Response to Request for Supplementary Information (YESAB Assessment 2010-0264) Pursuant to the Yukon Environmental and Socio-economic Assessment Act

APPENDIX R15D

Site Facilities Geotechnical Factual Data Report







VICTORIA GOLD CORPORATION

EAGLE GOLD PROJECT DUBLIN GULCH, YUKON

SITE FACILITIES GEOTECHNICAL INVESTIGATION FACTUAL DATA REPORT

FINAL

PROJECT NO: 0792-002

DATE: March 5, 2010

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March 5, 2010 Project No. 0792-002

Mike Padula Victoria Gold Corporation 2550-1066 West Hastings Vancouver, BC Canada V6E 3X2

Dear Mr. Padula,

RE: EAGLE GOLD PROJECT SITE FACILITIES GEOTECHNICAL INVESTIGATION FACTUAL DATA REPORT

Please find attached a final version of the aforementioned report for your records. Should you have any questions or comments do not hesitate to contact the undersigned.

Yours sincerely,

BGC ENGINEERING INC. per:

Pete Quinn, Ph.D., P.Eng. Senior Geotechnical Engineer

EXECUTIVE SUMMARY

This report summarizes the findings of the geotechnical site investigation program conducted in July and August of 2009, at the Eagle Gold Project, located near Mayo, Yukon Territory. Several areas on site were explored as part of a pre-feasibility study for potential heap leach and waste rock containment facilities.

A total of 69 test pits and 7 auger/drill holes were completed in order to characterize the overburden material and shallow bedrock conditions. Laboratory testing was completed of most samples for moisture content, and representative samples were also tested for Atterberg limits and grain size analysis. Three permanent thermistor strings were installed to obtain ground temperature profiles in areas of suspected permafrost.

The data have been organized into terrain units that divide the overall project site into smaller segments for ease of visualization, and generally correspond to drainage basins or subbasins within the larger Dublin Gulch catchment.

This report presents factual data only, and does not include any engineering interpretation of the data nor engineering recommendations in relation to the proposed mine facilities.

TABLE OF CONTENTS

EXEC	UTIVE	SUMMARYi
TABL	E OF C	ONTENTSii
LIST (OF TAE	3LES iii
LIST (of fig	URESiv
LIST C	OF APF	PENDICESiv
LIMIT	ATION	S OF REPORTv
1.0	INTRO	DUCTION
1.1.	Gene	ral1
1.2.	Proje	ct Description1
1.3.	Previ	ous Studies1
1.4.	Scop	e of Work 2
2.0	SITE C	CONDITIONS
2.1.	Clima	
2.2.	Physi	ography, Drainage and Vegetation3
2.3.	Bedro	ock Geology3
2.4.	Surfic	cial Geology4
2.5.	Seisn	nicity
3.0	GEOT	ECHNICAL INVESTIGATIONS7
3.1.	Gene	ral7
3.2.	Terra	in Units for Data Presentation7
3.3.	Test I	Pitting
3.4.	Borel	nole Drilling
3.	4.1.	Auger Drilling
3.	4.2.	Rock Coring12
3.	4.3.	Dynamic Cone Penetration Testing
3.	4.4.	Thermistor Installations14
3.	4.5.	Monitoring Wells and Standpipe Piezometers
3.5.	Labo	ratory lesting
3.6.	Bulk	Samples
4.0	RESU	LIS
4.1.	Obse	rved Overburden Soil Conditions
4.	1.1.	Organic Solis
4.	1.Z.	
4. 1	1.3.	Vegthered Beck 26
4. 1	15	Placer Tailings 26
4.2-	Froze	n Ground and Permafrost
4.3	Bedro	27 Dock
N:\BGC\I 1Mar10.c	Projects\(docx	1792 Victoria Gold\002 Site Facilities Geotech\06 Report\main report\ 0792002 Eagle Gold SIR FINAL Page ii

4.4.	Groundwater Conditions	28
4.5.	Slope Instability	32
5.0	OBSERVATIONS IN SPECIFIC TERRAIN UNITS	33
6.0	RECOMMENDATIONS FOR FURTHER STUDY	36
7.0	CLOSURE	37
REFE	RENCES	38

LIST OF TABLES

Table 1.	National Building Code of Canada Recommended Design Motions.	4
Table 2.	Ground Motions for other Probabilities.	5
Table 3.	Test Pit Summary	9
Table 4.	Summary of Boreholes Supervised by BGC1	1
Table 5.	Summary of Boreholes Supervised by Stantec1	2
Table 6.	Summary of Dynamic Cone Penetration Testing1	4
Table 7.	Summary of 2009 Thermistor String Installations1	5
Table 8.	Summary of Laboratory Index Tests1	6
Table 9.	Bulk Samples2	22
Table 10.	Summary of Groundwater Observations	0
Table 11.	Summary of Depth to Groundwater Table	51
Table 12.	Observations in specific terrain units	34

LIST OF FIGURES

- Figure 1. General Site Location
- Figure 2. Site Facilities -- Original Heap Leach Options and Waste Rock Dumps
- Figure 3. Site Facilities Preferred Heap Leach Options and Waste Rock Dump
- Figure 4. Physiography and Drainage
- Figure 5. Slope Angles
- Figure 6. Surficial Geology Map
- Figure 7. Distribution of Recorded Seismic Events
- Figure 8. Terrain Units Selected for Data Organization
- Figure 9. Test Pit Location Plan
- Figure 10. Borehole Location Plan
- Figure 11. Distribution of Organic Soil Thickness in Test Pits
- Figure 12. Distribution of Colluvium Thickness from 2009 Test Holes
- Figure 13. Distribution of Thickness of Weathered Rock from 2009 Test Holes
- Figure 14. Locations of Present and Past Thermistors
- Figure 15. Frozen Ground Observations
- Figure 16. Ground Ice Observations in 2009 Test Holes
- Figure 17. Depth to Bedrock Observed in Test Pits
- Figure 18. Test Pit and Borehole Seepage Observations and Depth
- Figure 19. Groundwater Depths
- Figure 20. Potential Instability Feature

LIST OF APPENDICES

APPENDIX A TEST PIT LOGS

APPENDIX B LABORATORY TEST REPORTS

APPENDIX C BOREHOLE LOGS

APPENDIX D THERMISTOR DATA

APPENDIX E PHOTOGRAPHS

LIMITATIONS OF REPORT

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This report presents factual data only. BGC was not commissioned to provide engineering interpretations of the data contained herein in relation to the proposed development. Any such interpretation by others is solely their responsibility.

N:\BGC\Projects\0792 Victoria Gold\002 Site Facilities Geotech\06 Report\main report\ 0792002 Eagle Gold SIR FINAL 1Mar10.docx Page v

1.0 INTRODUCTION

1.1. General

Victoria Gold Corporation (VGC) is completing a prefeasibility study (PFS) for development of the proposed Eagle Gold mine at Dublin Gulch, Yukon Territory. BGC Engineering Inc. (BGC) was engaged by VGC to design the open pit and to complete geotechnical subsurface exploration work for the other mine facilities. This report presents factual data resulting from a geotechnical investigation of proposed locations for the heap leach and waste rock facilities. Studies related to the design of the open pit will be submitted in a separate report.

1.2. Project Description

The Eagle Gold property is located in the Yukon Territory approximately 40 km north of Mayo, and 15 km northwest of Elsa, as illustrated in Figure 1. The mine will comprise an open pit and heap leach ore processing facility, haul roads, waste rock storage area, crushers, process water ponds, drainage ditches, sediment control structures plus various ancillary facilities.

The arrangement of mine facilities has not been finalized. Three heap leach locations were initially proposed, labeled Options #1, #2 and #3 in Figure 2. Option #1 would be a valley fill at the outlet of the Dublin Gulch drainage basin. Option #2 would be a mid-valley fill further up Dublin Gulch, and Option #3 would be constructed at the height of land approximately 4 km east of the open pit at Bawn Boy Gulch. Each of these options was noted to have specific disadvantages, and during the 2009 site investigation program, additional Options #4 and #5 were proposed. Option #4 would be in the Stuttle Gulch drainage above Dublin Gulch, and Option #5 would be east of the open pit at Olive Gulch.

A sixth option in Ann Gulch was proposed late in the field program. This option and option #5 (Olive Gulch) have reportedly emerged as the preferred heap leach alternatives. Figure 3 shows the approximate layout of these two heap leach pads and their associated ponds, plus the waste rock dump in Eagle Pup, the open pit, and the camp site.

