A; dam shells of waste rock.	- Near open pit; - Lower pumping head (60m)	- Height of dam approx. 170 m; - Toe in Booker Lake (stability issues); - Proximity to Morrison Lake; - Environmental/Fish habitat issues.
Site B	North Plateau	All tailings and waste rock in Site B; dam shells of waste rock/borrow materials.	- Good storage efficiency;	- Distance and elevation gain from open pit. (~4 km) - Large terrestrial footprint. - Larger catchment area (1660 ha)
Site C	West Hearne Hill	All tailings and waste rock in Site C; dam shells of waste rock.	- Storage efficiency	- Distance and elevation gain from open pit. - Loss of stream habitat
Site D	East Hearne Hill	All tailings and waste rock in Site D; dam shells of waste rock.		- Distance and elevation gain from open pit. - HADD issue/ loss of lake
Site E	South Shore	All tailings and waste rock in Site E; dam shells of waste rock.	- Good storage efficiency; - Similar elevation to open pit.	- Distance from open pit; - Loss of fish habitat - Large catchment; Creek crossing.
Site A+B	Combination	Tailings Yr 1-3 in Site B; Remaining tailings and all waste rock in Site A.	- W.R. near open pit; - Site B storage efficiency	- Double site preparation, seepage collection, environmental risk, etc.
Site AB1 **Site AB2** **Site AB3**	Combination	Fine tailings and sulphides in Site B; Waste rock and cycloned/desulphurized coarse tailings in Site A.	- Site B storage efficiency.	- Cost of cycloning and desulphurizing coarse tailings. - Storage of PAG Waste Rock “above ground”
Option 1		- Cycloned Sand tailings in dam shells	- Reduce storage needs.	- Cost of cycloning and potential desulphurizing.
Site F	West Shore	- Across Morrison Lake from Pit	- Potential storage efficiency	- Crossing Lake Morrison
Site G	South Side-hill	- Side-hill impoundment South of Pit.	- Near Open Pit	- KCBL to check storage efficiency.


CURRENT WATER QUALITY AND SURFACE HYDROLOGY MONITORING STATIONS
Monument
2001 Station Name
1997 Station Name
UTM Coordinates Northing
Easting
Location
Morrison Creek
Potential Road Site
PIT
A
B
C
D
E
F
G
1. Location of current water quality and hydrology monitoring stations to be confirmed in the field.
2. Proposed locations of new hydrology stations shown as:
3. Proposed locations of new water quality stations shown as:
LEGEND
Access Roads
Catchment Area
PACIFIC BOOKER MINERALS INC.
MORRISON COPPER GOLD PROJECT
OVERALL GENERAL ARRANGEMENT AND LOCATIONS OF WATER QUALITY AND SURFACE HYDROLOGY MONITORING STATIONS
Knight Piésold CONSULTING
FIGURE 2

Jibiki, Terence

From: Jibiki, Terence
Sent: Thursday, December 07, 2006 9:49 PM
To: Mike Petrina
Cc: Rolf Schmitt; McLeod, Harvey
Subject: Site Alternative Comparison

Attachments: Site Layout-Figure1-061207.doc; SiteSummaryTable1-061207.xls; ComparisonSummaryTABLE 2-061207.doc

Please see the attached site alternative comparison Tables 1 and 2 for a summary of the site comparison for the Morrison Copper/Gold Waste Management Facility, in preparation for Feasibility level design. The site layouts are shown together on Figure 1. Please review the tables and figure to assist in our discussion arranged for Tuesday December 12.

In consideration of the alternative sites, the following storage criteria were assumed:

- 140 Mt Cu Ore (equal volume of tailings);
- 140 Mt Waste Rock
  - 70% stored in combined waste facility (98 Mt);
  - 30% stored elsewhere (surface or pit backfill) (42 Mt);
- 1.6 t/m3 in-place tailings density;
- 2.0 t/m3 in-place waste rock density; and
- Total storage volume (136 Mm3).

A typical dam section of 2.5H:1V downstream slope, 2H:1V upstream slope, 10 m crest width and 5 m freeboard was assumed for new Sites F to H, similar to design sections for Sites A and B (Knight-Piesold 2004). Sites C and E arrangements have been adopted from previous reports (Knight Piesold 2002), however a revised embankment volume was estimated for Site E to accommodate the larger design storage volume.

Please let me know if any of the tables require clarification.

Regards,
Terence


Site ut-Figure1-061207.c


SiteSummaryTable1 -061207.xls (...


ComparisonSummar yTABLE 2-06120...

Terence Jibiki, M.Eng., E.I.T.
Geotechnical Engineer, Mining Environmental Group
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Pacific Booker Minerals Ltd.
Morrison Copper/Gold Project
Site Alternative Study

TABLE 1 - Summary of Comparable Quantities

Revision 1 (Site E volume and NPV calculation)

February 19, 2007

280 M Tonnes Pit (140 Mt Ore, 140 Mt Waste) (Tailings Density 1.6 t/m3; WR Density 2.0t/m3)

	DESCRIPTION	Units	Site A	Site B	Site C	Site E	Site F	Site G	Site H
1	Watershed Catchment Area	ha	1,907	1,972	1,468	5,243	2,873	1,933	5,243
2	Disturbance Area	ha	270	537	210	422	440	278	425
3	Diverted Catchment Area	ha	1,258	444	34	4,742	1,984	296	1,564
4	Lake Disturbance Area	ha	0	34	11	-	23	-	62
5	Number of Lakes Disturbed / Wetlands Disturbed		0 / 0	3 / 8	4 / 5	0 / 3	1 / 5	0 / 0	2 / 4
6	Are there fish in the lake?	Yes/No	-	No	Yes	No	Yes	-	Yes
7	Total Stream Length Disturbance (Fish Habitat Length)	km	3.8 (1.5)	8.3 (0)	3.3 (1.5)	9.0 (2.7)	15.6 (6.6)	6.1 (0)	10.3 (3.5)
8	Stream Crossings		2	2	0	1	2	3	3
9	Final Crest Elevation	m	910	1007	1300	800	900	895	915
10	Final Embankment Height	m	165	107	160	60	100	160	65
11	Capability for Handling Increased Reserves	(high/med/low)	low	med	low	high	high	low	high
12	Elevation Difference Between Orebody (800m) and Facility Crest	m	110	207	500	0	100	95	115
13	Total Storage Volume	Mm3	92	130	105	145	133	128	134
14	Embankment Volume	Mm3	81	17	31	32	14	116	14
15	Ratio of Storage to Embankment Volume		1.1	7.6	3.4	4.5	9.7	1.1	9.7
16	Length of Diversion Ditches	km	7.1	1.5	2.7	3.8	14.2	6.9	10.6
17	Complexity of Long-Term Surface Water Control Structures	(high/med/low)	high	low	low	high	high	high	high
18	Length of Access Road or Haul Road (one way)	km	2.3	4.5	5.0	4.0	8.4	2.8	7.8
	Pumping Power (P = 10 Q H; Q=36k tpd @50% = 0.5655 m3/sec)	kW/hr	622	1171	2828	0	566	537	650
	Annual Pumping Cost (@ $0.04/kW-hr)	M$	$ 0.022	$ 0.041	$ 0.099	$ -	$ 0.020	$ 0.019	$ 0.023
	BASIC COST COMPARISON								
	Pumping Cost - Mine Life (12 years)	M$	$ 0.262	$ 0.492	$ 1.189	$ -	$ 0.238	$ 0.226	$ 0.273
	Haulage Cost (~$0.15/t-km; 98 Mt)	M$	$ 33.810	$ 66.150	$ 73.500	$ 58.800	$ 124.068	$ 41.160	$ 114.219
	Dam Construction Cost (Avg~$1.50/m3)	M$	$ 121.500	$ 25.500	$ 45.900	$ 48.000	$ 20.730	$ 173.595	$ 20.700
	Water Management	M$							
	~Fish Compensation (Requires Rescan Input)	M$							
	~Environmental Mitigation (Requires Rescan Input)	M$							
	Total Waste Transportation & Fill Placement Cost	**M$**	**156**	**92**	**121**	**107**	**145**	**215**	**135**
	Potential Cost Range	M$	70-270	90-120	90-170	75-154	110-170	90-380	120-180
	Net Present Value Calculation								
	Starter Dam Volume (for 2 years storage)	Mm3	18	4	-	7	5	-	-
	Estimated Capital Cost ($3/m3)	M$	54	12	-	21	15	-	-
	Estimated Annual Operating Cost (Assuming 12 years)	M$	8	7	-	7	11	-	-
	Net Present Value (Discount Rate 10%)	**M$**	**112**	**58**	**-**	**70**	**89**	**-**	**-**

Measurement Explanations:

1	Watershed Catchment Area	The area of the entire watershed area including the impoundment and dam areas.
2	Disturbance Area	The footprint area of the impoundment and dam
3	Diverted Catchment Area	The catchment area upstream of the site from which water will possibly discharge into the impoundment.
4	Lake Disturbance Area	The total area of the lakes that will be covered or disturbed by the footprint of the dam and impoundment.
5	Number of Lakes Disturbed / Wetlands Disturbed	The number of individual lakes or wetlands under the Disturbance Area.
6	Are there fish in the lake?	Based on fish sampling studies summarized by Rescan.
7	Total Stream Length Disturbance (Fish Bearing Length)	The total length of the streams that are covered or disturbed by the footprint of the dam and impoundment.
8	Stream Crossings	The number of streams that exit downstream of the site but must have originated upstream and ran through the site.
9	Final Crest Elevation	Final elevation of the dam.
10	Final Embankment Height	The difference between the base of the dam slope with the lowest elevation and the final crest elevation.
11	Capability for Handling Increased Reserves	The potential to increase the impoundment size in the future, generally by raising the dam(s).
12	Elevation Difference Between Orebody (800m) and Facility Crest	Difference in elevation (has impacts on waste transportation costs).
13	Total Storage Volume	Calculated storage volume within the impoundment as shown.
14	Embankment Volume	Calculated dam embankment volume based on 2H:1V upstream slopes, and 2.5H:1V downstream slopes.
15	Ratio of Storage to Embankment Volume	No.13 divided by No.14.
16	Length of Diversion Ditches	Approximate length of diversion ditches required to divert water around the impoundment.
17	Complexity of Long-Term Surface Water Control Structures	Overall complexity considering topography, volume of water and fish habitat.
18	Length of Access Road / Haul Road (one way)	
	Potential Cost Range	Considers potential for: dam section of all waste rock/ all borrow, bridge over lake, 140 Mt WR to facility
		Values directly affecting Cost Comparison

TABLE 2 – Comparison Summary

SITE	PRIMARY ADVANTAGES	PRIMARY DISADVANTAGES	RISKS/ OPPORTUNITIES
Site A	- Low pumping head - Short haul distance	- Fish habitat disturbance - Large dam fill quantity - Large diverted catchment - Low potential to expand facility	- Proximity to Morrison Lake may result in costly long term seepage control. - If NAG waste rock is not available, fill borrow volumes may be prohibitive.
Site B	- Morrison Lake seepage control - Storage efficiency - Diversion/water management	- High head - Affects second watershed (Nakinilerak Lake) - Large terrestrial footprint	
Site C		- No significant advantage over Site B	
Site E	- Low pumping cost - Downhill haulage cost - High storage efficiency - Low dam - Potential to expand	- Large catchment area/major diversion - Fish compensation - Creek crossing - Potentially poor foundation conditions	- The location may be prone to soft foundation conditions.
Site F	- High storage efficiency - Potential to expand	- Long over-land haul distance. - Creek crossing.	- Bridge or conveyor over lake could reduce W.R. haul costs, but increase capital cost.
Site G	- Near pit	- No significant advantages over Site A.	
Site H	- Small dam - Potential to expand	- Lake habitat - Water management - Very little advantage over Site E	

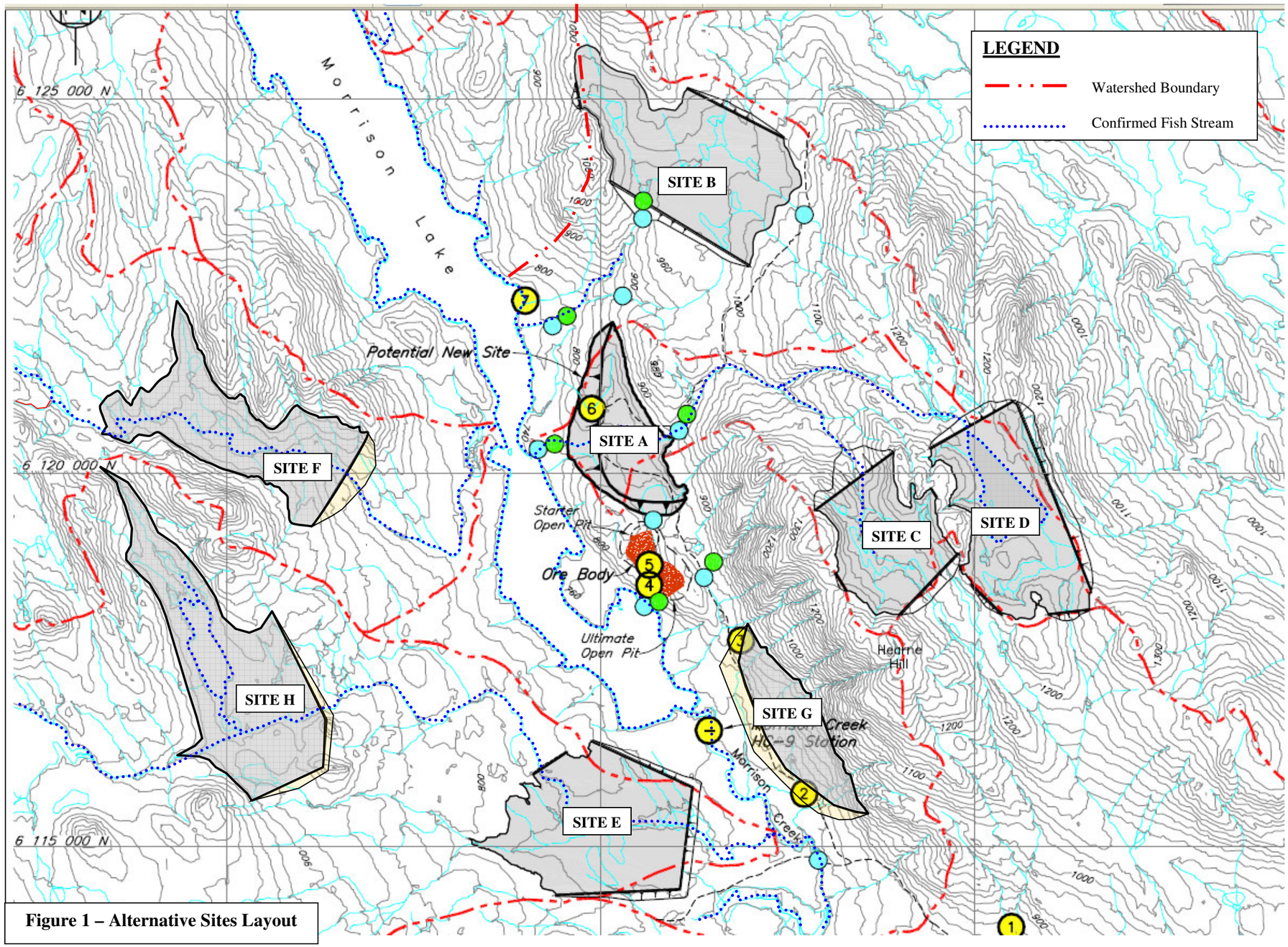


Figure 1 – Alternative Sites Layout

Morrison Copper/Gold Project - Waste Management Facility February 27, 2007

OPINION OF PROBABLE COST - Preliminary Design **DRAFT**

Site B - Impervious Central Till Core

ITEM	DESCRIPTION	COMMENTS	UNIT	UNIT PRICE ($ CAD)	STARTER DAM - 1 yr life El. 974 m Quantity	STARTER DAM - 1 yr life El. 974 m Cost ($ CAD)	ULTIMATE DAM El. 1011 m Quantity	ULTIMATE DAM El. 1011 m Cost ($ CAD)	TOTAL Quantity	TOTAL Cost ($ CAD)
1.0	**Site Preparation**									
	Clear Impoundment	Impoundment Area	m^2	$0.15	1,425,000	$213,750	4,448,000	$667,200	5,873,000	$880,950
	Clear, grub, strip and stockpile topsoil	Dam footprint	m^2	$2.50	198,000	$495,000	675,000	$1,687,500	873,000	$2,182,500
	Excavate unsuitable soils	Further excavation of specific areas	LS	$25,000.00	0.6	$15,000	0.4	$10,000	1.0	$25,000
	Proof Roll Embankment Footprint		m^2	$0.25	198,000	$49,500	675,000	$168,750	873,000	$218,250
	Borrow Area - Clear/Grub, stockpile topsoil, ditches	Till borrow (avg. 2 m deep)	m^2	$2.75	141,000	$387,750	489,000	$1,344,750	630,000	$1,732,500
	New Roads on dam abutments		m	$100.00	2,334	$233,400	5,236	$523,600	7,570	$757,000
	New mine haul road	Haul Road	m	$400.00	3,750	$1,500,000	2,700	$1,080,000	6,450	$2,580,000
	Site dewatering, sediment control, and drainage		LS	$100,000.00	0.8	$80,000	0.2	$20,000	1.0	$100,000
					Subtotal	**$2,974,400**	**Subtotal**	**$5,501,800**	**Subtotal**	**$8,476,200**
2.0	**Dam**									
	Excavate and Fill Cutoff Trench	Assume 3 m x 5 m	m^3	$15.00	34,500	$517,500	52,400	$786,000	86,900	$1,303,500
	General Fill (from borrow source)	Northwest Dam Shells, borrow from <2 km	m^3	$7.50	0	$0	649,000	$4,867,500	649,000	$4,867,500
	Rock Fill (run of mine)	NAG Waste, 98% of shell (spread, compact)	m^3	$0.50	1,188,667	$594,333	11,559,353	$5,779,676	12,748,019	$6,374,010
	Rock Fill (rehandled)	2% of shell (load, haul ~500m, place, compact)	m^3	$4.00	24,259	$97,034	235,905	$943,621	260,164	$1,040,655
	Till Core	Borrow from within impoundment	m^3	$8.00	614,000	$4,912,000	1,868,000	$14,944,000	2,482,000	$19,856,000
	Granular Filter	Processed rock fill (crush and screen); 4 m-wide	m^3	$18.00	227,000	$4,086,000	586,000	$10,548,000	813,000	$14,634,000
	Transition (run of mine)	Select rock fill zone, 10 m-wide	m^3	$0.75	332,000	$249,000	1,465,000	$1,098,750	1,797,000	$1,347,750
	Incremental Haul Cost	Hauling waste rock from south to north dam.	t·km	$0.15	0	$0	6,604,200	$990,630	6,604,200	$990,630
	Waste rock disposal upstream of dam	spread	m^3	$0.15	3,215,000	$482,250	47,785,000	$7,167,750	51,000,000	$7,650,000
	Allowance for seepage mitigation		LS	$0.00		$0		$0		$0
					Subtotal	**$10,938,117**	**Subtotal**	**$47,125,927**	**Subtotal**	**$58,064,044**
3.0	**Geomembrane**									
	Sand bedding under HDPE	processed (crushing and screening)	m^3	$18.00	0	$0	0	$0	0	$0
	HDPE - Supply and Install	80 mil HDPE	m^2	$12.00	0	$0	0	$0	0	$0
	Anchoring System		LS	$100,000.00	0.00	$0	0.00	$0	0	$0
					Subtotal	**$0**	**Subtotal**	**$0**	**Subtotal**	**$0**
4.0	**Water Management**									
	Diversion Ditches	Excavate and side-cast	m	$100.00	0	$0	0	$0	0	$0
	Seepage Collection Ditch	Excavate and side-cast	m	$20.00	2,000	$40,000	4,100	$82,000	6,100	$122,000
	Seepage Collection Pond		LS	$200,000.00	1	$200,000	2	$400,000	3	$600,000
	Seepage return pump and barge	(average ~5-10 l/s)	LS	$250,000.00	1	$250,000	2	$500,000	3	$750,000
	Seepage return pipeline	6-inch Steel	m	$750.00	700	$525,000	1,000	$750,000	1,700	$1,275,000
	Mill Make-up Water Pump Station & Pipeline	Pump Barge and pipeline (~500 m3/hr)	LS	$2,000,000.00	1	$2,000,000	0	$0	1	$2,000,000
					Subtotal	**$3,015,000**	**Subtotal**	**$1,732,000**	**Subtotal**	**$4,747,000**
5.0	**Tailings Delivery**									
	Tailings Pump Station	Estimate	LS	$4,000,000.00	1	$4,000,000	0	$0	1	$4,000,000
	Tailings Delivery Pipeline	X mm Diam. HDPE (0.48 m3/s)	m	$500.00	3,750	$1,875,000	0	$0	3,750	$1,875,000
	Tailings Booster Pump Station		LS	$4,000,000.00	2	$8,000,000	0	$0	2	$8,000,000
	Tailings Distribution Pipeline with off-takes	X mm Diam. HDPE (max 0.48 m3/s)	m	$400.00	2,334	$933,600	5,236	$2,094,400	7,570	$3,028,000
	Water Reclaim Barge and Pump	(average flow 0.35 m3/s)	LS	$2,000,000.00	1	$2,000,000	0	$0	1	$2,000,000
	Water Reclaim Pipeline	X mm Diam. HDPE pipe (0.35 m3/s)	m	$300.00	6,900	$2,070,000	0	$0	6,900	$2,070,000
	Pipeline maintainance and upgrades		%/yr	10%	1	$1,887,860	14	$1	15	$31,459,500
					Subtotal	**$20,766,460**	**Subtotal**	**$2,094,401**	**Subtotal**	**$52,432,500**
6.0	**Closure**									
	Topsoil Cover	0.5 m thickness on outer dam slopes	m^3	$6.00	0	$0	374,174	$2,245,041	374,174	$2,245,041
	Erosion Protection		LS	$100,000.00	0	$0	1	$100,000	1	$100,000
	Closure Spillway		LS	$500,000.00	0	$0	1	$500,000	1	$500,000
	Diversion Ditches	Excavate and side-cast	m	$100.00	0	$0	2,888	$288,800	2,888	$288,800
	Reclamation	Vegetation on dam slopes	m^2	$0.75	0	$0	748,347	$561,260	748,347	$561,260
	Saturated Rockfill Cover	NAG Rockfill - 200m wide, 1 m thick	m^3	$6.50	0	$0	1,074,192	$6,982,248	1,074,192	$6,982,248
					Subtotal	**$0**	**Subtotal**	**$10,677,349**	**Subtotal**	**$10,677,349**
7.0	**Monitoring and Engineering**									
	Instrumentation		LS	$300,000.00	0.3	$100,000	0.7	$200,000	1	$300,000
	Engineering and QA/QC - Initial			7.5%		$2,827,048				$2,827,048
	Engineering and QA/QC - On-going			5.0%				$3,356,574		$3,356,574
					Subtotal	**$2,927,048**	**Subtotal**	**$3,556,574**	**Subtotal**	**$6,483,622**
8.0	**Other**									
	Mobilization/Demobilization - Starter Dam			7.5%		$2,827,048				$2,827,048
	Mobilization/Demobilization - On-going			5.0%				$3,356,574		$3,356,574
					Subtotal	**$2,827,048**	**Subtotal**	**$3,356,574**	**Subtotal**	**$6,183,622**
					TOTAL	**$43,448,074**	**TOTAL**	**$74,044,625**	**TOTAL**	**$147,064,338**
9.0	**Contingency**									
	Recommended Contingency			25%		$10,862,018		$17,672,013		$35,220,179
					TOTAL + CONTINGENCY	**$54,310,092**		**$91,716,638**		**$182,284,517**

Based on:

1 10 m-wide till core, 4 m-wide filter, 10 m-wide Transition
2 30,000 tpd mill production
3 Total Pit - 170 Mt ore, 147 Mt Waste
4 30% of Waste is NAG
5 Maximum 20 Mm3 NAG rockfill available

Morrison Copper/Gold Project - Waste Management Facility February 27, 2007

OPINION OF PROBABLE COST - Preliminary Design Level **DRAFT**

Site E - Impervious Central Till Core

ITEM	DESCRIPTION	COMMENTS	UNIT	UNIT PRICE ($ CAD)	STARTER DAM - 1 yr life El. 974 m Quantity	STARTER DAM - 1 yr life El. 974 m Cost ($ CAD)	ULTIMATE DAM El. 1011 m Quantity	ULTIMATE DAM El. 1011 m Cost ($ CAD)	TOTAL Quantity	TOTAL Cost ($ CAD)
	Site Preparation									
	Clear Impoundment	Impoundment Area	m^2	$0.15	2,624,000	$393,600	12,376,000	$1,856,400	15,000,000	$2,250,000
	Clear, grub, strip and stockpile topsoil	Dam footprint and borrow areas	m^2	$2.50	316,000	$790,000	1,366,000	$3,415,000	1,682,000	$4,205,000
	Excavate unsuitable soils	Further excavation of specific areas	LS	$25,000.00	0.6	$15,000	0.4	$10,000	1.0	$25,000
	Proof Roll Embankment Footprint		m^2	$0.25	316,000	$79,000	1,366,000	$341,500	1,682,000	$420,500
	Borrow Area - Clear/Grub, stockpile topsoil, ditches	Till borrow (avg. 2 m deep)	m^2	$2.75	350,000	$962,500	1,050,000	$2,887,500	1,400,000	$3,850,000
	New Roads on dam abutments		m	$100.00	4,800	$480,000	2,200	$220,000	7,000	$700,000
	New mine haul road	Haul Road from pit to tailings dam	m	$400.00	3,400	$1,360,000	0	$0	3,400	$1,360,000
	Site dewatering, sediment control, and drainage		LS	$100,000.00	0.8	$80,000	0.2	$20,000	1.0	$100,000
					Subtotal	**$4,160,100**	**Subtotal**	**$8,750,400**	**Subtotal**	**$12,910,500**
	Dam									
	Excavate and Fill Cutoff Trench	Assume 3 m x 5 m	m^3	$15.00	64,500	$967,500	39,500	$592,500	104,000	$1,560,000
	General Fill (from borrow source)	Northwest Dam Shells, borrow from <2 km	m^3	$7.50	0	$0	200,500	$1,503,750	200,500	$1,503,750
	Rock Fill (run of mine)	NAG Waste, 98% of shells (spread, compact)	m^3	$0.50	1,747,318	$873,659	13,641,486	$6,820,743	15,388,805	$7,694,402
	Rock Fill (rehandled)	2% of shells (load, haul ~500m, place, compact)	m^3	$4.00	35,660	$142,638	282,490	$1,129,958	318,149	$1,272,596
	Till Core	borrow from avg. X km.	m^3	$8.00	1,032,000	$8,256,000	2,743,000	$21,944,000	3,775,000	$30,200,000
	Granular Filter	Processed rock fill (crushing and screening); 4 m-thick	m^3	$18.00	391,000	$7,038,000	844,000	$15,192,000	1,235,000	$22,230,000
	Transition	Select rock fill; 10 m-wide zone	m^3	$0.75	947,000	$710,250	2,110,000	$1,582,500	3,057,000	$2,292,750
	Incremental Haul Cost	Hauling waste rock from south to north dam.	t·km	$0.15	0	$0	0	$0	0	$0
	Waste rock disposal upstream of dam	spread	m^3	$0.15	3,215,000	$482,250	47,785,000	$7,167,750	51,000,000	$7,650,000
	Allowance for seepage mitigation		LS	$500,000.00	0.8	$400,000	0.2	$100,000	1.0	$500,000
					Subtotal	**$18,870,297**	**Subtotal**	**$56,033,201**	**Subtotal**	**$74,903,499**
	Geomembrane									
	Sand bedding under HDPE	processed (crushing and screening)	m^3	$18.00	0	$0	0	$0	0	$0
	HDPE - Supply and Install	80 mil HDPE	m^2	$12.00	0	$0	0	$0	0	$0
	Anchoring System		LS	$100,000.00	0.00	$0	0.00	$0	0	$0
					Subtotal	**$0**	**Subtotal**	**$0**	**Subtotal**	**$0**
	Water Management									
	Diversion Ditches	Excavate and side-cast	m	$100.00	3,247	$324,700	0	$0	3,247	$324,700
	Seepage Collection Ditch	Excavate and side-cast	m	$20.00	4,300	$86,000	2,700	$54,000	7,000	$140,000
	Seepage Collection Pond		LS	$200,000.00	1	$200,000	0	$0	1	$200,000
	Seepage return pump	(average ~5-10 l/s)	LS	$600,000.00	1	$600,000	0	$0	1	$600,000
	Seepage return pipeline	X mm diam. HDPE	m	$250.00	670	$167,500	0	$0	670	$167,500
	Mill Make-up Water Pump Station & Pipeline	None Required	LS	$2,000,000.00	0	$0	0	$0	0	$0
					Subtotal	**$1,378,200**	**Subtotal**	**$54,000**	**Subtotal**	**$1,432,200**
	Tailings Delivery									
	Tailings Pump Station	Estimate	LS	$4,000,000.00	1	$4,000,000	0	$0	1	$4,000,000
	Tailings Delivery Pipeline	X mm Diam. HDPE (0.48 m3/s)	m	$500.00	3,400	$1,700,000	0	$0	3,400	$1,700,000
	Tailings Booster Pump Station		LS	$4,000,000.00	0	$0	0	$0	0	$0
	Tailings Distribution Pipeline with off-takes	X mm Diam. HDPE (max 0.48 m3/s)	m	$400.00	4,800	$1,920,000	2,200	$880,000	7,000	$2,800,000
	Water Reclaim Barge and Pump	(average flow 0.35 m3/s)	LS	$2,000,000.00	1	$2,000,000	0	$0	1	$2,000,000
	Water Reclaim Pipeline	X mm Diam. HDPE pipe (0.35 m3/s)	m	$300.00	7,950	$2,385,000	0	$0	7,950	$2,385,000
	Pipeline maintainance and upgrades		%/yr	10%	1	$1,200,500	14	$1	15	$19,327,500
					Subtotal	**$13,205,500**	**Subtotal**	**$880,001**	**Subtotal**	**$32,212,500**
	Closure									
	Topsoil Cover	0.5 m thickness on outer dam slopes	m^3	$6.00	0	$0	855,000	$5,130,000	855,000	$5,130,000
	Erosion Protection		LS	$100,000.00	0	$0	1	$100,000	1	$100,000
	Closure Spillway		LS	$500,000.00	0	$0	1	$500,000	1	$500,000
	Diversion Ditches	Excavate and side-cast	m	$100.00	0	$0	3,637	$363,700	3,637	$363,700
	Reclamation	Vegetation on dam slopes	m^2	$0.75	0	$0	1,710,000	$1,282,500	1,710,000	$1,282,500
	Saturated Rockfill Cover	NAG Rockfill - 200m wide, 1 m thick	m^3	$6.50	0	$0	1,390,000	$9,035,000	1,390,000	$9,035,000
					Subtotal	**$0**	**Subtotal**	**$16,411,200**	**Subtotal**	**$16,411,200**
	Monitoring and Engineering									
	Instrumentation		LS	$300,000.00	0.3	$100,000	0.7	$200,000	1	$300,000
	Engineering and QA/QC - Initial			7.5%		$2,821,057				$2,821,057
	Engineering and QA/QC - On-going			5.0%				$4,106,440		$4,106,440
					Subtotal	**$2,921,057**	**Subtotal**	**$4,306,440**	**Subtotal**	**$7,227,497**
	Other									
	Mobilization/Demobilization - Starter Dam			7.5%		$2,821,057				$2,821,057
	Mobilization/Demobilization - On-going			5.0%				$4,106,440		$4,106,440
					Subtotal	**$2,821,057**	**Subtotal**	**$4,106,440**	**Subtotal**	**$6,927,497**
					TOTAL	**$43,356,212**	**TOTAL**	**$90,541,683**	**TOTAL**	**$152,024,894**
	Contingency									
	Recommended Contingency			35%		$15,174,674		$31,689,589		$53,208,713
					TOTAL + CONTINGENCY	**$58,530,886**		**$122,231,272**		**$205,233,606**

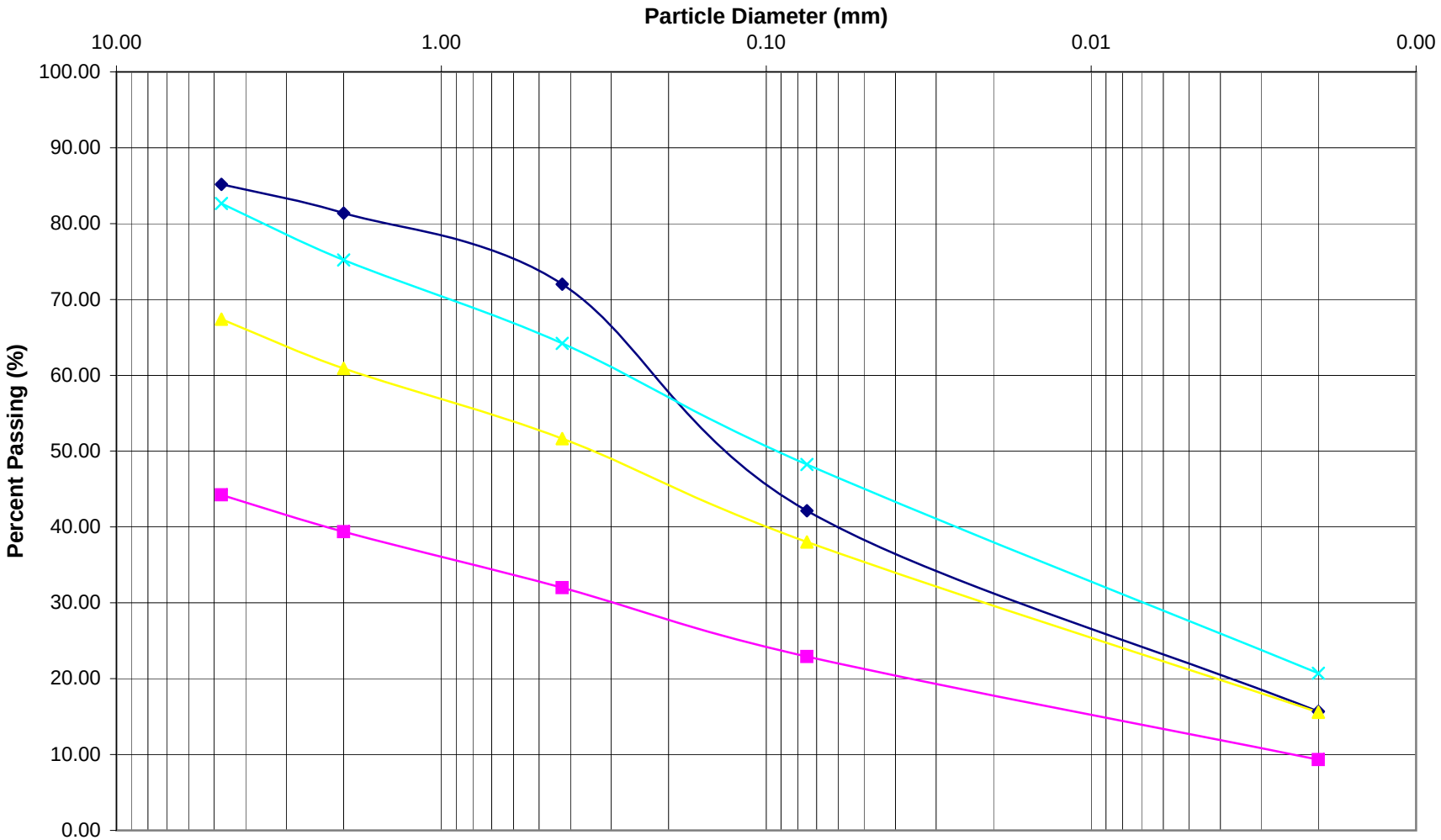
Based on:

1 10 m-wide till core, 4 m-wide filter; 10 m-wide transition
2 30,000 tpd mill production
3 Total Pit - 170 Mt ore, 147 Mt Waste
4 30% of Waste is NAG
5 Maximum 20 Mm3 NAG rockfill available

APPENDIX II

Knight Piesold Geotechnical Data (2006)

- Grains Size Distributions
- Compaction Tests
- Drill hole Logs
- Bedrock Drilling Graphs
- Field Tests
- Well Completion Details
- Test Pit Logs



Notes:
1) Data from Cantest Ltd.

PACIFIC BOOKER MINERALS INC.
MORRISON COPPER GOLD PROJECT
GEOTECHNICAL SITE INVESTIGATION
TESTPIT SAMPLES
PARTICLE SIZE DISTRIBUTIONS - PAGE 1

Knight Piésold CONSULTING

PROJECT / ASSIGNMENT NO.	REF NO.
101-00102/7	1

FIGURE 5.1

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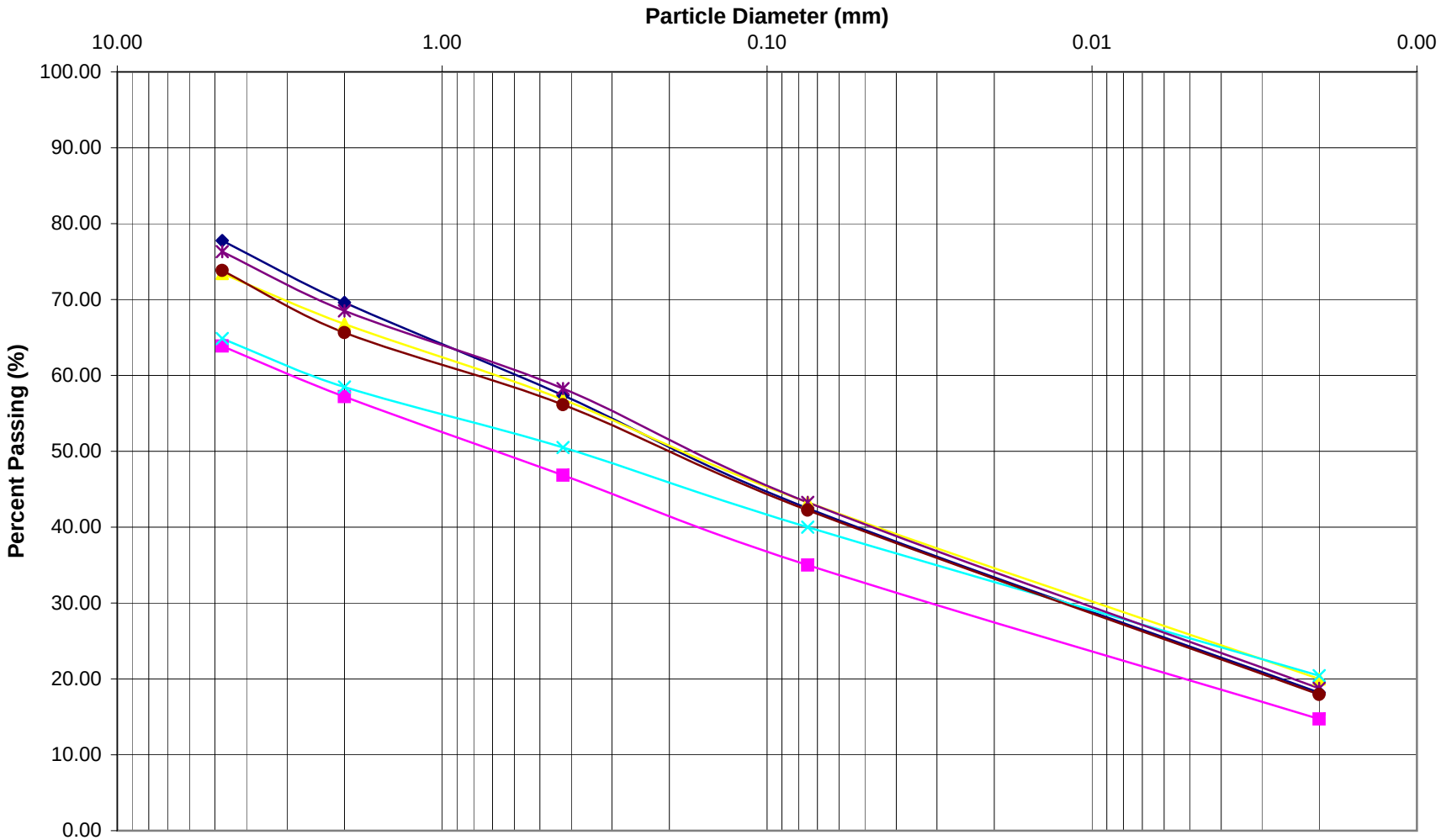

Notes:
1) Data from Cantest Ltd.

PACIFIC BOOKER MINERALS INC.
MORRISON COPPER GOLD PROJECT
GEOTECHNICAL SITE INVESTIGATION
TESTPIT SAMPLES
PARTICLE SIZE DISTRIBUTIONS - PAGE 2

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PROJECT / ASSIGNMENT NO.	REF NO.
101-00102/7	1

FIGURE 5.2

REV. 0

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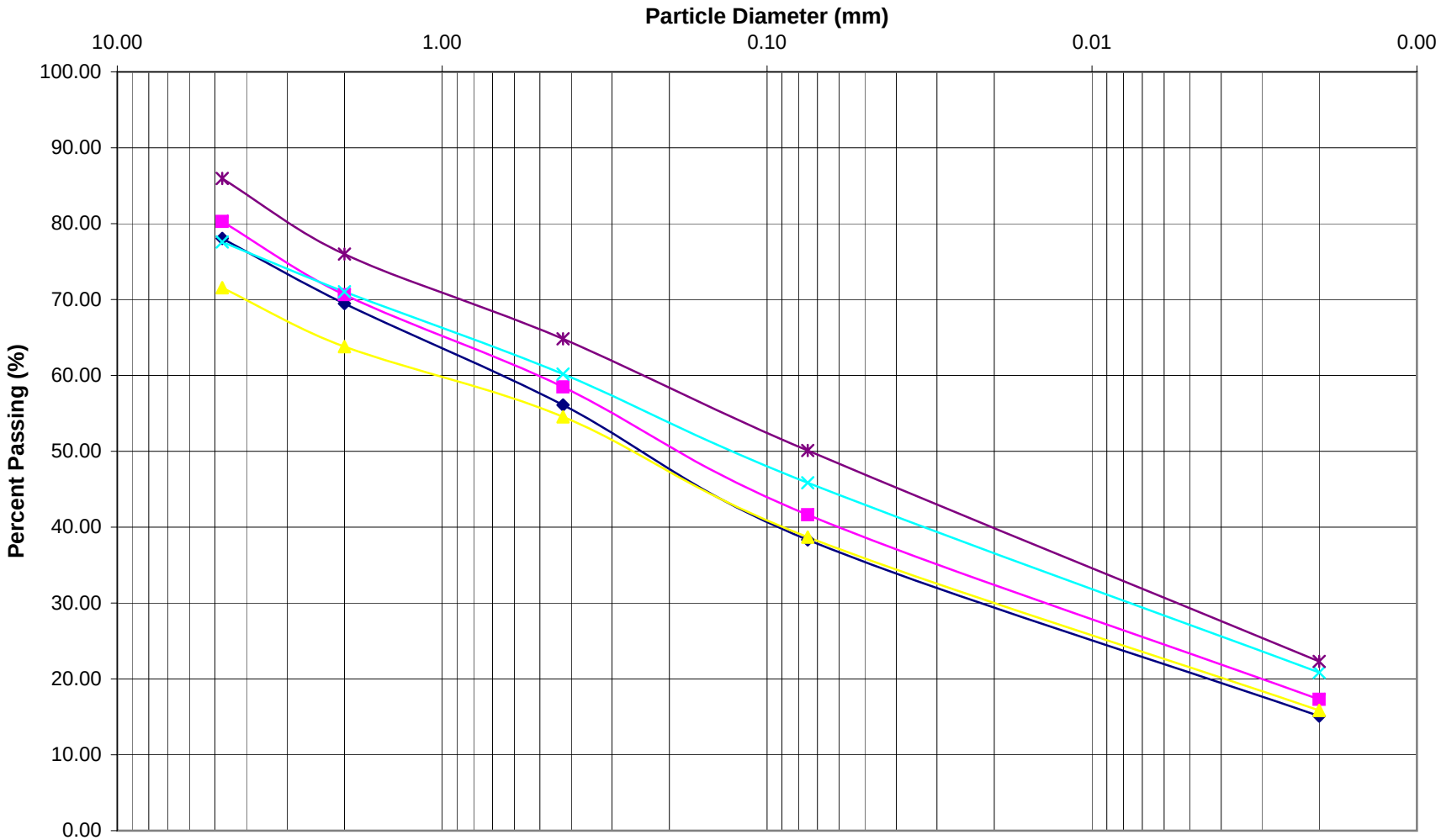

Notes:
1) Data from Cantest Ltd.

PACIFIC BOOKER MINERALS INC.
MORRISON COPPER GOLD PROJECT
GEOTECHNICAL SITE INVESTIGATION
TESTPIT SAMPLES
PARTICLE SIZE DISTRIBUTIONS - PAGE 3

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PROJECT / ASSIGNMENT NO.	REF NO.
101-00102/7	1

FIGURE 5.3

REV. 0

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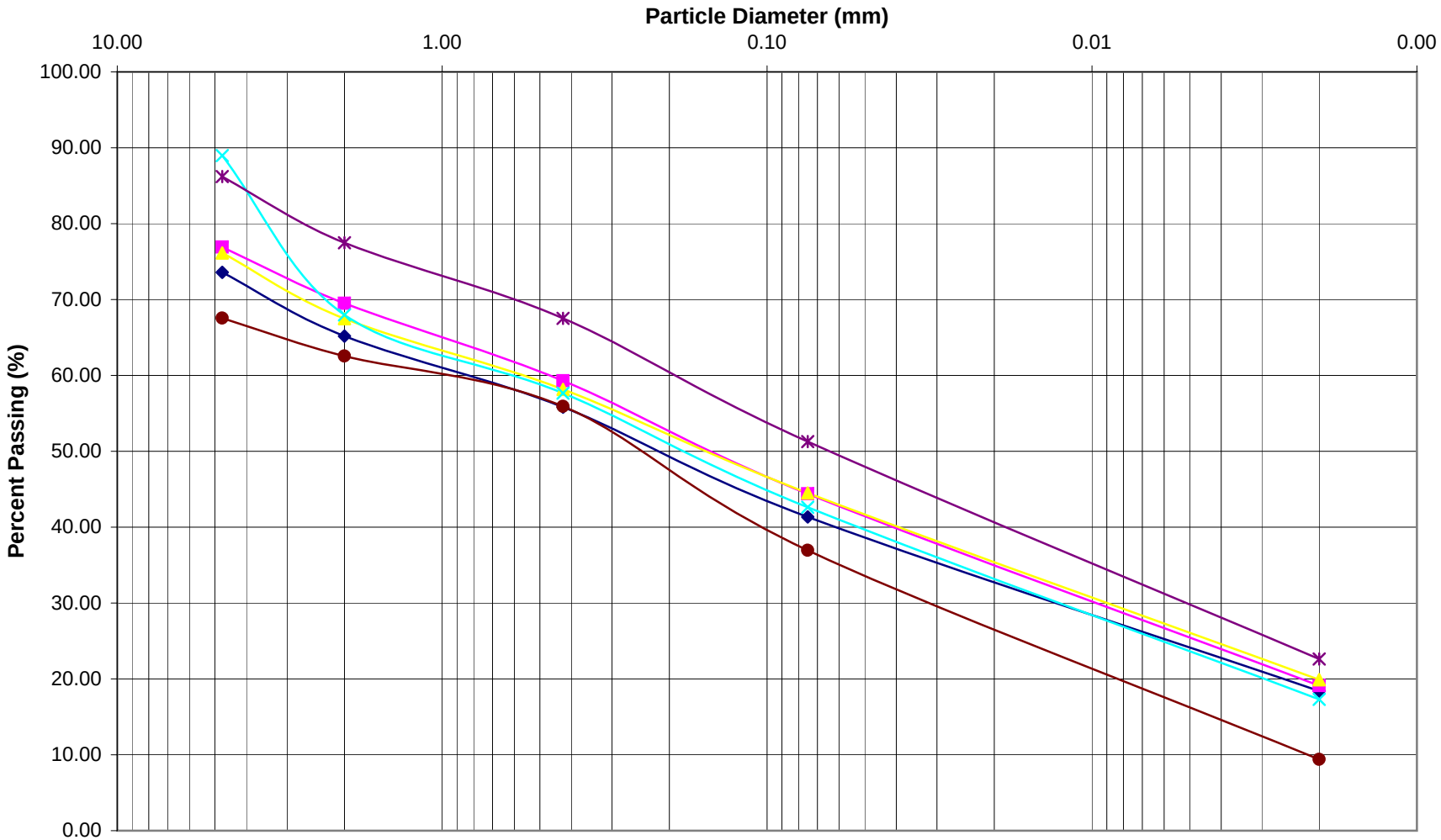

Notes:
1) Data from Cantest Ltd.

PACIFIC BOOKER MINERALS INC.
MORRISON COPPER GOLD PROJECT
GEOTECHNICAL SITE INVESTIGATION
TESTPIT SAMPLES
PARTICLE SIZE DISTRIBUTIONS - PAGE 4

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PROJECT / ASSIGNMENT NO.	REF NO.
101-00102/7	1

FIGURE 5.4

REV. 0

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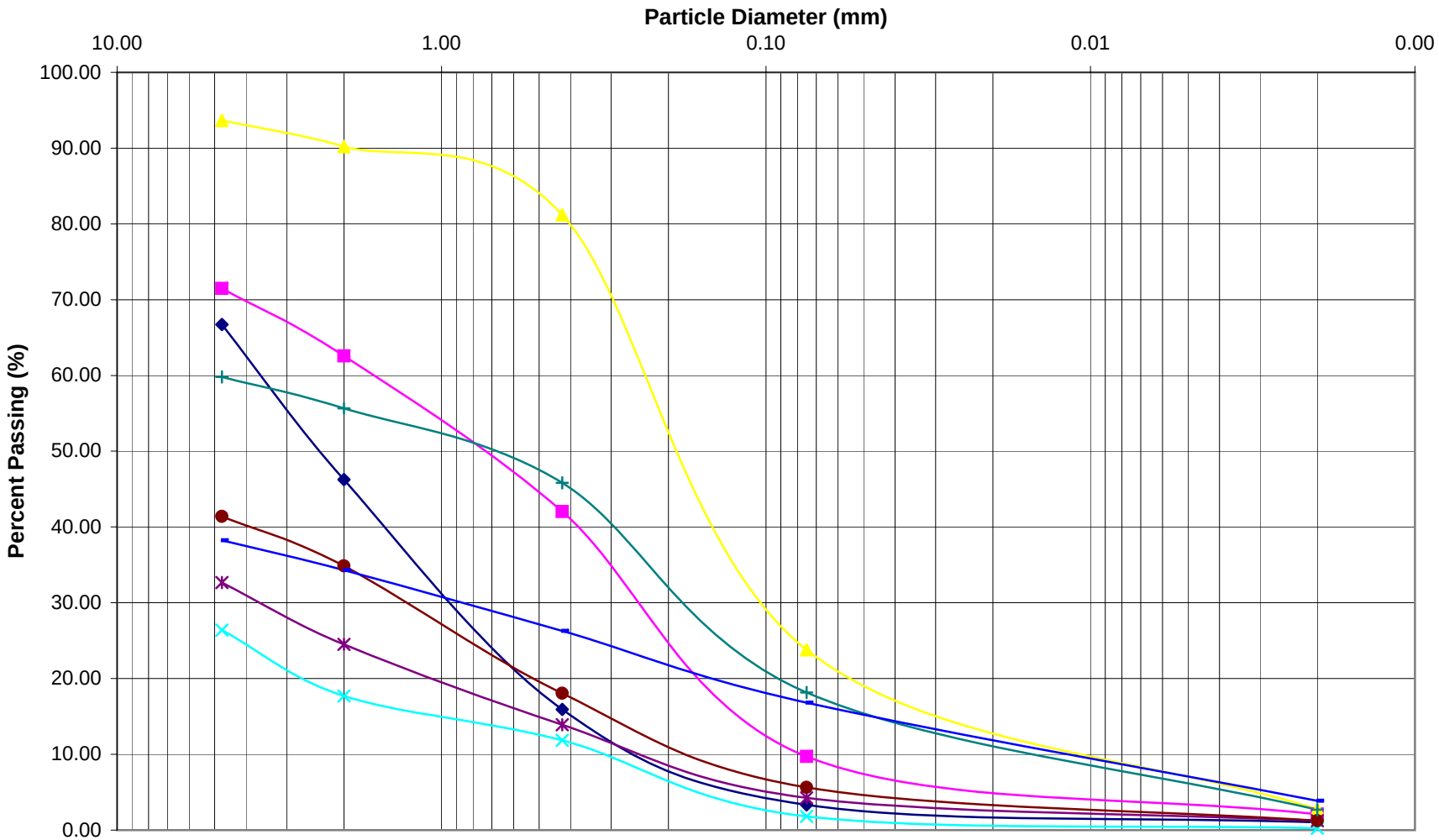

Notes:
1) Data from Cantest Ltd.

PACIFIC BOOKER MINERALS INC.
MORRISON COPPER GOLD PROJECT
GEOTECHNICAL SITE INVESTIGATION
TESTPIT SAMPLES
PARTICLE SIZE DISTRIBUTIONS - PAGE 5

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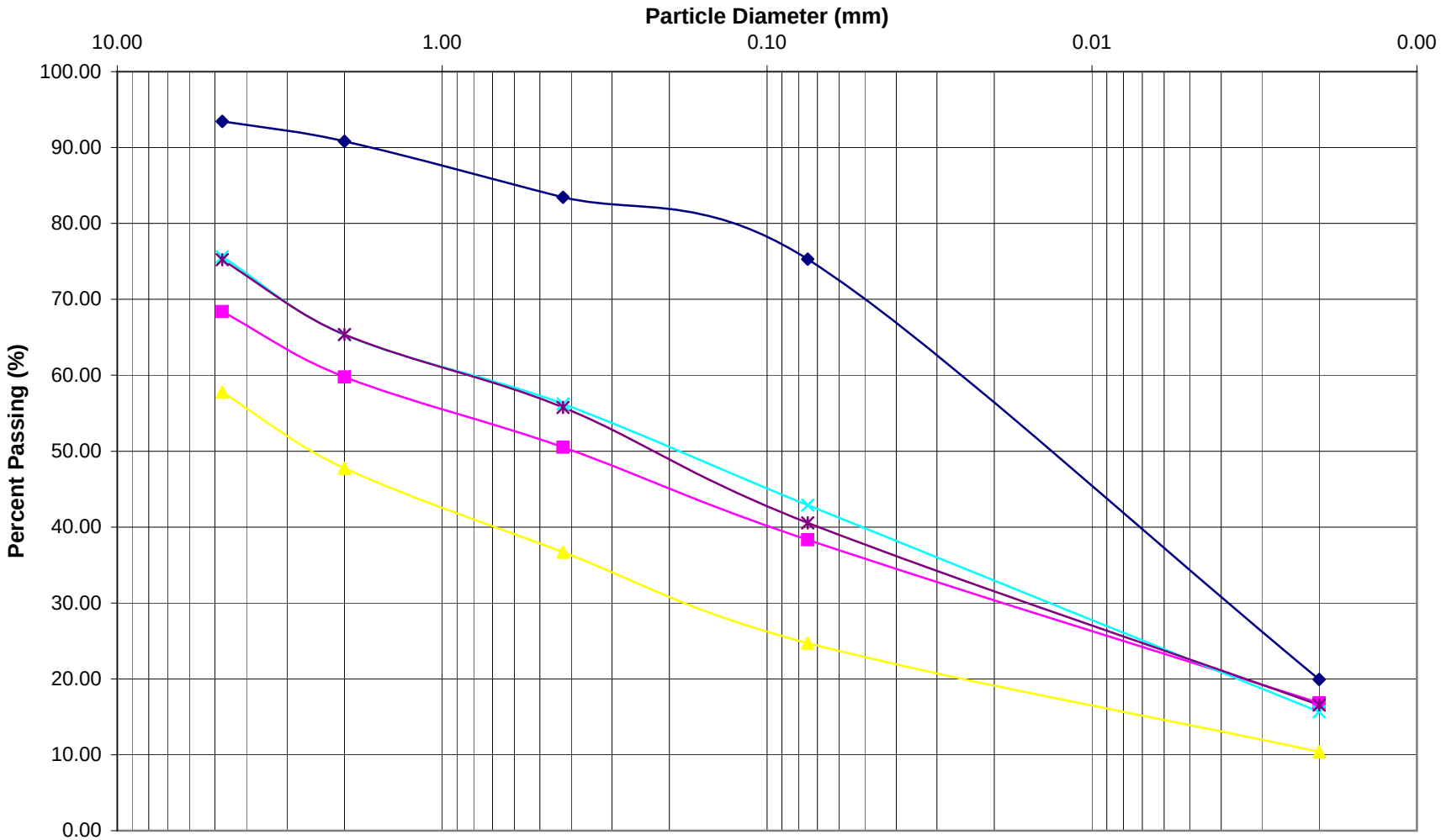
PROJECT / ASSIGNMENT NO.	REF NO.
101-00102/7	1

FIGURE 5.5

REV. 0

Rev 0 - Issued for Report



Notes:
1) Data from Cantest Ltd.

PACIFIC BOOKER MINERALS INC.
MORRISON COPPER GOLD PROJECT
GEOTECHNICAL SITE INVESTIGATION
TESTPIT SAMPLES
PARTICLE SIZE DISTRIBUTIONS - PAGE 6

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PROJECT / ASSIGNMENT NO.	REF NO.
101-00102/7	1

FIGURE 5.6

REV. 0

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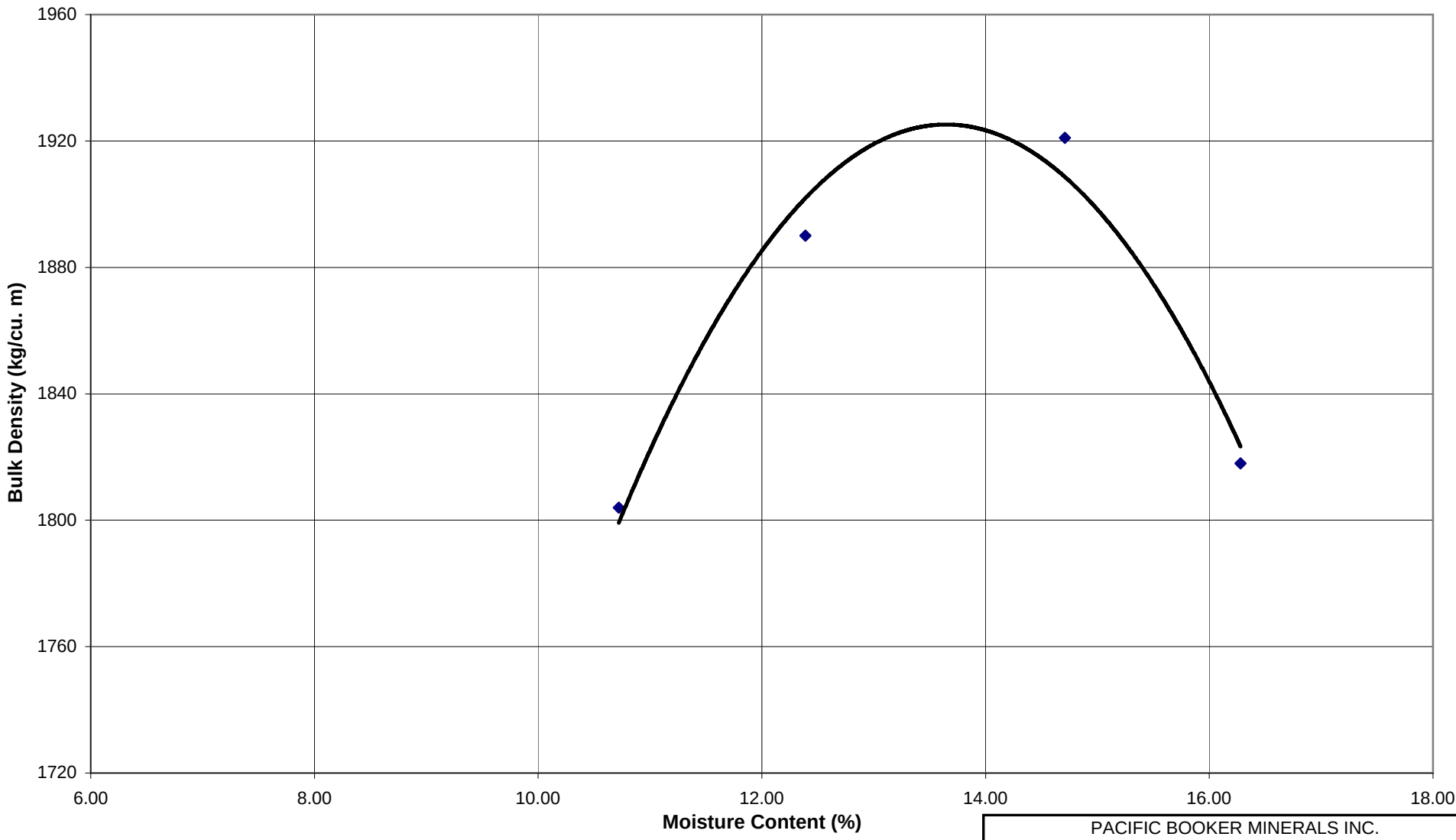

Notes:

1) Data from Cantest Ltd. - Sample ID 605020390

2) Sample is a composite of samples from TP06-15, 16, and 17

PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
COMPACTION TEST RESULTS
SAMPLE GROUP 1

Knight Piésold CONSULTING

PROJECT / ASSIGNMENT NO.	REF NO.
VA-101-00102/7	1

FIGURE 5.7

REV. 0

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M:\1\01\00102\07\A\Data\WMF Geotech SI - Feb to Apr '06\Lab Testing\Proctor Compaction Results.xls Group 2

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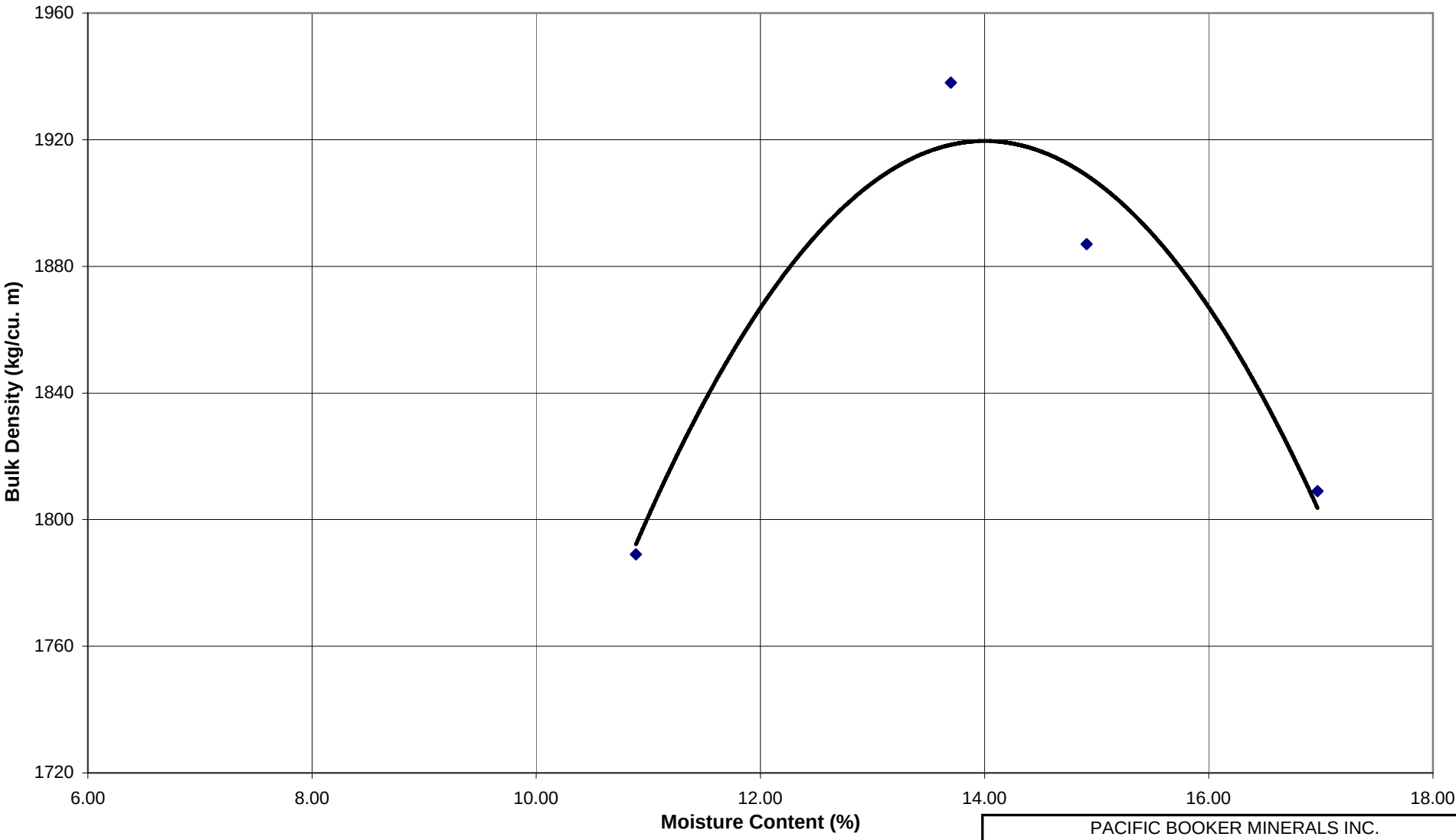
Rev'd Jun/8/06



Notes:

1) Data from Cantest Ltd. - Sample ID 605020391
2) Sample is a composite of samples from TP06-18 and 19

PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
COMPACTION TEST RESULTS
SAMPLE GROUP 2

Knight Piésold CONSULTING

PROJECT / ASSIGNMENT NO.	REF NO.
VA-101-00102/7	1

FIGURE 5.8

REV. 0

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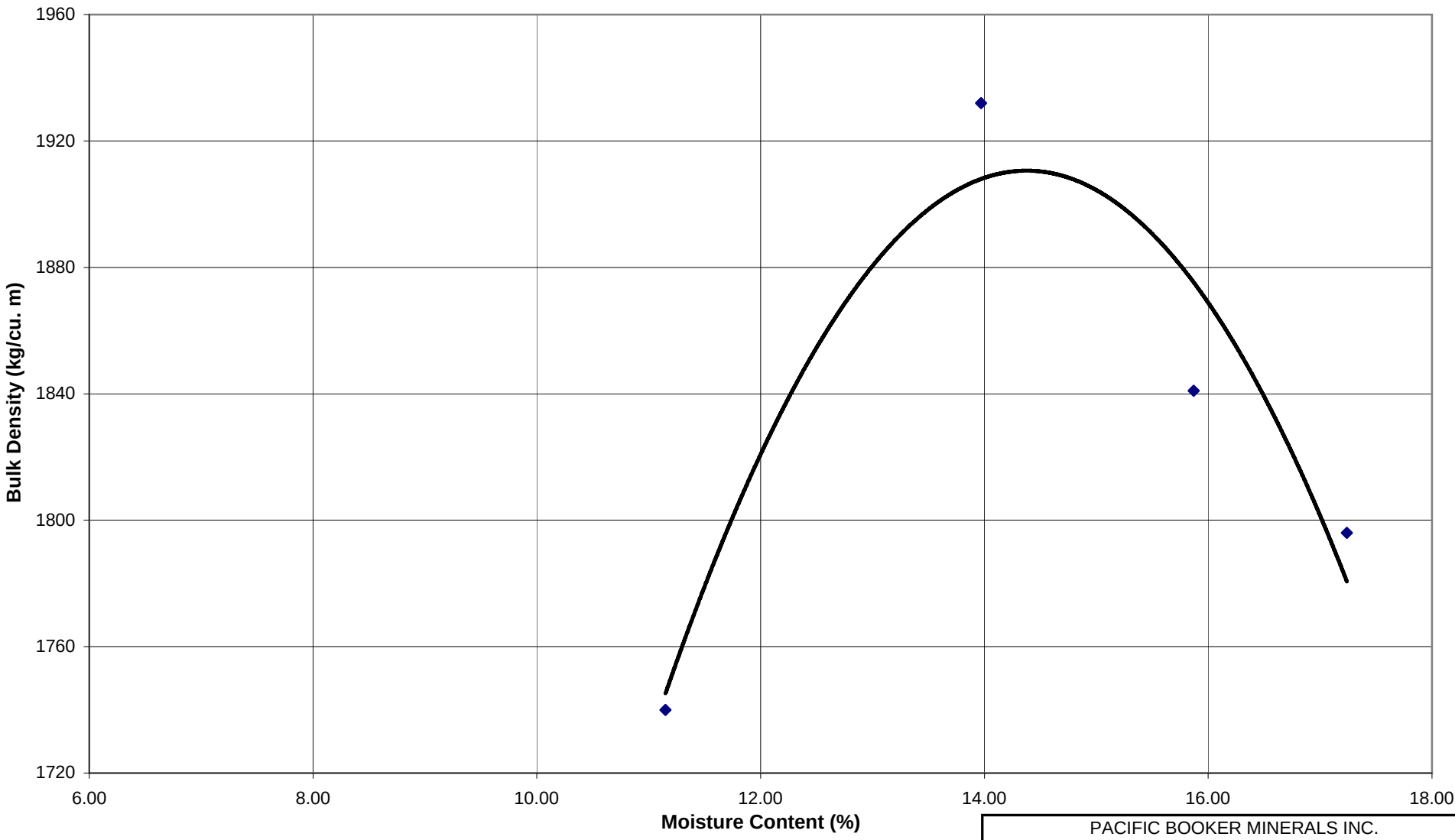


Notes:

1) Data from Cantest Ltd. - Sample ID 605020392

2) Sample is a composite of samples from TP06-20, 21 and 22

PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
COMPACTION TEST RESULTS
SAMPLE GROUP 3

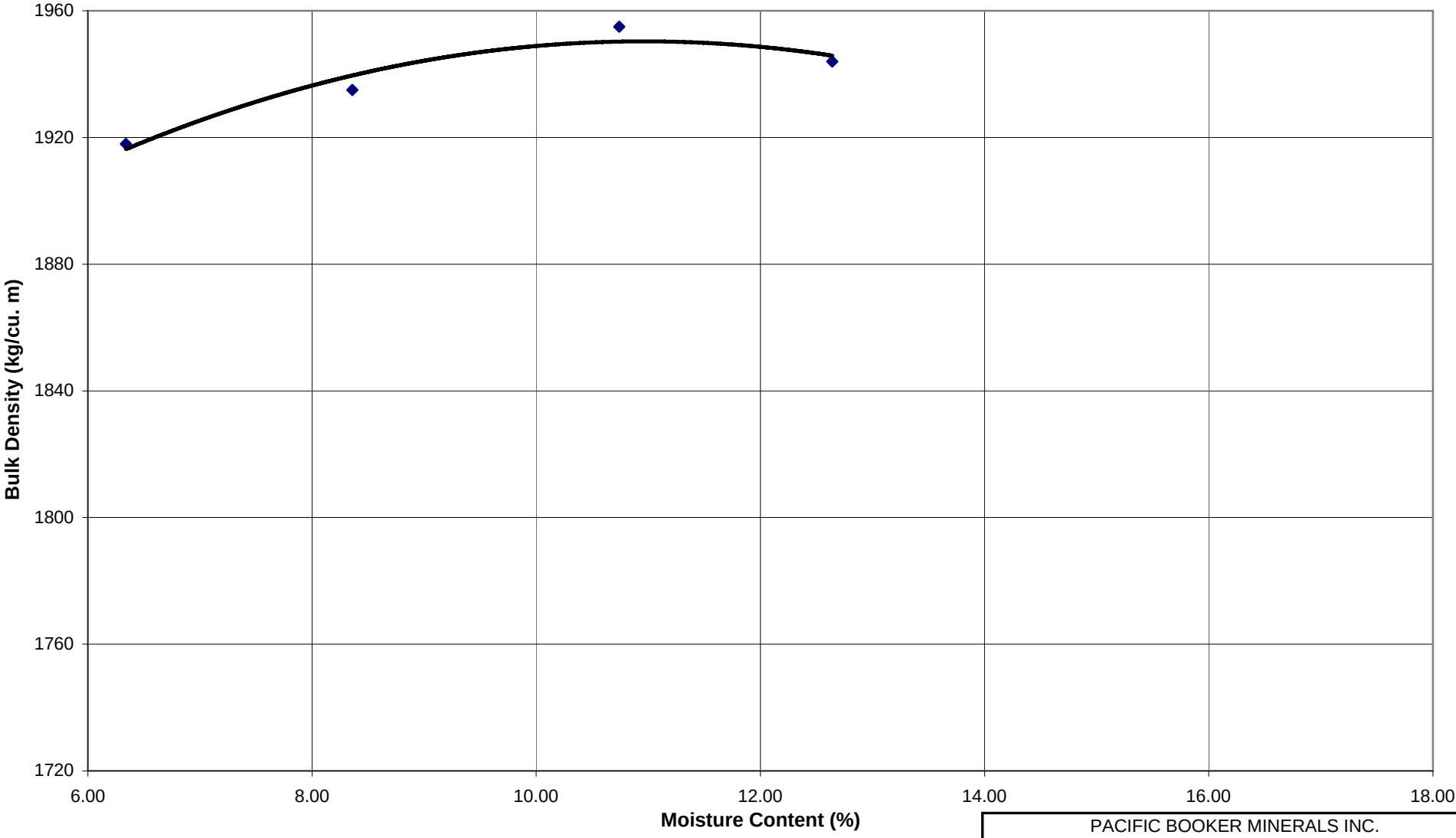
Knight Piésold CONSULTING

PROJECT / ASSIGNMENT NO.	REF NO.
VA-101-00102/7	1

FIGURE 5.9

REV. 0

Rev 0 - Issued for Report



Notes:

1) Data from Cantest Ltd. - Sample ID 605020393

2) Sample is a composite of samples from TP06-41, 42, 43, and 44

PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
COMPACTION TEST RESULTS
SAMPLE GROUP 4

Knight Piésold CONSULTING

PROJECT / ASSIGNMENT NO.	REF NO.
VA-101-00102/7	1

FIGURE 5.10

REV. 0

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APPENDIX A
(Rev 0)

GEOTECHNICAL DRILLHOLE LOGS

APPENDIX A1
(Rev 0)

OVERBURDEN DRILLING LOGS

- Drillhole DH06-01
- Drillhole DH06-02
- Drillhole DH06-03
- Drillhole DH06-04
- Drillhole DH06-06
- Drillhole DH06-07
- Drillhole DH06-08
- Drillhole DH06-09
- Drillhole DH06-10
- Drillhole DH06-11
- Drillhole DH06-12
- Drillhole DH06-13
- Drillhole DH06-14
- Drillhole DH06-15A

(Pages A1-1 to A1-14)

Project: Morrison Copper Gold Project | Drill Hole No. DH06-01 | Page 1 of 1

Drilling Co: Geotech Drilling Services | In-Situ Sampler: HQ3 Coring | Date Started: 25 Mar 06

Drilling Method: Odex & HQ3 Coring | Elevation: 960 m | Date Completed: 31 Mar 06

Location: WMF South Dam | Total Depth: 126.3 m | Logged by: JV

Coordinates: 6,123,943 N , 670,676 E | Azimuth,Inclination 300, -60 | Reviewed by: GJ

DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	DRILL RUN RECOVERY (%)	SAMPLE RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth (●) 20 40 60 80	NOTES
0	0		Gravelly SILT/CLAY matrix, with trace sand. Moist. Firm. Low to medium plasticity. Brown. TILL.				1	//			Odex drilling to 24.75 m.
10							2	//			
15	5		SILT/CLAY matrix with some gravel. Moist. Medium plasticity. Stiff. Dark brown. TILL.				3	//			
20							4	//			
25							5	//			
30							6	//			
35	10						7	//			
40							8	//			
45											
50	15						9	//			
55											
60											
65	20										
70											
75											
80	25		HQ Coring to 126.3 m. See Rock Log for details.								

SOILS LOG DRILL.GPJ DRILL.GDT 9 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Overburden Log For DH06-01

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
101-102/7	1	0

DH06-01

Rev. 0 - Issued for Report

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Date Revised: 2 May 06

Project: Morrison Copper Gold Project | Drill Hole No. DH06-02 | Page 1 of 1

Drilling Co: Geotech Drilling Services | In-Situ Sampler: SPT & HQ3 Coring | Date Started: 4 Mar 06

Drilling Method: Odex & HQ3 Coring | Elevation: 950 m | Date Completed: 6 Mar 06

Location: WMF South Dam | Total Depth: 39.5 m | Logged by: LS

Coordinates: 6,123,723 N, 670,576 E | Inclination: -90 | Reviewed by: GJ

DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	DRILL RUN RECOVERY (%)	SAMPLE RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth (●) 20 40 60 80	NOTES
			SILT/CLAY matrix with trace sand and gravel. Moist to wet. Firm. Low to medium plasticity. Subangular to subrounded clasts. TILL.								Odex drilling to 8.2 m.
							Shelby Tube 1	//			
					100		SPT 1	2/3/4	7		
					133		SPT 2	1/2/1	3		
					161		SPT 3	1/1/1	2		
					11		SPT 4	7/8/13	21		
			HQ Coring to 39.5 m. See Rock Log for details.								

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Overburden Log For DH06-02

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
101-102/7	1	0

DH06-02

Rev. 0 - Issued for Report

Date Revised: 2 May 06

SOILS LOG DRILL.GPJ DRILL.GDT 9 Jun 06

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Project: Morrison Copper Gold Project | Drill Hole No. DH06-03 | Page 1 of 1

Drilling Co: Geotech Drilling Services | In-Situ Sampler: SPT & HQ3 Coring | Date Started: 2 Mar 06

Drilling Method: Odex & HQ3 Coring | Elevation: 950 m | Date Completed: 4 Mar 06

Location: WMF South Dam | Total Depth: 36.9 m | Logged by: LS

Coordinates: 6,123,781 N , 670,541 E | Inclination: -90 | Reviewed by: GJ

DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	DRILL RUN RECOVERY (%)	SAMPLE RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth (●) 20 40 60 80	NOTES
			SILT/CLAY matrix with some gravel and trace sand. Well graded. Soft. Moist. Medium to high plasticity. Subangular clasts up to fine gravel size. Light brown. TILL.								Odex drilling to 5.8 m.
					39		SPT 1	2/3/3	6		
5	1		SILT/CLAY matrix with some gravel. Moist. Medium plasticity. Stiff. Frequent cobbles and boulders. Subangular gravel clasts. Light brown. TILL.								
	2				89		SPT 2	7/12/38	50		
10	3										
	4				50		SPT 3	8/13/14	27		
15	5										
			HQ Coring to 37 m. See Rock Log for details.		0			50/-/-	-		
20	6										

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Morrison Copper Gold Project
Overburden Log For DH06-03

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Project No.	Ref. No.	Rev.
101-102/7	1	0

DH06-03

Rev. 0 - Issued for Report

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Date Revised: 2 May 06

Project: Morrison Copper Gold Project — Drill Hole No. DH06-04 — Page 1 of 2

Drilling Co: Geotech Drilling Services — In-Situ Sampler: SPT & HQ3 Coring — Date Started: 7 Mar 06

Drilling Method: Odex & HQ3 Coring — Elevation: 983 m — Date Completed: 9 Mar 06

Location: WMF South Dam — Total Depth: 41.5 m — Logged by: LS

Coordinates: 6,123,060m N, 670,997m E — Inclination: -90 — Reviewed by: GJ

DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	DRILL RUN RECOVERY (%)	SAMPLE RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth (●) 20 40 60 80	NOTES
			Gravelly SILT/CLAY matrix with some sand. Moist. Firm. Frequent subangular to subrounded clasts to fine gravel size. Well graded. Low to medium plasticity. TILL.								Odex drilling to 9.1 m.
	1				93	☒	SPT 1	4/6/9	15		
5			SILT/CLAY matrix with some gravel and trace sand. Low to medium plasticity. Moist. Stiff. Subangular to subrounded clasts up to cobble size. Well graded. Light brown. TILL.								
	2										
					100	☒	SPT 2	4/6/10	16		
10	3										
	4										
					104	☒	SPT 3	3/4/5	9		
15	5										
					100	☒	SPT 4	4/7/11	18		
20	6										
	7				104	☒	SPT 5	5/6/9	15		
25											
	8										
					61	☒	SPT 6	6/50+/-	-		
30	9		HQ Coring to 41.5 m. See Rock Log for details.								

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Overburden Log For DH06-04

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Project No.	Ref. No.	Rev.
101-102/7	1	0

DH06-04

Rev. 0 - Issued for Report

Date Revised: 3 May 06

SOILS LOG DRILL.GPJ DRILL.GDT 27 Jun 06

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Project: Morrison Copper Gold Project — Drill Hole No. DH06-06 — Page 1 of 1

Drilling Co: Geotech Drilling Services — In-Situ Sampler: SPT & HQ3 Coring — Date Started: 9 Mar 06

Drilling Method: Odex & HQ3 Coring — Elevation: 960 m — Date Completed: 11 Mar 06

Location: WMF South Dam — Total Depth: 36.7 m — Logged by: LS

Coordinates: 6,122,655 N , 671,486 E — Inclination: -90 — Reviewed by: GJ

DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	DRILL RUN RECOVERY (%)	SAMPLE RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth 20 40 60 80	NOTES
			Silt, organics. Wood smell. Dark brown. TOPSOIL.								Odex drilling to 5.2 m.
	1										
5											
	2		Silty sandy GRAVEL. Moist to dry. Loose. Subrounded to subangular clasts up to pebble size. Well graded. TILL.								
			Clayey SILT with some sand and gravel. Small subrounded gravel clasts. Poorly graded. Very wet. Loose. TILL.		0		SPT 1	1/-/1	1		
10	3										
							Shelby Tube 1	//			
	4										
			SILT/CLAY matrix with some gravel. Moist. Stiff. Small subangular to subrounded clasts. Medium to high plasticity. Light brown. TILL.		48		SPT 2	3/4/5	9		
15											
	5										
			HQ Coring to 36.7 m. See Rock Log for details.								

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Overburden Log For DH06-06

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Date Revised: 3 May 06

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Project: Morrison Copper Gold Project | Drill Hole No. DH06-07 | Page 1 of 1

Drilling Co: Geotech Drilling Services | In-Situ Sampler: SPT & HQ3 Coring | Date Started: 27 Feb 06

Drilling Method: Odex & HQ3 Coring | Elevation: 993 m | Date Completed: 1 Mar 06

Location: WMF South Dam | Total Depth: 43.3 m | Logged by: LS

Coordinates: 6,122,667 N , 671,775 E | Inclination: -90 | Reviewed by: GJ

DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	DRILL RUN RECOVERY (%)	SAMPLE RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth (20 40 60 80)	NOTES
			Organic topsoil. Black. Moist.								Odex drilling to 10.3 m.
			SILT/CLAY matrix with some gravel and trace sand. Moist. Stiff. Medium to high plasticity. Subangular to angular small clasts up to cobble size. Well graded. Light brown. TILL.				Shelby Tube 1	//			
5	2				78		SPT 1	8/10/14	24		
10	4				72		SPT 2	8/9/10	19		
15					83		SPT 3	6/7/11	18		
20	6				78		SPT 4	4/6/7	13		
25	8				54		SPT 5	6/10/12	22		
30	10				65		SPT 6	6/9/10	19		
35			HQ Coring to 43 m. See Rock Log for details.								

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Overburden Log For DH06-07

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
101-102/7	1	0

DH06-07

Rev. 0 - Issued for Report

Date Revised: 3 May 06

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Project: Morrison Copper Gold Project | Drill Hole No. DH06-08 | Page 1 of 1

Drilling Co: Geotech Drilling Services | In-Situ Sampler: SPT | Date Started: 18 Mar 06

Drilling Method: Odex | Elevation: 838 m | Date Completed: 20 Mar 06

Location: Proposed Millsite. | Total Depth: 39.9 m | Logged by: JV

Coordinates: 6,119,649 N , 671,249 E | Inclination: -90 | Reviewed by: GJ

DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	DRILL RUN RECOVERY (%)	SAMPLE RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth (m) 20 40 60 80	NOTES
	1		Sandy SILT/CLAY matrix with some gravel. Very wet. Firm. Brown. TILL.		89		SPT 1	1/4/6	10		Odex drilling to 39.8 m.
5	2		Silty SAND. Very wet. Firm. Brown.								
10	3		SILT/CLAY matrix with some gravel. Moist. Medium Plasticity. Stiff. Subangular to subrounded clasts. Dark brown. TILL.		61		SPT 2	17/22/21	43		
15	4				100		SPT 3	6/8/10	18		
20	5				78		SPT 4	8/9/13	22		
25	6				93		SPT 5	5/6/11	17		
30	7				83		SPT 6	6/21/16	37		
35	8				65		SPT 7	4/9/10	19		
40	9				89		SPT 8	4/7/10	17		
45	10										
50	11				83		SPT 9	7/15/21	36		
55	12										
60	13				72		SPT 10	10/19/21	40		
65	14										
70	15				72		SPT 11	6/10/19	29		
75	16										
80	17				126		SPT 12	6/11/17	28		
85	18										
90	19				126		SPT 13	4/6/13	19		
95	20										
100	21				104		SPT 14	11/19/19	38		
105	22										
110	23				126		SPT 15	6/11/28	39		
115	24										
120	25				133		SPT 16	4/2/9	11		
125	26		CLAY with some sand. Very wet, high plasticity. Soft. High pressure water bearing region - source of Artesian well.								
130	27		End of Hole @ 39.8 m.								
135	28										
140	29										

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Overburden Log For DH06-08

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
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DH06-08

Rev. 0 - Issued for Report

Date Revised: 2 May 06

SOILS LOG DRILL.GPJ DRILL.GDT 9 Jun 06

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Project: Morrison Copper Gold Project | Drill Hole No. DH06-09 | Page 1 of 1

Drilling Co: Geotech Drilling Services | In-Situ Sampler: SPT | Date Started: 20 Mar 06

Drilling Method: Odex | Elevation: 835 m | Date Completed: 22 Mar 06

Location: Proposed millsite. | Total Depth: 33.2 m | Logged by: JV

Coordinates: 6,119,478 N , 671,152 E | Inclination: -90 | Reviewed by: GJ

DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	DRILL RUN RECOVERY (%)	SAMPLE RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth (m) 20 40 60 80	NOTES
			Organic soil, moist, black.								Odex drilling to 33 m.
	1		CLAY. Moist. Highly plastic. Fine grained. White/grey.								
5	2		SILT/CLAY matrix with some gravel and trace sand. Stiff. Moist. Trace amounts of yellowish sand. Subrounded to subangular clasts. Medium to low plasticity. Dark brown. TILL.		28		Shelby 1	//			
							SPT 1	12/12/8	20		
10	3				48		SPT 2	4/6/8	14		
15	4				78		SPT 3	5/9/11	20		
	5										
20	6				65		SPT 4	8/11/12	23		
	7										
25	8				11		SPT 5	6/8/10	18		
30	9				111		SPT 6	7/8/12	20		
	10										
35	11				100		SPT 7	6/10/15	35		
40	12				54		SPT 8	5/36/53	89		
	13										
45	14										
50	15				65		SPT 9	7/8/11	19		
	16										
55	17										
60	18				54		SPT 10	6/10/12	22		
	19										
65	20										
70	21				126		SPT 11	6/11/14	25		
	22										
75	23										
80	24				100		SPT 12	7/13/14	27		
	25										
85	26										
90	27				133		SPT 13	6/12/15	27		
	28										
95	29										
100	30		Drilled into bedrock to 33 m. No core taken.		17		SPT 14	50+/-/-	-		
105	31										
110	32										
115	33										
	34										
	35										
	36										

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Overburden Log For DH06-09

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
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DH06-09

Rev. 0 - Issued for Report

Date Revised: 1 May 06

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Project: Morrison Copper Gold Project | Drill Hole No. DH06-10 | Page 1 of 2

Drilling Co: Geotech Drilling Services | In-Situ Sampler: SPT & HQ3 Coring | Date Started: 17 Feb 06

Drilling Method: Odex & HQ3 Coring | Elevation: 1001 m | Date Completed: 19 Feb 06

Location: WMF North Dam | Total Depth: 53.6 m | Logged by: JV

Coordinates: 6,125,683m N , 671,523m E | Inclination: -90 | Reviewed by: GJ

DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	DRILL RUN RECOVERY (%)	SAMPLE RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth (20 40 60 80)	NOTES
0	0		TILL/SILT with some gravel. Stiff. Fine gravel. Medium plasticity. Dark brown. Moist.								Odex drilling to 35 m.
			Hit a boulder. Back to till at the bottom of run.								
5			TILL/SILT with some gravel. Stiff. Fine gravel. Medium plasticity. Dark brown. Moist.		104		SPT 1	7/16/21	37		
10					104		SPT 2	8/15/19	34		
15	5				126		SPT 3	4/8/7	15		
20					93		SPT 4	5/6/10	16		
25					85		SPT 5	4/5/9	14		
30					78		SPT 6	5/8/13	21		
35	10				33		SPT 7	11/8/11	19		
40			Same TILL as above, but with trace amounts of orangey/green sand.		100		SPT 8	5/6/10	16		
45											
50	15				65		SPT 9	4/8/10	18		
55											
60					100		SPT 10	4/13/18	31		
65	20										
70					111		SPT 11	4/8/12	20		
			HQ Coring to 53.6 m. See Rock Log for details.								
75											

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Overburden Log For DH06-10

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
101-102/7	1	0

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Date Revised: 3 Mar 06

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Project: Morrison Copper Gold Project | Drill Hole No. DH06-11 | Page 1 of 1

Drilling Co: Geotech Drilling Services | In-Situ Sampler: SPT & HQ3 Coring | Date Started: 20 Feb 06

Drilling Method: Odex & HQ3 Coring | Elevation: 965 m | Date Completed: 22 Feb 06

Location: WMF North Dam | Total Depth: 36.9 m | Logged by: LS

Coordinates: 6,125,568 N , 671,912 E | Inclination: -90 | Reviewed by: GJ

DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	DRILL RUN RECOVERY (%)	SAMPLE RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth 20 40 60 80	NOTES
			Clay/silt and gravel. Trace fine sand. Angular clasts. Low to medium plasticity. Slightly moist. Stiff. TILL.								Odex drilling to 3.5 m.
5	1		Silt/Clay matrix with some gravel. Moist to very moist. Stiff. Dark brown. TILL.		100		SPT 1	14/15/23	38		
	2										
10	3		HQ Coring to 37 m. See Rock Log for details.		61		SPT 2	18/20/18	38		

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Overburden Log For DH06-11

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
101-102/7	1	0

DH06-11

Rev. 0 - Issued for Report

Date Revised: 1 May 06

SOILS LOG DRILL.GPJ DRILL.GDT 9 Jun 06

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Project: Morrison Copper Gold Project | Drill Hole No. DH06-12 | Page 1 of 1

Drilling Co: Geotech Drilling Services | In-Situ Sampler: SPT & HQ3 Coring | Date Started: 22 Feb 06

Drilling Method: Odex & HQ3 Coring | Elevation: 996 m | Date Completed: 26 Feb 06

Location: WMF North Dam | Total Depth: 58.3 m | Logged by: JV & LS

Coordinates: 6,125,182 N , 672,265 E | Inclination: -90 | Reviewed by: GJ

DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	DRILL RUN RECOVERY (%)	SAMPLE RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth 20 40 60 80	NOTES
			Clayey SILT. Light brown, moist. Stiff. Poorly graded. Medium plasticity.								Odex drilling to 9.1 m.
	1										
5			Silt/Clay matrix with some gravel. Small to medium sized clasts. Medium plasticity. Slightly moist. Stiff. Dark brown. TILL								
	2										
10	3				72		SPT 1	8/15/28	43		
	4										
15					11		SPT 2	11/16/12	28		
	5										
20	6				100		SPT 3	6/8/11	19		
	7										
25			Silt/clay with some gravel and trace sand. Moist. Small to medium sized clasts. Trace amount of orange coloured sand. Medium plasticity. Stiff. Dark brown. TILL.		100		SPT 4	8/10/13	23		
	8										
30	9		HQ Coring to 58 m. See Rock Log for details.		100		SPT 5	50+/-/-	-		

SOILS LOG DRILL.GPJ DRILL.GDT 9 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Overburden Log For DH06-12

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Project No.	Ref. No.	Rev.
101-102/7	1	0

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Date Revised: 1 May 06

Project: Morrison Copper Gold Project | Drill Hole No. DH06-13 | Page 1 of 1

Drilling Co: Geotech Drilling Services | In-Situ Sampler: SPT & HQ3 Coring | Date Started: 22 Mar 06

Drilling Method: Odex & HQ3 Coring | Elevation: 808 m | Date Completed: 24 Mar 06

Location: Open Pit center. | Total Depth: 20.3 m | Logged by: JV

Coordinates: 6,119,111m N, 670,800m E | Inclination: -90 | Reviewed by: GJ

DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	DRILL RUN RECOVERY (%)	SAMPLE RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth (●) 20 40 60 80	NOTES
			Sandy SILT/CLAY with organics. Dry. Firm. Reddish brown. TILL.								Odex drilling to 10.0 m.
5	1		Gravelly SILT/CLAY. Low to medium plasticity. Moist. Subangular to subrounded clasts. Dark brown. TILL.		115	☒	SPT 1	10/13/16	29		
10	2				126	☒	SPT 2	7/15/16	31		
15	3				104	☒	SPT 3	7/10/13	23		
20	4				43	☒	SPT 4	10/22/34	56		
25	5				78	☒	SPT 5	8/28/55	83		
30	6		Sandy CLAY. Moist. Low plasticity. Sand looks like coarse calcite chunks. Soft. Whitish grey/green. Trace pyrite in sand.		126	☒	SPT 6	14/21/22	43		
35	7		HQ Coring to 20 m. See Rock Log for details.		72	☒	SPT 7	21/60+/-	-		
40	8										
45	9										
50	10										
55	11										
60	12										
65	13										
70	14										
	15										
	16										
	17										
	18										
	19										
	20										
	21										
	22										

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Overburden Log For DH06-13

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
101-102/7	1	0

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Date Revised: 1 May 06

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Project: Morrison Copper Gold Project | Drill Hole No. DH06-14 | Page 1 of 1

Drilling Co: Geotech Drilling Services | In-Situ Sampler: SPT & HQ3 Coring | Date Started: 22 Mar 06

Drilling Method: Odex & HQ3 Coring | Elevation: 840 m | Date Completed: 23 Mar 06

Location: East of open pit area. | Total Depth: 29.0 m | Logged by: JV

Coordinates: 6,119,159m N , 671,396m E | Inclination: -90 | Reviewed by: GJ

DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	DRILL RUN RECOVERY (%)	SAMPLE RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth (20 40 60 80)	NOTES
0	0		Gravelly SAND, with some clay. Wet. Loose. Reddish brown.								Odex drilling to 20.2 m.
5					50		SPT 1	6/7/17	24		
10					39		SPT 2	2/3/3	6		
15	5		SILT/CLAY matrix with some gravel. Moist. Low-medium plasticity. Stiff. Subangular to angular gravel. Dark brown. TILL.		104		SPT 3	3/4/4	8		
20					65		SPT 4	7/13/14	27		
25					0		SPT 5	20/18/12	30		
30	10				78		SPT 6	5/12/17	29		
35					54		SPT 7	10/11/19	30		
40											
45											
50	15				39		SPT 8	15/17/21	38		
55											
60					115		SPT 9	12/14/22	36		
65	20		HQ Coring to 29 m. See Rock Log for details.								
70											
75											

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Overburden Log For DH06-14

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
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Date Revised: 2 May 06

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Project: Morrison Copper Gold Project | Drill Hole No. DH06-15A | Page 1 of 1

Drilling Co: Geotech Drilling Services | In-Situ Sampler: SPT | Date Started: 12 Mar 06

Drilling Method: Odex | Elevation: 817 m | Date Completed: 17 Mar 06

Location: Near pond north of open pit. | Total Depth: 33.1 m | Logged by: JV & LS

Coordinates: 6,120,320 N , 670,693 E | Inclination: -90 | Reviewed by: GJ

DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	DRILL RUN RECOVERY (%)	SAMPLE RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth (20 40 60 80)	NOTES
			Sandy silt/clay matrix with some gravel. Moist. Stiff. Subrounded clasts. Well graded. Dark brown. TILL.		54		SPT 1	4/7/7	14		Odex drilling to 32.9 m.
					78		SPT 2	7/7/12	19		
			Silty SAND. Fine sand. Moist. Firm. Poorly graded. Medium plasticity. Light brown.		89		SPT 3	6/7/12	19		
			Silt/Clay matrix with some gravel. Moist. Stiff. Poorly graded. Few clasts. Subangular to subrounded. Medium plasticity. Light brown. TILL.		22		SPT 4	50/-/-	-		
					28		SPT 5	5/6/12	18		
					100		SPT 6	5/10/10	20		
					93		SPT 7	4/7/12	19		
					111		SPT 8	3/6/8	14		
					7		SPT 9	9/14/23	37		
					89		SPT 10	4/5/9	14		
					111		SPT 11	5/6/10	16		
					89		SPT 12	7/7/8	15		
					72		SPT 13	6/13/15	28		

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Overburden Log For DH06-15A

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
101-102/7	1	0

DH06-15a

Rev. 0 - Issued for Report

SOILS LOG DRILL.GPJ DRILL.(

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Date Revised: 1 May 06

APPENDIX A2
(Rev 0)

BEDROCK DRILLING LOGS

- Drillhole DH06-01
- Drillhole DH06-02
- Drillhole DH06-03
- Drillhole DH06-04
- Drillhole DH06-06
- Drillhole DH06-07
- Drillhole DH06-10
- Drillhole DH06-11
- Drillhole DH06-12
- Drillhole DH06-13
- Drillhole DH06-14

(Pages A2-1 to A2-18)

Knight Piésold CONSULTING

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET
ROCK MASS CLASSIFICATION - RMR 1989

PROJECT: MORRISON COPPER GOLD
Client: PACIFIC BOOKER MINERALS
Drilling Company: GEOTECH DRILLING
Location: GRANISLE, BC
Coordinates : N 6,123,950 m, E 670,685 m

Surface Elevation: 950.0 m / 3,116 ft
Total Depth: 126.3 m / 414 ft
Azimuth: 300 deg
Inclination: 60 deg (down is positive)

Drill Type: HQ Triple Tube
Core Diameter: From 0 to 126 m HQ3 61.0 mm
Core Diameter: From to m to m 45.0 mm
to m
to m

Logged By: JV
Reviewed By: GJ
Date Started: Mar/25/2006
Date Completed: Mar/31/2006

Drill Hole Number: DH06-1

M:\1\01\00102\07\A\Data\WMF Geotech SI - Feb to Apr '06\Drillholes\[DH06-1.xls]Data - Calc Sheet

Drill Hole Number: DH06-1

DRILL RUN DATA											GEOLOGY - COMMENTS		RMR - DATA (BY RUN)									RMR CALCULATIONS (BY RUN)						DISCONTINUITY DATA																PLT STRENGTH DATA / CALCs.					
Depth From (ft)	Elev. From (ft)	Depth From (m)	Elev. From (m)	Depth To (ft)	Depth To (m)	Run Length (m)	Recov. Length (m)	Recov. (%)	RQD Length (m)	RQD (%)	Rock Type (see Leg)	Weathered State, Structure, Color, Grain Size, Rock Material Strength, Rock Type	UCS (Est.) (MPa)	# of Joints	Joint Set Spac. (mm)	Joint Condition Persis- P	Apert- A	Rough R	Infill I	Weath W	TOTAL	Water Rating	RMR-89 UCS Rating	RMR-89 RQD Rating	RMR-89 Joint Spac. Rating	RMR-89 Joint Condition Rating	RMR-89 Water Rating	RMR-89 Total	Depth (m)	Elev. (m)	Alpha (deg.)	Beta (deg.)	Disc. Type	Aper. (mm)	Fill. Type 1 (see Leg)	Fill. Type 2 (see Leg)	Fill. Type 3 (see Leg)	RMR Joint Condition Jc	QTY	Orientation of Slick wrt vertical (degrees)-clockwise from reference line	Sampled?	Orientation Quality	Depth (m)	Elev. (m)	Date Tested	Core Diameter (mm)	Gauge Value (psi)	Gauge Value (kPa)	UCS (Isx24) (MPa)	Strength Designation Grade
0.0	3116.0	0.00	950.0	81.0	24.70	24.70		0.0		0.0	OB																																				
85.0	3042.4	25.91	927.6	89.3	27.23	1.31	1.30	99.2	0.70	53.4	ZS	Dark grey to light grey. Fine grained. CC and CLY infilling. Some QTZ/CC veins. Crumbly at bottom of run. Rust coloured infilling.	120	20	65	0	4	3	2	5	14	15	10.6	10.6	5.9	14.0	15	56.1																						
89.3	3038.7	27.23	926.4	94.3	28.75	1.52	1.52	99.7	0.58	38.0	ZS	Siltstone. CC/CLY infilling. Fine grained. Rusty coloured infilling.	60	22	69	0	4	3	2	3	12	15	6.5	8.0	5.9	12.0	15	47.5																						
94.3	3034.3	28.75	925.1	99.3	30.27	1.52	1.50	98.4	0.90	59.0	ZS	Siltstone. CC infilling up to 2mm thick, with CLY layers on each side of CC. Fine grained, drk grey. Highly fractured in areas.	50	18	83	0	1	3	4	3	11	15	5.7	11.6	6.1	11.0	15	49.4																						
99.3	3030.0	30.27	923.8	102.8	31.34	1.07	1.07	100.0	0.45	42.2	ZS	Siltstone. CC/CLY infilling. Some drk reddish or purplish brown infill.	50	19	56	0	4	3	2	3	12	15	5.7	8.7	5.8	12.0	15	47.1																						
102.8	3027.0	31.34	922.9	107.3	32.71	1.37	1.37	99.9	0.81	59.0	ZS	as above	60	17	81	0	4	1	4	5	14	15	6.5	11.6	6.1	14.0	15	53.2																						
107.3	3023.1	32.71	921.7	110.8	33.78	1.07	1.05	98.4	0.79	74.0	ZS	Same rock. CC and brown hard infilling. Large Clay seam at bottom.	80	10	105	0	4	1	4	5	14	15	8.0	14.5	6.4	14.0	15	57.9																						
110.8	3020.0	33.78	920.7	114.3	34.85	1.07	1.05	98.4	0.61	57.2	ZS	As above: touches of CLY infilling. Reddish brown infilling. Highly fractured.	60	16	66	0	4	3	4	5	16	15	6.5	11.3	5.9	16.0	15	54.7																						
114.3	3017.0	34.85	919.8	117.8	35.91	1.07	1.13	100.0	0.13	12.2	ZS	Same stuff. Highly fractured.	60	30	38	0	4	1	2	3	10	15	6.5	4.4	5.5	10.0	15	41.4																						
117.8	3014.0	35.91	918.9	122.8	37.44	1.52	1.52	99.7	0.93	61.0	ZS	Same, but more competent.	60	16	95	0	4	3	4	3	14	15	6.5	12.0	6.3	14.0	15	53.7																						
122.8	3009.7	37.44	917.6	127.8	38.96	1.52	1.47	96.4	1.05	68.9	ZS	As above.	60	13	113	0	4	3	4	3	14	15	6.5	13.5	6.5	14.0	15	55.5																						
127.8	3005.3	38.96	916.3	132.8	40.49	1.52	1.59	100.0	1.54	100.0	ZS	Siltstone. Fine grained. CLY and hard reddish brown CC like infilling.	80	6	265	0	4	3	2	3	12	15	8.0	20.2	8.3	12.0	15	63.6																						
132.8	3001.0	40.49	914.9	137.8	42.01	1.52	1.56	100.0	1.27	83.3	ZS	CLY reddish brown infilling.	80	10	156	0	4	1	2	3	10	15	8.0	16.4	7.0	10.0	15	56.5																						
137.8	2996.7	42.01	913.6	142.8	43.54	1.52	1.56	100.0	1.29	84.6	ZS	ZS? Some sections larger grained (sand size). Light grey. Clay seams. One joint had touches of PY. Mostly CLY and CC infilling.	125	9	173	0	4	1	2	3	10	15	10.9	16.7	7.3	10.0	15	59.9																						
142.8	2992.3	43.54	912.3	147.8	45.06	1.52	1.50	98.4	1.21	79.4	ZS	Fine grained. Light grey. CLY, CC infilling.	90	8	188	0	4	3	2	3	12	15	8.7	15.6	7.4	12.0	15	58.8																						
147.8	2988.0	45.06	911.0	152.8	46.59	1.52	1.55	100.0	0.30	19.7	ZS	CLY and CC infilling. Grey. Fine grained. Highly fractured.	80	26	60	0	4	3	4	3	14	15	8.0	5.4	5.8	14.0	15	48.2																						
152.8	2983.7	46.59	909.7	155.3	47.35	0.76	0.79	100.0	0.63	82.7	ZS	CLY infilling. Some QTZ/CC veins. QTZ/CC seam near bottom. Blocked, so only 2.5'.	60	4	198	0	4	3	2	5	14	15	6.5	16.3	7.6	14.0	15	59.3																						
155.3	2981.5	47.35	909.0	159.5	48.63	1.28	1.13	88.2	1.10	85.9	ZS	Really mixed up. QTZ/CC veins going every which way. Grey. Fine grained. CLY seam.	125	2	565	0	1	3	2	3	9	15	10.9	17.0	11.3	9.0	15	63.3																						
159.5	2977.9	48.63	907.9	164.5	50.15	1.52	1.55	100.0	0.95	62.3	ZS	QTZ/CC Veins. Fine grained. CLY and CC infilling.	80	10	155	0	4	3	2	3	12	15	8.0	12.2	7.0	12.0	15	54.3																						
164.5	169.5	50.15	906.6	169.5	51.68	1.52	1.55	100.0	0.76	49.9	ZS	As above.	60	18	86	0	4	3	4	5	16	15	6.5	10.0	6.2	16.0	15	53.6																						
169.5	2969.2	51.68	905.2	174.5	53.20	1.52	1.58	100.0	1.58	100.0	ZS	As above.	125	3	527	0	4	0	2	5	11	15	10.9	20.2	11.0	11.0	15	68.1																						
174.5	2964.9	53.20	903.9	179.5	54.73	1.52	1.50	98.4	1.25	82.0	ZS	Lots of CLY in joints.	100	9	167	0	1	5	2	3	11	15	9.4	16.2	7.2	11.0	15	58.8																						
179.5	2960.5	54.73	902.6	184.5	56.25	1.52	1.56	100.0	0.77	50.5	ZS	As above. Some red and green crystals.	125	13	120	0	4	3	2	5	14	15	10.9	10.1	6.6	14.0	15	56.6																						

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Drill Hole Number: DH06-1

DRILL RUN DATA											GEOLOGY - COMMENTS	RMR - DATA (BY RUN)									RMR CALCULATIONS (BY RUN)						DISCONTINUITY DATA														PLT STRENGTH DATA / CALCs.					
Depth From (ft)	Elev. From (ft)	Depth From (m)	Elev. From (m)	Depth To (ft)	Depth To (m)	Run Length (m)	Recov. Length (m)	Recov. (%)	RQD Length (m)	RQD (%)	Rock Type (see Leg)	Weathered State, Structure, Color, Grain Size, Rock Material Strength, Rock Type	UCS (Est.) (MPa)	# of Joints	Joint Set Spac. (mm)	Joint Condition						Water Rating	RMR-89 UCS Rating	RMR-89 RQD Rating	RMR-89 Joint Spac. Rating	RMR-89 Joint Condition Rating	RMR-89 Water Rating	RMR-89 Total	Depth (m)	Elev. (m)	Alpha (deg.)	Beta (deg.)	Disc. Type	Aper. (mm)	Fill. Type 1 (see Leg)	Fill. Type 2 (see Leg)	Fill. Type 3 (see Leg)	RMR Joint Condition Jc	QTY	Orientation of Slick wrt vertical (degrees)-clockwise from reference line	Sampled?	Orientation Quality	Depth (m)	Elev. (m)	Date Tested	Core Diameter (mm)	Gauge Value (psi)	Gauge Value (kPa)	UCS (Isx24) (MPa)	Strength Designation Grade
																Persis-P	Apert-A	Rough R	Infill I	Weath W	TOTAL																									
184.5	2956.2	56.25	901.3	189.5	57.77	1.52	1.52	99.7	1.34	87.9	ZS/VL	As above. At bottom (188') turned greenish with varying grain size up to small gravel, then turned deep red fine grained.	80	6	253	0	1	3	2	3	9	15	8.0	17.4	8.2	9.0	15	57.7																					
189.5	2951.9	57.77	900.0	194.5	59.30	1.52	1.52	99.7	1.52	99.7	VL	Fine grained red with some greenish/dark grey small gravel sized grains. CC/CLY infilling. QTZ or CC vein.	80	1	1520	0	5	3	4	3	15	15	8.0	20.1	17.5	15.0	15	75.7																					
194.5	2947.6	59.30	898.6	199.5	60.82	1.52	1.40	91.8	1.40	91.8	VL	Same red stuff. Band of conglomerate looking stuff, or same rock with large (up to 1cm) green and white crystals.	60	5	280	0	5	4	3	4	16	15	6.5	18.3	8.5	16.0	15	64.3																					
199.5	2943.2	60.82	897.3	204.5	62.35	1.52	1.58	100.0	1.40	91.8	VL	As above. Red with black (with green and white crystals) sections.	100	8	198	0	4	3	4	6	17	15	9.4	18.3	7.6	17.0	15	67.3																					
204.5	2938.9	62.35	896.0	209.5	63.87	1.52	1.50	98.4	1.19	78.1	VL	Red, fine grained with lots of yellowish green and white crystals/spots. Soft crumbly layers at one joint.	100	9	167	0	1	2	4	6	13	15	9.4	15.3	7.2	13.0	15	59.9																					
209.5	2934.6	63.87	894.7	214.5	65.40	1.52	1.56	100.0	0.97	63.6	VL	As above. Big chunk of QTZ. Yellowish green to green to white spots on reddish grey rock.	80	12	130	0	4	3	4	5	16	15	8.0	12.5	6.7	16.0	15	58.2																					
214.5	2930.2	65.40	893.4	219.5	66.92	1.52	1.57	100.0	1.27	83.3	VL	As above.	125	9	174	0	4	3	2	3	12	15	10.9	16.4	7.3	12.0	15	61.7																					
219.5	2925.9	66.92	892.0	224.5	68.45	1.52	1.52	99.7	1.52	99.7	VL	As above.	125	3	507	0	4	1	4	3	12	15	10.9	20.1	10.8	12.0	15	68.9																					
224.5	2921.6	68.45	890.7	229.5	69.97	1.52	1.56	100.0	1.42	93.2	VL	As above. Red CLY infilling.	80	5	312	0	4	3	2	3	12	15	8.0	18.6	8.9	12.0	15	62.5																					
229.5	2917.2	69.97	889.4	234.5	71.49	1.52	1.52	99.7	1.46	95.8	VL	As above. Pinkish hue to QTZ chunks.	80	8	190	0	4	5	4	6	19	15	8.0	19.2	7.5	19.0	15	68.7																					
234.5	2912.9	71.49	888.1	239.5	73.02	1.52	1.56	100.0	1.19	78.1	VL	As above. Some CLY and some reddish CC infill. QTZ pockets. Some greenish base rock.	100	12	130	0	4	3	4	5	16	15	9.4	15.3	6.7	16.0	15	62.5																					
239.5	2908.6	73.02	886.8	244.5	74.54	1.52	1.50	98.4	0.97	63.6	VL	Greenish grey speckled light grey. QTZ with pink hue chunks. Green speckles.	150	10	150	0	4	3	2	5	14	15	12.2	12.5	7.0	14.0	15	60.7																					
244.5	2904.3	74.54	885.4	249.5	76.07	1.52	1.54	100.0	1.01	66.3	VL	As above.	60	16	96	0	4	3	4	5	16	15	6.5	13.0	6.3	16.0	15	56.8																					
249.5	2899.9	76.07	884.1	254.0	77.44	1.37	1.30	94.8	0.50	36.4	VL	As above, but quite highly fractured. CLY infilling. Bit jammed.	80	11	118	0	4	3	2	5	14	15	8.0	7.8	6.6	14.0	15	51.4																					
254.0	2896.0	77.44	882.9	257.0	78.35	0.91	0.77	84.2	0.17	18.6	VL	Dark Grey with green, red, and (mostly) white spots, up to 8mm diameter.	60	13	59	0	4	3	2	5	14	15	6.5	5.2	5.8	14.0	15	46.5																					
257.0	2893.4	78.35	882.1	259.5	79.12	0.76	0.90	100.0	0.90	100.0	VL	Not really any infilling. Some bands of more reddish grey rock. Otherwise as above. More competent.	125	1	900	0	4	3	4	6	17	15	10.9	20.2	14.0	17.0	15	77.1																					
259.5	2891.3	79.12	881.5	264.5	80.64	1.52	1.60	100.0	0.53	34.8	VL	Some CLY, CC infilling. Highly fractured. Dark grey with white, green, pink and red spots.	60	24	67	0	4	3	2	5	14	15	6.5	7.5	5.9	14.0	15	48.9																					
264.5	2886.9	80.64	880.2	269.5	82.16	1.52	1.60	100.0	0.97	63.6	VL	As above.	60	13	123	0	4	3	2	5	14	15	6.5	12.5	6.6	14.0	15	54.6																					
269.5	2882.6	82.16	878.8	274.5	83.69	1.52	1.51	99.1	1.51	99.1	VL	As above.	150	4	378	0	4	3	4	6	17	15	12.2	20.0	9.6	17.0	15	73.8																					
274.5	2878.3	83.69	877.5	279.5	85.21	1.52	1.57	100.0	1.57	100.0	VL	As above. Some intermittent redness to rock.	180	2	785	0	4	3	4	6	17	15	13.5	20.2	13.1	17.0	15	78.8																					
279.5	2873.9	85.21	876.2	284.5	86.74	1.52	1.52	99.7	1.52	99.7	VL	As above.	150	4	380	0	4	3	4	6	17	15	12.2	20.1	9.6	17.0	15	73.9																					
284.5	2869.6	86.74	874.9	289.5	88.26	1.52	1.54	100.0	1.54	100.0	VL	As above.	100	5	308	0	4	3	4	5	16	15	9.4	20.2	8.8	16.0	15	69.4																					
289.5	2865.3	88.26	873.6	294.5	89.79	1.52	1.57	100.0	1.57	100.0	VL	As above.	100	2	785	0	4	3	4	6	17	15	9.4	20.2	13.1	17.0	15	74.8																					
294.5	2861.0	89.79	872.2	299.5	91.31	1.52	1.56	100.0	1.56	100.0	VL	Dark grey with green and white speckles. Some bands of greenish rock with lots of QTZ. Some CC and touches of CLY infilling.	150	2	780	0	4	3	4	6	17	15	12.2	20.2	13.1	17.0	15	77.5																					
299.5	2856.6	91.31	870.9	304.5	92.84	1.52	1.46	95.8	1.46	95.8	VL	Dark grey/reddish grey with white and green crystals. Fine grained. Large sections of QTZ.	125	1	1460	0	4	3	4	6	17	15	10.9	19.2	17.2	17.0	15	79.4																					
304.5	2852.3	92.84	869.6	309.5	94.36	1.52	1.52	99.7	1.07	70.2	VL	As above, but highly fractured at the bottom foot.	125	16	95	0	4	3	4	6	17	15	10.9	13.7	6.3	17.0	15	62.9																					

M:\1\01\00102\07\A\Data\WMF Geotech SI - Feb to Apr '06\Drillholes\[DH06-1.xls]Data - Calc Sheet

Drill Hole Number: DH06-1

DRILL RUN DATA											GEOLOGY - COMMENTS	RMR - DATA (BY RUN)									RMR CALCULATIONS (BY RUN)						DISCONTINUITY DATA														PLT STRENGTH DATA / CALCs.					
Depth From (ft)	Elev. From (ft)	Depth From (m)	Elev. From (m)	Depth To (ft)	Depth To (m)	Run Length (m)	Recov. Length (m)	Recov. (%)	RQD Length (m)	RQD (%)	Rock Type (see Leg)	Weathered State, Structure, Color, Grain Size, Rock Material Strength, Rock Type	UCS (Est.) (MPa)	# of Joints	Joint Set Spac. (mm)	Joint Condition Persis- P	Joint Condition Apert- A	Joint Condition Rough R	Joint Condition Infill I	Joint Condition Weath W	Joint Condition TOTAL	Water Rating	RMR-89 UCS Rating	RMR-89 RQD Rating	RMR-89 Joint Spac. Rating	RMR-89 Joint Condition Rating	RMR-89 Water Rating	RMR-89 Total	Depth (m)	Elev. (m)	Alpha (deg.)	Beta (deg.)	Disc. Type	Aper. (mm)	Fill. Type 1 (see Leg)	Fill. Type 2 (see Leg)	Fill. Type 3 (see Leg)	RMR Joint Condition Jc	QTY	Orientation of Slick wrt vertical (degrees)-clockwise from reference line	Sampled?	Orientation Quality	Depth (m)	Elev. (m)	Date Tested	Core Diameter (mm)	Gauge Value (psi)	Gauge Value (kPa)	UCS (Isx24) (MPa)	Strength Designation Grade
309.5	2848.0	94.36	868.3	314.5	95.88	1.52	1.56	100.0	1.11	72.8	VL	Dark grey with dispersed white and green speckles. Fine grained.	200	11	142	0	4	3	4	5	16	15	14.1	14.3	6.9	16.0	15	66.3																				
314.5	2843.6	95.88	867.0	319.5	97.41	1.52	1.52	99.7	1.00	65.6	VL	Grey, fine grained, with small red crystals and larger (up to 1cm) green crystals. A few large white CC crystals near bottom. CC infilling.	125	45	34	0	4	3	4	5	16	15	10.9	12.8	5.5	16.0	15	60.2																				
319.5	2839.3	97.41	865.6	324.5	98.93	1.52	1.55	100.0	1.37	89.9	VL	As above.	100	10	155	0	4	3	4	5	16	15	9.4	17.9	7.0	16.0	15	65.3																				
324.5	2835.0	98.93	864.3	329.5	100.46	1.52	1.56	100.0	1.05	68.9	VL	Some joints slickensides. As above.	100	11	142	0	4	3	4	5	16	15	9.4	13.5	6.9	16.0	15	60.8																				
329.5	2830.6	100.46	863.0	334.5	101.98	1.52	1.52	99.7	1.29	84.6	VL	Dark grey/deep red with crystals from <1mm to 1cm in diameter. Also green and red speckles. Fine grained.	125	8	190	0	4	3	4	5	16	15	10.9	16.7	7.5	16.0	15	66.1																				
334.5	2826.3	101.98	861.7	339.5	103.51	1.52	1.58	100.0	1.40	91.8	VL	Greenish CC infilling. White CC crystals intermittent. As above.	125	8	198	0	4	3	4	5	16	15	10.9	18.3	7.6	16.0	15	67.8																				
339.5	2822.0	103.51	860.4	344.5	105.03	1.52	1.52	99.7	1.52	99.7	VL	As above.	125	1	1520	0	4	3	4	5	16	15	10.9	20.1	17.5	16.0	15	79.6																				
344.5	2817.7	105.03	859.0	349.5	106.55	1.52	1.50	98.4	1.35	88.6	VL	Mostly as above. One band of green rock with lots of pyrite. Carying shades of green, from mint to emerald.	100	6	250	0	4	3	4	5	16	15	9.4	17.6	8.2	16.0	15	66.2																				
349.5	2813.3	106.55	857.7	354.5	108.08	1.52	1.52	99.7	1.17	76.8	VL	Same as above, without green section.	80	17	89	0	4	3	4	6	17	15	8.0	15.1	6.2	17.0	15	61.3																				
354.5	2809.0	108.08	856.4	359.5	109.60	1.52	1.56	100.0	1.26	82.7	VL	As above.	80	9	173	0	4	3	4	6	17	15	8.0	16.3	7.3	17.0	15	63.6																				
359.5	2804.7	109.60	855.1	364.5	111.13	1.52	1.52	99.7	1.52	99.7	VL	As above, but with light grey/green section with lots of QTZ/CC.	125	1	1520	0	4	3	4	5	16	15	10.9	20.1	17.5	16.0	15	79.6																				
364.5	2800.3	111.13	853.8	369.5	112.65	1.52	1.54	100.0	1.54	100.0	VL	Fine grained reddish grey with green, white and red speckles.	80	1	1540	0	4	3	4	6	17	15	8.0	20.2	17.6	17.0	15	77.9																				
369.5	2796.0	112.65	852.4	374.5	114.18	1.52	1.58	100.0	1.45	95.1	VL	Dark grey with hints of red. Fine grained. White and green crystals. One large section of rust-red coloured rock with QTZ and red CLY.	80	4	395	0	4	3	4	6	17	15	8.0	19.1	9.7	17.0	15	68.8																				
374.5	2791.7	114.18	851.1	379.5	115.70	1.52	1.49	97.7	1.49	97.7	VL	As above, but no red section.	100	2	745	0	4	3	4	6	17	15	9.4	19.7	12.8	17.0	15	73.9																				
379.5	2787.3	115.70	849.8	384.5	117.23	1.52	1.54	100.0	1.54	100.0	VL	As above, lots of QTZ.	100	2	770	0	3	3	4	5	15	15	9.4	20.2	13.0	15.0	15	72.6																				
384.5	2783.0	117.23	848.5	389.5	118.75	1.52	1.55	100.0	1.55	100.0	VL	As above.	60	1	1550	0	4	3	4	5	16	15	6.5	20.2	17.7	16.0	15	75.4																				
389.5	2778.7	118.75	847.2	394.5	120.27	1.52	1.52	99.7	1.52	99.7	VL	As above.	100	4	380	0	4	3	4	6	17	15	9.4	20.1	9.6	17.0	15	71.1																				
394.5	2774.4	120.27	845.8	399.5	121.80	1.52	1.51	99.1	1.51	99.1	VL	As above. One section of light greenish grey rock.	100	2	755	0	4	3	4	6	17	15	9.4	20.0	12.9	17.0	15	74.3																				
399.5	2770.0	121.80	844.5	404.5	123.32	1.52	1.61	100.0	1.61	100.0	VL	As above. Greenish grey mixed throughout.	125	3	537	0	4	3	4	5	16	15	10.9	20.2	11.1	16.0	15	73.2																				
404.5	2765.7	123.32	843.2	409.5	124.85	1.52	1.54	100.0	1.42	93.2	VL	As above, without green.	100	5	308	0	4	3	4	6	17	15	9.4	18.6	8.8	17.0	15	68.8																				
409.5	2761.4	124.85	841.9	414.5	126.37	1.52	1.57	100.0	1.35	88.6	VL	As above with one large green section.	100	8	196	0	4	3	4	6	17	15	9.4	17.6	7.5	17.0	15	66.5																				

Knight Piésold CONSULTING

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET
ROCK MASS CLASSIFICATION - RMR 1989

PROJECT: MORRISON COPPER GOLD
Client: PACIFIC BOOKER MINERALS
Drilling Company: GEOTECH DRILLING
Location: GRANISLE, BC
Coordinates : N 6,123,723 m, E 670,576 m

Surface Elevation: 950.0 m / 3,116 ft
Total Depth: 39.5 m / 130 ft
Azimuth: deg
Inclination: 90 deg (down is positive)

Drill Type: HQ Triple Tube
Core Diameter: From 0 to 39.5 m HQ3 61.0 mm
Core Diameter: From to m 45.0 mm

Logged By: LS
Reviewed By: GJ
Date Started: Mar/4/2006
Date Completed: Mar/6/2006

Drill Hole Number: DH06-2

M:\1\01\00102\07\A\Data\WMF Geotech SI - Feb to Apr '06\Drillholes\[DH06-2.xls]Data - Calc Sheet

Drill Hole Number: DH06-2

DRILL RUN DATA											GEOLOGY - COMMENTS		RMR - DATA (BY RUN)								RMR CALCULATIONS (BY RUN)						DISCONTINUITY DATA																PLT STRENGTH DATA / CALCs.							
Depth From	Elev. From	Depth From	Elev. From	Depth To	Depth To	Run Length	Recov. Length	Recov.	RQD Length	RQD	Rock Type	Weathered State, Structure, Color, Grain Size, Rock Material Strength, Rock Type	UCS	# of	Joint Set	Joint Condition						Water Rating	RMR-89 UCS Rating	RMR-89 RQD Rating	RMR-89 Joint Spac. Rating	RMR-89 Joint Condition Rating	RMR-89 Water Rating	RMR-89 Total	Depth	Elev.	Alpha	Beta	Disc. Type	Aper.	Fill. Type 1	Fill. Type 2	Fill. Type 3	RMR Joint Condition Jc	QTY	Orientation of Slick wrt vertical (degrees)- clockwise from reference line	Sampled?	Orientation Quality	Depth	Elev.	Date Tested	Core Diameter	Gauge Value	Gauge Value	UCS	Strength Designation
																Persis-	Apert-	Rough	Infill	Weath	TOTAL																															
(ft)	(ft)	(m)	(m)	(ft)	(m)	(m)	(m)	(%)	(m)	(%)	(see Leg)		(MPa)	Joints	Spac. (mm)	P	A	R	I	W		Grade							(m)	(m)	(deg.)	(deg.)		(mm)	(see Leg)	(see Leg)	(see Leg)			reference line.			(m)	(m)		(mm)	(psi)	(kPa)	(MPa)	Grade
0.0	3116.0	0.00	950.0	27.0	8.23	8.23		0.0		0.0	OB																																							
29.5	3086.5	8.99	941.0	31.0	9.45	0.46	0.45	98.4	0.32	70.0	VL	Silicified/granitized garnet porphyry hem'd and chlo'd grits. Reddish brown and green matrices. QTZ inlared.	80	3	150	0	4	3	4	5	16	15	8.0	13.7	7.0	16.0	15	59.7																											
31.0	3085.0	9.45	940.5	36.0	10.98	1.52	1.55	100.0	0.64	42.0	VL	Sil. C dies cut in top 1'. Reddish brown pink matrix CC veins. Chlo'd grnts.	80	15	103	0	1	3	3	5	12	15	8.0	8.7	6.4	12.0	15	50.1																											
36.0	3080.0	10.98	939.0	37.0	11.28	0.30	0.23	75.4	0.00	0.0	VL	Very broken soft yet hard infill. Bright green same as above.	60	10	23	0	4	3	3	5	15	15	6.5	3.0	5.3	15.0	15	44.8																											
37.0	3079.0	11.28	938.7	41.0	12.50	1.22	1.25	100.0	0.45	36.9	VL	Same as above with CC/QTZ veins. Pyrite CHL on fracs. Large grats up to 1cm diam.	60	15	83	0	1	3	3	5	12	15	6.5	7.9	6.1	12.0	15	47.5																											
41.0	3075.0	12.50	937.5	42.0	12.80	0.30	0.25	82.0	0.00	0.0	VL	Reddish brown matrix. Grat's very small. CC veins almost seems like diff area rock but not enough to tell.	60	10	25	0	4	3	4	5	16	15	6.5	3.0	5.3	16.0	15	45.8																											
42.0	3074.0	12.80	937.2	46.0	14.02	1.22	1.20	98.4	0.82	67.2	VL	Grnts back reddish brown matrix CC veins. Same as above.	70	10	120	0	1	3	3	5	12	15	7.3	13.2	6.6	12.0	15	54.0																											
46.0	3070.0	14.02	936.0	47.5	14.48	0.46	0.45	98.4	0.26	56.9	VL	Same as above.	75	4	113	0	4	4	4	5	17	15	7.7	11.2	6.5	17.0	15	57.4																											
47.5	3068.5	14.48	935.5	51.0	15.55	1.07	1.02	95.6	0.66	61.9	VL	Same as above.	75	2	510	0	4	4	4	5	17	15	7.7	12.1	10.8	17.0	15	62.6																											
51.0	3065.0	15.55	934.5	56.0	17.07	1.52	1.52	99.7	0.54	35.4	VL	Same as above.	75	23	66	0	1	3	3	5	12	15	7.7	7.6	5.9	12.0	15	48.2																											
56.0	3060.0	17.07	932.9	61.0	18.60	1.52	1.52	99.7	0.52	34.1	VL	Same as above. Small green area but most reddish brown.	75	15	101	0	1	3	4	5	13	15	7.7	7.4	6.4	13.0	15	49.4																											
61.0	3055.0	18.60	931.4	65.0	19.82	1.22	1.15	94.3	0.39	32.0	VL	Same as above.	75	13	88	0	4	3	4	5	16	15	7.7	7.1	6.2	16.0	15	52.0																											
65.0	3051.0	19.82	930.2	70.2	21.40	1.59	1.55	97.8	0.98	61.8	VL	Same as above.	75	13	119	0	4	3	4	5	16	15	7.7	12.1	6.6	16.0	15	57.4																											
70.0	3046.0	21.34	928.7	75.3	22.97	1.63	1.57	96.6	0.87	53.5	VL	Same as above. Looks like some bedded SST layers at 72.75'.	75	10	157	0	1	3	3	5	12	15	7.7	10.6	7.1	12.0	15	52.3																											
75.3	3040.7	22.97	927.0	80.5	24.54	1.58	1.56	99.0	1.03	65.3	VL	Same as above. SST intruded by garnet porphyry. Jugs in CC/QTZ.	75	10	156	0	4	3	4	5	16	15	7.7	12.8	7.0	16.0	15	58.5																											
80.5	3035.5	24.54	925.5	84.2	25.67	1.13	1.27	100.0	0.43	38.1	VL	Same as above. Areas that seem SST like??	75	25	51	0	1	3	2	5	11	15	7.7	8.0	5.7	11.0	15	47.4																											
84.2	3031.8	25.67	924.3	86.0	26.22	0.55	0.36	65.6	0.36	65.6	VL	Same as above.	75	2	180	0	4	3	4	5	16	15	7.7	12.8	7.3	16.0	15	58.8																											
86.0	3030.0	26.22	923.8	91.0	27.74	1.52	1.52	99.7	1.09	71.5	VL	Same as above. Some jugs large CC crystals peg?	75	8	190	0	4	4	4	5	17	15	7.7	14.0	7.5	17.0	15	61.1																											
91.0	3025.0	27.74	922.3	96.0	29.27	1.52	1.52	99.7	1.15	75.4	VL	Same as above.	75	8	190	0	4	3	4	5	16	15	7.7	14.8	7.5	16.0	15	60.9																											
96.0	169.5	29.27	920.7	99.0	30.18	0.91	0.83	90.7	0.23	25.1	VL	Same as above.	75	8	104	0	4	3	4	5	16	15	7.7	6.1	6.4	16.0	15	51.2																											
99.0	3017.0	30.18	919.8	101.0	30.79	0.61	0.57	93.5	0.00	0.0	VL	Same as above.	75	10	57	0	1	3	3	5	12	15	7.7	3.0	5.8	12.0	15	43.4																											
101.0	3015.0	30.79	919.2	104.5	31.86	1.07	1.03	96.5	0.20	18.7	VL	Same as above. Very broken.	75	25	41	0	4	3	4	5	16	15	7.7	5.3	5.6	16.0	15	49.5																											
104.5	3011.5	31.86	918.1	109.5	33.38	1.52	1.52	99.7	0.30	19.7	VL	Same as above. Very broken. CC blobs.	75	25	61	0	1	3	2	5	11	15	7.7	5.4	5.8	11.0	15	44.9																											
109.5	3006.5	33.38	916.6	114.5	34.91	1.52	1.55	100.0	0.37	24.3	VL	Same as above in green sploches. CC veins. Vugs.	75	25	62	0	1	3	3	5	12	15	7.7	6.0	5.8	12.0	15	46.5																											
114.5	3001.5	34.91	915.1	119.5	36.43	1.52	1.60	100.0	1.24	81.3	VL	Same as above. More competent.	75	10	160	0	4	3	4	5	16	15	7.7	16.0	7.1	16.0	15	61.8																											
119.5	2996.5	36.43	913.6	124.5	37.96	1.52	1.60	100.0	0.84	55.1	VL	Same as above.	75	16	100	0	1	3	3	5	12	15	7.7	10.9	6.3	12.0	15	51.9																											

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Drill Hole Number: DH06-2

DRILL RUN DATA											GEOLOGY - COMMENTS		RMR - DATA (BY RUN)									RMR CALCULATIONS (BY RUN)						DISCONTINUITY DATA																PLT STRENGTH DATA / CALCs.						
Depth From (ft)	Elev. From (ft)	Depth From (m)	Elev. From (m)	Depth To (ft)	Depth To (m)	Run Length (m)	Recov. Length (m)	Recov. (%)	RQD Length (m)	RQD (%)	Rock Type (see Leg)	Weathered State, Structure, Color, Grain Size, Rock Material Strength, Rock Type	UCS (Est.) (MPa)	# of Joints	Joint Set Spac. (mm)	Joint Condition						Water Rating	RMR-89 UCS Rating	RMR-89 RQD Rating	RMR-89 Joint Spac. Rating	RMR-89 Joint Condition Rating	RMR-89 Water Rating	RMR-89 Total	Depth (m)	Elev. (m)	Alpha (deg.)	Beta (deg.)	Disc. Type	Aper. (mm)	Fill. Type 1 (see Leg)	Fill. Type 2 (see Leg)	Fill. Type 3 (see Leg)	RMR Joint Condition Jc	QTY	Orientation of Slick wrt vertical (degrees)-clockwise from reference line	Sampled?	Orientation Quality	Depth (m)	Elev. (m)	Date Tested	Core Diameter (mm)	Gauge Value (psi)	Gauge Value (kPa)	UCS (Isx24) (MPa)	Strength Designation Grade
																Persis-P	Apert-A	Rough R	Infill I	Weath W	TOTAL																												
124.5	2991.5	37.96	912.0	129.5	39.48	1.52	1.52	99.7	1.29	84.6	VL	Same as above.	75	8	190	0	1	3	3	5	12	15	7.7	16.7	7.5	12.0	15	**58.8**																							
EOH																																																	

Knight Piésold CONSULTING

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET
ROCK MASS CLASSIFICATION - RMR 1989

Drill Hole Number: DH06-3

PROJECT: MORRISON COPPER GOLD
Client: PACIFIC BOOKER MINERALS
Drilling Company: GEOTECH DRILLING
Location: GRANISLE, BC
Coordinates : N 6,123,781 m, E 670,541 m

Surface Elevation: 950.0 m / 3,116 ft
Total Depth: 36.9 m / 121 ft
Azimuth: deg
Inclination: 90 deg (down is positive)

Drill Type: HQ Triple Tube
Core Diameter: From 0 to 36.9 m HQ3 61.0 mm
Core Diameter: From to m 45.0 mm
to m
to m

Logged By: LS
Reviewed By: GJ
Date Started: Mar/2/2006
Date Completed: Mar/4/2006

M:\1\01\00102\07\A\Data\WMF Geotech SI - Feb to Apr '06\Drillholes\[DH06-3.xls]Data - Calc Sheet

Drill Hole Number: DH06-3

DRILL RUN DATA											GEOLOGY - COMMENTS		RMR - DATA (BY RUN)									RMR CALCULATIONS (BY RUN)						DISCONTINUITY DATA																		PLT STRENGTH DATA / CALCs.							
Depth From (ft)	Elev. From (ft)	Depth From (m)	Elev. From (m)	Depth To (ft)	Depth To (m)	Run Length (m)	Recov. Length (m)	Recov. (%)	RQD Length (m)	RQD (%)	Rock Type (see Leg)	Weathered State, Structure, Color, Grain Size, Rock Material Strength, Rock Type	UCS (Est.) (MPa)	# of Joints	Joint Set Spac. (mm)	Joint Condition Persis- P	Joint Condition Apert- A	Joint Condition Rough R	Joint Condition Infill I	Joint Condition Weath W	Joint Condition TOTAL	Water Rating	RMR-89 UCS Rating	RMR-89 RQD Rating	RMR-89 Joint Spac. Rating	RMR-89 Joint Condition Rating	RMR-89 Water Rating	RMR-89 Total	Depth (m)	Elev. (m)	Alpha (deg.)	Beta (deg.)	Disc. Type	Aper. (mm)	Fill. Type 1 (see Leg)	Fill. Type 2 (see Leg)	Fill. Type 3 (see Leg)	RMR Joint Condition Jc	QTY	Orientation of Slick wrt vertical (degrees)- clockwise from reference line	Sampled?	Orientation Quality	Depth (m)	Elev. (m)	Date Tested	Core Diameter (mm)	Gauge Value (psi)	Gauge Value (kPa)	UCS (Isx24) (MPa)	Strength Designation Grade
0.0	3116.0	0.00	950.0	19.0	5.79	5.79		0.0		0.0	OB																																						
21.5	3094.5	6.55	943.4	26.0	7.93	1.37	1.36	99.1	1.25	91.1	VL	FG matrix in alt'd chlod? Garnets (black and yellow green). Matrix is pinkish purple. Possibly not SST. CC veins. Competent.	75	5	272	0	1	1	3	5	10	15	7.7	18.2	8.4	10.0	15	59.2																						
26.0	3090.0	7.93	942.1	31.0	9.45	1.52	1.48	97.1	0.62	40.7	VL	Same as above. Slighthly less competent. Huge QTZ/CC filled area 5cm diamter along a vein.	75	15	99	0	1	3	3	5	12	15	7.7	8.5	6.3	12.0	15	49.4																						
31.0	3085.0	9.45	940.5	36.0	10.98	1.52	1.55	100.0	0.58	38.0	VL	Same as above. Frequent parallel CC veins. CHL/CC on fractures.	75	20	78	0	1	3	3	5	12	15	7.7	8.0	6.0	12.0	15	48.7																						
36.0	3080.0	10.98	939.0	41.0	12.50	1.52	1.52	99.7	0.43	28.2	VL	Same as above. Very broken. Stil alt'd garnets? Throughout.	75	25	61	0	1	3	3	5	12	15	7.7	6.6	5.8	12.0	15	47.0																						
41.0	3075.0	12.50	937.5	46.0	14.02	1.52	1.56	100.0	0.66	43.3	VL	as above	75	12	130	0	1	3	3	5	12	15	7.7	8.9	6.7	12.0	15	50.3																						
46.0	3070.0	14.02	936.0	50.0	15.24	1.22	1.06	86.9	0.20	16.4	VL	Same as above. Till end cast 3" clay alt'd zone very priable.	75	11	96	0	0	3	0	5	8	15	7.7	4.9	6.3	8.0	15	41.9																						
50.0	3066.0	15.24	934.8	55.2	16.83	1.59	1.60	100.0	0.99	62.4	VL	Same as above rock type wise. Top 15" altered to white then beautiful green colours surround CC veins. Some garnets around CC veins. Some garnets around picture broken zones.	75	25	64	0	0	0	0	5	5	15	7.7	12.2	5.9	5.0	15	45.8																						
55.2	3060.8	16.83	933.2	60.3	18.39	1.56	1.56	99.7	0.96	61.4	VL	Same as above. No CLY. CC veins. Light green veins. Some sections very red brown.	75	13	120	0	1	3	3	5	12	15	7.7	12.0	6.6	12.0	15	53.3																						
60.3	3055.7	18.39	931.6	62.0	18.90	0.51	0.51	100.0	0.11	21.6	VL	Reddish brown sections appear no more. Same as above.	75	10	51	0	1	3	3	5	12	15	7.7	5.6	5.7	12.0	15	46.0																						
62.0	3054.0	18.90	931.1	66.0	20.12	1.22	1.25	100.0	0.49	40.2	VL	Same as above.	75	13	96	0	0	3	3	5	11	15	7.7	8.4	6.3	11.0	15	48.3																						
66.0	3050.0	20.12	929.9	71.0	21.65	1.52	1.56	100.0	0.80	52.5	VL	Same as above.	75	15	104	0	1	3	4	5	13	15	7.7	10.4	6.4	13.0	15	52.5																						
71.0	3045.0	21.65	928.4	76.0	23.17	1.52	1.52	99.7	1.16	76.1	VL	Same as above. More competent.	75	12	127	0	4	3	4	5	16	15	7.7	14.9	6.7	16.0	15	60.3																						
76.0	3040.0	23.17	926.8	81.0	24.70	1.52	1.50	98.4	0.90	59.0	VL	Same as above, then changes to reddish brown ST-like rock of DH06-7 then back to GP (?). End weathered zones/breccia zones.	75	10	150	0	0	1	2	5	8	15	7.7	11.6	7.0	8.0	15	49.2																						
81.0	3035.0	24.70	925.3	86.0	26.22	1.52	1.48	97.1	1.33	87.2	VL	Same as above. Reddish brown weathered back to GP? Rethink DH06-7.	75	4	370	0	1	3	3	5	12	15	7.7	17.3	9.5	12.0	15	61.4																						
86.0	3030.0	26.22	923.8	91.0	27.74	1.52	1.52	99.7	1.09	71.5	VL	Same as above. Alt'd grats ham'd chlo'd CC veins.	75	11	138	0	4	3	4	5	16	15	7.7	14.0	6.8	16.0	15	59.5																						
91.0	3025.0	27.74	922.3	95.5	29.12	1.37	1.36	99.1	0.52	37.9	VL	Same as above. Clay on fracs. Some sections more alt'd.	75	25	54	0	1	3	0	5	9	15	7.7	8.0	5.7	9.0	15	45.4																						
95.5	3020.5	29.12	920.9	99.5	30.34	1.22	1.40	100.0	0.70	57.4	VL	Same as above.	75	15	93	0	4	3	3	5	15	15	7.7	11.3	6.3	15.0	15	55.2																						
99.5	3016.5	30.34	919.7	102.0	31.10	0.76	0.70	91.8	0.10	13.1	VL	Same as above.	75	15	47	0	4	3	2	5	14	15	7.7	4.5	5.6	14.0	15	46.8																						
102.0	169.5	31.10	918.9	106.0	32.32	1.22	1.24	100.0	0.88	72.2	VL	Same as above. Rock has lost pinkish tinge. Still chlo'd some greenish grey.	75	6	207	0	0	1	2	5	8	15	7.7	14.1	7.7	8.0	15	52.4																						
106.0	3010.0	32.32	917.7	111.0	33.84	1.52	1.47	96.4	0.85	55.8	VL	Same as above.	75	12	123	0	0	1	3	5	9	15	7.7	11.0	6.6	9.0	15	49.3																						
111.0	3005.0	33.84	916.2	114.0	34.76	0.91	0.88	96.2	0.53	57.9	VL	Same as above. Less CC veins.	75	8	110	0	1	1	2	5	9	15	7.7	11.4	6.5	9.0	15	49.5																						
114.0	3002.0	34.76	915.2	116.0	35.37	0.61	0.62	100.0	0.16	26.2	VL	Same as above. Chlo'd.	75	5	124	0	4	3	3	5	15	15	7.7	6.3	6.6	15.0	15	50.6																						

M:\1\01\00102\07\A\Data\WMF Geotech SI - Feb to Apr '06\Drillholes\[DH06-3.xls]Data - Calc Sheet

Drill Hole Number: DH06-3

DRILL RUN DATA											GEOLOGY - COMMENTS		RMR - DATA (BY RUN)									RMR CALCULATIONS (BY RUN)						DISCONTINUITY DATA																PLT STRENGTH DATA / CALCs.						
Depth From	Elev. From	Depth From	Elev. From	Depth To	Depth To	Run Length	Recov. Length	Recov.	RQD Length	RQD	Rock Type	Weathered State, Structure, Color, Grain Size, Rock Material Strength, Rock Type	UCS	# of	Joint Set	Joint Condition						Water Rating	RMR-89 UCS Rating	RMR-89 RQD Rating	RMR-89 Joint Spac. Rating	RMR-89 Joint Condition Rating	RMR-89 Water Rating	**RMR-89 Total**	Depth	Elev.	Alpha	Beta	Disc. Type	Aper.	Fill. Type 1	Fill. Type 2	Fill. Type 3	RMR Joint Condition Jc	QTY	Orientation of Slick wrt vertical (degrees)- clockwise from reference line	Sampled?	Orientation Quality	Depth	Elev.	Date Tested	Core Diameter	Gauge Value	Gauge Value	UCS (Isx24)	Strength Designation
																Persis-	Apert-	Rough	Infill	Weath	TOTAL																												
													(Est.)	Joints	Spac.	P	A	R	I	W																															
(ft)	(ft)	(m)	(m)	(ft)	(m)	(m)	(m)	(%)	(m)	(%)	(see Leg)		(MPa)		(mm)							Rating	Rating	Rating	Rating	Rating	Rating		(m)	(m)	(deg.)	(deg.)		(mm)	(see Leg)	(see Leg)	(see Leg)	Jc					(m)	(m)		(mm)	(psi)	(kPa)	(MPa)	Grade
116.0	3000.0	35.37	914.6	121.0	36.89	1.52	1.54	100.0	0.87	57.1	VL	Fg grey green matrix. Chlo'd grts/? CC veins/ Bl veins.	75	12	128	0	4	1	3	5	13	15	7.7	11.3	6.7	13.0	15	**53.6**																								
EOH																																																

Knight Piésold CONSULTING

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET
ROCK MASS CLASSIFICATION - RMR 1989

Drill Hole Number: DH06-4

PROJECT: MORRISON COPPER GOLD
Client: PACIFIC BOOKER MINERALS
Drilling Company: GEOTECH DRILLING
Location: GRANISLE, BC
Coordinates : N 6,123,060 m, E 670,997 m

Surface Elevation: 983.0 m (3,224 ft)
Total Depth: 41.5 m (136 ft)
Azimuth: deg
Inclination: 90 deg (down is positive)

Drill Type: HQ Triple Tube
Core Diameter: From 0 to 41.5 m HQ3 61.0 mm
Core Diameter: From to m to m 45.0 mm
to m
to m

Logged By: LS
Reviewed By: GJ
Date Started: Mar/7/2006
Date Completed: Mar/9/2006

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Drill Hole Number: DH06-4

DRILL RUN DATA											GEOLOGY - COMMENTS		RMR - DATA (BY RUN)									RMR CALCULATIONS (BY RUN)						DISCONTINUITY DATA																	PLT STRENGTH DATA / CALCs.							
Depth From (ft)	Elev. From (ft)	Depth From (m)	Elev. From (m)	Depth To (ft)	Depth To (m)	Run Length (m)	Recov. Length (m)	Recov. (%)	RQD Length (m)	RQD (%)	Rock Type (see Leg)	Weathered State, Structure, Color, Grain Size, Rock Material Strength, Rock Type	UCS (Est.) (MPa)	# of Joints	Joint Set Spac. (mm)	Joint Condition: Persis- P	Apert- A	Rough R	Infill I	Weath W	TOTAL	Water Rating	RMR-89 UCS Rating	RMR-89 RQD Rating	RMR-89 Joint Spac. Rating	RMR-89 Joint Condition Rating	RMR-89 Water Rating	RMR-89 Total	Depth (m)	Elev. (m)	Alpha (deg.)	Beta (deg.)	Disc. Type	Aper. (mm)	Fill. Type 1 (see Leg)	Fill. Type 2 (see Leg)	Fill. Type 3 (see Leg)	RMR Joint Condition Jc	QTY	Orientation of Slick wrt vertical (degrees)- clockwise from reference line.	Sampled?	Orientation Quality	Depth (m)	Elev. (m)	Date Tested	Core Diameter (mm)	Gauge Value (psi)	Gauge Value (kPa)	UCS (Isx24) (MPa)	Strength Designation Grade
0.0	3224.2	0.00	983.0	30.0	9.15	9.15		0.0		0.0	OB																																						
34.5	3189.7	10.52	972.5	36.0	10.98	0.46	0.40	87.5	0.00	0.0	LM	FG Grey rock han/lim on fracs. CC vein. Very broken.	75	25	16	0	4	1	4	5	14	15	7.7	3.0	5.2	14.0	15	44.9																						
36.0	3188.2	10.98	972.0	41.0	12.50	1.52	1.53	100.0	0.43	28.2	LM	Sam as above.	75	25	61	0	1	1	2	5	9	15	7.7	6.6	5.8	9.0	15	44.0																						
41.0	3183.2	12.50	970.5	46.0	14.02	1.52	0.89	58.4	0.00	0.0	LM	Clay seam driller noted. Also clay at end of run.	75	25	36	0	0	1	0	3	4	15	7.7	3.0	5.5	4.0	15	35.1																						
46.0	3178.2	14.02	969.0	51.0	15.55	1.52	1.45	95.1	0.24	15.7	LM	Clay then green SST then back to fg grey sst. Hem/lim on fracs. Clay zone very soft. Possible fossils.	50	25	58	0	0	1	0	3	4	15	5.7	4.9	5.8	4.0	15	35.3																						
51.0	3173.2	15.55	967.5	54.5	16.62	1.07	1.05	98.4	0.26	24.4	LM	y fg sst hem/liim on fracs. Very brok	60	25	42	0	0	1	0	5	6	15	6.5	6.0	5.6	6.0	15	39.1																						
54.5	3169.7	16.62	966.4	59.5	18.14	1.52	1.48	97.1	0.25	16.4	LM	Grey fg cc veins. Trace fossils. SST/Siltstone.	75	25	59	0	1	1	2	5	9	15	7.7	4.9	5.8	9.0	15	42.4																						
59.5	3164.7	18.14	964.9	61.5	18.75	0.61	0.58	95.1	0.00	0.0	LM	Grey fg very broken. CC on fracs. Trace fossils.	50	25	23	0	1	1	4	5	11	15	5.7	3.0	5.3	11.0	15	40.0																						
61.5	3162.7	18.75	964.3	63.5	19.36	0.61	0.61	100.0	0.00	0.0	LM	Grey SST/siltstone. CC veins. Green clay filled fracture.	50	15	41	0	0	1	0	5	6	15	5.7	3.0	5.6	6.0	15	35.2																						
63.5	3160.7	19.36	963.6	67.5	20.58	1.22	1.17	95.9	0.37	30.3	LM	Grey SST/Siltstone. CC veins. Large green clay zone ~15cm wide.	60	25	47	0	0	1	0	5	6	15	6.5	6.9	5.6	6.0	15	40.0																						
67.5	3156.7	20.58	962.4	70.0	21.34	0.76	0.71	93.2	0.28	36.7	LM	Grey sst/siltstone in area of courser grey sst. CC on fracs.	75	15	47	0	4	1	4	5	14	15	7.7	7.8	5.6	14.0	15	50.1																						
70.0	3154.2	21.34	961.7	74.5	22.71	1.37	1.35	98.4	0.33	24.1	LM	FG grey SST/siltstone with large clay (green seam). CC on fracs.	75	23	59	0	0	1	0	5	6	15	7.7	6.0	5.8	6.0	15	40.4																						
74.5	3149.7	22.71	960.3	79.5	24.24	1.52	1.52	99.7	0.83	54.4	LM	Same as above, no clay.	75	15	101	0	1	1	4	5	11	15	7.7	10.8	6.4	11.0	15	50.8																						
79.5	3144.7	24.24	958.8	84.5	25.76	1.52	1.52	99.7	0.32	21.0	LM	Same as above. Less competent. Mor CC veins. Some bands of fg green rock towards end.	75	25	61	0	1	1	3	5	10	15	7.7	5.6	5.8	10.0	15	44.0																						
84.5	3139.7	25.76	957.2	88.5	26.98	1.22	1.07	87.7	0.50	41.0	LM	Same as above. Clay breccia towards end.	60	20	54	0	0	1	0	5	6	15	6.5	8.5	5.7	6.0	15	41.7																						
88.5	3135.7	26.98	956.0	90.5	27.59	0.61	0.53	86.9	0.00	0.0	LM	Same as above. Clay on fracs.	75	20	27	0	0	1	0	5	6	15	7.7	3.0	5.4	6.0	15	37.0																						
90.5	3133.7	27.59	955.4	94.5	28.81	1.22	1.17	95.9	0.37	30.3	LM	Same as above. Lost core clay zone washed away.	70	20	59	0	0	1	0	5	6	15	7.3	6.9	5.8	6.0	15	40.9																						
94.5	3129.7	28.81	954.2	96.5	29.42	0.61	0.53	86.9	0.00	0.0	LM	Same as above. Breccia zone at top.	75	15	35	0	4	1	4	5	14	15	7.7	3.0	5.5	14.0	15	45.1																						
96.5	3127.7	29.42	953.6	98.0	29.88	0.46	0.46	100.0	0.14	30.6	LM	Same as above.	75	15	31	0	1	1	3	5	10	15	7.7	6.9	5.4	10.0	15	45.0																						
98.0	169.5	29.88	953.1	101.5	30.95	1.07	1.05	98.4	0.58	54.4	LM	Same as above. Large vug w QTZ crystals. Clay on fracs. Shear zone near top. One xH is 1.5" across with perfect planes.	75	25	42	0	0	1	0	5	6	15	7.7	10.8	5.6	6.0	15	45.0																						
101.5	3122.7	30.95	952.1	106.0	32.32	1.37	1.36	99.1	0.73	53.2	LM	Same as above. No clay or qtz filled vugs.	75	25	54	0	4	1	4	5	14	15	7.7	10.6	5.7	14.0	15	53.0																						
106.0	3118.2	32.32	950.7	111.0	33.84	1.52	1.47	96.4	0.78	51.2	LM	Same as above. Clay in fracs. Breccia at end.	75	20	74	0	0	1	0	5	6	15	7.7	10.2	6.0	6.0	15	44.9																						
111.0	3113.2	33.84	949.2	116.0	35.37	1.52	1.54	100.0	0.78	51.2	LM	Same as above. Some cg sst sections. Some green CLY on fracs. Larger CC veins. Trace fossils?	75	16	96	0	1	1	2	5	9	15	7.7	10.2	6.3	9.0	15	48.2																						
116.0	3108.2	35.37	947.6	121.0	36.89	1.52	1.49	97.7	0.90	59.0	LM	Same as above with cg sst sections greenish in colour. Trace fossils. CC veins.	75	15	99	0	1	1	3	5	10	15	7.7	11.6	6.3	10.0	15	50.6																						

M:\1\01\00102\07\A\Data\WMF Geotech SI - Feb to Apr '06\Drillholes\[DH06-4.xls]Data - Calc Sheet

Drill Hole Number: DH06-4

DRILL RUN DATA											GEOLOGY - COMMENTS		RMR - DATA (BY RUN)									RMR CALCULATIONS (BY RUN)						DISCONTINUITY DATA																PLT STRENGTH DATA / CALCs.						
Depth From (ft)	Elev. From (ft)	Depth From (m)	Elev. From (m)	Depth To (ft)	Depth To (m)	Run Length (m)	Recov. Length (m)	Recov. (%)	RQD Length (m)	RQD (%)	Rock Type (see Leg)	Weathered State, Structure, Color, Grain Size, Rock Material Strength, Rock Type	UCS (Est.) (MPa)	# of Joints	Joint Set Spac. (mm)	Joint Condition						Water Rating	RMR-89 UCS Rating	RMR-89 RQD Rating	RMR-89 Joint Spac. Rating	RMR-89 Joint Condition Rating	RMR-89 Water Rating	RMR-89 Total	Depth (m)	Elev. (m)	Alpha (deg.)	Beta (deg.)	Disc. Type	Aper. (mm)	Fill. Type 1 (see Leg)	Fill. Type 2 (see Leg)	Fill. Type 3 (see Leg)	RMR Joint Condition Jc	QTY	Orientation of Slick wrt vertical (degrees)-clockwise from reference line	Sampled?	Orientation Quality	Depth (m)	Elev. (m)	Date Tested	Core Diameter (mm)	Gauge Value (psi)	Gauge Value (kPa)	UCS (Isx24) (MPa)	Strength Designation Grade
																Persis-P	Apert-A	Rough R	Infill I	Weath W	TOTAL																												
121.0	3103.2	36.89	946.1	126.0	38.41	1.52	1.50	98.4	0.87	57.1	LM	Same as before, some with greenish tinge. CC veins. Clay zone.	60	13	115	0	0	1	0	5	6	15	6.5	11.3	6.5	6.0	15	45.3																							
126.0	3098.2	38.41	944.6	131.0	39.94	1.52	1.52	99.7	0.89	58.4	VL	CG sst greenish grey. Zones of microconglomerate. Black phenocrysts.	60	15	101	0	0	3	0	5	8	15	6.5	11.5	6.4	8.0	15	47.3																							
131.0	3093.2	39.94	943.1	136.0	41.46	1.52	1.52	99.7	1.45	95.1	VL/LM	Congl at top 2.5'. Then siltstone. Grey black with trace fossils and CC veins.	75	9	169	0	4	3	4	5	16	15	7.7	19.1	7.2	16.0	15	64.9																							
EOH																																																

Knight Piésold CONSULTING

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET
ROCK MASS CLASSIFICATION - RMR 1989

PROJECT: MORRISON COPPER GOLD
Client: PACIFIC BOOKER MINERALS
Drilling Company: GEOTECH DRILLING
Location: GRANISLE, BC
Coordinates : N 6,122,655 m, E 671,486 m

Surface Elevation: 960.0 m (3,149 ft)
Total Depth: 36.7 m (120 ft)
Azimuth: deg
Inclination: 90 deg (down is positive)

Drill Type: HQ Triple Tube
Core Diameter: From 0 to 36.7 m HQ3 61.0 mm
Core Diameter: From to m 45.0 mm

Logged By: LS
Reviewed By: GJ
Date Started: Mar/9/2006
Date Completed: Mar/11/2006

Drill Hole Number: DH06-6

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Drill Hole Number: DH06-6

DRILL RUN DATA											GEOLOGY - COMMENTS		RMR - DATA (BY RUN)									RMR CALCULATIONS (BY RUN)						DISCONTINUITY DATA																PLT STRENGTH DATA / CALCs.							
Depth From (ft)	Elev. From (ft)	Depth From (m)	Elev. From (m)	Depth To (ft)	Depth To (m)	Run Length (m)	Recov. Length (m)	Recov. (%)	RQD Length (m)	RQD (%)	Rock Type (see Leg)	Weathered State, Structure, Color, Grain Size, Rock Material Strength, Rock Type	UCS (Est.) (MPa)	# of Joints	Joint Set Spac. (mm)	Joint Condition: Persis- P	Apert- A	Rough R	Infill I	Weath W	TOTAL	Water Rating	RMR-89 UCS Rating	RMR-89 RQD Rating	RMR-89 Joint Spac. Rating	RMR-89 Joint Condition Rating	RMR-89 Water Rating	RMR-89 Total	Depth (m)	Elev. (m)	Alpha (deg.)	Beta (deg.)	Disc. Type	Aper. (mm)	Fill. Type 1 (see Leg)	Fill. Type 2 (see Leg)	Fill. Type 3 (see Leg)	RMR Joint Condition Jc	QTY	Orientation of Slick wrt vertical (degrees)- clockwise from reference line.	Sampled?	Orientation Quality	Depth (m)	Elev. (m)	Date Tested	Core Diameter (mm)	Gauge Value (psi)	Gauge Value (kPa)	UCS (Isx24) (MPa)	Strength Designation Grade
0.0	3148.8	0.00	960.0	17.0	5.18	5.18		0.0		0.0	OB																																					
19.5	3129.3	5.95	954.1	21.5	6.55	0.61	0.61	100.0	0.15	24.6	VL	Dark reddish brown (burgundy). FG rock. CC veins. Weathered at top.	60	9	68	0	1	1	3	5	10	15	6.5	6.0	5.9	10.0	15	43.5																					
21.5	3127.3	6.55	953.4	26.0	7.93	1.37	1.30	94.8	0.10	7.3	VL	Same as above. Shear zones. Some course sections.	60	25	52	0	1	3	3	5	12	15	6.5	3.8	5.7	12.0	15	43.0																					
26.0	3122.8	7.93	952.1	31.0	9.45	1.52	1.50	98.4	0.35	23.0	VL	Same as above. Microconglomerate then graded fract to siltstone.	60	25	60	0	1	3	2	5	11	15	6.5	5.8	5.8	11.0	15	44.1																					
31.0	3117.8	9.45	950.5	36.0	10.98	1.52	1.52	99.7	0.80	52.5	VL	Same as above. With microfaults and small breccia zones.	60	20	76	0	1	3	2	5	11	15	6.5	10.4	6.0	11.0	15	49.0																					
36.0	3112.8	10.98	949.0	39.0	11.89	0.91	0.90	98.4	0.11	12.0	VL	bove. Tiny microfaults. CC veins. Ba	60	20	45	0	1	3	2	5	11	15	6.5	4.4	5.6	11.0	15	42.5																					
39.0	3109.8	11.89	948.1	44.0	13.41	1.52	1.45	95.1	0.23	15.1	VL	Same as above. Dark red brown SST/Siltstone. C and fg sections.	70	25	58	0	4	3	4	5	16	15	7.3	4.8	5.8	16.0	15	48.8																					
44.0	3104.8	13.41	946.6	49.0	14.94	1.52	1.55	100.0	0.18	11.8	VL	Same as above.	70	25	62	0	4	3	2	5	14	15	7.3	4.4	5.8	14.0	15	46.5																					
49.0	3099.8	14.94	945.1	54.0	16.46	1.52	1.50	98.4	0.12	7.9	VL	Same as above.	70	25	60	0	4	3	2	5	14	15	7.3	3.9	5.8	14.0	15	46.0																					
54.0	3094.8	16.46	943.5	59.0	17.99	1.52	1.49	97.7	0.00	0.0	VL	Same as above.	70	25	60	0	4	3	2	5	14	15	7.3	3.0	5.8	14.0	15	45.1																					
59.0	3089.8	17.99	942.0	64.0	19.51	1.52	1.50	98.4	1.01	66.3	VL	Same as above.	70	20	75	0	4	3	2	5	14	15	7.3	13.0	6.0	14.0	15	55.3																					
64.0	3084.8	19.51	940.5	69.0	21.04	1.52	1.52	99.7	0.70	45.9	VL	Same as above.	70	21	72	0	4	3	4	5	16	15	7.3	9.3	6.0	16.0	15	53.6																					
69.0	3079.8	21.04	939.0	73.0	22.26	1.22	1.22	100.0	0.14	11.5	VL	Same as above.	70	25	49	0	1	3	2	5	11	15	7.3	4.3	5.7	11.0	15	43.3																					
73.0	3075.8	22.26	937.7	76.0	23.17	0.91	0.90	98.4	0.20	21.9	VL	Same as above.	70	13	69	0	4	3	4	5	16	15	7.3	5.7	5.9	16.0	15	49.9																					
76.0	3072.8	23.17	936.8	79.5	24.24	1.07	1.06	99.3	0.58	54.4	VL	Same as above.	75	15	71	0	4	3	4	5	16	15	7.7	10.8	6.0	16.0	15	55.4																					
79.5	3069.3	24.24	935.8	81.0	24.70	0.46	0.44	96.2	0.19	41.5	VL	Same as above.	75	5	88	0	4	1	4	5	14	15	7.7	8.6	6.2	14.0	15	51.4																					
81.0	3067.8	24.70	935.3	86.0	26.22	1.52	1.49	97.7	0.60	39.4	VL	Same as above.	80	22	68	0	4	1	4	5	14	15	8.0	8.2	5.9	14.0	15	51.2																					
86.0	3062.8	26.22	933.8	91.0	27.74	1.52	1.52	99.7	0.67	44.0	VL	Same as above.	80	20	76	0	4	3	4	5	16	15	8.0	9.0	6.0	16.0	15	54.0																					
91.0	3057.8	27.74	932.3	94.0	28.66	0.91	0.91	99.5	0.00	0.0	VL	Same as above.	80	25	36	0	4	1	4	5	14	15	8.0	3.0	5.5	14.0	15	45.5																					
94.0	169.5	28.66	931.3	99.0	30.18	1.52	1.52	99.7	0.54	35.4	VL	Same as above.	80	20	76	0	4	3	4	5	16	15	8.0	7.6	6.0	16.0	15	52.7																					
99.0	3049.8	30.18	929.8	104.0	31.71	1.52	1.52	99.7	0.71	46.6	VL	Same as above, with some bands of lighter coloured matrix. Hem on fracs.	75	15	101	0	1	3	2	5	11	15	7.7	9.4	6.4	11.0	15	49.4																					
104.0	3044.8	31.71	928.3	109.0	33.23	1.52	1.52	99.7	0.99	64.9	VL	Same as above.	75	15	101	0	1	3	2	5	11	15	7.7	12.7	6.4	11.0	15	52.7																					
109.0	3039.8	33.23	926.8	112.5	34.30	1.07	1.05	98.4	0.49	45.9	VL	Same as above, with CLY zone.	60	13	81	0	0	3	0	5	8	15	6.5	9.3	6.1	8.0	15	44.9																					
112.5	3036.3	34.30	925.7	116.0	35.37	1.07	1.04	97.5	0.34	31.9	VL	Same as above. More CC veins.	60	10	104	0	4	3	4	5	16	15	6.5	7.1	6.4	16.0	15	51.0																					
116.0	3032.8	35.37	924.6	120.5	36.74	1.37	1.35	98.4	0.52	37.9	VL	Same as above. Some lighter coloured zones. Some cg zones. CLY, Breccia at bottom.	60	10	135	0	0	1	0	5	6	15	6.5	8.0	6.8	6.0	15	42.3																					
EOH																																																

Knight Piésold CONSULTING

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET
ROCK MASS CLASSIFICATION - RMR 1989

Drill Hole Number: DH06-7

PROJECT: MORRISON COPPER GOLD
Client: PACIFIC BOOKER MINERALS
Drilling Company: GEOTECH DRILLING
Location: GRANISLE, BC
Coordinates : N 6,122,667 m, E 671,775 m

Surface Elevation: 993.0 m / 3,257 ft
Total Depth: 43.3 m / 142 ft
Azimuth: deg
Inclination: 90 deg (down is positive)

Drill Type: HQ Triple Tube
Core Diameter: From 0 to 43.3 m HQ3 61.0 mm
Core Diameter: From to m 45.0 mm
to m
to m

Logged By: LS
Reviewed By: GJ
Date Started: Feb/27/2006
Date Completed: Mar/1/2006

M:\1\01\00102\07\A\Data\WMF Geotech SI - Feb to Apr '06\Drillholes\[DH06-7.xls]Data - Calc Sheet

Drill Hole Number: DH06-7

DRILL RUN DATA											GEOLOGY - COMMENTS		RMR - DATA (BY RUN)										RMR CALCULATIONS (BY RUN)						DISCONTINUITY DATA															PLT STRENGTH DATA / CALCS.							
Depth From	Elev. From	Depth From	Elev. From	Depth To	Depth To	Run Length	Recov. Length	Recov.	RQD Length	RQD	Rock Type	Weathered State, Structure, Color, Grain Size, Rock Material Strength, Rock Type	UCS (Est.)	# of	Joint Set	Joint Condition							Water Rating	RMR-89 UCS	RMR-89 RQD	RMR-89 Joint	RMR-89 Joint	RMR-89 Water	RMR-89	Depth	Elev.	Alpha	Beta	Disc.	Aper.	Fill. Type 1	Fill. Type 2	Fill. Type 3	RMR Joint	QTY	Orientation of Slick wrt vertical (degrees)- clockwise from reference line	Sampled?	Orientation Quality	Depth	Elev.	Date Tested	Core Diameter	Gauge Value	Gauge Value	UCS (Isx24)	Strength Designation
																Persis-	Apert-	Rough	Infill	Weath	TOTAL																												
																P	A	R	I	W																															
(ft)	(ft)	(m)	(m)	(ft)	(m)	(m)	(m)	(%)	(m)	(%)	(see Leg)		(MPa)	Joints	Spac. (mm)								Rating	Rating	Spac. Rating	Condition Rating	Rating	Total	(m)	(m)	(deg.)	(deg.)	Type	(mm)	(see Leg)	(see Leg)	(see Leg)	Jc					(m)	(m)		(mm)	(psi)	(kPa)	(MPa)	Grade
0.0	3257.0	0.00	993.0	35.0	10.67	10.67		0.0		0.0	OB																																						
40.0	3217.0	12.20	980.8	42.0	12.80	0.61	0.30	49.2	0.11	18.0	VL	Dark brownish red siltstone. Very fractured. CC veins. FG.	75	15	20	0	4	3	4	5	16	15	7.7	5.2	5.3	16.0	15	49.1																								
42.0	3215.0	12.80	980.2	47.0	14.33	1.52	1.51	99.1	1.23	80.7	VL	More competnet. CC veins throughout. FG dark redbrown matrix with tiny clasts.	75	15	101	0	4	3	4	5	16	15	7.7	15.9	6.4	16.0	15	60.9																								
47.0	3210.0	14.33	978.7	52.0	15.85	1.52	1.52	99.7	0.81	53.1	VL	Same as above. More SST'ish	75	25	61	0	4	3	2	5	14	15	7.7	10.5	5.8	14.0	15	53.0																								
52.0	3205.0	15.85	977.1	57.0	17.38	1.52	1.48	97.1	0.68	44.6	VL	Same as above. Broken zones.	75	25	59	0	4	3	4	5	16	15	7.7	9.1	5.8	16.0	15	53.6																								
57.0	3200.0	17.38	975.6	62.0	18.90	1.52	0.83	54.4	0.00	0.0	VL	ame as above. Very broken. Lost co	75	25	33	0	4	3	4	5	16	15	7.7	3.0	5.5	16.0	15	47.1																								
62.0	3195.0	18.90	974.1	67.0	20.43	1.52	0.68	44.6	0.00	0.0	VL	Same as above. Lost core. Broken zones.	75	25	27	0	4	3	2	5	14	15	7.7	3.0	5.4	14.0	15	45.0																								
67.0	3190.0	20.43	972.6	70.0	21.34	0.91	0.80	87.5	0.00	0.0	VL	Same as above. Broken zones.	75	25	32	0	4	3	2	5	14	15	7.7	3.0	5.4	14.0	15	45.1																								
70.0	3187.0	21.34	971.7	72.0	21.95	0.61	0.60	98.4	0.00	0.0	VL	Same as above.	75	25	24	0	4	3	2	5	14	15	7.7	3.0	5.3	14.0	15	45.0																								
72.0	3185.0	21.95	971.0	75.0	22.87	0.91	0.65	71.1	0.11	12.0	VL	Clay at end. Lost core. Chocolate milk return for all of above.	60	25	26	0	0	3	0	5	8	15	6.5	4.4	5.4	8.0	15	39.2																								
75.0	3182.0	22.87	970.1	77.0	23.48	0.61	0.61	100.0	0.23	37.7	VL	Same as above. No CLY.	75	10	61	0	4	3	4	5	16	15	7.7	8.0	5.8	16.0	15	52.5																								
77.0	3180.0	23.48	969.5	81.0	24.70	1.22	0.75	61.5	0.00	0.0	VL	Same as above. Lighter return.	75	25	30	0	1	3	0	5	9	15	7.7	3.0	5.4	9.0	15	40.1																								
81.0	3176.0	24.70	968.3	86.0	26.22	1.52	1.52	99.7	0.80	52.5	VL	Same as above. Much more competent.	75	13	117	0	4	3	4	5	16	15	7.7	10.4	6.6	16.0	15	55.6																								
86.0	3171.0	26.22	966.8	89.0	27.13	0.91	0.80	87.5	0.10	10.9	VL	Same as above. Clay at bottom.	60	15	53	0	0	3	0	5	8	15	6.5	4.3	5.7	8.0	15	39.5																								
89.0	3168.0	27.13	965.9	92.0	28.05	0.91	0.92	100.0	0.49	53.6	VL	Chocolate brown return again. Same as above. Less CLY.	75	10	92	0	0	3	0	5	8	15	7.7	10.6	6.2	8.0	15	47.5																								
92.0	3165.0	28.05	965.0	97.0	29.57	1.52	1.52	99.7	0.33	21.6	VL/ZS	Same as above until 93', then changes to grey green SST, CC veins. CLY on fracs. Fault at 93'.	75	25	61	0	1	3	2	5	11	15	7.7	5.6	5.8	11.0	15	45.1																								
97.0	3160.0	29.57	963.4	102.0	31.10	1.52	1.48	97.1	0.59	38.7	ZS/SS/BX	FG greenish rock. CC veins. Breccia zones/congl zones.	70	20	74	0	4	3	4	5	16	15	7.3	8.1	6.0	16.0	15	52.4																								
102.0	3155.0	31.10	961.9	107.0	32.62	1.52	1.52	99.7	0.97	63.6	ZS/SS/BX	Green SST with CC veins. Congl/breccia zones up at top 1'. Same as above.	75	20	76	0	4	3	4	5	16	15	7.7	12.5	6.0	16.0	15	57.2																								
107.0	3150.0	32.62	960.4	112.0	34.15	1.52	1.48	97.1	0.91	59.7	ZS/SS/BX	Same as above. Green SST/Siltstone with conglomerate sections. CC veins.	75	13	114	0	4	3	2	5	14	15	7.7	11.7	6.5	14.0	15	54.9																								
112.0	169.5	34.15	958.9	117.0	35.67	1.52	1.56	100.0	0.72	47.2	ZS/SS/BX	Same as above. Slickensides on fracs.	75	22	71	0	4	0	3	5	12	15	7.7	9.5	6.0	12.0	15	50.1																								
117.0	3140.0	35.67	957.3	122.0	37.20	1.52	1.52	99.7	0.63	41.3	ZS/SS/BX	Same as above. Zone of microconglomerate near bottom. Very veined.	75	25	61	0	1	0	2	5	8	15	7.7	8.6	5.8	8.0	15	45.0																								
122.0	3135.0	37.20	955.8	127.0	38.72	1.52	1.52	99.7	0.66	43.3	ZS/SS/BX	Same as above. Shear zones/broken zones. Congl zones throughout.	75	25	61	0	4	0	2	5	11	15	7.7	8.9	5.8	11.0	15	48.4																								
127.0	3130.0	38.72	954.3	132.0	40.24	1.52	1.56	100.0	0.81	53.1	ZS/SS/BX	Same as above. FG green SST/Siltstone with conglomerate zones. CC veins. Chl alt.	75	17	92	0	4	1	4	5	14	15	7.7	10.5	6.2	14.0	15	53.4																								
132.0	3125.0	40.24	952.8	137.0	41.77	1.52	1.46	95.8	0.90	59.0	ZS/SS/BX	Same as above. Completely congl now. CC veins.	75	15	97	0	4	3	2	5	14	15	7.7	11.6	6.3	14.0	15	54.6																								
137.0	3120.0	41.77	951.2	142.0	43.29	1.52	1.50	98.4	0.79	51.8	ZS/SS/BX	Same as above. Turns back to SST at 138'. CC veins. FG, green.	75	25	60	0	1	3	3	5	12	15	7.7	10.3	5.8	12.0	15	50.8																								

Knight Piésold CONSULTING

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET
ROCK MASS CLASSIFICATION - RMR 1989

PROJECT: MORRISON COPPER GOLD
Client: PACIFIC BOOKER MINERALS
Drilling Company: GEOTECH DRILLING
Location: GRANISLE, BC
Coordinates : N 6,125,683 m, E 671,523 m

Surface Elevation: 1,001.0 m / 3,283 ft
Total Depth: 53.6 m / 176 ft
Azimuth: deg
Inclination: 90 deg (down is positive)

Drill Type: HQ Triple Tube
Core Diameter: From 0 to 53.6 m HQ3 61.0 mm
Core Diameter: From to m 45.0 mm

Logged By: JV
Reviewed By: GJ
Date Started: 17-Feb-06
Date Completed: 20-Feb-06

Drill Hole Number: DH06-10

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Drill Hole Number: DH06-10

DRILL RUN DATA											GEOLOGY - COMMENTS		RMR - DATA (BY RUN)									RMR CALCULATIONS (BY RUN)						DISCONTINUITY DATA																PLT STRENGTH DATA / CALCS.							
Depth From	Elev. From	Depth From	Elev. From	Depth To	Depth To	Run Length	Recov. Length	Recov.	RQD Length	RQD	Rock Type	Weathered State, Structure, Color, Grain Size, Rock Material Strength, Rock Type	UCS	# of	Joint Set	Joint Condition							Water Rating	RMR-89 UCS Rating	RMR-89 RQD Rating	RMR-89 Joint Spac. Rating	RMR-89 Joint Condition Rating	RMR-89 Water Rating	RMR-89 Total	Depth	Elev.	Alpha	Beta	Disc. Type	Aper.	Fill. Type 1	Fill. Type 2	Fill. Type 3	RMR Joint Condition Jc	QTY	Orientation of Slick wrt vertical (degrees)- clockwise from reference line	Sampled?	Orientation Quality	Depth	Elev.	Date Tested	Core Diameter	Gauge Value	Gauge Value	UCS (Isx24)	Strength Designation
																Persis-	Apert-	Rough	Infill	Weath	TOTAL																													
																P	A	R	I	W																															
(ft)	(ft)	(m)	(m)	(ft)	(m)	(m)	(m)	(%)	(m)	(%)	(see Leg)		(MPa)	Joints	Spac. (mm)								Rating	Rating	Rating	Rating	Rating	Total	(m)	(m)	(deg.)	(deg.)		(mm)	(see Leg)	(see Leg)	(see Leg)						(m)	(m)		(mm)	(psi)	(kPa)	(MPa)	
0.0	3283.3	0.00	1001.0	74.8	22.80	22.80	0.00	0.0	0.00	0.0	OB	Air Rotary to bedrock. SPT's every 5 ft.																																								
74.8	3208.5	22.80	978.2	78.0	23.78	0.98	1.05	100.0	0.59	60.5	SS	Slightly weathered, crystaline structure, dark green, small grain, brown till infill.	140	6	175	0	4	3	2	5	14	15	11.7	11.9	7.3	14.0	15	59.9																									
78.0	3205.3	23.78	977.2	80.8	24.63	0.85	0.86	100.0	0.67	78.5	SS	Crystaline structure. Dark green. Grain size varying from fine sand through course sand. Brown till infill decreasing towards bottom.	125	5	172	0	4	3	2	5	14	15	10.9	15.4	7.2	14.0	15	62.6																									
80.8	3202.5	24.63	976.4	85.8	26.16	1.52	1.52	99.7		0.9	Siltst	Fine sand grain size. Dark Green with black specks. One vein of quartz ~1cm wide. Brown till infill elsewhere.	110	15	101	0	4	3	2	5	14	15	10.0	3.1	6.4	14.0	15	48.5																									
85.8	3197.5	26.16	974.8	90.8	27.68	1.52	1.49	97.7	0.72	47.2	ZS	Crystaline, small grains, green. Fractured heavily throughout. Touches of CC or QTZ infill. Mostly brown till infill.	110	17	88	0	4	5	2	5	16	15	10.0	9.5	6.2	16.0	15	56.8																									
90.8	3192.5	27.68	973.3	95.8	29.21	1.52	1.52	99.7	0.77	50.5	ZS	Very fine grained crystal structure. Greenish colour. Flakey. Very fractured at top, more coherent at bottom.	80	12	127	0	4	3	2	5	14	15	8.0	10.1	6.7	14.0	15	53.8																									
95.8	3187.5	29.21	971.8	100.8	30.73	1.52	1.47	96.4	0.61	40.0	ZS	Small grain size. Some dark greenish grey, some lighter greenish grey with orange and reddish flecks. The lighter coloured rock crumbles easily. Highly fractured throughout. Some orange weathering. Some CC infill. Mostly dark brown till infill.	60	18	82	0	4	3	2	5	14	15	6.5	8.3	6.1	14.0	15	49.9																									
100.8	3182.5	30.73	970.3	105.8	32.26	1.52	1.55	100.0	0.92	60.4	ZS	Small grain size. Light grey to dark grey in appearance. Crush zone at 40" from top. Veins of white CC or QTZ up to 2mm thick. Mostly darm brown till infill, some CC infill.	50	11	141	0	4	3	2	5	14	15	5.7	11.9	6.9	14.0	15	53.4																									
105.8	3177.5	32.26	968.7	110.8	33.78	1.52	1.52	99.7	1.07	70.2	ZS	Fine grained. Greenish grey. Infill changing: goes from CC or Q to dark brown till to greyish till. Veins of QTZ.	125	10	152	0	4	5	2	5	16	15	10.9	13.7	7.0	16.0	15	62.7																									
110.8	3172.5	33.78	967.2	115.8	35.30	1.52	1.54	100.0	1.27	83.3	ZS	Grey to reddish-green grey. Very fine grained. Lighter grey rock seems softer, more crusehd. Dark brown till infill to CC infill. Crush zone 17" down.	75	8	193	0	4	5	2	3	14	15	7.7	16.4	7.5	14.0	15	60.6																									
115.8	3167.5	35.30	965.7	120.8	36.83	1.52	1.46	95.8	0.88	57.7	ZS	Dark greenish grey fine grained rock. Fracture near bottom filled with both dark brown till and a CC layer. One fracture showing light grey and rusty coloured CC-like infill.	60	14	104	0	4	3	2	3	12	15	6.5	11.4	6.4	12.0	15	51.3																									
120.8	3162.5	36.83	964.2	125.8	38.35	1.52	1.57	100.0	0.71	46.6	SS	Dark greenish grey to pinkish grey. Fine grained crystalline structure. Light infill or brown till. Some rusty red bands in the joints.	125	13	121	0	5	2	3	4	14	15	10.9	9.4	6.6	14.0	15	56.0																									
125.8	3157.5	38.35	962.6	130.8	39.88	1.52	1.59	100.0	0.81	53.1	SS	Dark green grey to purpley grey. Fine sand grain size. Light layer of dark brown till in the fractures.	150	16	99	0	4	3	2	5	14	15	12.2	10.5	6.3	14.0	15	58.1																									
130.8	3152.5	39.88	961.1	135.8	41.40	1.52	1.52	99.7	1.18	77.4	SS	Greenish grey - dark in colour. Bands of lighter grey rock. Grain size varies from silt sized in greenish rock through gravel fines in grey. Very slight infill of dark brown till.	140	12	127	0	4	3	2	5	14	15	11.7	15.2	6.7	14.0	15	62.6																									

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Drill Hole Number: DH06-10

DRILL RUN DATA											GEOLOGY - COMMENTS	RMR - DATA (BY RUN)									RMR CALCULATIONS (BY RUN)						DISCONTINUITY DATA															PLT STRENGTH DATA / CALCs.						
Depth From (ft)	Elev. From (ft)	Depth From (m)	Elev. From (m)	Depth To (ft)	Depth To (m)	Run Length (m)	Recov. Length (m)	Recov. (%)	RQD Length (m)	RQD (%)	Rock Type (see Leg)	Weathered State, Structure, Color, Grain Size, Rock Material Strength, Rock Type	UCS (Est.) (MPa)	# of Joints	Joint Set Spac. (mm)	Joint Condition: Persis- P	Joint Condition: Apert- A	Joint Condition: Rough R	Joint Condition: Infill I	Joint Condition: Weath W	Joint Condition: TOTAL	Water Rating	RMR-89 UCS Rating	RMR-89 RQD Rating	RMR-89 Joint Spac. Rating	RMR-89 Joint Condition Rating	RMR-89 Water Rating	RMR-89 Total	Depth (m)	Elev. (m)	Alpha (deg.)	Beta (deg.)	Disc. Type	Aper. (mm)	Fill. Type 1 (see Leg)	Fill. Type 2 (see Leg)	Fill. Type 3 (see Leg)	RMR Joint Condition Jc	QTY	Orientation of Slick wrt vertical (degrees)-clockwise from reference line	Sampled?	Orientation Quality	Depth (m)	Elev. (m)	Date Tested	Core Diameter (mm)	Gauge Value (psi)	Gauge Value (kPa)	UCS (Isx24) (MPa)	Strength Designation Grade
135.8	3147.5	41.40	959.6	137.2	41.83	0.43	0.43	100.0	0.24	56.2	SS	Bit jammed. Same as above. Some grey infill (soft), some rusty red with brown till infilling.	75	5	86	0	4	3	2	5	14	15	7.7	11.1	6.2	14.0	15	53.9																				
137.2	3146.1	41.83	959.2	140.8	42.93	1.10	1.15	100.0	0.55	50.1	SS	Mostly very fine grained siltstone - dark green with grey. One large band of lighter grey rock with grain size as large as small gravel. Infilling varied from CC to dark brown till (soft).	50	9	128	0	4	3	2	5	14	15	5.7	10.0	6.7	14.0	15	51.4																				
140.8	3142.5	42.93	958.1	145.8	44.45	1.52	1.53	100.0	0.66	43.3	ZS	Finegrained siltstone. Dark greenish grey.	50	7	219	0	4	3	2	3	12	15	5.7	8.9	7.8	12.0	15	49.3																				
145.8	3137.5	44.45	956.5	150.8	45.98	1.52	1.52	99.7	0.91	59.7	ZS	Mostly fine grained siltstone. One band of reddish grey large sand grain size rock. Brown and grey till infilling.	90	14	109	0	4	3	2	5	14	15	8.7	11.7	6.5	14.0	15	55.9																				
150.8	3132.5	45.98	955.0	155.8	47.50	1.52	1.52	99.7	0.91	59.7	ZS	Dark green and grey. Fine grained. Joints look fresh with some flecks of pyrite. Hints of brown till infilling.	90	14	109	0	4	3	2	6	15	15	8.7	11.7	6.5	15.0	15	56.9																				
155.8	3127.5	47.50	953.5	160.8	49.02	1.52	1.54	100.0	0.78	51.2	ZS	Fine grained. Dark green, grey. Some pyrite flecks showing injoints. One joint near 41° from top infilled with ~1cm of soft, black, easily brushed siltstone-like rock.	125	13	118	0	4	3	4	6	17	15	10.9	10.2	6.6	17.0	15	59.7																				
160.8	3122.5	49.02	952.0	165.8	50.55	1.52	1.55	100.0	0.77	50.5	ZS	Very fine grained. Dark grey. Crush zones at 20° and 53° from top. Many fractures indicates softer rock. Hardly any infill. One crush zone is soft, flakey black with pyrite.	75	14	111	0	4	3	4	6	17	15	7.7	10.1	6.5	17.0	15	56.2																				
165.8	3117.5	50.55	950.5	170.8	52.07	1.52	1.52	99.7	1.11	72.8	ZS	Fine grained, dark green siltstone. Veins of calcite or quartz less than 1mm thick. Isolated pyrtie bits visible in joints. Very little infilling (calcite).	90	9	169	0	4	3	4	6	17	15	8.7	14.3	7.2	17.0	15	62.2																				
170.8	3112.5	52.07	948.9	175.8	53.60	1.52	1.48	97.1	1.21	79.4	ZS	Very fine grained, dark greenish grey siltstone. Hardly any infill. Small bits of pyrite visible in joints. Touches of CC infilling.	125	6	247	0	4	3	4	6	17	15	10.9	15.6	8.1	17.0	15	66.7																				

Knight Piésold CONSULTING

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET
ROCK MASS CLASSIFICATION - RMR 1989

Drill Hole Number: DH06-11

PROJECT: MORRISON COPPER GOLD
Client: PACIFIC BOOKER MINERALS
Drilling Company: GEOTECH DRILLING
Location: GRANISLE, BC
Coordinates : N 6,125,568 m, E 671,912 m

Surface Elevation: 965.0 m / 3,165 ft
Total Depth: 36.9 m / 121 ft
Azimuth:
Inclination: 90 deg (down is positive)

Drill Type: HQ3
Core Diameter: From 0 to 36.9 m HQ3 61.0 mm
Core Diameter: From to m 45.0 mm
to m
to m

Logged By: JV / LS
Reviewed By: GJ
Date Started: 20-Feb-06
Date Completed: 22-Feb-06

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Drill Hole Number: DH06-11

DRILL RUN DATA											GEOLOGY - COMMENTS		RMR - DATA (BY RUN)								RMR CALCULATIONS (BY RUN)						DISCONTINUITY DATA																PLT STRENGTH DATA / CALCs.							
Depth From	Elev. From	Depth From	Elev. From	Depth To	Depth To	Run Length	Recov. Length	Recov.	RQD Length	RQD	Rock Type	Weathered State, Structure, Color, Grain Size, Rock Material Strength, Rock Type	UCS (Est.)	# of	Joint Set	Joint Condition							Water Rating	RMR-89 UCS Rating	RMR-89 RQD Rating	RMR-89 Joint Spac. Rating	RMR-89 Joint Condition Rating	RMR-89 Water Rating	RMR-89 Total	Depth	Elev.	Alpha	Beta	Disc. Type	Aper.	Fill. Type 1	Fill. Type 2	Fill. Type 3	RMR Joint Condition Jc	QTY	Orientation of Slick wrt vertical (degrees)- clockwise from reference line	Sampled?	Orientation Quality	Depth	Elev.	Date Tested	Core Diameter	Gauge Value	Gauge Value	UCS (Isx24)	Strength Designation Grade
																Persis-	Apert-	Rough	Infill	Weath	TOTAL																													
(ft)	(ft)	(m)	(m)	(ft)	(m)	(m)	(m)	(%)	(m)	(%)	(see Leg)		(MPa)	Joints	Spac. (mm)	P	A	R	I	W		Rating	Rating	Rating	Rating	Rating	Rating	Total	(m)	(m)	(deg.)	(deg.)		(mm)	(see Leg)	(see Leg)	(see Leg)						(m)	(m)			(psi)	(kPa)	(MPa)	
0.0	3165.2	0.00	965.0	74.8	22.80	22.80	0.00	0.0	0.00	0.0	OB	Air Rotary to bedrock. SPT's every 5 ft.																																								
17.0	3148.2	5.18	959.8	21.0	6.40	1.22	1.06	86.9	0.60	49.2	ZS	fine grained, banded	80	7	151	0	4	3	6	5	18	15	8.0	9.9	7.0	18.0	15	57.9																								
21.0	3144.2	6.40	958.6	26.0	7.93	1.52	1.48	97.1	0.89	58.4	ZS	fine grained SST. Lim hem on fracs.	80	25	59	0	0	4	6	5	15	15	8.0	11.5	5.8	15.0	15	55.3																								
26.0	3139.2	7.93	957.1	30.5	9.30	1.37	1.40	100.0	1.29	94.0	ZS	dark grey fg banded. SST. CC veins.	100	5	280	0	4	3	4	5	16	15	9.4	18.8	8.5	16.0	15	67.7																								
30.5	3134.7	9.30	955.7	35.5	10.82	1.52	1.52	99.7	0.65	42.6	ZS	Very fg. Same as above.	90	20	76	0	1	3	4	5	13	15	8.7	8.8	6.0	13.0	15	51.5																								
35.5	3129.7	10.82	954.2	40.8	12.42	1.60	1.58	98.7	1.22	76.2	ZS	Fine grained. CC/Lim/hem on fracs. CC veins.	90	15	105	0	4	3	4	5	16	15	8.7	15.0	6.4	16.0	15	61.1																								
40.8	3124.5	12.42	952.6	46.0	14.02	1.60	1.58	98.7	1.10	68.7	ZS	SST with CC veins and bands of microconglomerate. Hem/lim on fracs.	80	10	158	0	4	3	4	5	16	15	8.0	13.4	7.1	16.0	15	59.5																								
46.0	3119.2	14.02	951.0	51.0	15.55	1.52	1.57	100.0	1.57	100.0	ZS	SST with CC veins. CC/hem/chl on fracs.	80	3	523	0	4	3	4	5	16	15	8.0	20.2	11.0	16.0	15	70.2																								
51.0	3114.2	15.55	949.5	56.0	17.07	1.52	1.50	98.4	1.00	65.6	ZS	SST with CC veins. Chlo alt CC on fracs.	80	10	150	0	4	3	4	5	16	15	8.0	12.8	7.0	16.0	15	58.8																								
56.0	3109.2	17.07	947.9	61.0	18.60	1.52	1.52	99.7	0.57	37.4	ZS	SST. Chlo/cc on fracs. Small PY vein noted.	80	15	101	0	4	4	4	5	17	15	8.0	7.9	6.4	17.0	15	54.3																								
61.0	3104.2	18.60	946.4	65.7	20.02	1.42	1.42	99.7	1.22	85.7	ZS	SST. CC veins. Chl, CC on fracs.	80	9	158	0	1	3	4	5	13	15	8.0	17.0	7.1	13.0	15	60.1																								
65.7	3099.5	20.02	945.0	71.0	21.65	1.63	1.58	97.2	1.07	65.8	ZS	SST with CC veins. Greenish CHL alt. CC/Chl on fracs.	80	13	122	0	1	1	3	5	10	15	8.0	12.9	6.6	10.0	15	52.5																								
71.0	3094.2	21.65	943.4	76.0	23.17	1.52	1.55	100.0	1.29	84.6	ZS	SST with microconglo bands. CC veins. Same as above. CC on fracs.	80	9	172	0	4	1	2	5	12	15	8.0	16.7	7.2	12.0	15	59.0																								
76.0	3089.2	23.17	941.8	81.0	24.70	1.52	1.52	99.7	1.25	82.0	ZS	SST same as above. CC veins. Bands of microconglomerate. CC/CLY on fracs.	80	7	217	0	1	1	2	5	9	15	8.0	16.2	7.8	9.0	15	56.0																								
81.0	3084.2	24.70	940.3	86.0	26.22	1.52	1.50	98.4	1.21	79.4	ZS	SST Fine grained. Same as above. With CC veins.	80	8	188	0	4	1	4	5	14	15	8.0	15.6	7.4	14.0	15	60.1																								
86.0	3079.2	26.22	938.8	91.0	27.74	1.52	1.52	99.7	0.92	60.4	ZS	Same as above. CC veins.	80	20	76	0	4	3	4	5	16	15	8.0	11.9	6.0	16.0	15	56.9																								
91.0	3074.2	27.74	937.3	96.0	29.27	1.52	1.56	100.0	0.92	60.4	ZS	Same as above.	80	15	104	0	4	3	2	5	14	15	8.0	11.9	6.4	14.0	15	55.3																								
96.0	3069.2	29.27	935.7	101.0	30.79	1.52	1.55	100.0	1.28	84.0	ZS	Fine grained SST. CHL alt. CC veins.	80	12	129	0	4	1	2	5	12	15	8.0	16.6	6.7	12.0	15	58.3																								
101.0	3064.2	30.79	934.2	106.0	32.32	1.52	1.52	99.7	1.38	90.5	ZS	FG SST with CC veins. Some microconglomerate.	80	5	304	0	4	1	4	5	14	15	8.0	18.0	8.8	14.0	15	63.8																								
106.0	3059.2	32.32	932.7	111.0	33.84	1.52	1.52	99.7	1.12	73.5	ZS	FG SST with CC veins. Microcongolmerate. CHL alt. CC on fracs.	80	6	253	0	4	3	4	5	16	15	8.0	14.4	8.2	16.0	15	61.6																								
111.0	3054.2	33.84	931.2	116.0	35.37	1.52	1.54	100.0	1.46	95.8	ZS/BX	Fine grained SST. Grading from microconglomerate to conglomerate. CC veins.	80	4	385	0	4	3	4	5	16	15	8.0	19.2	9.6	16.0	15	67.9																								
116.0	3049.2	35.37	929.6	121.0	36.89	1.52	1.52	99.7	1.11	72.8	BX/ZS	Conglomerate grades back to SST. CC veins. Chl alt.	80	13	117	0	1	3	4	5	13	15	8.0	14.3	6.6	13.0	15	56.8																								