1.3. Previous Studies

Previous geotechnical site investigations were carried out at the Eagle Gold property in 1995 by Knight Piesold and in 1996 by Sitka Corporation. The purpose of those studies was to investigate potential heap leach and waste rock facility locations for feasibility design. The following are the key previous site investigation reports:

- Report on 1995 Geotechnical Investigations for Four Potential Heap Leach Facility Site Alternatives, First Dynasty Mines, Dublin Gulch Property. (Knight Piesold, 1996a)
- Report on Feasibility Design of the Mine Waste Rock Storage Area, First Dynasty Mines, Dublin Gulch Property. (Knight Piesold, 1996b)

- Field Investigation Data Report, Dublin Gulch Project, New Millennium Mining. (Sitka Corporation, 1996.)
- Hydrogeological Characterization and Assessment, Dublin Gulch Project, New Millennium Mining. (GeoEnviro Engineering, 1996)

Knight Piesold completed a feasibility level geotechnical study to evaluate the surficial materials and bedrock conditions at four potential heap leach pad locations, two potential waste rock areas, and the open pit. Groundwater wells and two thermistors were installed in selected drillholes. Test pitting and diamond drilling were completed from June to September 1995 at upper Bawn Bay Gulch, lower Dublin Gulch, the north side of Lynx Creek, and at the confluence of Haggart and Lynx Creeks.

In 1996, Sitka Corporation completed test pits and diamond drillholes in Bawn Bay Gulch, Eagle Pup, Stewart Gulch, and Platinum Gulch for preliminary design of the heap leach and waste rock facilities. Auger holes were drilled in Gill Gulch to evaluate it as a potential borrow source of silt material as a liner for the heap leach facility. Monitoring wells were installed in Bawn Bay Gulch and Eagle Pup. Eight thermistor strings were installed.

1.4. Scope of Work

BGC was engaged to gather factual data regarding subsurface conditions at the proposed heap leach and waste rock facilities. Engineering interpretation of these factual data for design of specific facilities is the responsibility of others. The work involved the excavation of 69 test pits and advancement of seven boreholes. Thermistor strings were installed in three boreholes to gather temperature measurements. Dynamic cone penetration profiles were obtained at two borehole locations to obtain information about material density. Dynamic cone soundings were attempted in two other holes. Groundwater monitoring wells were installed by Stantec in two of the seven boreholes. Stantec supervised the logging and installation of several other monitoring wells around the site.

N:\BGC\Projects\0792 Victoria Gold\002 Site Facilities Geotech\06 Report\main report\ 0792002 Eagle Gold SIR FINAL 1Mar10.docx Page 2

2.0 SITE CONDITIONS

2.1. Climate

Available information for the nearest permanent weather station, at Mayo Airport, YT, suggests daily average temperatures ranging from -25.7°C in January to 16.0°C in July (Environment Canada Canadian Climate Normals 1971-2000), with a mean annual air temperature of -3.1 °C and mean annual precipitation of 313 mm, with 205 mm of rainfall and 147 cm of snowfall. According to Knight Piesold (1996b), the Dublin Gulch basin receives moderate precipitation and has extreme variations in temperature. Based on analysis of climate data collected intermittently from site during 1979-80, 1984-85, and 1993-95, combined with long-term regional values from Keno Hill and Mayo, Knight Piesold (1996b) estimated average annual precipitation of about 375 mm at the mouth of Dublin Gulch and about 600 mm at the headwaters in the uplands above the valley. Average monthly temperatures range from about -23°C in January to about 13°C in July, with recorded extreme temperatures ranging between -60°C to 35°C.

2.2. Physiography, Drainage and Vegetation

The project site is located within the Dublin Gulch drainage basin. Dublin Gulch drains the surrounding highlands to the west toward Haggart Creek, which flows from north to south. Several streams drain the surrounding highlands, forming a trellis drainage pattern of roughly perpendicular streams, as illustrated in Figure 4.

The project site is characterized by rugged hilly terrain, with ground elevations ranging between approximately 800 and 1500 m above sea level. Figure 5 shows the distribution of slope angles across the Dublin Gulch basin. Slope angles often exceed 20 degrees, particularly near the planned open pit, along the north valley wall above Dublin Gulch, and in much of the drainage basins for Eagle Pup, Stewart Gulch and Olive Gulch.

Most of the site is vegetated, with black spruce forests being relatively common. The lower reach of Dublin Gulch has been completely reworked by placer mining activities and is therefore largely devoid of vegetation.

2.3. Bedrock Geology

According to Knight Piesold (1996a and 1996b), the Eagle Gold project is located in the Selwyn Basin, a geological region characterized by chert, shale and schist. The Selwyn Basin comprises four main lithological units (Lower Schist, Keno Hill Quartzite, Upper Schist, and Hyland Group) and has several granite masses with nearby gold veins rich in silver, lead, zinc and quartz. The Lower Schist and Keno Hill Quartzite are of Mesozoic-age, the Upper Schist is of Paleozoic-age and the Hyland Group of Proterozoic to Lower Cambrian age. There are three principal thrust sheets in the Selwyn Basin, from east to west, the Dawson, Tombstone, and Robert Service. Four phases of deformation have been identified, of which only the first two resulted in the generation of prominent structures. Thrusting N:\BGC\Projects\0792 Victoria Gold\002 Site Facilities Geotech\06 Report\main report\ 0792002 Eagle Gold SIR FINAL Mar10.docx

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during the first phase resulted in the widespread development of foliation that was subsequently deformed by gentle, regional-scale folding during the second phase of deformation. Several east-trending, south-plunging anticlines in the Dublin Gulch area are attributed to this second deformational event. During the Cretaceous period, there were three events of granitoid intrusion associated with numerous mineral deposits including the Eagle Gold property.

A thin veneer of residual, heavily weathered and decomposed rock overlies much of the project area, varying in thickness from 1 to 2 m, grading down to coarser, heavily-fractured bedrock at relatively shallow depths. Bedrock is comprised of granodiorite and various metasediments. The Dublin Gulch deposit area is dominated by a northeast trending intrusive stock, roughly 2 km long by 500 m wide. This granodiorite stock intruded into the surrounding host sediments, which consist of strongly foliated quartzose and locally calcareous phyllites to quartz-biotite-andalusite schists. The granodiorite and metasediments have both been described as fresh, moderately strong to strong, and heavily jointed and fractured.

2.4. Surficial Geology

The surficial geology of the Eagle Gold property has been mapped by Bond (1998) and is illustrated in Figure 6. The valley bottom is dominated by alluvium and placer mining tailings. The uplands are dominated by an apron or blanket of colluvium over bedrock, with some areas of shallower bedrock with a thinner veneer of colluvium. The Haggart Creek Valley to the west of the project site is filled with a mix of alluvial deposits and placer tailings. A till blanket has been mapped along the east side of Haggart Creek, south of its confluence with Dublin Gulch.

2.5. Seismicity

Site specific seismic hazard information was obtained from Natural Resources Canada at www.EarthquakesCanada.ca. The National Building Code of Canada (NBCC) design ground motions, corresponding to a 2 % probability of exceedence in 50 years (0.000404 per annum) are detailed in Table 1 below.

	j · · · ·			
Sa(0.2)	Sa(0.5)	Sa(1.0)	Sa(2 0)	PGA (a)
04(012)	04(0.0)	04(110)	04(210)	10/1(9)
0.513	0.312	0.155	0.086	0.245

 Table 1.
 National Building Code of Canada Recommended Design Motions.

It is noted that these design motions are significantly higher than reported in the Knight Piesold reports from 1996, as seismic design in Canada underwent a complete overhaul coincident with the introduction of the 2005 update of the National Building Code.

Ground motions for other return periods are provided in Table 2 below.

Probability of exceedence per annum	0.010	0.0021	0.001
Probability of exceedence in 50 years	40 %	10 %	5 %
Sa(0.2)	0.131	0.272	0.368
Sa(0.5)	0.076	0.160	0.219
Sa(1.0)	0.037	0.077	0.107
Sa(2.0)	0.020	0.043	0.059
PGA	0.072	0.139	0.182

Table 2.	Ground M	lotions fo	r other	Probabilities.
i able Z.	Ground N	viotions to	other	Propabilities

The distribution of recorded seismic events in the vicinity of the project site, as obtained from Natural Resources Canada, is illustrated in Figure 7.

The seismic hazard described above can be re-stated in terms of a representative earthquake event. An earthquake of M5.65 located at a distance of 17 km from the site would yield ground motions similar to those reported above. This de-aggregation of the seismic hazard was provided by the Geological Survey of Canada (GSC) on the basis of site coordinates. They were requested to do the de-aggregation for peak ground acceleration, and using the return period/annual probability specified in the National Building Code (therefore applicable to buildings). Slightly different values may apply for other structures to which the NBCC does not apply, and for which other components of the hazard (specific spectral acceleration values, rather than PGA) may be more important. The information provided by GSC was accompanied by the following qualifying notes:

De-aggregations of the NBCC Robust seismic hazard generate a suite of files, one for each period, for each site.

"Robust" hazard values are the ones used in the NBCC and are the higher of the H, R, C, and F model values at each site. Where any of the three other models give hazard values "sub-equal" to that from the highest model for any period, for that period the de-aggregations for those other models should also be considered for engineering purposes. This is because certain hazard and risk contributions of those other models may exceed those of the Robust model.

A hazard example might be for liquefaction, where nearby, small-magnitude sources from the H model may give the Robust value of PGA (suitable for structural design of short-period buildings), but the liquefaction hazard may come from mid-distance large-magnitude earthquakes in the R model (because of the longer duration of ground motions from those sources).

A risk example might be for structural damage, to the degree that it is influenced by duration effects not captured by the 5%-damped spectral values.

"Sub-equal" can be generally taken as 70% or greater of the Robust value for any period, but there is no certainty that this is the correct value for all cases. The user needs to decide.

3.0 GEOTECHNICAL INVESTIGATIONS

3.1. General

The field work for this project was conducted in July and August, 2009, and included the following tasks:

- Initial reconnaissance to refine the test pit and borehole plans;
- Excavation of test pits to refusal or the limit of reach of a CAT 235B excavator;
- Visual classification and sampling of overburden materials;
- Ground ice classification, where encountered;
- Supervision of drilling using solid stem auger and triple tube coring;
- Supervision of dynamic cone penetration testing of overburden materials at selected boreholes, where possible;
- Visual classification of bedrock core; and
- Installation of instrumentation, including standpipe piezometers, monitoring wells (for others), and thermistor strings.

The test pit program was designed to develop an understanding of the engineering properties of the overburden materials. The borehole program was planned to penetrate bedrock where it was expected to be deep, and to characterize overburden and bedrock conditions at those locations.

Overburden materials were described according to the Unified Soil Classification System (USCS) (ASTM D24887) using Canadian Foundation Engineering Manual (CFEM 2006) grain size boundaries. Frozen soils were classified according to ASTM D4083.

The locations of all test pits and boreholes were estimated using a handheld GPS unit. Coordinates are expected to be accurate to within 5-20 m horizontally, depending on satellite coverage, and 5-20 m vertically.

Certain areas of the site were inaccessible due to steep slopes, heavy vegetation, or soft wet ground, necessitating the selection of alternate test pit locations.

3.2. Terrain Units for Data Presentation

The subsurface exploration program focused on probable heap leach pad and waste rock dump locations. However, as described in Section 1.2, prospective locations for facilities were added during the planning and execution of the field work. It is understood that the Ann Gulch and Olive Gulch heap leach options are currently considered the preferred options, but it is also understood that VGC may still wish to consider some of the earlier options.

N:\BGC\Projects\0792 Victoria Gold\002 Site Facilities Geotech\06 Report\main report\ 0792002 Eagle Gold SIR FINAL 1Mar10.docx Page 7

The data in this report are presented in accordance with the specific area of the property that they were obtained. Therefore, for the purposes of data presentation, the site has been subdivided into a number of terrain units, as follows:

- Bawn Boy Gulch catchment;
- Olive Gulch catchment;
- Stewart Gulch catchment;
- Eagle Pup catchment;
- Stuttle Gulch catchment;
- East side of Haggart Creek between Dublin and Platinum Gulches;
- Ann Gulch Catchment;
- Lower reach of Dublin Gulch;
- Middle reach of Dublin Gulch; and
- Open pit area.

These terrain units are illustrated in Figure 8. The data have been so organized to allow VGC to consider facility alternatives without requiring BGC to reorganize and reinterpret the data.

3.3. Test Pitting

The testpitting program was carried out between 18 July and 8 August, 2009. A total of 69 test pits were excavated throughout the project area, using VGC's onsite Caterpillar 325B excavator, which has a maximum reach of about 6.5m to 7m. Test pit locations are illustrated in Figure 9. Test pit observations allowed for characterization of subsurface conditions and collection of disturbed soil samples for laboratory testing.

A summary of the overburden materials observed in the test pits is provided in Table 3, and test pit logs are provided in Appendix A. PVC casing with the bottom end capped was installed in ten backfilled test pits exhibiting frozen ground, used to allow for later insertion of a thermistor string for shallow ground temperature measurements. Two slotted groundwater monitoring standpipes were installed in test pits where notable seepage was observed.

Representative samples were collected from many test pits for laboratory index testing, including moisture content determination, and Atterberg limits and grain size analysis on selected representative samples. Bulk samples were also collected from several test pits and stored for later laboratory testing to assess their suitability as construction borrow materials. Laboratory test results to date are provided in Appendix B and summarized in Section 2.5.

N:\BGC\Projects\0792 Victoria Gold\002 Site Facilities Geotech\06 Report\main report\ 0792002 Eagle Gold SIR FINAL 1Mar10.docx Page 8

Table 3.Test Pit Summary

		Coordinate	es (NAD 83)	Depth of Froz	zen Ground		E	End of Test Pit
				•	Bottom	Excess		
Terrain Unit	TP ID#	Easting (m)	Northing (m)	Top (m)	(m)	Ice	Depth (m)	Reason
Ann Gulch	TP-BGC09-A-1	459466	7101320	0.5	0.0	N	1.3	frozen
Ann Gulch	TP-BGC09-HL1-1	458948	7101250	0.3	2.0	Y	6.5	bedrock
Ann Gulch	TP-BGC09-HL1-2	458936	7101100	0.3	4.5	N	6.2	limit of reach
Ann Gulch	TP-BGC09-HL6-1	459796	7102150	N/A	N/A	N	6.5	limit of reach
Ann Gulch	TP-BGC09-HL6-10	459543	7101640	2.0	3.0	N	4.8	bedrock
Ann Gulch	TP-BGC09-HL6-11	459726	7101620	N/A	N/A	N	2.8	bedrock
Ann Gulch	TP-BGC09-HL6-12	459355	7101600	N/A	N/A	N	5.8	sloughing
Ann Gulch	TP-BGC09-HL6-13	459238	7101510	N/A	N/A	N	3.3	bedrock
Ann Gulch	TP-BGC09-HL6-14	459282	7101200	N/A	N/A	N	6.2	bedrock
Ann Gulch	TP-BGC09-HL6-15	459687	7101790	0.2	0.8	Y	5.3	bedrock
Ann Gulch	TP-BGC09-HL6-16	459570	7101990	N/A	N/A	N	5.3	bedrock
Ann Gulch	TP-BGC09-HL6-17	459551	7101770	N/A	N/A	N	3.3	bedrock
Ann Gulch	TP-BGC09-HL6-2	459724	7102130	N/A	N/A	N	4.4	bedrock
Ann Gulch	TP-BGC09-HL6-3	459658	7102090	0.9	2.0	N	6.2	bedrock
Ann Gulch	TP-BGC09-HL6-4	459407	7101750	2.8	3.0	N	4.8	bedrock
Ann Gulch	TP-BGC09-HL6-5	459308	7101830	N/A	N/A	N	4.0	sloughing
Ann Gulch	TP-BGC09-HL6-6	459757	7102380	0.5	1.7	Y	5.5	bedrock
Ann Gulch	TP-BGC09-HL6-7	459883	7102300	N/A	N/A	N	5.4	bedrock
Ann Gulch	TP-BGC09-HL6-8	459200	7101350	1.2	N/A	N	2.6	sloughing
Ann Gulch	TP-BGC09-HL6-9	459933	7101890	1.2	1.5	N	3.8	bedrock
Eagle Pup	TP-BGC09-WR-1	460089	7100710	N/A	N/A	N	6.0	limit of reach
Eagle Pup	TP-BGC09-WR-2	460204	7100820	4.0	5.0	Ν	6.0	limit of reach
Eagle Pup	TP-BGC09-WR-3	460469	7100950	N/A	N/A	Ν	5.8	bedrock
Eagle Pup	TP-BGC09-WR-4	460385	7100960	N/A	N/A	N	3.0	bedrock
Eagle Pup	TP-BGC09-WR-5	460212	7100990	N/A	N/A	Ν	4.7	bedrock
Eagle Pup	TP-BGC09-WR-6	460060	7100840	1.5	N/A	Y	6.5	limit of reach
Eagle Pup	TP-BGC09-WR-7	459893	7100900	0.3	1.5	Y	2.5	seepage
Eagle Pup	TP-BGC09-WR-8	460165	7100360	0.4	0.5	Y	3.5	seepage
Eagle Pup	TP-BGC09-WR-9	460174	7100580	1.1	1.4	N	6.5	limit of reach
Lower Reach Dublin Gulch	TP-BGC09-A-2	458713	7100790	3.5	4.0	N	4.5	limit of reach
Lower Reach Dublin Gulch	TP-BGC09-DG-1	459318	7101010	N/A	N/A	N	0.0	seepage
Lower Reach Dublin Gulch	TP-BGC09-DG-3	458987	7100940	N/A	N/A	N	5.0	boulders
Lower Reach Dublin Gulch	TP-BGC09-DG-4	458311	7100860	1.0	N/A	Y	3.0	frozen
Lower Reach Dublin Gulch	TP-BGC09-HL4-10	458464	7100780	N/A	N/A	N	6.5	limit of reach
Olive Gulch	TP-BGC09-HL5-1	461916	7100360	N/A	N/A	N	4.4	bedrock
Olive Gulch	TP-BGC09-HL5-10	462461	7100370	N/A	N/A	N	2.8	seepage
Olive Gulch	TP-BGC09-HL5-2	461745	7100620	N/A	N/A	N	6.0	limit of reach
Olive Gulch	TP-BGC09-HL5-3	461696	7100760	0.2	N/A	Y	2.0	frozen
Olive Gulch	TP-BGC09-HL5-4	462119	7100180	N/A	N/A	Ň	5.5	limit of reach
Olive Gulch	TP-BGC09-HL5-5	462404	7100180	N/A	N/A	N	2.0	bedrock
Olive Gulch	TP-BGC09-HL5-6	462551	7100380	N/A	N/A	N	5.5	seepade
Olive Gulch	TP-BGC09-HL5-7	462478	7100680	N/A	N/A	N	4.8	bedrock