Knight Piésold CONSULTING

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET
ROCK MASS CLASSIFICATION - RMR 1989

PROJECT: MORRISON COPPER GOLD
Client: PACIFIC BOOKER MINERALS
Drilling Company: GEOTECH DRILLING
Location: GRANISLE, BC
Coordinates : N 6,125,182 m, E 672,265 m

Surface Elevation: 996.0 m (3,267 ft)
Total Depth: 58.3 m (191 ft)
Azimuth: 270 deg
Inclination: 45 deg (down is positive)

Drill Type: HQ Triple Tube
Core Diameter: From 0 to 58.3 m HQ3 61.0 mm
Core Diameter: From ____ to ____ m ____ 45.0 mm

Logged By: JV / LS
Reviewed By: GJ
Date Started: 22-Feb-06
Date Completed: 26-Feb-06

Drill Hole Number: DH06-12

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Drill Hole Number: DH06-12

DRILL RUN DATA											GEOLOGY - COMMENTS		RMR - DATA (BY RUN)									RMR CALCULATIONS (BY RUN)						DISCONTINUITY DATA																		PLT STRENGTH DATA / CALCs.							
Depth From (ft)	Elev. From (ft)	Depth From (m)	Elev. From (m)	Depth To (ft)	Depth To (m)	Run Length (m)	Recov. Length (m)	Recov. (%)	RQD Length (m)	RQD (%)	Rock Type (see Leg)	Weathered State, Structure, Color, Grain Size, Rock Material Strength, Rock Type	UCS (Est.) (MPa)	# of Joints	Joint Set Spac. (mm)	Joint Condition: Persis- P	Apert- A	Rough R	Infill I	Weath W	TOTAL	Water Rating	RMR-89 UCS Rating	RMR-89 RQD Rating	RMR-89 Joint Spac. Rating	RMR-89 Joint Condition Rating	RMR-89 Water Rating	RMR-89 Total	Depth (m)	Elev. (m)	Alpha (deg.)	Beta (deg.)	Disc. Type	Aper. (mm)	Fill. Type 1 (see Leg)	Fill. Type 2 (see Leg)	Fill. Type 3 (see Leg)	RMR Joint Condition Jc	QTY	Orientation of Slick wrt vertical (degrees)- clockwise from reference line	Sampled?	Orientation Quality	Depth (m)	Elev. (m)	Date Tested	Core Diameter (mm)	Gauge Value (psi)	Gauge Value (kPa)	UCS (Isx24) (MPa)	Strength Designation Grade
0.0	3266.9	0.00	996.0	34.5	10.52	10.52	0.00	0.0	0.00	0.0	OB	Air Rotary to bedrock. SPT's every 5 ft.																																								
34.5	3242.5	10.52	988.6	36.3	11.07	0.55	0.54	98.4	0.60	0.3	Sedimentary	Very small grain size. Siltstone. Dark grey. Calcite, Quartz, Pyrite on fractures.	140	6	90	0	4	5	4	5	18	15	11.7	3.0	6.2	18.0	15	54.0																								
36.3	3241.2	11.07	988.2	41.3	12.59	1.52	1.52	99.7	0.96	63.0	Sedimentary	Siltstone. Dark Grey. CC infilling. Slightly weathered. PY infilling.	50	18	84	0	4	3	4	5	16	15	5.7	12.3	6.1	16.0	15	55.2																								
41.3	3237.7	12.59	987.1	46.3	14.12	1.52	1.53	100.0	0.81	53.1	Sedimentary	Moderately weathered siltstone. CC infilling. Very fine grained. Dark Grey.	75	19	81	0	4	3	4	3	14	15	7.7	10.5	6.1	14.0	15	53.3																								
46.3	3234.1	14.12	986.0	51.3	15.64	1.52	1.48	97.1	0.52	34.1	Sedimentary	Dark grey. Fine grained. Cery little infilling. CC and wee amount of clay.	75	23	64	0	4	3	4	5	16	15	7.7	7.4	5.9	16.0	15	52.0																								
51.3	3230.6	15.64	984.9	56.3	17.16	1.52	1.52	99.7	0.71	46.6	Sedimentary	Siltstone. Dark grey with CC veins.	50	20	76	0	4	3	4	5	16	15	5.7	9.4	6.0	16.0	15	52.1																								
56.3	3227.1	17.16	983.9	61.3	18.69	1.52	1.48	97.1	0.88	57.7	Sedimentary	As above. CC veins. Very little to no infilling on most joints.	60	14	106	0	4	3	4	6	17	15	6.5	11.4	6.4	17.0	15	56.3																								
61.3	3223.5	18.69	982.8	66.3	20.21	1.52	1.46	95.8	1.07	70.2	Sedimentary	As above.	75	12	122	0	4	3	4	5	16	15	7.7	13.7	6.6	16.0	15	59.0																								
66.3	3220.0	20.21	981.7	69.8	21.28	1.07	0.74	69.3	0.00	0.0	Sedimentary	Bit jammed, so only 3' in this run. Same rock as above. CC veins.	50	22	34	0	4	3	4	5	16	15	5.7	3.0	5.5	16.0	15	45.1																								
69.8	3217.5	21.28	981.0	71.3	21.74	0.46	0.53	100.0	0.48	100.0	Sedimentary	This is the rest of the last run.	60	1	530	0	4	3	4	5	16	15	6.5	20.2	11.0	16.0	15	68.7																								
71.3	3216.5	21.74	980.6	76.3	23.26	1.52	1.52	99.7	0.83	54.4	Sedimentary	Highly fractured. CC infilling.	60	20	76	0	4	3	4	3	14	15	6.5	10.8	6.0	14.0	15	52.3																								
76.3	3212.9	23.26	979.6	81.3	24.79	1.52	1.63	100.0	1.26	82.7	Sedimentary	Larger grains appearing. Fenocrysts.Turning to sand sized grains (microconglomerate) near bottom with a clay/sand filled joint ~1cm wide.	50	9	181	0	4	3	4	3	14	15	5.7	16.3	7.4	14.0	15	58.3																								
81.3	3209.4	24.79	978.5	86.3	26.31	1.52	1.48	97.1	1.19	78.1	SST	FG SST.	80	10	148	0	4	3	4	5	16	15	8.0	15.3	7.0	16.0	15	61.3																								
86.3	3205.9	26.31	977.4	91.5	27.90	1.59	1.52	95.9	0.96	60.6	SST	SST FG with microconglomerate. CC veins.	80	14	109	0	4	1	4	5	14	15	8.0	11.9	6.5	14.0	15	55.4																								
91.5	3202.2	27.90	976.3	96.5	29.42	1.52	1.50	98.4	0.84	55.1	Siltst	FG dark coloured siltstone. Microconglomerate/SST bonds. Less CC veins.	80	12	125	0	4	3	4	5	16	15	8.0	10.9	6.7	16.0	15	56.6																								
96.5	3198.6	29.42	975.2	101.5	30.95	1.52	1.50	98.4	0.12	7.9	Siltst	Dark brown fg siltstone. Very broken bankds of microconglomerate/sst	80	25	60	0	4	1	4	5	14	15	8.0	3.9	5.8	14.0	15	46.7																								
101.5	3195.1	30.95	974.1	106.5	32.47	1.52	1.57	100.0	1.09	71.5	Siltst/SST	Dark brown banded SST/Siltstone	80	7	224	0	4	1	4	5	14	15	8.0	14.0	7.9	14.0	15	58.9																								
106.5	3191.6	32.47	973.0	107.8	32.85	0.38	0.43	100.0	0.20	52.5	SST/Siltst	Same as above.	80	6	72	0	4	1	4	5	14	15	8.0	10.4	6.0	14.0	15	53.4																								
107.8	3190.7	32.85	972.8	111.3	33.92	1.07	1.07	100.0	1.01	94.7	SST/Siltst	Greenish SST at top for 3: then back to dark choco brown fg siltstone/sst. CC veins.	80	5	214	0	4	1	6	5	16	15	8.0	19.0	7.7	16.0	15	65.7																								
111.3	3188.2	33.92	972.0	116.3	35.44	1.52	1.51	99.1	1.15	75.4	Siltst/SST	dark brown siltstone with bands of sst. Fine CC veins.	80	6	252	0	4	1	4	5	14	15	8.0	14.8	8.2	14.0	15	60.0																								
116.3	3184.7	35.44	970.9	121.3	36.97	1.52	1.55	100.0	0.96	63.0	Siltst/SST	same as above. Dark brown sst banded. CC veins. Green alt ones.	80	12	129	0	0	1	3	5	9	15	8.0	12.3	6.7	9.0	15	51.1																								
121.3	3181.1	36.98	969.8	126.3	38.51	1.52	1.52	99.7	1.15	75.4	SST/Siltst	reddish brown and green SST. Few CC veins. Green after 1st 2'.	80	14	109	0	1	1	2	5	9	15	8.0	14.8	6.5	9.0	15	53.3																								
126.3	3177.6	38.51	968.8	131.3	40.03	1.52	1.50	98.4	1.11	72.8	SST/Siltst	Fine to course grained green SST/Siltstone. Banded CC veins.	60	9	167	0	4	3	2	5	14	15	6.5	14.3	7.2	14.0	15	56.9																								

M:\1\01\00102\07\A\Data\WMF Geotech SI - Feb to Apr '06\Drillholes\[DH06-12.xls]Data - Calc Sheet

Drill Hole Number: DH06-12

DRILL RUN DATA											GEOLOGY - COMMENTS		RMR - DATA (BY RUN)									RMR CALCULATIONS (BY RUN)						DISCONTINUITY DATA															PLT STRENGTH DATA / CALCs.						
Depth From (ft)	Elev. From (ft)	Depth From (m)	Elev. From (m)	Depth To (ft)	Depth To (m)	Run Length (m)	Recov. Length (m)	Recov. (%)	RQD Length (m)	RQD (%)	Rock Type (see Leg)	Weathered State, Structure, Color, Grain Size, Rock Material Strength, Rock Type	UCS (Est.) (MPa)	# of Joints	Joint Set Spac. (mm)	Joint Condition						Water Rating	RMR-89 UCS Rating	RMR-89 RQD Rating	RMR-89 Joint Spac. Rating	RMR-89 Joint Condition Rating	RMR-89 Water Rating	RMR-89 Total	Depth (m)	Elev. (m)	Alpha (deg.)	Beta (deg.)	Disc. Type	Aper. (mm)	Fill. Type 1 (see Leg)	Fill. Type 2 (see Leg)	Fill. Type 3 (see Leg)	RMR Joint Condition Jc	QTY	Orientation of Slick wrt vertical (degrees)-clockwise from reference line	Sampled?	Orientation Quality	Depth (m)	Elev. (m)	Date Tested	Core Diameter (mm)	Gauge Value (psi)	Gauge Value (kPa)	UCS (Isx24) (MPa)	Strength Designation Grade
																Persis- P	Apert- A	Rough R	Infill I	Weath W	TOTAL																											
131.3	3174.0	40.03	967.7	136.3	41.55	1.52	1.52	99.7	0.55	36.1	SST/Siltst/ZS	Green SST/Siltstone to ~4; of run then highly broken ZS (?). CC veins abound.	60	25	61	0	1	1	2	5	9	15	6.5	7.7	5.8	9.0	15	44.1																							
136.3	3170.5	41.55	966.6	141.3	43.08	1.52	1.48	97.1	0.50	32.8	ZS	Dark grey siltstone with CC veins.	60	10	148	0	1	3	4	5	13	15	6.5	7.2	7.0	13.0	15	48.7																							
141.3	3167.0	43.08	965.5	146.3	44.59	1.51	1.56	100.0	1.05	69.6	ZS	Same as above.	80	14	111	0	0	1	0	5	6	15	8.0	13.6	6.5	6.0	15	49.1																							
146.3	3163.4	44.60	964.5	151.3	46.13	1.52	1.52	99.7	0.99	64.9	ZS	Same as above. CC veins.	80	15	101	0	4	1	2	5	12	15	8.0	12.7	6.4	12.0	15	54.1																							
151.3	3159.9	46.13	963.4	156.3	47.65	1.52	1.51	99.1	1.14	74.8	ZS	Same as above.	80	10	151	0	4	1	4	5	14	15	8.0	14.7	7.0	14.0	15	58.7																							
156.3	3156.4	47.65	962.3	161.3	49.18	1.52	1.45	95.1	0.99	64.9	ZS	Same as above.	80	15	97	0	4	1	4	5	14	15	8.0	12.7	6.3	14.0	15	56.0																							
161.3	3152.8	49.18	961.2	166.3	50.70	1.52	1.50	98.4	1.02	66.9	ZS	Same as above.	80	15	100	0	4	1	4	5	14	15	8.0	13.1	6.3	14.0	15	56.5																							
166.3	3149.3	50.70	960.1	171.3	52.23	1.52	1.48	97.1	1.21	79.4	ZS	ZS with layers of greenish sst/microconglomerate. CC veins.	80	7	211	0	0	3	2	5	10	15	8.0	15.6	7.7	10.0	15	56.4																							
171.3	3145.8	52.23	959.1	176.3	53.75	1.52	1.55	100.0	1.27	83.3	ZS	ZS with layers of green sst. CC veins. Dark grey sst/siltstone.	80	9	172	0	4	1	4	5	14	15	8.0	16.4	7.2	14.0	15	60.7																							
176.3	3142.2	53.75	958.0	181.3	55.27	1.52	1.52	99.7	1.26	82.7	SS/VL	Greenish SST/Siltstone. CC veins. Bands of microconglomearte/sst.	80	6	253	0	4	1	4	5	14	15	8.0	16.3	8.2	14.0	15	61.5																							
181.3	3138.7	55.27	956.9	186.3	56.80	1.52	1.51	99.1	1.26	82.7	SS/VL	Contact with conlomerate at 183'. Pebble sized. Same as above. Congomerate ends at bottom of run.	80	11	137	0	4	3	2	5	14	15	8.0	16.3	6.8	14.0	15	60.1																							
186.3	3135.1	56.80	955.8	191.3	58.32	1.52	1.50	98.4	1.12	73.5	SS/VL	ZS like again with some green sections. CC veins.	80	8	188	0	1	3	2	5	11	15	8.0	14.4	7.4	11.0	15	55.9																							
EOH																																																

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GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET
ROCK MASS CLASSIFICATION - RMR 1989

PROJECT: MORRISON COPPER GOLD
Client: PACIFIC BOOKER MINERALS
Drilling Company: GEOTECH DRILLING
Location: GRANISLE, BC
Coordinates : N 6,119,111 m, E 670,800 m

Surface Elevation: 808.0 m / 2,650 ft
Total Depth: 20.3 m / 67 ft
Azimuth: 270 deg
Inclination: 90 deg (down is positive)

Drill Type: HQ Triple Tube
Core Diameter: From 0 to 20.3 m HQ3 61.0 mm
Core Diameter: From to m 45.0 mm
to m
to m
to m

Logged By: JV
Reviewed By: GJ
Date Started: 22-Mar-06
Date Completed: 24-Mar-06

Drill Hole Number: DH06-13

M:\1\01\00102\07\A\Data\WMF Geotech SI - Feb to Apr '06\Drillholes\[DH06-13.xls]Data - Calc Sheet

Drill Hole Number: DH06-13

DRILL RUN DATA											GEOLOGY - COMMENTS		RMR - DATA (BY RUN)									RMR CALCULATIONS (BY RUN)						DISCONTINUITY DATA																PLT STRENGTH DATA / CALCs.							
Depth From (ft)	Elev. From (ft)	Depth From (m)	Elev. From (m)	Depth To (ft)	Depth To (m)	Run Length (m)	Recov. Length (m)	Recov. (%)	RQD Length (m)	RQD (%)	Rock Type (see Leg)	Weathered State, Structure, Color, Grain Size, Rock Material Strength, Rock Type	UCS (Est.) (MPa)	# of Joints	Joint Set Spac. (mm)	Joint Condition: Persis- P	Apert- A	Rough R	Infill I	Weath W	TOTAL	Water Rating	RMR-89 UCS Rating	RMR-89 RQD Rating	RMR-89 Joint Spac. Rating	RMR-89 Joint Condition Rating	RMR-89 Water Rating	RMR-89 Total	Depth (m)	Elev. (m)	Alpha (deg.)	Beta (deg.)	Disc. Type	Aper. (mm)	Fill. Type 1 (see Leg)	Fill. Type 2 (see Leg)	Fill. Type 3 (see Leg)	RMR Joint Condition Jc	QTY	Orientation of Slick wrt vertical (degrees)- clockwise from reference line	Sampled?	Orientation Quality	Depth (m)	Elev. (m)	Date Tested	Core Diameter (mm)	Gauge Value (psi)	Gauge Value (kPa)	UCS (Isx24) (MPa)	Strength Designation Grade
0.0	2650.2	0.00	808.0	35.0	10.67	10.67		0.0		0.0	OB																																						
37.5	2612.7	11.43	796.6	75.0	22.87	11.43	1.21	10.6	0.99	8.7	BFP	Black and Grey with white and green phenocrysts. QTZ, PY infilling. QTZ, PY veins.	150	11	110	0	4	3	4	5	16	15	12.2	4.0	6.5	16.0	15	53.7																						
41.5	2608.7	12.65	795.3	46.5	14.18	1.52	1.53	100.0	1.34	87.9	BFP	As above. QTZ, PY, and CC infilling.	80	10	153	0	4	3	4	5	16	15	8.0	17.4	7.0	16.0	15	63.5																						
46.5	2603.7	14.18	793.8	51.5	15.70	1.52	1.53	100.0	1.13	74.1	BFP	As above. Some blueish green phenocrysts. CC infilling.	120	12	128	0	4	3	4	3	14	15	10.6	14.5	6.7	14.0	15	60.9																						
51.5	2598.7	15.70	792.3	56.5	17.23	1.52	1.56	100.0	1.37	89.9	BFP	As above.	150	8	195	0	4	3	4	5	16	15	12.2	17.9	7.5	16.0	15	68.6																						
56.5	2593.7	17.23	790.8	61.5	18.75	1.52	1.53	100.0	1.53	100.0	BFP	As above.	150	6	255	0	4	3	4	5	16	15	12.2	20.2	8.2	16.0	15	71.7																						
61.5	2588.7	18.75	789.3	66.5	20.27	1.52	1.47	96.4	1.47	96.4	BFP	As above.	120	6	245	0	4	5	4	5	18	15	10.6	19.4	8.1	18.0	15	71.1																						

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GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET
ROCK MASS CLASSIFICATION - RMR 1989

PROJECT: MORRISON COPPER GOLD
Client: PACIFIC BOOKER MINERALS
Drilling Company: GEOTECH DRILLING
Location: GRANISLE, BC
Coordinates : N 6,119,159 m, E 671,396 m

Surface Elevation: 840.0 m / 2,755 ft
Total Depth: 29.0 m / 95 ft
Azimuth: deg
Inclination: 90 deg (down is positive)

Drill Type: HQ Triple Tube
Core Diameter: From 0 to 29 m HQ3 61.0 mm
Core Diameter: From to m 45.0 mm

Logged By: JV
Reviewed By: GJ
Date Started: 20-Mar-06
Date Completed: 22-Mar-06

Drill Hole Number: DH06-14

M:\1\01\00102\07\A\Data\WMF Geotech SI - Feb to Apr '06\Drillholes\[DH06-14.xls]Data - Calc Sheet

Drill Hole Number: DH06-14

DRILL RUN DATA											GEOLOGY - COMMENTS		RMR - DATA (BY RUN)									RMR CALCULATIONS (BY RUN)						DISCONTINUITY DATA																PLT STRENGTH DATA / CALCs.							
Depth From (ft)	Elev. From (ft)	Depth From (m)	Elev. From (m)	Depth To (ft)	Depth To (m)	Run Length (m)	Recov. Length (m)	Recov. (%)	RQD Length (m)	RQD (%)	Rock Type (see Leg)	Weathered State, Structure, Color, Grain Size, Rock Material Strength, Rock Type	UCS (Est.) (MPa)	# of Joints	Joint Set Spac. (mm)	Joint Condition: Persis- P	Apert- A	Rough R	Infill I	Weath W	TOTAL	Water Rating	RMR-89 UCS Rating	RMR-89 RQD Rating	RMR-89 Joint Spac. Rating	RMR-89 Joint Condition Rating	RMR-89 Water Rating	RMR-89 Total	Depth (m)	Elev. (m)	Alpha (deg.)	Beta (deg.)	Disc. Type	Aper. (mm)	Fill. Type 1 (see Leg)	Fill. Type 2 (see Leg)	Fill. Type 3 (see Leg)	RMR Joint Condition Jc	QTY	Orientation of Slick wrt vertical (degrees)-clockwise from reference line	Sampled?	Orientation Quality	Depth (m)	Elev. (m)	Date Tested	Core Diameter (mm)	Gauge Value (psi)	Gauge Value (kPa)	UCS (Isx24) (MPa)	Strength Designation Grade
0.0	2755.2	0.00	840.0	66.0	20.12	20.12		0.0		0.0	OB																																					
70.0	2685.2	21.34	818.7	75.0	22.87	1.52	1.56	100.0	1.56	100.0	ZS	Slightly Weathered, CC infilling, dark grey, fine grained, siltstone/mudstone.	80	2	780	0	4	3	4	5	16	15	8.0	20.2	13.1	16.0	15	72.3																					
75.0	2680.2	22.87	817.1	80.0	24.39	1.52	1.52	99.7	1.26	82.7	ZS	Dark grey with "bubbles" of lighter grey. Fine grained. CC and CLY infilling. Some hard orange infilling.	80	4	380	0	4	3	2	3	12	15	8.0	16.3	9.6	12.0	15	60.9																					
80.0	2675.2	24.39	815.6	85.0	25.91	1.52	1.51	99.1	1.34	87.9	ZS	Light Grey. CC, CLY, PY infilling.	60	4	378	0	4	3	4	5	16	15	6.5	17.4	9.6	16.0	15	64.5																					
85.0	2670.2	25.91	814.1	90.0	27.44	1.52	1.36	89.2	1.28	84.0	ZS	Light Grey, CC, PY infiling and veins up to 4mm wide (PY, CC)	60	7	194	0	4	1	4	5	14	15	6.5	16.6	7.5	14.0	15	59.6																					
90.0	2665.2	27.44	812.6	95.0	28.96	1.52	1.52	99.7	1.10	72.2	ZS	wish with some reddish areas and b	80	15	101	0	4	1	2	5	12	15	8.0	14.1	6.4	12.0	15	55.5																					

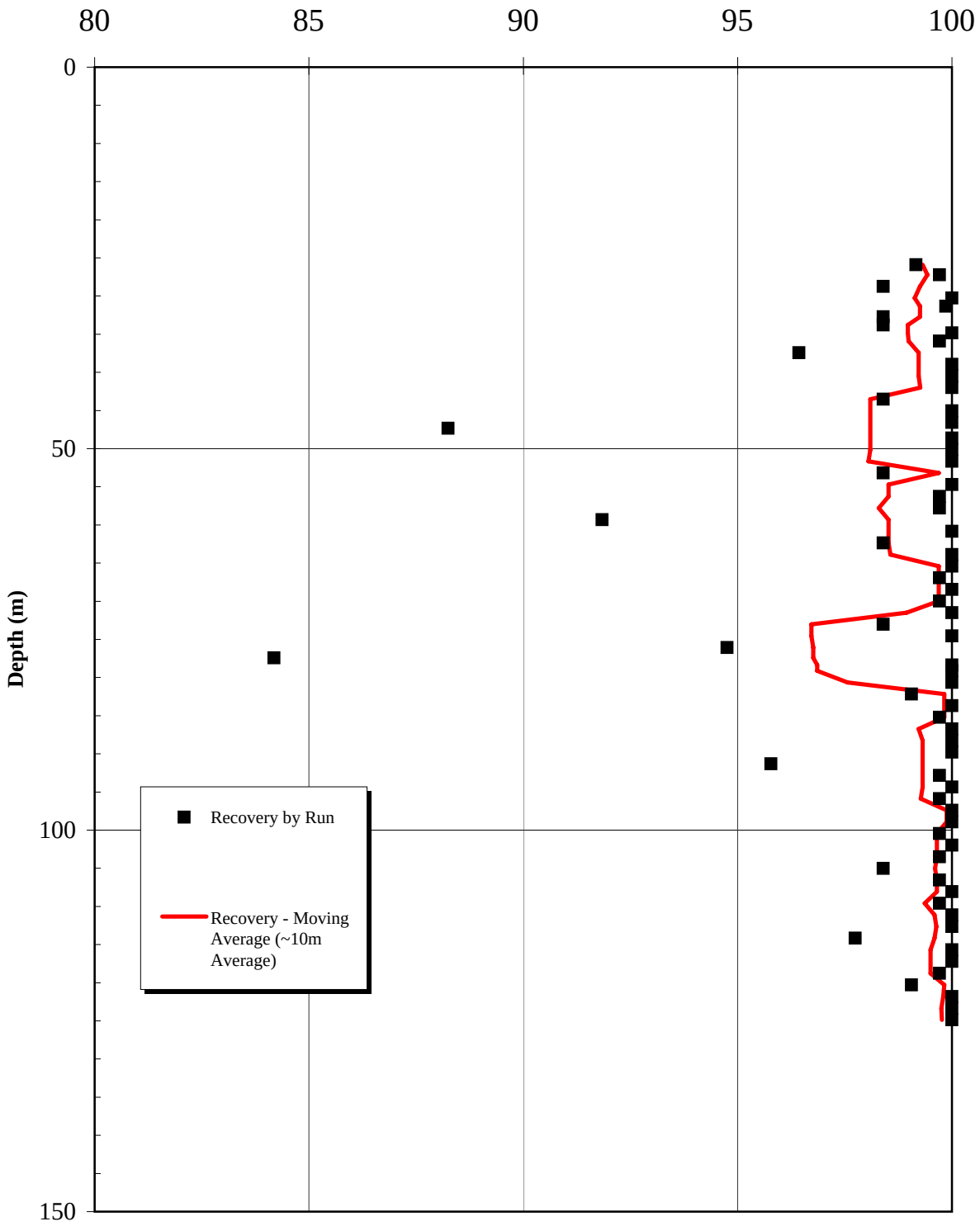
APPENDIX A3
(Rev 0)

BEDROCK DRILLING GRAPHS
RECOVERY, RQD, ESTIMATED UCS, AND RMR VS. DEPTH

- Drillhole DH06-01
- Drillhole DH06-02
- Drillhole DH06-03
- Drillhole DH06-04
- Drillhole DH06-06
- Drillhole DH06-07
- Drillhole DH06-10
- Drillhole DH06-11
- Drillhole DH06-12
- Drillhole DH06-13
- Drillhole DH06-14

(Figures A3-1 to A3-44)

RECOVERY (%)



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MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
RECOVERY VS. DEPTH
DRILLHOLE DH06-1

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PROJECT / ASSIGNMENT NO.	REF NO.
VA101-00102/07-A	1

FIGURE A3-1

REV. 0

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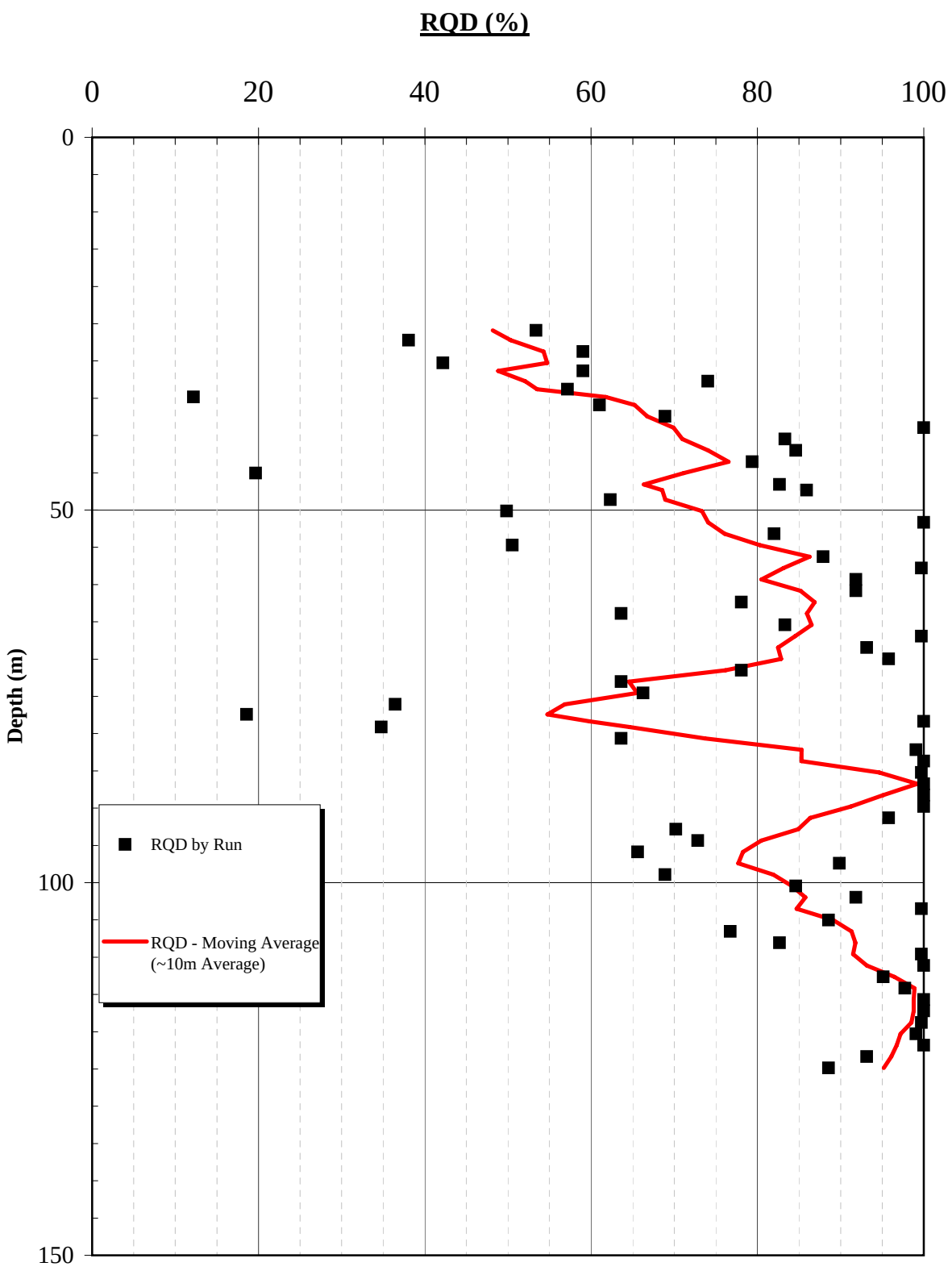

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MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
RQD VS. DEPTH
DRILLHOLE DH06-1

Knight Piésold CONSULTING

PROJECT / ASSIGNMENT NO. VA101-00102/07-A

REF NO. 1

FIGURE A3-2

REV. 0

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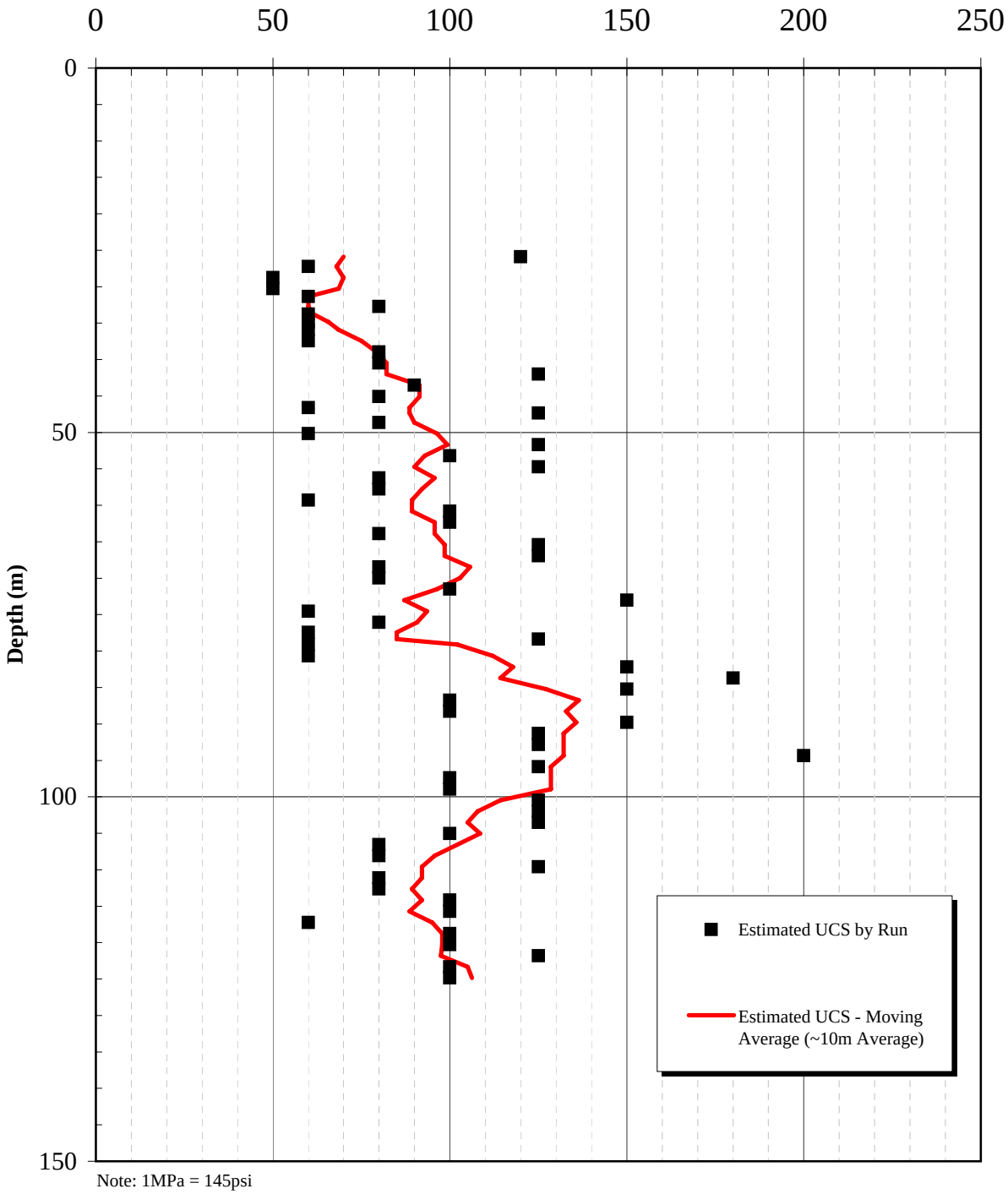
ESTIMATED UCS (MPa)



Note: 1MPa = 145psi

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MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
ESTIMATED UCS VS. DEPTH
DRILLHOLE DH06-1

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PROJECT / ASSIGNMENT NO. VA101-00102/07-A

REF NO. 1

FIGURE A3-3

REV. 0

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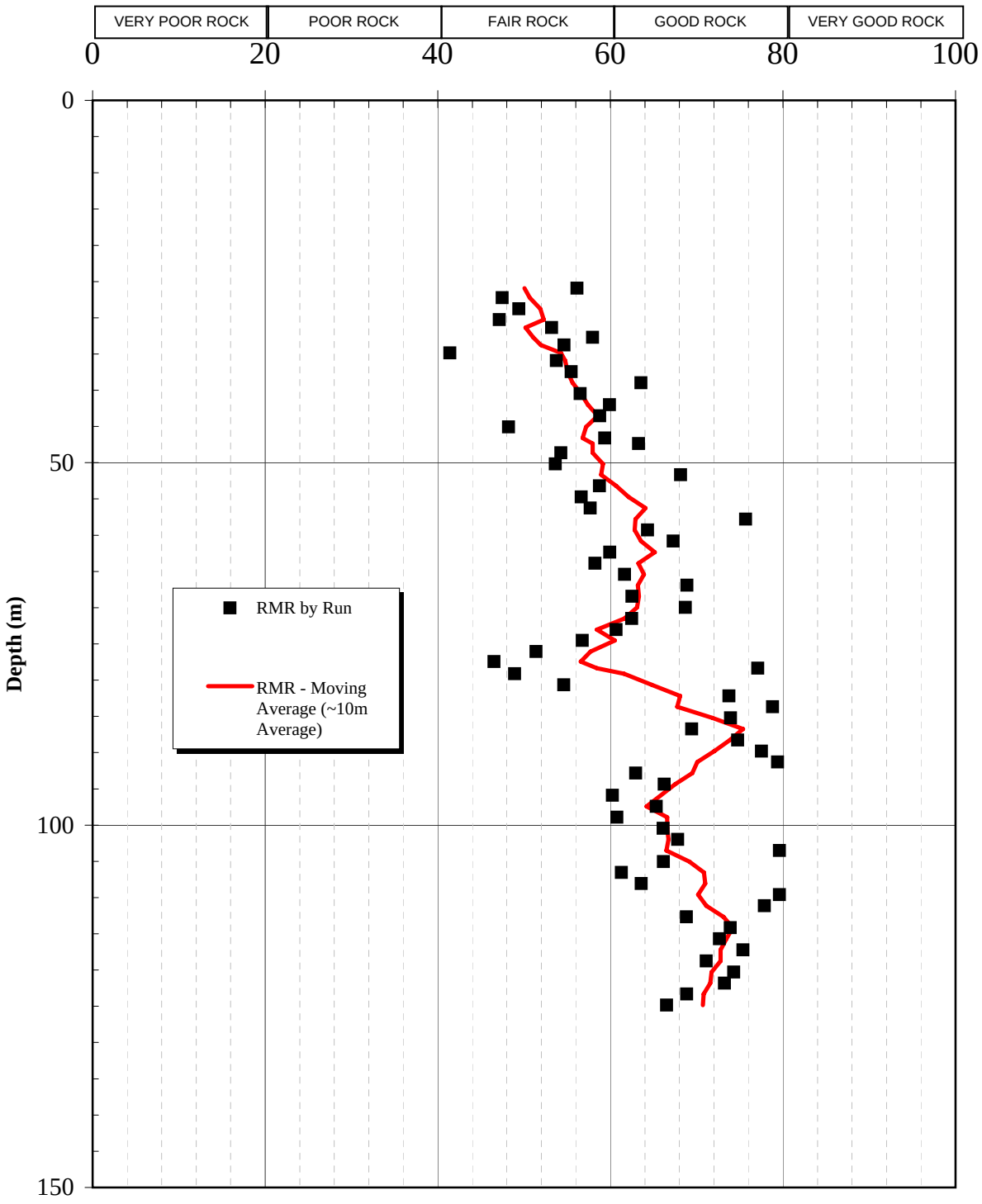
RMR



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MORRISON COPPER GOLD PROJECT		
GEOTECHNICAL SITE INVESTIGATION **RMR VS. DEPTH** **DRILLHOLE DH06-1**		
Knight Piésold CONSULTING	PROJECT / ASSIGNMENT NO. VA101-00102/07-A	REF NO. 1
FIGURE A3-4		REV. 0

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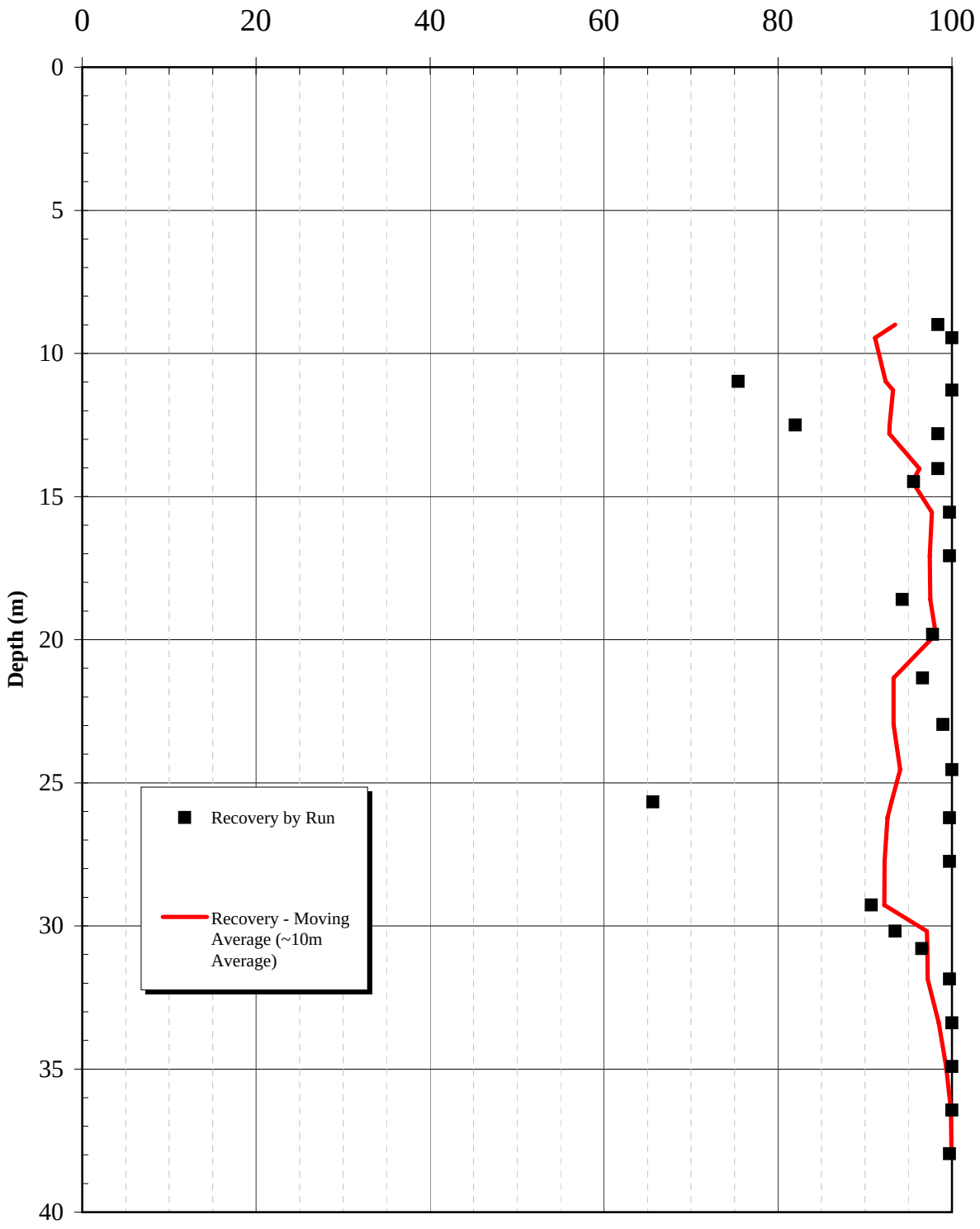
RECOVERY (%)



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MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
RECOVERY VS. DEPTH
DRILLHOLE DH06-2

Knight Piésold CONSULTING

PROJECT / ASSIGNMENT NO.	REF NO.
VA101-00102/07-A	1

FIGURE A3-5

REV. 0

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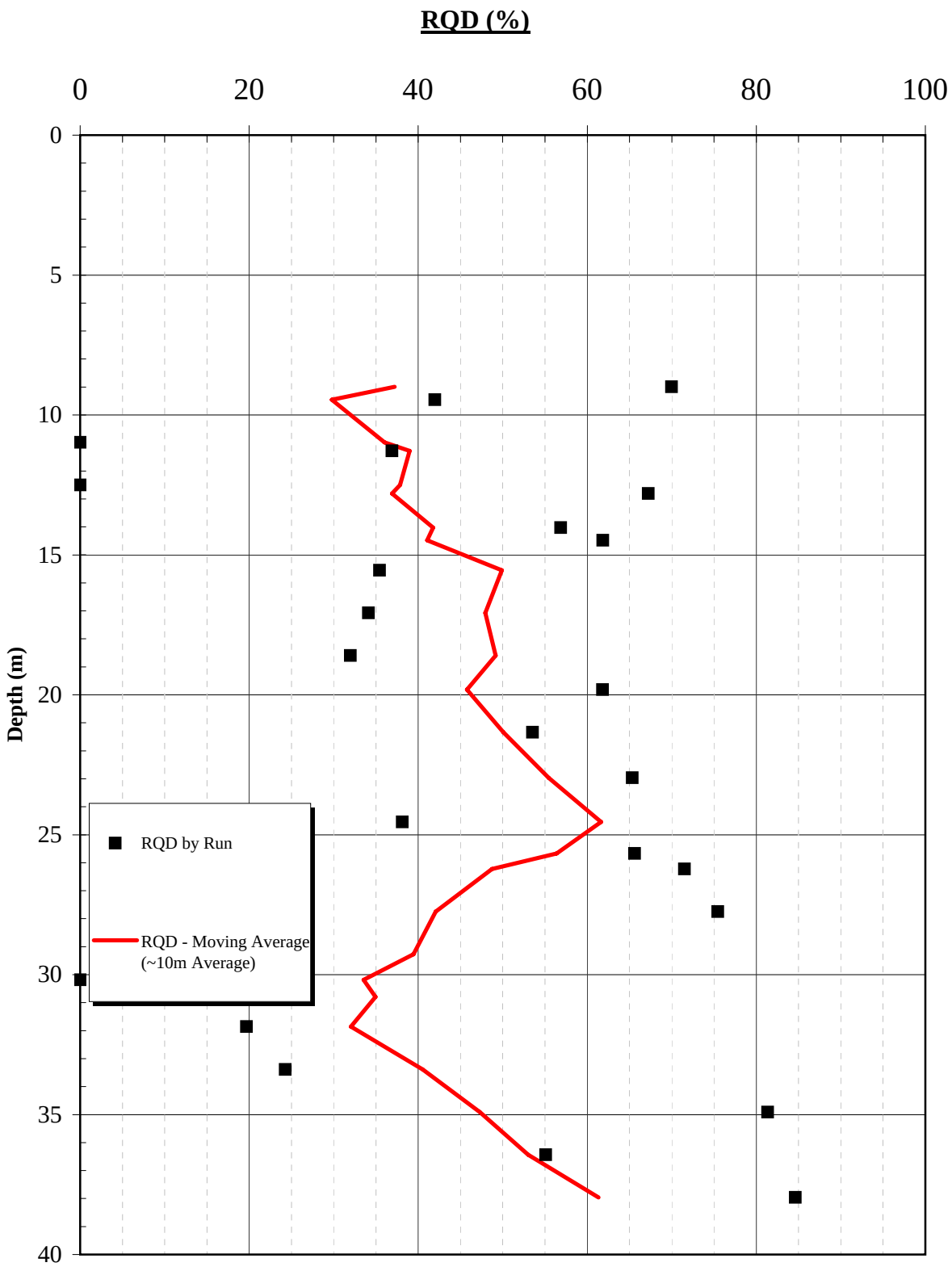

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MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
RQD VS. DEPTH
DRILLHOLE DH06-2

Knight Piésold CONSULTING

PROJECT / ASSIGNMENT NO.	REF NO.
VA101-00102/07-A	1

FIGURE A3-6

REV. 0

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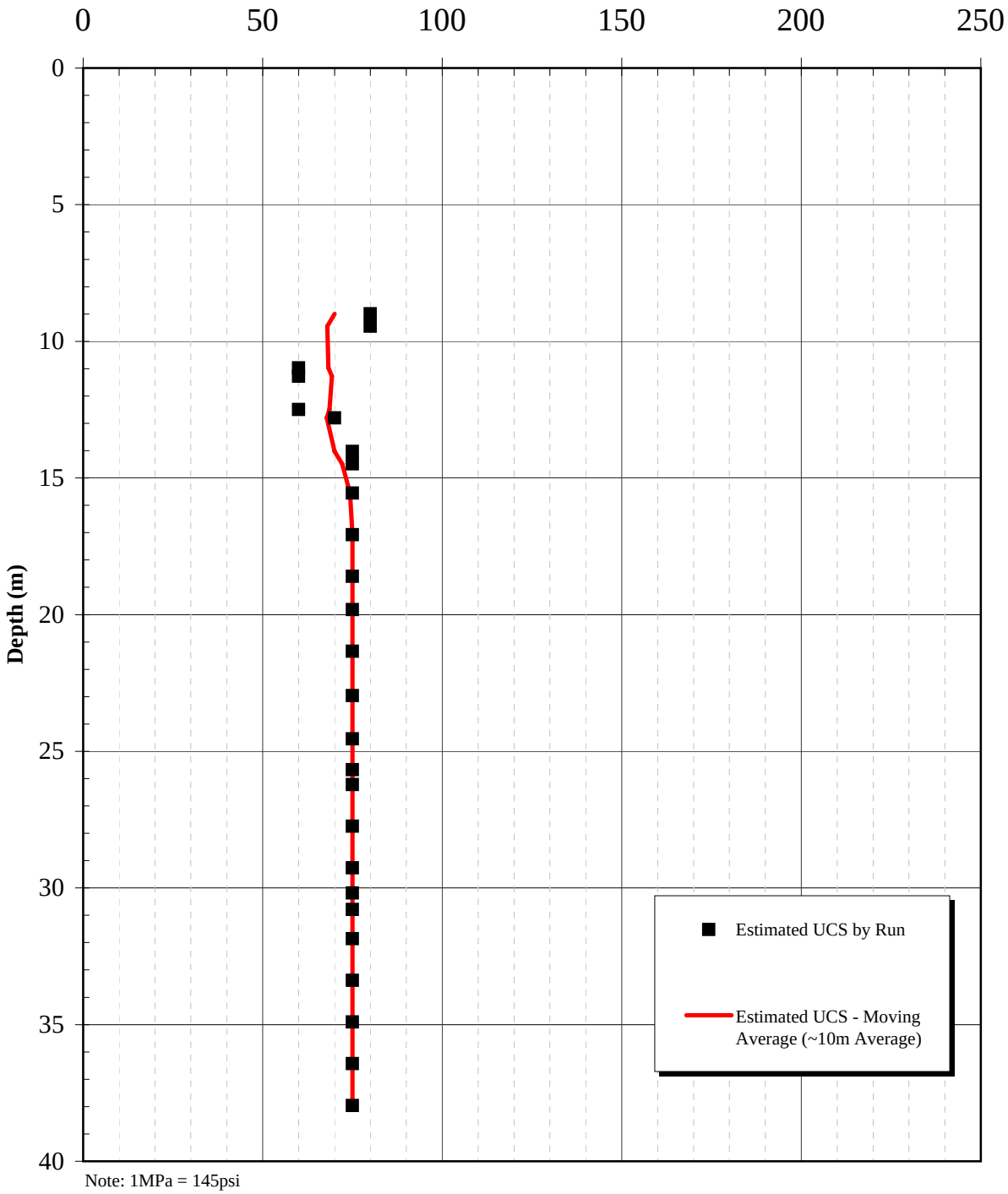
ESTIMATED UCS (MPa)



Note: 1MPa = 145psi

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MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
ESTIMATED UCS VS. DEPTH
DRILLHOLE DH06-2

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PROJECT / ASSIGNMENT NO.	REF NO.
VA101-00102/07-A	1

FIGURE A3-7

REV. 0

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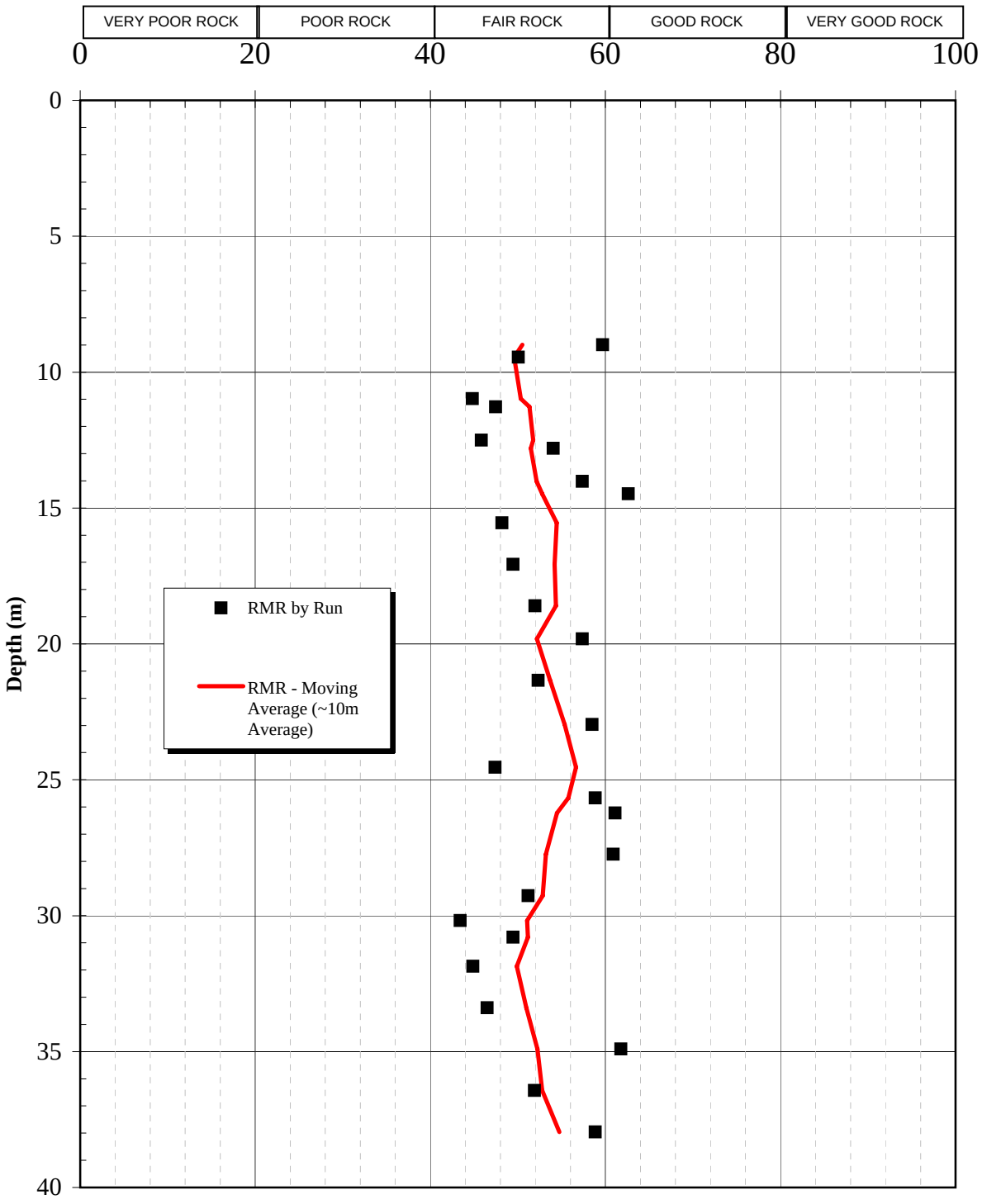
RMR



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MORRISON COPPER GOLD PROJECT		
GEOTECHNICAL SITE INVESTIGATION **RMR VS. DEPTH** **DRILLHOLE DH06-2**		
Knight Piésold CONSULTING	PROJECT / ASSIGNMENT NO. VA101-00102/07-A	REF NO. 1
FIGURE A3-8		REV. 0

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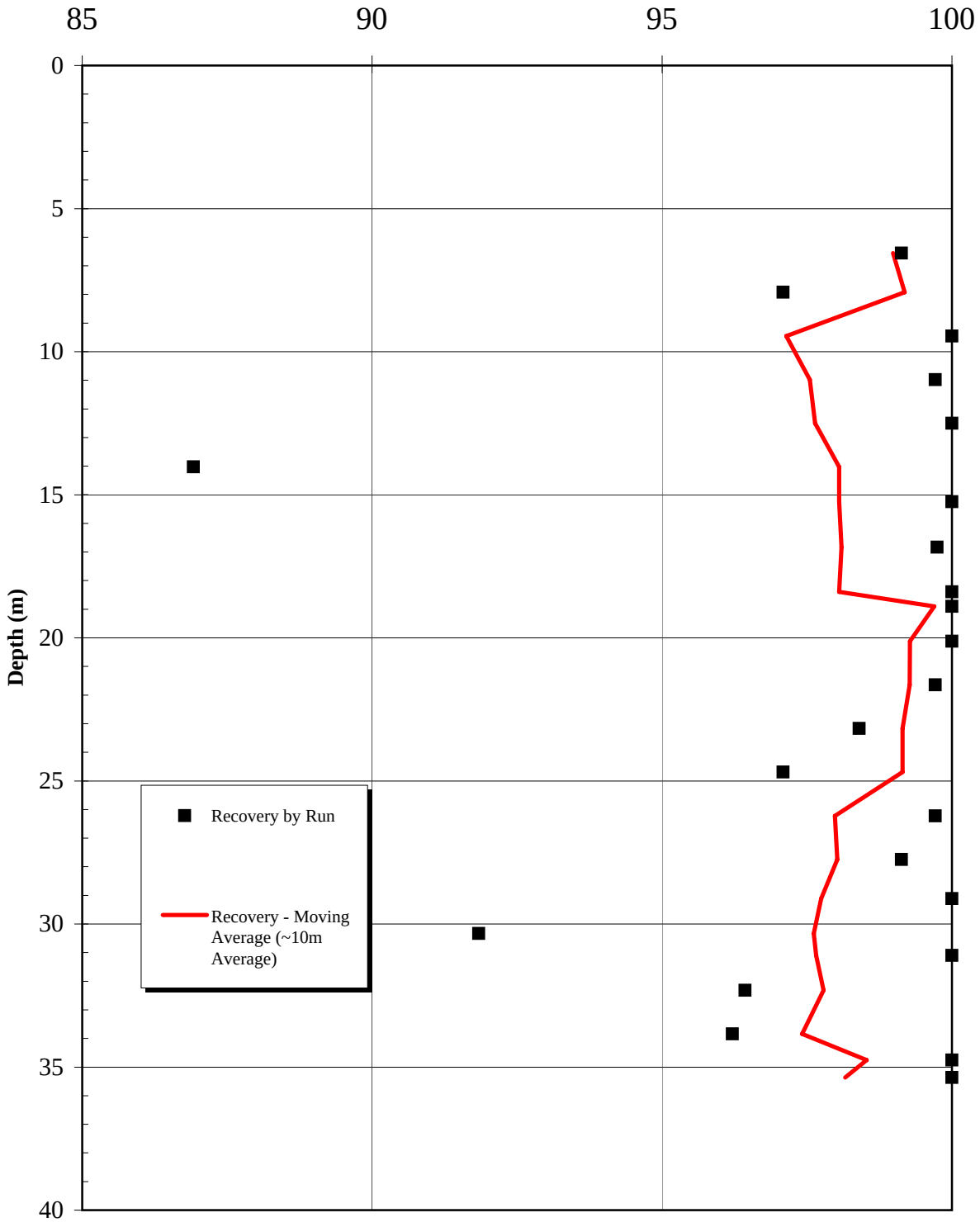
RECOVERY (%)



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MORRISON COPPER GOLD PROJECT		
GEOTECHNICAL SITE INVESTIGATION **RECOVERY VS. DEPTH** **DRILLHOLE DH06-3**		
Knight Piésold CONSULTING	PROJECT / ASSIGNMENT NO. VA101-00102/07-A	REF NO. 1
FIGURE A3-9		REV. 0

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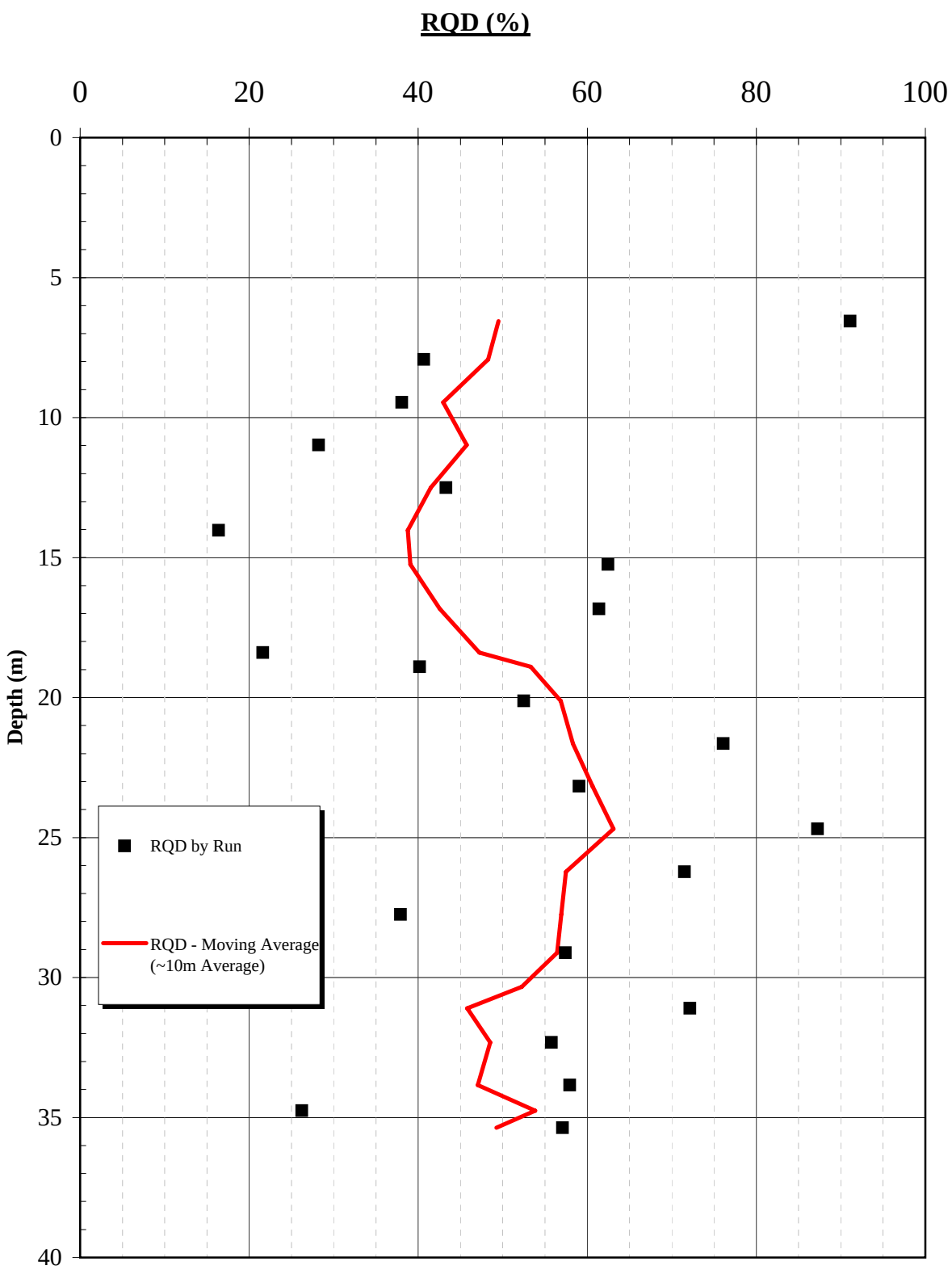

PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
RQD VS. DEPTH
DRILLHOLE DH06-3

Knight Piésold CONSULTING

PROJECT / ASSIGNMENT NO. VA101-00102/07-A

REF NO. 1

FIGURE A3-10

REV. 0

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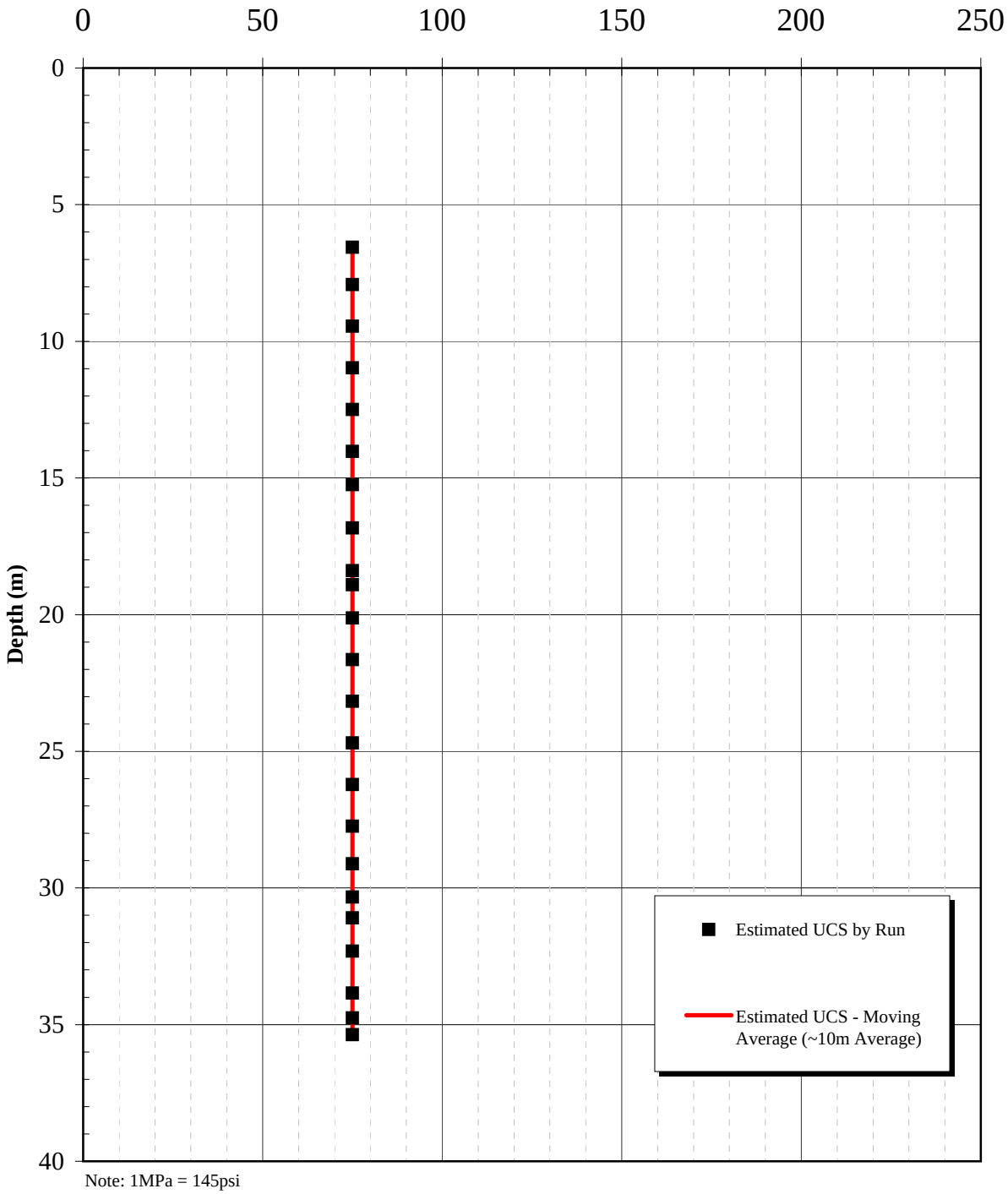
ESTIMATED UCS (MPa)



Note: 1MPa = 145psi

PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
ESTIMATED UCS VS. DEPTH
DRILLHOLE DH06-3

Knight Piésold CONSULTING

PROJECT / ASSIGNMENT NO.	REF NO.
VA101-00102/07-A	1

FIGURE A3-11

REV. 0

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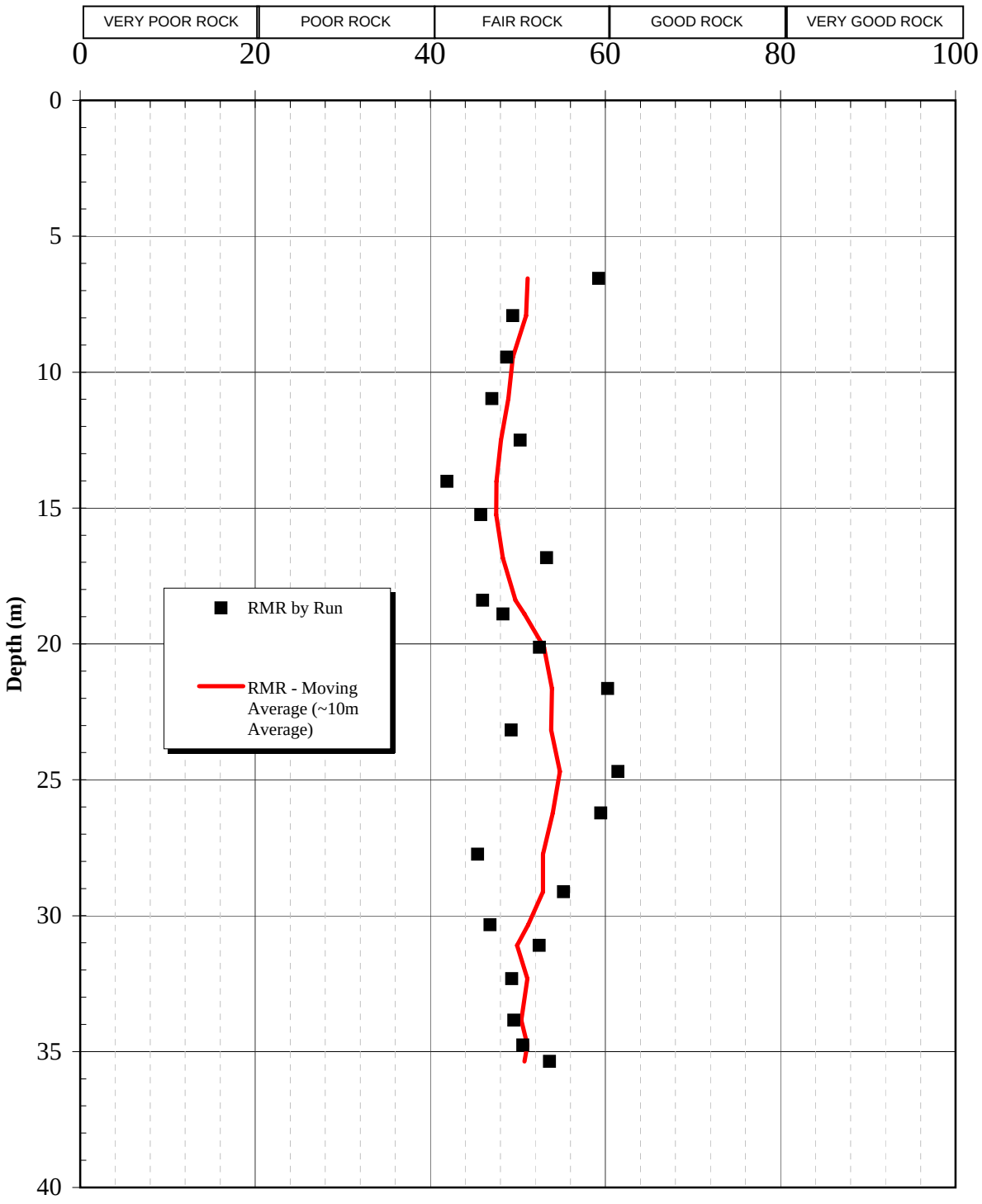
RMR



PACIFIC BOOKER MINERALS INC.		
MORRISON COPPER GOLD PROJECT		
GEOTECHNICAL SITE INVESTIGATION **RMR VS. DEPTH** **DRILLHOLE DH06-3**		
Knight Piésold CONSULTING	PROJECT / ASSIGNMENT NO. VA101-00102/07-A	REF NO. 1
FIGURE A3-12		REV. 0

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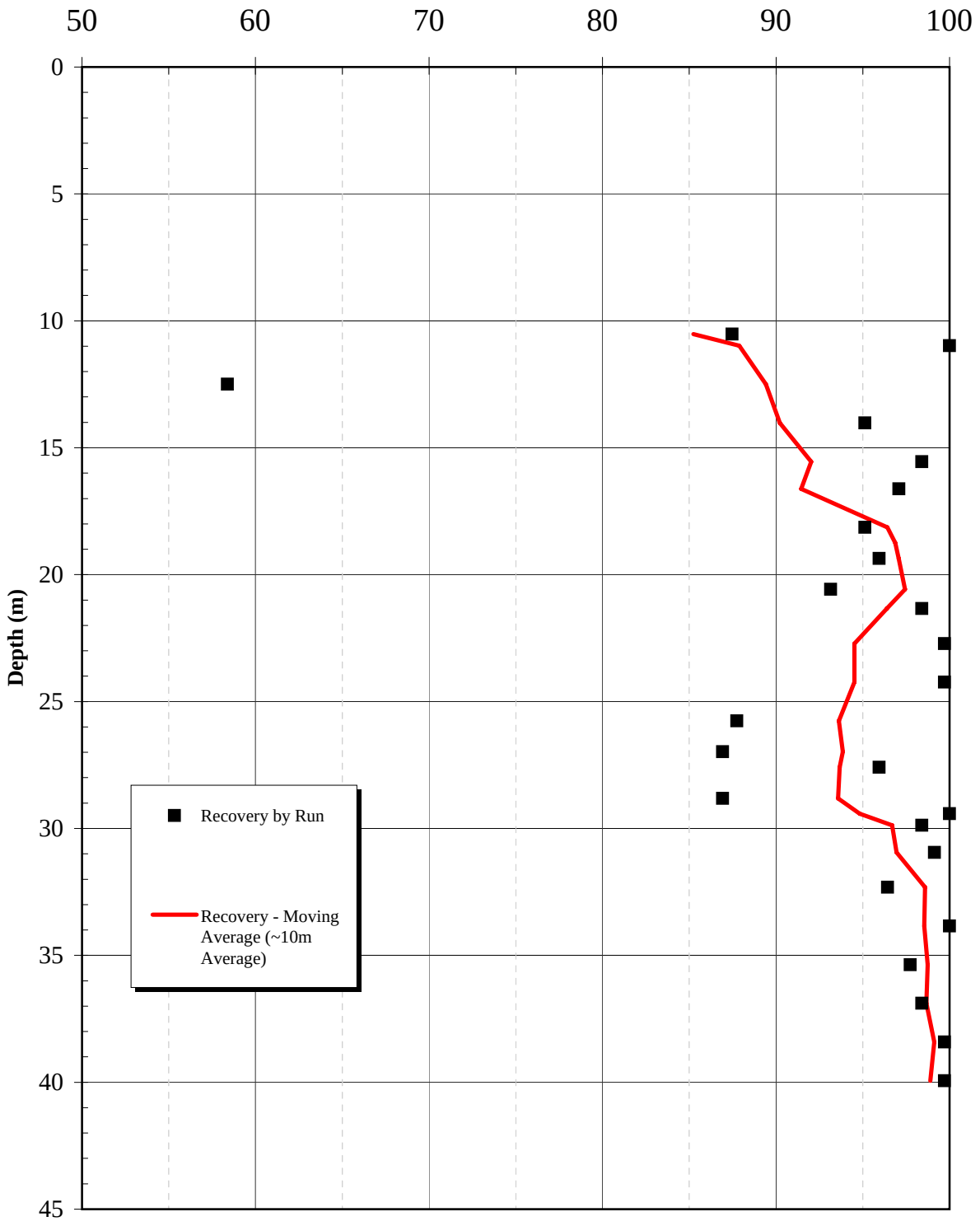
RECOVERY (%)



PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
RECOVERY VS. DEPTH
DRILLHOLE DH06-4

Knight Piésold CONSULTING

PROJECT / ASSIGNMENT NO.	REF NO.
VA101-00102/07-A	1

FIGURE A3-13

REV. 0

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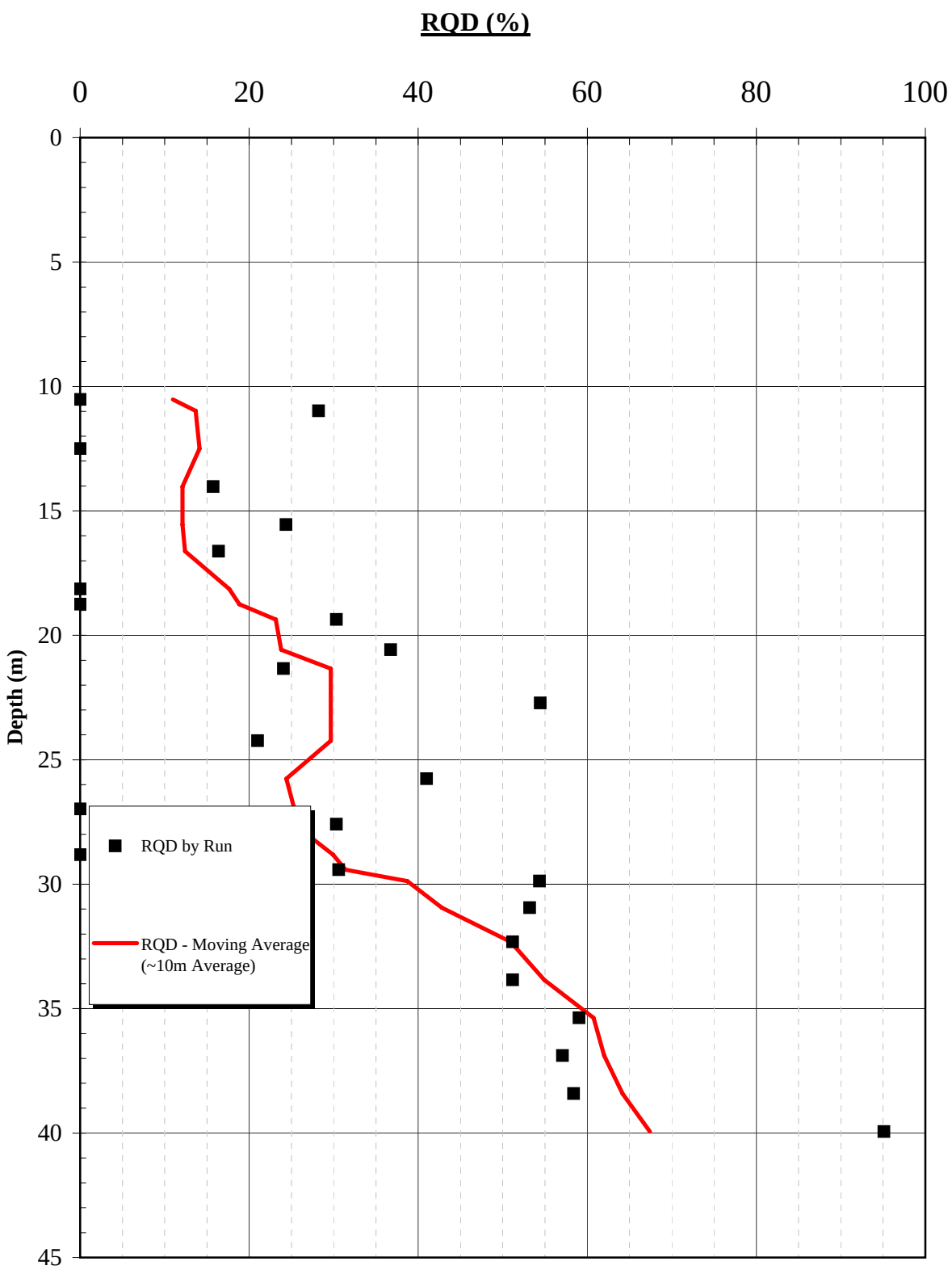

PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
RQD VS. DEPTH
DRILLHOLE DH06-4

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VA101-00102/07-A	1

FIGURE A3-14

REV. 0

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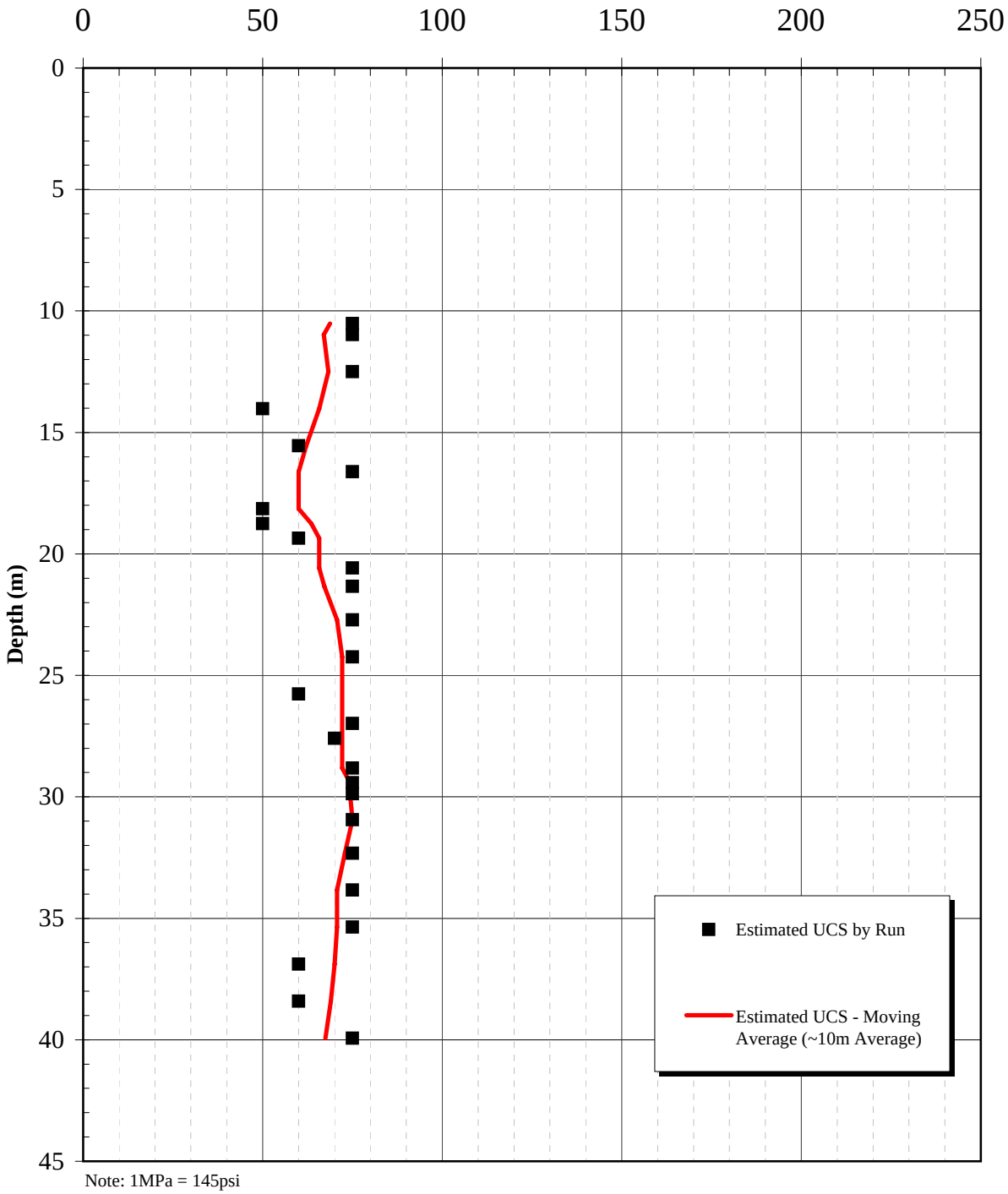
ESTIMATED UCS (MPa)



Note: 1MPa = 145psi

PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
ESTIMATED UCS VS. DEPTH
DRILLHOLE DH06-4

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FIGURE A3-15

REV. 0

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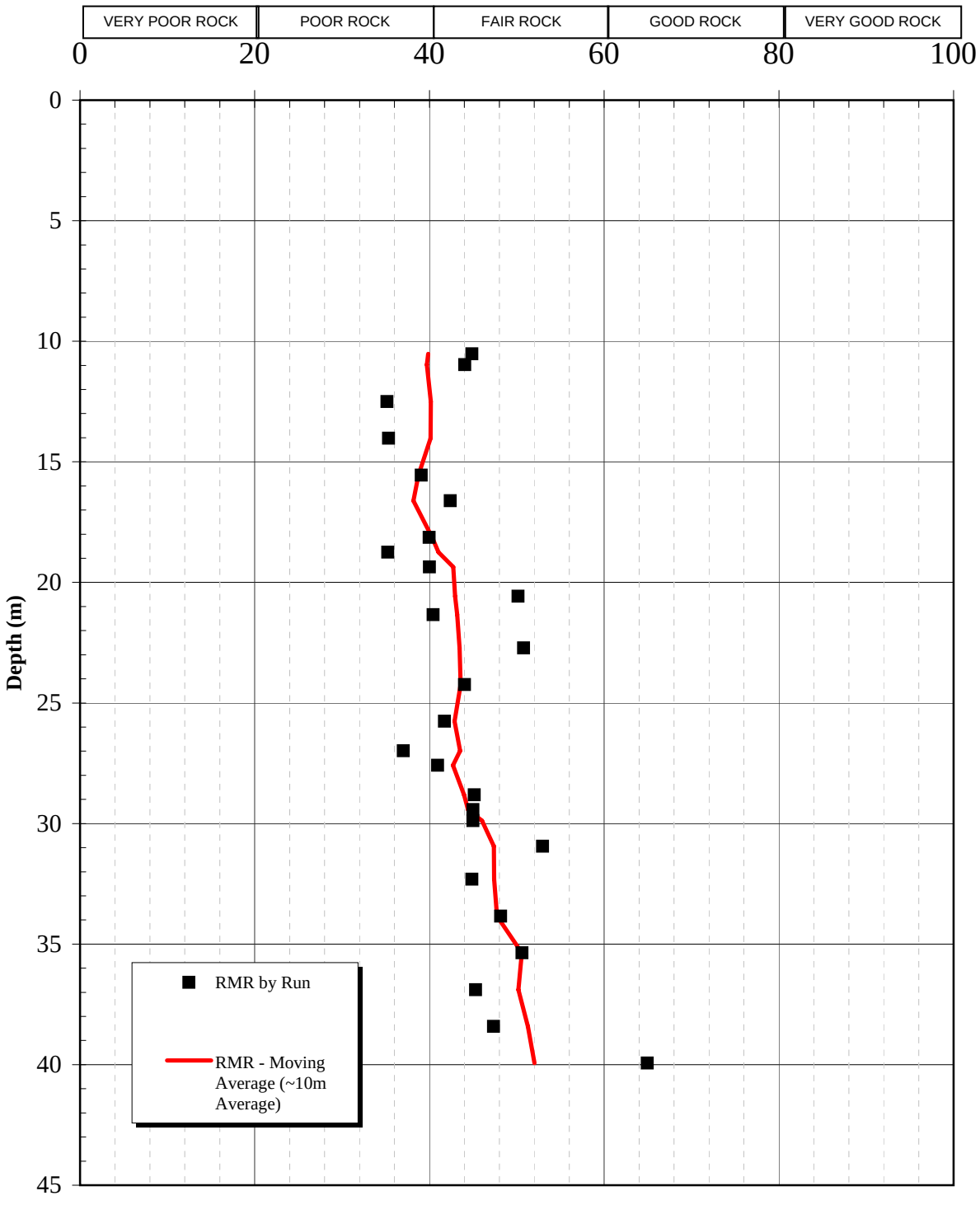
RMR



PACIFIC BOOKER MINERALS INC.		
MORRISON COPPER GOLD PROJECT		
GEOTECHNICAL SITE INVESTIGATION **RMR VS. DEPTH** **DRILLHOLE DH06-4**		
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FIGURE A3-16		REV. 0

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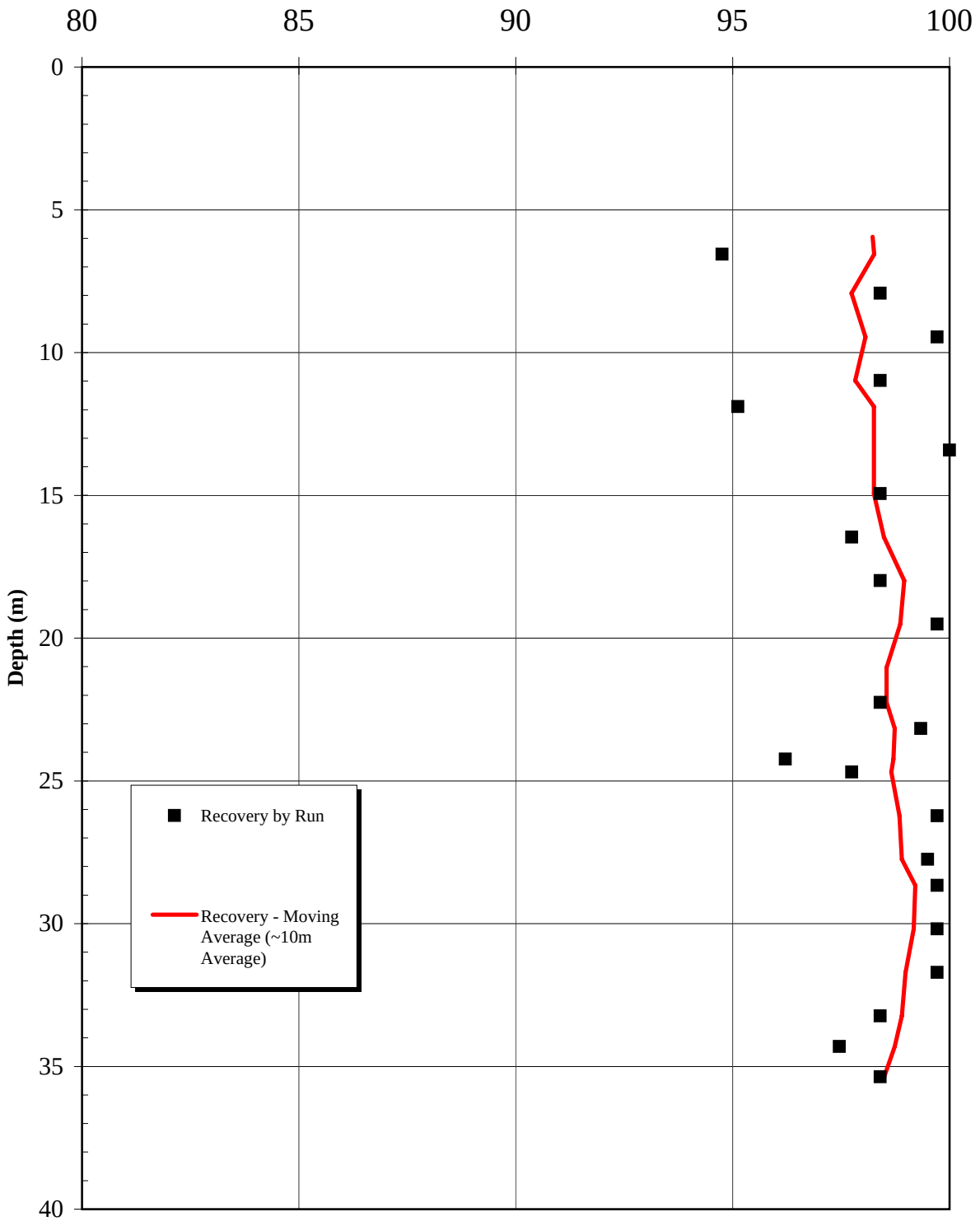
RECOVERY (%)



PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
RECOVERY VS. DEPTH
DRILLHOLE DH06-6

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VA101-00102/07-A	1

FIGURE A3-17

REV. 0

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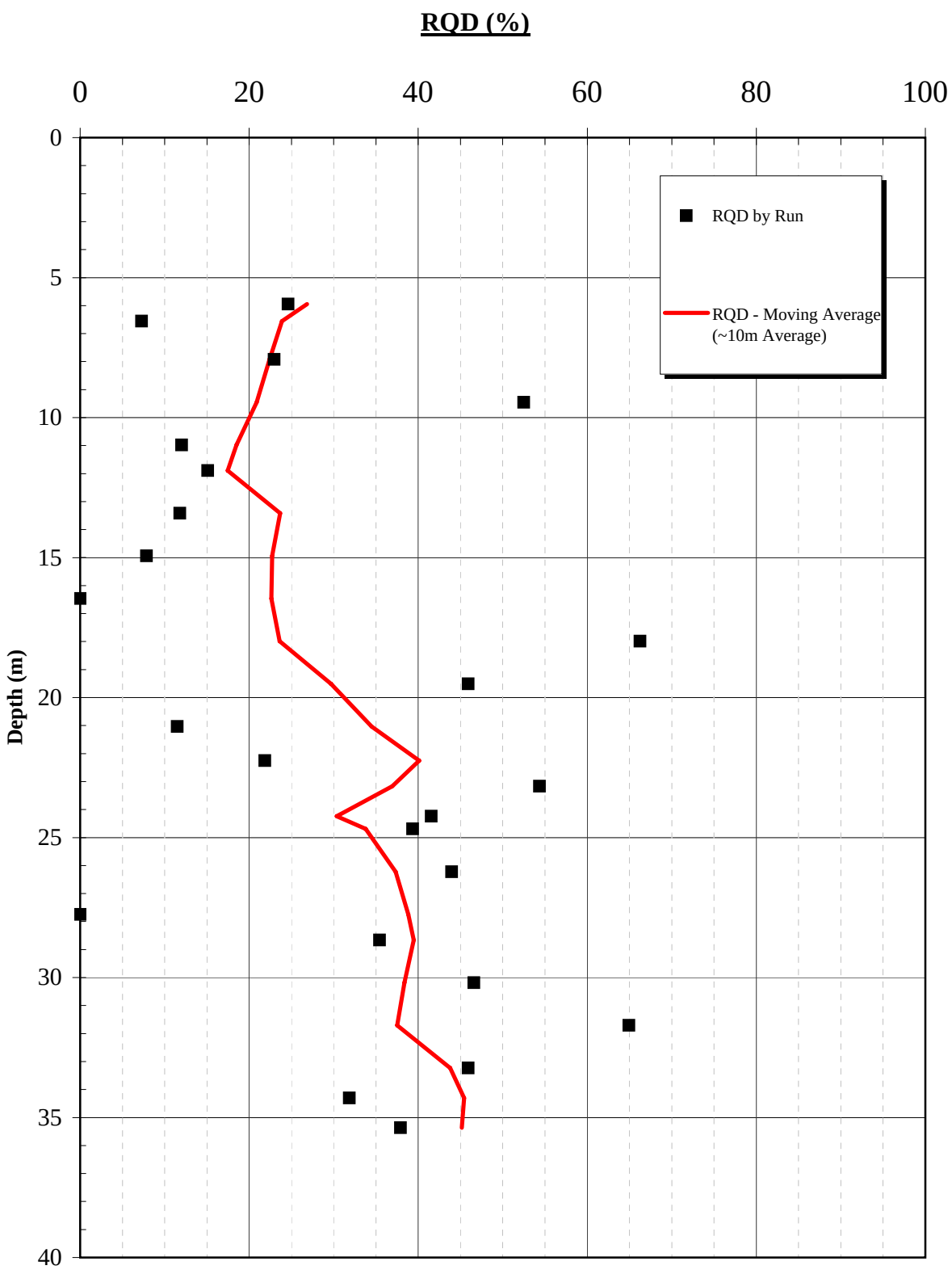

PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
RQD VS. DEPTH
DRILLHOLE DH06-6

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FIGURE A3-18

REV. 0

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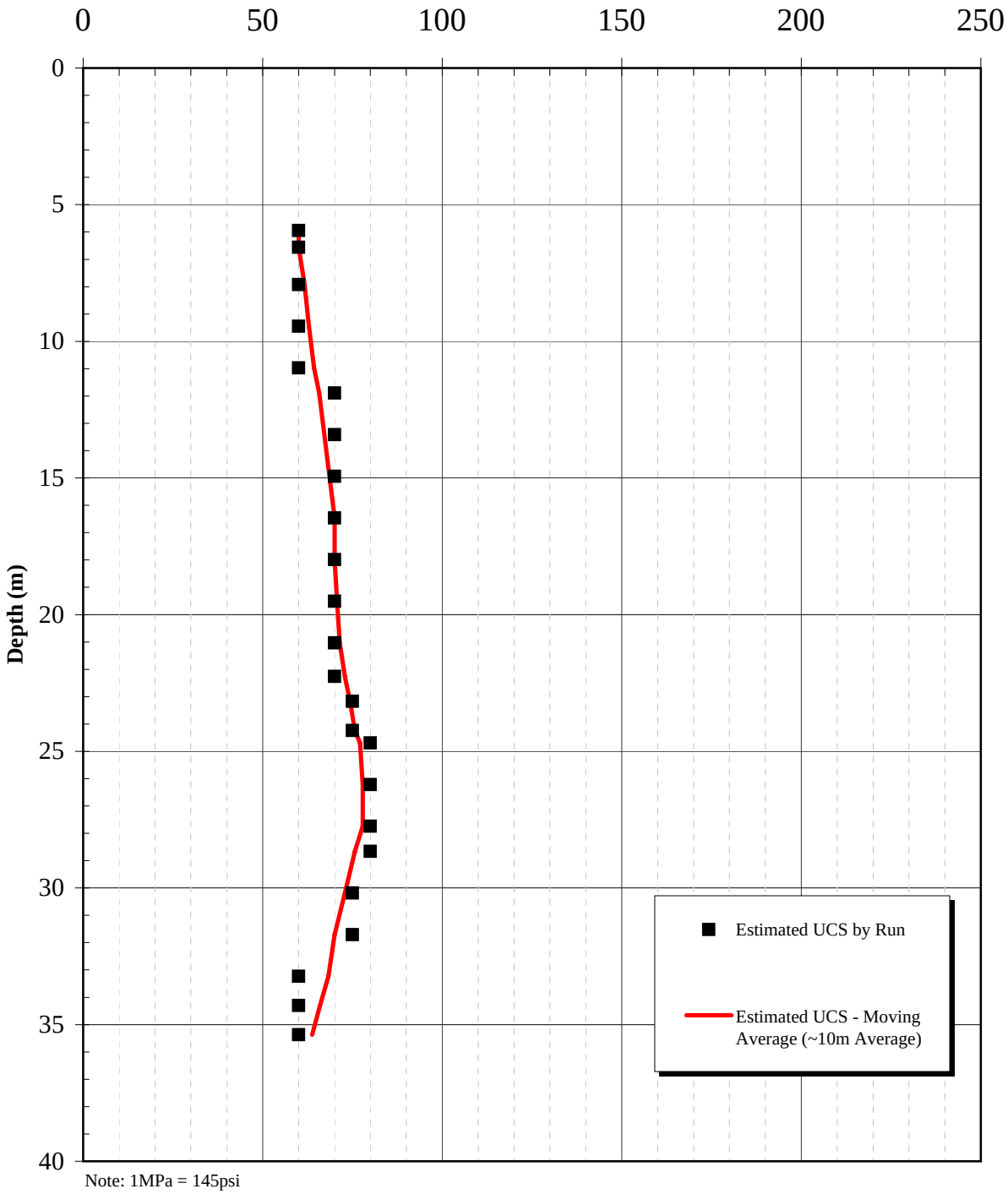
ESTIMATED UCS (MPa)



Note: 1MPa = 145psi

PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
ESTIMATED UCS VS. DEPTH
DRILLHOLE DH06-6

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FIGURE A3-19

REV. 0

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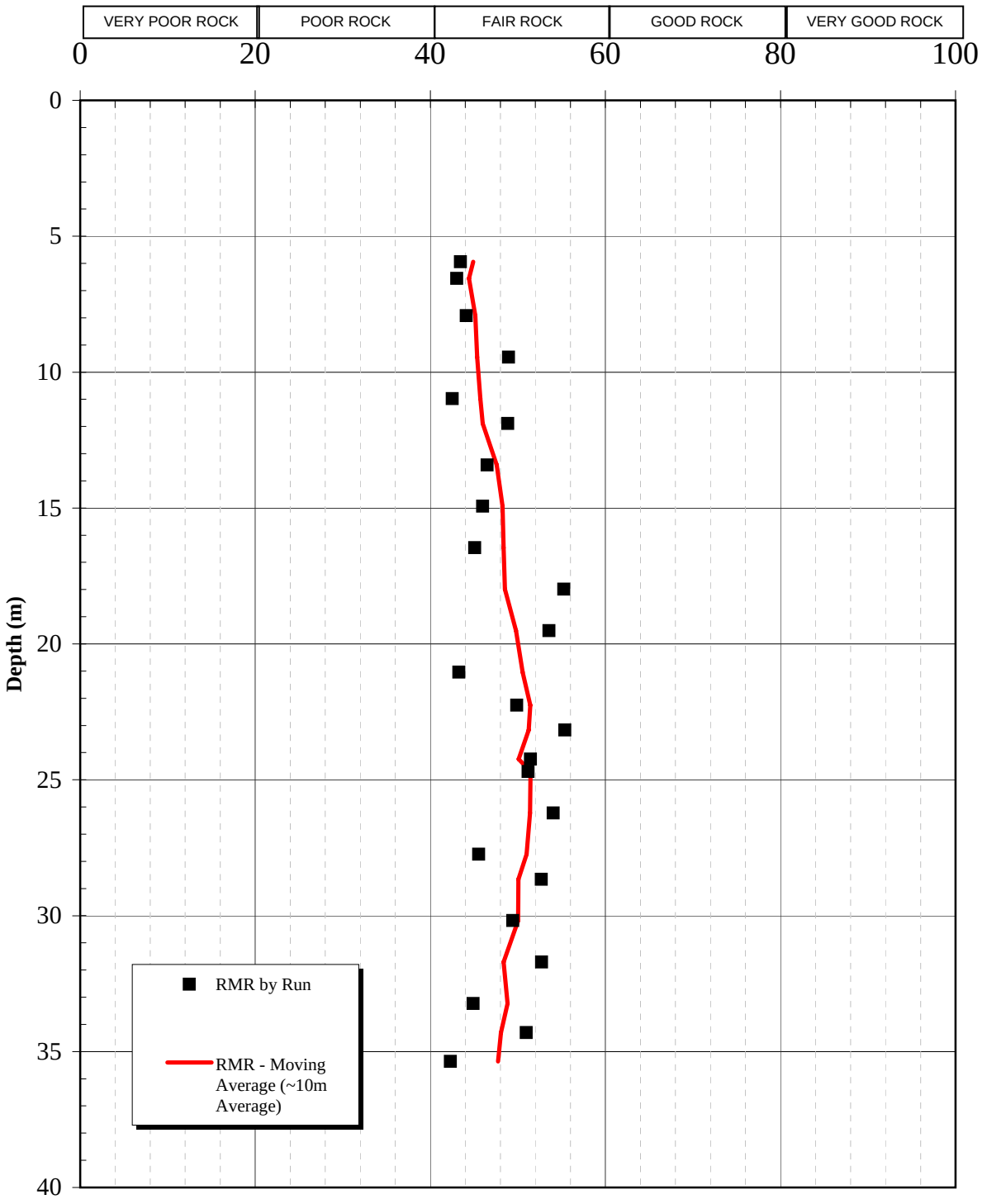
RMR



PACIFIC BOOKER MINERALS INC.		
MORRISON COPPER GOLD PROJECT		
GEOTECHNICAL SITE INVESTIGATION **RMR VS. DEPTH** **DRILLHOLE DH06-6**		
Knight Piésold CONSULTING	PROJECT / ASSIGNMENT NO. VA101-00102/07-A	REF NO. 1
FIGURE A3-20		REV. 0

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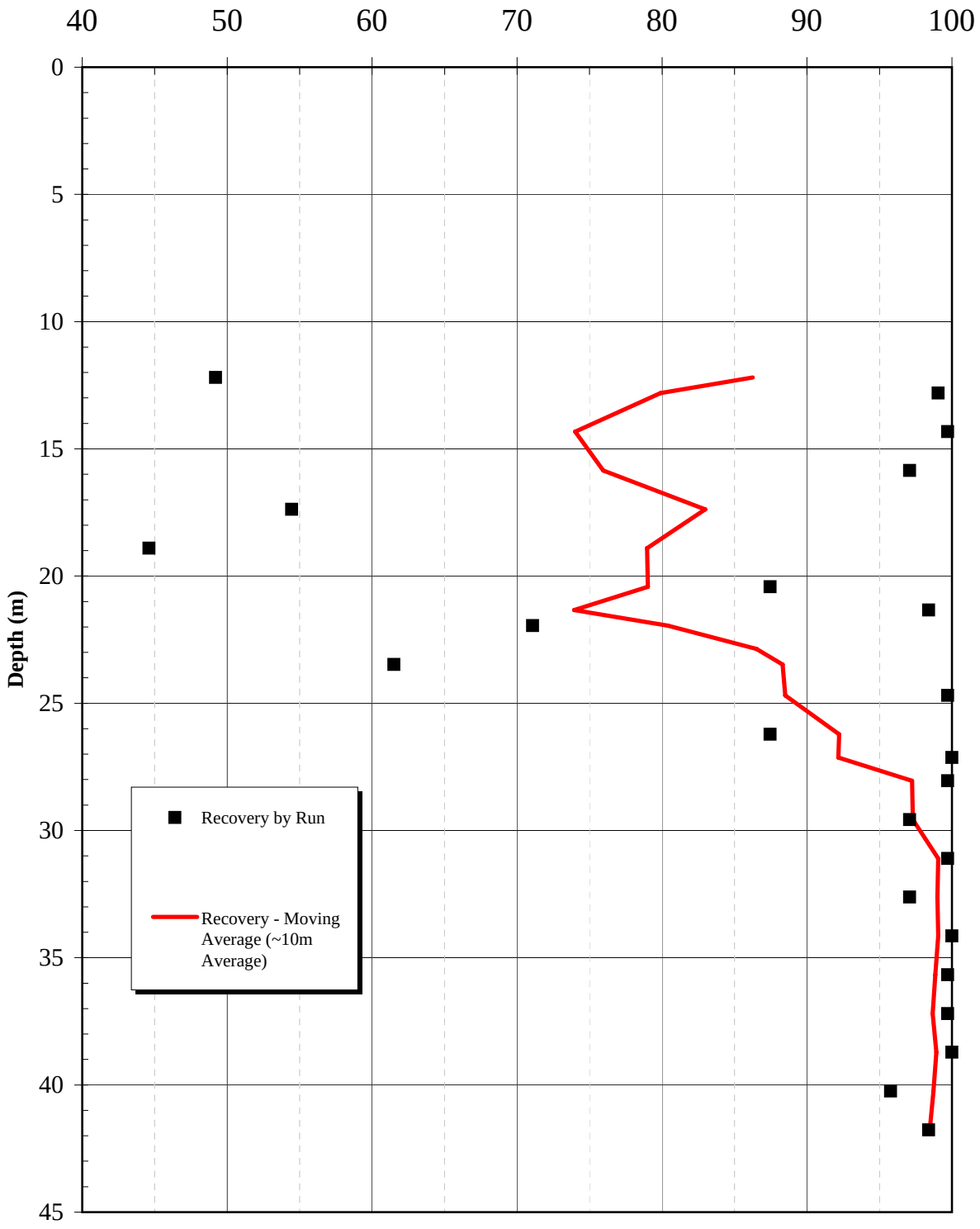
RECOVERY (%)



PACIFIC BOOKER MINERALS INC.		
MORRISON COPPER GOLD PROJECT		
GEOTECHNICAL SITE INVESTIGATION **RECOVERY VS. DEPTH** **DRILLHOLE DH06-7**		
Knight Piésold CONSULTING	PROJECT / ASSIGNMENT NO. VA101-00102/07-A	REF NO. 1
	FIGURE A3-21	REV. 0

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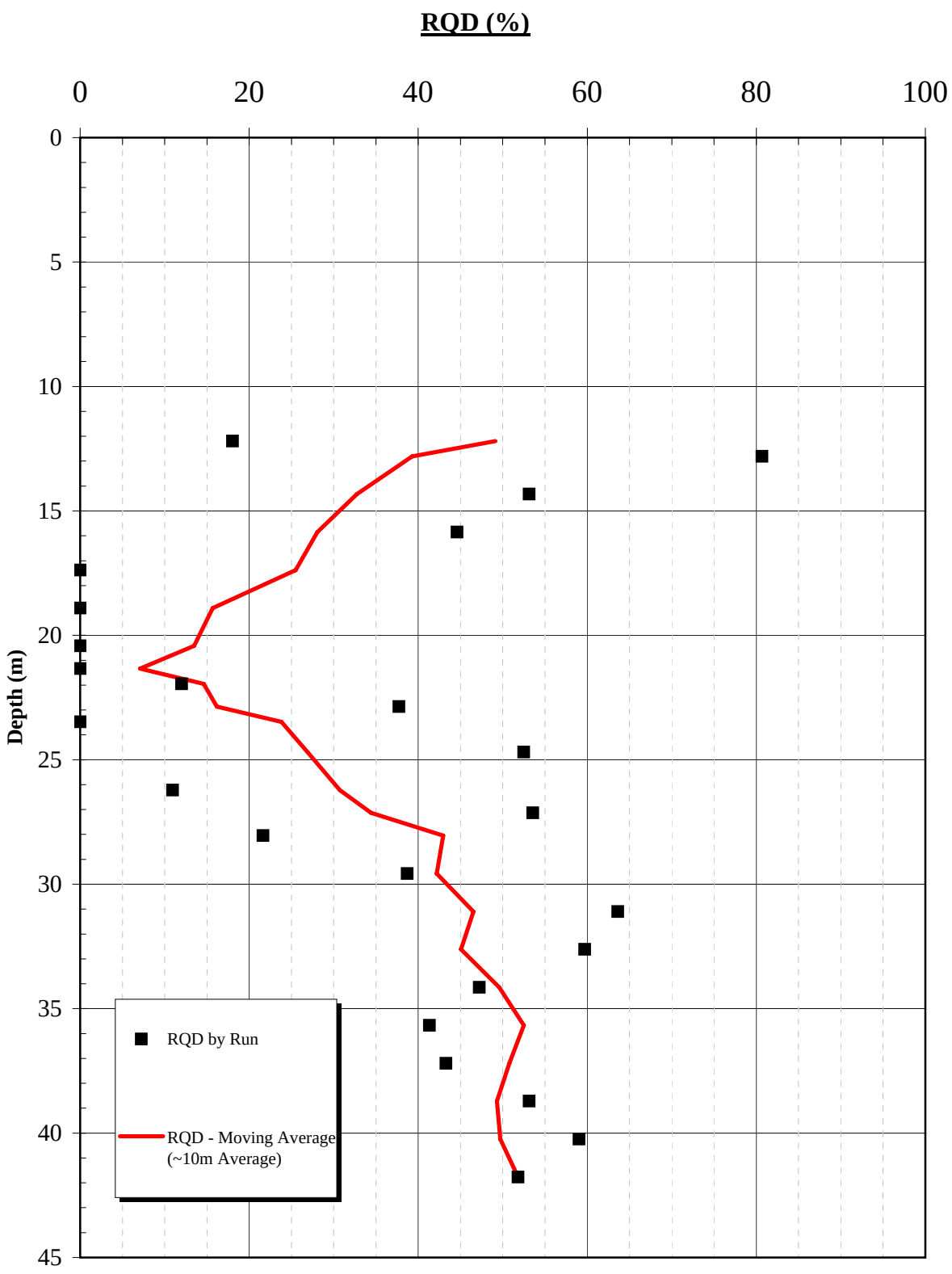

PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
RQD VS. DEPTH
DRILLHOLE DH06-7

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FIGURE A3-22

REV. 0

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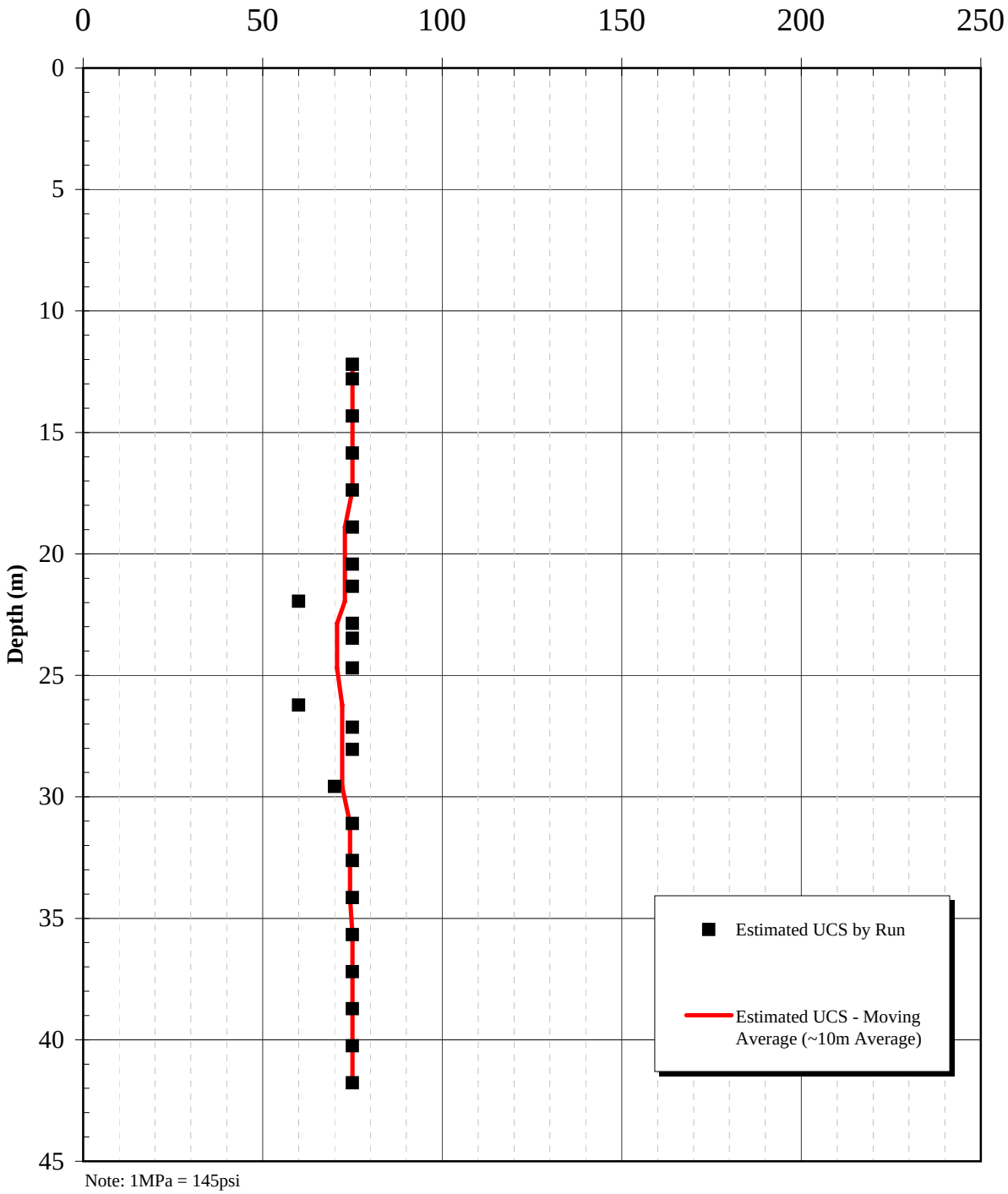
ESTIMATED UCS (MPa)



Note: 1MPa = 145psi

PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
ESTIMATED UCS VS. DEPTH
DRILLHOLE DH06-7

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FIGURE A3-23

REV. 0

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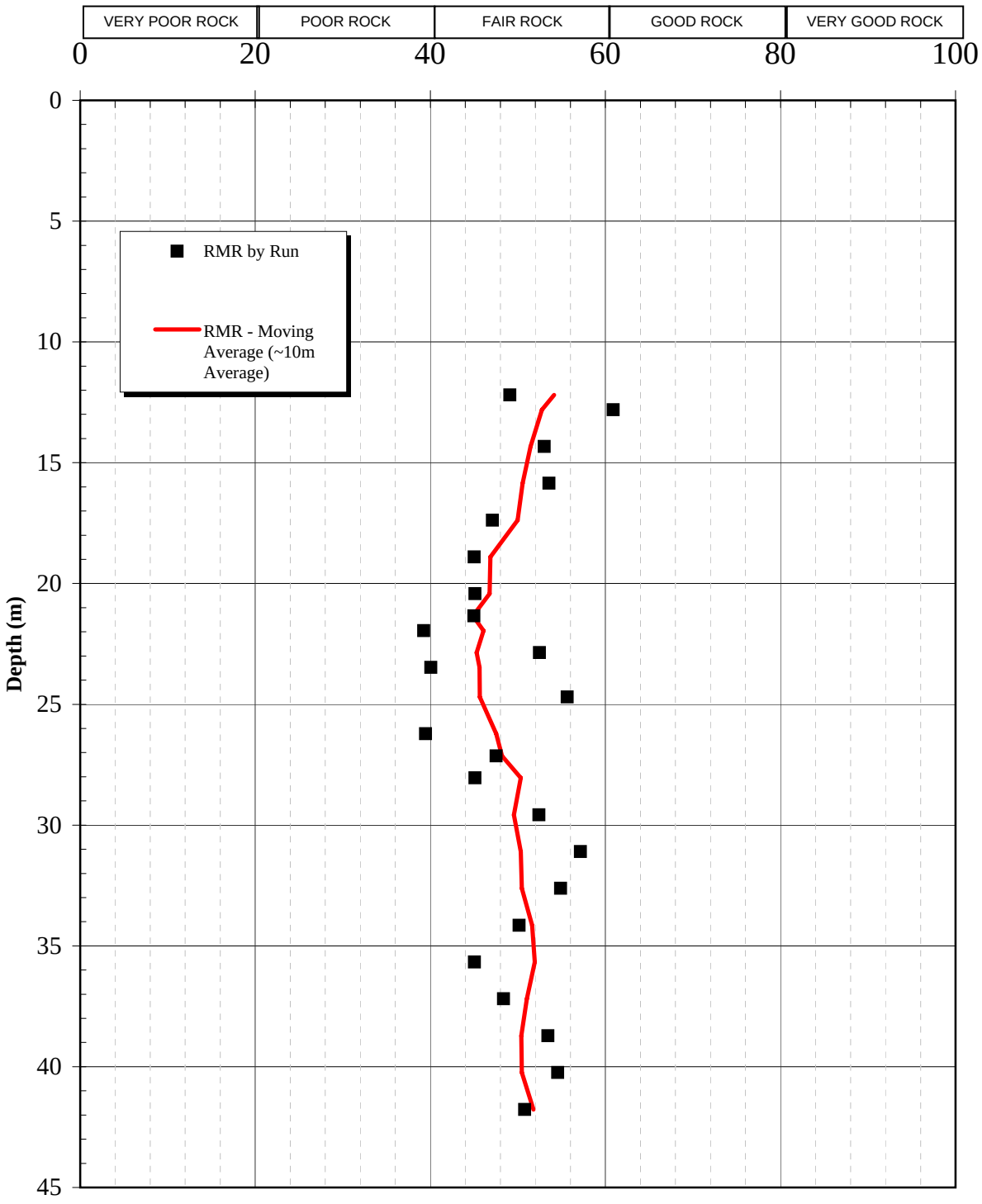
RMR



PACIFIC BOOKER MINERALS INC.		
MORRISON COPPER GOLD PROJECT		
GEOTECHNICAL SITE INVESTIGATION **RMR VS. DEPTH** **DRILLHOLE DH06-7**		
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FIGURE A3-24		REV. 0

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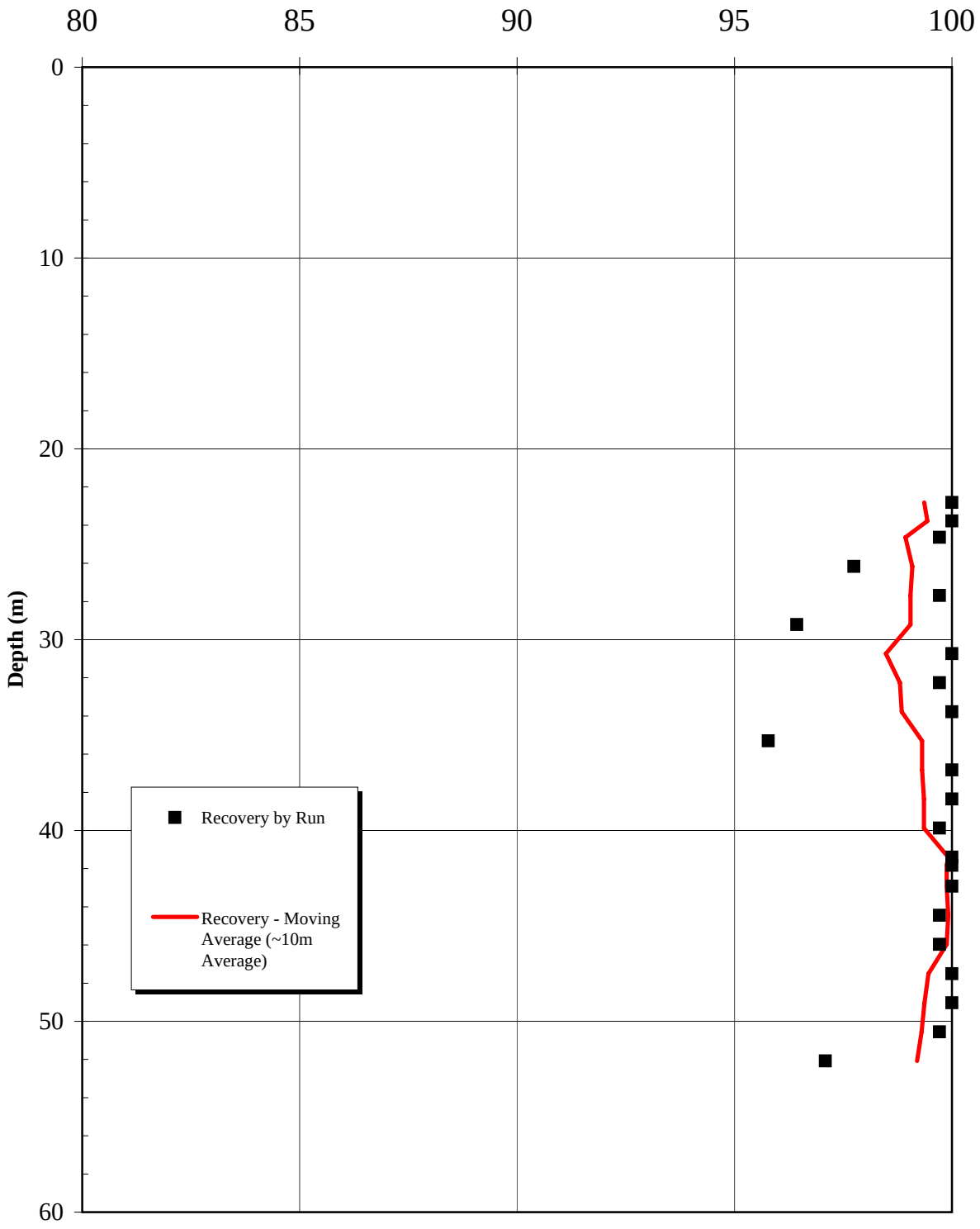
RECOVERY (%)



PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
RECOVERY VS. DEPTH
DRILLHOLE DH06-10

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FIGURE A3-25

REV. 0

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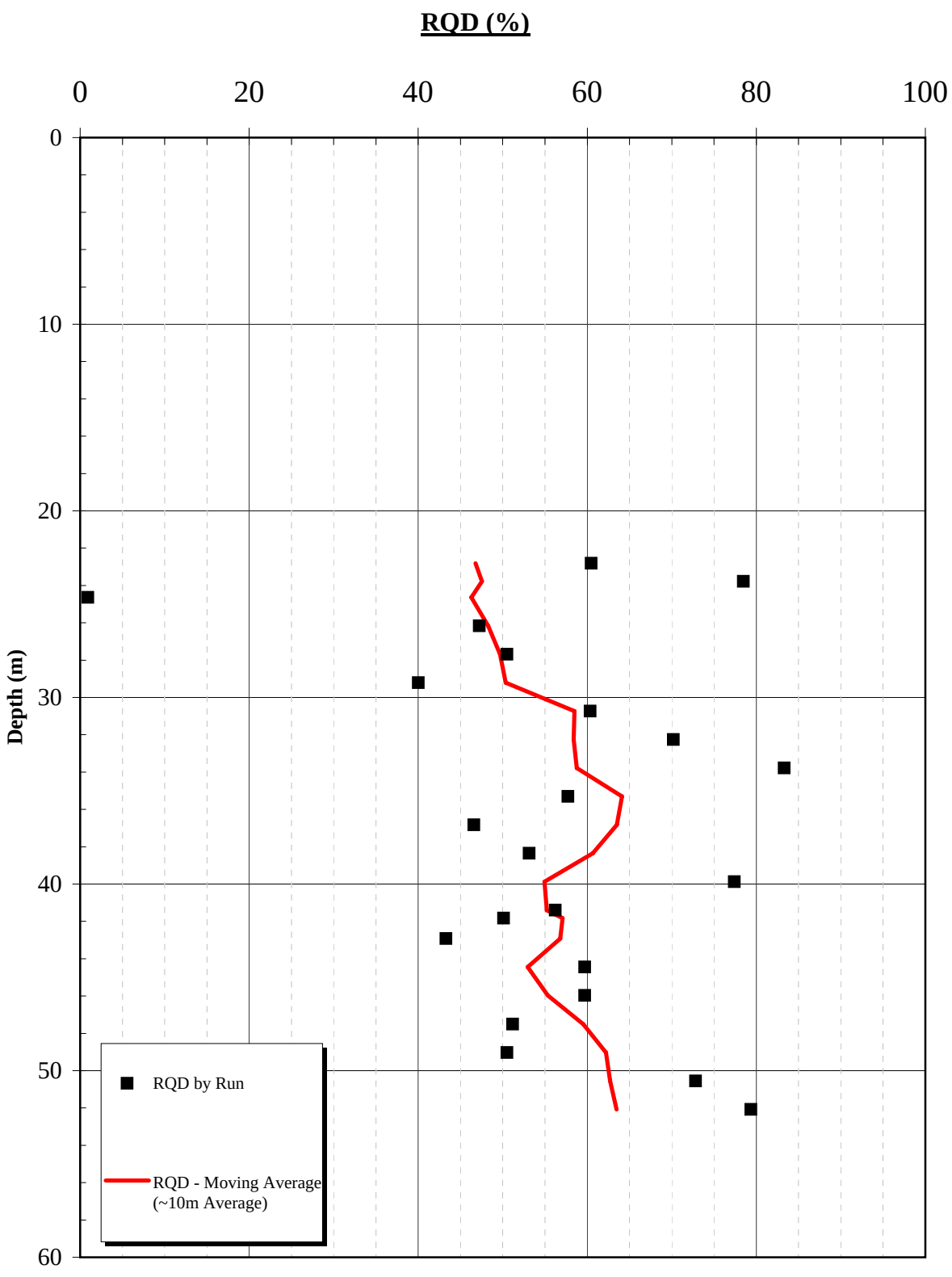

PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
RQD VS. DEPTH
DRILLHOLE DH06-10

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FIGURE A3-26

REV. 0

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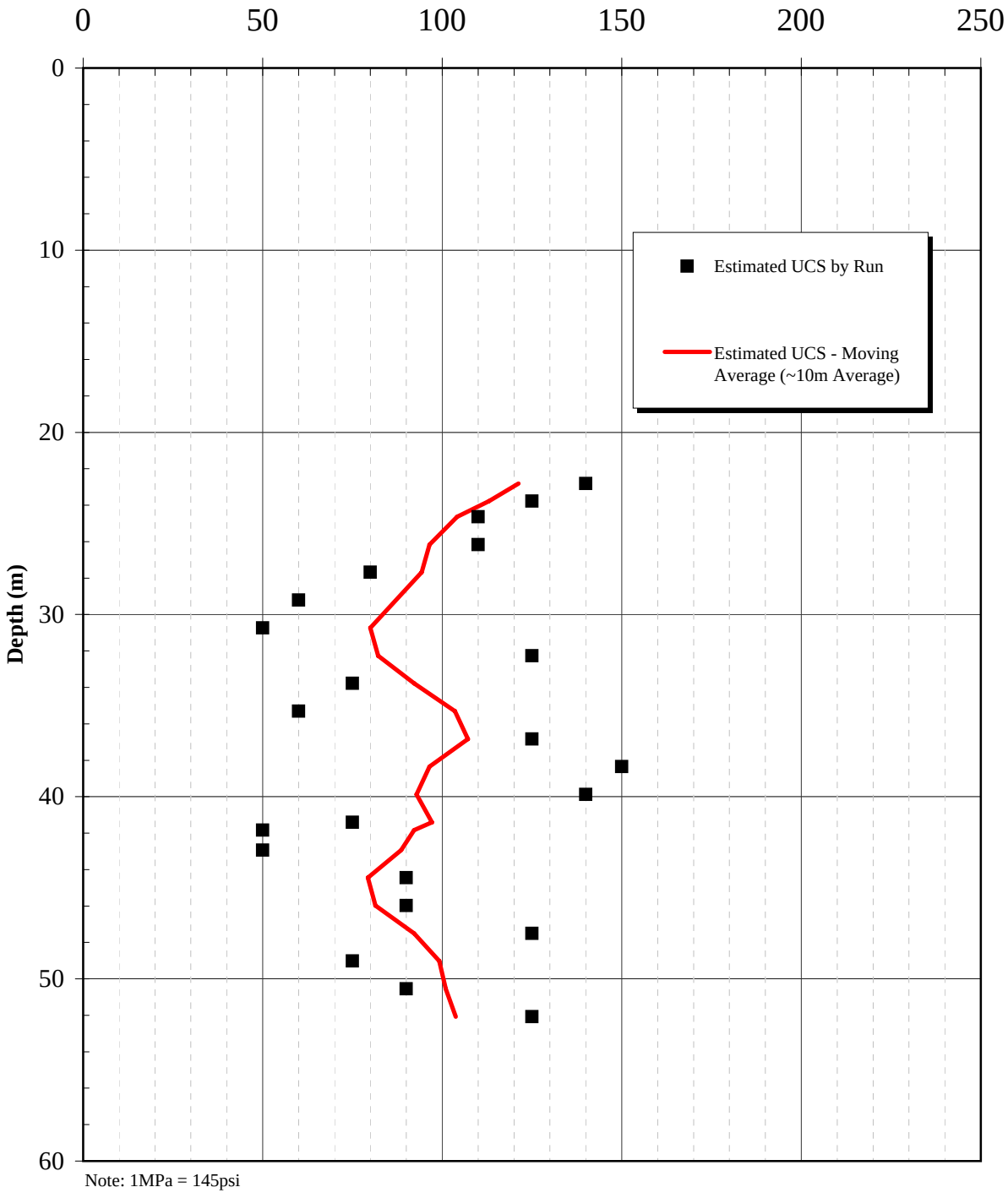
ESTIMATED UCS (MPa)



Note: 1MPa = 145psi

PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
ESTIMATED UCS VS. DEPTH
DRILLHOLE DH06-10

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PROJECT / ASSIGNMENT NO. VA101-00102/07-A

REF NO. 1

FIGURE A3-27

REV. 0

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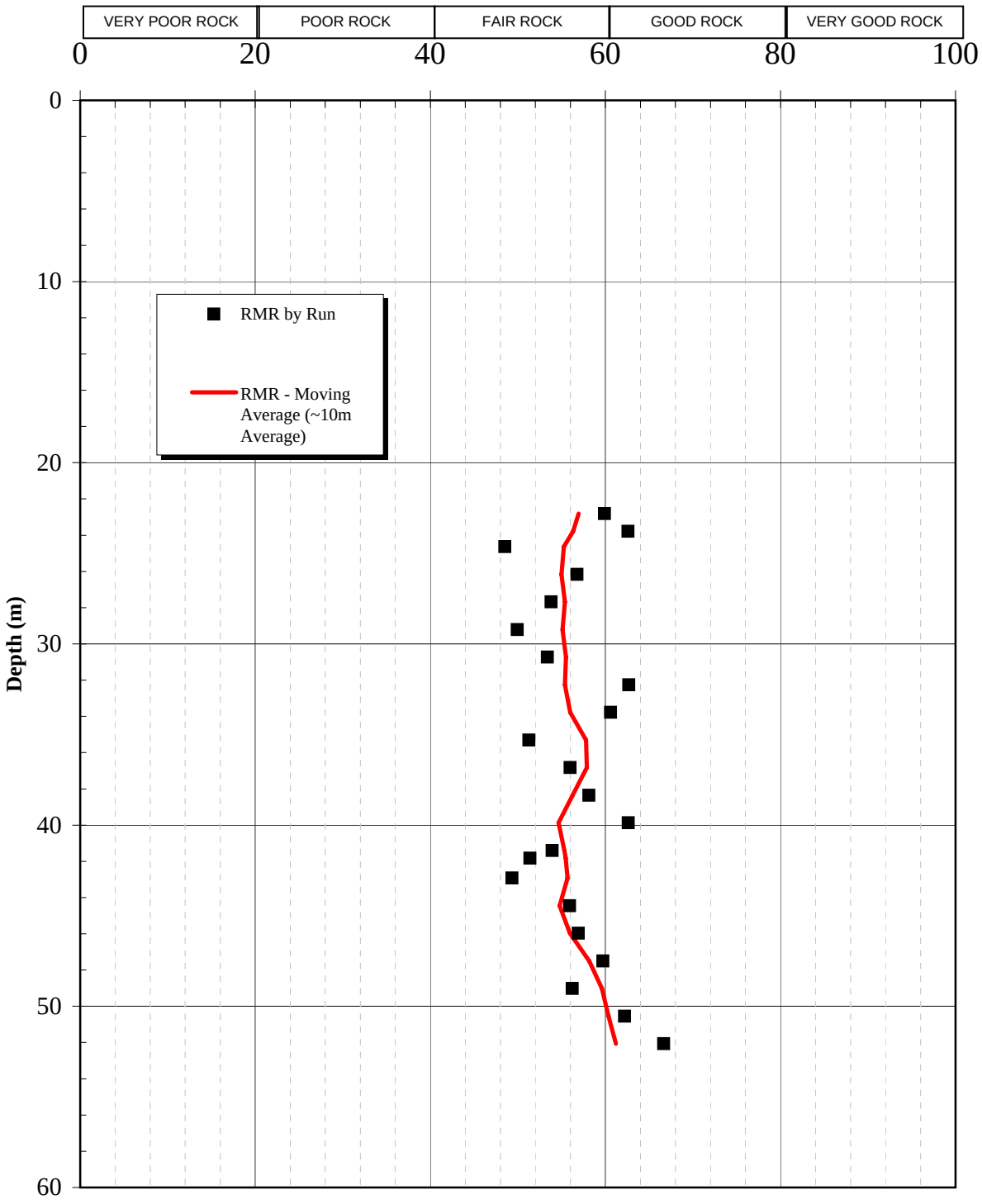
RMR



PACIFIC BOOKER MINERALS INC.		
MORRISON COPPER GOLD PROJECT		
GEOTECHNICAL SITE INVESTIGATION **RMR VS. DEPTH** **DRILLHOLE DH06-10**		
Knight Piésold CONSULTING	PROJECT / ASSIGNMENT NO. VA101-00102/07-A	REF NO. 1
FIGURE A3-28		REV. 0

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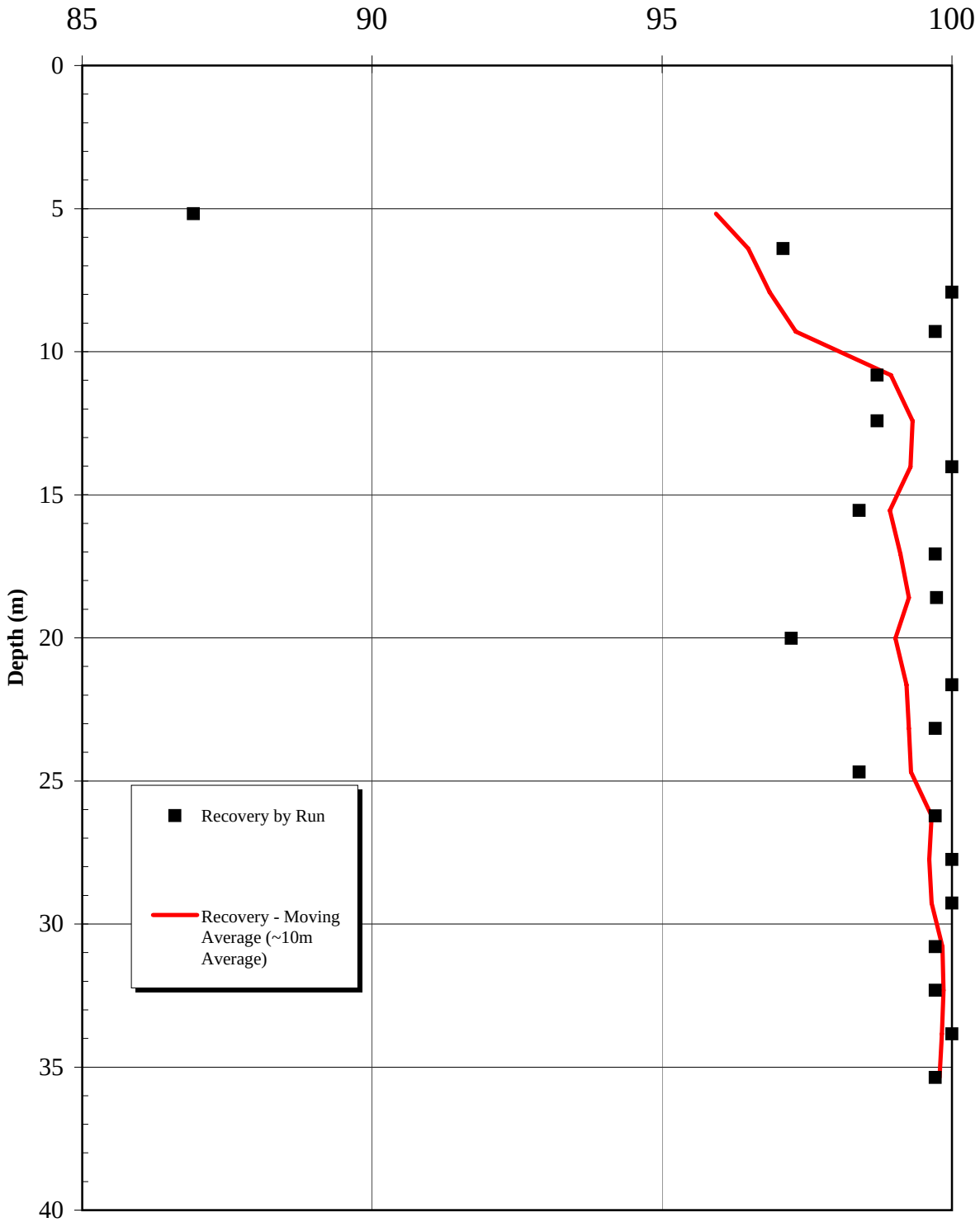
RECOVERY (%)



PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
RECOVERY VS. DEPTH
DRILLHOLE DH06-11

Knight Piésold CONSULTING

PROJECT / ASSIGNMENT NO.	REF NO.
VA101-00102/07-A	1

FIGURE A3-29

REV. 0

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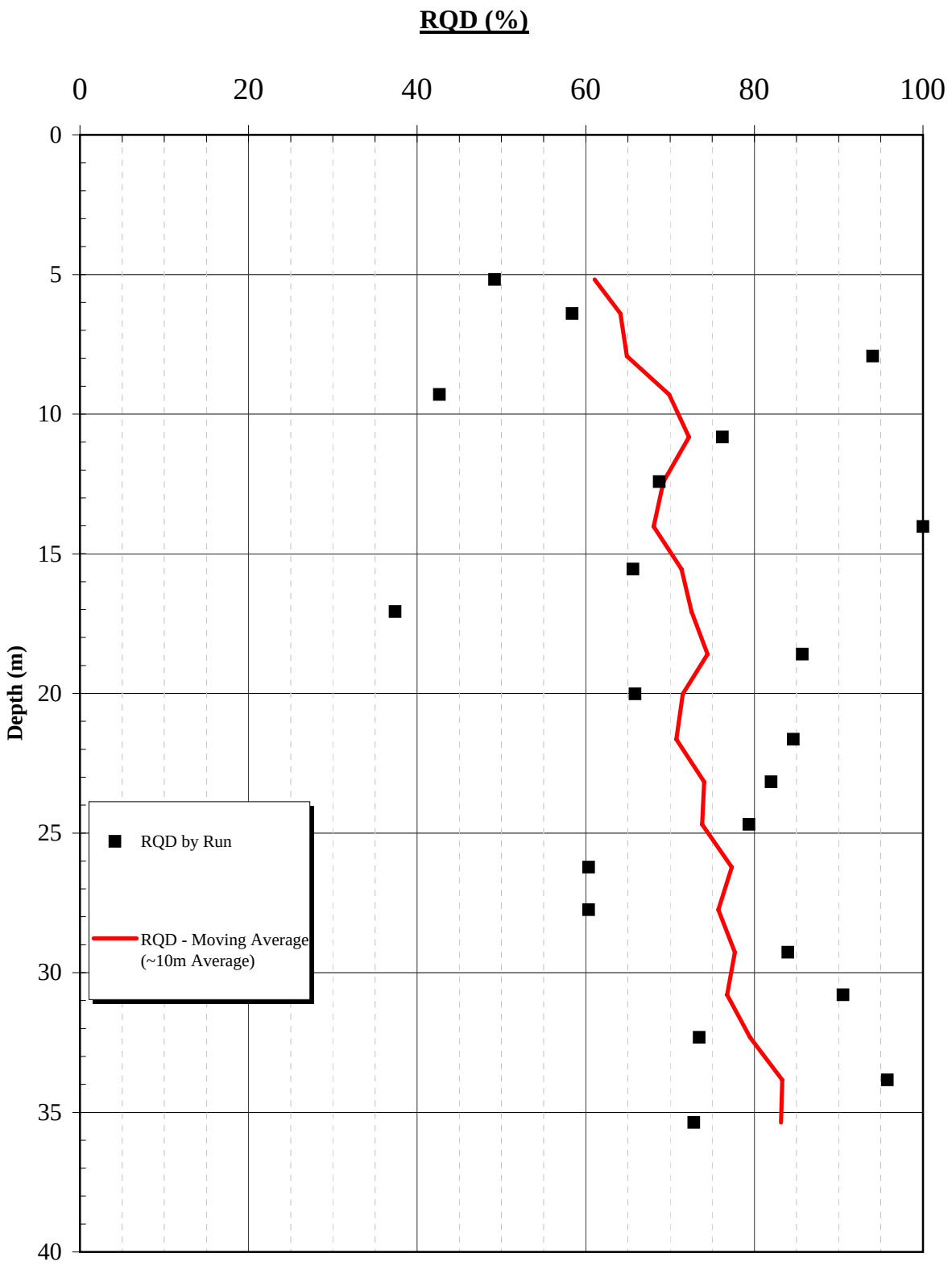

PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
RQD VS. DEPTH
DRILLHOLE DH06-11

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REF NO. 1

FIGURE A3-30

REV. 0

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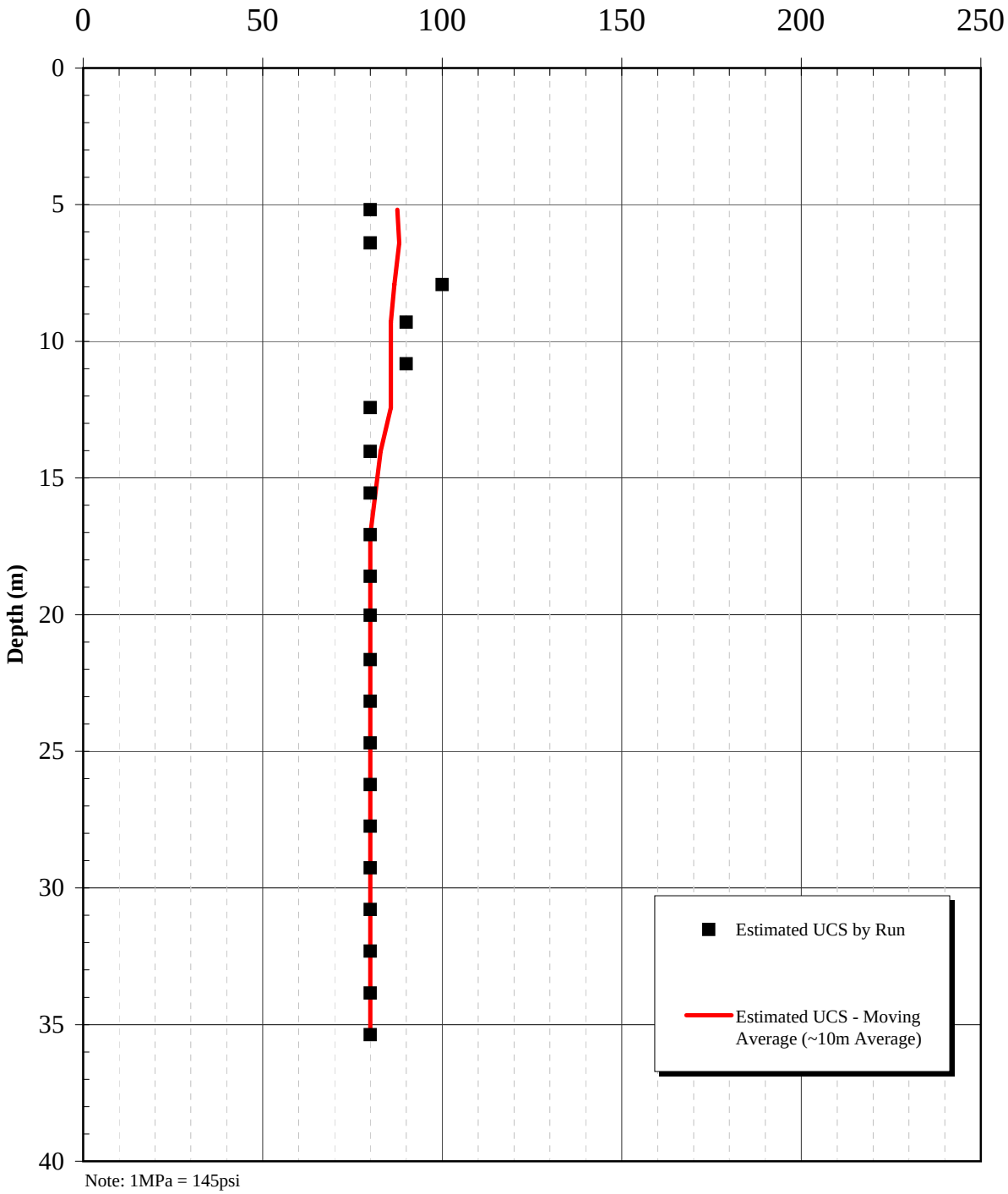
ESTIMATED UCS (MPa)



Note: 1MPa = 145psi

PACIFIC BOOKER MINERALS INC.		
MORRISON COPPER GOLD PROJECT		
GEOTECHNICAL SITE INVESTIGATION **ESTIMATED UCS VS. DEPTH** **DRILLHOLE DH06-11**		
Knight Piésold CONSULTING	PROJECT / ASSIGNMENT NO. VA101-00102/07-A	REF NO. 1
	FIGURE A3-31	REV. 0

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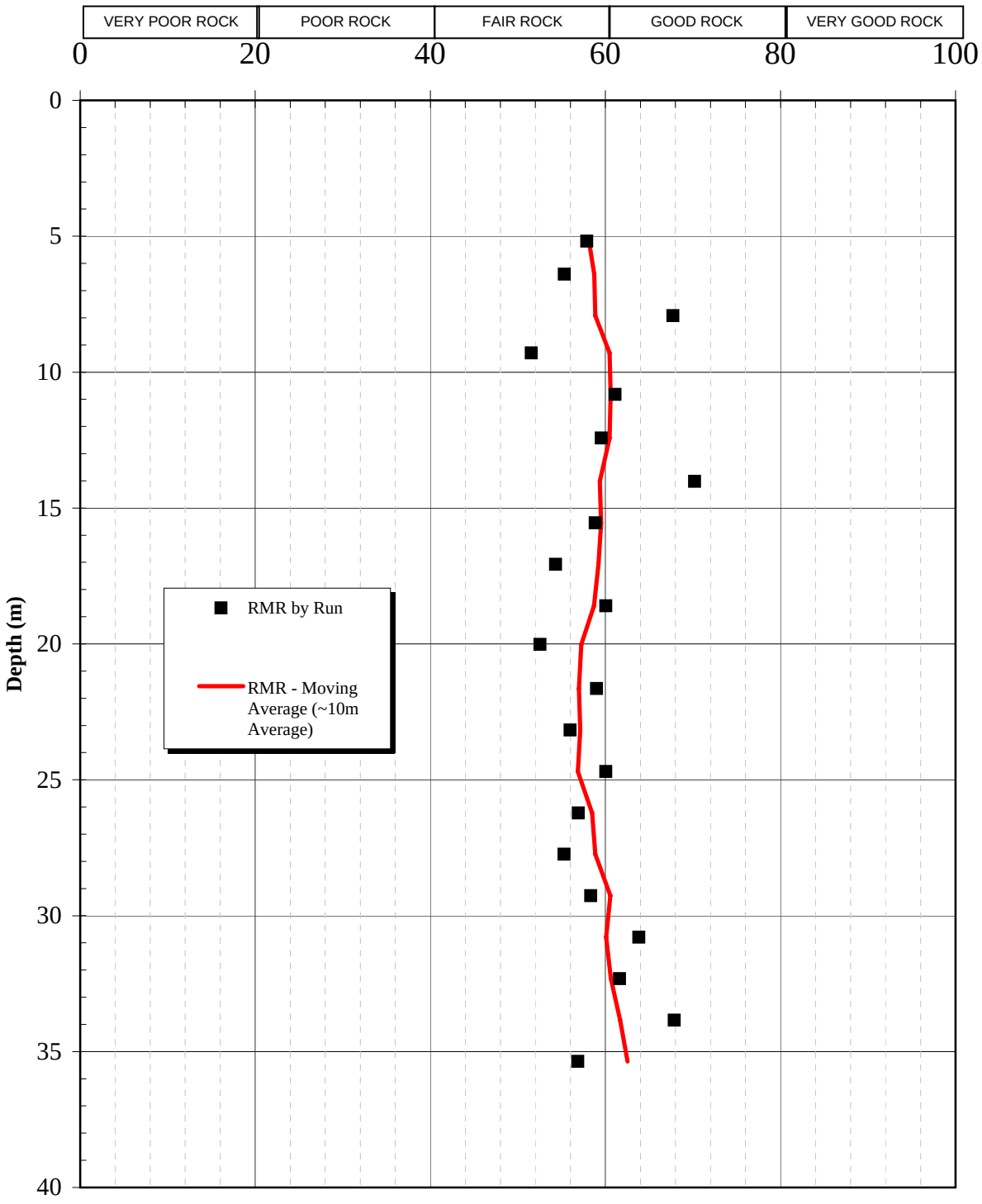
RMR



PACIFIC BOOKER MINERALS INC.		
MORRISON COPPER GOLD PROJECT		
GEOTECHNICAL SITE INVESTIGATION **RMR VS. DEPTH** **DRILLHOLE DH06-11**		
Knight Piésold CONSULTING	PROJECT / ASSIGNMENT NO. VA101-00102/07-A	REF NO. 1
FIGURE A3-32		REV. 0

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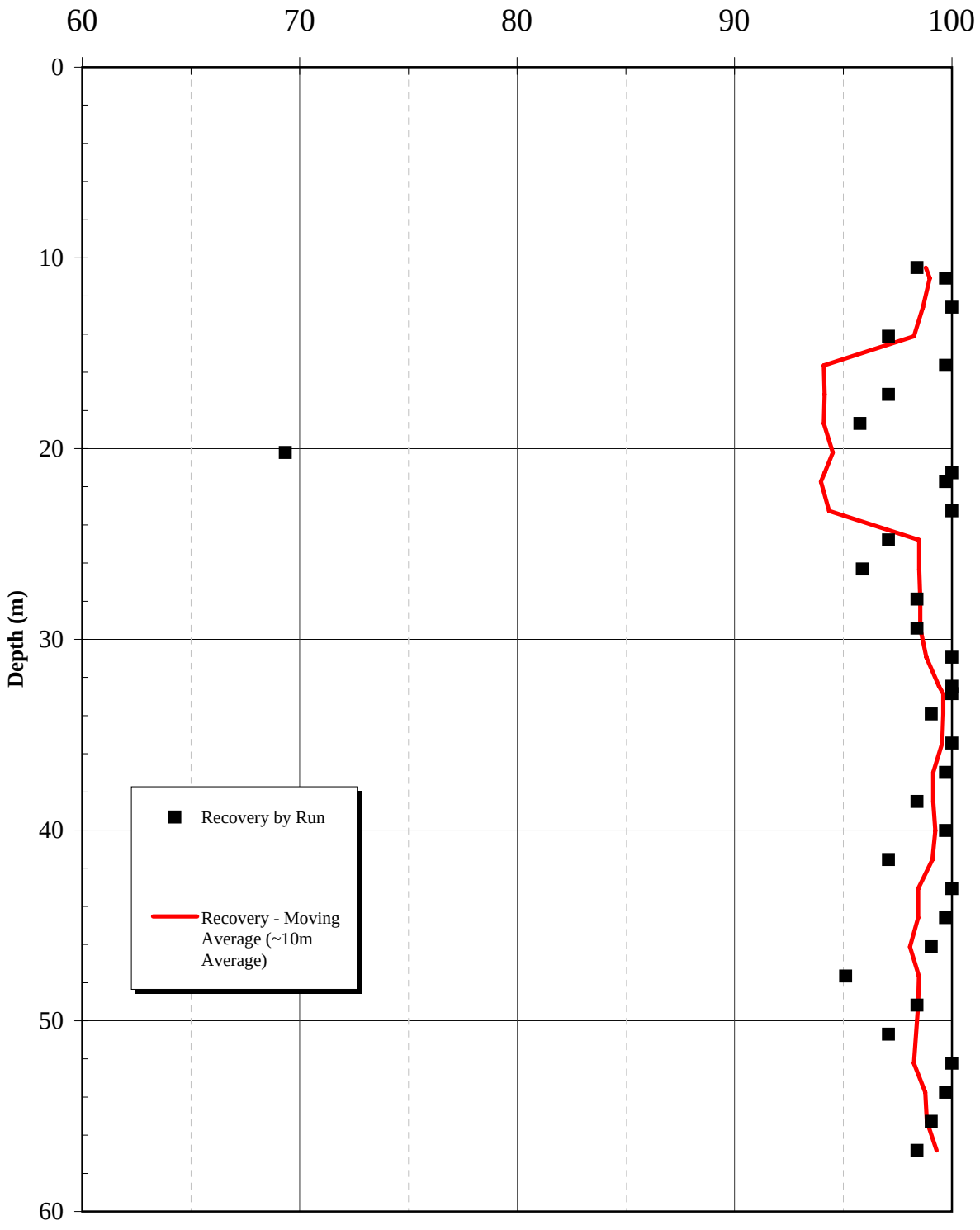
RECOVERY (%)



PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
RECOVERY VS. DEPTH
DRILLHOLE DH06-12

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FIGURE A3-33

REV. 0

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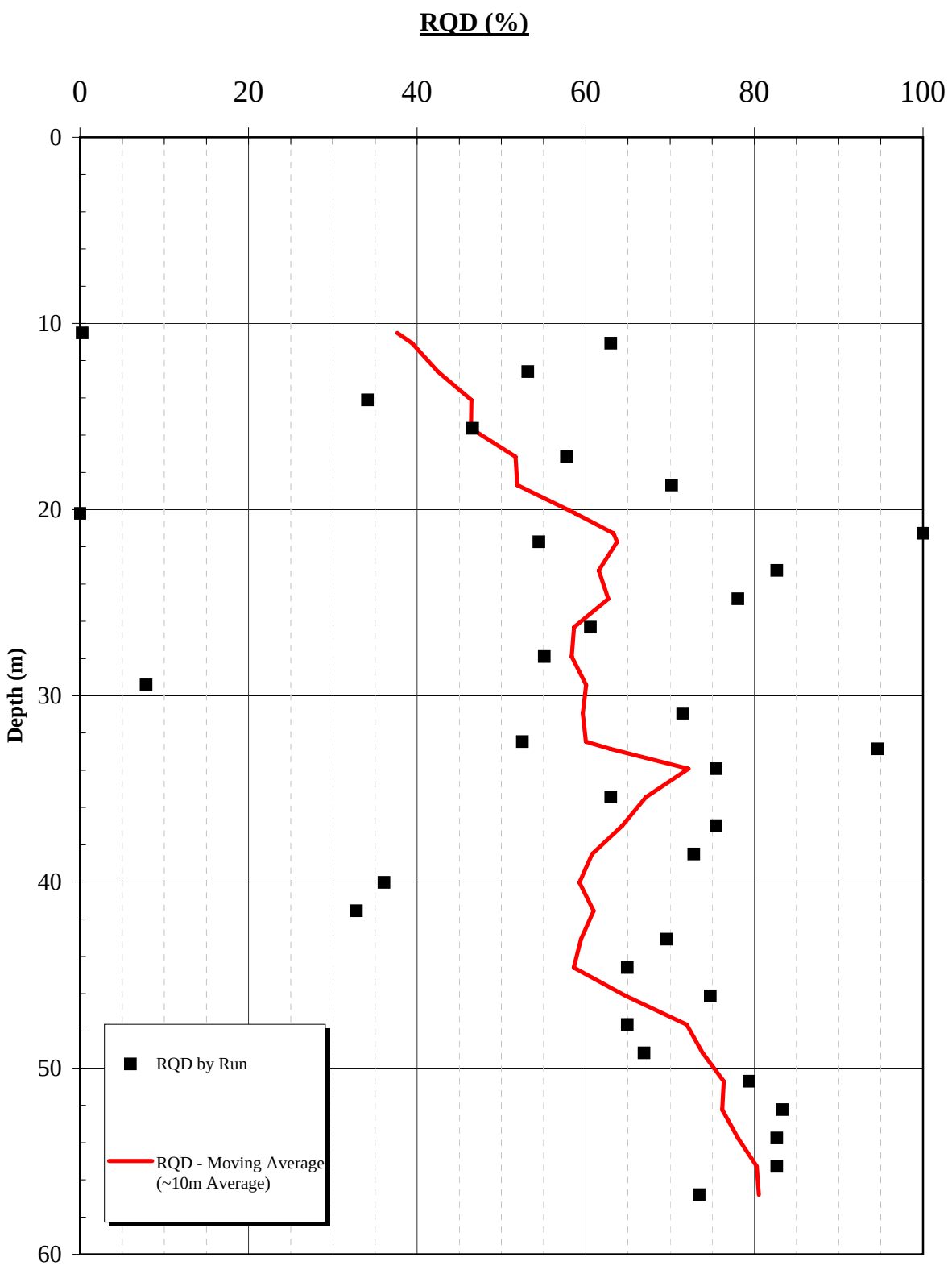

PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
RQD VS. DEPTH
DRILLHOLE DH06-12

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REF NO. 1

FIGURE A3-34

REV. 0

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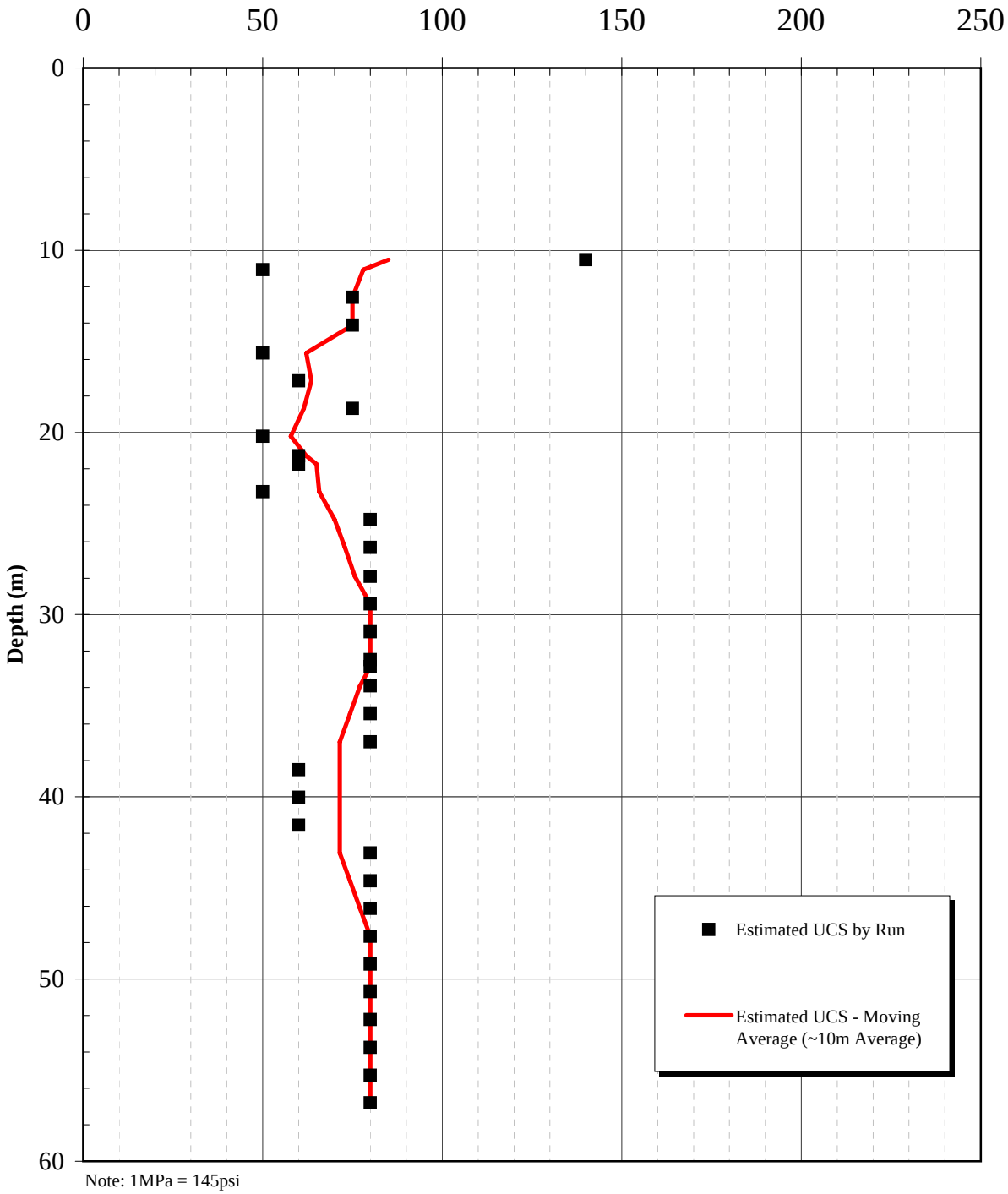
ESTIMATED UCS (MPa)



Note: 1MPa = 145psi

PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
ESTIMATED UCS VS. DEPTH
DRILLHOLE DH06-12

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FIGURE A3-35

REV. 0

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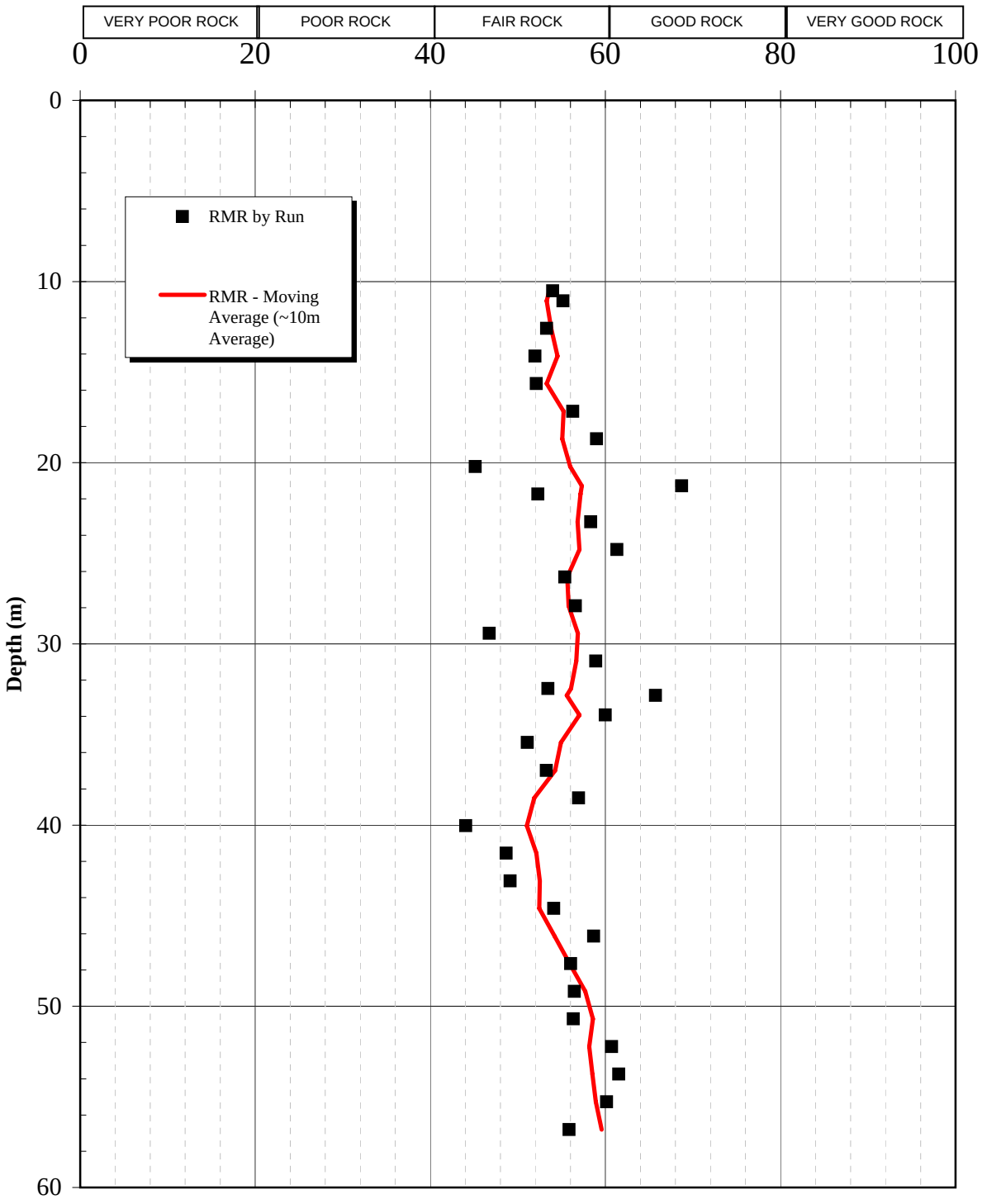
RMR



PACIFIC BOOKER MINERALS INC.		
MORRISON COPPER GOLD PROJECT		
GEOTECHNICAL SITE INVESTIGATION **RMR VS. DEPTH** **DRILLHOLE DH06-12**		
Knight Piésold CONSULTING	PROJECT / ASSIGNMENT NO. VA101-00102/07-A	REF NO. 1
FIGURE A3-36		REV. 0

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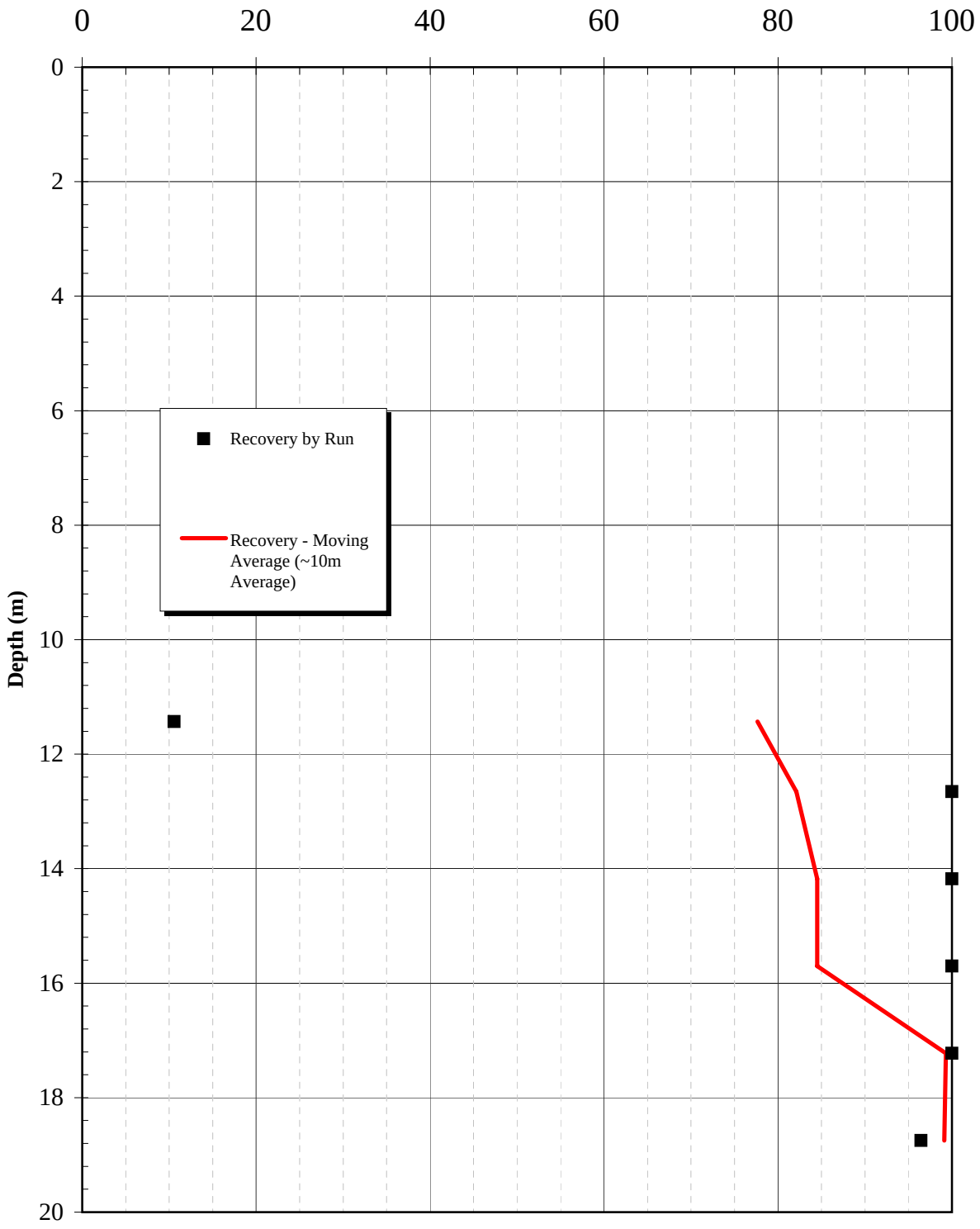
RECOVERY (%)



PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
RECOVERY VS. DEPTH
DRILLHOLE DH06-13

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PROJECT / ASSIGNMENT NO.	REF NO.
VA101-00102/07-A	1

FIGURE A3-37

REV. 0

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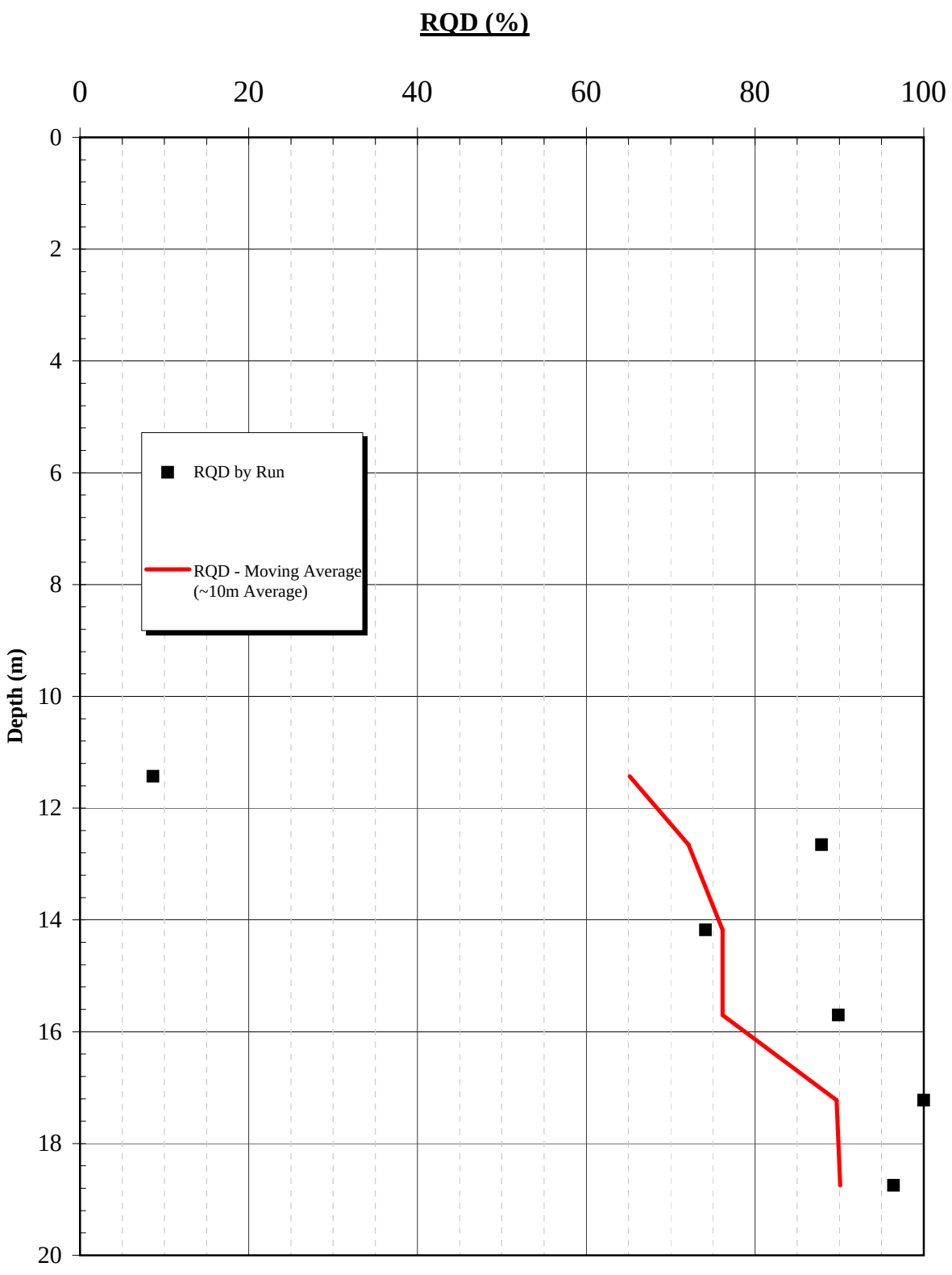

PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
RQD VS. DEPTH
DRILLHOLE DH06-13

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REF NO. 1

FIGURE A3-38

REV. 0

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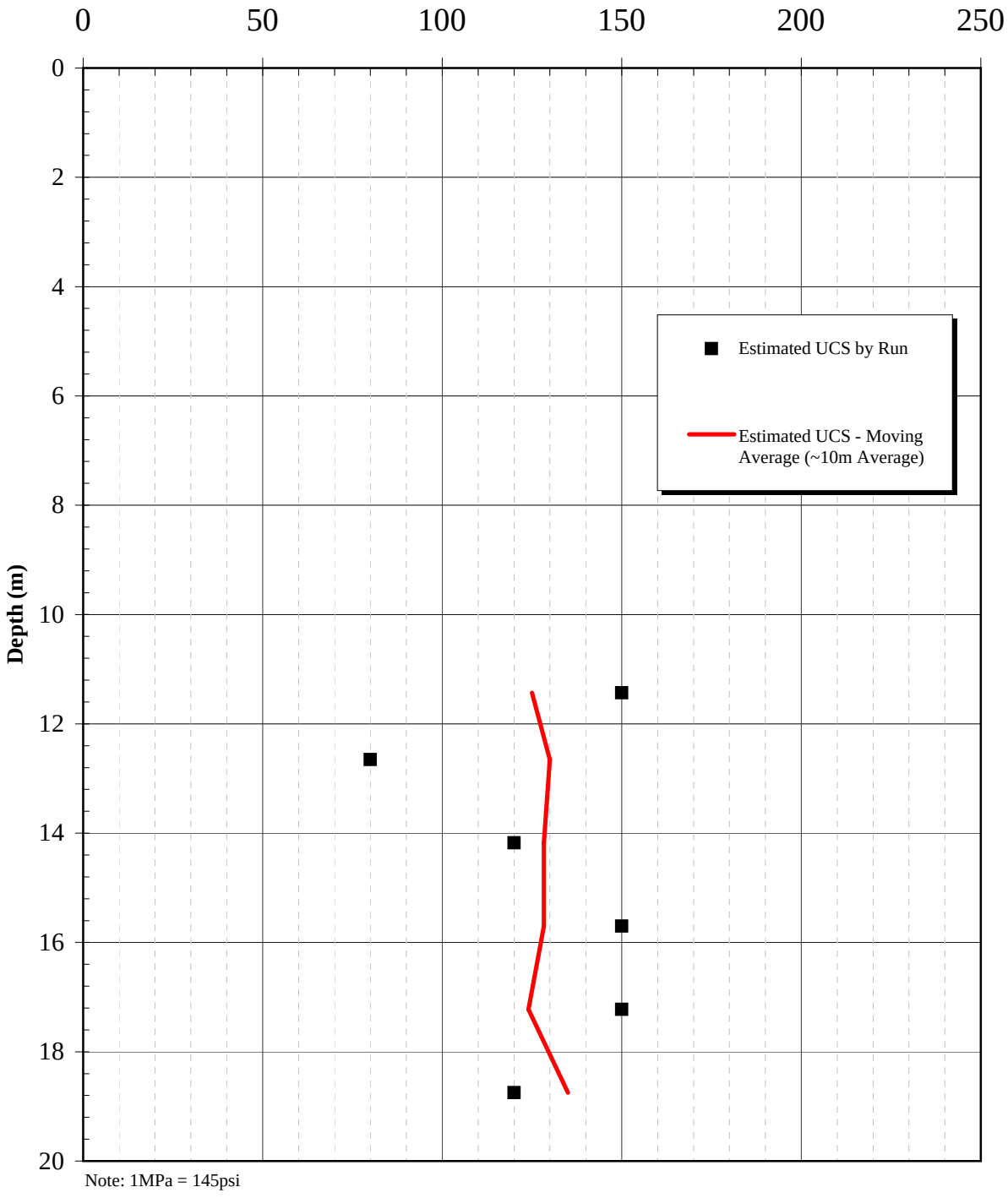
ESTIMATED UCS (MPa)



Note: 1MPa = 145psi

PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
ESTIMATED UCS VS. DEPTH
DRILLHOLE DH06-13

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REF NO. 1

FIGURE A3-39

REV. 0

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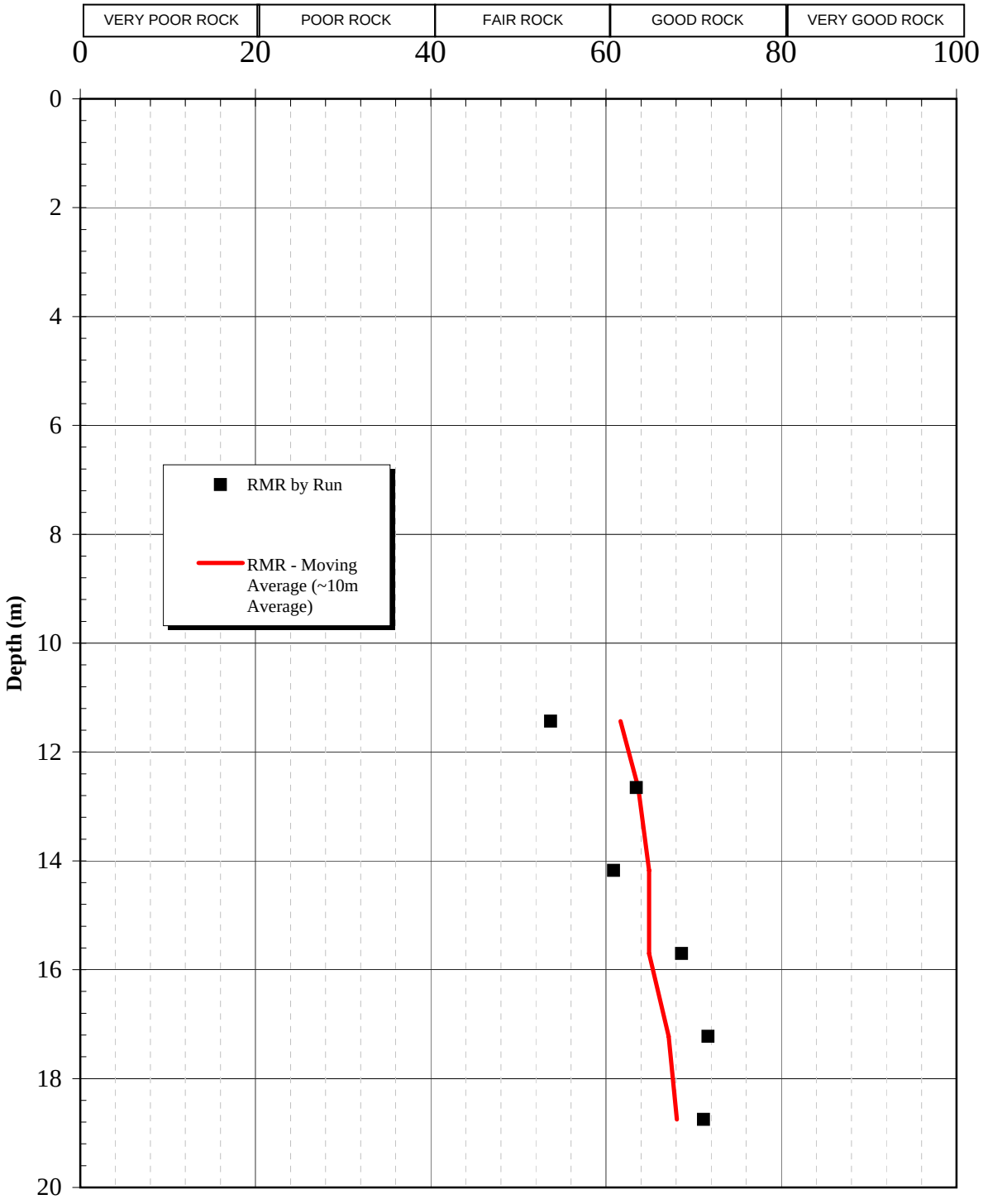
RMR



PACIFIC BOOKER MINERALS INC.		
MORRISON COPPER GOLD PROJECT		
GEOTECHNICAL SITE INVESTIGATION **RMR VS. DEPTH** **DRILLHOLE DH06-13**		
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FIGURE A3-40		REV. 0

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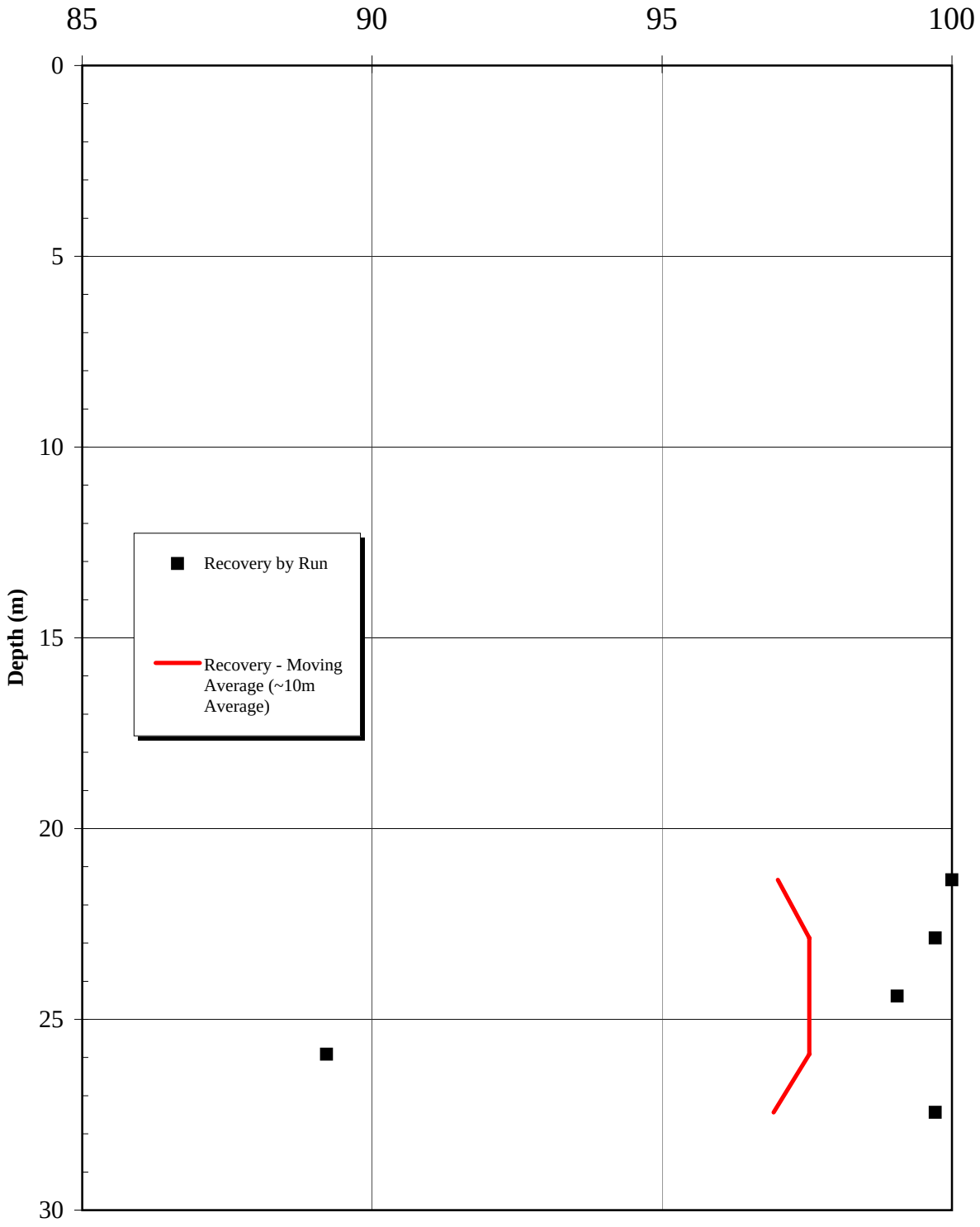
RECOVERY (%)



PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
RECOVERY VS. DEPTH
DRILLHOLE DH06-14

Knight Piésold CONSULTING

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FIGURE A3-41

REV. 0

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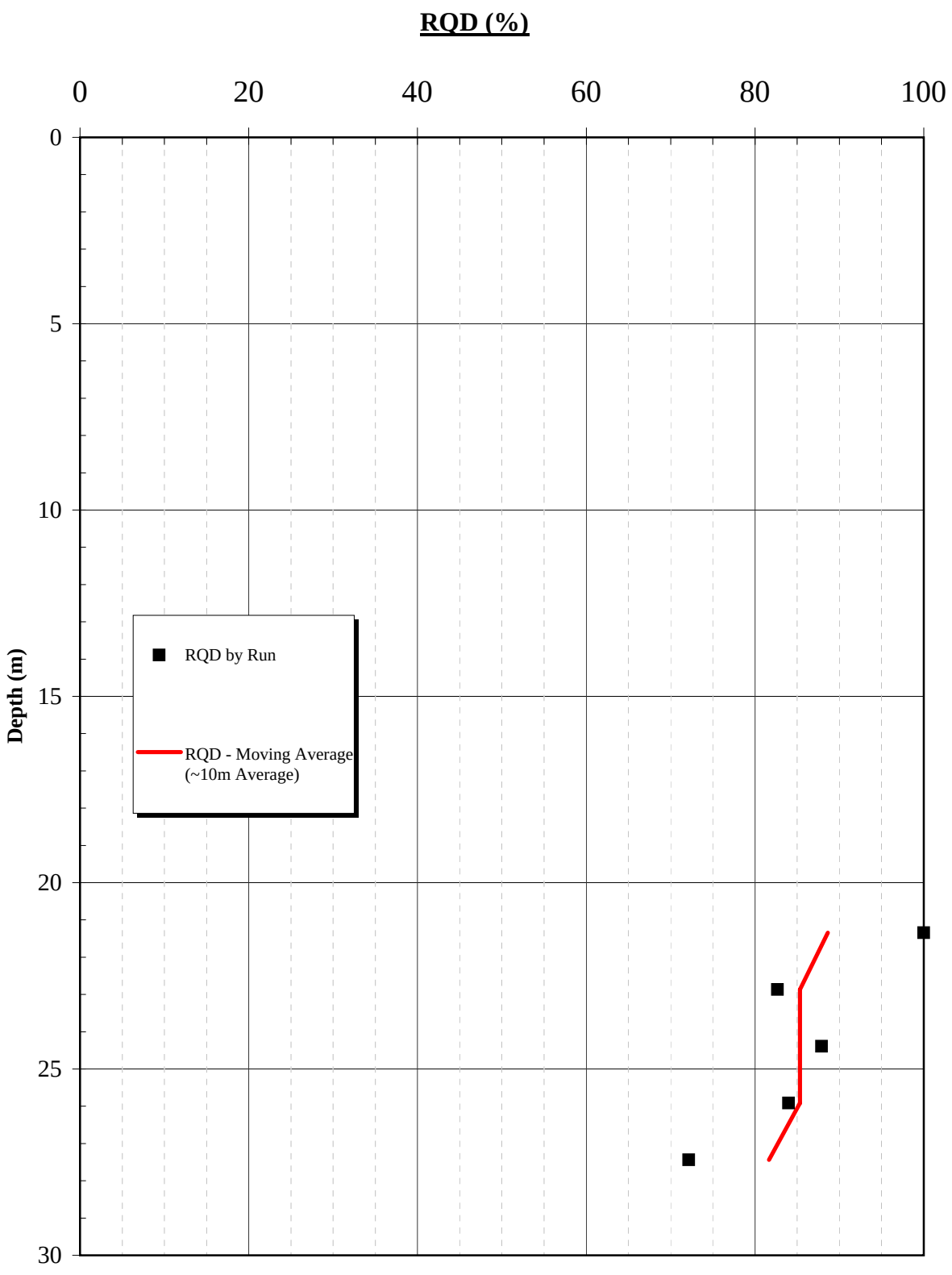

PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
RQD VS. DEPTH
DRILLHOLE DH06-14

Knight Piésold CONSULTING

PROJECT / ASSIGNMENT NO.	REF NO.
VA101-00102/07-A	1

FIGURE A3-42

REV. 0

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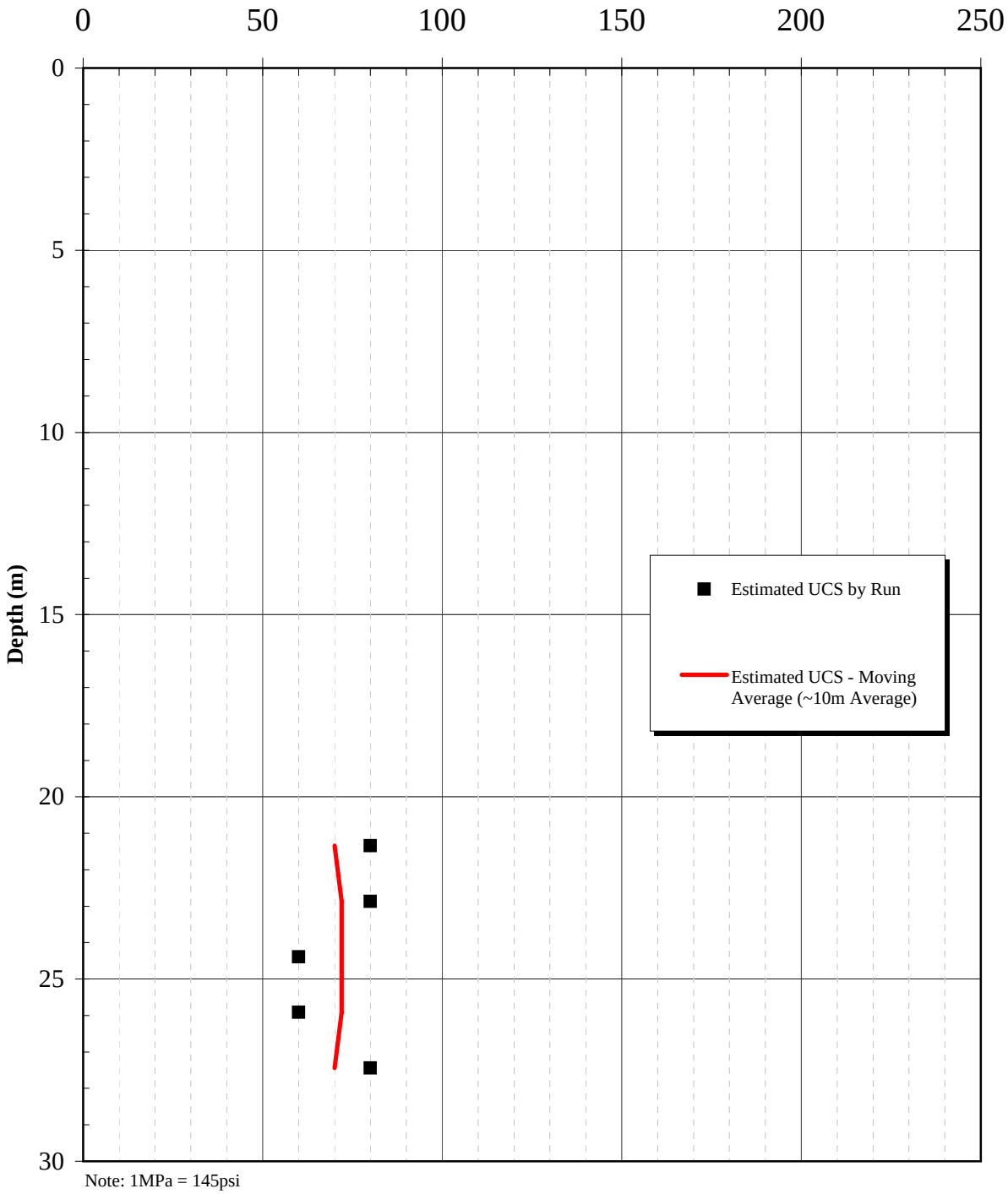
ESTIMATED UCS (MPa)



Note: 1MPa = 145psi

PACIFIC BOOKER MINERALS INC.