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Table 3.Test Pit Summary

Olive Gulch TP-BGC09-HL5-8 462283 7100690 N/A N/A N 0.9 Olive Gulch TP-BGC09-HL5-9 462139 7100720 N/A N/A N 1.4 Stuttle Gulch TP-BGC09-HL4-1 459711 7100710 0.3 N/A Y 1.9 Stuttle Gulch TP-BGC09-HL4-13 459109 7100570 0.2 N/A Y 1.5 Stuttle Gulch TP-BGC09-HL4-15 459268 7100520 0.2 N/A Y 1.3 Stuttle Gulch TP-BGC09-HL4-3 459530 7100250 0.2 N/A Y 1.3 Stuttle Gulch TP-BGC09-HL4-3 459530 7100220 0.6 N/A Y 2.3 Stuttle Gulch TP-BGC09-HL4-4 459594 7100720 0.6 N/A N 6.0 Stuttle Gulch TP-BGC09-HL4-5 459685 7100410 0.2 N/A N 6.0 Stuttle Gulch TP-BGC09-HL4-6 459609 7100220	
Olive Gulch TP-BGC09-HL5-9 462139 7100720 N/A N/A N 1.4 Stuttle Gulch TP-BGC09-HL4-1 459711 7100710 0.3 N/A Y 1.9 Stuttle Gulch TP-BGC09-HL4-13 459109 7100570 0.2 N/A Y 1.5 Stuttle Gulch TP-BGC09-HL4-14 459268 7100520 0.3 N/A Y 1.3 Stuttle Gulch TP-BGC09-HL4-15 459317 7100250 0.2 N/A Y 1.3 Stuttle Gulch TP-BGC09-HL4-2 459530 7100890 0.3 N/A Y 2.3 Stuttle Gulch TP-BGC09-HL4-3 459427 7100720 0.6 N/A Y 5.0 Stuttle Gulch TP-BGC09-HL4-5 459685 7100410 0.2 N/A Y 2.2 Stuttle Gulch TP-BGC09-HL4-7 459297 7100520 0.3 N/A Y 2.8 Stuttle Gulch TP-BGC09-HL4-8 459413 7100410	
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Stuttle Gulch TP-BGC09-HL4-13 459109 7100570 0.2 N/A Y 1.5 Stuttle Gulch TP-BGC09-HL4-14 459268 7100520 0.3 N/A Y 1.9 Stuttle Gulch TP-BGC09-HL4-15 459317 7100250 0.2 N/A Y 1.3 Stuttle Gulch TP-BGC09-HL4-2 459530 7100890 0.3 N/A Y 2.3 Stuttle Gulch TP-BGC09-HL4-3 459427 7100720 0.6 N/A Y 5.0 Stuttle Gulch TP-BGC09-HL4-3 459427 7100720 0.6 N/A N 2.2 Stuttle Gulch TP-BGC09-HL4-3 459427 7100720 0.6 N/A N 2.2 Stuttle Gulch TP-BGC09-HL4-6 459699 7100220 N/A N/A N 6.5 Stuttle Gulch TP-BGC09-HL4-7 459297 7100620 0.3 N/A Y 2.8 Stuttle Gulch TP-BGC09-HL4-8 459413 7100410	
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West Haggart Creek TP-BGC09-HL4-11 458653 7100630 0.2 N/A Y 1.5 West Haggart Creek TP-BGC09-HL4-12 458885 7100460 0.8 N/A Y 1.9	
West Haggart Creek TP-BGC09-HL4-12 458885 7100460 0.8 N/A Y 1.9	
West Haggart Creek I P-BGC09-HL4-16 458835 7100220 0.5 N/A Y 2.0	
West Haggart Creek TP-BGC09-HL4-17 458655 7100230 0.6 N/A Y 1.6	
West Haggart Creek TP-BGC09-HL4-18 458499 7100230 1.6 N/A Y 4.7	
Open Pit TP-BGC09-P-1 460470 7099260 N/A N/A N 3.5	
Open Pit TP-BGC09-P-2 460318 7099420 N/A N/A N 2.5	
Open Pit TP-BGC09-P-3 459826 7099380 N/A N/A N 5.5	
Open Pit TP-BGC09-P-4 459931 7099710 N/A N/A N 2.2	

bedrock
bedrock
frozen
limit of reach
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limit of reach
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bedrock
bedrock
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bedrock

3.4. Borehole Drilling

Boreholes were drilled by Top Rank Diamond Drilling, subcontracted to Aggressive Drilling of Kelowna, BC. Top Rank Diamond Drilling used a Pioneer 2 rubber tire mounted auger drill rig equipped with an HQ3 core barrel for rock coring and a 4.5" solid stem auger for overburden drilling and sampling. An AST bobcat was used to transport the drill rig around site.

BGC and Stantec shared the drill rig for geotechnical and hydrogeological investigations, respectively. A total of nineteen boreholes were drilled between August 10, 2009 and September 3, 2009, seven boreholes under the supervision of BGC to characterize the groundwater, overburden and near surface bedrock, and twelve under the supervision of Stantec for the installation of monitoring wells. For the BGC boreholes, a field engineer was with the drill rig at all times to observe drilling progress, log the soil for geotechnical and ground ice properties, take photographs, and conduct dynamic cone penetration testing.

Borehole locations were surveyed using a hand held GPS unit and are illustrated in Figure 10. Borehole completion details are summarized in Table 4. Detailed borehole logs are presented in Appendix C.

	HOLE ID	Northing (m)	Easting (m)	Final Depth (m)	Depth to Rock (m)	Depth to Water (m)	Excess Ice Observed? Yes/No	Installation Type
Ann Gulch	AG-3	459502	7101320	13.7	7.6	N/A	No	DCPT, Thermistor
Lower Reach Dublin Gulch	DG-2	458992	7100880	16.3	14.3	4.9	No	DCPT, Monitoring Well
Lower Reach Dublin Gulch	DG-3	458985	7100920	20.7	12.1	N/A	No	DCPT
Lower Reach Dublin Gulch	DG-1	459302	7101060	12.8	7.6	2.0	No	DCPT, Monitoring Well
Stuttle Gulch	STU-3	459083	7100690	31.1	N/A	N/A	Yes	Thermistor
Stuttle Gulch	STU-4	459050	7100720	18.3	N/A	N/A	Yes	DCPT, Thermistor
West side Haggart Creek	DG-7	458783	7100460	19.8	N/A	N/A	No	DCPT

Table 4.Summary of Boreholes Supervised by BGC.

Three thermistor strings were installed to 10 m depth in selected auger holes. Ground temperature profiles are provided in Appendix D.

Stantec supervised nine additional boreholes for the installation of monitoring wells, as outlined in Table 5. Well construction details for the BGC boreholes can be found on the borehole logs in Appendix C.

	HOLE ID	Northing (m)	Easting (m)	Final Depth (m)	Depth to Rock (m)	Depth to Water ¹ (m)	Installation Type
Ann Gulch	AG-1	459364	7101840	15.9	9.8	14.0	MW
Ann Gulch	AG-2	459732	7101880	15.9	12.8	14.9	MW
Lower Reach							
Dublin Gulch	DG-4	458318	7100870	16.8	N/A	6.0	MW
Olive Gulch	OG-1	461892	7100460	6.1	0.3	N/A	N/A ²
Olive Gulch	OG-2	462246	7100680	15.9	0.3	6.6	MW
Olive Gulch	OG-3	461347	7101450	8.4	N/A	1.9	MW
Stuttle Gulch	STU-1	459647	7100430	14.3	9.0	14.0	MW
Stuttle Gulch	STU-2	459331	7100660	10.1	N/A	0.0	MW
West side Haggart Creek	DG-5	458448	7100430	13.7	N/A	13.2	MW

Table 5	Summary	of Boreholes	Supervised b	v Stantec
	Summary	OI DOI CHOICS	Supervised b	y otantee.

Notes: 1. Groundwater measurements made between 18 August and 2 September 2009 after development of wells.

2. No well installed by Stantec in this hole.

3.4.1. Auger Drilling

Solid stem auger drilling was advanced to the limits of drilling capability (i.e. length of auger) or to refusal, typically on boulders or bedrock. Select disturbed soil samples were sent for laboratory testing. Test results are provided in Appendix B and summarized in Section 3.5.