MORRISON COPPER GOLD PROJECT

GEOTECHNICAL SITE INVESTIGATION
ESTIMATED UCS VS. DEPTH
DRILLHOLE DH06-14

Knight Piésold CONSULTING

PROJECT / ASSIGNMENT NO.	REF NO.
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FIGURE A3-43

REV. 0

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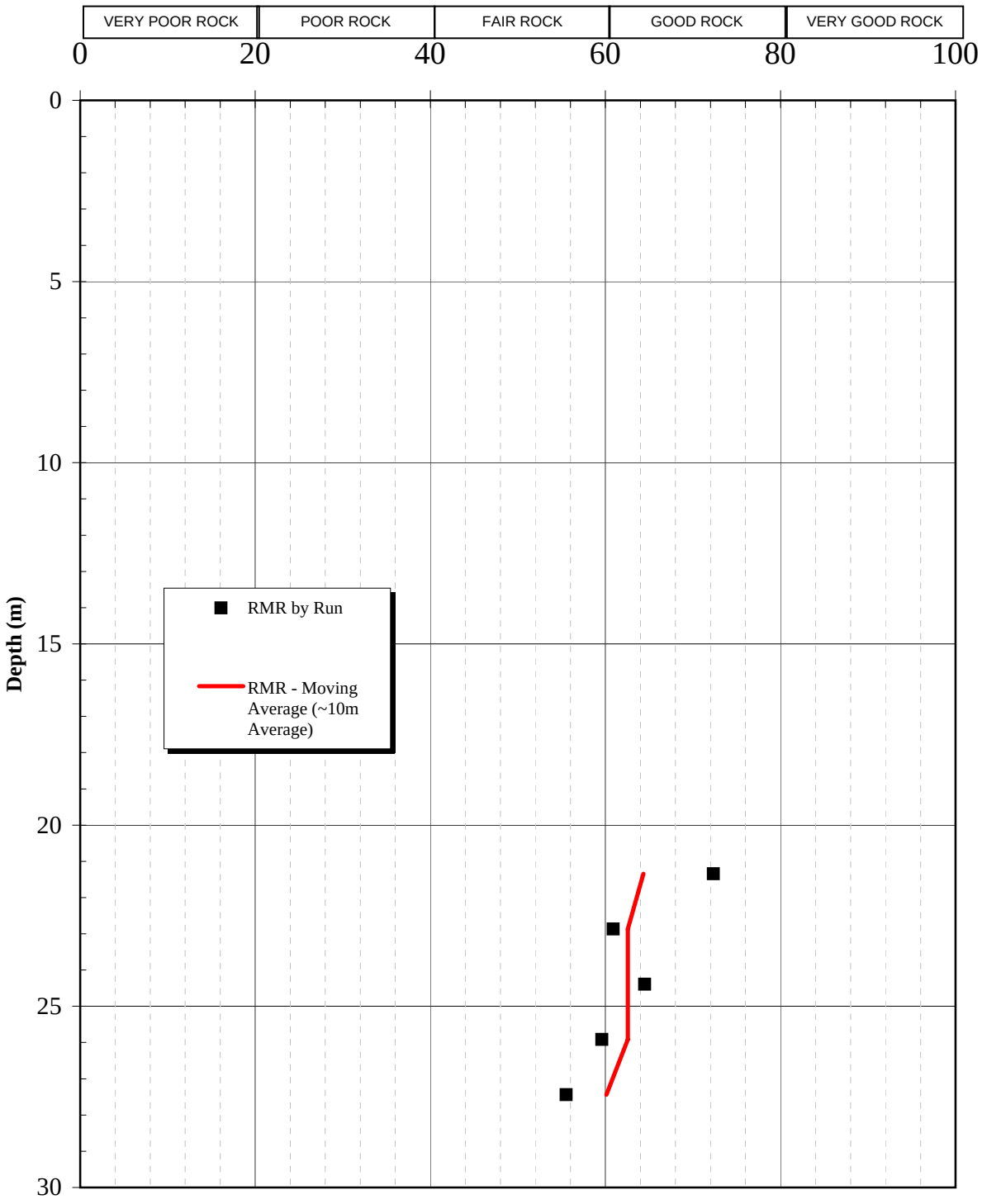
RMR



PACIFIC BOOKER MINERALS INC.		
MORRISON COPPER GOLD PROJECT		
GEOTECHNICAL SITE INVESTIGATION **RMR VS. DEPTH** **DRILLHOLE DH06-14**		
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FIGURE A3-44		REV. 0

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APPENDIX B
(Rev 0)

FIELD TESTS

APPENDIX B1	PACKER PERMEABILITY TESTING SHEETS
APPENDIX B2	WELL COMPLETION DETAILS
APPENDIX B3	TESTPIT LOGS

APPENDIX B1
(Rev 0)

PACKER PERMEABILITY TESTING SHEETS

- Drillhole DH06-1
- Drillhole DH06-2
- Drillhole DH06-3
- Drillhole DH06-4
- Drillhole DH06-6
- Drillhole DH06-7
- Drillhole DH06-11
- Drillhole DH06-12
- Drillhole DH06-13
- Drillhole DH06-14

(Pages B1-1 to B1-11)

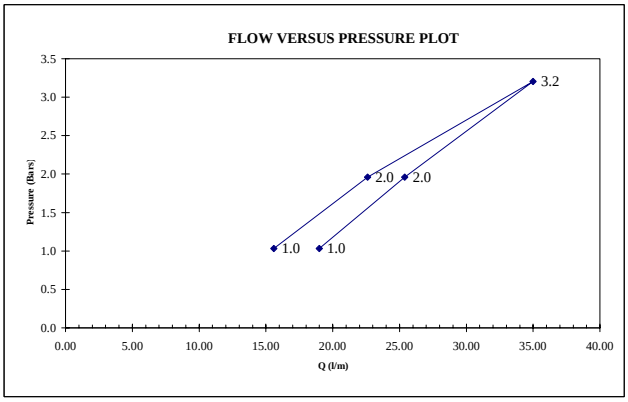
SHEET 1 OF 1

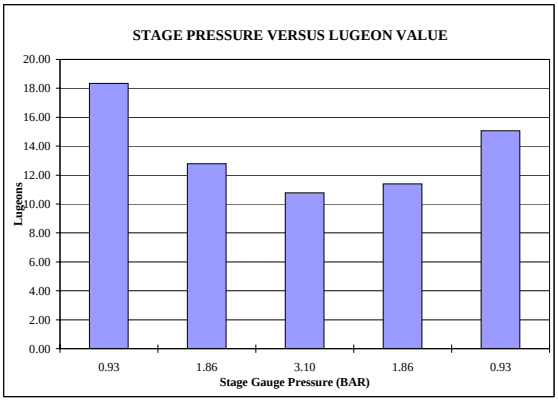
LUGEON TEST FIELD DATA SHEET

Knight Piésold CONSULTING

PROJECT:	Morrison Copper Gold	PROJECT NO:	101-102/7	DRILLHOLE:	DH06-1
AREA:	Upstream from Millsite and Service Buildings			TEST NO:	1
DIPS:	60 ° (FROM HORIZONTAL)	DEPTH GROUNDWATER:	m	TOP OF TEST INTERVAL:	27.4 m (DOWN HOLE)
DATE:	03-27-06	GAUGE HEIGHT ABOVE GROUND:	1.0 m	BOTTOM OF TEST INTERVAL:	60.8 m (DOWN HOLE)

GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	5227.00	5246.00	5266.00	5285.00	5303.00	5322.00			
		Take	litres		19.00	20.00	19.00	18.00	19.00			
13.5	0.93	Average Take	l/m		19.00	20.00	19.00	18.00	19.00		19.00	18.345
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	5332.00	5359.00	5385.00	5410.00	5435.00	5459.00			
		Take	litres		27.00	26.00	25.00	25.00	24.00			
27	1.86	Average Take	l/m		27.00	26.00	25.00	25.00	24.00		25.40	12.797
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	5485.00	5520.00	5560.00	5596.00	5626.00	5660.00			
		Take	litres		35.00	40.00	36.00	30.00	34.00			
45	3.10	Average Take	l/m		35.00	40.00	36.00	30.00	34.00		35.00	10.768
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	5678.00	5699.00	5723.00	5745.00	5768.00	5791.00			
		Take	litres		21.00	24.00	22.00	23.00	23.00			
27	1.86	Average Take	l/m		21.00	24.00	22.00	23.00	23.00		22.60	11.386
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	5798.00	5813.00	5828.00	5844.00	5860.00	5876.00			
		Take	litres		15.00	15.00	16.00	16.00	16.00			
13.5	0.93	Average Take	l/m		15.00	15.00	16.00	16.00	16.00		15.60	15.062





	LUGEONS		APPROXIMATE PERMEABILITY, cm/s	
STATIC WTR LEVEL DETERMINATION:	MAX Lu=	18.345	MAX k=	1.83E-04
	MIN Lu=	10.768	MIN k=	1.08E-04
INTERPRETATION REFERENCE:			cm/s	
	AVG Lu=	13.671	AVG k=	1.4E-04

INTERPRETATION TYPE OF FLOW:	
LAMINAR	YES
TURBULENT	NO
DILATION	NO
WASH-OUT	NO
VOID FILLING	NO

Note: Permeability calculation dependent upon flow classification:

DRILLING / TEST RESULTS COMMENTS:

TEST BY:	Josh Vines	REVIEWED BY:	Greg Johnston

SHEET 1 OF 1

LUGEON TEST FIELD DATA SHEET

Knight Piésold CONSULTING

PROJECT:	Morrison Copper Gold	PROJECT NO:	101-102/7	DRILLHOLE:	DH06-1
AREA:	Upstream from Millsite and Service Buildings			TEST NO:	2
DIPS:	60 ° (FROM HORIZONTAL)	DEPTH GROUNDWATER:	m	TOP OF TEST INTERVAL:	59.4 m (DOWN HOLE)
DATE:	03-29-06	GAUGE HEIGHT ABOVE GROUND:	1.0 m	BOTTOM OF TEST INTERVAL:	89.9 m (DOWN HOLE)

GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	6008.00	6014.00	6019.00	6025.00	6030.00	6035.00			
		Take	litres		6.00	5.00	6.00	5.00	5.00			
25	1.72	Average Take	l/m		6.00	5.00	6.00	5.00	5.00		5.40	2.928

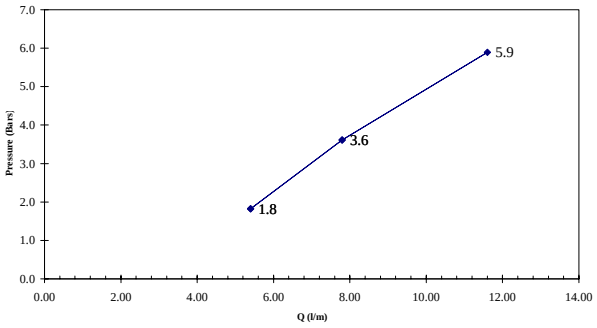
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	6040.00	6048.00	6056.00	6064.00	6072.00	6079.00			
		Take	litres		8.00	8.00	8.00	8.00	7.00			
51	3.52	Average Take	l/m		8.00	8.00	8.00	8.00	7.00		7.80	2.124

GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	6085.00	6097.00	6109.00	6120.00	6132.00	6143.00			
		Take	litres		12.00	12.00	11.00	12.00	11.00			
84	5.79	Average Take	l/m		12.00	12.00	11.00	12.00	11.00		11.60	1.936

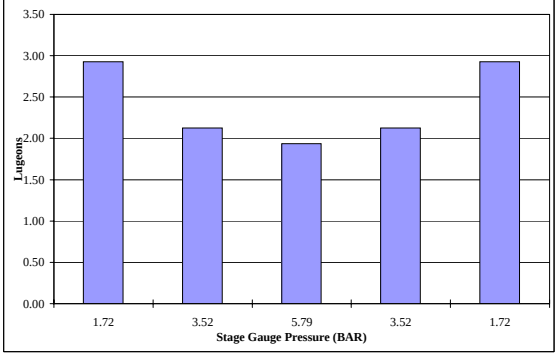
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	6147.00	6154.00	6162.00	6170.00	6178.00	6186.00			
		Take	litres		7.00	8.00	8.00	8.00	8.00			
51	3.52	Average Take	l/m		7.00	8.00	8.00	8.00	8.00		7.80	2.124

GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	6190.00	6195.00	6201.00	6206.00	6212.00	6217.00			
		Take	litres		5.00	6.00	5.00	6.00	5.00			
25	1.72	Average Take	l/m		5.00	6.00	5.00	6.00	5.00		5.40	2.928

FLOW VERSUS PRESSURE PLOT



STAGE PRESSURE VERSUS LUGEON VALUE



		LUGEONS		APPROXIMATE PERMEABILITY, cm/s	
STATIC WTR LEVEL DETERMINATION:		MAX Lu=	2.928	MAX k=	2.93E-05
		MIN Lu=	1.936	MIN k=	1.94E-05
INTERPRETATION REFERENCE:		AVG Lu=	2.408	cm/s AVG k=	2.4E-05

INTERPRETATION TYPE OF FLOW:	
LAMINAR	YES
TURBULENT	NO
DILATION	NO
WASH-OUT	NO
VOID FILLING	NO

Note: Permeability calculation dependent upon flow classification:

DRILLING / TEST RESULTS COMMENTS:

TEST BY:	Josh Vines	REVIEWED BY:	Greg Johnston

SHEET 1 OF 1

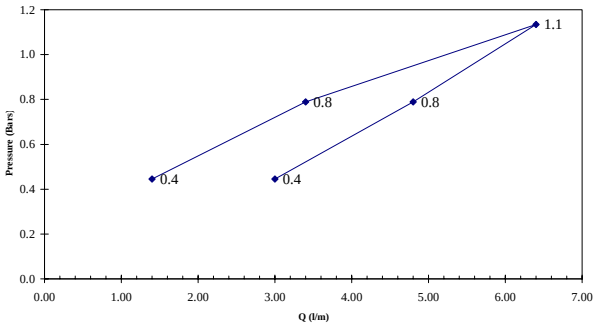
LUGEON TEST FIELD DATA SHEET

Knight Piésold CONSULTING

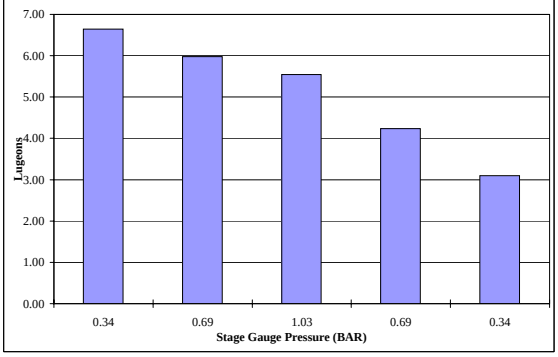
PROJECT:	Morrison Copper Gold	**PROJECT NO:**	101-102/7	**DRILLHOLE:**	**DH06-2**
AREA:	South Embankment			**TEST NO:**	1
DIPS:	90 ° (FROM HORIZONTAL)	**DEPTH GROUNDWATER:**	0.0 m	**TOP OF TEST INTERVAL:**	9.1 m (DOWN HOLE)
DATE:	03-06-06	**GAUGE HEIGHT ABOVE GROUND:**	1.0 m	**BOTTOM OF TEST INTERVAL:**	39.5 m (DOWN HOLE)

GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min	0	1	2	3	4	5			
		Flowmeter	USGAL									
		Flowmeter	litres	2672	2675	2678	2681	2684	2687			
		Take	litres		3	3	3	3	3			
5	0.34	Average Take	l/m		3	3	3	3	3		3	6.6
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	2694	2700	2704	2709	2714	2718			
		Take	litres		6	4	5	5	4			
10	0.69	Average Take	l/m		6	4	5	5	4		5	6.0
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	2725	2732	2738	2744	2751	2757			
		Take	litres		7	6	6	7	6			
15	1.03	Average Take	l/m		7	6	6	7	6		6	5.5
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	2758	2761	2765	2768	2771	2775			
		Take	litres		3	4	3	3	4			
10	0.69	Average Take	l/m		3	4	3	3	4		3	4.2
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	2776	2777	2779	2780	2782	2783			
		Take	litres		1	2	1	2	1			
5	0.34	Average Take	l/m		1	2	1	2	1		1	3.1

FLOW VERSUS PRESSURE PLOT



STAGE PRESSURE VERSUS LUGEON VALUE



		LUGEONS		APPROXIMATE PERMEABILITY, cm/s	
STATIC WTR LEVEL DETERMINATION:		MAX Lu=	6.644	MAX k=	6.64E-05
		MIN Lu=	3.101	MIN k=	3.10E-05
INTERPRETATION REFERENCE:		AVG Lu=	5.100	cm/s AVG k=	5.1E-05

INTERPRETATION TYPE OF FLOW:

LAMINAR	YES
TURBULENT	NO
DILATION	NO
WASH-OUT	NO
VOID FILLING	NO

Note: Permeability calculation dependent upon flow classification:

DRILLING / TEST RESULTS COMMENTS:

TEST BY: Josh Vines **REVIEWED BY:** Greg Johnston

SHEET 1 OF 1

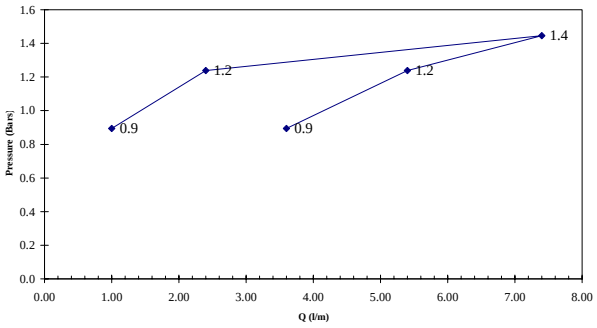
LUGEON TEST FIELD DATA SHEET

Knight Piésold CONSULTING

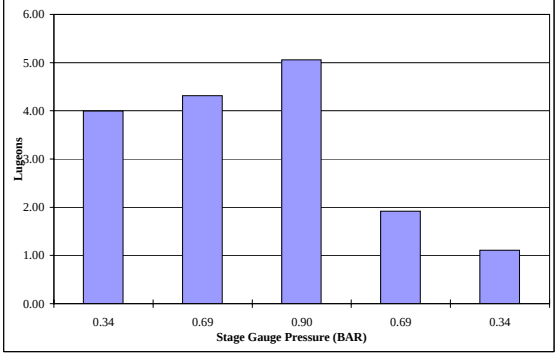
PROJECT:	Morrison Copper Gold	**PROJECT NO:**	101-102/7	**DRILLHOLE:**	**DH06-3**
AREA:	South Embankment			**TEST NO:**	1
DIPS:	90 ° (FROM HORIZONTAL)	**DEPTH GROUNDWATER:**	4.5 m	**TOP OF TEST INTERVAL:**	6.7 m (DOWN HOLE)
DATE:	03-02-06	**GAUGE HEIGHT ABOVE GROUND:**	1.0 m	**BOTTOM OF TEST INTERVAL:**	36.9 m (DOWN HOLE)

GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min	0	1	2	3	4	5			
		Flowmeter	USGAL									
		Flowmeter	litres	2547	2552	2555	2559	2562	2565			
		Take	litres		5	3	4	3	3			
5	0.34	Average Take	l/m		5	3	4	3	3		4	4.0
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	2573	2581	2586	2591	2595	2600			
		Take	litres		8	5	5	4	5			
10	0.69	Average Take	l/m		8	5	5	4	5		5	4.3
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	2611	2619	2627	2635	2641	2648			
		Take	litres		8	8	8	6	7			
13	0.90	Average Take	l/m		8	8	8	6	7		7	5.1
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	2648	2650	2652	2655	2659	2660			
		Take	litres		2	2	3	4	1			
10	0.69	Average Take	l/m		2	2	3	4	1		2	1.9
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	2652	2653	2654	2656	2656	2657			
		Take	litres		1	1	2	0	1			
5	0.34	Average Take	l/m		1	1	2	0	1		1	1.1

FLOW VERSUS PRESSURE PLOT



STAGE PRESSURE VERSUS LUGEON VALUE



		LUGEONS		APPROXIMATE PERMEABILITY, cm/s	
STATIC WTR LEVEL DETERMINATION:		MAX Lu=	5.056	MAX k=	5.06E-05
		MIN Lu=	1.110	MIN k=	1.11E-05
INTERPRETATION REFERENCE:		AVG Lu=	3.278	cm/s AVG k=	3.3E-05

INTERPRETATION TYPE OF FLOW:

LAMINAR	YES
TURBULENT	NO
DILATION	NO
WASH-OUT	NO
VOID FILLING	NO

Note: Permeability calculation dependent upon flow classification:

DRILLING / TEST RESULTS COMMENTS:

TEST BY: Josh Vines **REVIEWED BY:** Greg Johnston

SHEET 1 OF 1

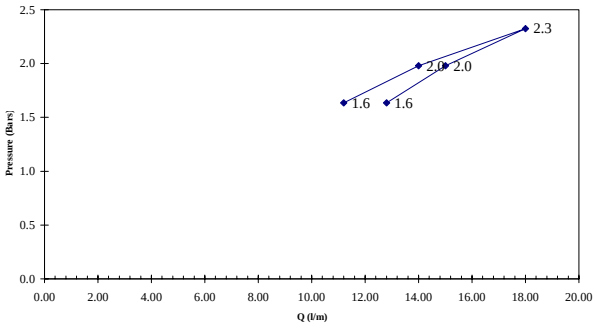
LUGEON TEST FIELD DATA SHEET

Knight Piésold CONSULTING

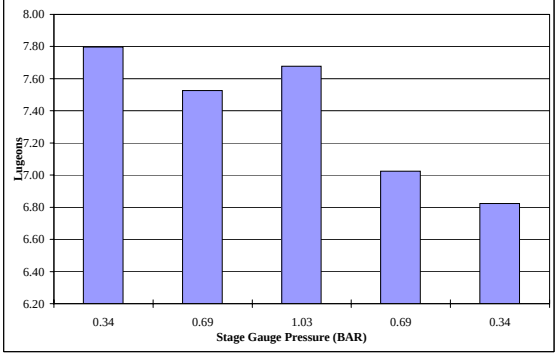
PROJECT:	Morrison Copper Gold	**PROJECT NO:**	101-102/7	**DRILLHOLE:**	**DH06-4**
AREA:	South Embankment			**TEST NO:**	1
DIPS:	90 ° (FROM HORIZONTAL)	**DEPTH GROUNDWATER:**	11.9 m	**TOP OF TEST INTERVAL:**	11.0 m (DOWN HOLE)
DATE:	03-09-06	**GAUGE HEIGHT ABOVE GROUND:**	1.0 m	**BOTTOM OF TEST INTERVAL:**	41.5 m (DOWN HOLE)

GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min	0	1	2	3	4	5			
		Flowmeter	USGAL									
		Flowmeter	litres	2914	2927	2940	2953	2965	2978			
		Take	litres		13	13	13	12	13			
5	0.34	Average Take	l/m		13	13	13	12	13		13	7.8
GAUGE P (psi)	GAUGE P (BAR)										AVERAGE FLOW litres/min	LUGEON
		Time	min	0	1	2	3	4	5			
		Flowmeter	USGAL									
		Flowmeter	litres	2988	3003	3018	3033	3048	3063			
		Take	litres		15	15	15	15	15			
10	0.69	Average Take	l/m		15	15	15	15	15		15	7.5
GAUGE P (psi)	GAUGE P (BAR)										AVERAGE FLOW litres/min	LUGEON
		Time	min	0	1	2	3	4	5			
		Flowmeter	USGAL									
		Flowmeter	litres	3077	3095	3114	3131	3149	3167			
		Take	litres		18	19	17	18	18			
15	1.03	Average Take	l/m		18	19	17	18	18		18	7.7
GAUGE P (psi)	GAUGE P (BAR)										AVERAGE FLOW litres/min	LUGEON
		Time	min	0	1	2	3	4	5			
		Flowmeter	USGAL									
		Flowmeter	litres	3176	3190	3205	3218	3232	3246			
		Take	litres		14	15	13	14	14			
10	0.69	Average Take	l/m		14	15	13	14	14		14	7.0
GAUGE P (psi)	GAUGE P (BAR)										AVERAGE FLOW litres/min	LUGEON
		Time	min	0	1	2	3	4	5			
		Flowmeter	USGAL									
		Flowmeter	litres	3254	3265	3277	3288	3300	3310			
		Take	litres		11	12	11	12	10			
5	0.34	Average Take	l/m		11	12	11	12	10		11	6.8

FLOW VERSUS PRESSURE PLOT



STAGE PRESSURE VERSUS LUGEON VALUE



		LUGEONS		APPROXIMATE PERMEABILITY, cm/s	
STATIC WTR LEVEL DETERMINATION:		MAX Lu=	7.798	MAX k=	7.80E-05
		MIN Lu=	6.823	MIN k=	6.82E-05
INTERPRETATION REFERENCE:		AVG Lu=	7.370	cm/s AVG k=	7.4E-05

INTERPRETATION TYPE OF FLOW:

LAMINAR	YES
TURBULENT	NO
DILATION	NO
WASH-OUT	NO
VOID FILLING	NO

Note: Permeability calculation dependent upon flow classification:

DRILLING / TEST RESULTS COMMENTS:

TEST BY: Josh Vines **REVIEWED BY:** Greg Johnston

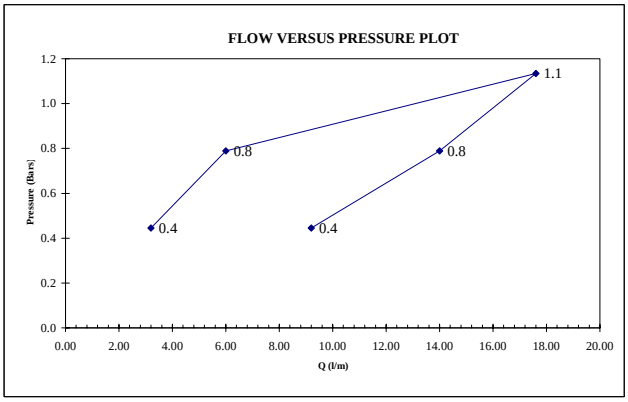
SHEET 1 OF 1

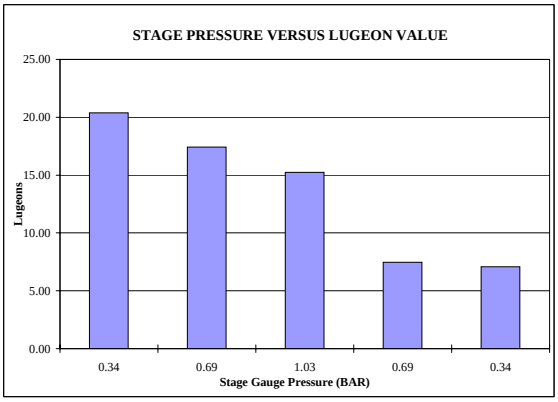
LUGEON TEST FIELD DATA SHEET

Knight Piésold CONSULTING

PROJECT:	Morrison Copper Gold	PROJECT NO:	101-102/7	DRILLHOLE:	DH06-6
AREA:	South Embankment			TEST NO:	1
DIPS:	90 ° (FROM HORIZONTAL)	DEPTH GROUNDWATER:	0.0 m	TOP OF TEST INTERVAL:	9.6 m (DOWN HOLE)
DATE:	03-11-06	GAUGE HEIGHT ABOVE GROUND:	1.0 m	BOTTOM OF TEST INTERVAL:	36.7 m (DOWN HOLE)

GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	3471	3480	3491	3501	3510	3517			
		Take	litres		9	11	10	9	7			
5	0.34	Average Take	l/m		9	11	10	9	7		9	20.4
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	3533	3550	3565	3578	3591	3603			
		Take	litres		17	15	13	13	12			
10	0.69	Average Take	l/m		17	15	13	13	12		14	17.4
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	3621	3642	3661	3679	3694	3709			
		Take	litres		21	19	18	15	15			
15	1.03	Average Take	l/m		21	19	18	15	15		18	15.2
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	3712	3717	3723	3729	3735	3742			
		Take	litres		5	6	6	6	7			
10	0.69	Average Take	l/m		5	6	6	6	7		6	7.5
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	3742	3745	3748	3752	3755	3758			
		Take	litres		3	3	4	3	3			
5	0.34	Average Take	l/m		3	3	4	3	3		3	7.1





		LUGEONS		APPROXIMATE PERMEABILITY, cm/s	
STATIC WTR LEVEL DETERMINATION:		MAX Lu=	20.375	MAX k=	2.04E-04
		MIN Lu=	7.087	MIN k=	7.09E-05
INTERPRETATION REFERENCE:		AVG Lu=	13.522	cm/s AVG k=	1.4E-04

INTERPRETATION TYPE OF FLOW:	
LAMINAR	YES
TURBULENT	NO
DILATION	NO
WASH-OUT	NO
VOID FILLING	NO

Note: Permeability calculation dependent upon flow classification:

DRILLING / TEST RESULTS COMMENTS:

TEST BY:	Josh Vines	REVIEWED BY:	Greg Johnston

SHEET 1 OF 1

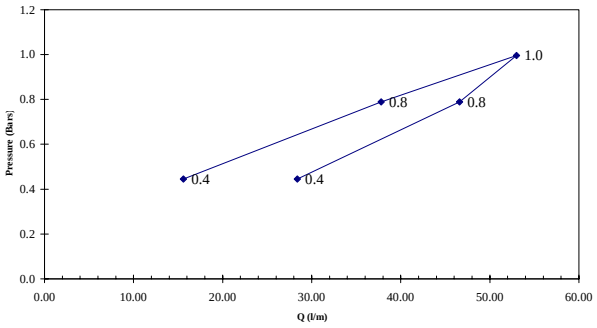
LUGEON TEST FIELD DATA SHEET

Knight Piésold CONSULTING

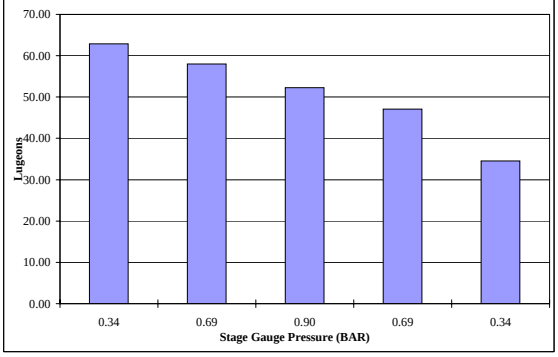
PROJECT:	Morrison Copper Gold	**PROJECT NO:**	101-102/7	**DRILLHOLE:**	**DH06-7**
AREA:	South Embankment			**TEST NO:**	1
DIPS:	90 ° (FROM HORIZONTAL)	**DEPTH GROUNDWATER:**	0.0 m	**TOP OF TEST INTERVAL:**	12.8 m (DOWN HOLE)
DATE:	03-02-06	**GAUGE HEIGHT ABOVE GROUND:**	1.0 m	**BOTTOM OF TEST INTERVAL:**	43.3 m (DOWN HOLE)

GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	1426	1457	1488	1516	1542	1568			
		Take	litres		31	31	28	26	26			
5	0.34	Average Take	l/m		31	31	28	26	26		28	62.9
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	1672	1720	1767	1814	1860	1905			
		Take	litres		48	47	47	46	45			
10	0.69	Average Take	l/m		48	47	47	46	45		47	58.0
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	1945	2000	2054	2107	2158	2210			
		Take	litres		55	54	53	51	52			
13	0.90	Average Take	l/m		55	54	53	51	52		53	52.3
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	2231	2269	2307	2345	2382	2420			
		Take	litres		38	38	38	37	38			
10	0.69	Average Take	l/m		38	38	38	37	38		38	47.1
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	2444	2457	2473	2489	2505	2522			
		Take	litres		13	16	16	16	17			
5	0.34	Average Take	l/m		13	16	16	16	17		16	34.5

FLOW VERSUS PRESSURE PLOT



STAGE PRESSURE VERSUS LUGEON VALUE



		LUGEONS		APPROXIMATE PERMEABILITY, cm/s	
STATIC WTR LEVEL DETERMINATION:		MAX Lu=	62.897	MAX k=	6.29E-04
		MIN Lu=	34.549	MIN k=	3.45E-04
INTERPRETATION REFERENCE:		AVG Lu=	50.963	cm/s AVG k=	5.1E-04

INTERPRETATION TYPE OF FLOW:

LAMINAR	YES
TURBULENT	NO
DILATION	NO
WASH-OUT	NO
VOID FILLING	NO

Note: Permeability calculation dependent upon flow classification:

DRILLING / TEST RESULTS COMMENTS:

TEST BY: Josh Vines **REVIEWED BY:** Greg Johnston

SHEET 1 OF 1

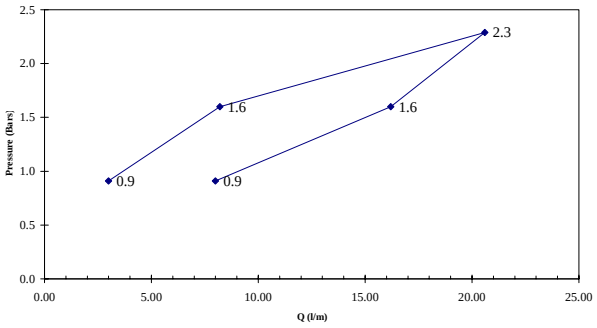
LUGEON TEST FIELD DATA SHEET

Knight Piésold CONSULTING

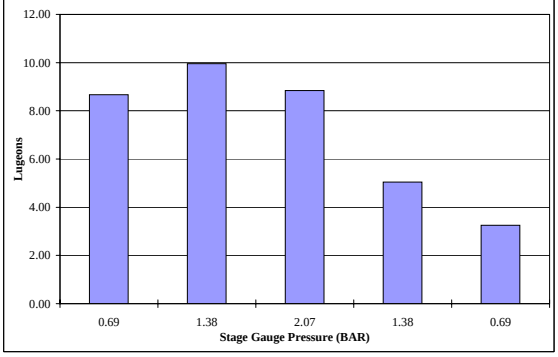
PROJECT:	Morrison Copper Gold	**PROJECT NO:**	101-102/7	**DRILLHOLE:**	**DH06-11**
AREA:	South Embankment			**TEST NO:**	1
DIPS:	90 ° (FROM HORIZONTAL)	**DEPTH GROUNDWATER:**	1.2 m	**TOP OF TEST INTERVAL:**	8.8 m (DOWN HOLE)
DATE:	02-22-06	**GAUGE HEIGHT ABOVE GROUND:**	1.0 m	**BOTTOM OF TEST INTERVAL:**	36.9 m (DOWN HOLE)

GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min	0	1	2	3	4	5			
		Flowmeter	USGAL									
		Flowmeter	litres	10	19	28	35	43	50			
		Take	litres		9	9	7	8	7			
10	0.69	Average Take	l/m		9	9	7	8	7		8	8.7
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	60	79	96	114	130	141			
		Take	litres		19	17	18	16	11			
20	1.38	Average Take	l/m		19	17	18	16	11		16	10.0
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	175	194	220	241	259	278			
		Take	litres		19	26	21	18	19			
30	2.07	Average Take	l/m		19	26	21	18	19		21	8.8
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	280	286	292	300	310	321			
		Take	litres		6	6	8	10	11			
20	1.38	Average Take	l/m		6	6	8	10	11		8	5.0
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	321	323	325	330	333	336			
		Take	litres		2	2	5	3	3			
10	0.69	Average Take	l/m		2	2	5	3	3		3	3.3

FLOW VERSUS PRESSURE PLOT



STAGE PRESSURE VERSUS LUGEON VALUE



		LUGEONS		APPROXIMATE PERMEABILITY, cm/s	
STATIC WTR LEVEL DETERMINATION:		MAX Lu=	9.962	MAX k=	9.96E-05
		MIN Lu=	3.250	MIN k=	3.25E-05
INTERPRETATION				cm/s	
REFERENCE:		AVG Lu=	7.153	AVG k=	7.2E-05

INTERPRETATION TYPE OF FLOW:

LAMINAR	YES
TURBULENT	NO
DILATION	NO
WASH-OUT	NO
VOID FILLING	NO

Note: Permeability calculation dependent upon flow classification:

DRILLING / TEST RESULTS COMMENTS:

TEST BY: Josh Vines **REVIEWED BY:** Greg Johnston

SHEET 1 OF 1

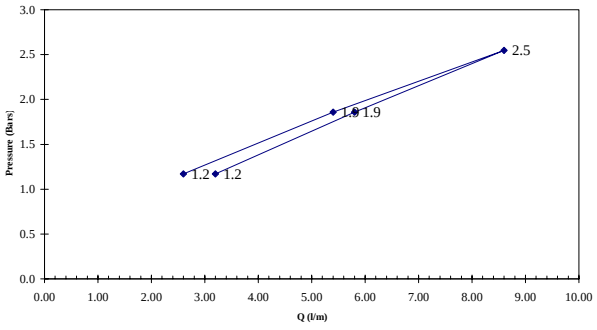
LUGEON TEST FIELD DATA SHEET

Knight Piésold CONSULTING

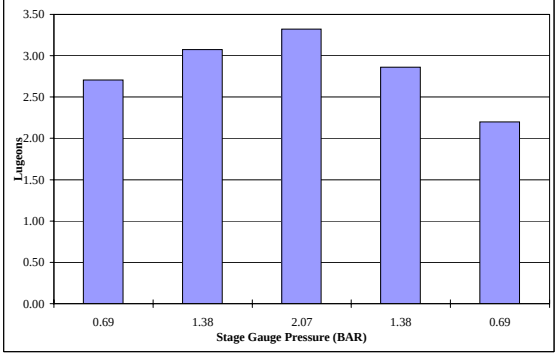
PROJECT:	Morrison Copper Gold	**PROJECT NO:**	101-102/7	**DRILLHOLE:**	**DH06-12**
AREA:	South Embankment			**TEST NO:**	1
DIPS:	90 ° (FROM HORIZONTAL)	**DEPTH GROUNDWATER:**	3.8 m	**TOP OF TEST INTERVAL:**	13.1 m (DOWN HOLE)
DATE:	02-26-06	**GAUGE HEIGHT ABOVE GROUND:**	1.0 m	**BOTTOM OF TEST INTERVAL:**	58.3 m (DOWN HOLE)

GAUGE P (psi)	GAUGE P (BAR)											AVERAGE FLOW litres/min	LUGEON
		Time	min	0	1	2	3	4	5				
		Flowmeter	USGAL										
		Flowmeter	litres	1058	1061	1064	1067	1070	1074				
		Take	litres		3	3	3	3	4				
10	0.69	Average Take	l/m		3	3	3	3	4			3	2.7
GAUGE P (psi)	GAUGE P (BAR)											AVERAGE FLOW litres/min	LUGEON
		Time	min	0	1	2	3	4	5				
		Flowmeter	USGAL										
		Flowmeter	litres	1080	1086	1092	1098	1104	1109				
		Take	litres		6	6	6	6	5				
20	1.38	Average Take	l/m		6	6	6	6	5			6	3.1
GAUGE P (psi)	GAUGE P (BAR)											AVERAGE FLOW litres/min	LUGEON
		Time	min	0	1	2	3	4	5				
		Flowmeter	USGAL										
		Flowmeter	litres	1123	1132	1141	1150	1158	1166				
		Take	litres		9	9	9	8	8				
30	2.07	Average Take	l/m		9	9	9	8	8			9	3.3
GAUGE P (psi)	GAUGE P (BAR)											AVERAGE FLOW litres/min	LUGEON
		Time	min	0	1	2	3	4	5				
		Flowmeter	USGAL										
		Flowmeter	litres	1180	1185	1191	1197	1202	1207				
		Take	litres		5	6	6	5	5				
20	1.38	Average Take	l/m		5	6	6	5	5			5	2.9
GAUGE P (psi)	GAUGE P (BAR)											AVERAGE FLOW litres/min	LUGEON
		Time	min	0	1	2	3	4	5				
		Flowmeter	USGAL										
		Flowmeter	litres	1210	1213	1215	1217	1220	1223				
		Take	litres		3	2	2	3	3				
10	0.69	Average Take	l/m		3	2	2	3	3			3	2.2

FLOW VERSUS PRESSURE PLOT



STAGE PRESSURE VERSUS LUGEON VALUE



		LUGEONS		APPROXIMATE PERMEABILITY, cm/s	
STATIC WTR LEVEL DETERMINATION:		MAX Lu=	3.322	MAX k=	3.32E-05
		MIN Lu=	2.198	MIN k=	2.20E-05
INTERPRETATION REFERENCE:		AVG Lu=	2.832	cm/s AVG k=	2.8E-05

INTERPRETATION TYPE OF FLOW:

LAMINAR	YES
TURBULENT	NO
DILATION	NO
WASH-OUT	NO
VOID FILLING	NO

Note: Permeability calculation dependent upon flow classification:

DRILLING / TEST RESULTS COMMENTS:

TEST BY: Josh Vines **REVIEWED BY:** Greg Johnston

SHEET 1 OF 1

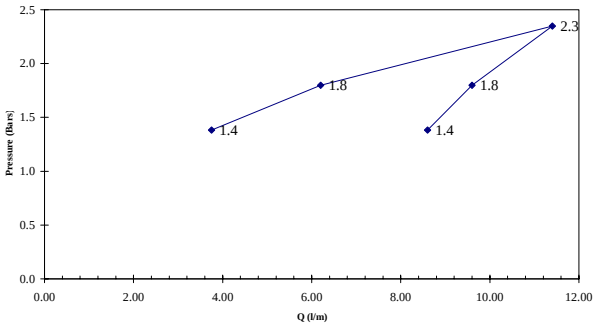
LUGEON TEST FIELD DATA SHEET

Knight Piésold CONSULTING

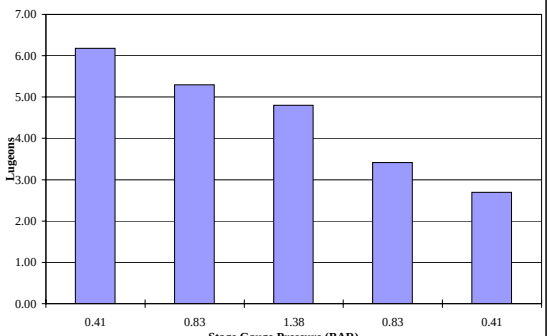
PROJECT:	Morrison Copper Gold	**PROJECT NO:**	101-102/7	**DRILLHOLE:**	**DH06-13**
AREA:	Middle of Open Pit			**TEST NO:**	
DIPS:	90 ° (FROM HORIZONTAL)	**DEPTH GROUNDWATER:**	8.7 m	**TOP OF TEST INTERVAL:**	11.9 m (DOWN HOLE)
DATE:	03-24-06	**GAUGE HEIGHT ABOVE GROUND:**	1.0 m	**BOTTOM OF TEST INTERVAL:**	20.3 m (DOWN HOLE)

GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min	0	1	2	3	4	5			
		Flowmeter	USGAL									
		Flowmeter	litres	4225.00	4235.00	4244.00	4253.00	4261.00	4268.00			
		Take	litres		10.00	9.00	9.00	8.00	7.00			
6	0.41	Average Take	l/m		10.00	9.00	9.00	8.00	7.00		8.60	6.179
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	4276.00	4287.00	4298.00	4307.00	4316.00	4324.00			
		Take	litres		11.00	11.00	9.00	9.00	8.00			
12	0.83	Average Take	l/m		11.00	11.00	9.00	9.00	8.00		9.60	5.293
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	4338.00	4349.00	4362.00	4375.00	4385.00	4395.00			
		Take	litres		11.00	13.00	13.00	10.00	10.00			
20	1.38	Average Take	l/m		11.00	13.00	13.00	10.00	10.00		11.40	4.798
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	4400.00	4407.00	4413.00	4419.00	4424.00	4431.00			
		Take	litres		7.00	6.00	6.00	5.00	7.00			
12	0.83	Average Take	l/m		7.00	6.00	6.00	5.00	7.00		6.20	3.418
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	4433.00	4436.00	4440.00	4444.00	4448.00				
		Take	litres		3.00	4.00	4.00	4.00				
6	0.41	Average Take	l/m		3.00	4.00	4.00	4.00			3.75	2.694

FLOW VERSUS PRESSURE PLOT



STAGE PRESSURE VERSUS LUGEON VALUE



		LUGEONS		APPROXIMATE PERMEABILITY, cm/s	
STATIC WTR LEVEL DETERMINATION:		MAX Lu=	6.179	MAX k=	6.18E-05
		MIN Lu=	2.694	MIN k=	2.69E-05
INTERPRETATION REFERENCE:		AVG Lu=	4.477	cm/s AVG k=	4.5E-05

INTERPRETATION TYPE OF FLOW:	
LAMINAR	YES
TURBULENT	NO
DILATION	NO
WASH-OUT	NO
VOID FILLING	NO

Note: Permeability calculation dependent upon flow classification:

DRILLING / TEST RESULTS COMMENTS:

TEST BY:	Josh Vines	**REVIEWED BY:**	Greg Johnston

SHEET 1 OF 1

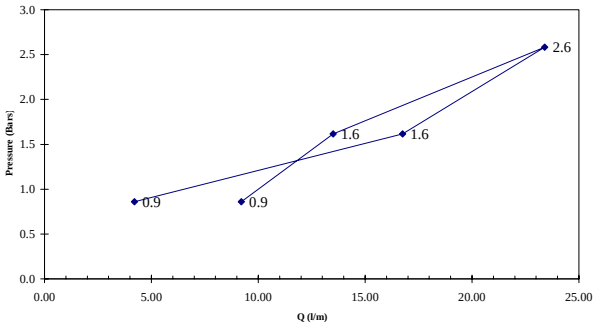
LUGEON TEST FIELD DATA SHEET

Knight Piésold CONSULTING

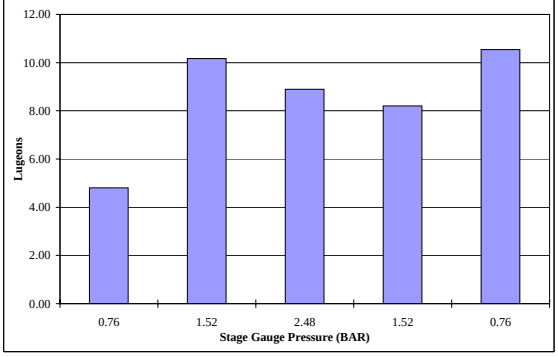
PROJECT:	Morrison Copper Gold	**PROJECT NO:**	101-102/7	**DRILLHOLE:**	**DH06-14**
AREA:	Upstream from Millsite and Service Buildings			**TEST NO:**	1
DIPS:	90 ° (FROM HORIZONTAL)	**DEPTH GROUNDWATER:**	m	**TOP OF TEST INTERVAL:**	21.9 m (DOWN HOLE)
DATE:	03-23-06	**GAUGE HEIGHT ABOVE GROUND:**	1.0 m	**BOTTOM OF TEST INTERVAL:**	29.3 m (DOWN HOLE)

GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min	0	1	2	3	4	5			
		Flowmeter	USGAL									
		Flowmeter	litres	3788.00	3792.00	3796.00	3800.00	3804.00	3809.00			
		Take	litres		4.00	4.00	4.00	4.00	5.00			
11	0.76	Average Take	l/m		4.00	4.00	4.00	4.00	5.00		4.20	4.809
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	3817.00	3834.00	3852.00	3868.00	3884.00				
		Take	litres		17.00	18.00	16.00	16.00				
22	1.52	Average Take	l/m		17.00	18.00	16.00	16.00			16.75	10.172
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	3907.00	3935.00	3960.00	3982.00	4003.00	4024.00			
		Take	litres		28.00	25.00	22.00	21.00	21.00			
36	2.48	Average Take	l/m		28.00	25.00	22.00	21.00	21.00		23.40	8.894
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	4036.00	4048.00	4062.00	4076.00	4090.00				
		Take	litres		12.00	14.00	14.00	14.00				
22	1.52	Average Take	l/m		12.00	14.00	14.00	14.00			13.50	8.198
GAUGE P (psi)	GAUGE P (BAR)			0	1	2	3	4	5		AVERAGE FLOW litres/min	LUGEON
		Time	min									
		Flowmeter	USGAL									
		Flowmeter	litres	4096.00	4104.00	4113.00	4123.00	4132.00	4142.00			
		Take	litres		8.00	9.00	10.00	9.00	10.00			
11	0.76	Average Take	l/m		8.00	9.00	10.00	9.00	10.00		9.20	10.534

FLOW VERSUS PRESSURE PLOT



STAGE PRESSURE VERSUS LUGEON VALUE



		LUGEONS		APPROXIMATE PERMEABILITY, cm/s	
STATIC WTR LEVEL DETERMINATION:		MAX Lu=	10.534	MAX k=	1.05E-04
		MIN Lu=	4.809	MIN k=	4.81E-05
INTERPRETATION REFERENCE:		AVG Lu=	8.521	cm/s AVG k=	8.5E-05

INTERPRETATION TYPE OF FLOW:

LAMINAR	YES
TURBULENT	NO
DILATION	NO
WASH-OUT	NO
VOID FILLING	NO

Note: Permeability calculation dependent upon flow classification:

DRILLING / TEST RESULTS COMMENTS:

TEST BY: Josh Vines **REVIEWED BY:** Greg Johnston

APPENDIX B2
(Rev 0)

WELL COMPLETION DETAILS

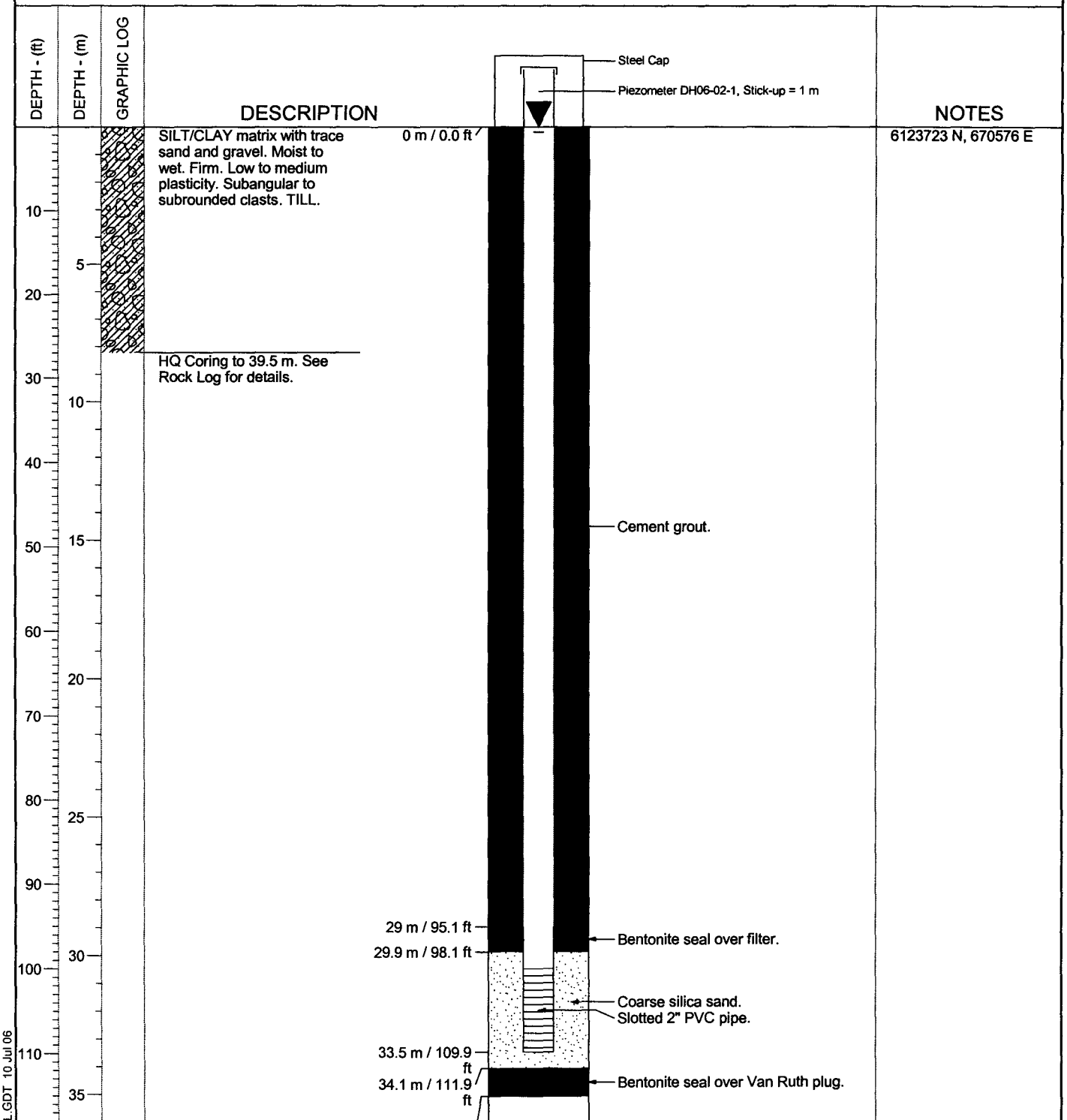
- Drillhole DH06-02
- Drillhole DH06-03
- Drillhole DH06-04
- Drillhole DH06-06
- Drillhole DH06-07
- Drillhole DH06-08
- Drillhole DH06-09
- Drillhole DH06-10
- Drillhole DH06-11
- Drillhole DH06-12
- Drillhole DH06-13
- Drillhole DH06-14
- Drillhole DH06-15a
- Drillhole DH06-15b
- Drillhole DH06-16
- Drillhole DH06-17
- Drillhole GW1

(Pages B2-1 to B2-18)

Project:	**Morrison Copper Gold Project**		Drill Hole No.:	**DH06-02**	Page **1** of **1**
Hole Depth:	**39.5 m / 129.6 ft**	Hole Diameter:	**96 mm**	Date Started:	**4 Mar 06**	Date Completed:	**6 Mar 06**
Collar Elev:	**950 m / 3116.8 ft**	PVC Pipe I.D.:	**50 mm**	Logged by:	**LS**	Reviewed by:	**GJ**

Water Level Readings: Depth to Water / Date Measured

Well 1: 0 / 6 Mar 06



Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Well Completion Details For DH06-02

Project No.	Ref. No.	Rev.
101-102/7	1	0

DH06-02

Rev. 0 - Issued for Report

WELL DRILL.GPJ DRILL.GDT 10 Jul 06

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Date Revised: 2 May 06

Project: Morrison Copper Gold Project | Drill Hole No.: DH06-03 | Page 1 of 1

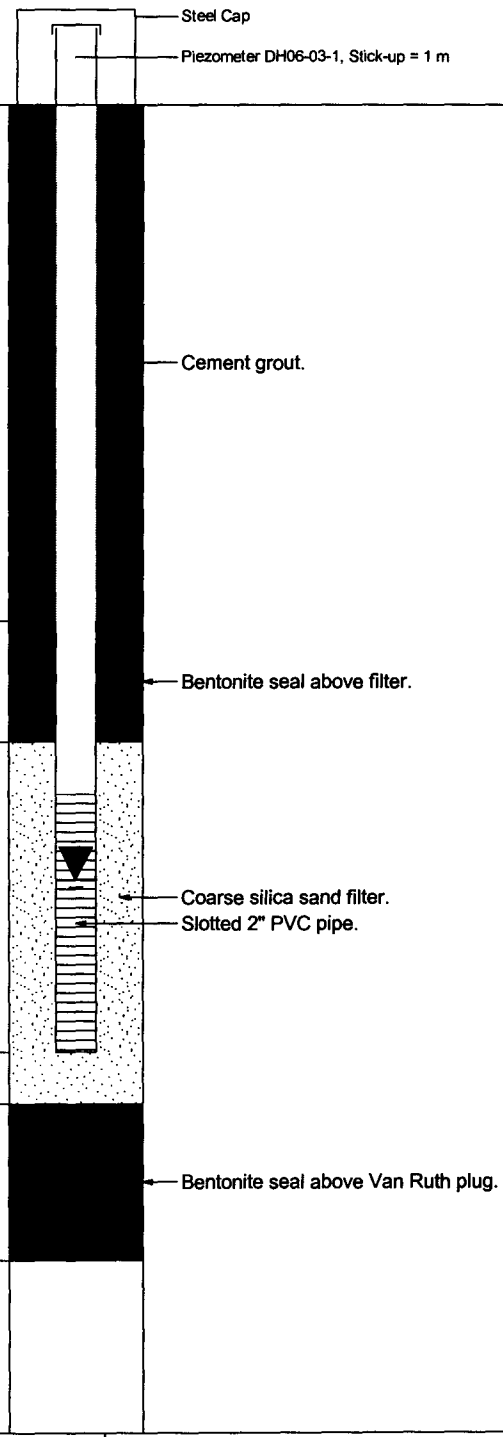
Hole Depth: 36.9 m / 121.1 ft | Hole Diameter: 96 mm | Date Started: 2 Mar 06 | Date Completed: 4 Mar 06

Collar Elev: 950 m / 3116.8 ft | PVC Pipe I.D.: 50 mm | Logged by: LS | Reviewed by: GJ

Water Level Readings: Depth to Water / Date Measured

Well 1: 4.5 / 4 Mar 06

DEPTH - (ft)	DEPTH - (m)	GRAPHIC LOG	DESCRIPTION	NOTES
			SILT/CLAY matrix with some gravel and trace sand. Well graded. Soft. Moist. Medium to high plasticity. Subangular clasts up to fine gravel size. Light brown. TILL.	6123781 N, 670541 E
			SILT/CLAY matrix with some gravel. Moist. Medium plasticity. Stiff. Frequent cobbles and boulders. Subangular gravel clasts. Light brown. TILL.	
			HQ Coring to 37 m. See Rock Log for details.	



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Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Well Completion Details For DH06-03

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
101-102/7	1	0

DH06-03

Rev. 0 - Issued for Report

WELL DRILL.GPJ DRILL.GDT 10 Jul 06

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Date Revised: 2 May 06

B2-2

Project: Morrison Copper Gold Project | Drill Hole No.: DH06-04 | Page 1 of 1

Hole Depth: 41.5 m / 136.2 ft | Hole Diameter: 96 mm | Date Started: 7 Mar 06 | Date Completed: 9 Mar 06

Collar Elev: 983 m / 3225.1 ft | PVC Pipe I.D.: 50 mm | Logged by: LS | Reviewed by: GJ

Water Level Readings: Depth to Water / Date Measured

Well 1: 12.2 / 9 Mar 06

DEPTH - (ft)	DEPTH - (m)	GRAPHIC LOG	DESCRIPTION	NOTES
0	0		0 m / 0.0 ft	6123060 N, 670997 E
10			Gravelly SILT/CLAY matrix with some sand. Moist. Firm. Frequent subangular to subrounded clasts to fine gravel size. Well graded. Low to medium plasticity. TILL.	
	5		SILT/CLAY matrix with some gravel and trace sand. Low to medium plasticity. Moist. Stiff. Subangular to subrounded clasts up to cobble size. Well graded. Light brown. TILL.	
20				
30			HQ Coring to 41.5 m. See Rock Log for details.	
	10			
40				
50	15			
60				
	20			
70				
			22.7 m / 74.5 ft	
			23.8 m / 78.1 ft	
80	25			
			27.4 m / 89.9 ft	
90			28.3 m / 92.8 ft	
			29.1 m / 95.5 ft	

Steel Cap

Piezometer DH06-04-1, Stick-up = 1 m

Cement grout.

Bentonite seal over filter.

Coarse silica sand filter.

Slotted 2" PVC pipe.

Bentonite seal above Van Ruth plug.

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Well Completion Details For DH06-04

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
101-102/7	1	0

DH06-04

Rev. 0 - Issued for Report

Date Revised: 3 May 06

WELL DRILL.GPJ DRILL.GDT 10 Jul 06

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B2-3

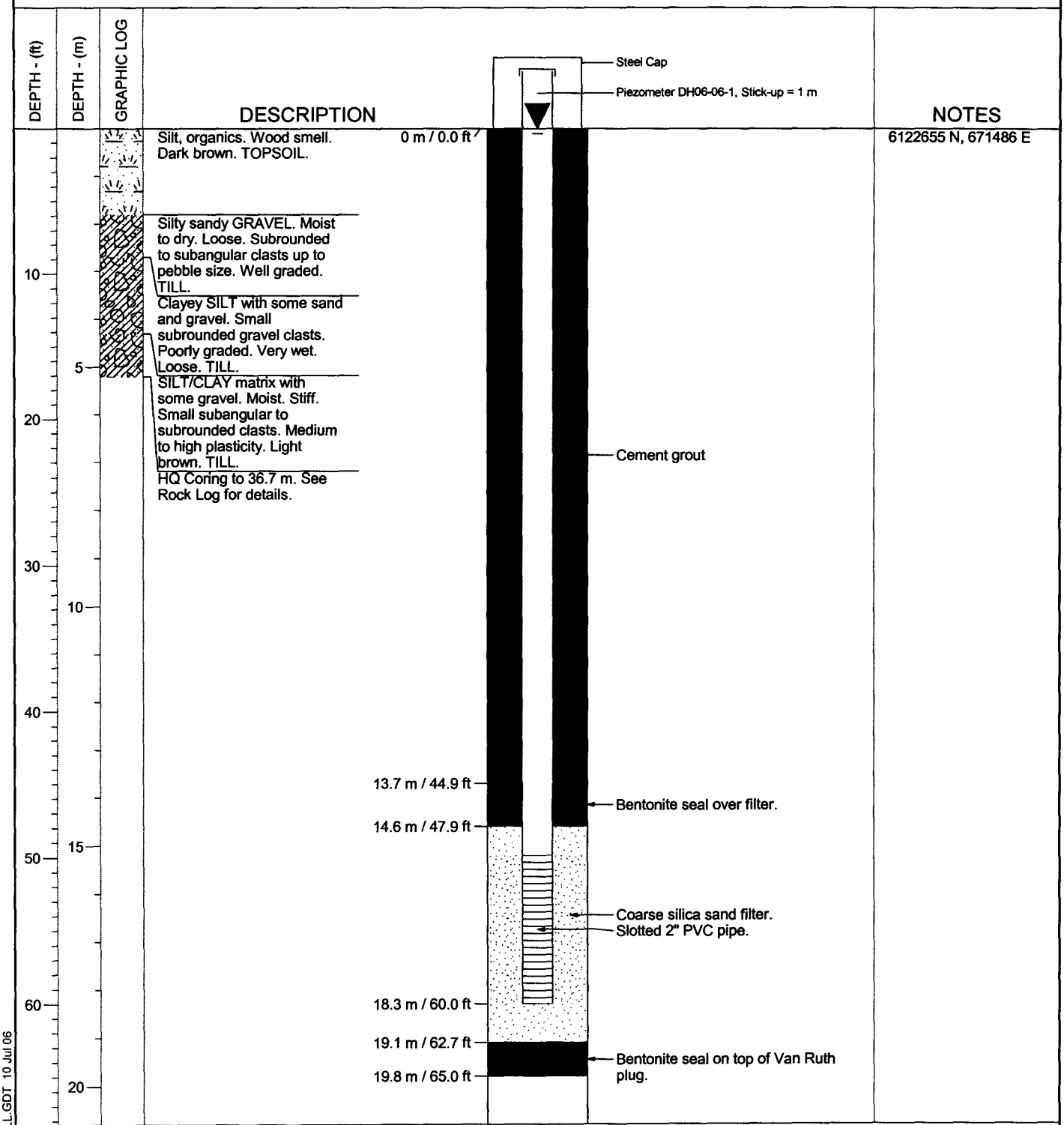
Project: Morrison Copper Gold Project | Drill Hole No.: DH06-06 | Page 1 of 1

Hole Depth: 36.7 m / 120.4 ft | Hole Diameter: 96 mm | Date Started: 9 Mar 06 | Date Completed: 11 Mar 06

Collar Elev: 960 m / 3149.6 ft | PVC Pipe I.D.: 50 mm | Logged by: LS | Reviewed by: GJ

Water Level Readings: Depth to Water / Date Measured

Well 1: 0 / 11 Mar 06



Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Well Completion Details For DH06-06

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
101-102/7	1	0

DH06-06

Rev. 0 - Issued for Report

Date Revised: 3 May 06

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WELL DRILL.GPJ DRILL.GDT 10 Jul 06

B2-4

Project: Morrison Copper Gold Project | Drill Hole No.: DH06-07 | Page 1 of 1

Hole Depth: 43.3 m / 142.1 ft | Hole Diameter: 96 mm | Date Started: 27 Feb 06 | Date Completed: 1 Mar 06

Collar Elev: 993 m / 3257.9 ft | PVC Pipe I.D.: 50 mm | Logged by: LS | Reviewed by: GJ

Water Level Readings: Depth to Water / Date Measured

Well 1: 0 / 1 Mar 06

DEPTH - (ft)	DEPTH - (m)	GRAPHIC LOG	DESCRIPTION	NOTES
0	0		0 m / 0.0 ft — Organic topsoil. Black. Moist.	6122667 N, 671775 E
			SILT/CLAY matrix with some gravel and trace sand. Moist. Stiff. Medium to high plasticity. Subangular to angular small clasts up to cobble size. Well graded. Light brown. TILL.	
30	10		HQ Coring to 43 m. See Rock Log for details.	
86.9	26.5		26.5 m / 86.9 ft — Bentonite seal on top of filter.	
89.9	27.4		27.4 m / 89.9 ft	
109.9	33.5		33.5 m / 109.9 ft — Coarse silica sand filter. Slotted 2" PVC pipe.	
112.5	34.3		34.3 m / 112.5 ft — Bentonite seal on top of Van Ruth plug.	

Steel Cap

Piezometer DH06-07-1, Stick-up = 1 m

Cement grout.

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Well Completion Details For DH06-07

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
101-102/7	1	0

DH06-07

Rev. 0 - Issued for Report

Date Revised: 3 May 06

WELL DRILL.GPJ DRILL.GDT 10 Jul 06

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B2-5

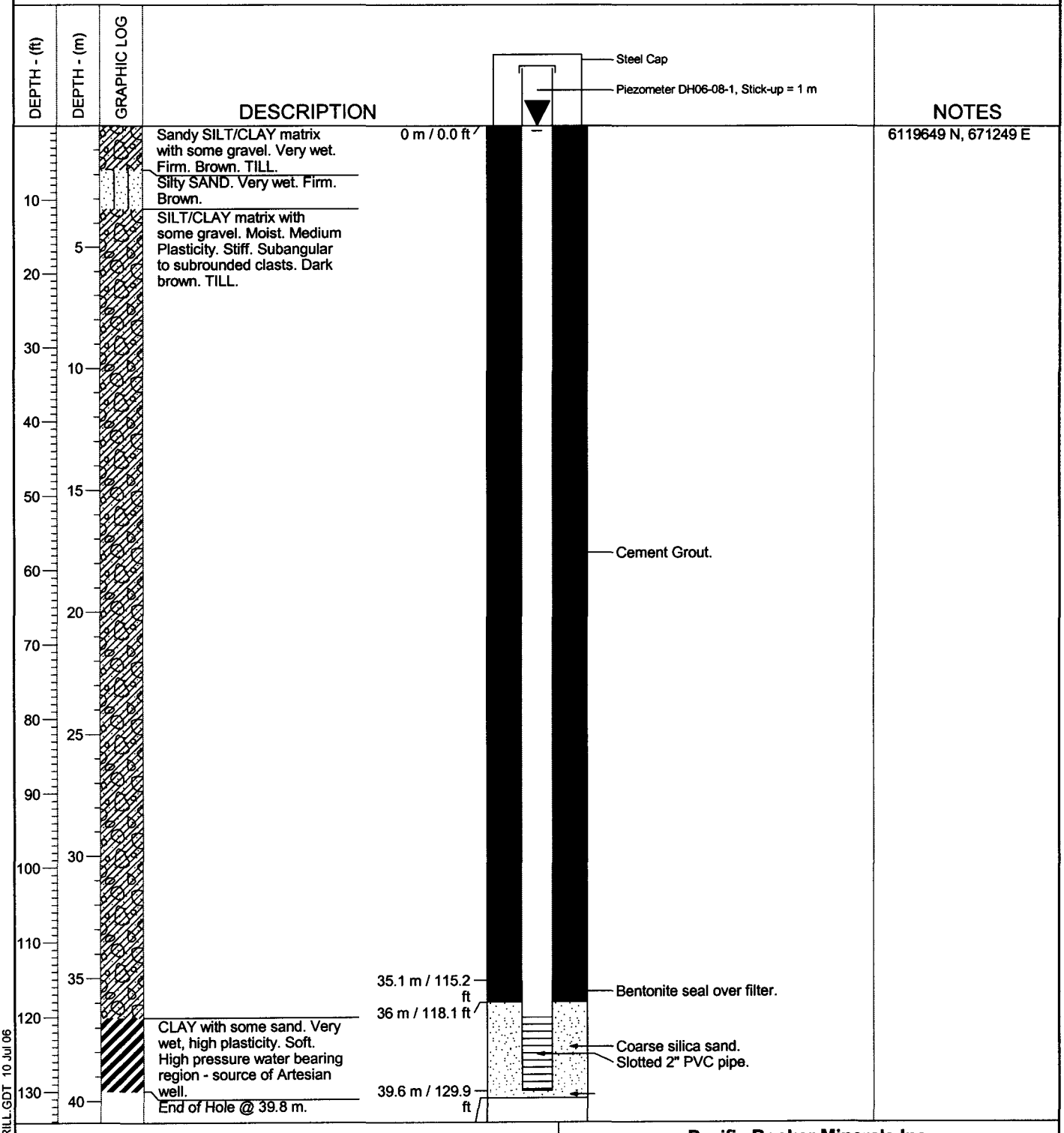
Project: Morrison Copper Gold Project | Drill Hole No.: DH06-08 | Page 1 of 1

Hole Depth: 39.9 m / 130.9 ft | Hole Diameter: 96 mm | Date Started: 18 Mar 06 | Date Completed: 20 Mar 06

Collar Elev: 838 m / 2749.3 ft | PVC Pipe I.D.: 50 mm | Logged by: JV | Reviewed by: GJ

Water Level Readings: Depth to Water / Date Measured

Well 1: 0 / 20 Mar 06



Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Well Completion Details For DH06-08

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
101-102/7	1	0

DH06-08

Rev. 0 - Issued for Report

Date Revised: 2 May 06

WELL DRILL.GPJ DRILL.GDT 10 Jul 06

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B2-6

Project: Morrison Copper Gold Project | Drill Hole No.: DH06-09 | Page 1 of 1

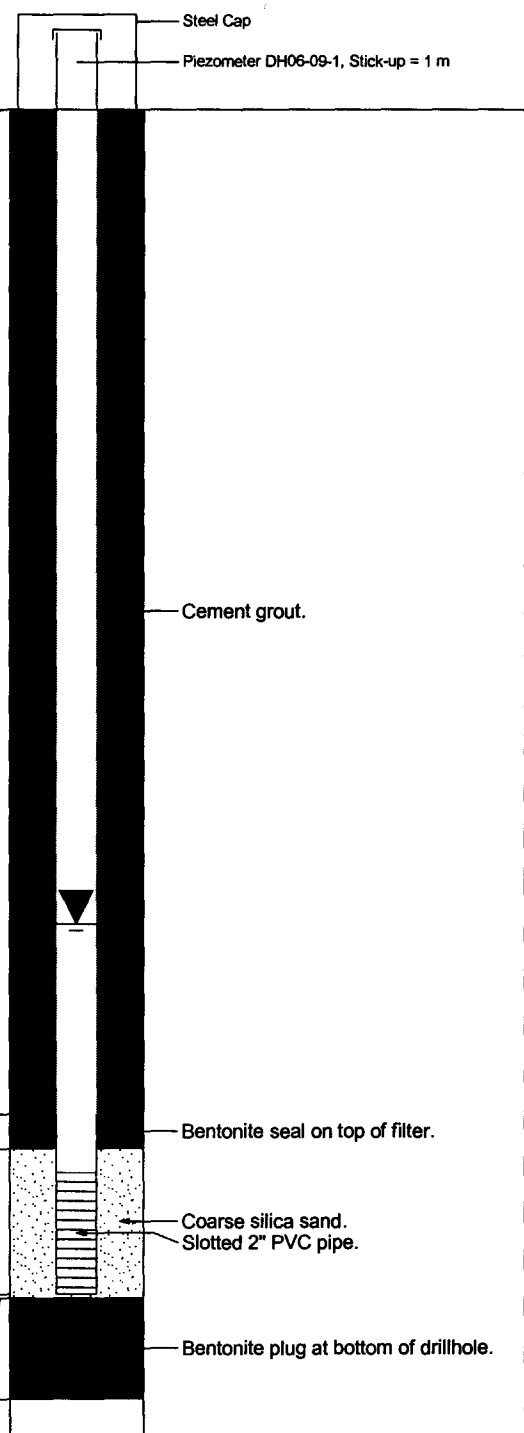
Hole Depth: 33.2 m / 108.9 ft | Hole Diameter: 96 mm | Date Started: 20 Mar 06 | Date Completed: 22 Mar 06

Collar Elev: 835 m / 2739.5 ft | PVC Pipe I.D.: 50 mm | Logged by: JV | Reviewed by: GJ

Water Level Readings: Depth to Water / Date Measured

Well 1: 21 / 20 Mar 06

DEPTH - (ft)	DEPTH - (m)	GRAPHIC LOG	DESCRIPTION	NOTES
			0 m / 0.0 ft	6119478 N, 671152 E
5	1		Organic soil, moist, black.	
	2		CLAY. Moist. Highly plastic. Fine grained. White/grey.	
10	3		SILT/CLAY matrix with some gravel and trace sand. Stiff. Moist. Trace amounts of yellowish sand. Subrounded to subangular clasts. Medium to low plasticity. Dark brown. TILL.	
15	4			
	5			
20	6			
25	7			
	8			
30	9			
	10			
35	11			
	12			
40	13			
45	14			
	15			
50	16			
55	17			
	18			
60	19			
65	20			
	21			
70	22			
75	23			
	24			
80	25			
85	26		25.9 m / 85.0 ft	
	27		26.8 m / 87.9 ft	
90	28			
95	29			
	30		Drilled into bedrock to 33 m. No core taken.	
100	31		30.5 m / 100.1 ft	
105	32		30.6 m / 100.4 ft	
	33		33.2 m / 108.9 ft	
110	34			



Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Well Completion Details For DH06-09

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
101-102/7	1	0

DH06-09

Rev. 0 - Issued for Report

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Date Revised: 1 May 06

B2-7

WELL DRILL.GPJ DRILL.GDT 10 Jul 06

Project: Morrison Copper Gold Project | Drill Hole No.: DH06-10 | Page 1 of 1

Hole Depth: 53.6 m / 175.9 ft | Hole Diameter: 96 mm | Date Started: 17 Feb 06 | Date Completed: 19 Feb 06

Collar Elev: 1001 m / 3284.1 ft | PVC Pipe I.D.: 50 mm | Logged by: JV | Reviewed by: GJ

Water Level Readings: Depth to Water / Date Measured

Well 1: 29.6 / 20 Feb 06

DEPTH - (ft)	DEPTH - (m)	GRAPHIC LOG	DESCRIPTION	NOTES
0	0		0 m / 0.0 ft	6125683 N, 671523 E
10			TILL/SILT with some gravel. Stiff. Fine gravel. Medium plasticity. Dark brown. Moist.	
			Hit a boulder. Back to till at the bottom of run.	
	5		TILL/SILT with some gravel. Stiff. Fine gravel. Medium plasticity. Dark brown. Moist.	
20				
30	10			
40			Same TILL as above, but with trace amounts of orangey/green sand.	
50	15			
60				
70	20		HQ Coring to 53.6 m. See Rock Log for details.	
80	25			
90			27.4 m / 89.9 ft	
			28.3 m / 92.8 ft	
100	30			
			32 m / 105.0 ft	
			32.6 m / 107.0 ft	
110			33.2 m / 108.9	

Steel Cap

Piezometer DH06-10-1, Stick-up = 1 m

Cement Grout with 2" PVC pipe.

3/8" Coated Bentonite tablets

Filter Sand

2" diamter slotted PVC pipe.

Bentonite well bottom on top of Van Ruth plug.

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Well Completion Details For DH06-10

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
101-102/7	1	0

DH06-10

Rev. 0 - Issued for Report

Date Revised: 3 Mar 06

WELL DRILL.GPJ DRILL.GDT 10 Jul 06

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B2-8

Project: Morrison Copper Gold Project | Drill Hole No.: DH06-11 | Page 1 of 1

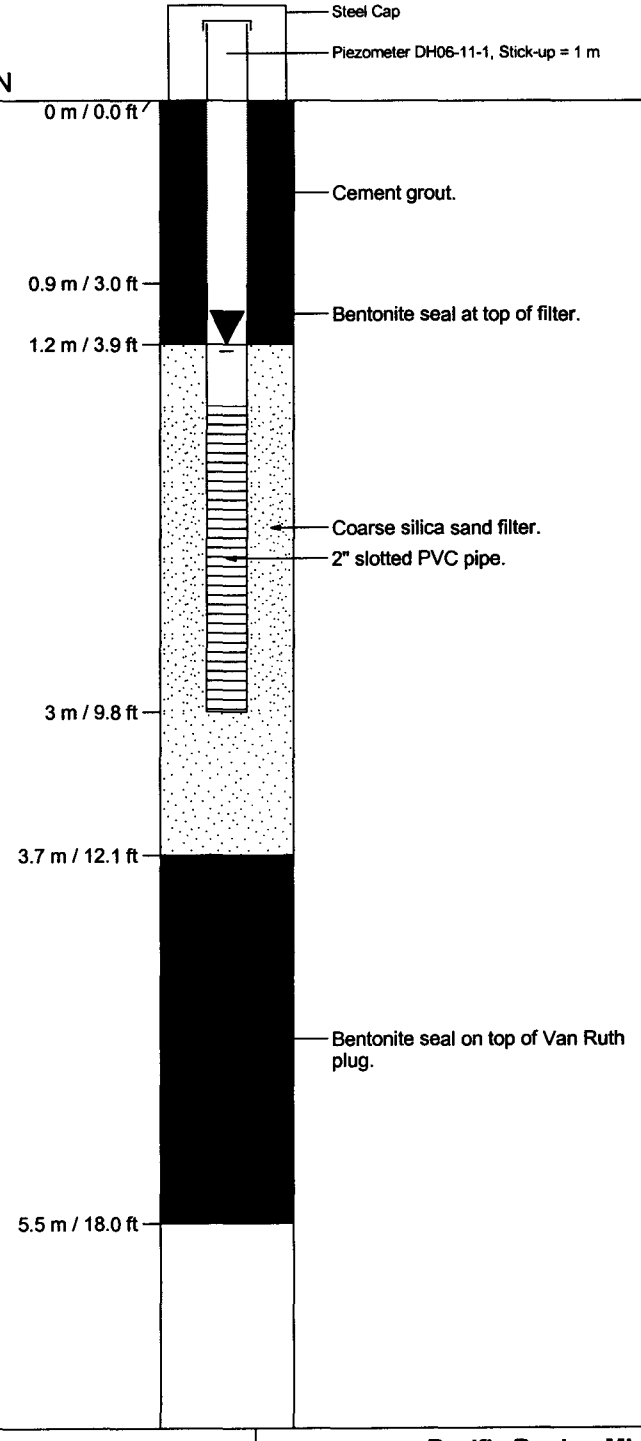
Hole Depth: 36.9 m / 121.1 ft | Hole Diameter: 96 mm | Date Started: 20 Feb 06 | Date Completed: 22 Feb 06

Collar Elev: 965 m / 3166.0 ft | PVC Pipe I.D.: 50 mm | Logged by: LS | Reviewed by: GJ

Water Level Readings: Depth to Water / Date Measured

Well 1: 1.2 / 22 Feb 06

DEPTH - (ft)	DEPTH - (m)	GRAPHIC LOG	DESCRIPTION	NOTES
			Clay/silt and gravel. Trace fine sand. Angular clasts. Low to medium plasticity. Slightly moist. Stiff. TILL.	6125568 N, 671912 E
			Silt/Clay matrix with some gravel. Moist to very moist. Stiff. Dark brown. TILL.	
			HQ Coring to 37 m. See Rock Log for details.	



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Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Well Completion Details For DH06-11

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
101-102/7	1	0

DH06-11

Rev. 0 - Issued for Report

Date Revised: 1 May 06

WELL DRILL.GPJ DRILL.GDT 10 Jul 06

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B2-9

Project: Morrison Copper Gold Project | Drill Hole No.: DH06-12 | Page 1 of 1

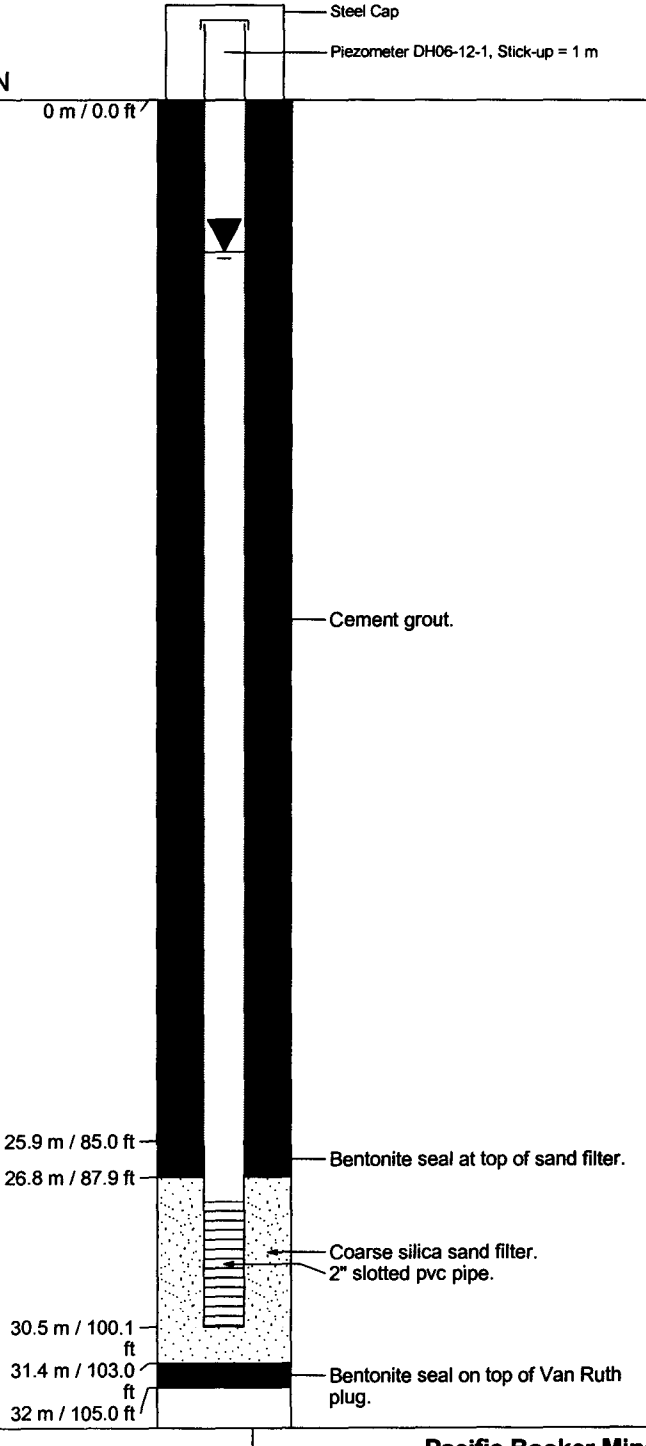
Hole Depth: 58.3 m / 191.3 ft | Hole Diameter: 96 mm | Date Started: 22 Feb 06 | Date Completed: 26 Feb 06

Collar Elev: 996 m / 3267.7 ft | PVC Pipe I.D.: 50 mm | Logged by: JV & LS | Reviewed by: GJ

Water Level Readings: Depth to Water / Date Measured

Well 1: 3.8 / 26 Feb 06

DEPTH - (ft)	DEPTH - (m)	GRAPHIC LOG	DESCRIPTION	NOTES
0	0		Clayey SILT. Light brown, moist. Stiff. Poorly graded. Medium plasticity.	6125182 N, 672265 E
10			Silt/Clay matrix with some gravel. Small to medium sized clasts. Medium plasticity. Slightly moist. Stiff. Dark brown. TILL	
20	5			
30			Silt/clay with some gravel and trace sand. Moist. Small to medium sized clasts. Trace amount of orange coloured sand. Medium plasticity. Stiff. Dark brown. TILL.	
40	10		HQ Coring to 58 m. See Rock Log for details.	
50	15			
60				
70	20			
80				
90	25			
100	30			



Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Well Completion Details For DH06-12

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
101-102/7	1	0

DH06-12

Rev. 0 - Issued for Report

Date Revised: 1 May 06

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B2-10

WELL DRILL.GPJ DRILL.GDT 10 Jul 06

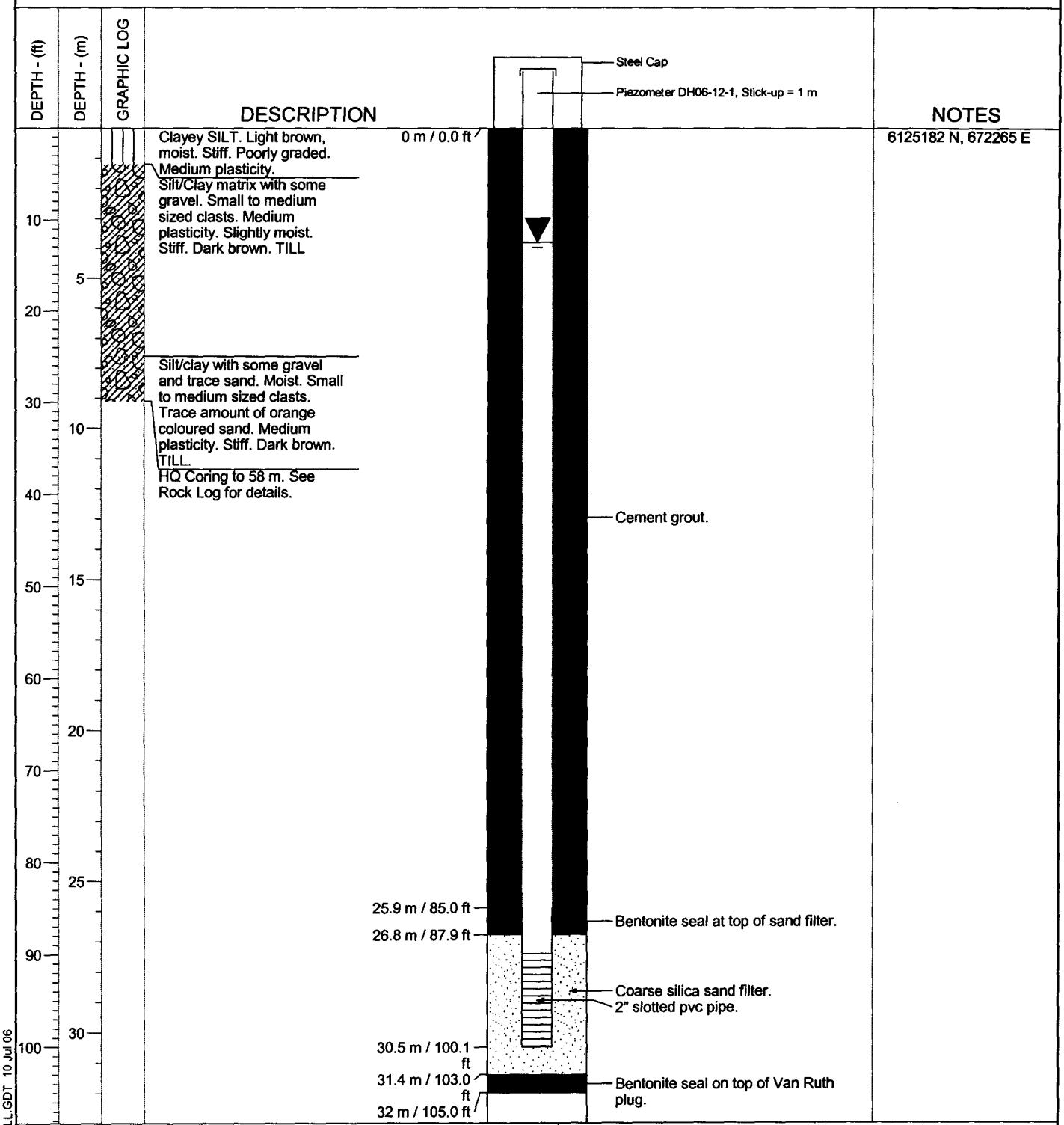
Project: Morrison Copper Gold Project | Drill Hole No.: DH06-12 | Page 1 of 1

Hole Depth: 58.3 m / 191.3 ft | Hole Diameter: 96 mm | Date Started: 22 Feb 06 | Date Completed: 26 Feb 06

Collar Elev: 996 m / 3267.7 ft | PVC Pipe I.D.: 50 mm | Logged by: JV & LS | Reviewed by: GJ

Water Level Readings: Depth to Water / Date Measured

Well 1: 3.8 / 26 Feb 06



Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Well Completion Details For DH06-12

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
101-102/7	1	0

DH06-12

Rev. 0 - Issued for Report

Date Revised: 1 May 06

WELL DRILL.GPJ DRILL.GDT 10 Jul 06

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B2 - 11

Project: Morrison Copper Gold Project | Drill Hole No.: DH06-13 | Page 1 of 1

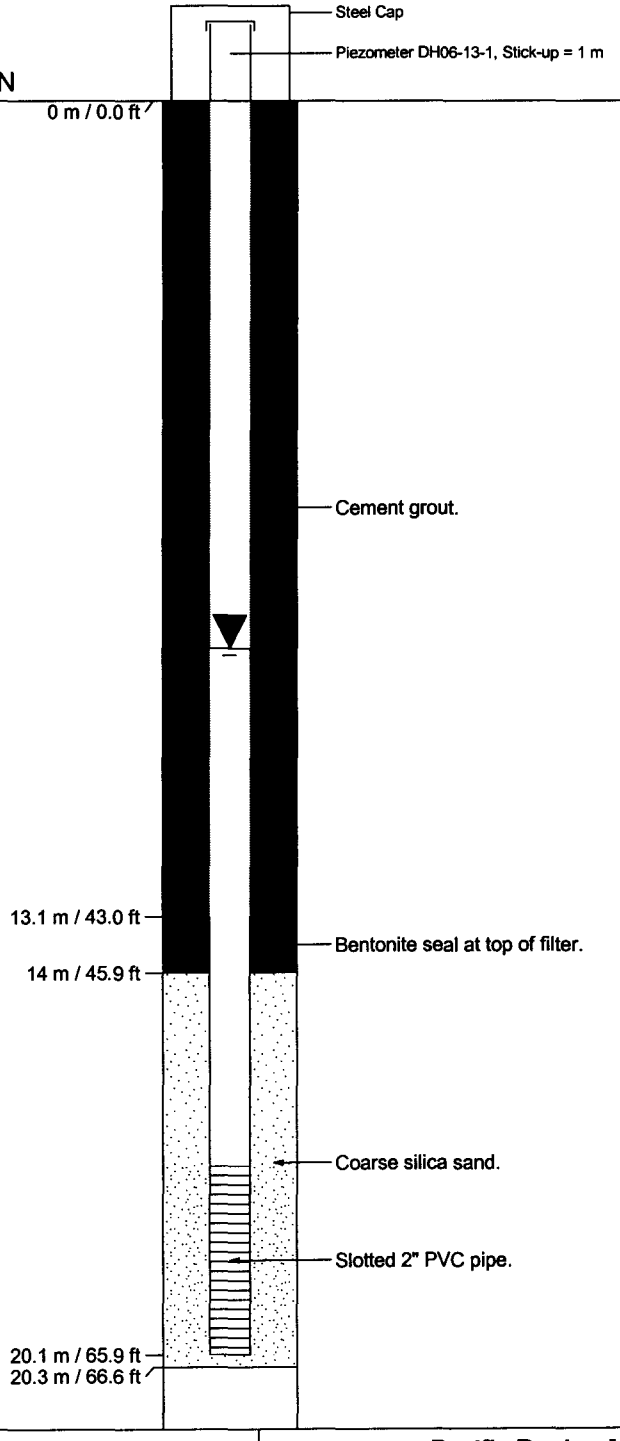
Hole Depth: 20.3 m / 66.6 ft | Hole Diameter: 96 mm | Date Started: 22 Mar 06 | Date Completed: 24 Mar 06

Collar Elev: 808 m / 2650.9 ft | PVC Pipe I.D.: 50 mm | Logged by: JV | Reviewed by: GJ

Water Level Readings: Depth to Water / Date Measured

Well 1: 8.8 / 23 Mar 06

DEPTH - (ft)	DEPTH - (m)	GRAPHIC LOG	DESCRIPTION	NOTES
			0 m / 0.0 ft	6119111 N, 670800 E
	0		Sandy SILT/CLAY with organics. Dry. Firm. Reddish brown. TILL.	
5	1		Gravelly SILT/CLAY. Low to medium plasticity. Moist. Subangular to subrounded clasts. Dark brown. TILL.	
10	3			
15	4			
20	5			
25	7			
30	8			
35	9		Sandy CLAY. Moist. Low plasticity. Sand looks like coarse calcite chunks. Soft. Whitish grey/green. Trace pyrite in sand.	
40	10		HQ Coring to 20 m. See Rock Log for details.	
45	12			
50	13			
55	14			
60	15			
65	17			
	18			
	19			
	20			
	21			



Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Well Completion Details For DH06-13

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
101-102/7	1	0

DH06-13

Rev. 0 - Issued for Report

Date Revised: 1 May 06

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WELL DRILL.GPJ DRILL.GDT 10 Jul 06

B2 - 12

Project: Morrison Copper Gold Project | Drill Hole No.: DH06-14 | Page 1 of 1

Hole Depth: 29 m / 95.1 ft | Hole Diameter: 96 mm | Date Started: 22 Mar 06 | Date Completed: 23 Mar 06

Collar Elev: 840 m / 2755.9 ft | PVC Pipe I.D.: 50 mm | Logged by: JV | Reviewed by: GJ

Water Level Readings: Depth to Water / Date Measured

Well 1: /

DEPTH - (ft)	DEPTH - (m)	GRAPHIC LOG	DESCRIPTION	NOTES
			0 m / 0.0 ft	6119159 N, 671396 E
0–5	0–1		Gravelly SAND, with some clay. Wet. Loose. Reddish brown.	
5–20	1–6		SILT/CLAY matrix with some gravel. Moist. Low-medium plasticity. Stiff. Subangular to angular gravel. Dark brown. TILL.	
20–65	6–20		HQ Coring to 29 m. See Rock Log for details.	

Steel Cap

Piezometer DH06-14-1, Stick-up = 1 m

Cement Grout

15.5 m / 50.9 ft — Bentonite seal above filter.

16.5 m / 54.1 ft — Coarse silica sand. Slotted 2" PVC pipe.

20.1 m / 65.9 ft

20.4 m / 66.9 ft — Bentonite seal on top of Van Ruth plug.

21.9 m / 71.9 ft

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Well Completion Details For DH06-14

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
101-102/7	1	0

DH06-14

Rev. 0 - Issued for Report

Date Revised: 2 May 06

WELL DRILL.GPJ DRILL.GDT 10 Jul 06

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B2-13

Project: Morrison Copper Gold Project | Drill Hole No.: DH06-15a | Page 1 of 1

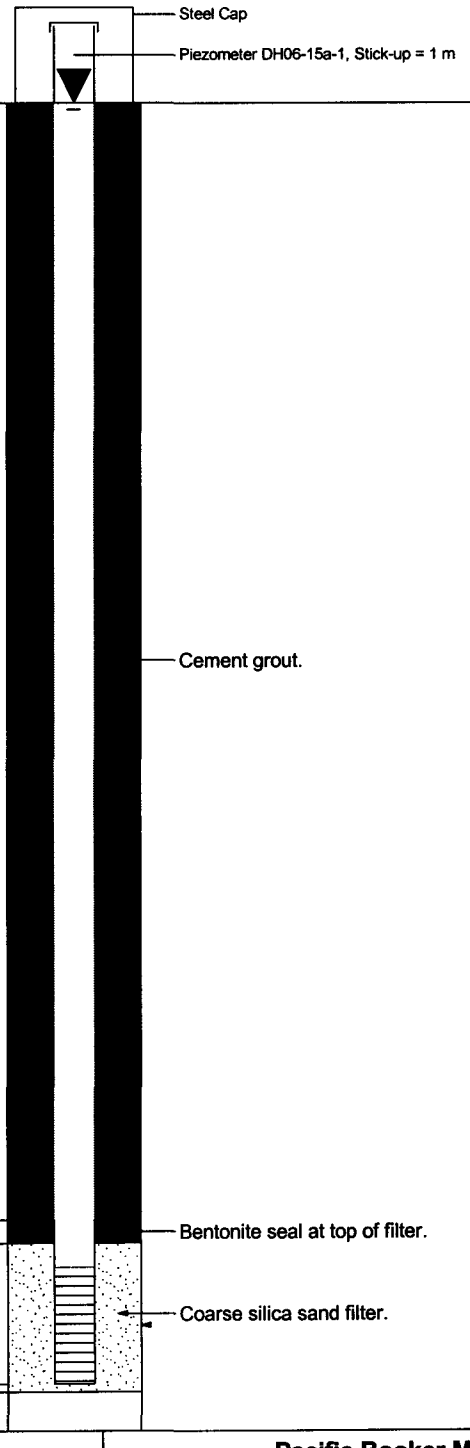
Hole Depth: 33.1 m / 108.6 ft | Hole Diameter: 96 mm | Date Started: 12 Mar 06 | Date Completed: 17 Mar 06

Collar Elev: 817 m / 2680.4 ft | PVC Pipe I.D.: 50 mm | Logged by: JV & LS | Reviewed by: GJ

Water Level Readings: Depth to Water / Date Measured

Well 1: 0 / 16 Mar 06

DEPTH - (ft)	DEPTH - (m)	GRAPHIC LOG	DESCRIPTION	NOTES
0	0		0 m / 0.0 ft	6120320 N, 670693 E
5	1–2		Sandy silt/clay matrix with some gravel. Moist. Stiff. Subrounded clasts. Well graded. Dark brown. TILL.	
10	3			
15	4–5		Silty SAND. Fine sand. Moist. Firm. Poorly graded. Medium plasticity. Light brown.	
20	6		Silt/Clay matrix with some gravel. Moist. Stiff. Poorly graded. Few clasts. Subangular to subrounded. Medium plasticity. Light brown. TILL.	
25	7–8			
30	9			
35	10–11			
40	12			
45	13–14			
50	15			
55	16–17			
60	18			
65	19–20			
70	21			
75	22–23			
80	24			
85	25–26			
90	27			
95	28–29		28.7 m / 94.2 ft 29.3 m / 96.1 ft	
100	30–31			
105	32			
110	33		Bedrock @ 32.9 m. EOH (Target depth).	



Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Well Completion Details For DH06-15A

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
101-102/7	1	0

DH06-15a

Rev. 0 - Issued for Report

Date Revised: 1 May 06

WELL DRILL.GPJ DRILL.GDT 10 Jul 06

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B2-14

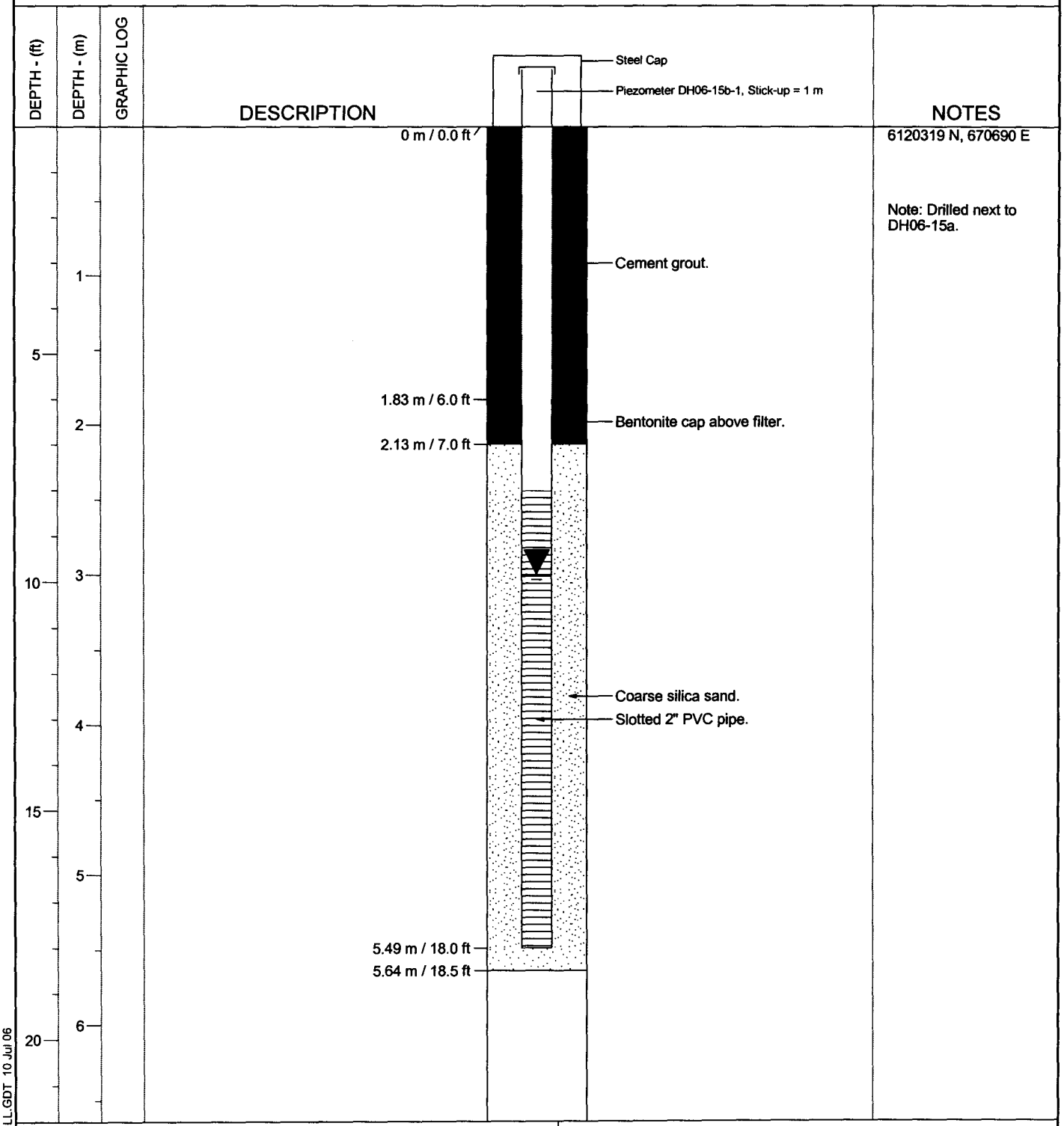
Project: Morrison Copper Gold Project | Drill Hole No.: DH06-15b | Page 1 of 1

Hole Depth: 5.64 m / 18.5 ft | Hole Diameter: 96 mm | Date Started: 12 Mar 06 | Date Completed: 17 Mar 06

Collar Elev: 817 m / 2680.4 ft | PVC Pipe I.D.: 50 mm | Logged by: JV | Reviewed by: GJ

Water Level Readings: Depth to Water / Date Measured

Well 1: 3 / 17 Mar 06



Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Well Completion Details For DH06-15B

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
101-102/7	1	0

DH06-15b

Rev. 0 - Issued for Report

Date Revised: 1 May 06

WELL DRILL.GPJ DRILL.GDT 10 Jul 06

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B2-15

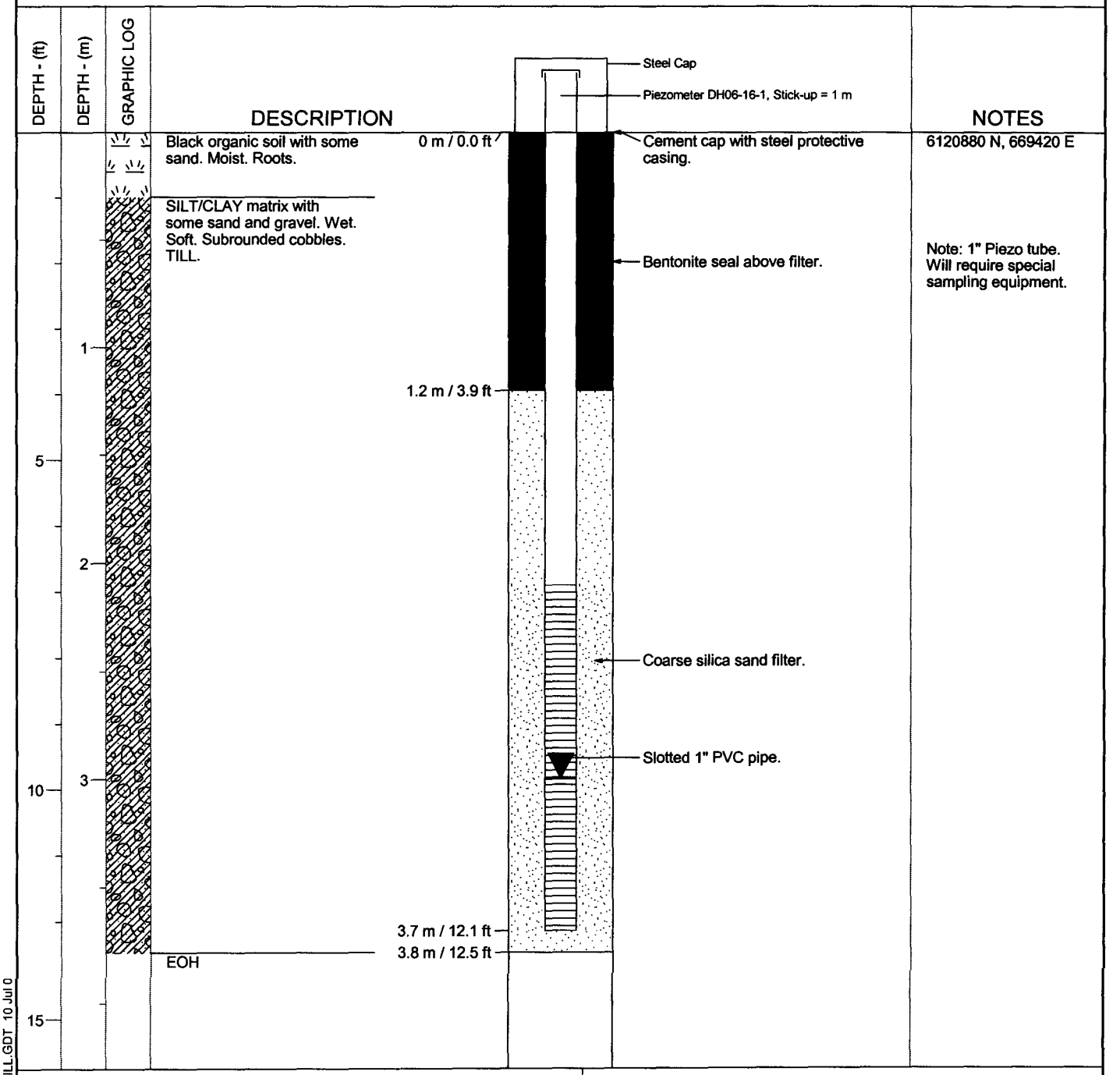
Project: Morrison Copper Gold Project | Drill Hole No.: DH06-16 | Page 1 of 1

Hole Depth: 3.8 m / 12.5 ft | Hole Diameter: 64 mm | Date Started: 2 Apr 06 | Date Completed: 2 Apr 06

Collar Elev: m / ft | PVC Pipe I.D.: 25 mm | Logged by: JV | Reviewed by: GJ

Water Level Readings: Depth to Water / Date Measured

Well 1: 3 / 2 Apr 06



Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Well Completion Details For DH06-16

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
101-102/7	1	0

DH06-16

Rev. 0 - Issued for Report

Date Revised: 4 May 06

WELL DRILL.GPJ DRILL.GDT 10 Jul 0

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B2-16

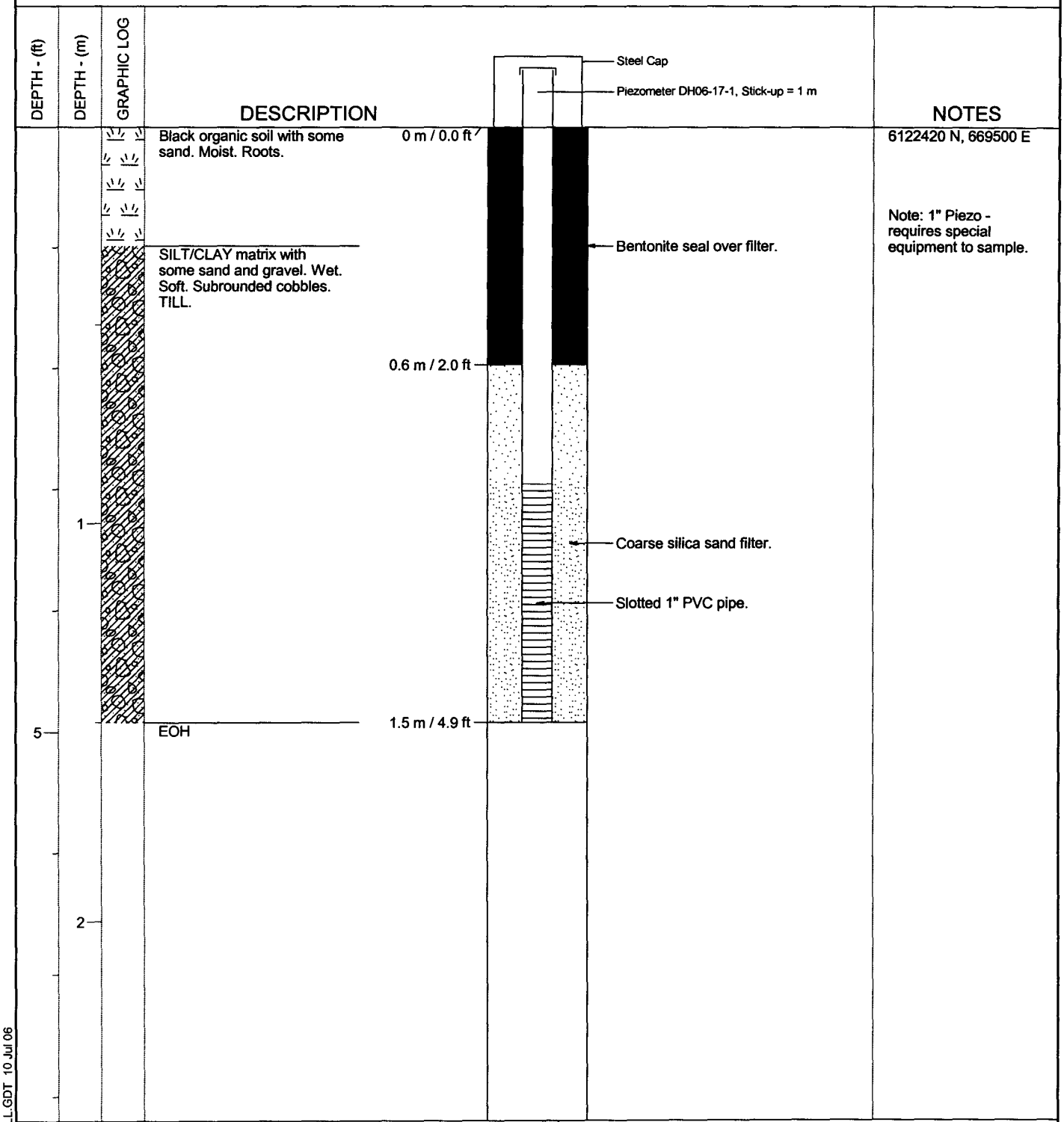
Project: Morrison Copper Gold Project | Drill Hole No.: DH06-17 | Page 1 of 1

Hole Depth: 1.5 m / 4.9 ft | Hole Diameter: 64 mm | Date Started: 3 Apr 06 | Date Completed: 3 Apr 06

Collar Elev: m / ft | PVC Pipe I.D.: 25 mm | Logged by: JV | Reviewed by: GJ

Water Level Readings: Depth to Water / Date Measured

Well 1: /



Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Well Completion Details For DH06-17

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
101-102/7	1	0

DH06-17

Rev. 0 - Issued for Report

WELL DRILL.GPJ DRILL.GDT 10 Jul 06

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Date Revised: 4 May 06

B2-17

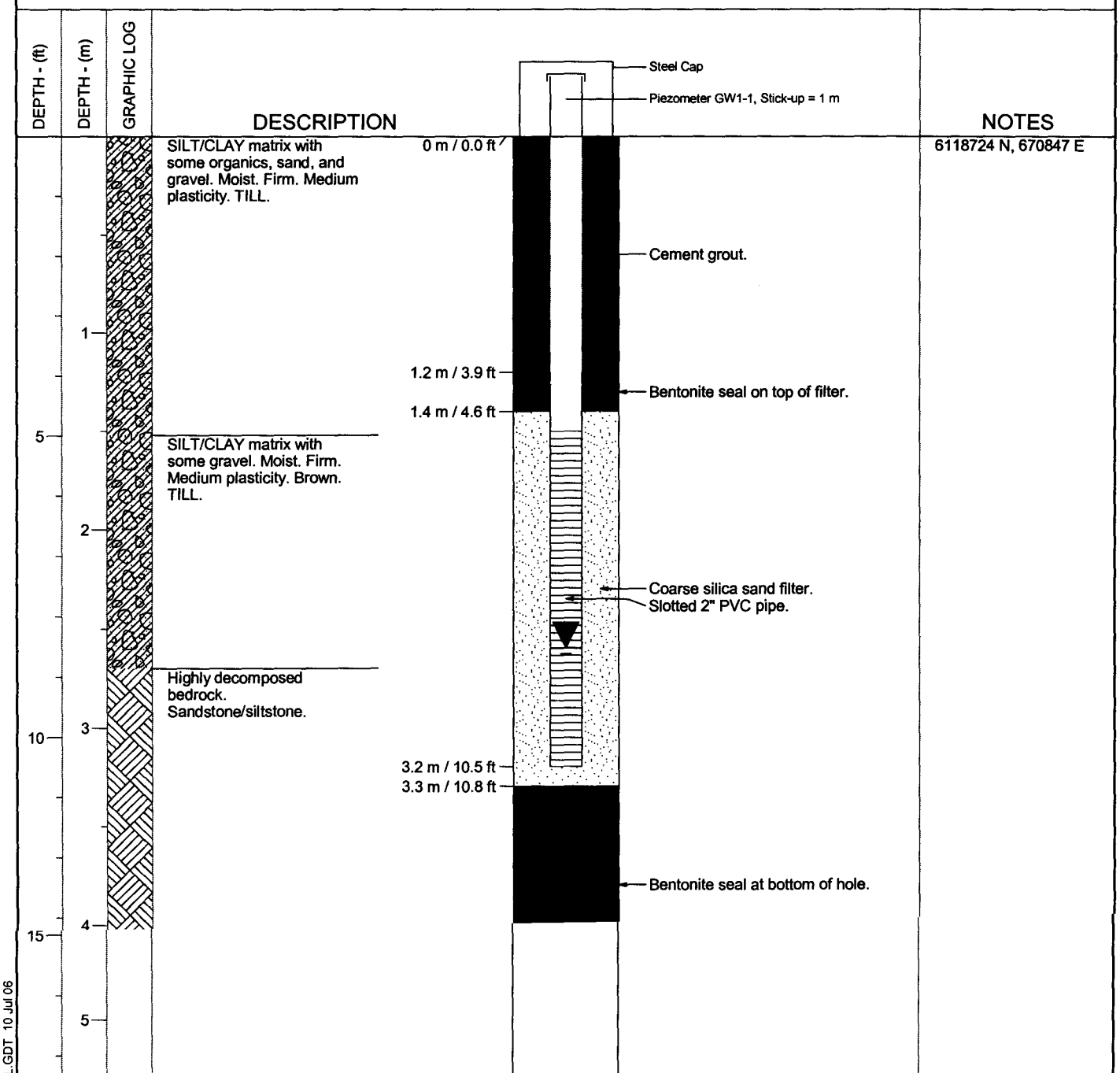
Project: Morrison Copper Gold Project | Drill Hole No.: GW1 | Page 1 of 1

Hole Depth: 4.3 m / 14.1 ft | Hole Diameter: 96 mm | Date Started: 4 Apr 06 | Date Completed: 4 Apr 06

Collar Elev: 795 m / 2608.3 ft | PVC Pipe I.D.: 50 mm | Logged by: JV | Reviewed by: GJ

Water Level Readings: Depth to Water / Date Measured

Well 1: 2.6 / 4 Apr 06



Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Well Completion Details For GW1

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
101-102/7	1	0

GW1

Rev. 0 - Issued for Report

Date Revised: 4 May 06

WELL DRILL.GPJ DRILL.GDT 10 Jul 06

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B2-18

APPENDIX B3
(Rev 0)

TESTPIT LOGS

- TP06-1
- TP05-2
- TP06-3
- TP05-4
- TP05-5
- TP06-6
- TP05-7
- TP05-8
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- TP06-37
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- TP06-40
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- TP06-42
- TP06-43
- TP06-44

(Pages B3-1 to B3-35)

Project: Morrison Copper Gold Project | Test Pit: TP06-1 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 29 Jan 06

Location: CONVEYOR ALIGNMENT | Total Depth: 3.2 m/ 10.5 ft | Date Completed: 29 Jan 06

Coordinates 6,121,830 m N, 670,880 m E | Surface Elev.: 974 m/3195.5 ft | Logged by: TT

(NAD 83- Zone 10) | Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
0				Topsoil, organic, brown		
1				CLAY, some gravel, trace sand, moderately soft, brown, moist		
2	0.5					
3						TP06-1-1
4	1.0			CLAY & GRAVEL (Till), some cobbles, very stiff, brown, moist		
5	1.5					TP06-1-2
6						
7	2.0					
8						
9	2.5					
10						
11	3.0			End of test pit at 3.2 m/10.5 ft		
12	3.5					
13						
14	4.0					
15						
16	4.5					

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP06-1

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP06-1

Rev. 0 - Issued for Report

TEST PIT TESTPIT.GPJ TESTPIT.GDT 9 Jun 06

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Date Revised: 29 Jan 06

B3-1

Project: Morrison Copper Gold Project | Test Pit: TP05-2 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 24 Nov 05

Location: CONVEYOR ALIGNMENT | Total Depth: 3.1 m/ 10.2 ft | Date Completed: 24 Nov 05

Coordinates 6,121,943 m N, 671,388 m E | Surface Elev.: 966 m/3169.3 ft | Logged by: TT

(NAD 83- Zone 10) | Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
0	0			Topsoil, organics, moss, roots	Elevations and coordinates were obtained by hand held GPS (Garmin)	
1	0.5	X		SAND and GRAVEL, trace clay, loose, reddish brown, moist		TP05-2-1
3	1.0			CLAY and GRAVEL (TILL), frequent cobbles (+15"), stiff, medium plasticity, brown, dry		
5	1.5					
6	2.0	X				TP05-2-2
8	2.5					
10	3.0			End of test pit at 3.1 m/10.2 ft		
11	3.5					
12						
13	4.0					
14						
15	4.5					
16						

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP05-2

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP05-2

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TEST PIT TESTPIT.GPJ TESTPIT.GDT 9 Jun 06

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Date Revised: 1 Dec 05

B3-2

Project: Morrison Copper Gold Project | Test Pit: TP06-3 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 29 Jan 06

Location: CONVEYOR ALIGNMENT | Total Depth: 0.8 m/ 2.6 ft | Date Completed: 29 Jan 06

Coordinates 6,122,100 m N, 671,020 m E | Surface Elev.: 982 m/3221.8 ft | Logged by: TT

(NAD 83- Zone 10) | Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
0				Topsoil, organic, brown		
1	0.5			CLAY & SAND, trace silt, increased rock clasts, firm, brown, dry		
2						
3	1.0			End of test pit at 0.8 m/2.6 ft Bedrock, Intrusive, trace of chlorite alteration		
4						
5	1.5					
6						
7	2.0					
8						
9	2.5					
10						
11	3.0					
12	3.5					
13						
14	4.0					
15	4.5					
16						

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP06-3

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP06-3

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TEST PIT TESTPIT.GPJ TESTPIT.GDT 9 Jun 06

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Date Revised: 29 Jan 06

B3-3

Project: Morrison Copper Gold Project | Test Pit: TP05-4 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 24 Nov 05

Location: CONVEYOR ALIGNMENT | Total Depth: 3.6 m/ 11.8 ft | Date Completed: 24 Nov 05

Coordinates 6,122,254 m N, 671,469 m E | Surface Elev.: 966 m/3169.3 ft | Logged by: TT

(NAD 83- Zone 10) | Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
0	0			organic soil, PEAT, black, wet	Elevations and coordinates were obtained by hand held GPS (Garmin)	
1					Excess surface water	
	0.5			CLAY and GRAVEL (TILL), some rock clasts , stiff, medium plasticity, brown, moist to wet		
2						
3	1.0					TP05-4-1
4						
5	1.5					
6				very stiff, high plasticity, brown, damp		
7	2.0					
8						
9	2.5					
						TP05-4-2
10	3.0					
11						
12	3.5			End of test pit at 3.6 m/11.8 ft		
13	4.0					
14						
15	4.5					
16						

TEST PIT TESTPIT.GPJ TESTPIT.GDT 9 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP05-4

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Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP05-4

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Date Revised: 1 Dec 05

Project: Morrison Copper Gold Project | Test Pit: TP05-5 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 24 Nov 05

Location: CONVEYOR ALIGNMENT | Total Depth: 1.6 m/ 5.2 ft | Date Completed: 24 Nov 05

Coordinates 6,122,581 m N, 671,490 m E | Surface Elev.: 967 m/3172.6 ft | Logged by: TT

(NAD 83- Zone 10) | Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
0	0			Topsoil, organics, moss, roots	Elevations and coordinates were obtained by hand held GPS (Garmin)	
1	0.5			CLAY and GRAVEL (TILL), soft to firm, some rock clasts, high plasticity, brown, wet		
3	1.0	X				TP05-5-1
5	1.5			End of test pit at 1.6 m/5.2 ft		
6	2.0			BEDROCK		
8	2.5					
10	3.0					
11	3.5					
13	4.0					
14	4.5					
16						

TEST PIT TESTPIT.GPJ TESTPIT.GDT 9 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP05-5

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP05-5

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Date Revised: 1 Dec 05

Project: Morrison Copper Gold Project | Test Pit: TP06-6 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 29 Jan 06

Location: SOUTH EMBANKMENT | Total Depth: 3.2 m/ 10.5 ft | Date Completed: 29 Jan 06

Coordinates 6,122,749 m N, 671,317 m E | Surface Elev.: 959 m/3146.3 ft | Logged by: TT

(NAD 83- Zone 10) | Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
1				Topsoil, organic, brown		
	0.5			Clay & sandy GRAVEL (Till), rounded, stiff, brown, damp		
2						
3	1.0					TP06-6-1
4				CLAY & GRAVEL, trace of silt, very stiff, brown, moist		
5	1.5					
6						
7	2.0					TP06-6-2
8	2.5					
9						
10	3.0					
11				End of test pit at 3.2 m/10.5 ft		
12	3.5					
13						
14	4.0					
15	4.5					
16						

TEST PIT TESTPIT.GPJ TESTPIT.GDT 27 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP06-6

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP06-6

Rev. 0 - Issued for Report

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Date Revised: 29 Jan 06

B3-6

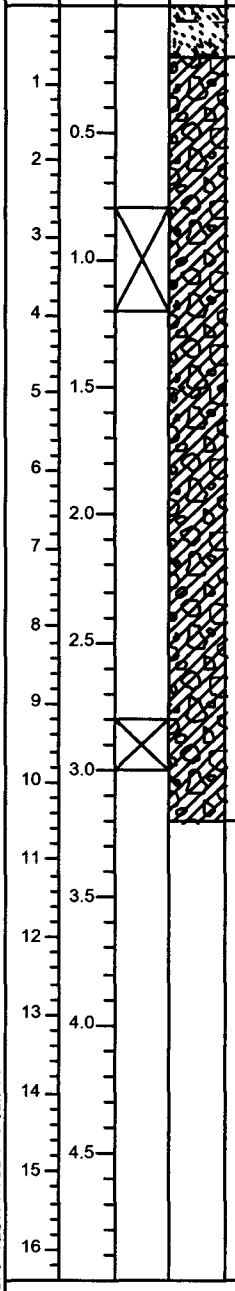
Project: Morrison Copper Gold Project | Test Pit: TP05-7 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 25 Nov 05

Location: SOUTH EMBANKMENT | Total Depth: 3.2 m/ 10.5 ft | Date Completed: 25 Nov 05

Coordinates 6,122,910 m N, 671,006 m E | Surface Elev.: 959 m/3146.3 ft | Logged by: TT

(NAD 83- Zone 10) | Reviewed by: GJ



MATERIAL DESCRIPTION	NOTES	SAMPLE ID
Topsoil, organics, moss, roots	Elevations and coordinates were obtained by hand held GPS (Garmin)	
CLAY and GRAVEL (TILL), some rock clasts, subangular, firm, medium plasticity, brown, moist		TP05-7-1
very stiff, frequent lenses of isolated silt (increasing with depth)		TP05-7-2
End of test pit at 3.2 m/10.5 ft		

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP05-7

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP05-7

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TEST PIT TESTPIT.GPJ TESTPIT.GDT 9 Jun 06

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Date Revised: 1 Dec 05

B3-7

Project: Morrison Copper Gold Project | Test Pit: TP05-8 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 26 Nov 05

Location: SOUTH EMBANKMENT | Total Depth: 0.6 m/ 2.0 ft | Date Completed: 26 Nov 05

Coordinates 6,123,151 m N, 670,743 m E | Surface Elev.: 956 m/3136.5 ft | Logged by: TT

(NAD 83- Zone 10) | Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
0				Topsoil, organics, moss, roots	Elevations and coordinates were obtained by hand held GPS (Garmin)	
1				Topsoil, CLAY and SAND. soft, brown, damp		
2	0.5			End of test pit at 0.6 m/2.0 ft		
3	1.0			Bedrock		
4						
5	1.5					
6						
7	2.0					
8	2.5					
9						
10	3.0					
11	3.5					
12						
13	4.0					
14						
15	4.5					
16						

TEST PIT TESTPIT.GPJ TESTPIT.GDT 9 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP05-8

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP05-8

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Date Revised: 1 Dec 05

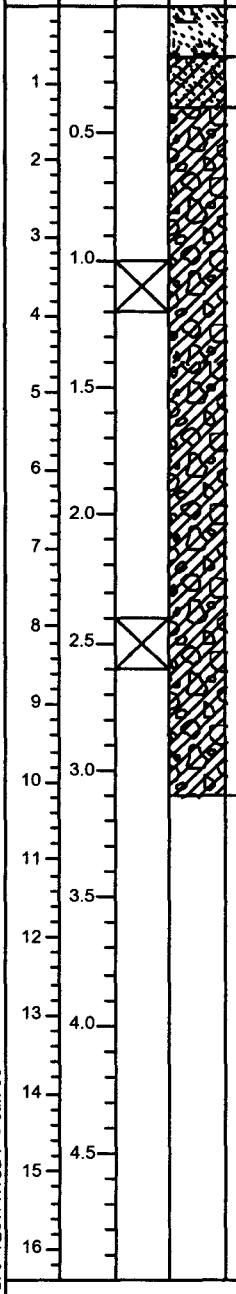
Project: Morrison Copper Gold Project | Test Pit: TP05-9 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 26 Nov 05

Location: SOUTH EMBANKMENT | Total Depth: 3.1 m/ 10.2 ft | Date Completed: 26 Nov 05

Coordinates 6,123,264 m N, 670,852 m E | Surface Elev.: 966 m/3169.3 ft | Logged by: TT

(NAD 83- Zone 10) | Reviewed by: GJ



MATERIAL DESCRIPTION	NOTES	SAMPLE ID
Topsoil, organics, moss, roots	Elevations and coordinates were obtained by hand held GPS (Garmin)	
Topsoil CLAY and SAND, soft, brown, damp		
CLAY and GRAVEL (TILL), trace of silt, some rock clasts, subangular, firm, brown, moist		TP05-9-1
very stiff with increased lean clay percent		TP05-9-2
End of test pit at 3.1 m/10.2 ft		

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP05-9

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP05-9

Rev. 0 - Issued for Report

TEST PIT TESTPIT.GPJ TESTPIT.GDT 9 Jun 06

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Date Revised: 1 Dec 05

B3-9

Project: Morrison Copper Gold Project | Test Pit: TP05-10 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 28 Nov 05

Location: SOUTH EMBANKMENT | Total Depth: 3.4 m/ 11.2 ft | Date Completed: 28 Nov 05

Coordinates 6,123,451 m N, 670,621 m E | Surface Elev.: 946 m/3103.7 ft | Logged by: TT

(NAD 83- Zone 10) | Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
0	0			Topsoil, organics, moss, roots	Elevations and coordinates were obtained by hand held GPS (Garmin)	
1	0.5			CLAY and GRAVEL (TILL), trace of sand, frequent boulders, firm, medium plasticity, brown, dry		
3	1.0	X				TP05-10-1
5	1.5					
7	2.0			CLAY and GRAVEL (TILL), stiff, frequent cobbles		
9	2.5					
11	3.0					
12	3.5			End of test pit at 3.4 m/11.2 ft		
14	4.0					
15	4.5					
16						

TEST PIT TESTPIT.GPJ TESTPIT.GDT 27 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP05-10

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP05-10

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Date Revised: 1 Dec 05

B3-10

Project: Morrison Copper Gold Project
Contractor: BABINE BARGE
Location: SOUTH EMBANKMENT
Coordinates 6,124,074 m N, 670,801 m E
(NAD 83- Zone 10)

Test Pit: TP06-15
Equipment Used: CAT 320LME
Total Depth: 3.4 m/ 11.2 ft

Page 1 of 1
Date Started: 6 Apr 06
Date Completed: 6 Apr 06
Logged by: JV
Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
0				Organic soil with decomposing vegetation and roots. Trace sand. Moist/frozen. Spongy. PEAT.		
1	0.5			SILT/CLAY with some gravel. Rounded to subrounded clasts, up to cobble size. Poorly graded. Moist. Stiff. Medium plasticity. Dark brown. TILL.		
2						
3	1.0					
4						
5	1.5					TP06-15 @ 4.5'
6						
7	2.0					
8	2.5					TP06-15 @8'
9						
10	3.0					
11	3.5			End of test pit at 3.4 m/11.2 ft		
12						
13	4.0					
14						
15	4.5					
16						

TEST PIT TESTPIT.GPJ TESTPIT.GDT 9 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP06-15

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Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP06-15

Rev. 0 - Issued for Report

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Date Revised: 4 May 06

B3-11

Project: Morrison Copper Gold Project
Contractor: BABINE BARGE
Location: SOUTH EMBANKMENT
Coordinates 6,123,975 m N, 671,085 m E
(NAD 83- Zone 10)

Test Pit: TP06-16
Equipment Used: CAT 320LME
Total Depth: 2.4 m/ 7.9 ft

Page 1 of 1
Date Started: 6 Apr 06
Date Completed: 6 Apr 06
Logged by: JV
Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
0				SILT/CLAY matrix with some sand and gravel. Slightly moist. Firm. Brown. TILL.		
1	0.5					
2				SILT/CLAY matrix with some gravel. Moist. Medium plasticity. Stiff. Dark brown. TILL.		
3	1.0					
4		X				TP06-16 @ 4'
5	1.5			Gravelly, SILT/CLAY matrix. Moist. Medium plasticity. Stiff. Some cobbles, poorly graded. Dark brown. TILL.		
6						
7	2.0					
8		X				TP06-16 @ 8'
	2.5			End of test pit at 2.4 m/7.9 ft	Hit bedrock at 2.4 m.	
9						
10	3.0					
11						
12	3.5					
13						
14	4.0					
15						
16	4.5					

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP06-16

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP06-16

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TEST PIT TESTPIT.GPJ TESTPIT.GDT 27 Jun 06

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Date Revised: 4 May 06

B3-12

Project: Morrison Copper Gold Project
Contractor: BABINE BARGE
Location: SOUTH EMBANKMENT
Coordinates 6,123,668 m N, 671,168 m E
(NAD 83- Zone 10)

Test Pit: TP06-17
Equipment Used: CAT 320LME
Total Depth: 3.4 m/ 11.2 ft

Page 1 of 1
Date Started: 6 Apr 06
Date Completed: 6 Apr 06
Logged by: JV
Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
0				Organic soil with trace sand. Roots. Moist. Soft. Blackish brown. TOPSOIL.		
1				SILT/CLAY matrix with some gravel. Moist. Firm. Medium plasticity. Poorly graded. Brown. TILL.		
2	0.5					
3	1.0					
4		X				TP06-17 @ 4'
5	1.5			Gravely SILT/CLAY matrix. Moist. Stiff. Some cobbles, and chunks of hard clay. Brown. TILL.		
6						
7	2.0					
8	2.5					
9						
10	3.0	X				TP06-17 @ 10'
11				End of test pit at 3.4 m/11.2 ft		
12	3.5					
13	4.0					
14						
15	4.5					
16						

TEST PIT TESTPIT.GPJ TESTPIT.GDT 9 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP06-17

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Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP06-17

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Date Revised: 4 May 06

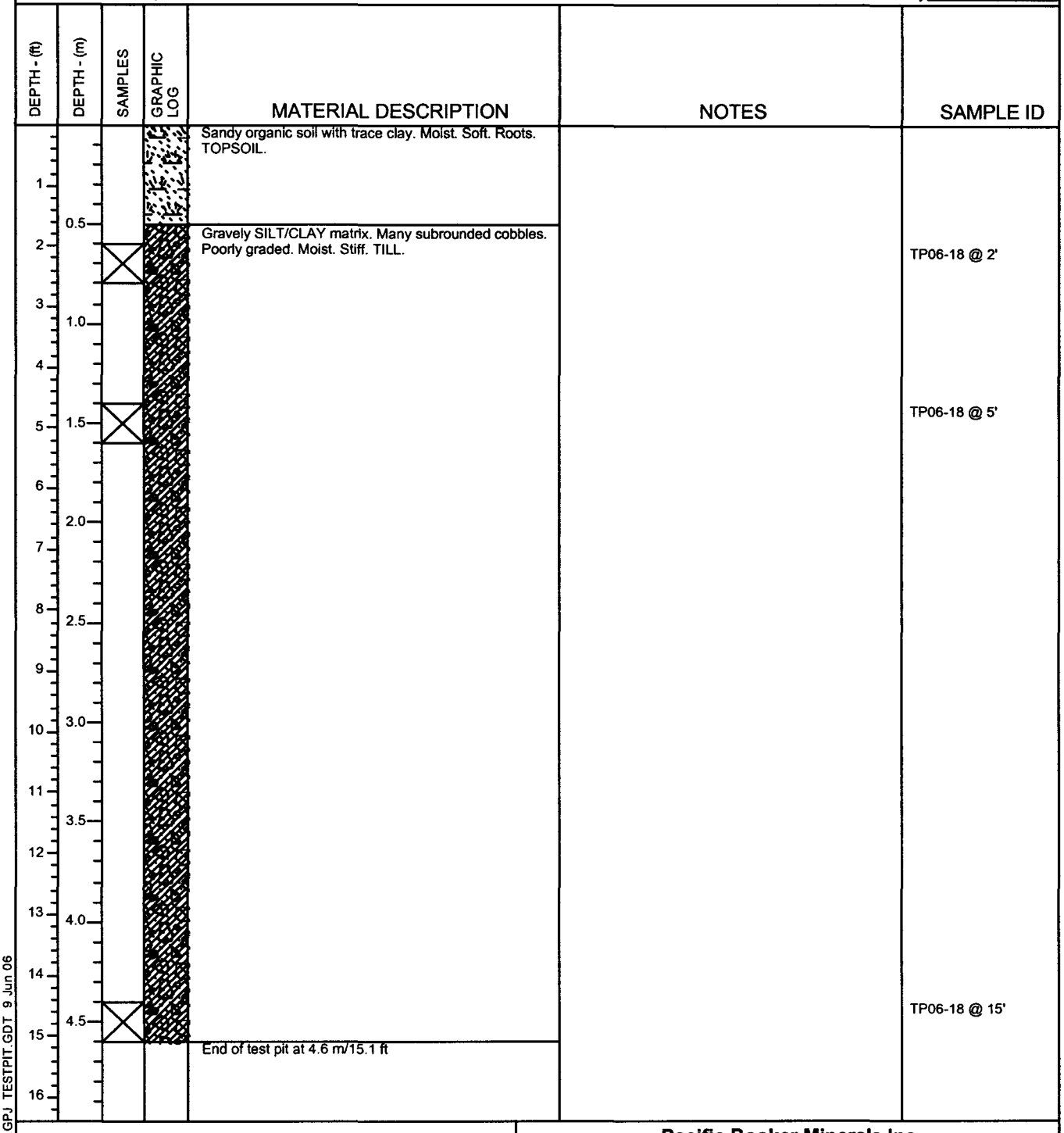
Project: Morrison Copper Gold Project | Test Pit: TP06-18 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 5 Apr 06

Location: SOUTH EMBANKMENT | Total Depth: 4.6 m/ 15.1 ft | Date Completed: 5 Apr 06

Coordinates 6,123,527 m N, 671,038 m E | Logged by: JV

(NAD 83- Zone 10) | Reviewed by: GJ



Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP06-18

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP06-18

Rev. 0 - Issued for Report

TEST PIT TESTPIT.GPJ TESTPIT.GDT 9 Jun 06

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Date Revised: 4 May 06

Project: Morrison Copper Gold Project
Contractor: BABINE BARGE
Location: SOUTH EMBANKMENT
Coordinates 6,123,650 m N, 671,400 m E
(NAD 83- Zone 10)

Test Pit: TP06-19
Equipment Used: CAT 320LME
Total Depth: 3.7 m/ 12.1 ft

Page 1 of 1
Date Started: 6 Apr 06
Date Completed: 6 Apr 06
Logged by: JV
Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
1				Organic soil with some sand. Roots. Slightly moist. Soft. TOPSOIL.		
2	0.5			SILT/CLAY matrix with some fine gravel and trace sand. Slightly moist. Low plasticity. Firm. Dark brown. TILL.		
3	1.0					TP06-19 @ 3'
4				SILT/CLAY matrix with some gravel. Subrounded clasts. Moist. Medium plasticity. Very stiff. TILL.		
5	1.5					
6						
7	2.0					
8	2.5					
9						
10	3.0					TP06-19 @10'
11						
12	3.5			End of test pit at 3.7 m/12.1 ft		
13	4.0					
14						
15	4.5					
16						

TEST PIT TESTPIT.GPJ TESTPIT.GDT 9 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP06-19

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP06-19

Rev. 0 - Issued for Report

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Date Revised: 4 May 06

B3-15

Project: Morrison Copper Gold Project
Contractor: BABINE BARGE
Location: SOUTH EMBANKMENT
Coordinates 6,123,321 m N, 671,258 m E
(NAD 83- Zone 10)

Test Pit: TP06-20
Equipment Used: CAT 320LME
Total Depth: 3 m/ 9.8 ft

Page 1 of 1
Date Started: 5 Apr 06
Date Completed: 5 Apr 06
Logged by: JV
Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
0	0			Sandy organics with trace clay. Compact. Moist. TOPSOIL.		
2	0.5			SILT/CLAY matrix with some gravel. Stiff. Moist. TILL.		TP06-20 @ 0-5'
5	1.5					TP06-20 @ 5'
10	3.0			End of test pit at 3 m/9.8 ft	Hit Bedrock.	

TEST PIT TESTPIT.GPJ TESTPIT.GDT 9 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP06-20

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP06-20

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Date Revised: 4 May 06

B3 - 16

Project: Morrison Copper Gold Project | Test Pit: TP06-21 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 6 Apr 06

Location: SOUTH EMBANKMENT | Total Depth: 3.4 m/ 11.2 ft | Date Completed: 6 Apr 06

Coordinates 6,123,485 m N, 671,487 m E | Logged by: JV

(NAD 83- Zone 10) | Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
0				Organic soil with decomposing vegetation and roots. Some sand. Moist. Spongy. Black. PEAT.		
1	0.5			Gravelly, SILT/CLAY matrix. Moist. Medium plasticity. Firm. Subangular to subrounded clasts up to coarse gravel size. Dark brown. TILL.		
3	1.0					
4						TP06-21 @ 4'
5	1.5			Gravelly, SILT/CLAY matrix with trace amounts of coal. Very moist. Stiff. Medium plasticity. Rounded coarse gravel and cobble sized clasts. Poorly graded. Dark brown. TILL.		
7	2.0					
8	2.5					
9						TP06-21 @ 9'
10	3.0					
11				End of test pit at 3.4 m/11.2 ft		
12	3.5					
13	4.0					
15	4.5					
16						

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP06-21

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP06-21

Rev. 0 - Issued for Report

TEST PIT TESTPIT.GPJ TESTPIT.GDT 27 Jun 06

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Date Revised: 4 May 06

B3-17

Project: Morrison Copper Gold Project
Contractor: BABINE BARGE
Location: SOUTH EMBANKMENT
Coordinates 6,123,214 m N, 671,481 m E
(NAD 83- Zone 10)

Test Pit: TP06-22
Equipment Used: CAT 320LME
Total Depth: 3.4 m/ 11.2 ft

Page 1 of 1
Date Started: 5 Apr 06
Date Completed: 5 Apr 06
Logged by: JV
Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
0				Sandy SILT/CLAY with organics. Moist. Firm. Brown. TILL.		
4	1.0	X				TP06-22 @ 4'
4				Gravelly, SILT/CLAY matrix. Moist. Stiff. Well graded up to cobble size. Dark brown. TILL.		
7	2.0	X				TP06-22 @ 5-11'
11	3.5			End of test pit at 3.4 m/11.2 ft		

TEST PIT TESTPIT.GPJ TESTPIT.GDT 27 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP06-22

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP06-22

Rev. 0 - Issued for Report

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Date Revised: 4 May 06

B3-18

Project: Morrison Copper Gold Project
Contractor: BABINE BARGE
Location: SOUTH EMBANKMENT
Coordinates 6,123,018 m N, 671,384 m E
(NAD 83- Zone 10)

Test Pit: TP05-23
Equipment Used: CAT 320LME
Total Depth: 3.4 m/ 11.2 ft
Surface Elev.: 972 m/3189.0 ft

Page 1 of 1
Date Started: 25 Nov 05
Date Completed: 25 Nov 05
Logged by: TT
Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
0				Vegetation, moss, roots, rotten trees	Elevations and coordinates were obtained by hand held GPS (Garmin)	
1	0.5			CLAY and GRAVEL (TILL), trace of sandy silt, some rock clasts, subangular, soft, medium plasticity, brown, wet		
3	1.0					TP05-23-1
5	1.5			As above. Very stiff, some lenses of isolated silt		
7	2.0					
8	2.5					TP05-23-2
10	3.0					
11	3.5			End of test pit at 3.4 m/11.2 ft		
13	4.0					
15	4.5					
16						

TEST PIT TESTPIT.GPJ TESTPIT.GDT 9 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP05-23

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP05-23

Rev. 0 - Issued for Report

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Date Revised: 1 Dec 05

B3-19

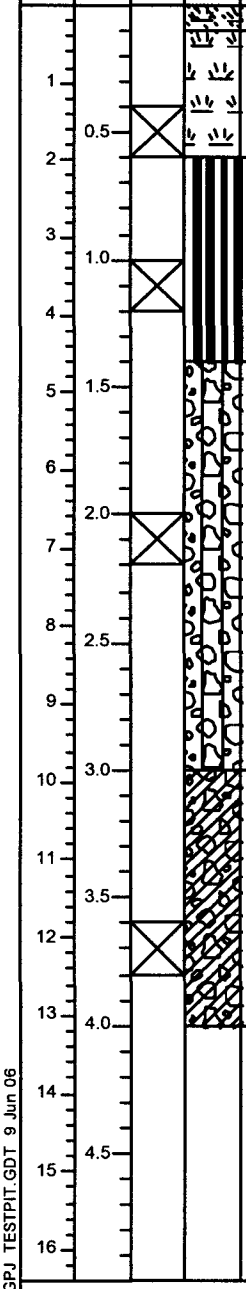
Project: Morrison Copper Gold Project | Test Pit: TP05-24 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 22 Nov 05

Location: PLANT SITE | Total Depth: 4 m/ 13.1 ft | Date Completed: 22 Nov 05

Coordinates 6,119,571 m N, 671,098 m E | Surface Elev.: 844 m/2769.0 ft | Logged by: TT

(NAD 83- Zone 10) | Reviewed by: GJ



MATERIAL DESCRIPTION	NOTES	SAMPLE ID
Topsoil, organics, moss, roots PEAT, black, saturated	Elevations and coordinates were obtained by hand held GPS (Garmin) Excess surface water	TP05-24-1
Lacustrine SILTand CLAY,very fine, soft, white to green, saturated		TP05-24-2
SAND,SILT and GRAVEL, well graded,compact, gray geenish, saturated		TP05-24-3
CLAY and GRAVEL, well graded high plasticity,brown, moist		TP05-24-4
End of test pit at 4 m/13.1 ft		

TEST PIT TESTPIT.GPJ TESTPIT.GDT 9 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP05-24

Knight Piésold CONSULTING | Project No. VA101-102/7 | Ref. No. 1 | Rev. 0

Rev. 0 - Issued for Report | TP05-24

M:\1\01\00102\07\A\DATA\GEOTEC~3\GINT\TESTPIT.GPJ | Date Revised: 1 Dec 05

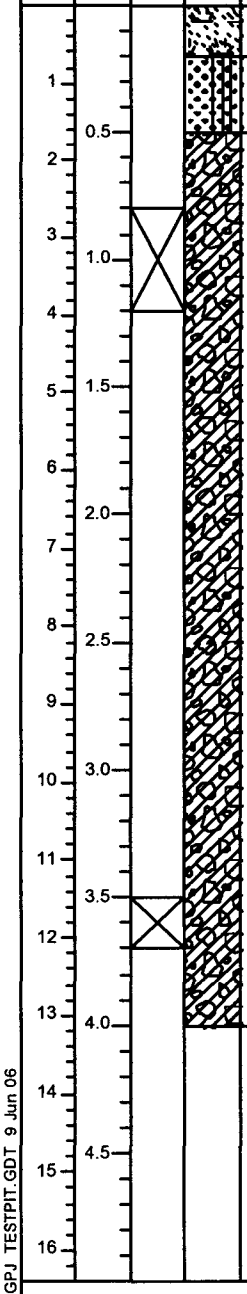
Project: Morrison Copper Gold Project | Test Pit: TP05-25 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 22 Nov 05

Location: PLANT SITE | Total Depth: 4 m/ 13.1 ft | Date Completed: 22 Nov 05

Coordinates 6,119,558 m N, 671,196 m E | Surface Elev.: 843 m/2765.7 ft | Logged by: TT

(NAD 83- Zone 10) | Reviewed by: GJ



MATERIAL DESCRIPTION	NOTES	SAMPLE ID
Topsoil, organics, moss, roots	Elevations and coordinates were obtained by hand held GPS (Garmin)	
SAND and SILT, firm, brown,moist		
CLAY and GRAVEL (TILL), trace of sand/silt, well graded,frequent cobbles, firm, brown, moist		TP05-25-1
very stiff, with increasing lean clay percent		TP05-25-2
End of test pit at 4 m/13.1 ft		

TEST PIT TESTPIT.GPJ TESTPIT.GDT 9 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP05-25

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP05-25

Rev. 0 - Issued for Report

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Date Revised: 1 Dec 05

B3 - 21

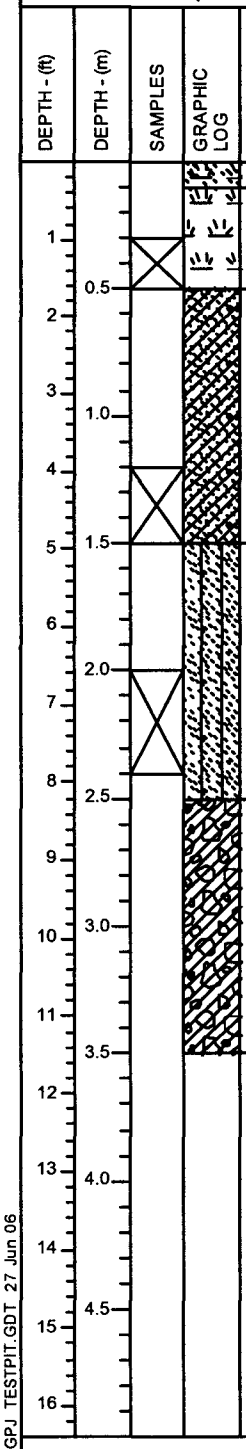
Project: Morrison Copper Gold Project | Test Pit: TP05-26 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 22 Nov 05

Location: PLANT SITE | Total Depth: 3.5 m/ 11.5 ft | Date Completed: 22 Nov 05

Coordinates 6,119,573 m N, 671,304 m E | Surface Elev.: 843 m/2765.7 ft | Logged by: TT

(NAD 83- Zone 10) | Reviewed by: GJ



MATERIAL DESCRIPTION	NOTES	SAMPLE ID
Topsoil, organics, moss, roots	Elevations and coordinates were obtained by hand held GPS (Garmin)	
PEAT organic, black, saturated	Excess surface water	TP05-26-1
Sandy SILT & CLAY, well graded, moderately firm, brown, wet		TP05-26-2
fine SAND and SILT, compact, grey, wet		TP05-26-3
Gravelly CLAY (TILL), stiff, high plasticity, brown, moist		
End of test pit at 3.5 m/11.5 ft		

TEST PIT TESTPIT.GPJ TESTPIT.GDT 27 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP05-26

Knight Piésold CONSULTING | Project No. VA101-102/7 | Ref. No. 1 | Rev. 0

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TP05-26

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Date Revised: 1 Dec 05

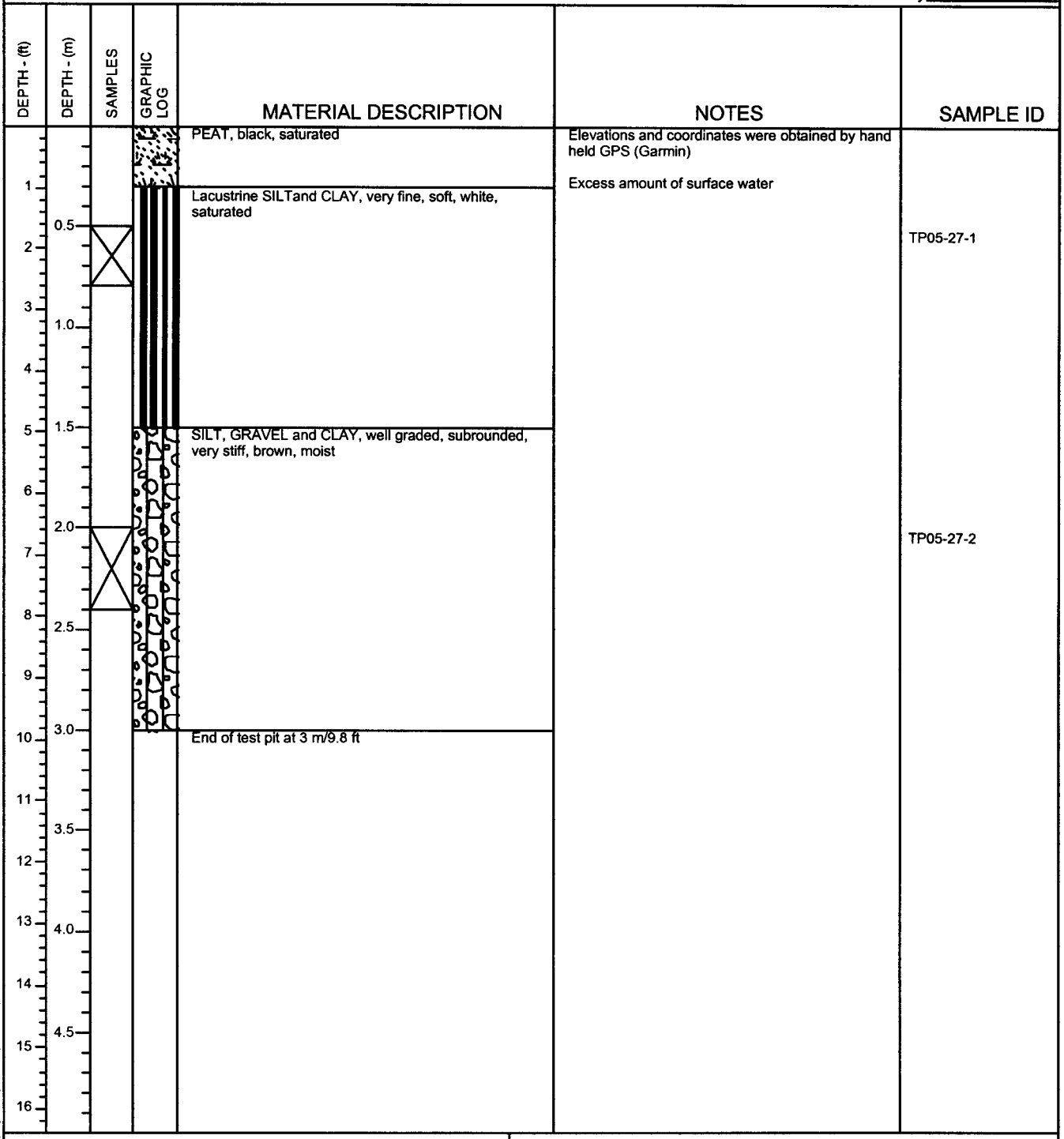
Project: Morrison Copper Gold Project | Test Pit: TP05-27 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 23 Nov 05

Location: PLANT SITE | Total Depth: 3 m/ 9.8 ft | Date Completed: 23 Nov 05

Coordinates 6,119,470 m N, 671,195 m E | Surface Elev.: 838 m/2749.3 ft | Logged by: TT

(NAD 83- Zone 10) | Reviewed by: GJ



Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP05-27

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP05-27

Rev. 0 - Issued for Report

TEST PIT TESTPIT.GPJ TESTPIT.GDT 9 Jun 06

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Date Revised: 1 Dec 05

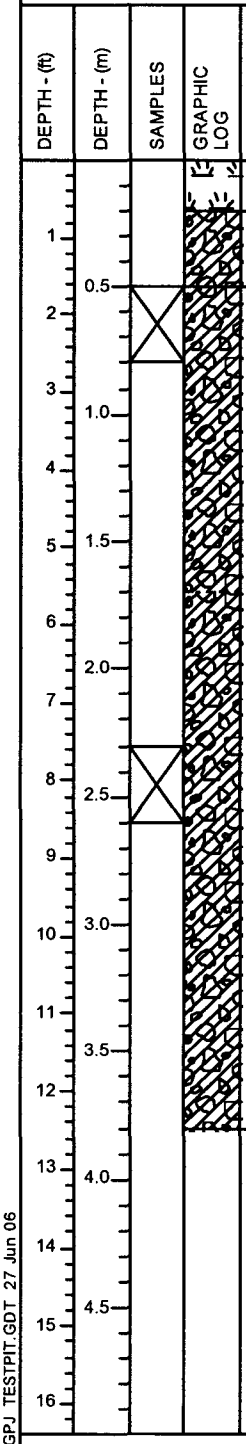
Project: Morrison Copper Gold Project | Test Pit: TP05-28 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 23 Nov 05

Location: PLANT SITE | Total Depth: 3.8 m/ 12.5 ft | Date Completed: 23 Nov 05

Coordinates 6,119,648 m N, 671,169 m E | Surface Elev.: 846 m/2775.6 ft | Logged by: TT

(NAD 83- Zone 10) | Reviewed by: GJ



MATERIAL DESCRIPTION	NOTES	SAMPLE ID
PEAT, Black, moist	Elevations and coordinates were obtained by hand held GPS (Garmin)	
SILT and CLAY some gravel, stiff, high plasticity, brown, moist		
CLAY and GRAVEL (TILL), some sand, with frequent isolated silt lenses, well graded, firm, brown, moist		TP05-28-1
very stiff, frequent cobbles, well graded, brown, moist		TP05-28-2
End of test pit at 3.8 m/12.5 ft		

TEST PIT TESTPIT.GPJ TESTPIT.GDT 27 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP05-28

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP05-28

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Date Revised: 1 Dec 05

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Project: Morrison Copper Gold Project | Test Pit: TP05-33 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 23 Nov 05

Location: CONVEYOR ALIGNMENT | Total Depth: 3.8 m/ 12.5 ft | Date Completed: 23 Nov 05

Coordinates 6,120,552 m N, 671,071 m E | Surface Elev.: 885 m/2903.5 ft | Logged by: TT

(NAD 83- Zone 10) | Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
0				PEAT, black, moist	Elevations and coordinates were obtained by hand held GPS (Garmin)	
1				CLAY and GRAVEL (TILL),trace of silt, firm, medium plasticity,brown, wet		
2	0.5					TP05-33-1
3	1.0					
4				increasing lean clay percent, very stiff, brown		
5	1.5					
6						
7	2.0					
8						
9	2.5					
10						
11	3.0					
12	3.5					TP05-33-2
13				End of test pit at 3.8 m/12.5 ft		
14	4.0					
15						
16	4.5					

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP05-33

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

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TEST PIT TESTPIT.GPJ TESTPIT.GDT 9 Jun 06

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Date Revised: 1 Dec 05

Project: Morrison Copper Gold Project | Test Pit: TP05-34 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 23 Nov 05

Location: CONVEYOR ALIGNMENT | Total Depth: 3.4 m/ 11.2 ft | Date Completed: 23 Nov 05

Coordinates 6,121,500 m N, 671,229 m E | Surface Elev.: 924 m/3031.5 ft | Logged by: TT

(NAD 83- Zone 10) | Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
0	0			Topsoil, organics, moss, roots		
1	0.5			CLAY and GRAVEL (TILL), some sand,well graded, trace of cobbles, brown, moist to wet	Elevations and coordinates were obtained by hand held GPS (Garmin) Perched water encountered @ 0.7m	TP05-34-1
3	1.0			some rock clasts, subangular, stiff, brown, moist		
7	2.0					TP05-34-2
8	2.5					
11	3.5			End of test pit at 3.4 m/11.2 ft		

TEST PIT TESTPIT.GPJ TESTPIT.GDT 9 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP05-34

Knight Piésold CONSULTING | Project No. VA101-102/7 | Ref. No. 1 | Rev. 0

Rev. 0 - Issued for Report | **TP05-34**

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Project: Morrison Copper Gold Project | Test Pit: TP05-35 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 23 Nov 05

Location: CONVEYOR ALIGNMENT | Total Depth: 3.5 m/ 11.5 ft | Date Completed: 23 Nov 05

Coordinates 6,119,978 m N, 670,932 m E | Surface Elev.: 824 m/2703.4 ft | Logged by: TT

(NAD 83- Zone 10) | Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
1				fine SAND, trace of clay, poorly graded, loose, reddish brown, dry	Elevations and coordinates were obtained by hand held GPS (Garmin)	TP05-35-1
2	0.5			CLAY and GRAVEL (TILL), trace of sand, frequent isolated silty lenses, firm, brown, moist		
3	1.0					TP05-35-2
4						
5	1.5			trace of cobbles, very stiff, brown, moist to dry	Perched water encountered @ 1.7m	
6						
7	2.0					
8						
9	2.5					TP05-35-3
10	3.0					
11						
12	3.5			End of test pit at 3.5 m/11.5 ft		
13	4.0					
14						
15	4.5					
16						

TEST PIT TESTPIT.GPJ TESTPIT.GDT 9 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP05-35

Knight Piésold CONSULTING | Project No. VA101-102/7 | Ref. No. 1 | Rev. 0

Rev. 0 - Issued for Report | **TP05-35**

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Project: Morrison Copper Gold Project | Test Pit: TP06-37 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 28 Jan 06

Location: PLANT SITE | Total Depth: 3.2 m/ 10.5 ft | Date Completed: 28 Jan 06

Coordinates 6,119,671 m N, 671,073 m E | Surface Elev.: 845 m/2772.3 ft | Logged by: TT

(NAD 83- Zone 10) | Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
0				Topsoil, organic, brown		
1	0.5			Gravelly SAND, trace silt, moderately dense, brown, moist		
3	1.0			Sandy silty CLAY (Till), trace of gravel and cobbles, stiff, brown, dry		TP06-37-1
5	1.5			CLAY & GRAVEL (Till), lenses of silt, stiff, brown, dry		
7	2.0					TP06-37-2
8	2.5					
10	3.0			End of test pit at 3.2 m/10.5 ft		
11	3.5					
12						
13	4.0					
14						
15	4.5					
16						

TEST PIT TESTPIT.GPJ TESTPIT.GDT 27 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP06-37

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP06-37

Rev. 0 - Issued for Report

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Date Revised: 28 Jan 06

B3-28

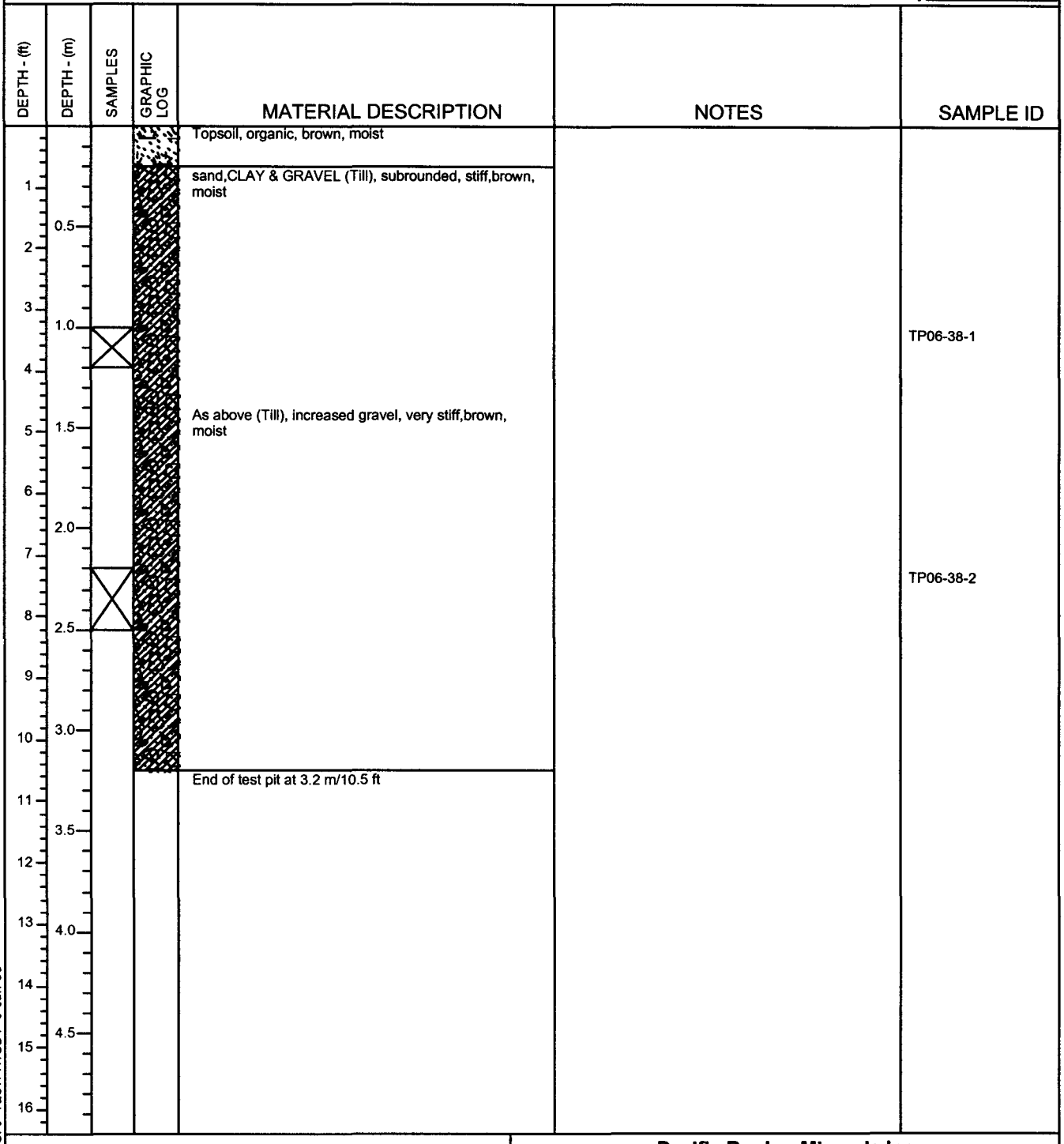
Project: Morrison Copper Gold Project | Test Pit: TP06-38 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 28 Jan 06

Location: PLANT SITE | Total Depth: 3.2 m/ 10.5 ft | Date Completed: 28 Jan 06

Coordinates 6,119,671 m N, 671,173 m E | Surface Elev.: 845 m/2772.3 ft | Logged by: TT

(NAD 83- Zone 10) | Reviewed by: GJ



TEST PIT TESTPIT.GPJ TESTPIT.GDT 9 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP06-38

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP06-38

Rev. 0 - Issued for Report

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Date Revised: 28 Jan 06

B3-29

Project: Morrison Copper Gold Project | Test Pit: TP06-39 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 28 Jan 06

Location: PLANT SITE | Total Depth: 3.2 m/ 10.5 ft | Date Completed: 28 Jan 06

Coordinates 6,119,671 m N, 671,273 m E | Surface Elev.: 845 m/2772.3 ft | Logged by: TT

(NAD 83- Zone 10) | Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
0				Topsoil, organic, brown		
1				CLAY & GRAVEL (Till), subrounded, moderately soft,brown, wet	perched water at 0.8m wall collapsed	
2	0.5	X				TP06-39-1
3	1.0					
4				SAND & GRAVEL, some clay, dense, brown, wet		
5	1.5	X				TP06-39-2
6				CLAY & GRAVEL (Till), gravels are subrounded, stiff, brown, moist		
7	2.0					
8	2.5					
9						
10	3.0	X				TP06-39-3
11				End of test pit at 3.2 m/10.5 ft		
12	3.5					
13	4.0					
14						
15	4.5					
16						

TEST PIT TESTPIT.GPJ TESTPIT.GDT 9 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP06-39

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP06-39

Rev. 0 - Issued for Report

M:\1\01\00102\07\A\DATA\GEOTEC~3\GINT\TESTPIT.GPJ

Date Revised: 28 Jan 06

B3-30

Project: Morrison Copper Gold Project | Test Pit: TP06-40 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 28 Jan 06

Location: PLANT SITE | Total Depth: 3.2 m/ 10.5 ft | Date Completed: 28 Jan 06

Coordinates 6,119,720 m N, 671,175 m E | Surface Elev.: 846 m/2775.6 ft | Logged by: TT

(NAD 83- Zone 10) | Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
1	0.5			Topsoil, organic, brown		
2		X		CLAY & GRAVEL (TILL), some sand,soft,reddish-brown, moist		TP06-40-1
3	1.0			As above (Till), trace of cobbles +35", stiff, brown, moist		
4						
5	1.5					
6						
7	2.0					
8						
9	2.5					
10	3.0			End of test pit at 3.2 m/10.5 ft		
11						
12	3.5					
13						
14	4.0					
15	4.5					
16						

TEST PIT TESTPIT.GPJ TESTPIT.GDT 9 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP06-40

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP06-40

Rev. 0 - Issued for Report

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Date Revised: 28 Jan 06

B3-31

Project: Morrison Copper Gold Project | Test Pit: TP06-41 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 7 Apr 06

Location: GRAVEL PIT | Total Depth: 3.4 m/ 11.2 ft | Date Completed: 7 Apr 06

Coordinates 6,118,176 m N, 671,667 m E | Logged by: JV

(NAD 83- Zone 10) | Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
1				Gravelly SAND. Slightly moist. Loose. ALLUVIUM?		
2	0.5			Silty SAND with trace gravel. Slightly moist. Compact. Very poorly graded. Reddish brown. ALLUVIUM?		
3		X				TP06-41 @ 2.5'
4	1.0					
5	1.5			Gravelly, silty SAND. Moist. Coarse gravel with fine sand. Poorly graded. Dense. ALLUVIUM?		
6						
7	2.0					
8		X				TP06-41 @ 8'
9	2.5					
10						
11	3.0					
12	3.5			End of test pit at 3.4 m/11.2 ft		
13						
14	4.0					
15	4.5					
16						

TEST PIT TESTPIT.GPJ TESTPIT.GDT 27 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP06-41

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP06-41

Rev. 0 - Issued for Report

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Date Revised: 4 May 06

B3-32

Project: Morrison Copper Gold Project

Contractor: BABINE BARGE

Location: GRAVEL PIT

Coordinates 6,118,189 m N, 671,569 m E

(NAD 83- Zone 10)

Test Pit: TP06-42

Equipment Used: CAT 320LME

Total Depth: 3.7 m/ 12.1 ft

Page 1 of 1

Date Started: 7 Apr 06

Date Completed: 7 Apr 06

Logged by: JV

Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
0				Sandy organic soil. Slightly moist. Loose. Reddish brown. ALLUVIUM?		
1				Gravelly SAND with some silt. Moist. Compact. Well graded. Reddish brown. ALLUVIUM?		
2	0.5					
3		X				TP06-42 @ 3'
4	1.0			Silty SAND with some gravel and trace clay. Slightly moist. Compact. Reddish brown. ALLUVIUM?		
5	1.5					
6						
7	2.0					
8						
9	2.5	X				TP06-42 @ 9'
10						
11	3.0					
12	3.5			End of test pit at 3.7 m/12.1 ft		
13						
14	4.0					
15	4.5					

Test Pit Log for TP06-42

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP06-42

Rev. 0 - Issued for Report

TEST PIT TEPIT.GDT 27 Jun 06

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Date Revised: 4 May 06

B3 - 33

Project: Morrison Copper Gold Project | Test Pit: TP06-43 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 7 Apr 06

Location: GRAVEL PIT | Total Depth: 3 m/ 9.8 ft | Date Completed: 7 Apr 06

Coordinates 6,118,284 m N, 671,695 m E | Logged by: JV

(NAD 83- Zone 10) | Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
0	0			Sandy GRAVEL with some boulders. Dry. Loose. ALLUVIUM?		
1	0.5			Silty SAND with some gravel. Slightly moist. Compact. Fine sand and coarse gravel. Poorly graded. Reddish brown. ALLUVIUM?		
3	1.0	X				TP06-43 @ 4'
5	1.5			Silty SAND with some gravel. Moist. Compact. Reddish brown. ALLUVIUM?		
7	2.0					
8	2.5	X				TP06-43 @ 8'
10	3.0			End of test pit at 3 m/9.8 ft	Hit large boulder or bedrock.	
11	3.5					
13	4.0					
15	4.5					
16						

TEST PIT TESTPIT.GPJ TESTPIT.GDT 9 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP06-43

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP06-43

Rev. 0 - Issued for Report

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Date Revised: 4 May 06

Project: Morrison Copper Gold Project | Test Pit: TP06-44 | Page 1 of 1

Contractor: BABINE BARGE | Equipment Used: CAT 320LME | Date Started: 7 Apr 06

Location: GRAVEL PIT | Total Depth: 3.4 m/ 11.2 ft | Date Completed: 7 Apr 06

Coordinates 6,118,074 m N, 671,594 m E | Logged by: JV

(NAD 83- Zone 10) | Reviewed by: GJ

DEPTH - (ft)	DEPTH - (m)	SAMPLES	GRAPHIC LOG	MATERIAL DESCRIPTION	NOTES	SAMPLE ID
1				Silty SAND with some gravel. Slightly moist. Compact to dense. Gravel increasing in size with depth, from fine gravel near surface to coarse gravel/small cobble size near bottom. Reddish brown. ALLUVIUM?		
2	0.5					
3						TP06-40 @ 3'
4	1.0					
5	1.5					
6						
7	2.0					
8						
9	2.5					TP06-40 @ 9'
10						
11	3.0			End of test pit at 3.4 m/11.2 ft		
12	3.5					
13						
14	4.0					
15	4.5					
16						

TEST PIT TESTPIT.GPJ TESTPIT.GDT 9 Jun 06

Pacific Booker Minerals Inc.
Morrison Copper Gold Project
Test Pit Log For TP06-44

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-102/7	1	0

TP06-44

Rev. 0 - Issued for Report

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Date Revised: 4 May 06

B3-35

APPENDIX IV

KCBL 2008 Geotechnical Site Investigation and Tailings Testing Data

2008 Geotechnical Site Investigation

- 2008 Drill hole and Test Pit Logs
- Index Test Results

Tailings Testing

- 1-D Consolidation Test
- Grain Size Distributions (Hydrometer)
- Compaction Test ("Cycloned" Sand)
- Jar Settling Tests
- Specific Gravity of Solids

2007 Geotechnical Site Investigation

DRILL HOLE LOG

STARTED: Sep 12, 2008 **FINISHED:** Sep 13, 2008

DRILL METHOD: ODEX 90 Air Rotary

GROUND ELEV. (m): 819.00

COORDINATES (m): N 6120064 E 670403

Su - kPa: 20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB
VANE REMOLD ◇ FIELD □ LAB
▲ UC/2
△ P.PEN/2
★ % FINES
● SPT N
W_P% W% W_L%
20 40 60 80

DEPTH (m)	SPT BLOWS PER 0.15m	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
0					Sandy Lean CLAY (CL), trace gravel to gravelly, very stiff, brown with orange mottles, moist; TILL	
1	9, 10, 11, 12	SPT-1				
2					Trace fine subangular gravel, maximum size 4.75 mm; intermediate plasticity, medium toughness, slow dilatancy and high dry strength, moist; brown; strong reaction with HCL.	
3	11, 14, 22, 19.	SPT-2				
		SH-1	50%		Trace gravel, intermediate plasticity, very stiff to hard.	
4		SH-2	90%			
	23, 38+ Refusal	SPT-3	85%			
5						
6	7, 11, 12, 18.	SPT-4	5%		Trace cobbles and boulders, some gravels; very stiff, dark brown; intermediate plasticity, gravel fragments are bluish grey (likely to be cobbles and boulders).	
7						
8	11, 16, 16, 22.	SPT-5	95%		Some fine subrounded gravel, maximum size 19.0 mm; intermediate plasticity, hard, medium toughness, slow dilatancy and high dry strength, moist; brown; weak to strong reaction with HCL.	
9	7, 13, 16, 24.	SPT-6	100%			
10					Continued Next Page	

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper/Gold

LOCATION: Morrison Lake, BC

LOGGED BY: GA **CHECKED BY:**

SHEET 1 **OF** 3 **HOLE NO.:** DH08-1A

KCBL_DRILL_HOLE-SI 2008 DRILLING-DH SOIL LOG.GPJ KC_DATA.GDT 12/5/08

DRILL HOLE LOG

STARTED: Sep 12, 2008 **FINISHED:** Sep 13, 2008

DRILL METHOD: ODEX 90 Air Rotary

GROUND ELEV. (m): 819.00

COORDINATES (m): N 6120064 E 670403

DEPTH (m)	SPT BLOWS PER 0.15m	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
11	17, 30, 20, 24	SPT-7	96%		Trace fine subangular gravel, maximum size 9.5 mm; intermediate plasticity, hard, medium toughness, slow dilatancy and high dry strength, moist; brown; weak to strong reaction with HCL.	
12	10, 10, 14, 23	SPT-8	32%			
13		SH-3	15%			
14	9, 8, 10, 37+	SPT-9	96%		14.17 804.83 Bedrock. Bluish-grey, slightly weathered, strong, fine grained sandstone.	
15						
16						
17						
18						
19						
20						

Continued Next Page

Su - kPa

20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB
REMOLD ◇ □
▲ UC/2
△ P.PEN/2

★ % FINES ● SPT N

W_P% W% W_L%

20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper/Gold

LOCATION: Morrison Lake, BC

LOGGED BY: GA **CHECKED BY:**

SHEET 2 **OF** 3 **HOLE NO.:** DH08-1A

DRILL HOLE LOG

STARTED: Sep 12, 2008 **FINISHED:** Sep 13, 2008

DRILL METHOD: ODEX 90 Air Rotary

GROUND ELEV. (m): 819.00

COORDINATES (m): N 6120064 E 670403

DEPTH (m)	SPT BLOWS PER 0.15m	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
					20.12 798.88 End of Hole at 20.10 m	

Su - kPa
20 60 100 140 180
VANE PEAK ◆ FIELD ■ LAB
REMOLD ◇ □
▲ UC/2
△ P.PEN/2
★ % FINES ● SPT N
W_P% W% W_L%
× – – – – ○ – – – – ×
20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper/Gold

LOCATION: Morrison Lake, BC

LOGGED BY: GA **CHECKED BY:**

SHEET 3 **OF** 3 **HOLE NO.:** DH08-1A

KCBL_DRILL_HOLE-SI 2008 DRILLING-DH SOIL LOG.GPJ KC_DATA.GDT 12/5/08

DRILL HOLE LOG

STARTED: Sep 13, 2008 **FINISHED:** Sep 13, 2008

DRILL METHOD: ODEX 90 Air Rotary

GROUND ELEV. (m): 819.00

COORDINATES (m): N 6120064 E 670403

DEPTH (m)	SPT BLOWS PER 0.15m	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT	DETAILS
0					Sandy Lean CLAY, gravelly; stiff; low plasticity; brown with orange mottles, moist, TILL.		
1							
2							
3							
4					Trace gravel; brown, intermediate plasticity.		
5							
6					Trace cobbles and boulders; dark brown; intermediate plasticity, moist, gravel fragments are bluish grey (likely to be cobbles and boulders).		
7							
8							
9							
10					Continued Next Page		

Su - kPa

20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB
REMOLD ◇ □
▲ UC/2
△ P.PEN/2

★ % FINES ● SPT N

W_P% W% W_L%

× – – – – ○ – – – – ×

20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper/Gold

LOCATION: Morrison Lake, BC

LOGGED BY: GA **CHECKED BY:**

SHEET 1 **OF** 2 **HOLE NO.:** DH08-1B

KCBL_DRILL_HOLE-SI 2008 DRILLING-DH SOIL LOG.GPJ KC_DATA.GDT 12/5/08

DRILL HOLE LOG

STARTED: Sep 13, 2008 **FINISHED:** Sep 13, 2008

DRILL METHOD: ODEX 90 Air Rotary

GROUND ELEV. (m): 819.00

COORDINATES (m): N 6120064 E 670403

DEPTH (m)	SPT BLOWS PER 0.15m	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
11						
12						
					12.80 / 806.20 End of Hole at 12.80 m	
13					Soil data inferred from adjacent drill hole DH08-1A.	
14						
15						
16						
17						
18						
19						
20						

Su - kPa

20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB
REMOLD ◇ □
▲ UC/2
△ P.PEN/2

★ % FINES ● SPT N

W_P% W% W_L%

× – – – – ○ – – – – ×

20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper/Gold

LOCATION: Morrison Lake, BC

LOGGED BY: GA **CHECKED BY:**

SHEET 2 **OF** 2 **HOLE NO.:** DH08-1B

KCBL_DRILL_HOLE-SI 2008 DRILLING-DH SOIL LOG.GPJ KC_DATA.GDT 12/5/08

DRILL HOLE LOG

STARTED: Sep 13, 2008 **FINISHED:** Sep 15, 2008

DRILL METHOD: ODEX 90 Air Rotary

GROUND ELEV. (m): 796.00

COORDINATES (m): N 6120472 E 669743

Su - kPa: 20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB ▲ UC/2 △ P.PEN/2

REMOLD ◇ □

★ % FINES ● SPT N

W_P% W% W_L%: 20 40 60 80

DEPTH (m)	SPT BLOWS PER 0.15m	SAMPLE TYPE	SAMPLE No.	DESCRIPTION OF MATERIALS
				Natural ground was stripped for drilling.
1	8, 13, 12, 16	SPT-1	59.6%	Sandy Lean CLAY (CL), trace gravel, CL, very stiff, brown, TILL
2	9, 18, 21, 21	SPT-2	66.7%	Trace fine subangular gravel, maximum size 9.5 mm; intermediate plasticity, medium toughness, slow dilatancy and high dry strength, moist; brown; firm, strong reaction with HCl.
2.75 / 793.25				Clayey SAND (SC), some gravel, well graded, very dense, brown to reddish brown, moist, massive, TILL.
3	10, 21, 37, 21	SPT-3	100%	Boulder at about 3m in depth,
4				
5	6, 11, 14, 20	SPT-4	91.7%	Compact, grey
				Boulder at 5.5 to 5.8m.
6.26 / 789.74	42, 29, 66, refusal	SPT-5	56.3%	Coarse to fine subangular gravel, some silt, maximum size 38.2 mm; none to low plasticity, very dense, low toughness, rapid dilatancy and low dry strength, moist; dark grey; weak reaction with HCL.
7				Note: 1. Pocket penetrometer readings larger than 200 kPa is shown as 200 kPa
8				BEDROCK. Black, slightly weathered to fresh; very strong strength; very fine grained, coarse particle zone at 7.9 m, 0.75 m long; 1 mm fracture, infilled with calcite / pyrite, chlorite? one joint set, 80~90 degree to the core axis; smooth, planar, few undulating, possibly slickensided, medium spacing (20 cm ~ 50 cm), mineralized, metamorphosed shale?
9				TCR =100%, SCR = 99%, RQD = 95%
10				One set shear zone at 9.9 m, 10 degree to the core axis; An undulating joint at 10.67 m, 35 degree to the core axis, no infilling.

Continued Next Page

INSTRUMENT DETAILS

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper/Gold

LOCATION: Morrison Lake, BC

LOGGED BY: WD **CHECKED BY:**

SHEET 1 **OF** 2 **HOLE NO.:** DH08-2

KCBL_DRILL_HOLE-SI 2008 DRILLING-DH SOIL LOG.GPJ KC_DATA.GDT 12/5/08

DRILL HOLE LOG

STARTED: Sep 13, 2008 **FINISHED:** Sep 15, 2008

DRILL METHOD: ODEX 90 Air Rotary

GROUND ELEV. (m): 796.00

COORDINATES (m): N 6120472 E 669743

DEPTH (m)	SPT BLOWS PER 0.15m	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
					TCR =100%, SCR = 97%, RQD = 62.5%	
11					A fracture zone at 12.0 m to 12.3 m (possibly drilling induced) and a joint at 11.6 m about 15 degree to the core axis.	
					TCR =100%, SCR = 46%, RQD = 31%	
12						
					12.30 / 783.70 End of Hole at 12.30 m	
13						
14						
15						
16						
17						
18						
19						
20						

Su - kPa

20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB
REMOLD ◇ □
▲ UC/2
△ P.PEN/2

★ % FINES ● SPT N

W_P% W% W_L%

× – – – – ○ – – – – ×

20 40 60 80

PROJECT NO.: M09382A01

PROJECT: Morrison Copper/Gold

LOCATION: Morrison Lake, BC

LOGGED BY: WD **CHECKED BY:**

SHEET 2 **OF** 2 **HOLE NO.:** DH08-2

Klohn Crippen Berger

KCBL_DRILL_HOLE-SI 2008 DRILLING-DH SOIL LOG.GPJ KC_DATA.GDT 12/5/08

Rescan Environmental Services Ltd.
Sixth Floor - 1111 West Hastings Street
Vancouver, BC, V6E 2J3
Telephone: (604) 689 9460
Fax: (604) 687 4277

WELL NUMBER DH08-03

CLIENT Pacific Booker **PROJECT NAME** Morrison

PROJECT NUMBER 0793-00113 **PROJECT LOCATION**

DATE STARTED 10/5/08 **COMPLETED** 10/8/08 **GROUND ELEVATION** 833 m **HOLE SIZE** OB = 11.43 cm, BR = 9.6 cm

DRILLING CONTRACTOR GeoTech Drilling Services Ltd. **GROUND WATER LEVELS:**

DRILLING METHOD HQ3 Diamond Drilling (Simco Explorer) **AT TIME OF DRILLING** ---

LOGGED BY R.S. (GeoSim Services) **CHECKED BY** **AT END OF DRILLING** ---

NOTES **AFTER DRILLING** 8.60 m / Elev 840.04 m

DEPTH (m)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	GRAPHIC LOG	MATERIAL DESCRIPTION	Elevation (masl)
				0 - 4.42 m: Overburden: SAND and GRAVEL (max. particle size = 50 mm), well graded, loose, flat and elongated, angular, brown, moist (Note: overburden disturbed by excavation; Outcropping frequent)	
4.42					836.62
5	RC 1	100 (66)		4.42 - 15.86 m: Biotite Feldspar Porphyry, well defined porphyry txture (fp + bi) in gray groundmass partially altered to cl+ser, comptent, weakly fractured, good recovery, 9.0 m cp-bo-cv on fracture	
	RC 2	100 (97)			
	RC 3	100 (100)			
10	RC 4	100 (90)			
	RC 5	100 (100)			
	RC 6	100 (92)			
	RC 7	100 (94)			
15	RC 8	100 (90)			
15.86					845.99
	RC 9	100 (100)		15.86 - 22.0 m: Sandstone, fine - med grained	
	RC 10	100 (93)			
	RC 11	50 (50)			
	RC 12	100 (85)			
20	RC 13	100 (91)			
	RC 14	96 (96)			
22.00					851.02
	RC 15	100 (100)		22.0 - 29.0 m: Wacke, contact gradational, med to coarse wacke with fragments 0.5 - 1 cm (clast supported)	
	RC 16	100 (100)			
25	RC 17	96 (78)			
	RC 18	100 (100)			
	RC 19	100 (100)			
	RC 20	100 (94)			
29.00					856.76
30	RC 21	100 (98)			

WELL DIAGRAM
Casing Top Elev: 833 (m)
Casing Type: 1" sched 40 PVC

0 - 53.34 m:Bentonite Grout

MORRISON PROJECT 2008 MONITORING WELLS.GPJ GINT STD CANADA.GDT 10/28/08

(Continued Next Page)

Rescan Environmental Services Ltd.
Sixth Floor - 1111 West Hastings Street
Vancouver, BC, V6E 2J3
Telephone: (604) 689 9460
Fax: (604) 687 4277

WELL NUMBER DH08-03

CLIENT Pacific Booker **PROJECT NAME** Morrison

PROJECT NUMBER 0793-00113 **PROJECT LOCATION**

DEPTH (m)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	GRAPHIC LOG	MATERIAL DESCRIPTION	Elevation (masl)	WELL DIAGRAM
	RC 22	100 (96)				
	RC 23	100 (96)				
	RC 24	100 (98)				
35	RC 25	90 (84)				
	RC 26	100 (94)				
	RC 27	100 (96)				
40	RC 28	100 (93)				
	RC 29	100 (100)				
	RC 30	100 (100)		29.0 - 55.17 m: Biotite Feldspar Porphyry, greenish-gray groundmass with white fp phenocrysts (0.2 - 0.5 cm), mafics mostly altered to cl with minor epidote. Note: 33m ca veinlet (1 cm), 37.64 - 39.4 m ca stringer, 39.4 m fault gouge, 39.4 - 43. 2 m bleached interval - mafics completely destroyed, 42.41 m ca veinlet with coarse pyroxend or actinolite crystals, 40.6 m ca veinlet *(continued)*		
	RC 31	93 (66)				
45	RC 32	100 (92)				
	RC 33	100 (82)				
	RC 34	100 (66)				
50	RC 35	100 (75)				
	RC 36	100 (62)				
	RC 37	100 (81)				
55	RC 38	100 (100)		55.17	878.19	

Bottom of hole at 55.17 m.