3.4.2. Rock Coring

The rock coring program comprised coring bedrock at four borehole locations (see Table 4 – rock was cored in the four boreholes where it was encountered). All coring was done using an HQ core barrel, which provided 61.2 mm diameter core. The recovered rock core was placed in core boxes, photographed, and transported to a core logging shack at camp. Rock core photographs are provided in Appendix E.

As part of the geotechnical diamond drill investigation, the following data were collected to allow the assessment of rock mass properties according to the Rock Mass Rating (RMR) Classification system proposed by Bieniawski (1976):

- top of run depth (m);
- bottom of run depth (m);

- lithology;
- core recovery length (m);
- Rock Quality Designation (RQD) length (m);
- number of discontinuities;
- hardness;
- alteration/weathering; and
- average and minimum joint condition.

These characteristics are noted in the borehole logs in Appendix C.

3.4.3. Dynamic Cone Penetration Testing

The drill rig was equipped with an automatic trip hammer for dynamic cone penetration testing of the overburden. Dynamic cone penetration testing (DCPT) is an in-situ test widely used in geotechnical engineering for assessing the in situ strength of soils. The dynamic cone was connected to the end of AWJ rods and pushed with the automatic trip hammer until practical refusal (100 blows/ft) or the cone was observed to bounce. Blow counts were measured in 0.3 m (1 ft) increments.

Hole ID												
DH-BGC09-DG-3	Depth (m)	1.22	1.52	1.83	2.13	2.44	2.74	3.05	3.35	3.66	3.96	4.27
	Blows per foot	3	3	10	14	20	14	12	33	47	41	71
	Depth (m)	4.57	4.88	5.18	5.49	5.79	6.10					
	Blows per foot	48	39	20	21	46	100					
DH-BGC00-DG-2	Depth (m)	1 52	1.83	2 13	2 11	2 74	3.05	3 35	3 66	3 96	A 27	4 57
DI1 00000 00 2	Blows per foot	0	7	2.15 Q	2.77	6	12	10	13	1/	18	22
	Depth (m)	4 88	, 5 18	5 49	, 5 79	6 10	640	671	7.01	7 32	7.62	7 92
	Blows per foot	15	13	14	21	27	20	16	18	18	18	12
	Depth (m)	8 23	8 53	8 84	9 14	9.45	20	10	10	10	10	12
	Blows per foot	19	28	22	18	50						
	Depth (m)	1 52	2 11	3.05								
DII-DOC09-010-3	Blows per foot	No per	2.44	frozen	around							
	blows per loot											
DH-BGC09-STU-4	Depth (m)	1.52	3.1	6.1	1.06							
	Blows per foot	No penetration, boulders										
DH-BGC09-DG-7	Depth (m)	6.71	7.01	19.8								
	Blows per foot	1	100	100								
DH-BGC09-AG-3	Depth (m)	2.1	2.4	3.2								
	Blows per foot	7	100	100								

Table 6. Summary of Dynamic Cone Penetration Testing

These results are also noted and/or illustrated graphically in the borehole logs in Appendix C.

3.4.4. Thermistor Installations

Thermistor strings were installed in three drilholes to measure ground temperatures up to 10.0 m depth at these locations. Thermistor strings were installed in 50 mm, schedule 80 PVC casing. Installation details are summarized in Table 7 below. The ground temperature cables were manufactured by EBA Engineering Consultants Ltd. During the 2009 site investigation, ground temperatures were periodically measured with a multi-meter and switch box. Tables summarizing the thermistor node depths, recorded temperatures, temperature profiles, and thermistor manufacturer calibration sheets are presented in Appendix D. The first set of temperature measurements were recorded two days after borehole completion. Ground temperature profiles are presented in Appendix D. The ground temperature measurements indicate warm permafrost (warmer than -0.5°C) conditions at two locations (i.e. both boreholes in Stuttle Gulch), and an absence of permafrost at the third (i.e. in Ann

Gulch). Notably, frozen ground was observed to a depth of 19.7 m at BH-BGC09-STU-3 during drilling.

Table 7. Summary of 2009 Thermistor String Installations

Hole ID	Northing (m)	Easting (m)	Location
	(,	7404000	
DH-BGC09-AG-3	459502	7101320	Ann Gulch
DH-BGC09-STU-3	459083	7100690	Stuttle Gulch
DH-BGC09-STU-4	459050	7100720	Stuttle Gulch

3.4.5. Monitoring Wells and Standpipe Piezometers

A total of 14 monitoring wells were installed by Stantec during the 2009 site investigation program. Monitoring wells were constructed using 50 mm diameter, Schedule 40, threaded PVC pipe with a screened section of slotted PVC at the bottom. A cap was placed at the bottom of each well assembly. The sand pack around the PVC consisted of silica sand (#10 - #20 U.S. standard sieve size), filled to approximately 0.6 m above the screen. Typically, bentonite seals of 0.6 m to 1.5 m thickness were placed above the sand pack.

3.5. Laboratory Testing

Representative grab samples were collected by BGC staff for laboratory index testing. Natural moisture content tests were conducted according to ASTM standard D2216. Grain size distributions were determined for selected samples using sieves only (i.e. no hydrometers), according to ASTM standard D422. The complete laboratory results are presented in Appendix B. Table 8 summarizes the laboratory test results.

Table 8.Summary of Laboratory Index Tests.

		Sample Depth				Grain Size Distribution			
Terrain Unit	Test Hole ID#	(m)	Material Genesis	Descriptive Texture	Moisture Content				
					(% dry weight)	% ~2um	% <75 um	% <4 75mm	% ~75mm
Ann Gulch		12	Colluvium	GRAVEL sandy trace to some silt	10.5	N/A	<u>να <γ 5 μπ</u> Ν/Α	N/A	N/A
Ann Gulch		0.5-0.6	Colluvium	Gravelly SAND some silt trace clay	12.0	N/A	N/A	N/A	N/A
		0.5-0.0	Colluvium	Highly to completely weathered Metasedimentary	12.5	N/A	N/A	N/A	N/A
Ann Gulch	TP-BGC09-HL6-1	2.5-3.0	Weathered Bedrock	Bedrock.	15.2	1.177	14/7 (1.077	14/7 (
				Highly to completely weathered Metasedimentary		N/A	N/A	N/A	N/A
Ann Gulch	TP-BGC09-HL6-1	5.0-5.5	Weathered Bedrock	Bedrock.	9.3				
Ann Gulch	TP-BGC09-HL6-2	0.4-0.5	Colluvium	Silty SAND and GRAVEL, trace clay.	11.8	N/A	N/A	N/A	N/A
				Highly to completely weathered Metasedimentary		N/A	N/A	N/A	N/A
Ann Gulch	TP-BGC09-HL6-2	1.0-1.1	Weathered Bedrock	Bedrock.	7.9	_			
Ann Gulch	TP-BGC09-HL6-3	0.4-0.5	Colluvium	Silty GRAVEL, some sand, trace clay.	11.7	5	33	29	33
Ann Gulch	TP-BGC09-HL6-3	1.0-1.2	Colluvium	Sandy SILT and GRAVEL.	7.9	N/A	N/A	N/A	N/A
Ann Gulch	TP-BGC09-HL6-3	2.0-2.5	not classified	SAND, trace gravel, trace silt.	9.8	N/A	N/A	N/A	N/A
Ann Gulch	TP-BGC09-HL6-3	5.0-5.5	Weathered Bedrock	Completely weathered Metasedimentary rock.	7.3	N/A	N/A	N/A	N/A
Ann Gulch	TP-BGC09-HL6-4	0.4-0.6	not classified	Sandy GRAVEL, trace silt.	3.9	N/A	N/A	N/A	N/A
Ann Gulch	TP-BGC09-HL6-4	0.8-1.0	not classified	Sandy GRAVEL, trace silt.	3.8	N/A	N/A	N/A	N/A
Ann Gulch	TP-BGC09-HL6-4	2.8	not classified	Sandy GRAVEL, trace silt.	11.2	N/A	N/A	N/A	N/A
				Completely to highly weathered Metasedimentary			8	43	50
Ann Gulch	TP-BGC09-HL6-4	4.0-4.4	Weathered Bedrock	Bedrock. 6.3		N1/A	N1/A	N1/A	N1/A
Ann Gulch	TP-BGC09-HL6-5	0.3-0.4	Colluvium	Silty GRAVEL, some sand. 12.1		N/A	N/A	N/A	N/A
Ann Culob		0.0.1.0	Completely Weathered	Sandy CRAVEL same silt trace day		N/A	N/A	N/A	N/A
Ann Gulch		0.9-1.0	Moothorod Podrook	Sandy GRAVEL, some slit, trace clay.		Ν/Δ	Ν/Δ	Ν/Δ	Ν/Δ
Ann Gulch		3.5-4	not clossified		J. I	N/A	N/A	N/A	N/A
Ann Guich		0.3-0.4		Gravelly SILT, some sand	13.0		32	20	30
Ann Guich		1.0-1.2		Gravelly SILT, some salu.	12.0	Ν/Λ	52 N/A	2.5 N/A	59 N/A
Ann Guich		0.2-0.3		Croughy SH T, some sond trace dou	13.3	N/A N/A			
Ann Guich		0.8-0.9	Colluvium			N/A N/A			
Ann Guich		2.0-2.5	Colluvium	Sandy GRAVEL, some silt.	8.0	N/A	N/A		N/A
Ann Guich		0.3	Collumine	SILT and ORGANICS.	240.4	N/A N/A			
Ann Guich	TP-BGC09-HL6-8	1	Colluvium	Gravelly SILT, some sand, trace clay.	13.6	N/A	N/A	N/A	N/A
Ann Guich		2.0-2.4	Colluvium	Gravelly SILT, some sand, trace clay.	13.4		N/A		N/A
Ann Guich		0.3-0.4		Gravelly SILT, some sand.	13.2	N/A	N/A N/A	N/A N/A	N/A N/A
Ann Guich	TP-BGC09-HL6-9	0.9-1.1	not classified	Gravelly SILT, some sand, trace clay.	11.8	N/A	N/A	N/A	N/A
Ann Guich	TP-BGC09-HL6-10	0.5-0.6	not classified	Gravelly SILT, some sand.	17.1	N/A	N/A	N/A	N/A
Ann Guich	TP-BGC09-HL6-10	0.8-0.9	not classified	Gravelly SILT, some sand.	10.6		34		37
Ann Gulch	TP-BGC09-HL6-10	2.2-2.7	Weathered Bedrock	Completely weathered Metasedimentary Rock.	10.6	N/A	N/A	N/A	N/A
Ann Gulch	TP-BGC09-HL6-11	0.8	Weathered Bedrock	Highly weathered Mica Schist, some sand infill.	14.0	N/A	N/A	N/A	N/A
Ann Gulch	TP-BGC09-HL6-12	1	Colluvium	SAND and GRAVEL, some clay.	10.0	N/A	N/A	N/A	N/A
Ann Gulch	TP-BGC09-HL6-12	4.3	not classified	Coarse GRAVEL, some sand.	9.9	N/A	N/A	N/A	N/A
Ann Gulch	TP-BGC09-HL6-13	1	not classified	SANDY GRAVEL, some silt, trace cobble.	8.2	N/A	N/A	N/A	N/A
Ann Gulch	TP-BGC09-HL6-14	1	Colluvium	SAND and GRAVEL, some silt, trace clay.	15.6	N/A	N/A	N/A	N/A
Ann Gulch	TP-BGC09-HL6-15	3	Colluvium	Gravelly SAND, trace cobbles.	13.2	N/A	N/A	N/A	N/A
Ann Gulch	TP-BGC09-HL6-16	0.45	not classified	SAND and GRAVEL, some silt.	10.5	N/A	N/A	N/A	N/A
Ann Gulch	TP-BGC09-HL6-17	1	Colluvium	SAND and GRAVEL, some cobble, trace silt.	4.8	N/A	N/A	N/A	N/A