53.34 - 55.17 m: 8/16 sandpack
54.17 - 55.17 m: 0.10 slotted PVC

MONITORING WELL LOG

STARTED: Sep 15, 2008 **FINISHED:** Sep 19, 2008

DRILL METHOD: ODEX 90 Air Rotary

GROUND ELEV. (m): 839.00

COORDINATES (m): N 6119626 E 671032

DEPTH (m)	SPT BLOWS PER 0.15m	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
1	9, 10, 12, 17	SPT-1	68.7%		Clayey SAND (SC), some gravel. Well graded, compact, greyish brown, moist, massive, TILL Ground stripping depth 0 m at the west entrance to 0.9m at the east end of the site. Assume the stripping depth at drilling location: 0.6m (it's not included in the depth shown below). Exposed material: Clayey SAND, some gravel, compact, brown, dry to moist, massive, medium dry strength.	
2	5, 11, 15, 23	SPT-2	68.7%		Some fine to coarse subangular gravel, maximum size 38.2 mm; intermediate plasticity, compact, medium toughness, slow dilatancy and medium dry strength, moist; brown; weak reaction with HCL.	
3						
4						
5	6, 10, 13, 17	LPT-3	73.6%		Max. size gravel in the spoon: 3.5 cm.	
6						
7					Shelby tube sampling failed at 7.0m	
8	3, 9, 15, 18	LPT-4	100%		Two highly weathered, greenish and white zones. A 5 cm rock stuck at the bottom of the sampler tip.	
9						
10					Continued Next Page	

Su - kPa

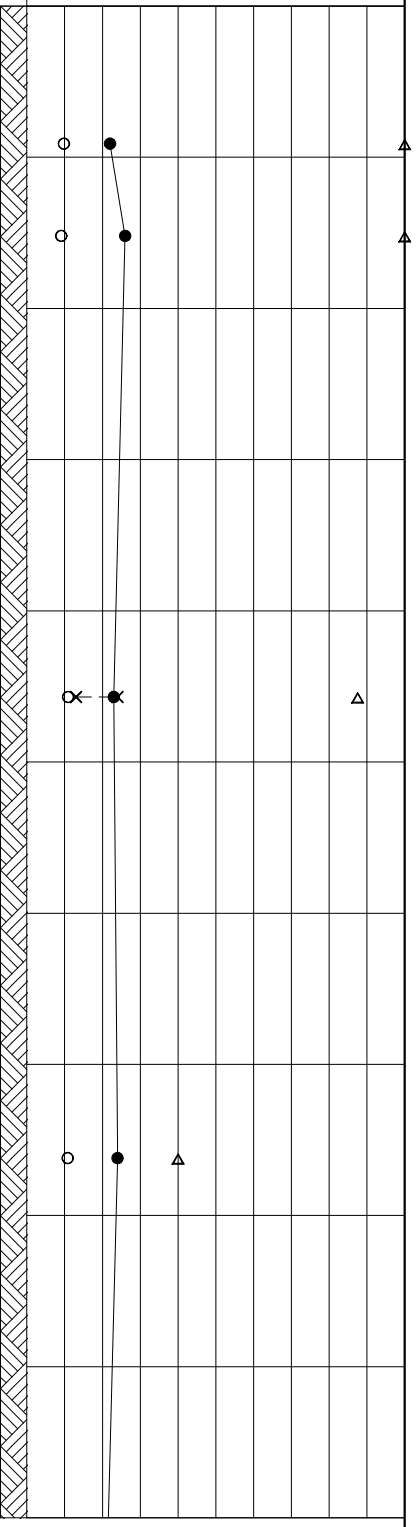
20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB
REMOLD ◇ □
▲ UC/2
△ P.PEN/2

★ % FINES ● SPT N

W_P% W% W_L%

20 40 60 80



Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper/Gold

LOCATION: Morrison Lake, BC

LOGGED BY: WD **CHECKED BY:**

SHEET 1 **OF** 6 **HOLE NO.:** MW08-1

KCBL_MONITORING_WELL-SI 2008 DRILLING-MW SOIL LOG.GPJ KC_DATA.GDT 12/5/08

MONITORING WELL LOG

STARTED: Sep 15, 2008 **FINISHED:** Sep 19, 2008

DRILL METHOD: ODEX 90 Air Rotary

GROUND ELEV. (m): 839.00

COORDINATES (m): N 6119626 E 671032

DEPTH (m)	SPT BLOWS PER 0.15m	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
11	4, 9, 12, 15	LPT-5	100%		Trace fine subangular gravel, maximum size 19.0 mm; intermediate plasticity, compact, medium toughness, slow dilatancy and high dry strength, moist; brown; weak to strong reaction with HCL.	
14	8, 11, 13, 18	LPT-6	100%			
17	4, 10, 13, 24	LPT-7	100%		Max. size gravel in the spoon: 3.5 cm	

Continued Next Page

Su - kPa

20 60 100 140 180

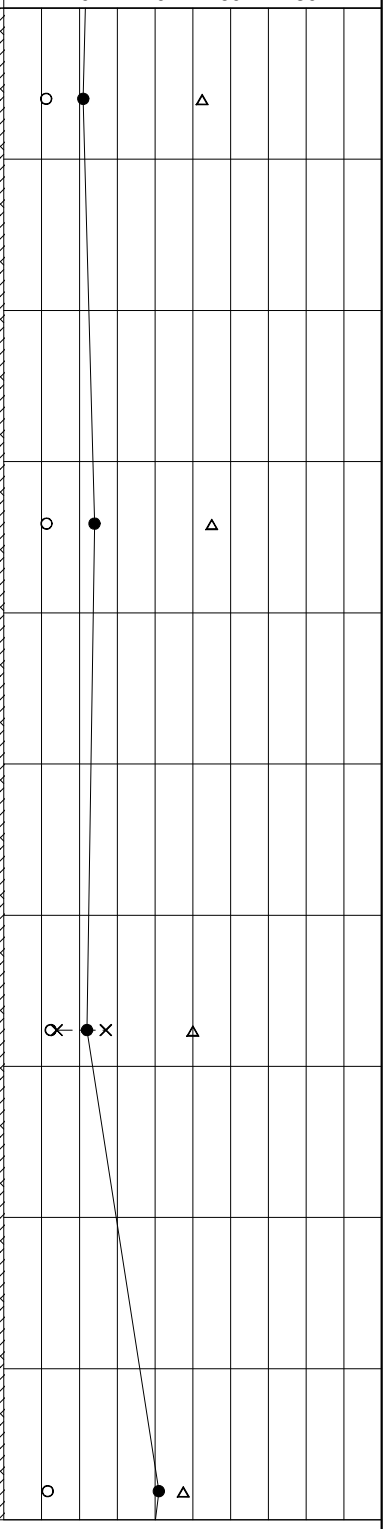
VANE PEAK ◆ FIELD ■ LAB
REMOLD ◇ □
▲ UC/2
△ P.PEN/2

★ % FINES ● SPT N

W_P% W% W_L%

× – – – – ○ – – – – ×

20 40 60 80



Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper/Gold

LOCATION: Morrison Lake, BC

LOGGED BY: WD **CHECKED BY:**

SHEET 2 **OF** 6 **HOLE NO.:** MW08-1

MONITORING WELL LOG

STARTED: Sep 15, 2008 **FINISHED:** Sep 19, 2008

DRILL METHOD: ODEX 90 Air Rotary

GROUND ELEV. (m): 839.00

COORDINATES (m): N 6119626 E 671032

DEPTH (m)	SPT BLOWS PER 0.15m	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
21	6, 13, 28, 26	LPT-8	100%		Coarse to fine sand, trace fine subangular gravel, maximum size 9.5 mm; intermediate plasticity, dense, medium toughness, slow to rapid dilatancy and medium to high dry strength, moist; brown; soft; weak reaction with HCL.	
22						
23	6, 12, 15, 31	LPT-9	100%		Max. size gravel in the spoon: 4 cm	
24		Shelby				
25						
26						
27					Max. size gravel in the spoon: 3.5 cm	
28	16, 15, 13, 16	LPT-10	100%			
29						
30					Continued Next Page	

Su - kPa

20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB ▲ UC/2

REMOLD ◇ □ △ P.PEN/2

★ % FINES ● SPT N

W_P% W% W_L%

× – – – – ○ – – – – ×

20 40 60 80

PROJECT NO.: M09382A01

PROJECT: Morrison Copper/Gold

LOCATION: Morrison Lake, BC

LOGGED BY: WD **CHECKED BY:**

SHEET 3 **OF** 6 **HOLE NO.:** MW08-1

Klohn Crippen Berger

KCBL_MONITORING_WELL-SI 2008 DRILLING-MW SOIL LOG.GPJ KC_DATA.GDT 12/5/08

MONITORING WELL LOG

STARTED: Sep 15, 2008 **FINISHED:** Sep 19, 2008

DRILL METHOD: ODEX 90 Air Rotary

GROUND ELEV. (m): 839.00

COORDINATES (m): N 6119626 E 671032

DEPTH (m)	SPT BLOWS PER 0.15m	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
31						
32	9, 14, 19, 20/1 cm	LPT-11	84%		Refusal after sampler 46 cm into soil.	
33						
34						
35						
36						
37	9, 14, 14, 31	LPT-12	100%		Max. size gravel in the spoon: 5 cm, less fine gravels, but more coarse gravels	
38						
39						
40					Continued Next Page	

Su - kPa

20 60 100 140 180

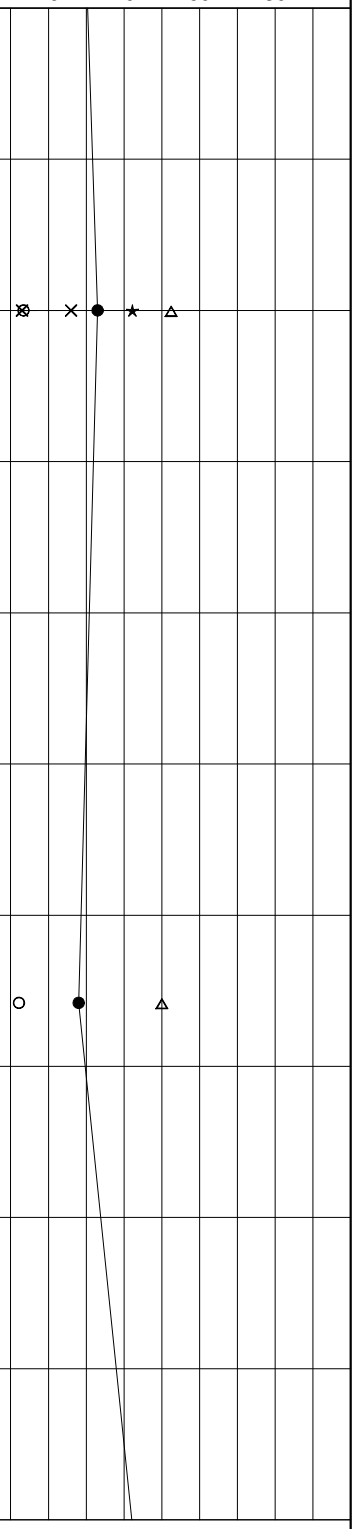
VANE PEAK ◆ FIELD ■ LAB
REMOLD ◇ □
▲ UC/2
△ P.PEN/2

★ % FINES ● SPT N

W_P% W% W_L%

× – – – – ○ – – – – ×

20 40 60 80



Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper/Gold

LOCATION: Morrison Lake, BC

LOGGED BY: WD **CHECKED BY:**

SHEET 4 **OF** 6 **HOLE NO.:** MW08-1

KCBL_MONITORING_WELL-SI 2008 DRILLING-MW SOIL LOG.GPJ KC_DATA.GDT 12/5/08

MONITORING WELL LOG

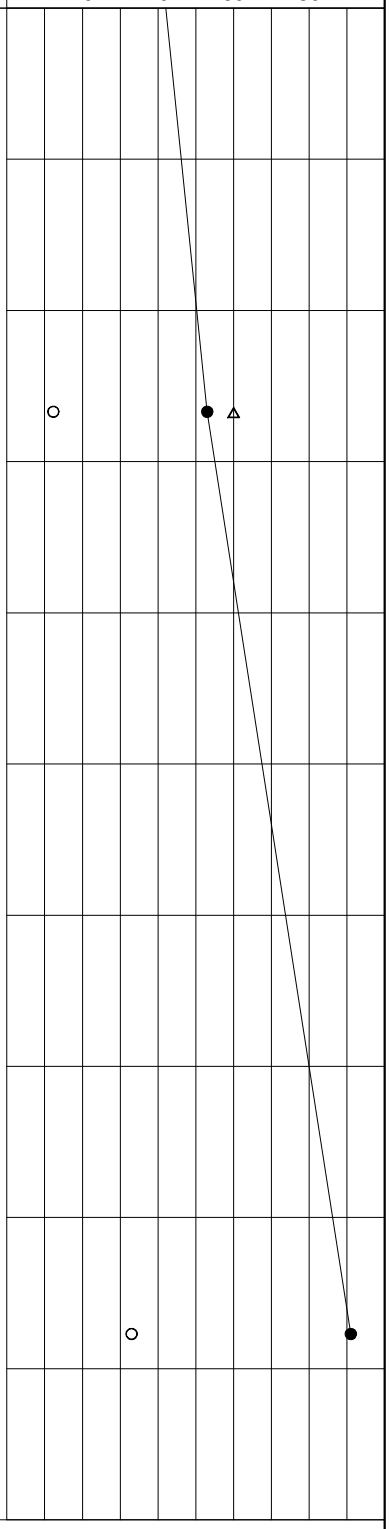
STARTED: Sep 15, 2008 **FINISHED:** Sep 19, 2008

DRILL METHOD: ODEX 90 Air Rotary

GROUND ELEV. (m): 839.00

COORDINATES (m): N 6119626 E 671032

DEPTH (m)	SPT BLOWS PER 0.15m	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
41						
42						
43	13, 14, 39, 17/3 cm	LPT-13	100%		Some fine subangular gravel, maximum size 19.1 mm; intermediate plasticity, very dense, medium toughness, slow dilatancy and medium to high dry strength, moist; brown; weak reaction with HCL.	
44						
45						
46						
47						
48						
49	12, 38, 53, 56	LPT-14	100%		Max. size gravel in the spoon: 4 cm, very dense, brownish grey	
50					Continued Next Page	



Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper/Gold

LOCATION: Morrison Lake, BC

LOGGED BY: WD **CHECKED BY:**

SHEET 5 **OF** 6 **HOLE NO.:** MW08-1

KCBL_MONITORING_WELL-SI 2008 DRILLING-MW SOIL LOG.GPJ KC_DATA.GDT 12/5/08

MONITORING WELL LOG

STARTED: Sep 15, 2008 **FINISHED:** Sep 19, 2008

DRILL METHOD: ODEX 90 Air Rotary

GROUND ELEV. (m): 839.00

COORDINATES (m): N 6119626 E 671032

DESCRIPTION OF MATERIALS

DEPTH (m) | SPT BLOWS PER 0.15m | SAMPLE TYPE | SAMPLE No. | SYMBOL | INSTRUMENT DETAILS

Su - kPa: 20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB ▲ UC/2
REMOLD ◇ □ △ P.PEN/2

★ % FINES ● SPT N

W_P% W% W_L%
× – – – – ○ – – – – ×
20 40 60 80

51 52 53 54 55 56 57 58 59 60

55.88
783.12 Bedrock

End of Hole at 55.88 m

See Rescan Rock Log for Details from 55.9 to 86.2m.

Note:

1. Pocket penetrometer readings larger than 200 kPa is shown as 200 kPa
2. A standpipe monitoring well was installed in bedrock at this drill hole. The details of the standpipe monitoring well shown in this log is the one installed in overburden which is just meters away.
3. The LPT blow counts were converted to SPT blow counts.

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper/Gold

LOCATION: Morrison Lake, BC

LOGGED BY: WD **CHECKED BY:**

SHEET 6 **OF** 6 **HOLE NO.:** MW08-1

KCBL_MONITORING_WELL-SI 2008 DRILLING-MW SOIL LOG.GPJ KC_DATA.GDT 12/5/08

MONITORING WELL LOG

STARTED: Sep 21, 2008 **FINISHED:** Sep 22, 2008

DRILL METHOD: ODEX 90 Air Rotary

GROUND ELEV. (m): 784.00

COORDINATES (m): N 6120820 E 669975

DEPTH (m)	SPT BLOWS PER 0.15m	SAMPLE TYPE	SAMPLE No.	DESCRIPTION OF MATERIALS
				GRAVEL (GW), some sand, trace fines, some cobbles and boulders, max. size: 25 cm, compact, brown, moist to dry.
				2.21 / 781.79 SAND, grey, moist medium sand layer/ pocket. 2.50
				781.50 GRAVEL (GW), some sand, trace fines, max. size: 5 cm, compact, brown, moist, TILL
3	3, 6, 7, 8	LPT-1	58.3%	
4				4.00 / 780.00 SAND, grey, moist, medium sand.
5				5.80
6				778.20 Sandy Lean CLAY (CL), some gravel (a fine, rusty sand sublayer/ pocket about 1.5 cm thick at the interface of brown clay at top and grey clay at bottom), stiff, brown, m.c.> P.L. (free water at surface), massive, TILL
	4, 3,	LPT-2	70.8%	
7	4, 7	Shelby	100%	Grey Shelby tube sampling at 6.4m to 7.0m.
8				Stiffer soil after 8m.
9				A boulder at 8.86 m in depth.
10	5. 10,	LPT-3	100%	Max. size gravel in the spoon: 4 cm, subround, very stiff.

Continued Next Page

INSTRUMENT DETAILS

Su - kPa: 20 60 100 140 180

VANE PEAK ◆ REMOLD ◇ FIELD ■ □ LAB ▲ UC/2 △ P.PEN/2

★ % FINES ● SPT N

W_P% W% W_L%

20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper/Gold

LOCATION: Morrison Lake, BC

LOGGED BY: WD **CHECKED BY:**

SHEET 1 **OF** 2 **HOLE NO.:** MW08-3

KCBL_MONITORING_WELL-SI 2008 DRILLING-MW SOIL LOG.GPJ KC_DATA.GDT 12/5/08

MONITORING WELL LOG

STARTED: Sep 21, 2008 **FINISHED:** Sep 22, 2008

DRILL METHOD: ODEX 90 Air Rotary

GROUND ELEV. (m): 784.00

COORDINATES (m): N 6120820 E 669975

DEPTH (m)	SPT BLOWS PER 0.15m	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
11	12, 24					
12					Trace fine subangular gravel, maximum size 19.0 mm; intermediate plasticity, very stiff, medium toughness, slow dilatancy and high dry strength, moist; brown; weak reaction with HCL.	
	6, 10, 18, 31	LPT-4	100%		Max. size gravel in the spoon: 5 cm at bottom, broken during hammering, angular, very stiff.	
13					(More big rocks were encountered and slowed down the drilling at this site than at the MW08-1 site.)	
14						
					14.80 / 769.20 Bedrock — End of Hole at 14.80 m	
15					Note: See Rescan Rock Log for Details deeper than 14.8m.	
16					Note:	
					1. Pocket penetrometer readings larger than 200 kPa is shown as 200 kPa.	
17					2. A standpipe monitoring well was installed in bedrock at this drill hole. The details of the standpipe monitoring well shown in this log is the one installed in overburden which is just meters away.	
					3. The LPT blow counts were converted to SPT blow counts.	
18						
19						
20						

Su - kPa

20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB ▲ UC/2

REMOLD ◇ □ △ P.PEN/2

★ % FINES ● SPT N

W_P% W% W_L%

× – – – – ○ – – – – ×

20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper/Gold

LOCATION: Morrison Lake, BC

LOGGED BY: WD **CHECKED BY:**

SHEET 2 **OF** 2 **HOLE NO.:** MW08-3

KCBL_MONITORING_WELL-SI 2008 DRILLING-MW SOIL LOG.GPJ KC_DATA.GDT 12/5/08

TEST PIT LOG

STARTED: 8/9/2008 **FINISHED:** 8/9/2008

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 833.0

COORDINATES (m): N 6118979 E 671357

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
0.0					
				0.10 (832.9) TOPSOIL. SILT, some sand. soft to firm, brownish black, moist.	
				Sandy Lean CLAY with Gravel, trace cobbles and boulders, low plasticity, firm to stiff, brown, moist, organics, TILL.	
0.5					
1.0	Grab	1			
1.5					
2.0	Grab	2		Some cobbles and boulders, sub-rounded to sub-angular fine grained wacke.	
2.5					
				2.80 (830.2) End of Hole at 2.80 m	
3.0				Ground water not encountered. Pit walls stable.	
3.5					
4.0					
4.5					
5.0					

Su - kPa: 20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB ▲ UC/2
REMOLD ◇ □ △ P.PEN/2

★ % FINES

W_P% W% W_L%

× – – – – ○ – – – – ×

20 40 60 80

PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: GA **CHECKED BY:**

SHEET 1 **OF** 1 **HOLE NO.:** TP08-A

Klohn Crippen Berger

KCBL_TEST_PIT-SI 080929 - 2008 TEST PIT LOGS.GPJ KC_DATA.GDT 12/5/08

TEST PIT LOG

STARTED: 5/9/2008 **FINISHED:** 5/9/2008

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 740.0

COORDINATES (m): N 6118943 E 670003

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	DESCRIPTION OF MATERIALS
0.0			ORGANICS; SILT, clayey with some sand. low plasticity, very soft, brownish black, saturated.
0.60 / 739.4			Sandy Lean CLAY (CL), firm, low plasticity, medium toughness, slow dilatancy and high dry strength, moist; dark grey with orange mottles; no reaction with HCl.
1.0	Grab	1	
2.0	Grab	2	@2.1m Granite boulder.
2.70 / 737.3			@2.6m Seepage observed. Clayey GRAVEL (GC) with Sand, maximum size 19.0 mm, some sub-rounded to sub-angular cobbles and boulders, compact, low toughness, rapid dilatancy and low dry strength, moist; dark grey; weak reaction with HCl.
3.0	Grab	3	
3.5			Cobbly. OUTWASH GRAVELS?
4.0	Grab	4	
4.50 / 735.5			End of Hole at 4.50 m
5.0			Walls show minor spalling and seepage.

INSTRUMENT DETAILS

Su - kPa: 20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB ▲ UC/2

REMOLD ◇ □ △ P.PEN/2

★ % FINES

W_P% × — — — — W% ○ — — — — W_L% ×

20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: GA **CHECKED BY:**

SHEET 1 **OF** 1 **HOLE NO.:** TP08-B

KCBL_TEST_PIT-SI 080929 - 2008 TEST PIT LOGS.GPJ KC_DATA.GDT 12/5/08

TEST PIT LOG

STARTED: 8/9/2008 **FINISHED:** 8/9/2008

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 822.0

COORDINATES (m): N 6120181 E 670918

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
				TOPSOIL. SILT, some sand. Brownish black.	
0.20				821.8	
0.5				Sandy Lean CLAY, trace cobbles and boulders, trace fine subangular gravel, maximum size 9.5 mm. Low plasticity, stiff, medium toughness, slow dilatancy and high dry strength, moist; brown; weak to strong reaction with HCl.	
1.0	Grab	1			
1.20				820.8	
1.5	Grab	2		Clayey GRAVEL(GC) with Sand, trace cobbles and boulders. Low plasticity, very stiff, brown, moist. Boulders up to 0.5m diameter, sub-rounded. At 1.2m - 1.3m Sand horizon, wet. At 1.5m, harder to excavate.	
1.90				820.1	
2.0				End of Hole at 1.90 m Refusal. Possible bedrock. Greyish blue, fresh/sw wacke with qtz veins. Strong.	
2.5					
3.0					
3.5					
4.0					
4.5					
5.0					

Su - kPa

20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB
REMOLD ◇ □

▲ UC/2
△ P.PEN/2

★ % FINES

W_P% W% W_L%

× – – – – ○ – – – – ×

20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: GA **CHECKED BY:**

SHEET 1 **OF** 1 **HOLE NO.:** TP08-C

KCBL_TEST_PIT-SI 080929 - 2008 TEST PIT LOGS.GPJ KC_DATA.GDT 12/5/08

TEST PIT LOG

STARTED: 6/9/08 **FINISHED:** 6/9/08

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 742.0

COORDINATES (m): N 6119105 E 669765

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
				0.10 / 741.9 ORGANICS; SILT, clayey with some sand. Brownish black, very soft, saturated, low plasticity.	
0.5				Clayey SAND (SC) with Gravel, trace boulders. Loose to compact, brown; moist; cobbles and boulders sub-rounded to sub-angular granite; often weathered; up to 0.7m diameter.	
1.0	Grab	1			
1.5					
2.0	Grab	2			
2.5					
3.0	Grab	3		Some fine subangular gravel, maximum size 19.0 mm; low toughness, rapid dilatancy and low dry strength, moist; brown; strong reaction with HCl.	
				3.10 / 738.9 At 3.0m, more clay.	
				End of Hole at 3.10 m	
3.5					
4.0					
4.5					
5.0					

Su - kPa

20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB ▲ UC/2

REMOLD ◇ □ △ P.PEN/2

★ % FINES

W_P% W% W_L%

× – – – – ○ – – – – ×

20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: GA **CHECKED BY:**

SHEET 1 **OF** 1 **HOLE NO.:** TP08-D

KCBL_TEST_PIT-SI 080929 - 2008 TEST PIT LOGS.GPJ KC_DATA.GDT 12/5/08

TEST PIT LOG

STARTED: 9/9/2008 **FINISHED:** 9/9/2008

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 806.0

COORDINATES (m): N 6120584 E 670128

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	DESCRIPTION OF MATERIALS
0.0			TOPSOIL. SILT, some sand, brownish black, moist, soft to firm, rootlets.
0.20 / 805.8			Sandy Lean CLAY with some gravel, trace cobbles and boulders. Low plasticity, firm, brown; moist. TILL
1.0	Grab	1	
1.5			At 1.5m, abrupt strength increase; very stiff.
1.80 / 804.2			Clayey Gravel (GC) with Sand, some cobbles and boulders. Compact, reddish brown; moist. Boulders up to 0.5m diameter, subangular to subrounded. TILL
2.0	Grab	2	
2.2			At 2.2m, greyish blue clay "lumps".
2.5	Grab	3	
4.0	Grab	4	Trace fine to coarse subangular gravel, maximum size 19.0 mm; medium toughness, slow dilatancy and high dry strength, moist; brown; weak to strong reaction with HCl.
4.50 / 801.5			End of Hole at 4.50 m
			Refusal. Till too dense. Bedrock not encountered.
5.0			

INSTRUMENT DETAILS

Su - kPa: 20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB
REMOLD ◇ □
▲ UC/2
△ P.PEN/2

★ % FINES

W_P% × ——— W% ○ ——— W_L% ×

20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: GA **CHECKED BY:**

SHEET 1 **OF** 1 **HOLE NO.:** TP08-E

KCBL_TEST_PIT-SI 080929 - 2008 TEST PIT LOGS.GPJ KC_DATA.GDT 12/5/08

TEST PIT LOG

STARTED: 10/9/2008 **FINISHED:** 10/9/2008

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 796.0

COORDINATES (m): N 6120526 E 669865

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	DESCRIPTION OF MATERIALS
0.0			TOPSOIL. SILT, some sand, brownish black, moist, soft to firm, rootlets.
0.30 / 795.7			SILT with some fine sand, gravel, trace cobbles and boulders. Compact; non-plastic, dry to moist. Cobbles and boulders subangular to subrounded.
0.50 / 795.5			Sandy Lean CLAY, with some cobbles, trace boulders (up to 0.5m diameter) and trace fine subangular gravel, maximum size 9.5 mm. Low plasticity; very stiff, medium toughness, slow dilatancy and high dry strength, moist; brown, occasionally deep red; weak to strong reaction with HCl. TILL
1.0	Grab	1	
2.0	Grab	2	
3.0	Grab	3	Maximum size gravel 4.75 mm, medium plasticity, medium toughness, slow dilatancy and high dry strength, moist; brown; weak reaction with HCl.
3.60 / 792.4			End of Hole at 3.60 m
4.0			
5.0			

INSTRUMENT DETAILS

Su - kPa

20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB

REMOLD ◇ □

▲ UC/2

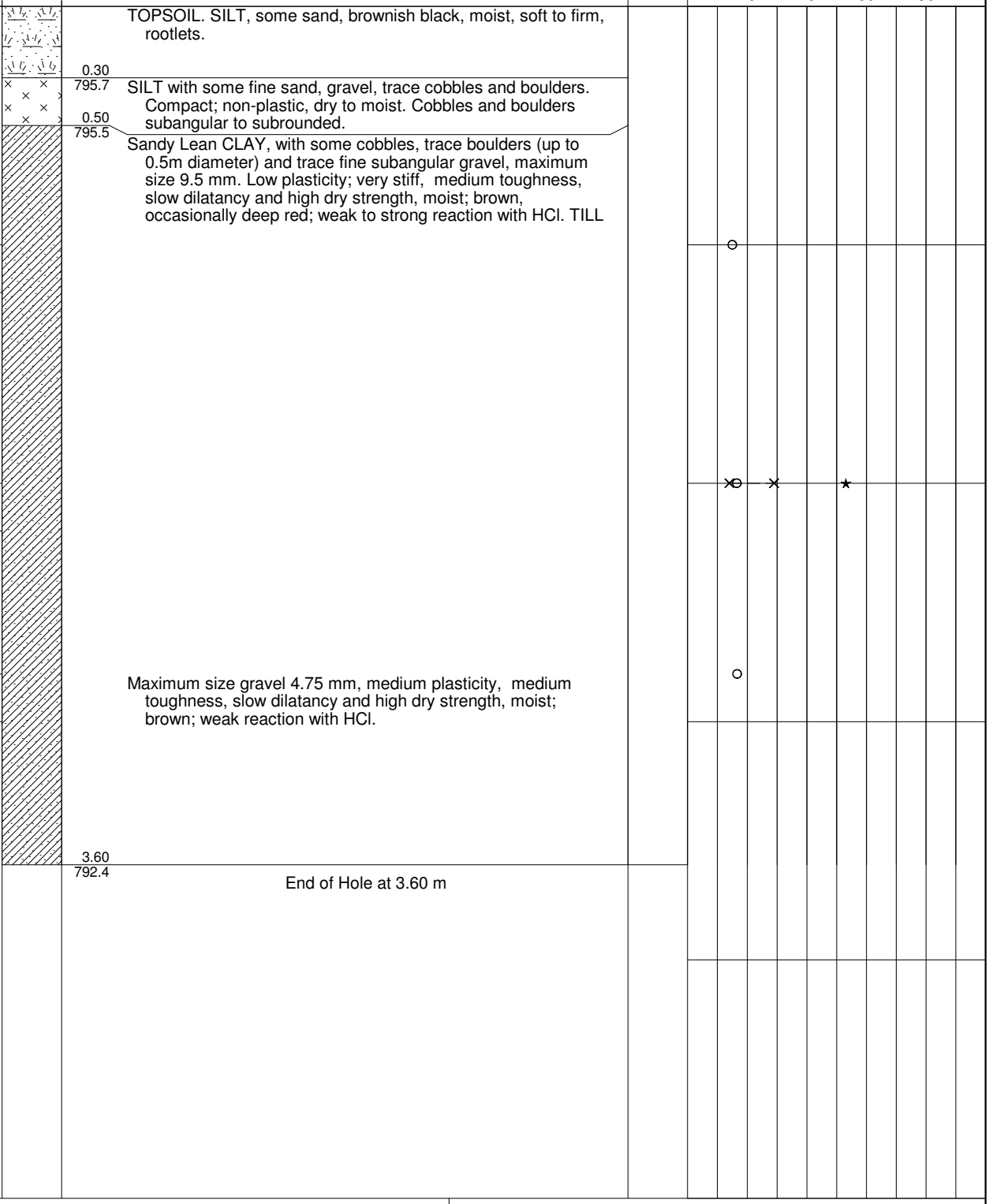
△ P.PEN/2

★ % FINES

W_P% W% W_L%

× – – – – ○ – – – – ×

20 40 60 80



PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: GA **CHECKED BY:**

SHEET 1 **OF** 1 **HOLE NO.:** TP08-F

Klohn Crippen Berger

KCBL_TEST_PIT-SI 080929 - 2008 TEST PIT LOGS.GPJ KC_DATA.GDT 12/5/08

TEST PIT LOG

STARTED: 5/9/2008 **FINISHED:** 5/9/2008

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 797.0

COORDINATES (m): N 6121659 E 670147

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
				ORGANICS. Silt and CLAY. Blackish brown; very soft; wet; non-plastic.	
				Slow seepage from organic layers.	
0.5					
				0.75 / 796.3 Sandy Lean CLAY, trace to some fine subangular gravel, maximum size 9.5 mm, some angular to sub-rounded cobbles and boulders. medium plasticity, stiff, medium toughness, slow to rapid dilatancy and medium dry strength, moist; dark brown; no reaction with HCl.	
1.0	Grab	1			
1.5				At 1.70 m, light brown and soft to firm	
2.0	Grab	2			
2.5					
3.0	Grab	3		Trace boulders. Dense to very dense; moist; cobbles and boulders sub-angular to sub-rounded. TILL	
				At 3.1 m, harder to excavate.	
3.5				3.50 / 793.5 End of Hole at 3.50 m	
				Refusal in till. Too dense.	
4.0					
4.5					
5.0					

Su - kPa: 20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB ▲ UC/2 △ P.PEN/2

VANE REMOLD ◇ FIELD □ LAB

★ % FINES

W_P% × — — — — W% ○ — — — — W_L% ×

20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: GA **CHECKED BY:**

SHEET 1 **OF** 1 **HOLE NO.:** TP08-H

KCBL_TEST_PIT-SI 080929 - 2008 TEST PIT LOGS.GPJ KC_DATA.GDT 12/5/08

TEST PIT LOG

STARTED: 5/9/2008 **FINISHED:** 5/9/2008

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 808.0

COORDINATES (m): N 6121770 E 669960

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
0.0					
				0.10 / 807.9 TOPSOIL. SILT and clay. Brownish-black, organics.	
				Clayey SAND (SC) with Gravel, some cobbles and boulders, sub-angular to sub-rounded; up to 0.5m diameter, compact, contains rootlets, medium toughness, slow dilatancy and medium dry strength, moist; brown; no reaction with HCl.	
0.5					
1.0	Grab	1			
1.5				At 1.5m, moist to wet; dense.	
2.0	Grab	2			
2.5	Grab	3		At 2.5 m harder to excavate	
				2.90 / 805.1 End of Hole at 2.90 m	
3.0				Water table not encountered. Pit walls stable.	
3.5					
4.0					
4.5					
5.0					

Su - kPa: 20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB
REMOLD ◇ □
▲ UC/2
△ P.PEN/2

★ % FINES

W_P% W% W_L%

× – – – – ○ – – – – ×

20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: GA **CHECKED BY:**

SHEET 1 **OF** 1 **HOLE NO.:** TP08-I

KCBL_TEST_PIT-SI 080929 - 2008 TEST PIT LOGS.GPJ KC_DATA.GDT 12/5/08

TEST PIT LOG

STARTED: 9/9/2008 **FINISHED:** 9/9/2008

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 817.0

COORDINATES (m): N 6118497 E 671645

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
				0.10 (816.9) TOPSOIL. SILT and clay. Brownish-black, organics.	
				Clayey SAND with Gravel, trace subangular to subrounded cobbles and boulders. Brown, dry, , contains rootlets. TILL?	
0.5					
				At 0.7 m, dense (strength varies locally).	
1.0	Grab	1			
1.5				Some cobbles and boulders. Brown occasionally blue-grey; moist; stiff; slightly plastic, TILL.	
				At 1.8 m, harder to excavate.	
2.0	Grab	2			
2.5					
				2.80 (814.2) End of Hole at 2.80 m	
3.0				Refusal due to possible bedrock contact. Pit walls stable. Groundwater not encountered.	
3.5					
4.0					
4.5					
5.0					

Su - kPa

20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB
REMOLD ◇ □
▲ UC/2
△ P.PEN/2

★ % FINES

W_P% W% W_L%

× – – – – ○ – – – – ×

20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: GA **CHECKED BY:**

SHEET 1 **OF** 1 **HOLE NO.:** TP08-J

KCBL_TEST_PIT-SI 080929 - 2008 TEST PIT LOGS.GPJ KC_DATA.GDT 12/5/08

TEST PIT LOG

STARTED: 9/9/2008 **FINISHED:** 9/9/2008

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 819.0

COORDINATES (m): N 6118700 E 671485

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
				0.10 (818.9) TOPSOIL. SILT and clay. Brownish-black, organics.	
0.5				Sandy Lean CLAY with Gravel, trace cobbles and boulders. Low plasticity, firm, brown, moist, rootlets (possible fill from road construction / TILL)	
				0.95 (818.1)	
1.0	Grab	1		Clayey SAND with Gravel, trace cobbles & boulders. Brown, moist, slightly plastic, rootlets, firm. (Possible fill from road construction up to 0.95m /TILL)	
1.5				More clay, wet, loose to compact, easy digging.	
2.0	Grab	2			
2.5				Slow seep	
3.0	Grab	3			
3.5				Very difficult Digging	
				3.50 (815.5) End of Hole at 3.50 m	
4.0				Refusal due to inferred bedrock,	
4.5					
5.0					

Su - kPa: 20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB ▲ UC/2
VANE REMOLD ◇ FIELD □ LAB △ P.PEN/2

★ % FINES

W_P% × — — — — W% ○ — — — — W_L% ×

20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: GA **CHECKED BY:**

SHEET 1 **OF** 1 **HOLE NO.:** TP08-K

KCBL_TEST_PIT-SI 080929 - 2008 TEST PIT LOGS.GPJ KC_DATA.GDT 12/5/08

TEST PIT LOG

STARTED: 6/9/08 **FINISHED:** 6/9/08

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 836.0

COORDINATES (m): N 6120054 E 670234

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
				0.05 836.0 TOPSOIL. SILT and clay. Brownish-black, organics.	
				SILT, some clay, trace sand. Brown, moist, loose. Contains organics.	
				0.40 835.6 Clayey GRAVEL (GC) with Sand, trace angular to subangular cobbles and boulders. Compact to dense, brown, moist, quartz sandstone.	
1.0	Grab	1			
				1.25 834.8 Clayey SAND with Gravel, some cobbles & boulders, non-plastic, dense. TILL?/Completely weathered bedrock.	
1.5	Grab	2			
2.5				At 2.5 m, hard to excavate. Possibly highly weathered blocky bedrock.	
				3.20 832.8 End of Hole at 3.20 m	
3.5				Refusal due to inferred bedrock.	

Su - kPa

20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB
REMOLD ◇ □
▲ UC/2
△ P.PEN/2

★ % FINES

W_P% W% W_L%

× – – – – ○ – – – – ×

20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: GA **CHECKED BY:**

SHEET 1 **OF** 1 **HOLE NO.:** TP08-L

KCBL_TEST_PIT-SI 080929 - 2008 TEST PIT LOGS.GPJ KC_DATA.GDT 12/5/08

TEST PIT LOG

STARTED: 6/9/08 **FINISHED:** 6/9/08

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 819.0

COORDINATES (m): N 6120172 E 669766

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
0.00					
				0.10 / 818.9 TOPSOIL. SILT and clay. Brownish-black, organics.	
				Sandy Lean CLAY, trace angular to subangular cobbles and boulders. Low plasticity, stiff to very stiff, brown, moist, some Fe staining. Completely weathered bedrock?	
0.5				0.50 / 818.5 Clayey SAND with Gravel, some cobbles, trace boulders. Low plasticity, compact to dense, brown, moist. completely weathered bedrock.	
1.0	Grab	1			
1.5					
				1.90 / 817.1 End of Hole at 1.90 m	
2.0				Refusal in bedrock; greyish-blue, slightly weathered, strong, wacke/ fine quartzo-feldspathic sandstone.	
2.5					
3.0					
3.5					
4.0					
4.5					
5.0					

Su - kPa: 20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB
REMOLD ◇ □
▲ UC/2
△ P.PEN/2
★ % FINES

W_P% W% W_L%
× – – – – ○ – – – – ×
20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: GA **CHECKED BY:**

SHEET 1 **OF** 1 **HOLE NO.:** TP08-M

KCBL_TEST_PIT-SI 080929 - 2008 TEST PIT LOGS.GPJ KC_DATA.GDT 12/5/08

TEST PIT LOG

STARTED: 6/9/08 **FINISHED:** 6/9/08

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 825.0

COORDINATES (m): N 6119673 E 669954

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
				0.10 824.9 TOPSOIL. SILT and clay. Brownish-black, organics.	
				SILT, trace sand, cobbles & gravel. Orangish brown, dry, firm, rootlets. 0.30 824.7	
0.5				Clay SAND with Gravel, some cobbles and boulders. Non-plasticity, dense, brown, moist. Completely weathered bedrock?	
1.0					
1.5	Grab	1			
2.0				At 2.0m, harder to excavate. Highly weathered bedrock.	
				2.30 822.7 End of Hole at 2.30 m	
2.5					
3.0					
3.5					
4.0					
4.5					
5.0					

Su - kPa

20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB

REMOLD ◇ □

▲ UC/2

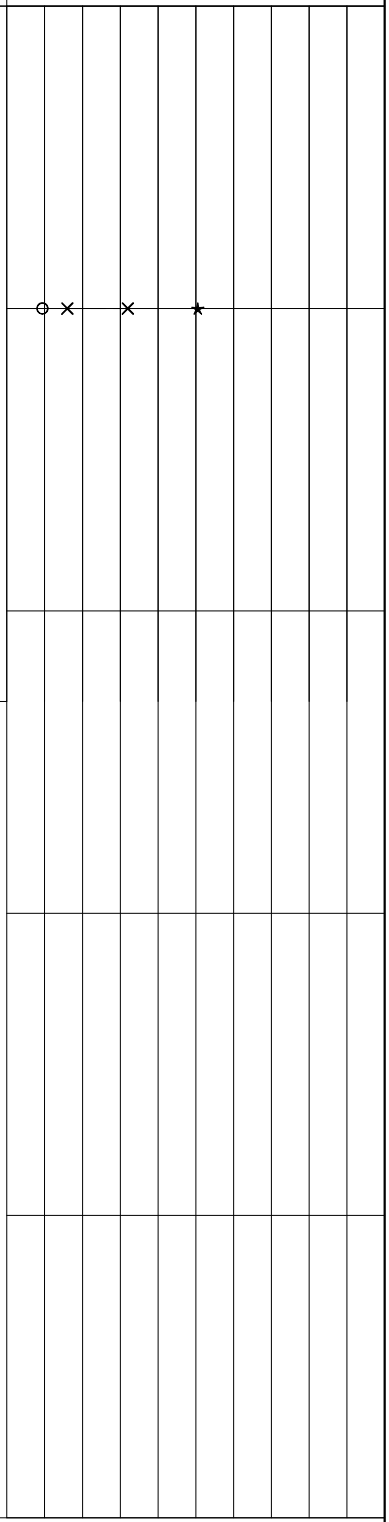
△ P.PEN/2

★ % FINES

W_P% W% W_L%

× – – – – ○ – – – – ×

20 40 60 80



Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: GA **CHECKED BY:**

SHEET 1 **OF** 1 **HOLE NO.:** TP08-N

KCBL_TEST_PIT-SI 080929 - 2008 TEST PIT LOGS.GPJ KC_DATA.GDT 12/5/08

TEST PIT LOG

STARTED: 18/9/08 **FINISHED:** 18/9/08

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 906.0

COORDINATES (m): N 6121293 E 671037

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
				Topsoil	
				0.30 905.7 Sandy Lean CLAY (CL), some gravel (fine to coarse), 5~10% cobbles and boulders (max. size: 40 cm), CL, firm to very stiff, medium brown, m.c. <P.L., massive, TILL	
0.5	Grab	1			
				0.85 905.2 Bedrock	
1.0				1.10 904.9 No seepage	
				End of Hole at 1.10 m	
				End of hole by refusal of bedrock	
1.5					
2.0					
2.5					
3.0					
3.5					
4.0					
4.5					
5.0					

Su - kPa

20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB

REMOLD ◇ □

▲ UC/2

△ P.PEN/2

★ % FINES

W_P% W% W_L%

× – – – – ○ – – – – ×

20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: WD **CHECKED BY:**

SHEET 1 **OF** 1 **HOLE NO.:** TP08-O

KCBL_TEST_PIT-SI 080929 - 2008 TEST PIT LOGS.GPJ KC_DATA.GDT 12/5/08

TEST PIT LOG

STARTED: 17/9/08 **FINISHED:** 17/9/08

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 905.0

COORDINATES (m): N 6121210 E 670848

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	DESCRIPTION OF MATERIALS
			Topsoil
0.20 / 904.8			Sandy Lean CLAY (CL) with gravel, trace cobbles (max. size 17 cm), CL, very stiff to hard, brown, m.c. < P.L., massive, TILL
0.5			Pocket penetrometer reading: 200 kPa at 0.8 m, 1.0 m and 1.5 m.
1.0			
1.5			Gravelly, trace sand, trace cobbles and boulders (max. size 40 cm), hard.
			Pocket penetrometer reading: >225 kPa
			No seepage
2.0	Grab	1	
2.5			
3.0			
3.5			
4.0			
4.5			
4.90 / 900.1	Grab	2	
5.0			Continued Next Page

INSTRUMENT DETAILS

Su - kPa
20 60 100 140 180
VANE PEAK ◆ FIELD ■ LAB
REMOLD ◇ □
▲ UC/2
△ P.PEN/2
★ % FINES
W_P% W% W_L%
× – – – – ○ – – – – ×
20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: WD **CHECKED BY:**

SHEET 1 **OF** 2 **HOLE NO.:** TP08-P

KCBL_TEST_PIT-SI 080929 - 2008 TEST PIT LOGS.GPJ KC_DATA.GDT 12/5/08

TEST PIT LOG

STARTED: 17/9/08 **FINISHED:** 17/9/08

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 905.0

COORDINATES (m): N 6121210 E 670848

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
				End of Hole at 5.00 m End of hole by maximal reach of the machone	

Su - kPa: 20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB ▲ UC/2 △ P.PEN/2

VANE REMOLD ◇ FIELD □ LAB

★ % FINES

W_P% × – – – – W% ○ – – – – W_L% ×

20 40 60 80

5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: WD **CHECKED BY:**

SHEET 2 **OF** 2 **HOLE NO.:** TP08-P

KCBL_TEST_PIT-SI 080929 - 2008 TEST PIT LOGS.GPJ KC_DATA.GDT 12/5/08

TEST PIT LOG

STARTED: 18/9/08 **FINISHED:** 18/9/08

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 866.0

COORDINATES (m): N 6121029 E 670810

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
0.0				Topsoil, black, moist, roots, wood, organics	
0.20 / 865.8				Sandy Lean CLAY, some gravel (fine to coarse, subangular to subround), trace cobbles and boulders, CL, stiff to very stiff, moisture content higher than plasticity limits (m.c. >P.L.), brown, massive, TILL	
0.5				Pocket penetrometer reading: 112.5 kPa at 0.8 m	
1.0				Pocket penetrometer reading: 150 kPa at 1.2 m	
1.5					
2.0					
2.5					
3.0					
3.50 / 862.5					
3.5					
4.0					
4.5				Pocket penetrometer reading: 200 kPa at 4.5 m.	
5.0				Continued Next Page	

Su - kPa: 20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB
REMOLD ◇ □
▲ UC/2
△ P.PEN/2

★ % FINES

W_P% W% W_L%

× – – – – ○ – – – – ×

20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: WD **CHECKED BY:**

SHEET 1 **OF** 2 **HOLE NO.:** TP08-Q

TEST PIT LOG

STARTED: 18/9/08 **FINISHED:** 18/9/08

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 866.0

COORDINATES (m): N 6121029 E 670810

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
5.5				Pocket penetrometer reading: 212.5 kPa at 5.5 m	
	Grab	1		Trace fine subangular and subrounded gravel, clayey, maximum size 9.5 mm; medium plasticity, medium toughness, slow dilatancy and medium dry strength, moist; brown; weak to strong reaction with HCl	
6.0				End of Hole at 6.00 m	
				No seepage End of hole by max. reach of the machine	
6.5					
7.0					
7.5					
8.0					
8.5					
9.0					
9.5					
10.0					

Su - kPa

20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB

REMOLD ◇ □

▲ UC/2

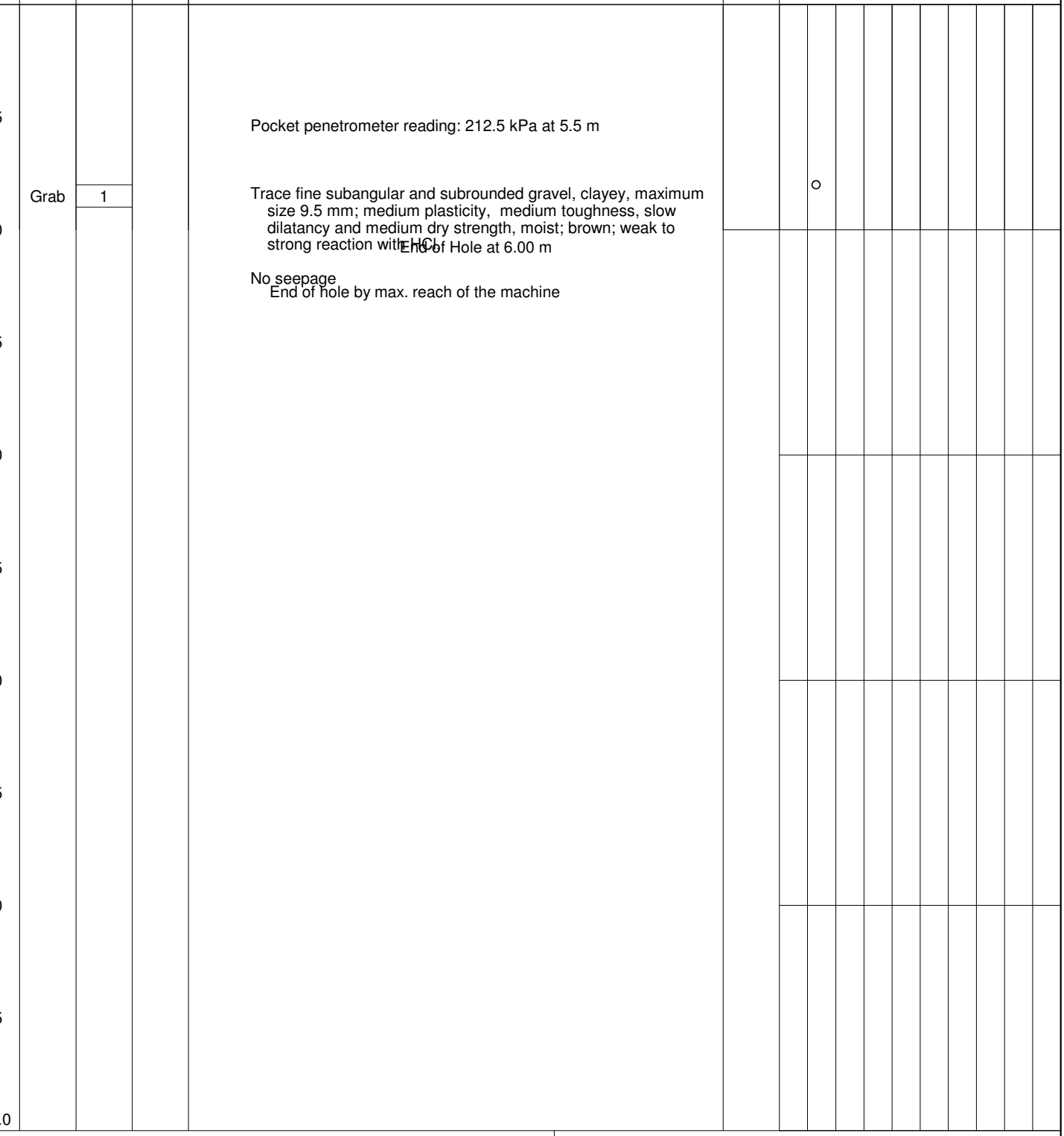
△ P.PEN/2

★ % FINES

W_P% W% W_L%

× – – – – ○ – – – – ×

20 40 60 80



Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: WD **CHECKED BY:**

SHEET 2 **OF** 2 **HOLE NO.:** TP08-Q

KCBL_TEST_PIT-SI 080929 - 2008 TEST PIT LOGS.GPJ KC_DATA.GDT 12/5/08

TEST PIT LOG

STARTED: 18/9/08 **FINISHED:** 18/9/08

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 824.0

COORDINATES (m): N 6121121 E 670474

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	DESCRIPTION OF MATERIALS
			TOPSOIL
0.30			
823.7			FILL, clay, some sand, trace gravel, CL, soft to firm, greenish grey (sand pocket) to brown (Clay).
0.5			
1.0	Grab	1	
1.5			
1.50			
822.5			Sandy Lean CLAY (CL), trace gravel, CL, firm to stiff, brown, massive, m.c. >P.L., TILL
2.0			Pocket penetrometer reading: 37.5 kPa at 2.1 m.
2.5			Pocket penetrometer reading: 50 kPa at 2.5 m
			Some gravel to gravelly (max. size: 33 cm, subround to round), very stiff, brown, m.c.=P.L., massive, till
3.0			Light seepage at 2.8m
3.5			
4.0			Pocket penetrometer reading: 150 kPa at 4.0 m
	Grab	2	
4.40			
819.6			Pocket penetrometer reading: 125 kPa at 4.4 m
4.5			End of Hole at 4.40 m
			End of hole by max. reach of the machine
5.0			

INSTRUMENT DETAILS

Su - kPa
20 60 100 140 180
VANE PEAK ◆ FIELD ■ LAB
REMOLD ◇ □
▲ UC/2
△ P.PEN/2
★ % FINES
W_P% W% W_L%
× – – – – ○ – – – – ×
20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: WD **CHECKED BY:**

SHEET 1 **OF** 1 **HOLE NO.:** TP08-R

KCBL_TEST_PIT-SI 080929 - 2008 TEST PIT LOGS.GPJ KC_DATA.GDT 12/5/08

TEST PIT LOG

STARTED: 8/9/2008 **FINISHED:** 8/9/2008

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 836.0

COORDINATES (m): N 6119463 E 670856

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
0.0				TOPSOIL. Black, organic sandy SILT. Moist to wet. Loose.	
0.20				835.8	
0.5				Sandy Lean CLAY (CL) with trace of cobbles and boulders. Low plasticity; stiff to very stiff, orangish-brown. Pocket pen reading = 200 - 2.25 kPa.	
1.0	Grab	1			
1.5					
1.70				834.3	
2.0				End of Hole at 1.70 m Refusal due to inferred bedrock. Groundwater not encountered. Pit walls stable.	
2.5					
3.0					
3.5					
4.0					
4.5					
5.0					

Su - kPa

20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB

REMOLD ◇ □

▲ UC/2

△ P.PEN/2

★ % FINES

W_P% W% W_L%

× – – – – ○ – – – – ×

20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: GA **CHECKED BY:**

SHEET 1 **OF** 1 **HOLE NO.:** TPRS-1

KCBL_TEST_PIT-SI 080929 - 2008 TEST PIT LOGS.GPJ KC_DATA.GDT 12/5/08

TEST PIT LOG

STARTED: 7/9/2008 **FINISHED:** 7/9/2008

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 804.0

COORDINATES (m): N 6119463 E 670656

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
0.0					
				0.10 / 803.9 TOPSOIL. Black, organic sandy silt. Moist to wet. Loose.	
				Clayey GRAVEL with Sand, some cobbles, trace boulders. Loose to compact; non-plastic, orangish brown, moist, Cobbles and boulders sub-angular to sub-rounded.	
0.5					
1.0	Grab	1			
1.5				At 1.5m, less clay.	
2.0	Grab	2		2.10 / 801.9 End of Hole at 2.10 m	
				Refusal - bedrock.	
2.5					
3.0					
3.5					
4.0					
4.5					
5.0					

Su - kPa
20 60 100 140 180
VANE PEAK ◆ FIELD ■ LAB
REMOLD ◇ □
▲ UC/2
△ P.PEN/2
★ % FINES
W_P% W% W_L%
× – – – – ○ – – – – ×
20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: GA **CHECKED BY:**

SHEET 1 **OF** 1 **HOLE NO.:** TPRS-2

KCBL_TEST_PIT-SI 080929 - 2008 TEST PIT LOGS.GPJ KC_DATA.GDT 12/5/08

TEST PIT LOG

STARTED: 8/9/2008 **FINISHED:** 8/9/2008

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 797.0

COORDINATES (m): N 6118960 E 670639

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
0.0				0.05 797.0 TOPSOIL. Black, organic sandy silt. Moist to wet. Loose.	
				Sandy Lean CLAY with Gravel, some cobbles, trace boulders. Moderate plasticity, stiff, moist, brown, possible fill / TILL.	
0.5					
1.0	Grab	1			
1.5				Very Stiff Brown with orange mottles; angular to sub angular cobbles and boulders; moist, completely weathered rock.	
				Pocket pen reading greater than 225 kPa.	
2.0	Grab	2			
2.5					
3.0				3.00 794.0	
	Grab	3		End of Hole at 3.00 m	
				Refusal due to inferred bedrock. Groundwater not encountered. Pit walls stable.	
3.5					
4.0					
4.5					
5.0					

Su - kPa: 20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB ▲ UC/2

REMOLD ◇ □ △ P.PEN/2

★ % FINES

W_P% W% W_L%

× – – – – ○ – – – – × 20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: GA **CHECKED BY:**

SHEET 1 **OF** 1 **HOLE NO.:** TPRS-3

KCBL_TEST_PIT-SI 080929 - 2008 TEST PIT LOGS.GPJ KC_DATA.GDT 12/5/08

TEST PIT LOG

STARTED: 8/9/2008 **FINISHED:** 8/9/2008

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 821.0

COORDINATES (m): N 6119645 E 670839

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
				0.10 / 820.9 TOPSOIL. Organic sandy silt. Brownish black; moist to wet. Loose.	
0.5				Sandy Lean CLAY (CL) with Gravel, some cobbles and boulders. Moderate plasticity, firm, brown; moist; cobbles and boulders subangular to sub rounded.	
				Pocket pen reading: 50~100 kPa.	
1.0	Grab	1			
1.5					
2.0	Grab	2		2.10 / 818.9 Clayey SAND (SC) with Gravel, some cobbles, trace boulders. Low plasticity, dense, moist to wet.	
2.5				At 2.5m, harder to excavate. Slow seep.	
				Wet. Completely weathered rock?	
3.0	Grab	3			
3.5				3.50 / 817.5 End of Hole at 3.50 m	
4.0					
4.5					
5.0					

Su - kPa: 20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB ▲ UC/2 △ P.PEN/2

VANE REMOLD ◇ FIELD □ LAB

★ % FINES

W_P% × — — — — W% ○ — — — — W_L% ×

20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: GA **CHECKED BY:**

SHEET 1 **OF** 1 **HOLE NO.:** TPRS-4

KCBL_TEST_PIT-SI 080929 - 2008 TEST PIT LOGS.GPJ KC_DATA.GDT 12/5/08

TEST PIT LOG

STARTED: 8/9/2008 **FINISHED:** 8/9/2008

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 868.0

COORDINATES (m): N 6118965 E 671078

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
				0.10 / 867.9 TOPSOIL. Organic sandy silt. Brownish black; moist to wet. Loose.	
				Clayey SAND (SC), some gravel and cobbles, trace boulders. Non-plastic, dense, brown, orange mottles.; moist.	
0.5				0.50 / 867.5 Clayey GRAVEL (GC), some cobbles and boulders. Non-plastic, dense, orangish brown, moist, completely weathered bedrock - highly fractured and blocky.	
1.0	Grab	1			
1.5					
2.0	Grab	2			
2.5				At 2.6 m, slow seepage, water in base of pit.	
	Rock	3		2.70 / 865.3 End of Hole at 2.70 m	
3.0				REFUSAL. Fresh/slightly weathered bedrock. Bluish grey with mineralised veins. Strong/v. strong. Granodiorite?	
3.5					
4.0					
4.5					
5.0					

Su - kPa: 20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB
REMOLD ◇ □
▲ UC/2
△ P.PEN/2

★ % FINES

W_P% W% W_L%

× – – – – ○ – – – – ×

20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: GA **CHECKED BY:**

SHEET 1 **OF** 1 **HOLE NO.:** TPRS-5

KCBL_TEST_PIT-SI 080929 - 2008 TEST PIT LOGS.GPJ KC_DATA.GDT 12/5/08

TEST PIT LOG

STARTED: 7/9/2008 **FINISHED:** 7/9/2008

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 814.0

COORDINATES (m): N 6119219 E 670391

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	DESCRIPTION OF MATERIALS
0.10 / 813.9			TOPSOIL. Organic sandy silt. Brownish black; moist to wet. Loose.
			Clayey GRAVEL (GC) with Sand, trace cobbles & boulders. Non-plastic, dense; moist. Cobbles and boulders angular to sub-angular, up to 1 m diameter.
1.0	Grab	1	
1.5			At 1.5 m, some cobbles and boulders.
2.0	Grab	2	
2.70 / 811.3			End of Hole at 2.70 m
3.0			REFUSAL. Inferred Bedrock. Bluish grey. Very strong. Volcanics?/Wacke?

INSTRUMENT DETAILS

Su - kPa: 20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB ▲ UC/2 △ P.PEN/2

REMOLD ◇ □

★ % FINES

W_P% W% W_L%

× – – – – ○ – – – – ×

20 40 60 80

PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: GA **CHECKED BY:**

SHEET 1 **OF** 1 **HOLE NO.:** TPRS-6

Klohn Crippen Berger

KCBL_TEST_PIT-SI 080929 - 2008 TEST PIT LOGS.GPJ KC_DATA.GDT 12/5/08

TEST PIT LOG

STARTED: 7/9/2008 **FINISHED:** 7/9/2008

EXCAVATOR TYPE: CAT 325 Excavator

GROUND ELEV. (m): 835.0

COORDINATES (m): N 6119510 E 670282

DEPTH (m)	SAMPLE TYPE	SAMPLE No.	SYMBOL	DESCRIPTION OF MATERIALS	INSTRUMENT DETAILS
0.0				0.10 / 834.9 TOPSOIL. Organic sandy silt. Brownish black; moist to wet. Loose.	
				Clayey SAND (SC), some angular to sub angular cobbles and boulders. Low plasticity, compact, moist; rootlets; Completely weathered bedrock?	
0.5					
1.0	Grab	1			
1.5				At 1.5 m, highly weathered bedrock; medium strong (approx 20-50 MPa). Orangish brown; high clay content; low plastic; fractured and broken. Harder to excavate.	
2.0	Grab	2			
				2.30 / 832.7 End of Hole at 2.30 m	
2.5				Refusal. Bedrock too waethered to excavate. Pit walls stable. Ground water not encountered.	
3.0					
3.5					
4.0					
4.5					
5.0					

Su - kPa: 20 60 100 140 180

VANE PEAK ◆ FIELD ■ LAB ▲ UC/2 △ P.PEN/2

VANE REMOLD ◇ FIELD □ LAB

★ % FINES

W_P% × ——— W% ○ ——— W_L% ×

20 40 60 80

Klohn Crippen Berger

PROJECT NO.: M09382A01

PROJECT: Morrison Copper Gold Mine

LOCATION: Lake Morrison, B.C.

LOGGED BY: GA **CHECKED BY:**

SHEET 1 **OF** 1 **HOLE NO.:** TPRS-7

KCBL_TEST_PIT-SI 080929 - 2008 TEST PIT LOGS.GPJ KC_DATA.GDT 12/5/08

CORRECTION OF STANDARD PENETRATION TEST RESULTS

DH08-1

DH08-2

Generalized Stratigraphy

	Soil Type	Bottom Depth (m)	Total Unit Weight (kN/m^3)	Effective Unit Weight (kN/m^3)
DH08-1	**Glacial Till**	**14.78**	**20.00**	10.00
DH08-2		**6.26**	**20.00**	10.00

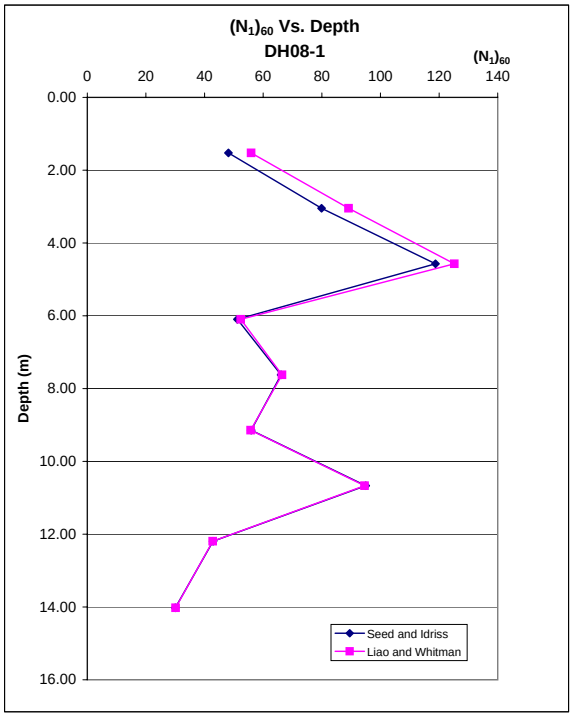
Water Table **1.5** m

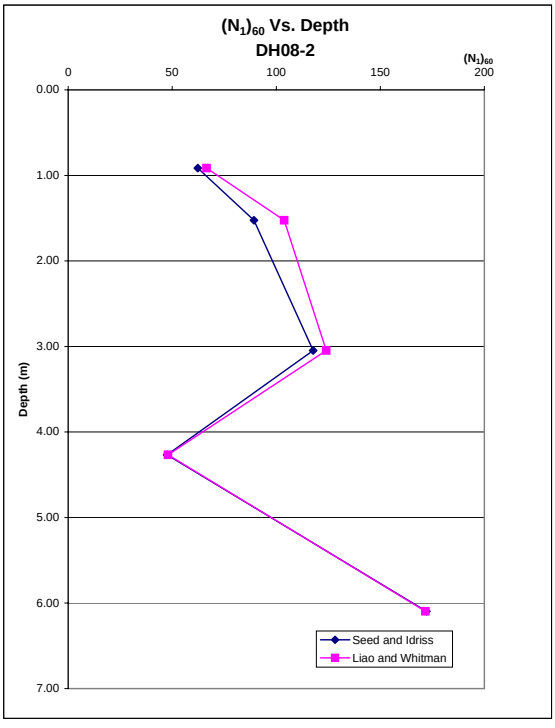
Efficiency (%) **104** (Assumed for Safety Hammer)

DRILL HOLE	TEST NAME	MIDDLE DEPTH (ft)	MIDDLE DEPTH (m)	FIELD N	N_{60}	SAMPLER CORRECTION	ROD LENGTH CORRECTION	TOTAL STRESS (kPa)	EFFECTIVE STRESS (kPa)	EFFECTIVE STRESS (tsf)	C_N Seed and Idriss	C_N Liao and Whitman	$(N_1)_{60}$ Seed and Idriss	$(N_1)_{60}$ Liao and Whitman
DH08-1	SPT-1	5	1.52	21	37	**1.2**	0.75	30.48	30.24	0.32	1.464	1.700	48	56
	SPT-2	10	3.05	36	63	1.2	0.80	60.96	45.48	0.47	1.329	1.483	80	89
	SPT-3	15	4.57	55	96	1.2	0.85	91.44	60.72	0.63	1.217	1.283	119	125
	SPT-4	20	6.10	23	40	1.2	0.95	121.92	75.96	0.79	1.123	1.147	51	52
	SPT-5	25	7.62	32	56	1.2	0.95	152.40	91.20	0.95	1.042	1.047	66	66
	SPT-6	30	9.14	29	50	1.2	0.95	182.88	106.44	1.11	0.972	0.969	56	56
	SPT-7	35	10.67	50	87	1.2	1.00	213.36	121.68	1.27	0.910	0.907	95	95
	SPT-8	40	12.19	24	42	1.2	1.00	243.84	136.92	1.43	0.856	0.855	43	43
	SPT-9	46	14.02	18	31	1.2	1.00	280.42	155.21	1.62	0.799	0.803	30	30

Water Table **4.7** m

DRILL HOLE	TEST NAME	MIDDLE DEPTH (ft)	MIDDLE DEPTH (m)	FIELD N	N_{60}	SAMPLER CORRECTION	ROD LENGTH CORRECTION	TOTAL STRESS (kPa)	EFFECTIVE STRESS (kPa)	EFFECTIVE STRESS (tsf)	C_N Seed and Idriss	C_N Liao and Whitman	$(N_1)_{60}$ Seed and Idriss	$(N_1)_{60}$ Liao and Whitman
DH08-2	SPT-1	3	0.91	25	43	**1.2**	0.75	18.29	18.29	0.19	1.591	1.700	62	67
	SPT-2	5	1.52	39	68	1.2	0.75	30.48	30.48	0.32	1.462	1.700	89	104
	SPT-3	10	3.05	58	101	1.2	0.80	60.96	60.96	0.64	1.216	1.281	118	124
	SPT-4	14	4.27	25	43	1.2	0.85	85.34	85.34	0.89	1.071	1.082	48	48
	SPT-5	20	6.10	90	157	1.2	0.95	121.92	108.06	1.13	0.965	0.962	172	172





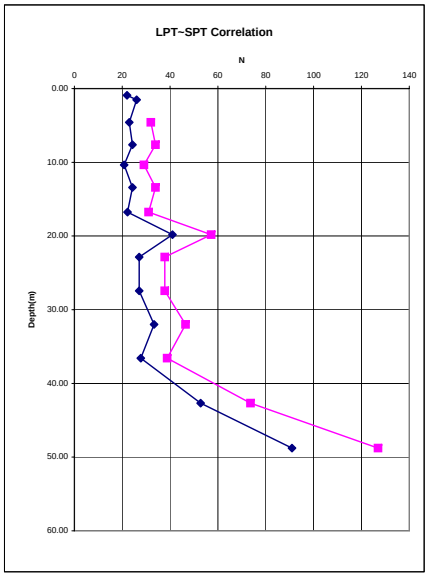
LPT PENETRATION TEST - DATA CORRECTION

LPT Setup		
LPT Split spoon sampler O.D.	7.62	cm
LPT Split spoon sampler I.D. (barrel)	6.45	cm
LPT Split spoon sampler I.D. (shoe)	6.20	cm
LPT Length of sample	60.96	cm
LPT Hammer drop height	0.762	m
LPT Hammer weight	65.0	kg
Impact velocity		m/s
g	9.81	m/s^2
PE	486	J
KE	0	J

ER	104	%
ENTHRU	505	J
A_T	15.41	cm^2
R_F	0.35	%
A_F	2694.6	cm^2
A_{TE}	24.84	cm^2

$(N_{field})_{LPT}$ to $(N_{60})_{SPT}$ Correction factor	0.97
$(N_{field})_{SPT}$ to $(N_{60})_{SPT}$ Correction factor	1.73

Sample	Depth	Method	Measured Field Blows												Slough	$(N_{60})_{SPT}$ values			$(N_{field})_{SPT}$ values		
No.	(m)		(blows per 2 inches)												(in)	(blows per foot)			(blows per foot)		
			1	2	3	4	5	6	7	8	9	10	11	12		6"-18"	(12"-18")x2	12"-24"	6"-18"	(12"-18")x2	12"-24"
SPT 1	0.91	SPT	4	2	3	3	3	4	4	4	4	5	6	6	0				22	22	22
SPT 2	1.52	SPT	1	2	2	4	4	3	4	6	5	5	6	12	0				26	24	28
LPT 3	4.57	LPT	1	3	4	4	5	6	5	6	7	7	7	10	0	32	47	47	23	33	33
LPT 4	7.62	LPT	1	2	2	3	3	7	8	7	7	8	10	8	0	34	56	53	24	39	37
LPT 5	10.36	LPT	1	2	3	4	4	5	5	6	6	6	7	8	0	29	43	42	21	30	29
LPT 6	13.41	LPT	2	5	4	4	6	6	6	7	6	7	9	10	0	34	48	49	24	34	35
LPT 7	16.76	LPT	1	2	3	4	5	5	5	5	8	16	9	9	0	31	45	55	22	31	39
LPT 8	19.81	LPT	2	3	4	4	6	9	10	17	13	11	12	14	0	57	95	83	41	67	59
LPT 9	22.86	LPT	1	3	4	5	6	6	6	8	8	8	11	25	0	38	54	70	27	38	49
LPT 10	27.43	LPT	2	10	11	8	8	5	6	6	6	7	7	9	0	38	45	45	27	31	31
LPT 11	32.00	LPT	1	3	9	7	5	8	7	9	12	29			0	47	70	63	33	49	44
LPT 12	36.58	LPT	2	3	8	8	7	5	5	7	8	9	17	18	0	39	48	67	28	34	47
LPT 13	42.67	LPT	11	4	4	4	7	9	9	26	21	25			0	74	126	87	53	88	61
LPT 14	48.77	LPT	3	4	10	15	18	22	25	24	27	29	26	26	0	127	190	173	91	133	122



Project No. M09382A01
Project Name: Morrison Copper/Gold
Hole No. MW08-1
Date Sept. 26, 2008

PE	Potential energy	$PE = m \times g \times h$
KE	Kinetic energy	$KE = \frac{1}{2} \times m \times v^2$
ENTHRU	Transfer energy	
ER	Energy ratio (30%)	$ER = \frac{ENTHRU}{PE}$

A_T	Split spoon tip bearing area
A_F	Split spoon sampler bearing area
A_{TE}	Effective sampler bearing area
R_F	CPT friction ratio (0.35%)

$$A_T = \Pi \frac{(OD_{sampler}^2 - ID_{sampler}^2)}{4}$$

$$A_F = \Pi \times L \times ID_{sampler}$$

$$A_{TE} = A_T + A_F R_F$$

$$R_F = \frac{f_s}{q_c}$$

CORRECTION OF STANDARD PENETRATION TEST RESULTS

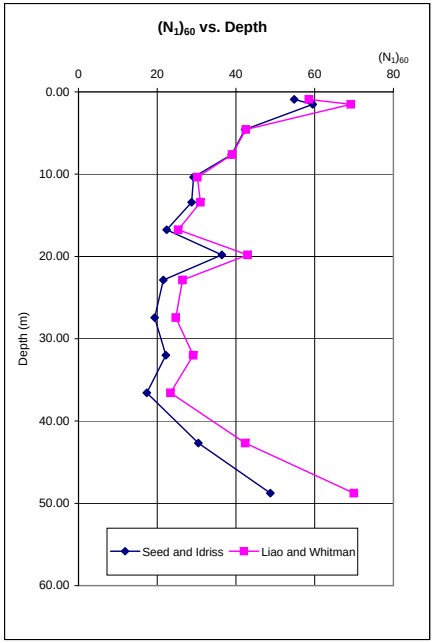
MW08-1

Generalized Stratigraphy

Soil Type	Bottom Depth (m)	Total Unit Unit Weight (kN/m^3)	Effective Unit Weight (kN/m^3)
Glacial Till	55.80	20.00	10.00

Water Table 24.9 m

Efficiency (%) 104 (Assumed for Safety Hammer)



DRILL HOLE	TEST NAME	MIDDLE DEPTH (ft)	MIDDLE DEPTH (m)	FIELD N	N_{60}	SAMPLER CORRECTION	ROD LENGTH CORRECTION	TOTAL STRESS (kPa)	EFFECTIVE STRESS (kPa)	EFFECTIVE STRESS (tsf)	C_N (Seed and Idriss)	C_N (Liao and Whitman)	$(N_1)_{60}$ (Seed and Idriss)	$(N_1)_{60}$ (Liao and Whitman)
MW08-1	SPT-1	3	0.91	22	38	1.2	0.75	18.29	18.29	0.19	1.591	1.700	55	59
	SPT-2	5	1.52	26	45	1.2	0.75	30.48	30.48	0.32	1.462	1.700	60	69
	LPT-3	15	4.57	23	40	1.2	0.85	91.44	91.44	0.95	1.040	1.046	42	43
	LPT-4	25	7.62	24	42	1.2	0.95	152.40	152.40	1.59	0.808	0.810	39	39
	LPT-5	34	10.36	21	36	1.2	1.00	207.26	207.26	2.16	0.672	0.695	29	30
	LPT-6	44	13.41	24	42	1.2	1.00	268.22	268.22	2.80	0.567	0.611	29	31
	LPT-7	55	16.76	22	39	1.2	1.00	335.28	335.28	3.50	0.483	0.546	22	25
	LPT-8	65	19.81	41	71	1.2	1.00	396.24	396.24	4.14	0.426	0.502	36	43
	LPT-9	75	22.86	27	47	1.2	1.00	457.20	457.20	4.77	0.381	0.468	22	26
	LPT-10	90	27.43	27	47	1.2	1.00	548.64	523.32	5.46	0.342	0.437	19	25
	LPT-11	105	32.00	33	58	1.2	1.00	640.08	569.04	5.94	0.319	0.419	22	29
	LPT-12	120	36.58	28	48	1.2	1.00	731.52	614.76	6.42	0.299	0.403	17	23
	LPT-13	140	42.67	53	92	1.2	1.00	853.44	675.72	7.06	0.276	0.385	30	42
	LPT-14	160	48.77	91	158	1.2	1.00	975.36	736.68	7.69	0.257	0.368	49	70

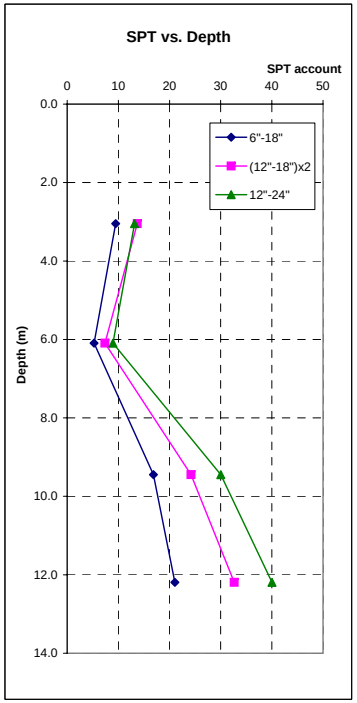
LPT PENETRATION TEST - DATA CORRECTION

LPT Setup		
LPT Split spoon sampler O.D.	7.62	cm
LPT Split spoon sampler I.D. (	6.35	cm
LPT Split spoon sampler I.D. (	6.03	cm
LPT Length of sample	60.96	cm
LPT Hammer drop height	0.762	m
LPT Hammer weight	65.0	kg
Impact velocity		m/s
g	9.81	m/s^2
PE	486	J
KE	0	J

ER	60	%
ENTHRU	292	J
A_T	17.02	cm^2
R_F	0.35	%
A_F	2675.4	cm^2
A_{TE}	26.39	cm^2

$(N_{field})_{LPT}$ to $(N_{60})_{SPT}$ Correction factor	0.53
$(N_{field})_{SPT}$ to $(N_{60})_{SPT}$ Correction factor	1.00

Sample	Depth	Method	Measured Field Blows												Slough	$(N_{60})_{SPT}$ values			$(N)_{SPT}$ values		
	(m)		(blows per 2 inches)												(in)	(blows per foot)			(blows per foot)		
			1	2	3	4	5	6	7	8	9	10	11	12		6"-18"	(12"-18")x2	12"-24"	6"-18"	(12"-18")x2	12"-24"
LPT 1	3.05	LPT	1	2	2	2	3	4	3	3	3	4	4	4	0	9	14	13	13	18	17
LPT 2	6.10	LPT	2	2	2	1	2	1	2	2	2	3	4	3	0	5	7	9	7	10	12
LPT 3	9.45	LPT	2	2	3	4	5	5	5	7	6	7	12	15	0	17	24	30	22	31	39
LPT 4	12.19	LPT	2	3	4	4	5	6	7	9	9	10	18	17	0	21	33	40	28	42	52



Project No. M09382A01
Project Name: Morrison Copper/Gold
Hole No. MW08-3
Date Sept. 26, 2008

PE Potential energy $PE = m \times g \times h$
KE Kinetic energy $KE = \frac{1}{2} \times m \times v^2$
ENTHRU Transfer energy
ER Energy ratio (30%) $ER = \frac{ENTHRU}{PE}$

A_T Split spoon tip bearing area
A_F Split spoon sampler bearing area
A_{TE} Effective sampler bearing area
R_F CPT friction ratio (0.35%)

$$A_T = \Pi \frac{(OD_{sampler}^2 - ID_{sampler}^2)}{4}$$
$$A_F = \Pi \times L \times ID_{sampler}$$
$$A_{TE} = A_T + A_F R_F$$
$$R_F = \frac{f_s}{q_c}$$

CORRECTION OF STANDARD PENETRATION TEST RESULTS

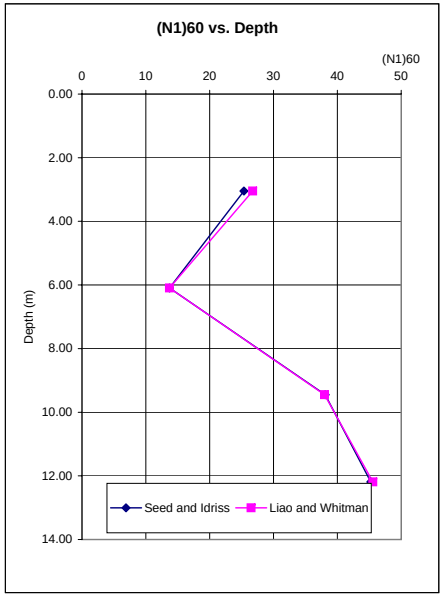
MW08-3

Generalized Stratigraphy

Soil Type	Bottom Depth (m)	Total Unit Weight (kN/m^3)	Effective Unit Weight (kN/m^3)
Glacial Till	14.78	20.00	10.00

Water Table 4.0
Efficiency (%) 104 (Assumed for Safety Hammer)

DRILL HOLE	TEST NAME	MIDDLE DEPTH (ft)	MIDDLE DEPTH (m)	FIELD N	N_{60}	SAMPLER CORRECTION	ROD LENGTH CORRECTION	TOTAL STRESS (kPa)	EFFECTIVE STRESS (kPa)	EFFECTIVE STRESS (tsf)	C_N Seed and Idriss	C_N Liao and Whitman	$(N_1)_{60}$ Seed and Idriss	$(N_1)_{60}$ Liao and Whitman
MW08-3	LPT-1	10	3.05	13	22	1.2	0.80	60.96	60.96	0.64	1.216	1.281	25	27
	LPT-2	20	6.10	7	12	1.2	0.95	121.92	100.96	1.05	0.996	0.995	14	14
	LPT-3	31	9.45	22	39	1.2	0.95	188.98	134.49	1.40	0.864	0.862	38	38
	LPT-4	40	12.19	28	48	1.2	1.00	243.84	161.92	1.69	0.780	0.786	45	46



VISUAL SOIL DESCRIPTION

USCS (Modified)

Test Hole	Sample No.	Depth (m)	Group Symbol	Group Name	Soil Classification
TP08-A	-	1	SM	Silty sand	Coarse to fine; trace fine subangular gravel, maximum size 9.5 mm; and low plasticity silt with low toughness, rapid dilatancy and medium dry strength, moist; brown; no reaction with HCl.
TP08-B	-	1	CL	Low-plasticity Clay	Trace fine sand; low plasticity, medium toughness, slow dilatancy and high dry strength, moist; dark grey; no reaction with HCl.
TP08-B	-	2	ML	Low-plasticity Silt	Trace fine to medium sand; low plasticity, low toughness, rapid dilatancy and low dry strength, moist; dark grey; no reaction with HCl.
TP08-B	-	3	GP	Poorly-graded Gravel	Fine gravel; subrounded, maximum size 19.0 mm; and coarse to fine sand; some silt with low toughness, rapid dilatancy and low dry strength, moist; dark grey; weak reaction with HCl.
TP08-B	-	3.2	CL	Low-plasticity Clay	Trace fine subangular gravel, maximum size 9.5 mm, some coarse to fine sand; medium plasticity, medium toughness, slow dilatancy and high dry strength, moist; brown; weak reaction with HCl.
TP08-C	-	1	CL	Low-plasticity Clay	Trace fine subangular gravel, maximum size 9.5 mm, some coarse to fine sand; medium plasticity, medium toughness, slow dilatancy and high dry strength, moist; brown; weak to strong reaction with HCl.
TP08-D	-	3	SM	Silty sand	Coarse to fine sand; fine gravel; and subangular, maximum size 19.0 mm; some silt, low plasticity, low toughness, rapid dilatancy and low dry strength, moist; brown; strong reaction with HCl.
TP08-E	-	1	CL	Low-plasticity Clay	Trace fine subangular gravel, maximum size 9.5 mm, sandy; medium plasticity, medium toughness, slow dilatancy and low dry strength, moist; brown; no reaction with HCl.
TP08-E	-	4	CL	Low-plasticity Clay	Trace fine to coarse subangular gravel, some coarse to fine sand, maximum size 19.0 mm; medium plasticity, medium toughness, slow dilatancy and high dry strength, moist; brown; weak to strong reaction with HCl.
TP08-F	-	1	CL	Low-plasticity Clay	Trace fine subangular gravel, maximum size 9.5 mm, sandy; medium plasticity, medium toughness, slow dilatancy and high dry strength, moist; brown; weak to strong reaction with HCl.
TP08-F	-	3	CL	Low-plasticity Clay	Sandy, maximum size 4.75 mm, medium plasticity, medium toughness, slow dilatancy and high dry strength, moist; brown; weak reaction with HCl.
TP08-H	-	1	SC	Clayey Sand	Trace fine subangular gravel, clayey, maximum size 9.5 mm; medium plasticity, medium toughness, slow to rapid dilatancy and medium dry strength, moist; dark brown; no reaction with HCl.
TP08-I	-	1	SC	Clayey Sand	Some coarse to fine subangular gravel, clayey, maximum size 38.2 mm; medium plasticity, medium toughness, slow dilatancy and medium dry strength, moist; brown; no reaction with HCl.
TP08-K	-	1	GM	Silty gravel	Coarse to fine gravel, sandy, trace silt; subrounded, maximum size 38.2 mm; no plasticity, low toughness, rapid dilatancy and low dry strength, moist;dark brown; no reaction with HCl.

Klohn Crippen Berger	JOB NO.:	M0382A01 01 03	
	PROJECT:	Morrison Copper/Gold Project	
	LOCATION:	Morrison Lake, Smithers, BC	
	DATE:	30-Oct-08	
	TESTED BY:	BY	CHECKED BY: JG

VISUAL SOIL DESCRIPTION

USCS (Modified)

Test Hole	Sample No.	Depth (m)	Group Symbol	Group Name	Soil Classification
TPA1	-	2	CL	Low-plasticity Clay	Trace fine subangular gravel, sandy, maximum size 9.5 mm; medium plasticity, medium toughness, slow dilatancy and high dry strength, moist; brown; no reaction with HCl.
TPA1	-	4.8	CI	Medium-plasticity Clay	Trace fine subangular gravel, trace sand, maximum size 9.5 mm; high plasticity, medium toughness, slow dilatancy and high dry strength, moist; brown; weak to strong reaction with HCl.
TPA3	-	5.8	SC	Clayey Sand	Trace fine subangular and subrounded gravel, clayey, maximum size 9.5 mm; medium plasticity, medium toughness, slow dilatancy and medium dry strength, moist; brown; weak to strong reaction with HCl.
TPA4	-	1	CI	Medium-plasticity Clay	Trace fine sand; high plasticity, medium toughness, slow dilatancy and high dry strength, moist; brown; no reaction with HCl.
TPA4	-	4.3	CI	Medium-plasticity Clay	Some fine subangular gravel, some sand, maximum size 9.5 mm; high plasticity, medium toughness, slow dilatancy and high dry strength, moist; brown; strong reaction with HCl.

Klohn Crippen Berger

JOB NO.:	M0382A01 01 03	
PROJECT:	Morrison Copper/Gold Project	
LOCATION:	Smithers, BC	
DATE:	30-Oct-08	
TESTED BY:	BY	CHECKED BY: JG

VISUAL SOIL DESCRIPTION

USCS (Modified)

Test Hole	Sample No.	Depth (m)	Group Symbol	Group Name	Soil Classification
DH08-1	SPT 2	2.7	CI	Medium-plasticity Clay	Trace fine subangular gravel, trace sand, maximum size 4.75 mm; medium plasticity, medium toughness, slow dilatancy and high dry strength, moist; brown; strong reaction with HCl.
DH08-1	SPT 5	7.3	CI	Medium-plasticity Clay	Some fine subrounded gravel, some sand, maximum size 19.0 mm; medium plasticity, medium toughness, slow dilatancy and high dry strength, moist; brown; firm, weak to strong reaction with HCl.
DH08-1	SPT 7	10.4	CI	Medium-plasticity Clay	Trace fine subangular gravel, some sand, maximum size 9.5 mm; medium plasticity, medium toughness, slow dilatancy and high dry strength, moist; brown; firm, weak to strong reaction with HCl.
DH08-2	SPT-2	1.2	CI	Medium-plasticity Clay	Trace fine subangular gravel, some sand, maximum size 9.5 mm; medium plasticity, medium toughness, slow dilatancy and high dry strength, moist; brown; firm, strong reaction with HCl.
DH08-2	SPT-5	5.8	GM	Silty Gravel	Coarse to fine subangular gravel,some sand, some silt, maximum size 38.2 mm; none to low plasticity, low toughness, rapid dilatancy and low dry strength, moist;dark grey; weak reaction with HCl.
MW08-1	SPT-2	1.2	SC	Clayey Sand	Coarse to fine sand, clayey, some fine to coarse subangular gravel, maximum size 38.2 mm; medium plasticity, medium toughness, slow dilatancy and medium dry strength, moist; brown; firm, weak reaction with HCl.
MW08-1	LPT-5	10.1	SC	Clayey Sand	Coarse to fine sand, clayey, trace fine subangular gravel, maximum size 19.0 mm; medium plasticity, medium toughness, slow dilatancy and high dry strength, moist; brown; firm, weak to strong reaction with HCl.
MW08-1	LPT-8	19.5	SC	Clayey Sand	Coarse to fine sand, clayey, trace fine subangular gravel, maximum size 9.5 mm; medium plasticity, medium toughness, slow to rapid dilatancy and medium to high dry strength, moist; brown; soft; weak reaction with HCl.
MW08-1	LPT-13	42.4	SC	Clayey Sand	Coarse to fine sand, clayey, some fine subangular gravel, maximum size 19.1 mm; medium plasticity, medium toughness, slow dilatancy and medium to high dry strength, moist; brown; soft; weak reaction with HCl.
MW08-3	LPT-1	2.7	GM	Silty Gravel	Fine subangular gravel, some sand, trace silt, maximum size 19.0 mm; none to low plasticity, low toughness, rapid dilatancy and low dry strength, moist;dark brown; no reaction with HCl.
MW08-3	LPT-4	11.9	CL	Low-plasticity Clay	Trace fine subangular gravel, some sand, maximum size 19.0 mm; medium plasticity, medium toughness, slow dilatancy and high dry strength, moist; brown; firm; weak reaction with HCl.

Klohn Crippen Berger

JOB NO.:	M0382A01 01 03	
PROJECT:	Morrison Copper/Gold Project	
LOCATION:	Smithers, BC	
DATE:	30-Oct-08	
TESTED BY:	BY	CHECKED BY: JG

WATER CONTENT OF SOIL

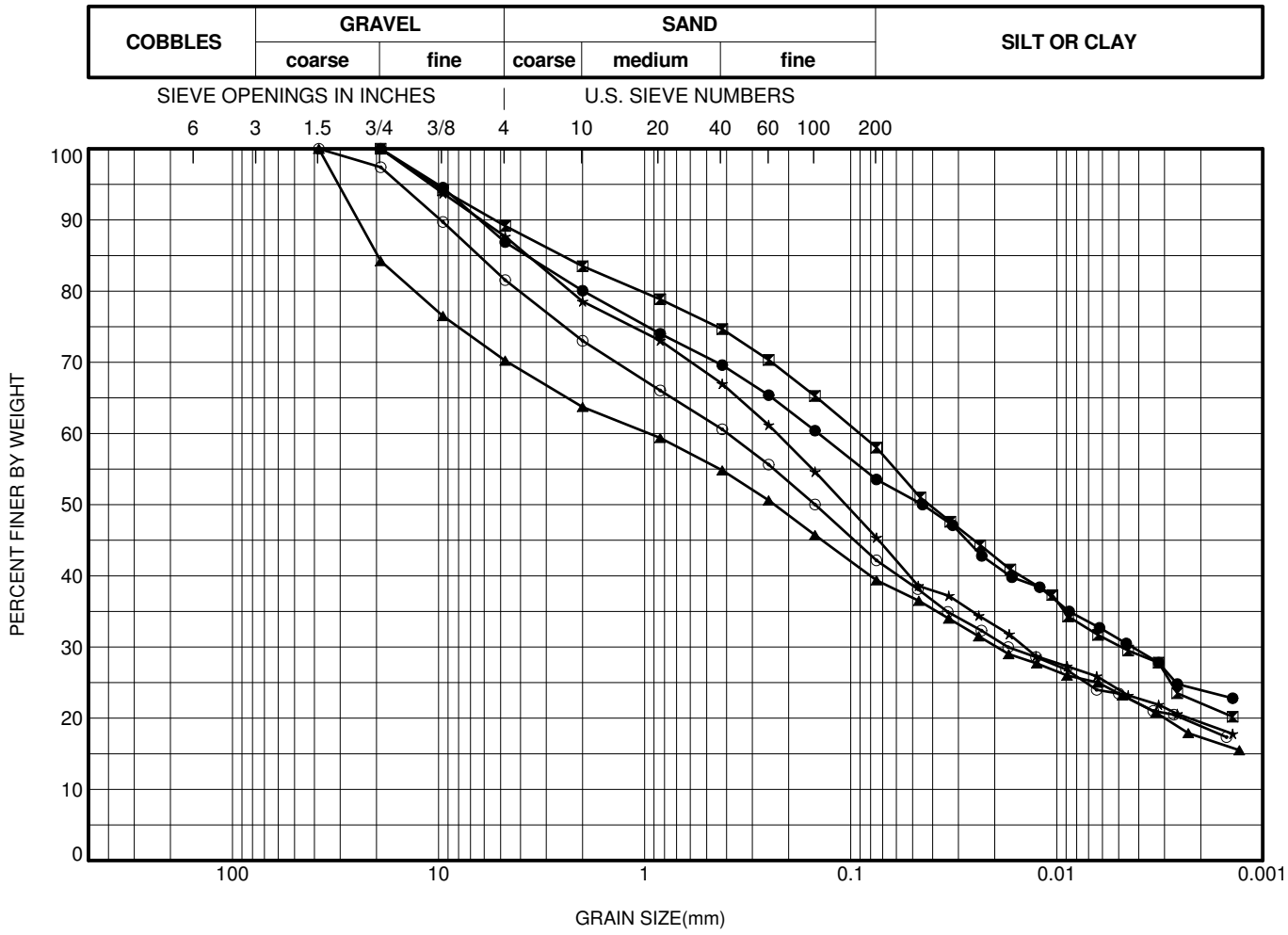
(ASTM D2216)

Hole Number	Sample Number	Depth (m)	ID Number	Wet Weight + Tare (g)	Dry Weight + Tare (g)	Tare (g)	Water Weight (g)	Total Dry Weight (g)	Water Content (%)
DH08-1	SPT 1	1.2		289.89	271.86	113.95	18.03	157.91	11.4
DH08-1	SPT 2	2.7		219.77	207.1	113.4	12.67	93.7	13.5
DH08-1	SPT 4	5.7		215.52	205.35	111.5	10.17	93.85	10.8
DH08-1	SPT 5	7.3		202.66	193.83	102.39	8.83	91.44	9.7
DH08-1	SPT 6	8.8		225.8	217.26	134.32	8.54	82.94	10.3
DH08-1	SPT 7	10.4		215.13	204.74	114.51	10.39	90.23	11.5
DH08-1	SPT 8	11.9		193.66	184.32	92.24	9.34	92.08	10.1
DH08-1	SPT 9	13.4		215.47	202.66	111.4	12.81	91.26	14.0
DH08-2	SPT- 1	0.6		123.56	116.42	28.48	7.14	87.94	8.1
DH08-2	SPT- 2	1.2		114.9	106.42	29.22	8.48	77.2	11.0
DH08-2	SPT- 3	2.7		128.22	118.06	29.09	10.16	88.97	11.4
DH08-2	SPT- 4	4		133.63	123.66	29.5	9.97	94.16	10.6
DH08-2	SPT- 5	5.8		166.86	159.93	24.83	6.93	135.1	5.1
MW08-1	SPT-1	0.6		233.5	222.97	115.64	10.53	107.33	9.8
MW08-1	SPT-2	1.2		128.62	119.94	24.86	8.68	95.08	9.1
MW08-1	LPT-3	4.3		109.78	101.91	29.66	7.87	72.25	10.9
MW08-1	LPT-4	7.3		118.32	108.6	18.32	9.72	90.28	10.8
MW08-1	LPT-5	10.1		122.68	112.08	17.55	10.6	94.53	11.2
MW08-1	LPT-6	13.1		232.05	220.3	116.62	11.75	103.68	11.3
MW08-1	LPT-7	16.5		158.35	143.59	24.55	14.76	119.04	12.4
MW08-1	LPT-8	19.5		94.44	85.64	9.55	8.8	76.09	11.6
MW08-1	LPT-9	22.6		112.16	100.85	9	11.31	91.85	12.3
MW08-1	LPT-10	27.1		113.9	102.5	16.13	11.4	86.37	13.2
MW08-1	LPT-11	31.7		112.12	100.37	12.75	11.75	87.62	13.4
MW08-1	LPT-12	36.3		119.39	107.41	8.997	11.98	98.413	12.2
MW08-1	LPT-13	42.4		112.63	101.34	9.33	11.29	92.01	12.3
MW08-1	LPT-14	48.5		113.15	87.4	9.33	25.75	78.07	33.0
MWO8-3	LPT-1	2.7		145.06	134.96	29.4	10.1	105.56	9.6
MWO8-3	LPT-2	5.8		219.22	200.56	116.87	18.66	83.69	22.3
MWO8-3	LPT-3	9.1		204.65	192.87	88.77	11.78	104.1	11.3
MWO8-3	LPT-4	11.9		218.54	206.73	105.25	11.81	101.48	11.6
TP08-A		1		223.12	210.29	120.5	12.83	89.79	14.3
TP08-A		2		216.92	207.17	107.39	9.75	99.78	9.8
TP08-B		1		222.08	202.49	118.13	19.59	84.36	23.2
TP08-B		2		324.33	280.03	110.27	44.3	169.76	26.1
TP08-B		3		355.12	338.76	130.56	16.36	208.2	7.9
TP08-B		3.2		274.97	255.63	123.7	19.34	131.93	14.7
TP08-C		1		280.51	265.41	129.92	15.1	135.49	11.1
TP08-C		2		255.55	238.95	122.05	16.6	116.9	14.2
TP08-D		1		281.67	262.44	120.24	19.23	142.2	13.5
TP08-D		2		261.04	252.44	117.34	8.6	135.1	6.4
TP08-D		3		274.18	266.23	121.58	7.95	144.65	5.5
TP08-E		1		236.68	217.35	105.7	19.33	111.65	17.3
TP08-E		2		225.13	210.05	103.65	15.08	106.4	14.2
TP08-E		2.6		234.68	220.11	100.9	14.57	119.21	12.2
TP08-E		4		247.47	234.98	95.24	12.49	139.74	8.9
TP08-F		1		217.26	201.47	95.98	15.79	105.49	15.0
TP08-F		2		320.4	288.63	95.96	31.77	192.67	16.5
TP08-F		3		231.1	212.02	97.08	19.08	114.94	16.6
TP08-H		1		242.9	225.95	118.15	16.95	107.8	15.7
TP08-H		2		200.04	189.7	113.02	10.34	76.68	13.5
TP08-H		3		262.58	240.77	107.4	21.81	133.37	16.4
TP08-I		1		269.3	252.28	109.23	17.02	143.05	11.9
TP08-I		1.5		959.58	879.4	107.03	80.18	772.37	10.4
TP08-I		2		341.4	309.36	102.72	32.04	206.64	15.5
TP08-I		2.5		305.46	286.71	109.3	18.75	177.41	10.6
TP08-J		1		293.74	273.34	97.75	20.4	175.59	11.6
TP08-J		2		267.07	250.1	129.25	16.97	120.85	14.0
TP08-K		1		762.1	722.4	90.75	39.7	631.65	6.3
TP08-K		2		252.57	234.8	99.75	17.77	135.05	13.2
TP08-K		3		302.14	281.49	103.45	20.65	178.04	11.6
TP08-L		1		232.27	222.34	107.23	9.93	115.11	8.6
TP08-M		1		224.67	210.49	105.68	14.18	104.81	13.5
TP08-N		1		189.96	180.7	82.07	9.26	98.63	9.4
TPA1		2		222.63	204.64	80.6	17.99	124.04	14.5
TPA1		4.8		234.88	217	103.64	17.88	113.36	15.8
TPA2		0.5		370.79	332.48	116.88	38.31	215.6	17.8
TPA3		5.8		185.64	176.15	103.05	9.49	73.1	13.0
TPA4		1		244.83	214.29	97.42	30.54	116.87	26.1
TPA4		4.3		267.97	252.05	118.16	15.92	133.89	11.9

Klohn Crippen Berger

JOB NO.:	M09382A01 01 03		
PROJECT:	Morrison Copper/Gold Project		
LOCATION:	Smithers, BC		
DATE:	Oct 27, 2008		
TESTED BY:	CG/MC	CHECKED BY:	BY

GRAIN SIZE DISTRIBUTION



	HOLE	DEPTH (m)	D85	D60	D50	D15	D10	CU	%GRAVEL	%SAND	%FINES
●	DH08-1	5.70	3.742	0.143					13.1	33.3	53.5
⊠	DH08-1	13.40	2.515	0.090					10.9	31.1	58.0
▲	DH08-2	4.00	19.761	0.952	0.234				29.8	30.9	39.4
★	MW08-1	24.10	3.686	0.228	0.106				12.3	42.3	45.4
⊙	MW08-1	31.70	6.372	0.395	0.149				18.4	39.4	42.2

	HOLE	SAMPLE	DEPTH (m)	W%	W_L	W_P	PI	REMARKS / SAMPLE DESCRIPTION
●	DH08-1	SPT 4	5.70		32	14	18	
⊠	DH08-1	SPT 9	13.40		31	14	17	
▲	DH08-2	SPT- 4	4.00		29	13	15	
★	MW08-1	Shelby-1	24.10		28	13	15	
⊙	MW08-1	LPT-11	31.70		26	13	13	

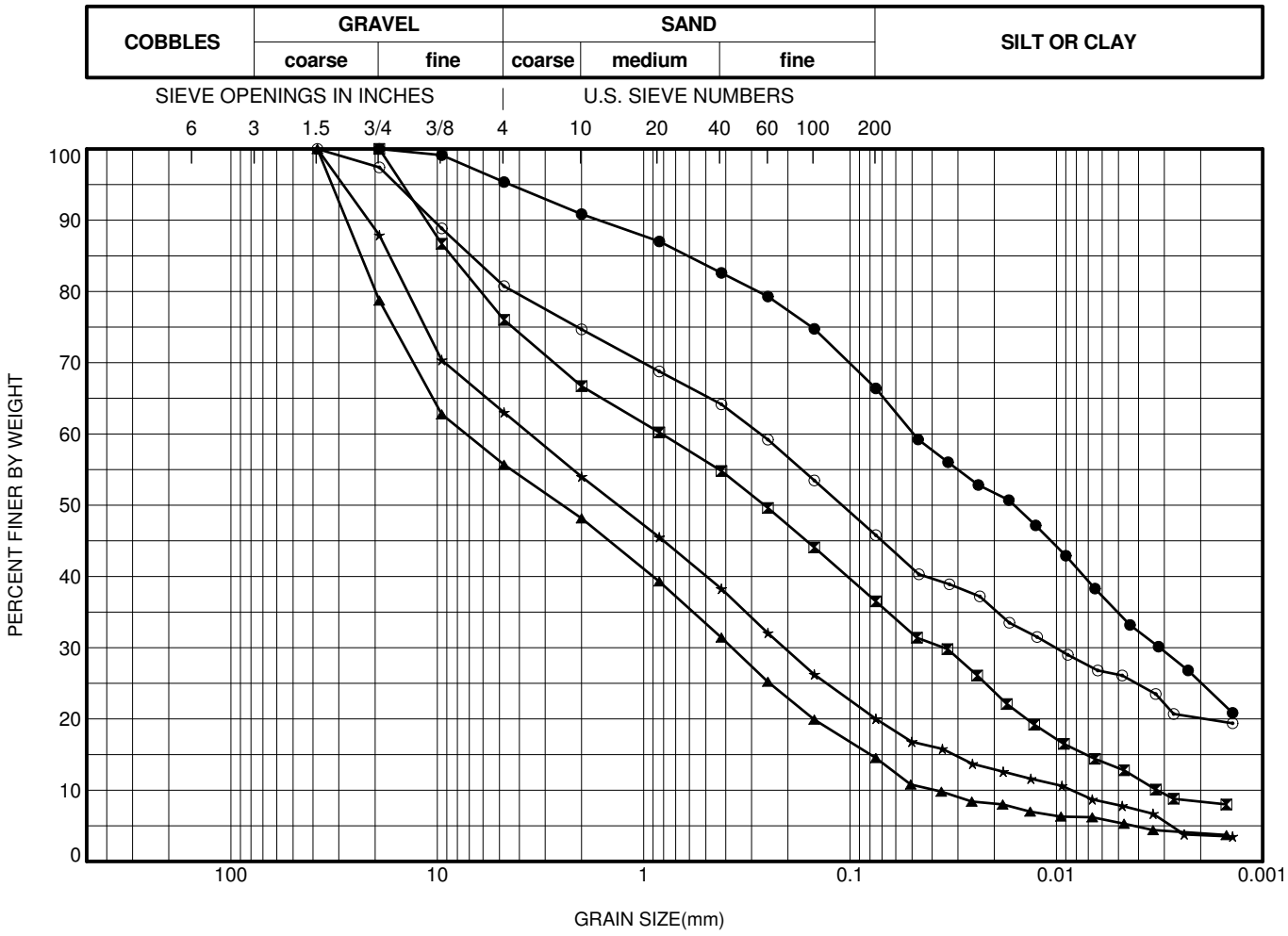
CU = COEFFICIENT OF UNIFORMITY = D60/D10 **PARTICLE SIZES, e.g. D85, in mm** **Tested by Wet Sieving Method (ASTM D1140 & D422)**

Klohn Crippen Berger

PROJECT NO.: M09382A01 01 03
PROJECT: Morrison Copper/Gold Project
LOCATION: Smithers, BC
FIGURE:
DRAWN BY: CG **CHECKED BY:** JG

KCB_GRAIN_SIZE-SI M09382A01 MORRISON_ORDER 0852.GPJ SIEVE.GDT 12/5/08

GRAIN SIZE DISTRIBUTION



	HOLE	DEPTH (m)	D85	D60	D50	D15	D10	CU	%GRAVEL	%SAND	%FINES
●	MW08-3	5.80	0.612						4.6	29.0	66.4
⊠	TP08-A	2.00	8.528	0.817	0.260				24.0	39.5	36.5
▲	TP08-B	3.00	23.414	7.258	2.470	0.080			44.3	41.2	14.5
★	TP08-D	2.00	17.025	3.556	1.329				37.0	43.0	20.0
⊙	TP08-E	2.60	6.843	0.272	0.109				19.3	34.9	45.8

	HOLE	SAMPLE	DEPTH (m)	W%	W_L	W_P	PI	REMARKS / SAMPLE DESCRIPTION
●	MW08-3	LPT-2	5.80		25	14	11	
⊠	TP08-A		2.00		24	16	8	
▲	TP08-B		3.00					
★	TP08-D		2.00					
⊙	TP08-E		2.60		29	15	14	

CU = COEFFICIENT OF UNIFORMITY = D60/D10 **PARTICLE SIZES, e.g. D85, in mm** **Tested by Wet Sieving Method (ASTM D1140 & D422)**

Klohn Crippen Berger

PROJECT NO.: M09382A01 01 03

PROJECT: Morrison Copper/Gold Project

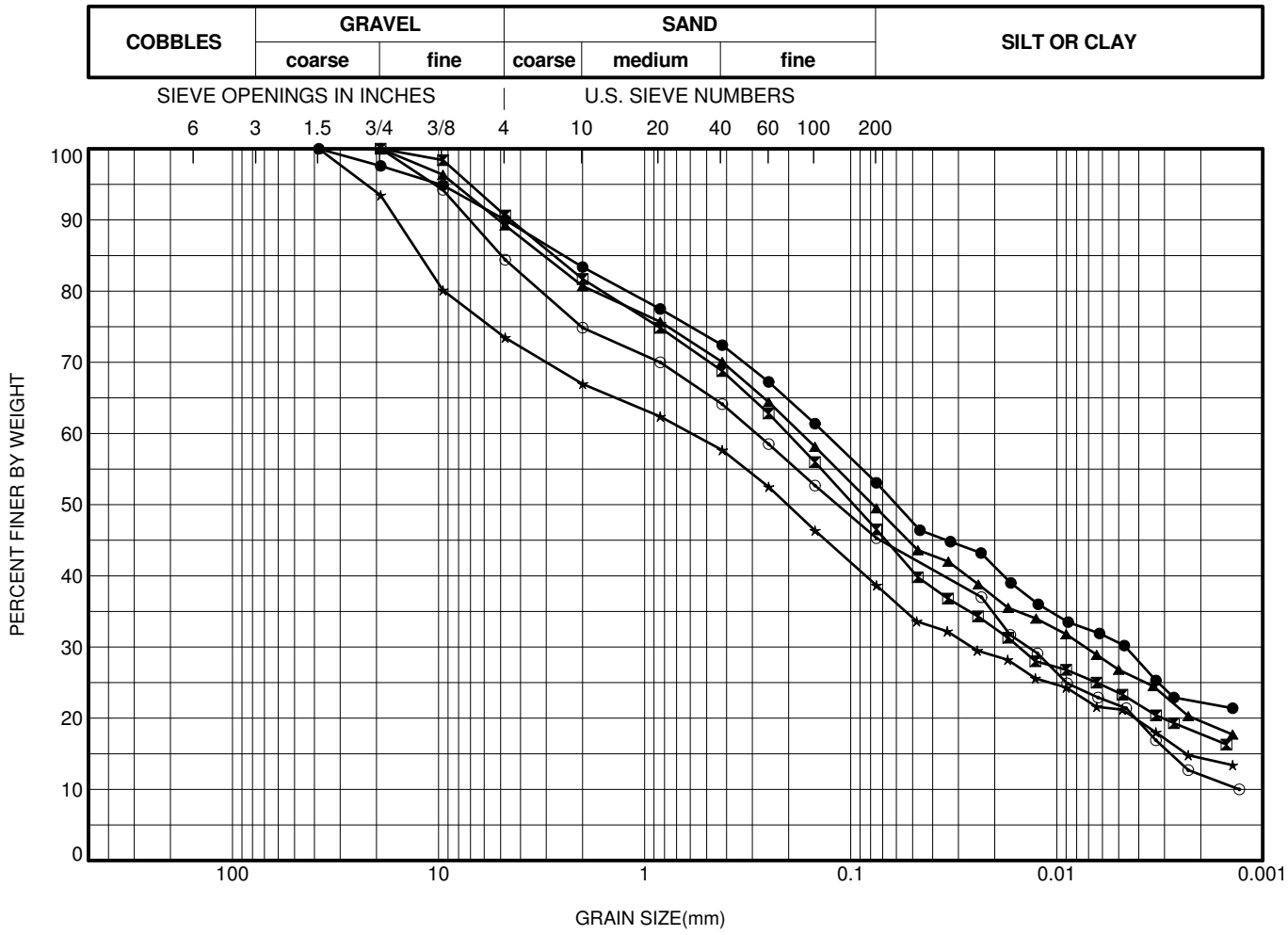
LOCATION: Smithers, BC

FIGURE:

DRAWN BY: CG **CHECKED BY:** JG

KCB_GRAIN_SIZE-SI M09382A01 MORRISON_ORDER 0852.GPJ SIEVE.GDT 12/5/08

GRAIN SIZE DISTRIBUTION



	HOLE	DEPTH (m)	D85	D60	D50	D15	D10	CU	%GRAVEL	%SAND	%FINES
●	TP08-F	2.00	2.470	0.133					10.0	36.9	53.1
⊠	TP08-H	2.00	2.754	0.202	0.097				9.4	44.1	46.5
▲	TP08-H	3.00	3.089	0.174	0.078				10.8	39.8	49.5
★	TP08-I	2.00	12.278	0.592	0.203				26.5	34.8	38.6
⊙	TP08-J	1.00	4.952	0.287	0.116				15.6	39.1	45.3

	HOLE	SAMPLE	DEPTH (m)	W%	W_L	W_P	PI	REMARKS / SAMPLE DESCRIPTION
●	TP08-F		2.00		29	14	15	
⊠	TP08-H		2.00		23	12	10	
▲	TP08-H		3.00					
★	TP08-I		2.00					
⊙	TP08-J		1.00		27	20	8	

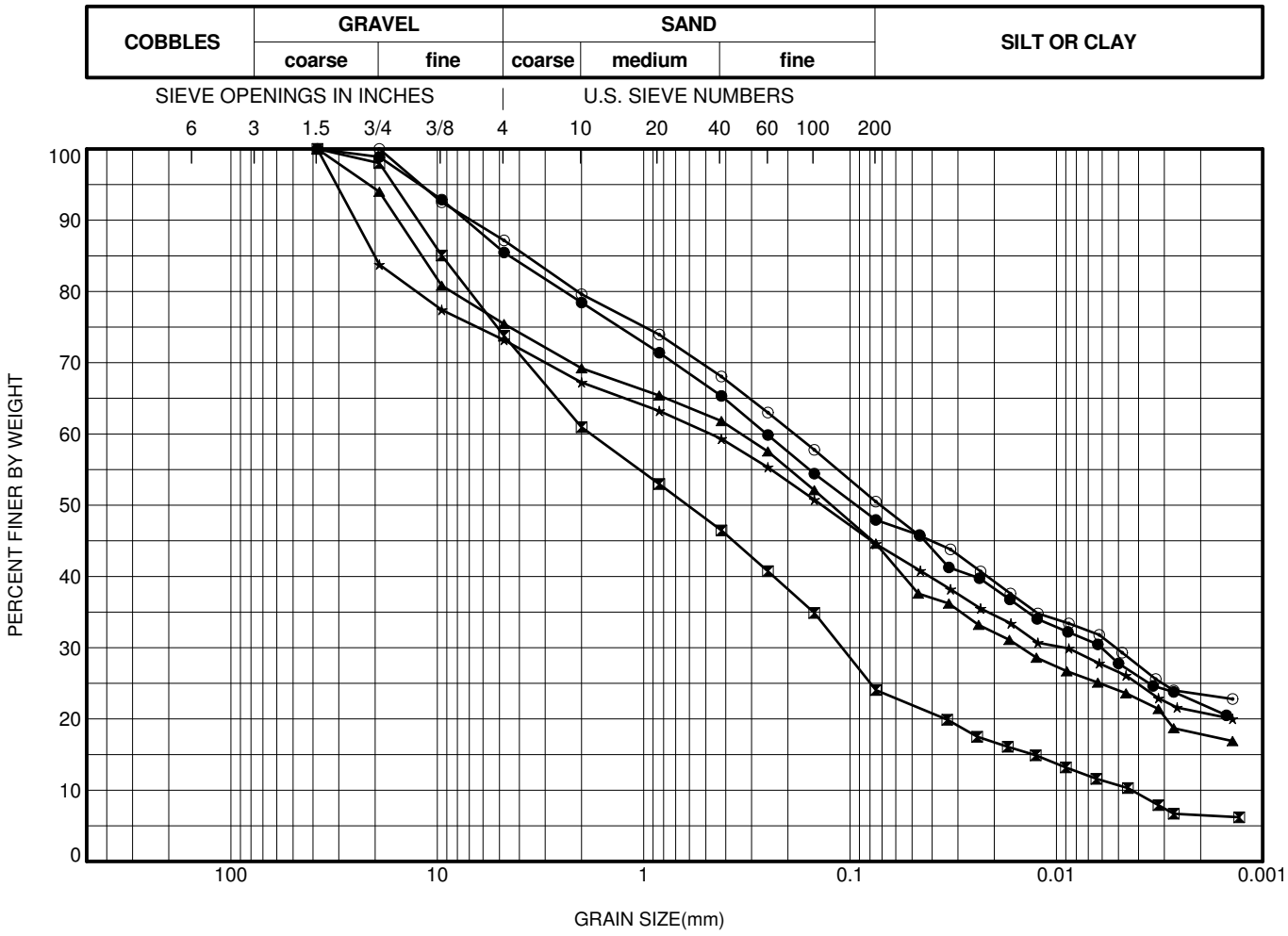
CU = COEFFICIENT OF UNIFORMITY = D60/D10 **PARTICLE SIZES, e.g. D85, in mm** **Tested by Wet Sieving Method (ASTM D1140 & D422)**

Klohn Crippen Berger

PROJECT NO.: M09382A01 01 03
PROJECT: Morrison Copper/Gold Project
LOCATION: Smithers, BC
FIGURE:
DRAWN BY: CG **CHECKED BY:** JG

KCB_GRAIN_SIZE-SI M09382A01 MORRISON_ORDER 0852.GPJ SIEVE.GDT 12/5/08

GRAIN SIZE DISTRIBUTION



	HOLE	DEPTH (m)	D85	D60	D50	D15	D10	CU	%GRAVEL	%SAND	%FINES
●	TP08-J	2.00	4.482	0.254	0.093				14.5	37.5	47.9
⊠	TP08-K	2.00	9.491	1.804	0.612				26.2	49.7	24.1
▲	TP08-L	1.00	11.876	0.337	0.123				24.6	30.8	44.6
★	TP08-M	1.00	20.131	0.474	0.137				26.8	28.6	44.6
⊙	TP08-N	1.00	3.708	0.186					12.8	36.7	50.5

	HOLE	SAMPLE	DEPTH (m)	W%	W_L	W_P	PI	REMARKS / SAMPLE DESCRIPTION
●	TP08-J		2.00		40	21	19	
⊠	TP08-K		2.00		22	15	7	
▲	TP08-L		1.00		30	16	14	
★	TP08-M		1.00		32	16	16	
⊙	TP08-N		1.00		32	16	16	

CU = COEFFICIENT OF UNIFORMITY = D60/D10 **PARTICLE SIZES, e.g. D85, in mm** **Tested by Wet Sieving Method (ASTM D1140 & D422)**

Klohn Crippen Berger

PROJECT NO.: M09382A01 01 03

PROJECT: Morrison Copper/Gold Project

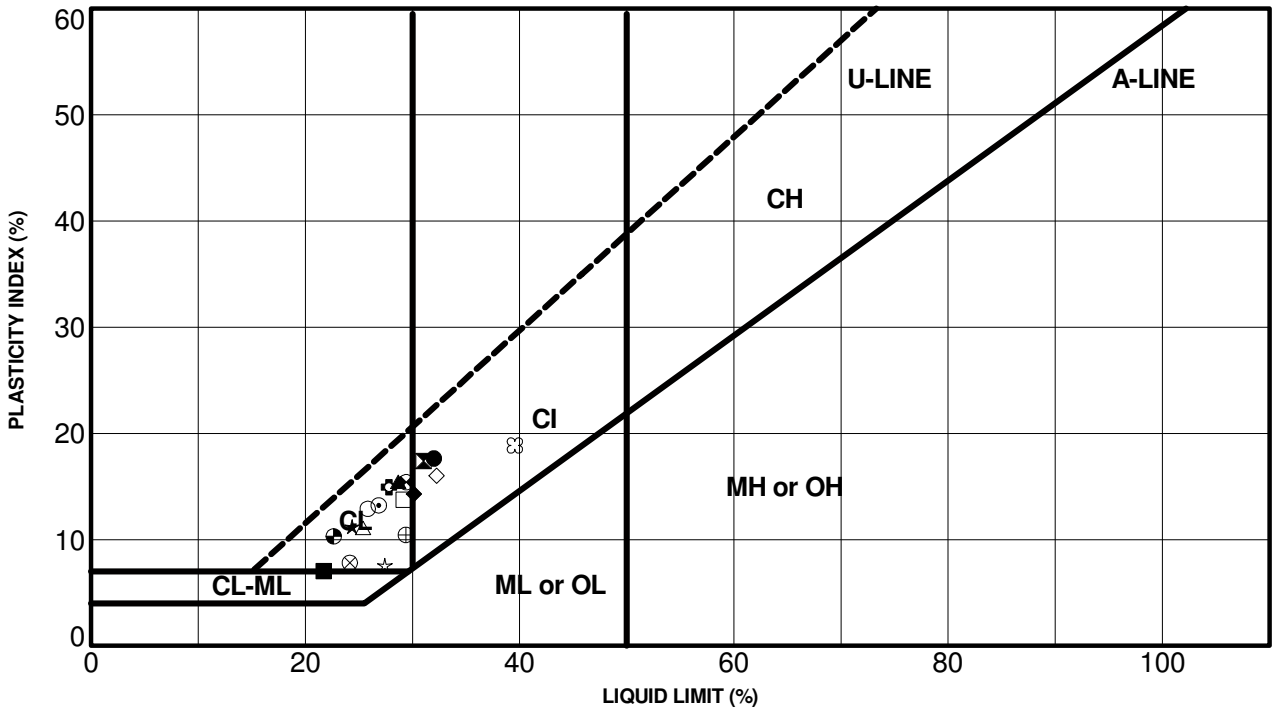
LOCATION: Smithers, BC

FIGURE:

DRAWN BY: CG **CHECKED BY:** JG

KCB_GRAIN_SIZE-SI M09382A01 MORRISON_ORDER 0852.GPJ SIEVE.GDT 12/5/08

PLASTICITY CHART



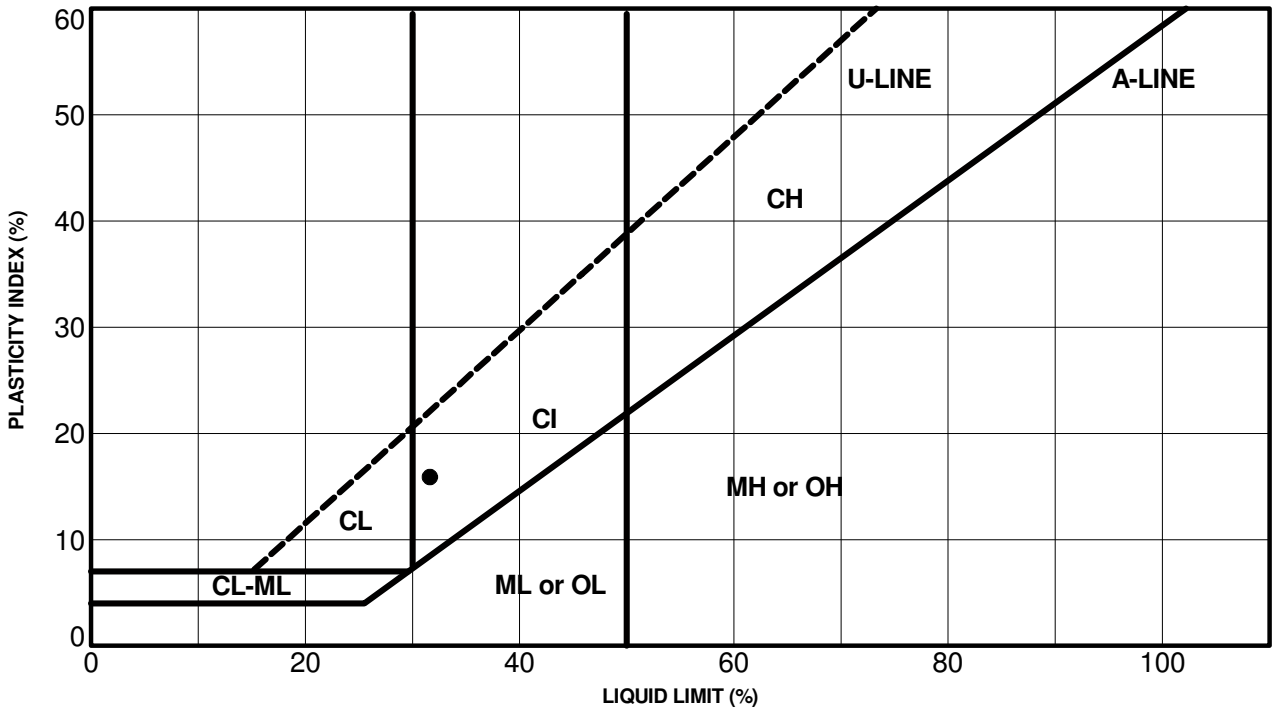
	HOLE	SAMPLE	DEPTH (ft)	W_L	W_P	PI	% FINES	REMARKS/SAMPLE DESCRIPTION
●	DH08-1	SPT 4	5.7	32	14	18		
⧓	DH08-1	SPT 9	13.4	31	14	17		
▲	DH08-2	SPT- 4	4.0	29	13	15		
★	MW08-1	LPT-3	4.3	24	13	11		
⊙	MW08-1	LPT-7	16.5	27	14	13		
✿	MW08-1	Shelby-1	24.1	28	13	15		
○	MW08-1	LPT-11	31.7	26	13	13		
△	MW08-3	LPT-2	5.8	25	14	11		
⊗	TP08-A		2.0	24	16	8		
⊕	TP08-B		1.0	29	19	10		
□	TP08-E		2.6	29	15	14		
⊛	TP08-F		2.0	29	14	15		
◕	TP08-H		2.0	23	12	10		
☆	TP08-J		1.0	27	20	8		
⊠	TP08-J		2.0	40	21	19		
■	TP08-K		2.0	22	15	7		
◆	TP08-L		1.0	30	16	14		
◇	TP08-M		1.0	32	16	16		

Klohn Crippen Berger

PROJECT NO.: M09382A01 01 03
PROJECT: Morrison Copper/Gold Project
LOCATION: Smithers, BC
FIGURE:
DRAWN BY: CG **CHECKED BY:** JG

KCB_ATTERBERG-IMP M09382A01 MORRISON_ORDER 0852.GPJ SIEVE.GDT 12/5/08

PLASTICITY CHART



	HOLE	SAMPLE	DEPTH (ft)	W_L	W_P	PI	% FINES	REMARKS/SAMPLE DESCRIPTION
●	TP08-N		1.0	32	16	16		

Klohn Crippen Berger

PROJECT NO.: M09382A01 01 03
PROJECT: Morrison Copper/Gold Project
LOCATION: Smithers, BC
FIGURE:
DRAWN BY: CG **CHECKED BY:** JG

KCB_ATTERBERG-IMP M09382A01 MORRISON_ORDER 0852.GPJ SIEVE.GDT 12/5/08

CONSOLIDATION TEST

PROJECT NO: M09382A01 01 03
PROJECT: Morrison
SAMPLE NO.: MW08-01 (Shelby)
DEPTH: 79'
LOADING MACHINE NO.: CS 1

Initial water content : 11.81 % (based on trimmings)
Final water content : 9.71 % (based on sample at end of test)

Initial Specimen Height (mm): 18.730
Height of Solid (mm): 14.310 (Initial dry mass = 146.44 g, Specimen area = 3861.7 mm^2, SG=2.65)
Initial void ratio: 0.309
Void Ratio Factor 0.0699

* Calibration to be done after test
** Estimated t_{90}

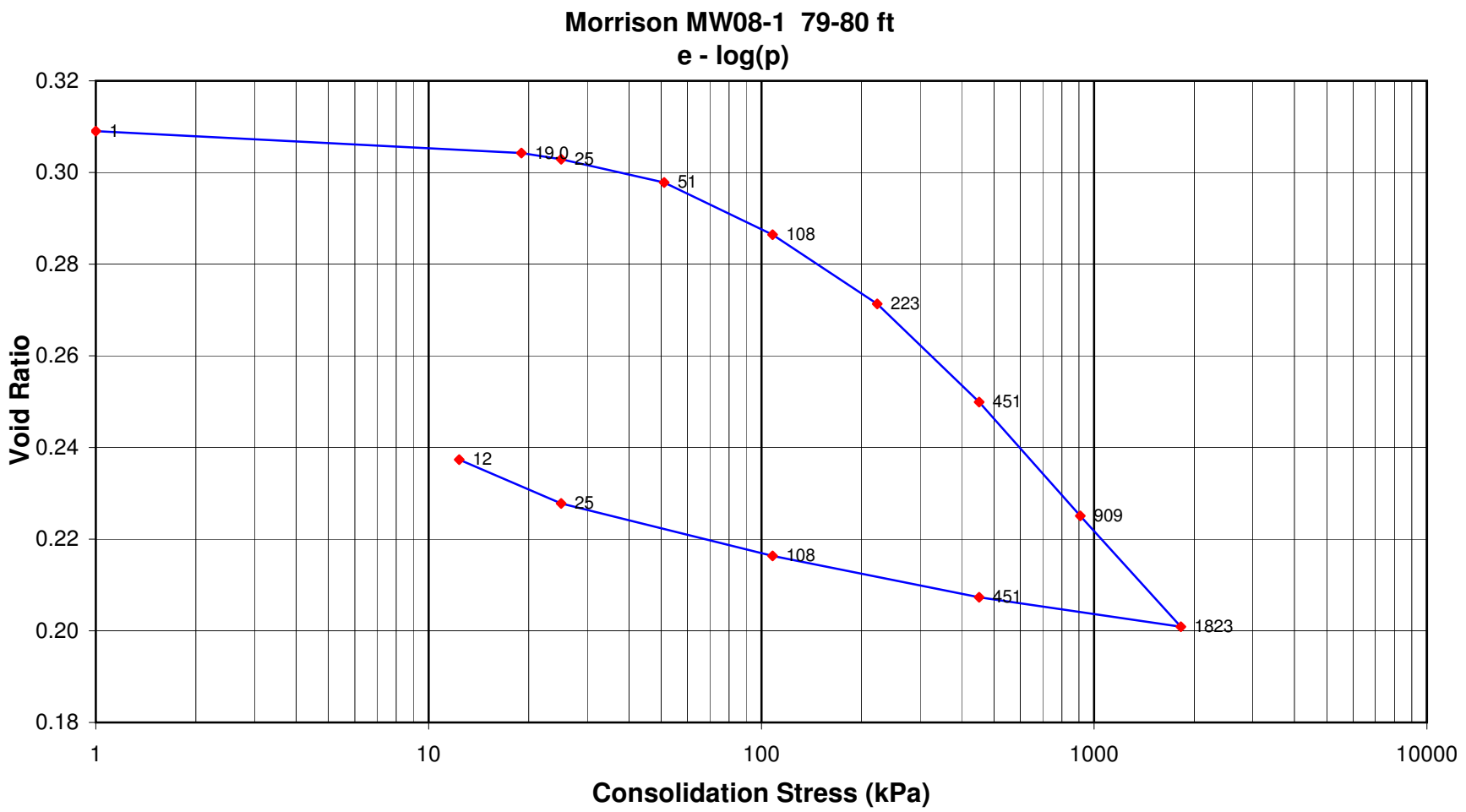
Pressure (kPa)		Change in Height	Final	Change in	Change in	Void	t_{90}**	Cv	Mv	k	Cc
From	To	Corrected (mm)	Height (mm)	Void Ratio	Void Ratio Acc	Ratio	(min)	(cm^2/sec)	(cm^2/N)	(cm/sec)	
0.0	**19.0**	0.06799	18.662	0.0048	0.0048	**0.304**					
19.0	**25**	0.020	18.642	0.0014	0.0061	**0.303**	6.3	2.0E-03	5.5E-04	1.1E-08	**0.012**
25	**51**	0.073	18.570	0.0051	0.0112	**0.298**	4.6	2.7E-03	6.5E-03	1.7E-07	**0.016**
51	**108**	0.1627	18.407	0.0114	0.0226	**0.286**	1.7	7.1E-03	3.4E-03	2.3E-07	**0.035**
108	**223**	0.21578	18.191	0.0151	0.0377	**0.271**	4.0	3.0E-03	2.1E-03	6.0E-08	**0.048**
223	**451**	0.307	17.885	0.0214	0.0591	**0.250**	4.0	2.9E-03	1.5E-03	4.1E-08	**0.070**
451	**909**	0.355	17.529	0.0248	0.0839	**0.225**	3.3	3.4E-03	8.7E-04	2.9E-08	**0.082**
909	**1823**	0.346	17.183	0.0242	0.1081	**0.201**	2.3	4.7E-03	4.3E-04	2.0E-08	**0.080**
1823	**451**	-0.092	17.275	-0.0064	0.1017	**0.207**					
451	**108**	-0.129	17.404	-0.0090	0.0927	**0.216**					
108	**25**	-0.164	17.568	-0.0115	0.0812	**0.228**					
25	**12**	-0.1368	17.705	-0.0096	0.0716	**0.237**					

Klohn Crippen Berger

PROJECT NO: M09382A01 01 03
PROJECT: Morrison Copper/Gold Project
LOCATION: Smithers, BC
FIGURE: DATE TESTED: October 24 , 2008
TESTED BY: Juan CHECKED BY: Bin Y.

CONSOLIDATION TEST

PROJECT NO:	M09382A01 01 03
PROJECT:	Morrison
SAMPLE NO.:	MW08-01 (Shelby)
DEPTH:	79'



Klohn Crippen Berger

PROJECT NO: M09382A01 01 03	
PROJECT: Morrison Copper/Gold Project	
LOCATION: Smithers, BC	
FIGURE:	DATE TESTED: October 24 , 2008
TESTED BY: Juan	CHECKED BY: Bin Y.

Triaxial Test Summary

Klohn Crippen Berger

PROJECT NO M09382A01 01 03
PROJECT : Morrison Copper/Gold Project
SAMPLE : MW08-01 @ 79' - 80'
DATE : October 29, 2008
TEST BY: BY
CHECKED BY JG

SPECIMEN INFORMATION	UNITS	Stage 1	Stage 2	Stage 3
Date: Nov 05, 2008				
Initial Water Content	%	9.9	-	-
Initial Dry Density	kg/m^3	2132	-	-
Final Water Content	%	-	-	7.8
Skempton's B Parameter		1.00	1.00	1.00
Back Pressure	kPa	146	146	146
Consolidation Stress (σ_3')	kPa	200	500	1000
End of Consolidation / Start of shear				
Dry Density	kg/m^3	2203	2267	2298
Specimen Height	mm	137.4	127.8	116.8
Specimen Area	mm^2	4032.9	4215.8	4548.5

Extrude sample from tube

Remove a large gravel piece from top

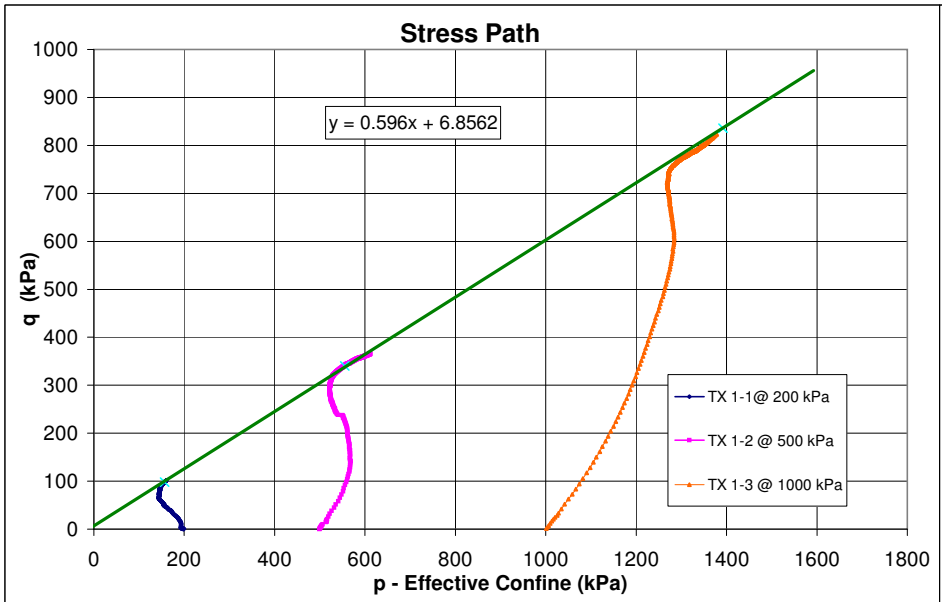
Before test

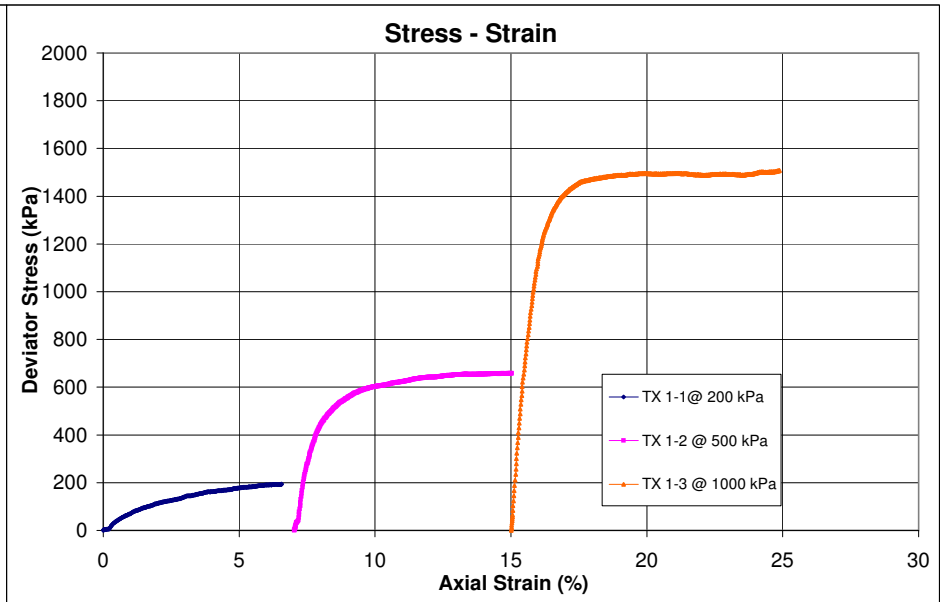
After test

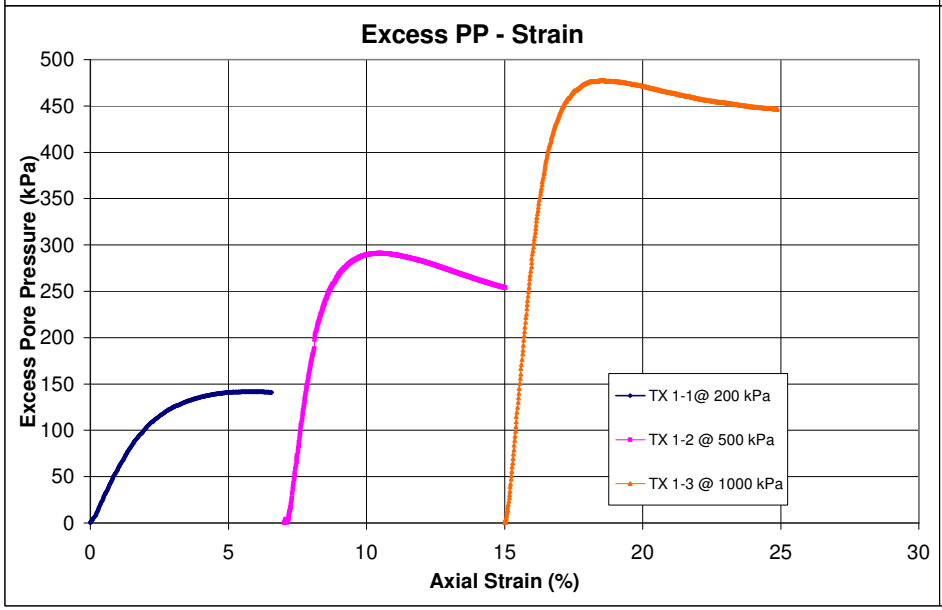
Triaxial Test Summary

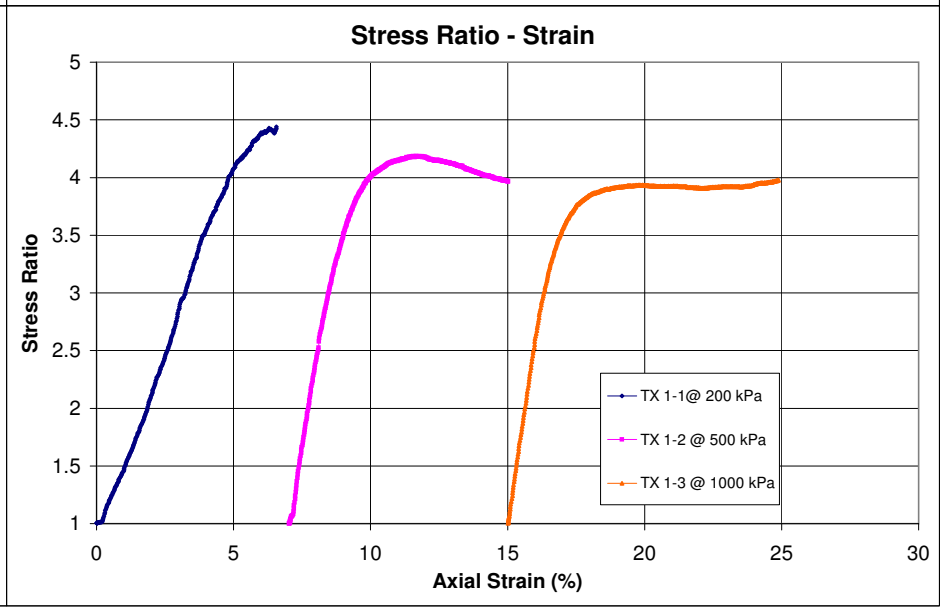
Klohn Crippen Berger

PROJECT NO. :	M09382A01 01 03
PROJECT :	Morrison Copper/Gold Project
SAMPLE :	MW08-01 @ 79' - 80'
DATE :	October 29, 2008
TEST BY:	BY
CHECKED BY:	JG

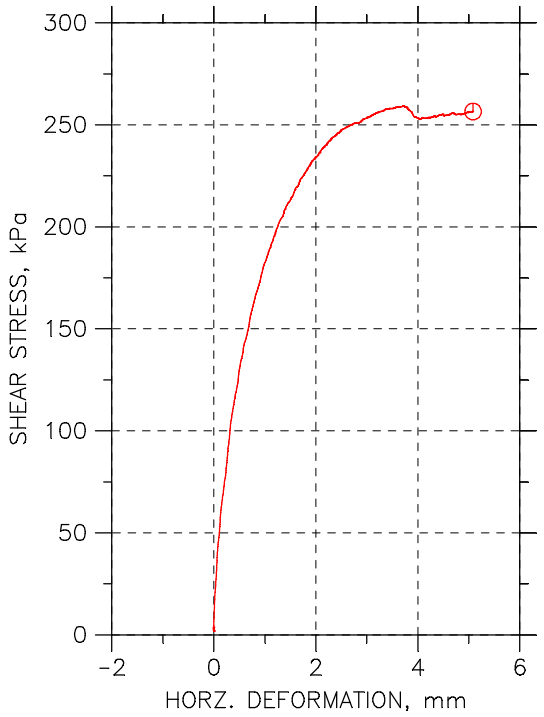


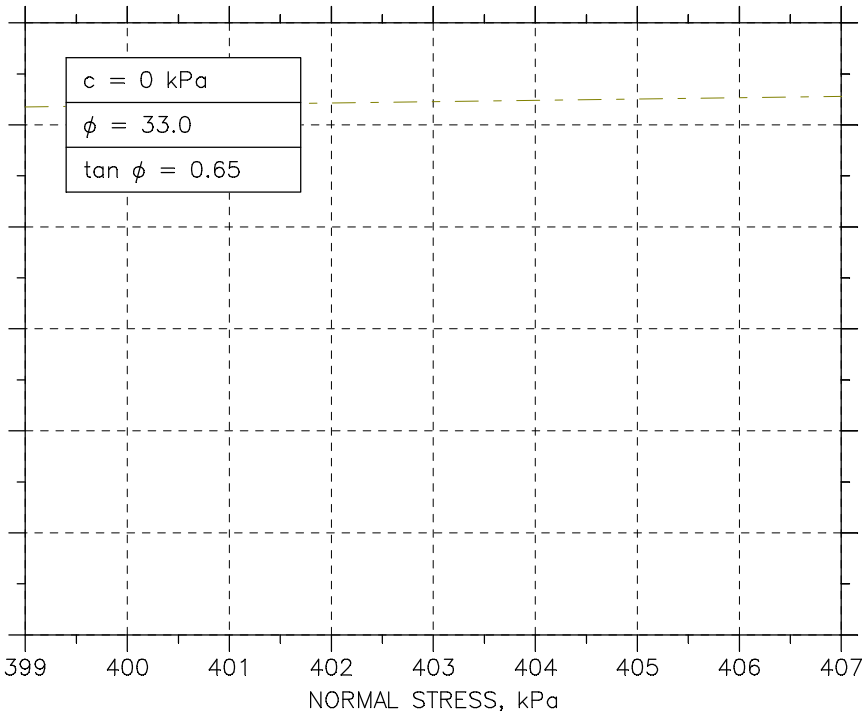


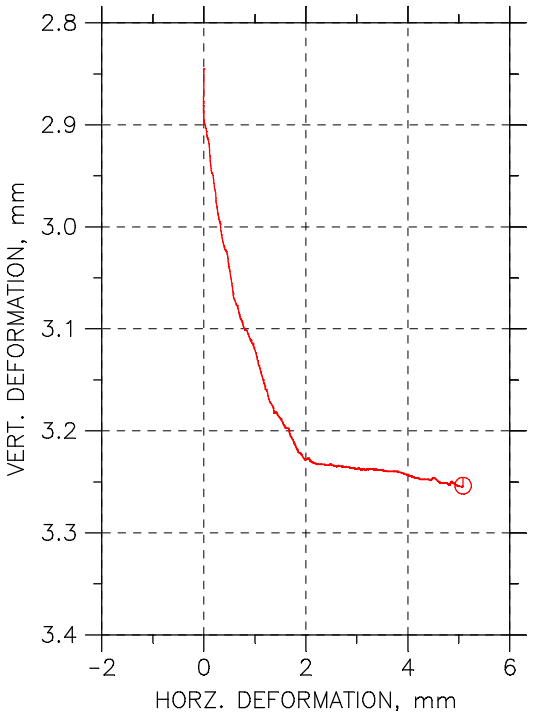




DIRECT SHEAR TEST REPORT







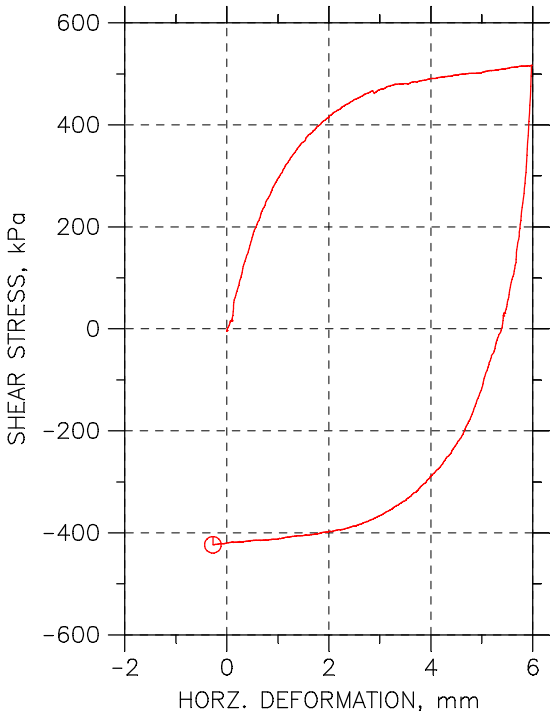
Symbol		⏲			
Test No.		1			
Sample No.		4 and 5			
Shape		Circular			
Initial	Dimension, mm	63.5			
	Area, mm^2	3166.9			
	Height, mm	31.63			
	Water Content, %	0.00			
	Dry Density, N/m^3	0			
	Saturation, %	0.00			
	Void Ratio	0			
Consol. Height, mm		28.81			
Consol. Void Ratio		0			
Final	Water Content, %	0.00			
	Dry Density, N/m^3	0			
	Saturation, %	0.00			
	Void Ratio	0			
Normal Stress, kPa		399.95			
Max. Shear Stress, kPa		259.33			
Ult. Shear Stress, kPa		256.52			
Time to Failure, min		1087			

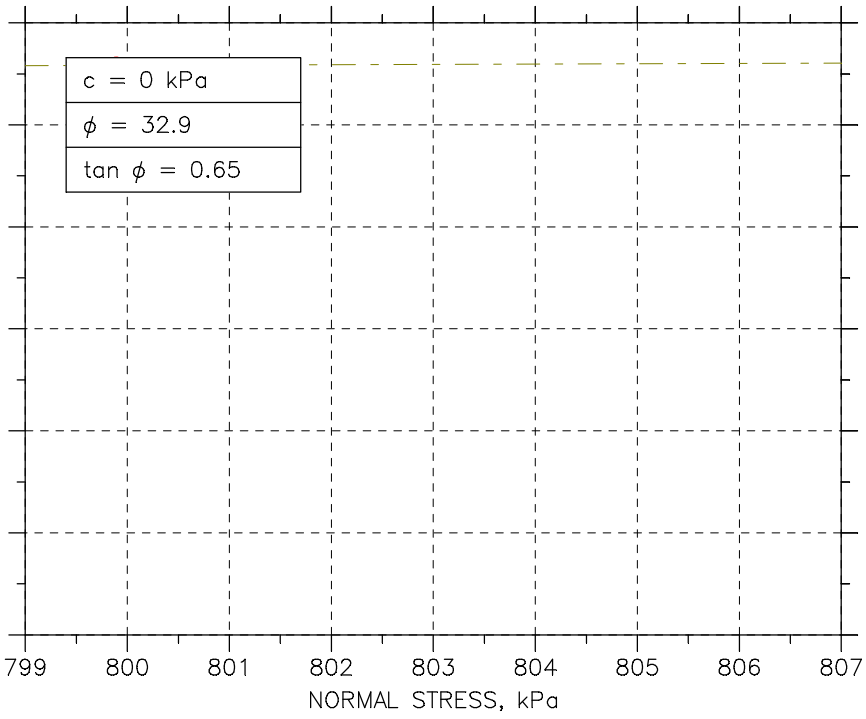
Project: Morrison Gold	Disp. Rate, mm/min	0.00364			
Location: BC	Estimated Specific Gravity	0.00			
Project No.: M09382A01	Liquid Limit	---			
Boring No.: BH07-7	Plastic Limit	---			
Sample Type:	Plasticity Index	---			

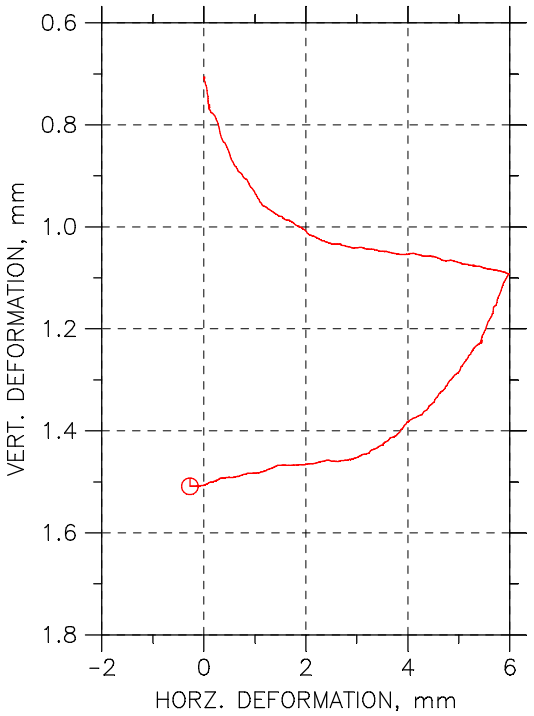
Description: Remoulded samples from SPT 4 and 5, 50%-50%. Removed material > 6mm

Remarks: 1st step: consolidation and peak shear at 400 kPa.

DIRECT SHEAR TEST REPORT







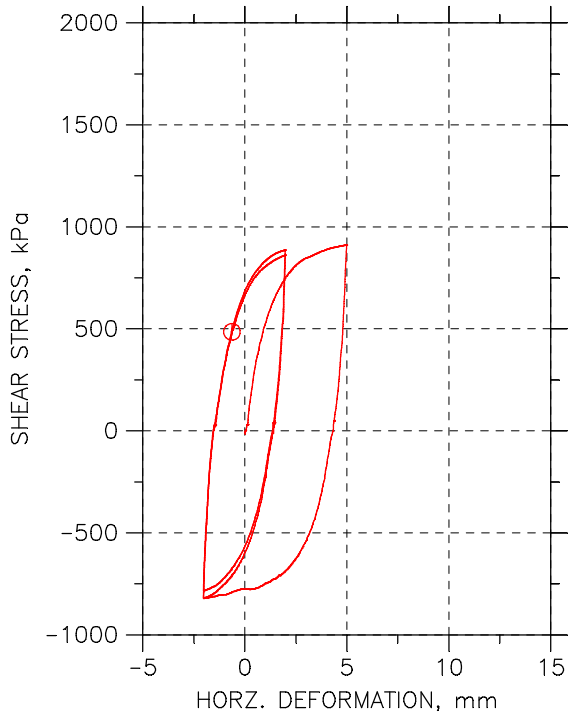
Symbol		⏲			
Test No.		1/b			
Sample No.		4 and 5			
Shape		Circular			
Initial	Dimension, mm	63.5			
	Area, mm^2	3166.9			
	Height, mm	28.38			
	Water Content, %	0.00			
	Dry Density, N/m^3	0			
	Saturation, %	0.00			
	Void Ratio	0			
Consol. Height, mm		27.695			
Consol. Void Ratio		0			
Final	Water Content, %	0.00			
	Dry Density, N/m^3	0			
	Saturation, %	0.00			
	Void Ratio	0			
Normal Stress, kPa		799.89			
Max. Shear Stress, kPa		516.6			
Ult. Shear Stress, kPa		-423.37			
Time to Failure, min		587.53			

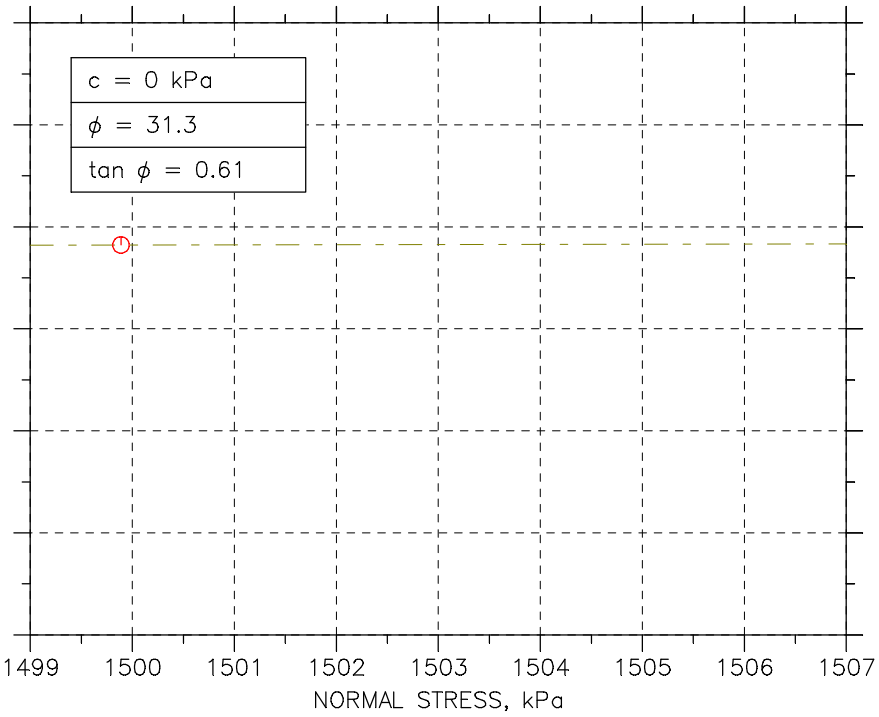
Project: Morrison Gold	Disp. Rate, mm/min	0.0108			
Location: BC	Estimated Specific Gravity	0.00			
Project No.: M09382A01	Liquid Limit	---			
Boring No.: BH07-7	Plastic Limit	---			
Sample Type:	Plasticity Index	---			

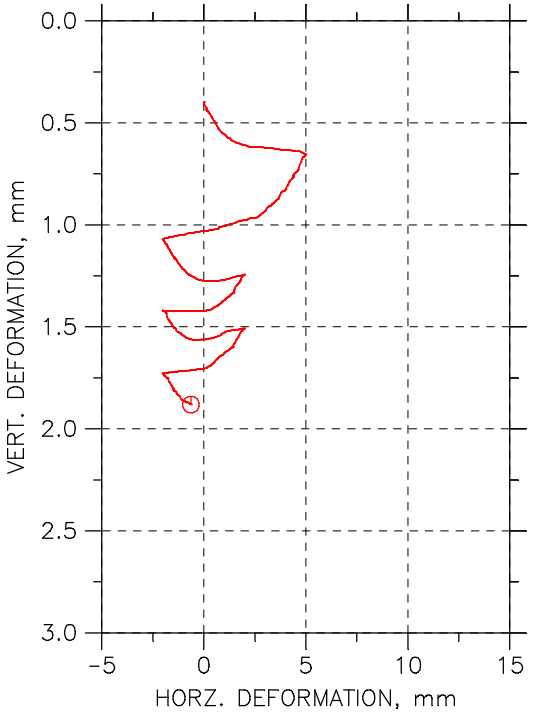
Description: Remoulded samples from SPT 4 and 5, 50%-50%. Removed material > 6mm

Remarks: 2nd step: consolidation and peak shear at 800 kPa.

DIRECT SHEAR TEST REPORT







Symbol		⏲			
Test No.		1/b			
Sample No.		4 and 5			
Shape		Circular			
Initial	Dimension, mm	63.5			
	Area, mm^2	3166.9			
	Height, mm	27.28			
	Water Content, %	0.00			
	Dry Density, N/m^3	0			
	Saturation, %	0.00			
	Void Ratio	0			
Consol. Height, mm		26.883			
Consol. Void Ratio		0			
Final	Water Content, %	0.00			
	Dry Density, N/m^3	0			
	Saturation, %	0.00			
	Void Ratio	0			
Normal Stress, kPa		1499.9			
Max. Shear Stress, kPa		911.19			
Ult. Shear Stress, kPa		485.02			
Time to Failure, min		691.82			

Project: Morrison Gold	Disp. Rate, mm/min	0.007874			
Location: BC	Estimated Specific Gravity	0.00			
Project No.: M09382A01	Liquid Limit	---			
Boring No.: BH07-7	Plastic Limit	---			
Sample Type:	Plasticity Index	---			

Description: Remoulded samples from SPT 4 and 5, 50%-50%. Removed material > 6mm

Remarks: 3rd step: consolidation and peak shear at 1500 kPa.

SPECIFIC GRAVITY OF SOIL SOLIDS (ASTM-D854)

Sample No.		TAILINGS FINE FRACTION					
Flask No.		KL3	KL2	A			
Volume of Flask @ 20° C	ml	500	500	500			
Method of Air removal		Boiling	Boiling	Boiling			
De-airing Period	hr	2	2	2			
Test temperature	° C	22	22	22			
Mass of Flask+Water (M_a)	g	675.53	675.16	678.02			
Mass of Flask+Water+Soil (M_b)	g	720.28	718.25	721.84			
Mass of Dish/Flask+Soil		247.08	244.19	248.06			
Mass of Dish/Flask		177.48	177.19	180.12			
Mass of Dry Soil (M_o)	g	69.60	67.00	67.94			
Correction factor (K) @ Test Temperature		0.9996	0.9996	0.9996			
Specific Gravity of Solids @ 20° C		2.800	2.801	2.816			
Average Specific Gravity of Solids @ 20° C		2.81					

Sample No.							
Flask No.							
Volume of Flask @ 20° C	ml						
Method of Air removal							
De-airing Period	hr						
Test temperature	° C						
Mass of Flask+Water (M_a)	g						
Mass of Flask+Water+Soil (M_b)	g						
Mass of Dish/Flask+Soil							
Mass of Dish/Flask							
Mass of Dry Soil (M_o)	g						
Correction factor (K) @ Test Temperature							
Specific Gravity of Solids @ 20° C							
Average Specific Gravity of Solids @ 20° C							

Specific Gravity of Solids @ 20° C = $(K \times M_o)/(M_o + M_a - M_b)$

Klohn Crippen Berger	JOB NO.:	M09382A01
	PROJECT:	Morrison Copper/Gold Project
	LOCATION:	BC
	DATE:	6-Mar-08
	TESTED BY: BY	CHECKED BY JG

SPECIFIC GRAVITY OF SOIL SOLIDS (ASTM-D854)

Sample No.		TAILINGS COARSE FRACTION					
Flask No.		2	4	5			
Volume of Flask @ 20° C	ml	500	500	500			
Method of Air removal		Boiling	Boiling	Boiling			
De-airing Period	hr	2	2	2			
Test temperature	° C	22	22	22			
Mass of Flask+Water (M_a)	g	671.80	669.23	677.26			
Mass of Flask+Water+Soil (M_b)	g	728.26	727.94	733.96			
Mass of Dish/Flask+Soil		262.72	263.43	268.52			
Mass of Dish/Flask		173.81	170.80	178.98			
Mass of Dry Soil (M_o)	g	88.91	92.63	89.54			
Correction factor (K) @ Test Temperature		0.9996	0.9996	0.9996			
Specific Gravity of Solids @ 20° C		2.739	2.730	2.725			
Average Specific Gravity of Solids @ 20° C		2.73					

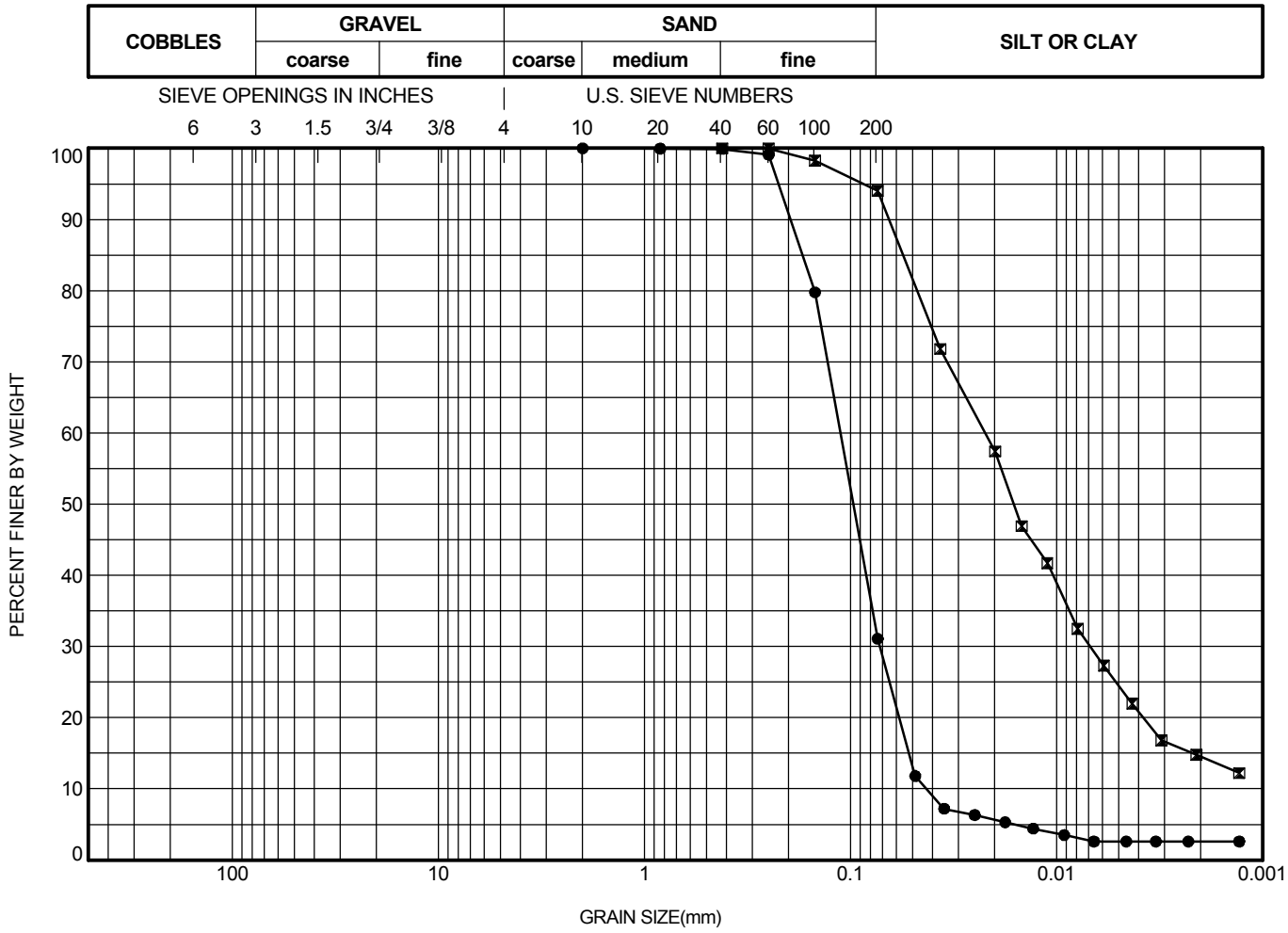
Sample No.							
Flask No.							
Volume of Flask @ 20° C	ml						
Method of Air removal							
De-airing Period	hr						
Test temperature	° C						
Mass of Flask+Water (M_a)	g						
Mass of Flask+Water+Soil (M_b)	g						
Mass of Dish/Flask+Soil							
Mass of Dish/Flask							
Mass of Dry Soil (M_o)	g						
Correction factor (K) @ Test Temperature							
Specific Gravity of Solids @ 20° C							
Average Specific Gravity of Solids @ 20° C							

Specific Gravity of Solids @ 20° C = $(K \times M_o)/(M_o + M_a - M_b)$

Klohn Crippen Berger

JOB NO.:	M09382A01	
PROJECT:	Morrison Copper/Gold Project	
LOCATION:	BC	
DATE:	6-Mar-08	
TESTED BY:	BY	CHECKED BY JG

GRAIN SIZE DISTRIBUTION



	HOLE	DEPTH (m)	D85	D60	D50	D15	D10	CU	%GRAVEL	%SAND	%FINES
●	Tailings Coarse	0.00	0.171	0.112	0.097				0.0	68.0	32.0
☒	Tailings Fine	0.00							0.0	5.9	94.1

	HOLE	SAMPLE	DEPTH (m)	W%	W_L	W_P	PI	REMARKS / SAMPLE DESCRIPTION
●	Tailings Coarse		0.00					
☒	Tailings Fine		0.00					

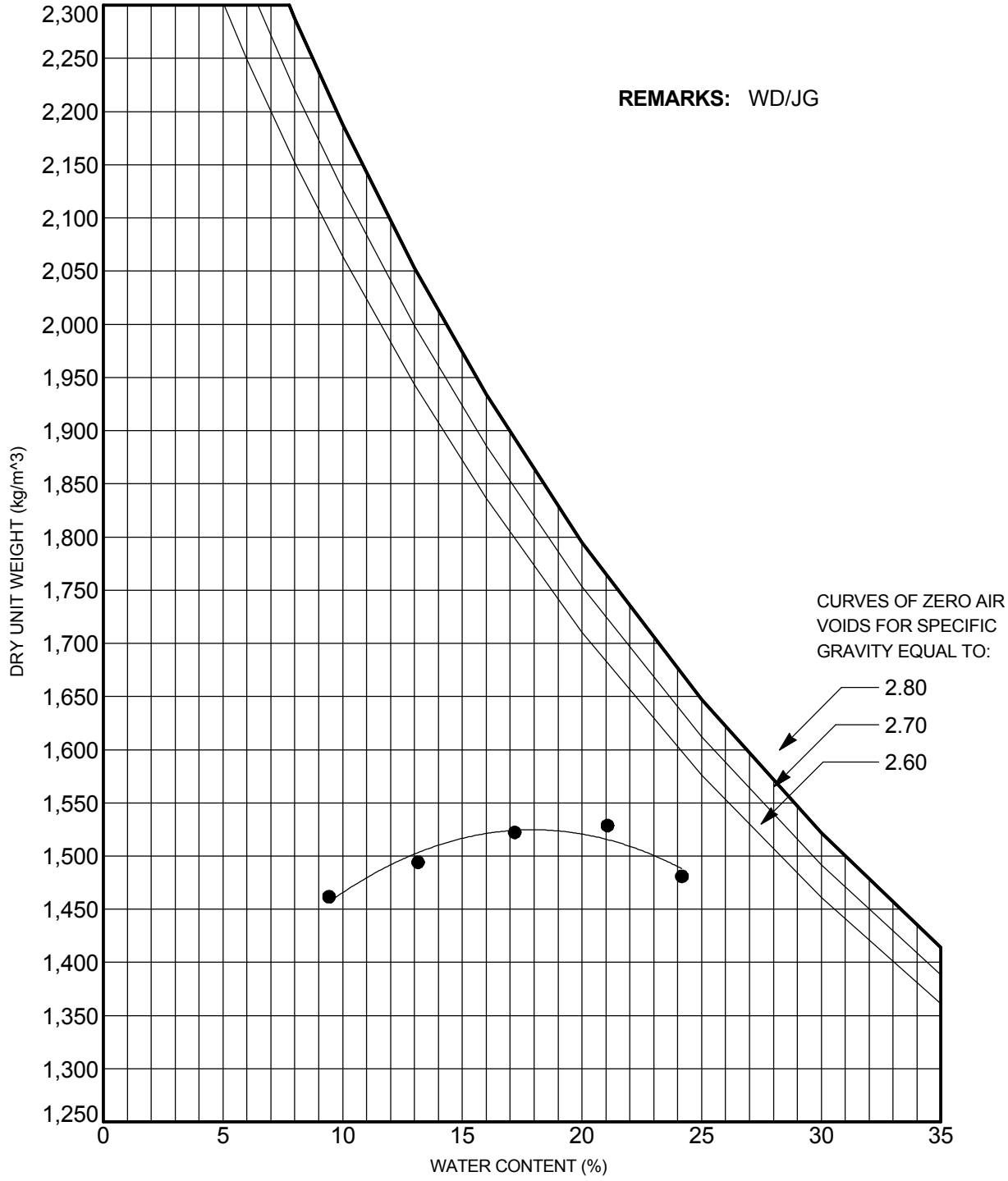
CU = COEFFICIENT OF UNIFORMITY = D60/D10 **PARTICLE SIZES, e.g. D85, in mm** **Tested by Wet Sieving Method (ASTM D1140 & D422)**

Klohn Crippen Berger

PROJECT NO.: M09382A01
PROJECT: Morrison Copper Gold
LOCATION: BC
FIGURE:
DRAWN BY: BY **CHECKED BY:**

KCB_GRAIN_SIZE-SI M09382A01 MORRISON TAILINGS.GPJ SIEVE.GDT 3/7/08

MOISTURE - DENSITY RELATIONSHIP



REMARKS: WD/JG

	TEST	DEPTH(m)	METHOD	OWC	MDW	MATERIAL DESCRIPTION
●	Tailings Coarse	0.0	698A	18.0	1530.0	From 90% coarse and 10% fines: 18% fines

OWC = Optimum Water Content (%) MDW = Maximum dry Unit Weight (pcf)

Klohn Crippen Berger

PROJECT NO.:	M09382A01
PROJECT:	Morrison Copper Gold
LOCATION:	BC
FIGURE:	
DRAWN BY:	BY **CHECKED BY:**

KCB_COMPACTION_TEST-SI M09382A01 MORRISON TAILINGS.GPJ 4/17/08

Klohn Crippen Berger

SETTLING TEST using 2L graduated standard beaker

Project No.: M09182A01 Project: Morrison Copper/Gold Project
Sample Information: Tailings with Process Water (from 90% - 10% coarse - fine Tailings, at 100% fines)
Targeted solid content: 33.0%
Weight of solid: 592.00g dry tailings + 1202.00 g water tailings made up to 1412.5ml

Tested by: JAG Date: 14-Apr-08

				Readings					super	solids					
Date	Time	Elapsed Time (min)	Temp. (°C)	Top Supernatant (mm)	Top Solids (mm)	Top Settlement (mm)	Height Supernatant (mm)	Volume Supernatant (cm3)	Volume upernatant Variatio (cm3)	Volume Solids (settlement) (cm3)	Wet Density (g/cm3)	Dry Density (g/cm3)	Water Content (%)	Solid Content (%)
10-Apr-08	3.02 PM	0	22.5	117	117.00	2.00	0.00	0.00	1392.00	0.00	1.289	0.425	203.04	33.00
		0.17		117	116.50	2.00	0.50	6.05	1385.95	0.00	1.290	0.427	202.02	33.11
		0.5		117	114.00	2.00	3.00	36.32	1355.68	0.00	1.297	0.437	196.91	33.68
		1		117	112.00	2.00	5.00	60.53	1331.47	0.00	1.302	0.445	192.82	34.15
		1.5		117	110.00	2.00	7.00	84.75	1307.25	0.00	1.308	0.453	188.73	34.63
		2		117	107.00	2.00	10.00	121.07	1270.93	0.00	1.316	0.466	182.59	35.39
		2.5		117	105.00	35.00	12.00	145.28	1246.72	399.52	1.322	0.475	178.50	35.91
		3		117	104.00	104.00	13.00	157.38	1234.62	1234.87	1.326	0.480	176.46	36.17
		3.5		117	100.00	100.00	17.00	205.81	1186.19	1186.44	1.339	0.499	168.28	37.28
		4		117	99.00	99.00	18.00	217.92	1174.08	1174.33	1.342	0.504	166.23	37.56
		5		117	95.00	95.00	22.00	266.34	1125.66	1125.91	1.357	0.526	158.05	38.75
		6		117	94.80	94.80	22.20	268.77	1123.23	1123.49	1.358	0.527	157.64	38.81
		7		117	91.50	91.50	25.50	308.72	1083.28	1083.54	1.371	0.546	150.89	39.86
		8.5		117	86.00	86.00	31.00	375.30	1016.70	1016.95	1.395	0.582	139.64	41.73
		9		117	83.50	83.50	33.50	405.57	986.43	986.68	1.408	0.600	134.53	42.64
		9.5		117	82.00	82.00	35.00	423.73	968.27	968.52	1.415	0.611	131.46	43.20
		10		117	80.00	80.00	37.00	447.94	944.06	944.31	1.426	0.627	127.37	43.98
		10.5		117	78.50	78.50	38.50	466.10	925.90	926.15	1.434	0.639	124.31	44.58
		11		117	77.00	77.00	40.00	484.26	907.74	907.99	1.443	0.652	121.24	45.20
		11.5		117	75.50	75.50	41.50	502.42	889.58	889.83	1.452	0.665	118.17	45.84
		12		117	74.00	74.00	43.00	520.58	871.42	871.67	1.461	0.679	115.10	46.49
		12.5		117	72.00	72.00	45.00	544.79	847.21	847.46	1.475	0.699	111.01	47.39
		13		117	71.00	71.00	46.00	556.90	835.10	835.35	1.481	0.709	108.97	47.85
		13.5		117	70.00	70.00	47.00	569.01	822.99	823.24	1.488	0.719	106.92	48.33
		14		117	68.50	68.50	48.50	587.17	804.83	805.08	1.499	0.736	103.86	49.05
		14.5		117	67.50	67.50	49.50	599.27	792.73	792.98	1.507	0.747	101.81	49.55
		15		117	66.50	66.50	50.50	611.38	780.62	780.87	1.515	0.758	99.77	50.06
		15.5		117	65.00	65.00	52.00	629.54	762.46	762.71	1.527	0.776	96.70	50.84
		16		117	64.00	64.00	53.00	641.65	750.35	750.61	1.536	0.789	94.65	51.37
		16.5		117	63.00	63.00	54.00	653.75	738.25	738.50	1.545	0.802	92.61	51.92
		18		117	60.00	60.00	57.00	690.07	701.93	702.18	1.573	0.843	86.47	53.63
		22.5		117	56.00	56.00	61.00	738.50	653.50	653.75	1.615	0.906	78.29	56.09
		24		117	55.50	55.50	61.50	744.55	647.45	647.70	1.621	0.914	77.27	56.41
		25		117	55.50	55.50	61.50	744.55	647.45	647.70	1.621	0.914	77.27	56.41
		35		117	53.00	53.00	64.00	774.82	617.18	617.43	1.651	0.959	72.16	58.09
		44		117	51.00	51.00	66.00	799.03	592.97	593.22	1.678	0.998	68.07	59.50
		55		117	50.50	50.50	66.50	805.08	586.92	587.17	1.685	1.009	67.05	59.86
		100		117	49.50	49.50	67.50	817.19	574.81	575.06	1.699	1.030	65.00	60.61
		180		117	49.50	49.50	67.50	817.19	574.81	575.06	1.699	1.030	65.00	60.61
		1058		117	49.00	49.00	68.00	823.24	568.76	569.01	1.707	1.041	63.98	60.98
		2880		117	49.00	49.00	68.00	823.24	568.76	569.01	1.707	1.041	63.98	60.98
		4320		117	49.00	49.00	68.00	823.24	568.76	569.01	1.707	1.041	63.98	60.98
		5760		117	49.00	49.00	68.00	823.24	568.76	569.01	1.707	1.041	63.98	60.98

Initial Dry density (g/cc)	0.425
Final Dry Density (g/cc)	1.041

Initial Solid Volume (cc)	**1392**
Final Solid Volume (cc)	568.76

Initial Bulk Density (g/cc)	1.289
Final Bulk Density (g/cc)	1.707

Dry Weight (g)	**592**
Initial Wet Weight (g)	**1794**
Water (g)	1202
Initial Solid Content (%)	**33**
Final Solid Content (%)	**61.0**

Final Wet Weight (g)	970.76
Supernatant (g)	823.24
Density Supernatant (g/cc)	**1***

Initial Water Content (%)	**53.85**
Final Water Content (%)	**66.3**

* Assumed

Klohn Crippen Berger

SETTLING TEST using 2L graduated standard beaker

Project No.: M09182A01 Project: Morrison Copper/Gold Project
Sample Information: Tailings with Process Water
Targeted solid content: 33.0%
Weight of solid: 591.88g dry tailings + 1201.45 g water tailings made up to 1412.5ml

Tested by: JAG Date: 7-Apr-08

				Readings										
Date	Time	Elapsed Time (min)	Temp. (°C)	Top Supernatant (mm)	Top Solids (mm)	Top Settlement (mm)	Height Supernatant (mm)	Volume Supernatant (cm3)	Volume ernatant Varia (cm3)	Volume Solids (settlement) (cm3)	Wet Density (g/cm3)	Dry Density (g/cm3)	Water Content (%)	Solid Content (%)
3-Apr-08	3.28 PM	0	22.5	333	333.00	215.00	0.00	0.00	1412.50	0.00	1.270	0.419	202.98	33.01
		0.5		333	331.00	240.00	2.00	24.21	1388.29	302.66	1.274	0.426	198.89	33.46
		1		333	329.00	245.00	4.00	48.43	1364.07	363.20	1.279	0.434	194.80	33.92
		1.5		333	325.00	250.00	8.00	96.85	1315.65	423.73	1.289	0.450	186.62	34.89
		2		333	320.00	250.00	13.00	157.38	1255.12	423.73	1.303	0.472	176.39	36.18
		2.5		333	315.00	250.00	18.00	217.92	1194.58	423.73	1.319	0.495	166.17	37.57
		3		333	310.00	250.00	23.00	278.45	1134.05	423.73	1.336	0.522	155.94	39.07
		3.5		333	303.00	250.00	30.00	363.20	1049.30	423.73	1.363	0.564	141.62	41.39
		4		333	298.00	250.00	35.00	423.73	988.77	423.73	1.385	0.599	131.39	43.22
		4.5		333	292.00	250.00	41.00	496.37	916.13	423.73	1.416	0.646	119.12	45.64
		5		333	287.00	250.00	46.00	556.90	855.60	423.73	1.445	0.692	108.89	47.87
		5.5		333	281.00	250.00	52.00	629.54	782.96	423.73	1.486	0.756	96.62	50.86
		6		333	277.00	250.00	56.00	677.97	734.53	423.73	1.518	0.806	88.44	53.07
		6.5		333	271.50	250.00	61.50	744.55	667.95	423.73	1.570	0.886	77.19	56.44
		7		333	270.00	250.00	63.00	762.71	649.79	423.73	1.586	0.911	74.12	57.43
		7.5		333	268.00	250.00	65.00	786.92	625.58	423.73	1.609	0.946	70.03	58.81
		8		333	267.00	250.00	66.00	799.03	613.47	423.73	1.621	0.965	67.98	59.53
		8.5		333	266.00	250.00	67.00	811.14	601.36	423.73	1.633	0.984	65.94	60.26
		9		333	265.00	250.00	68.00	823.24	589.26	423.73	1.646	1.004	63.89	61.02
		9.5		333	264.50	250.00	68.50	829.30	583.20	423.73	1.653	1.015	62.87	61.40
		10		333	264.00	250.00	69.00	835.35	577.15	423.73	1.660	1.026	61.85	61.79
		12		333	263.00	250.00	70.00	847.46	565.04	423.73	1.674	1.047	59.80	62.58
		15		333	262.50	250.00	70.50	853.51	558.99	423.73	1.681	1.059	58.78	62.98
		20		333	261.50	250.00	71.50	865.62	546.88	423.73	1.696	1.082	56.73	63.80
		25		333	261.00	250.00	72.00	871.67	540.83	423.73	1.704	1.094	55.71	64.22
		34		333	260.00	250.00	73.00	883.78	528.72	423.73	1.720	1.119	53.67	65.08
		42		333	260.00	250.00	73.00	883.78	528.72	423.73	1.720	1.119	53.67	65.08
		53		333	259.50	250.00	73.50	889.83	522.67	423.73	1.729	1.132	52.64	65.51
		66		333	259.50	250.00	73.50	889.83	522.67	423.73	1.729	1.132	52.64	65.51
		73		333	259.50	250.00	73.50	889.83	522.67	423.73	1.729	1.132	52.64	65.51
		95		333	259.50	250.00	73.50	889.83	522.67	423.73	1.729	1.132	52.64	65.51
		123		333	259.50	250.00	73.50	889.83	522.67	423.73	1.729	1.132	52.64	65.51
		180		333	259.50	250.00	73.50	889.83	522.67	423.73	1.729	1.132	52.64	65.51
		999		333	259.50	250.00	73.50	889.83	522.67	423.73	1.729	1.132	52.64	65.51
		1346		333	259.50	250.00	73.50	889.83	522.67	423.73	1.729	1.132	52.64	65.51
		4320		333	259.50	250.00	73.50	889.83	522.67	423.73	1.729	1.132	52.64	65.51
		5483		333	258.50	250.00	74.50	901.94	510.56	423.73	1.746	1.159	50.60	66.40

Initial Dry density (g/cc)	0.419
Final Dry Density (g/cc)	1.159

Initial Solid Volume (cc)	**1412.5**
Final Solid Volume (cc)	510.56

Initial Bulk Density (g/cc)	1.270
Final Bulk Density (g/cc)	1.876

Dry Weight (g)	**591.88**
Initial Wet Weight (g)	**1793.3**
Water (g)	1201.42
Initial Solid Content (%)	**33**
Final Solid Content (%)	**66.4**

Final Wet Weight (g)	957.95
Supernatant (g)	835.35
Density Supernatant (g/cc)	**1** *

Initial Water Content (%)	**202.98**
Final Water Content (%)	**50.6**

* Assumed

Klohn Crippen Berger

SETTLING TEST using 2L graduated standard beaker

Project No.: M09182A01 Project: Morrison Copper/Gold Project
Sample Information: Tailings with Process Water (from 90% - 10% coarse - fine Tailings, at 18% fines)
Targeted solid content: 33.0%
Weight of solid: 592.00g dry tailings + 1202.00 g water tailings made up to 1409ml

Tested by: JAG Date: 14-Apr-08

				Readings											
Date	Time	Elapsed Time (min)	Temp. (°C)	Top Supernatant (mm)	Top Solids (mm)	Top Settlement (mm)	Height Supernatant (mm)	Volume Supernatant (cm3)	Volume Supernatant Variati (cm3)	Volume Solids (settlement (cm3)	Wet Density (g/cm3)	Dry Density (g/cm3)	Water Content (%)	Solid Content (%)
10-Apr-08	2.48 PM	0	22.5	332	332.00	225.00	0.00	0.00	1409.00	0.00	1.273	0.420	203.04	33.00
		0.17		332	332.00	225.00	0.00	0.00	1409.00	115.01	1.273	0.420	203.04	33.00
		0.5		332	330.00	235.00	2.00	24.21	1384.79	236.08	1.278	0.428	198.95	33.45
		1		332	325.00	265.00	7.00	84.75	1324.25	599.27	1.291	0.447	188.73	34.63
		1.5		332	323.00	263.00	9.00	108.96	1300.04	575.06	1.296	0.455	184.64	35.13
		2		332	320.00	265.00	12.00	145.28	1263.72	599.27	1.305	0.468	178.50	35.91
		2.5		332	318.00	268.00	14.00	169.49	1239.51	635.59	1.311	0.478	174.41	36.44
		3		332	315.00	268.00	17.00	205.81	1203.19	635.59	1.320	0.492	168.28	37.28
		3.5		332	300.00	268.00	32.00	387.41	1021.59	635.59	1.377	0.579	137.60	42.09
		4		332	295.00	268.00	37.00	447.94	961.06	635.59	1.401	0.616	127.37	43.98
		4.5		332	288.00	268.00	44.00	532.69	876.31	635.59	1.439	0.676	113.06	46.94
		5		332	275.00	260.00	57.00	690.07	718.93	538.74	1.536	0.823	86.47	53.63
		5.5		332	265.00	260.00	67.00	811.14	597.86	538.74	1.644	0.990	66.02	60.23
		6		332	260.00	260.00	72.00	871.67	537.33	538.74	1.717	1.102	55.80	64.19
		7		332	259.00	259.00	73.00	883.78	525.22	526.63	1.733	1.127	53.75	65.04
		8		332	258.50	258.50	73.50	889.83	519.17	520.58	1.742	1.140	52.73	65.47
		9		332	258.00	258.00	74.00	895.88	513.12	514.53	1.750	1.154	51.71	65.92
		10		332	258.00	258.00	74.00	895.88	513.12	514.53	1.750	1.154	51.71	65.92
		15		332	257.00	257.00	75.00	907.99	501.01	502.42	1.768	1.182	49.66	66.82
		20		332	256.80	256.80	75.20	910.41	498.59	500.00	1.772	1.187	49.25	67.00
		30		332	256.50	256.50	75.50	914.04	494.96	496.37	1.778	1.196	48.64	67.28
		45		332	256.50	256.50	75.50	914.04	494.96	496.37	1.778	1.196	48.64	67.28
		65		332	256.50	256.50	75.50	914.04	494.96	496.37	1.778	1.196	48.64	67.28
		130		332	256.50	256.50	75.50	914.04	494.96	496.37	1.778	1.196	48.64	67.28
		200		332	256.50	256.50	75.50	914.04	494.96	496.37	1.778	1.196	48.64	67.28
		1440		332	256.50	256.50	75.50	914.04	494.96	496.37	1.778	1.196	48.64	67.28
		2880		332	256.50	256.50	75.50	914.04	494.96	496.37	1.778	1.196	48.64	67.28
		4320		332	256.50	256.50	75.50	914.04	494.96	496.37	1.778	1.196	48.64	67.28
		5760		332	256.50	256.50	75.50	914.04	494.96	496.37	1.778	1.196	48.64	67.28

Initial Dry density (g/cc)	0.419
Final Dry Density (g/cc)	1.188

Initial Solid Volume (cc)	**1412.5**
Final Solid Volume (cc)	498.46

Initial Bulk Density (g/cc)	1.270
Final Bulk Density (g/cc)	1.765

Dry Weight (g)	**592**
Initial Wet Weight (g)	**1794**
Water (g)	1202
Initial Solid Content (%)	**33**
Final Solid Content (%)	**67.3**

Initial Water Content (%)	**53.85**
Final Water Content (%)	**42**

Final Wet Weight (g)	879.96
Supernatant (g)	914.04
Density Supernatant (g/cc)	**1** *

* Assumed

MORRISON
M09382A01
Mix 90% Coarse 10% fines
33% Solids content
April 7, 08


MORRISON
M09382A-1
Mix 90% Coarse- 10%
33% Solids Conte
April 7, 08
1200
1000
1400
400
1600
200
7 11:31

CONSOLIDATION

PROJECT NO: M09382A01
PROJECT: Morrison Copper
SAMPLE NO.: Tailings - 90% Coarse Tailings - 10% Fine Tailings (32% Fines)
DEPTH:
LOADING MACHINE NO.: CS1

Initial water content : 50.2 % (based on final settling test)
Final water content : 26.6% (based on sample at end of test)

Initial Specimen Height (mm): 22.000
Height of Solid (mm): 9.340 (Initial dry mass = 80.86 g, Specimen area = 3158.9 mm^2, SG=2.74)
Initial void ratio: 1.357 * Calibration to be done after test
Void Ratio Factor 0.1071 ** Estimated t_{90}

Pressure (kPa)		Change in	Correction	Final	Change in	Void	t_{90}**	Cv	Mv	k	Cc
From	To	Height (mm)	* (mm)	Height (mm)	Void Ratio	Ratio	(min)	(m^2/year)	(cm^2/N)	(cm/sec)	
0.0	**1.0**	5.41	0.0000	16.590	0.5792	**0.778**					
1.0	**3.0**	0.06	0.0000	16.530	0.5857	**0.771**	0.1	3.1E+02	3.6E-02	1.1E-01	**0.013**
3.0	**6.0**	0.04	0.0000	16.490	0.5899	**0.767**	0.1	2.5E+02	1.2E-02	3.0E-02	**0.014**
6.0	**12.0**	0.04	0.0000	16.450	0.5942	**0.763**	0.2	2.0E+02	8.1E-03	1.6E-02	**0.014**
12.0	**26**	0.070	0.0000	16.380	0.6017	**0.755**	0.2	2.0E+02	7.1E-03	1.4E-02	**0.022**
26	**54**	0.080	0.0000	16.300	0.6103	**0.747**	0.2	2.0E+02	3.5E-03	6.8E-03	**0.027**
54	**102**	0.07	0.0000	16.230	0.6178	**0.739**	0.2	1.7E+02	1.5E-03	2.5E-03	**0.027**
102	**198**	0.2	0.0000	16.030	0.6392	**0.718**	0.3	1.1E+02	2.6E-03	2.8E-03	**0.074**
198	**389**	0.392	0.0000	15.638	0.6812	**0.676**	0.3	9.3E+01	2.5E-03	2.3E-03	**0.143**
389	**102**	-0.061	0.0000	15.699	0.6746	**0.682**					
102	**26**	-0.08	0.0000	15.779	0.6661	**0.691**					
26	**54**	0.02	0.0000	15.759	0.6682	**0.689**					
54	**102**	0.04	0.0000	15.719	0.6725	**0.685**	0.3	9.2E+01	9.1E-04	8.2E-04	**0.016**
102	**198**	0.050	0.0000	15.669	0.6778	**0.679**	0.3	9.1E+01	6.6E-04	5.9E-04	**0.019**
198	**389**	0.088	0.0000	15.581	0.6873	**0.670**	0.3	9.1E+01	5.8E-04	5.2E-04	**0.032**
389	**773**	0.237	0.0000	15.344	0.7126	**0.644**	0.7	3.6E+01	8.0E-04	2.8E-04	**0.085**
773	**1539**	0.382	0.0000	14.962	0.7535	**0.603**	1.4	1.8E+01	6.5E-04	1.1E-04	**0.137**
1539	**389**	-0.136	0.0000	15.098	0.7390	**0.618**					
389	**102**	-0.112	0.0000	15.210	0.7270	**0.630**					
102	**26.0**	-0.102	0.0000	15.312	0.7161	**0.641**					
26.0	**6.0**	-0.083	0.0000	15.395	0.7072	**0.650**					
6.0	**1.0**	-0.065	0.0000	15.460	0.7002	**0.657**					

Klohn Crippen Berger

PROJECT NO: M09382A01
PROJECT NAME: Morrison Copper
LOCATION: BC
FIGURE: DATE TESTED: April 2008
TESTED BY:JG CHECKED BY:

e - log(p)
Tailings: 90% Coarse Tailings - 10% Fine Tailings
(32% Fines)