Terration Test Deliver Material Genesis Descriptive Texture Molitable Control % - cgam		Sample Depth		1			Grain Size Distribution				
Am Guich The Bocole HL12 In mic described Gravity CLAY, traces and. 10.1 NA NA NA NA Ann Guich The Bocole HL12 1 not described Clayey SAND and GRAVEL. 11.5 NA	Terrain Unit	Test Hole ID#	(m)	Material Genesis	Descriptive Texture	Moisture Content					
Arm Guch TP-80C0H-L1-1 1.5 and calessing Gravely CLAY targe sand. 10.1 ANA AVAIN AVAIN AVAIN Arm Guch TP-80C0H-L1-2 1 not dessified Clayey SAND and GRAVEL, silly SAND fore from N/A <						(% dry weight)	% ~2um	% ~75 um	% <1 75mm	% ~75mm	
Ann Guid: TP-BSC03+IL-12 T and statistical Clayery SNN2 incl GRAVIL 11.5 N/A N/A N/A N/A Ann Guich TP-BSC03+IL-12 5.8 not dessified Sty SNN2 incl GRAVEL, sity SAND incr GRAVEL, sity SAND incr GRAVEL, sity SAND incr GRAVEL, sone gravel. 4.2 N/A N/A N/A N/A Eagle Pup TP-BSC03-WR-1 6. Collwrium Sity GRAVEL, sone gravel. 8.2 N/A N/A N/A N/A Eagle Pup TP-BSC03-WR-1 6. not dessified Sity GRAVEL, sone gravel. 8.2 N/A N/A N/A N/A Eagle Pup TP-BSC02-WR-1 6. not classified Sandy GRAVEL, sone gravel. 8.2 N/A N/A N/A Eagle Pup TP-BSC02-WR-2 4 and dessified Sandy GRAVEL, sone gravel. 11 N/A N/A N/A Eagle Pup TP-BSC02-WR-4 0.9 not classified Gravely SAND, sone obloces. 16.8 4 41 22 34 Eagle Pup TP-BSC02-WR-6 0.5	Ann Gulch	TP-BGC09-HI 1-1	1.5	not classified	Gravelly CLAY trace sand	10.1	<u>/₀<∠µm</u> N/A	<u>να <γ 5 μπ</u> Ν/Α	N/A	N/A	
Construct Classified Classified Classified Classified Classified NA	Ann Gulch	TP-BGC09-HI 1-2	1.0	not classified	Clavey SAND and GRAVE	11.5	N/A	N/A	N/A	N/A	
Ann Guich TH-BGCOP-HL1-2 6.8 not classified Size Sim 30.4 No. No. No. Ann Guich DH-BGCOP-HL1 0.6 Colonvam Site (BAND, some gravel. 4.2 N/A N/A N/A N/A N/A Eagle Pup TH-BGCOP-WR-1 0.6 Colonvam Site (BAND, some gravel. 8.2 N/A N/A <td< td=""><td></td><td></td><td>I</td><td></td><td>Clavey SAND and GRAVEL silty SAND lens from</td><td>11.0</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></td<>			I		Clavey SAND and GRAVEL silty SAND lens from	11.0	N/A	N/A	N/A	N/A	
Ann Gudn DH-BGC09AG-3 4.57 Indicalastilied Silty SAND, some gravul. 4.2 NA NA NA NA Eagle Pup TP-BGC09-WR-1 0.6 Collurulm Silty SAND, some gravul. 8.2 NA NA NA NA NA Eagle Pup TP-BGC09-WR-1 6 not classified Sandy CRAYEL, some and trace dity, trace it 12.5 NA NA NA NA NA Eagle Pup TP-BGC09-WR-1 6 And classified Sandy CRAYEL, some ally, trace it 12.5 NA NA NA NA NA Eagle Pup TP-BGC09-WR-2 0.6-0.0 Colluvium cobleschouldman, cobleschouldman, cobleschouldman, collassified Sandy CRAYEL, some acida, trace fires. 11.7 NA NA NA NA NA Eagle Pup TP-BGC09-WR-4 0.5 not classified Sandy CRAYEL, some acida, trace fires. 11.6 NA NA NA NA NA Eagle Pup TP-BGC09-WR-4 0.5 not classified Sandy CRAYEL, some acida, some daw, collasa	Ann Gulch	TP-BGC09-HL1-2	5.8	not classified	5.5-5.8m	30.4	14/7				
Eagur Pup TP-BGCO2WR-1 0.6 Columin Sitty GRAVEL, some sand, trade day, 10.2 NA NA NA NA Eagur Pup TP-BGCO2WR-1 6 not classified Sandy CALY, some gravelit. 12.5 NA NA NA NA NA Eagle Pup TP-BGCO3WR-2 0.8-0.9 Coluvium coluvium (CRAVEL, some sail, trace day, trace 3.4 NA N	Ann Gulch	DH-BGC09-AG-3	4.57	not classified	Silty SAND, some gravel.	4.2	N/A	N/A	N/A	N/A	
Eagle Pup TP-BGC09-WR-1 6 Ind classified Sandy CLAY, some gravel. 8.2 N/A N/A N/A N/A Eagle Pup TP-BGC09-WR-1 6 not classified SAND, some gravel, trace sit, trace isit, t	Eagle Pup	TP-BGC09-WR-1	0.6	Colluvium	Silty GRAVEL, some sand, trace clay.	10.2	N/A	N/A	N/A	N/A	
Engle Purp TP-BGC09-WR-1 6 not classified SAND, some gravel, race sit. 12.5 N/A N/A N/A N/A Exigle Purp TP-BGC09-WR-2 0.8-0.9 Colluvium Sondy GRAVEL, some city, race sit. 11 N/A N/A<	Eagle Pup	TP-BGC09-WR-1	5	not classified	Sandy CLAY, some gravel.	8.2	N/A	N/A	N/A	N/A	
Engle Pup TP-BGC09-WR-2 0.8.0.9 Colluvium Sandy GRAVEL, some slit, trace aly, trace NA NA NA NA Eagle Pup TP-BGC09-WR-2 4 not classified Sandy GRAVEL, some slit, trace slit. 11 NA NA NA NA Eagle Pup TP-BGC09-WR-2 4 not classified Gravelly SLT, some cobless. 16.8 4 41 22 34 Eagle Pup TP-BGC09-WR-4 0.5 not classified Gravelly SLT, some cobless. 16.9 NA NA NA NA Eagle Pup TP-BGC09-WR-5 0.5 not classified Silly GRAVEL some sand. 9.7 NA NA NA NA Eagle Pup TP-BGC09-WR-6 0.9-1.0 Collurium Gravelly SLT, some clay. 16.2 NA NA NA NA Eagle Pup TP-BGC09-WR-6 4 Collurium Gravelly SLT, some clay. 16.2 NA NA NA NA Eagle Pup TP-BGC09-WR-7 0.9 Collurium Grav	Eagle Pup	TP-BGC09-WR-1	6	not classified	SAND, some gravel, trace silt.	12.5	N/A	N/A	N/A	N/A	
Eagle Pup TP-BGC04-WR-2 0.8-0.9 Colluvum cobbles/boulders. 9.4					Sandy GRAVEL, some silt, trace clay, trace		N/A	N/A	N/A	N/A	
Eagle Pup TP-BCC09-WR-2 4 not classified Sandy GRAVEL some day. Incossitt. 11 NA NA NA Eagle Pup TP-BCC09-WR-3 2 Weathered Bedrock Metasedimentary rock trace fines. 16.8 4 41 22 34 Eagle Pup TP-BCC09-WR-4 0.5 not classified Gravely SAIN, some cobbles. 16.9 N/A N/A N/A N/A Eagle Pup TP-BCC09-WR-5 0.5 not classified Sity GRAVEL, some sand. 9.7 N/A N/A N/A N/A Eagle Pup TP-BCC09-WR-5 1. not classified Sity GRAVEL, some sand. 9.7 N/A N/A N/A N/A Eagle Pup TP-BCC09-WR-5 0.9-1.0 Colluvum Gravely SIT, some day. 16.2 N/A N/A N/A N/A Eagle Pup TP-BCC09-WR-6 4 Colluvum Gravely SIT, some day. 16.2 N/A N/A N/A Eagle Pup TP-BCC09-WR-6 0.9-1.0 not classified Sity SAND, some gravel.	Eagle Pup	TP-BGC09-WR-2	0.8-0.9	Colluvium	cobbles/boulders.	9.4					
Eagle Pup TP-BGCO9-WR-3 2 Weathered Bedrock Highly fractured Metasedimentary rock, trace lines. 17.7 N/A N/A N/A Eagle Pup TP-BGCO9-WR-4 0.5 not classified Gravelly SLIT. some cobbles. 16.8 4 41 22 34 Eagle Pup TP-BGCO9-WR-5 0.5 not classified Gravelly SLIT. some cobbles. 16.9 N/A N/A N/A N/A N/A Eagle Pup TP-BGCO9-WR-6 0.4-10 Collivvium Gravelly SLIT. some clay. 16.2 N/A N/A N/A N/A Eagle Pup TP-BGCO9-WR-6 1.0-1.0 Collivvium Gravelly SLIT. some clay. 10.2 N/A N/A N/A Eagle Pup TP-BGCO9-WR-6 0.0-1.0 not classified Slity SAND, some gravel. 11.8 N/A N/A N/A Eagle Pup TP-BGCO9-WR-8 2 not classified Slity SAND, some gravel. 18.3 N/A N/A N/A Eagle Pup TP-BGCO9-WR-8 2.0-2.5 not classified	Eagle Pup	TP-BGC09-WR-2	4	not classified	Sandy GRAVEL, some clay, trace silt.	11	N/A	N/A	N/A	N/A	
Eagle Pup TP-BGC09-WR-4 0.5 not classified Gravelly SLT, some cobbles. 16.8 4 41 22 34 Eagle Pup TP-BGC09-WR-4 0.9 not classified Slty GRAVEL, some sand. 9.7 NA N/A N/A N/A Eagle Pup TP-BGC09-WR-5 0.5 not classified Slty GRAVEL, some sand. 4.8 N/A N/A N/A N/A Eagle Pup TP-BGC09-WR-6 0.9-1.0 Colluvium Gravelly SLT, some clay. 10.2 N/A N/A N/A Eagle Pup TP-BGC09-WR-6 1.0-12 Colluvium Gravelly SLT, some clay. 10.2 N/A N/A N/A Eagle Pup TP-BGC09-WR-6 1 Colluvium Gravelly SLT, some clay. 14.7 N/A N/A N/A Eagle Pup TP-BGC09-WR-8 0.9-1.0 not classified Sity SAND, some gravel. 18 N/A N/A N/A Eagle Pup TP-BGC09-WR-8 0.5-0.7 Colluvium Sity SAND, some gravel. 19.3 N/A<	Eagle Pup	TP-BGC09-WR-3	2	Weathered Bedrock	Highly fractured Metasedimentary rock, trace fines.	17.7	N/A	N/A	N/A	N/A	
Eagle Pup TP-BGC09-WR-5 0.5 not classified Gravelly SAND, some sand. 9.7 N/A	Eagle Pup	TP-BGC09-WR-4	0.5	not classified	Gravelly SILT, some cobbles.	16.8	4	41	22	34	
Eagle Pup TP-BGC09-WR-5 0.5 not classified Silly GRAVEL, some sand. 9.7 N/A N/A N/A N/A Eagle Pup TP-BGC09-WR-5 1 not classified Silly GRAVEL, some sand. 4.8 N/A N/A <td< td=""><td>Eagle Pup</td><td>TP-BGC09-WR-4</td><td>0.9</td><td>not classified</td><td>Gravelly SAND, some cobbles.</td><td>16.9</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></td<>	Eagle Pup	TP-BGC09-WR-4	0.9	not classified	Gravelly SAND, some cobbles.	16.9	N/A	N/A	N/A	N/A	
Eagle Pup TP-BGC9-WR-5 1 not classified Silty GRAVEL, some sand. 4.8 NA N/A N/A N/A Eagle Pup TP-BGC09-WR-6 0.9-1.0 Collwrium Gravelly SLT, some clay. 16.2 N/A N/A N/A N/A N/A Eagle Pup TP-BGC09-WR-6 4 Collwrium Gravelly SLT, some clay. 10.2 N/A N/A N/A N/A Eagle Pup TP-BGC09-WR-6 4 Collwrium Gravelly SLT, some clay. 11.7 N/A N/A N/A N/A Eagle Pup TP-BGC09-WR-8 0.9-1.0 not classified Silty SAND, some gravel. 8 N/A N/A N/A N/A Eagle Pup TP-BGC09-WR-9 0.5-0.7 Collwrium Silty SAND, some gravel. 19.3 N/A N/A N/A N/A Eagle Pup TP-BGC09-WR-9 0.5-0.6 not classified Silty SAND, some gravel. 12.8 N/A N/A N/A N/A Lower Reach Dublin Guich TP-BGC09-WR-9	Eagle Pup	TP-BGC09-WR-5	0.5	not classified	Silty GRAVEL, some sand.	9.7	N/A	N/A	N/A	N/A	
Eagle Pup TP-B3C09-WR-6 0.9.1.0 Colluvium Gravelly SILT, some day. 16.2 N/A N/A N/A N/A Eagle Pup TP-B3C09-WR-6 4 Colluvium Gravelly SILT, some day. 10.2 N/A N/A N/A N/A N/A N/A Eagle Pup TP-B3C09-WR-6 4 Colluvium Gravelly SILT, some day. 11.8 N/A N/A N/A N/A N/A Eagle Pup TP-B3C09-WR-8 0.9-1.0 not classified Silty GRAVEL, trace sand. 17 19 43 38 Eagle Pup TP-B3C09-WR-8 0.9-1.0 not classified Silty GRAVEL, trace sand. 17.7 19 43 38 Eagle Pup TP-B3C09-WR-8 2 not classified Silty SAND, some gravel. 19.3 N/A N/A N/A N/A Eagle Pup TP-B3C09-WR-9 2.0-2.5 not classified SAND, some gravel. 19.3 N/A N/A N/A N/A Lower Reach Dublin Guch TP-B3C09-HL4-10	Eagle Pup	TP-BGC09-WR-5	1	not classified	Silty GRAVEL, some sand.	4.8	N/A	N/A	N/A	N/A	
[Eagle Pup TP-BGC09-WR-6 1.0-1.2 Colluvium Gravelly SILT, some cay. 10.2 N/A	Eagle Pup	TP-BGC09-WR-6	0.9-1.0	Colluvium	Gravelly SILT, some clay.	16.2	N/A	N/A	N/A	N/A	
Eagle Pup TP-BGC09-WR-8 4 Colluvium Gravely SILT, some clay. 14.7 N/A N/A N/A N/A Eagle Pup TP-BGC09-WR-8 0.9 Colluvium Silty GRAVEL, trace sand. 17 19 43 38 Eagle Pup TP-BGC09-WR-8 0.9-1.0 not classified Silty GRAVEL, trace sand. 17 19 43 38 Eagle Pup TP-BGC09-WR-8 2 not classified Silty SAND, some gravel. 8 N/A N/A N/A N/A Eagle Pup TP-BGC09-WR-9 2.0-2.5 not classified SAND, some gravel. 9.7 N/A N/A N/A N/A Lower Reach N/A N/A N/A N/A N/A N/A N/A Dublin Gulch TP-BGC09-WR-9 2.0-2.5 not classified Silty SAND, some gravel. 12.8 N/A N/A N/A N/A Dublin Gulch TP-BGC09-HL4-10 3.0-3.4 not classified Silty SAND, some gravel. 12.6 7 <t< td=""><td>Eagle Pup</td><td>TP-BGC09-WR-6</td><td>1.0-1.2</td><td>Colluvium</td><td>Gravelly SILT, some clay.</td><td>10.2</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></t<>	Eagle Pup	TP-BGC09-WR-6	1.0-1.2	Colluvium	Gravelly SILT, some clay.	10.2	N/A	N/A	N/A	N/A	
Eagle Pup TP-BGC09-WR-7 0.9 Colluvium Stity GANLE, trace sand. 17 19 43 38 Eagle Pup TP-BGC09-WR-8 0.9-1.0 not classified Silty SAND, some gravel. 11.8 N/A N/A N/A N/A N/A Eagle Pup TP-BGC09-WR-9 0.5-0.7 Colluvium Silty SAND, some gravel. 8 N/A N/A N/A N/A N/A Eagle Pup TP-BGC09-WR-9 0.5-0.7 Colluvium Silty SAND, some gravel. 19.3 N/A N/A N/A N/A N/A Lower Reach Dublin Gulch TP-BGC09-HL4-10 0.5-0.6 not classified Gravelly SILT, some sand, trace clay. 12.8 N/A N/A N/A Lower Reach Dublin Gulch TP-BGC09-HL4-10 5.0-5.5 not classified SILT, some sand, some gravel. 9.4 N/A N/A N/A N/A Lower Reach Dublin Gulch TP-BGC09-HL4-10 6.5 not classified SILT, some sand, some gravel. 9.4 N/A N/A <	Eagle Pup	TP-BGC09-WR-6	4	Colluvium	Gravelly SILT, some clay.	14.7	N/A	N/A	N/A	N/A	
Eagle Pup TP-BGC09-WR-8 0.9-1.0 not classified Silty SAND, some gravel. 11.8 N/A N/A N/A N/A Eagle Pup TP-BGC09-WR-8 2 not classified Silty SAND, some gravel. 8 N/A	Eagle Pup	TP-BGC09-WR-7	0.9	Colluvium	Silty GRAVEL, trace sand.	17		19	43	38	
Eagle Pup TP-BGC09-WR-8 2 not classified Sitty SAND, some gravel. 8 N/A N/A N/A N/A Eagle Pup TP-BGC09-WR-9 0.5-0.7 Colluvium Sitty SAND, some gravel. 19.3 N/A N	Eagle Pup	TP-BGC09-WR-8	0.9-1.0	not classified	Silty SAND, some gravel.	11.8	N/A	N/A	N/A	N/A	
Lagle Pup TP-BGC09-WR-9 0.5-0.7 Colluvium Silly SAND, some gravel. 19.3 N/A N/A N/A N/A Eagle Pup TP-BGC09-WR-9 2.0-2.5 not classified SAND, some gravel. trace silt. 9.7 N/A	Eagle Pup	TP-BGC09-WR-8	2	not classified	Silty SAND, some gravel.	8	N/A	N/A	N/A	N/A	
Eagle Pup TP-BGC09-WR-9 2.0-2.5 not classified SAND, some gravel, trace silt. 9.7 N/A 16 25 60 Lower Reach 0.5-0.6 not classified Gravelly SILT, some sand, trace clay. 12.8 N/A N/A N/A N/A N/A Lower Reach 0.5-0.6 not classified Silty SAND, some gravel. 12.6 7 15 63 15 Lower Reach 0.5-0.5 not classified Silty SAND, some gravel. 9.4 N/A N/A N/A N/A Dublin Gulch TP-BGC09-HL4-10 5.0-5.5 not classified Silt, some sand, some gravel. 9.4 N/A N/A N/A N/A Lower Reach 0.05 not classified Silt, some sand, some gravel. 9.4 N/A N/A N/A N/A N/A Lower Reach 0.5 not classified Silt, some sand, some gravel. 9.4 N/A N/A N/A N/A Lower Reach 0.5 not classified Silt, some sand, some gravel. 9.7<	Eagle Pup	TP-BGC09-WR-9	0.5-0.7	Colluvium	Silty SAND, some gravel.	19.3	N/A	N/A	N/A	N/A	
Lower Reach Dublin GulchN/AN/AN/AN/AN/ALower Reach Dublin Gulch3.0-3.4not classifiedGravelly SILT, some sand, trace clay.12.87156315Dublin GulchTP-BGC09-HL4-103.0-3.4not classifiedSilty SAND, some gravel.12.67156315Dublin GulchTP-BGC09-HL4-105.0-5.5not classifiedSILT, some sand, some gravel.9.4N/AN/AN/AN/ADublin GulchTP-BGC09-HL4-106.5not classifiedSILT, some sand, some gravel.9.4N/AN/AN/AN/ALower Reach Dublin Gulch0.5not classifiedSILT, some sand, some gravel.14N/AN/AN/AN/ALower Reach Dublin Gulch0.5not classifiedSILT, some sand, some gravel.14N/AN/AN/AN/ALower Reach Dublin Gulch0.5not classifiedSAND and GRAVEL, silty.9.7N/AN/AN/AN/ALower Reach Dublin GulchTP-BGC09-DG-11.5Possibly Fluvial 	Eagle Pup	TP-BGC09-WR-9	2.0-2.5	not classified	SAND, some gravel, trace silt.	9.7	N/A	16	25	60	
Dublin Gulch TP-BGC09-HL4-10 0.5-0.6 not classified Gravelly SILT, some sand, trace clay. 12.8 Lower Reach 12.6 7 15 63 15 Dublin Gulch TP-BGC09-HL4-10 3.0-3.4 not classified Silty SAND, some gravel. 12.6 7 15 63 15 Lower Reach N/A N/A N/A N/A N/A N/A N/A N/A Lower Reach N/A N/A N/A N/A N/A N/A N/A Lower Reach N/A N/A N/A N/A N/A N/A Lower Reach N/A N/A N/A N/A N/A Dublin Gulch TP-BGC09-DG-1 0.5 not classified SILT, some sand, some gravel. 14 Lower Reach N/A N/A N/A N/A N/A Dublin Gulch TP-BGC09-DG-1 0.5 not classified SAND and GRAVEL, silty. 9.7 Lower Reach SaND and GRAVEL, some silt, some cobbles, trace N/A N/A N/A N/A Lower Reach SaND and GRAVEL, some silt. 5.2 N/A N/A N/A Dublin Gulch TP-BGC09-DG-3 1 Placer Tailings C	Lower Reach						N/A	N/A	N/A	N/A	
Lower Reach 12.6 15 63 15 Lower Reach 12.6 12.6 12.6 12.6 12.6 Lower Reach 5.0-5.5 not classified SILT, some sand, some gravel. 9.4 N/A N/A N/A N/A Lower Reach 0.00 12.6 12.6 12.6 12.6 12.6 12.6 Lower Reach 0.00 12.6 12.6 12.6 12.6 12.6 12.6 Lower Reach 0.00 12.6 14 14 14 14 14 Lower Reach 0.5 not classified SAND and GRAVEL, sity. 9.7 14 14 14 Lower Reach 0.5 not classified SAND and GRAVEL, sity. 9.7 14 14 14 Lower Reach 0.5 N/A N/A N/A N/A N/A N/A Dublin Gulch TP-BGC09-DG-1 1.5 Possibly Fluvial boulders. 5.2 16 16 Lower Reach 0.00 0.00 12.6 12.6 16 16 16 Lower Reach 0.01 19.6 10.5 10.5 10.5 10.5 10.5 10.5 10.5 Lower Re	Dublin Gulch	TP-BGC09-HL4-10	0.5-0.6	not classified	Gravelly SILT, some sand, trace clay.	12.8	-	45	00	45	
Dublin Guich TP-BGC09-HL4-10 3.0-3.4 Indicassified SllT, some sand, some gravel. N/A N/A N/A N/A N/A Lower Reach	Lower Reach		2024	not classified	Silty SAND, some gravel	12.6	1	15	63	15	
Dublin Gulch Lower Reach Dublin GulchTP-BGC09-HL4-105.0-5.5not classifiedSILT, some sand, some gravel.9.4N/AN/AN/AN/ADublin Gulch Dublin GulchTP-BGC09-HL4-106.5not classifiedSILT, some sand, some gravel.14N/AN/AN/AN/ADublin Gulch Dublin GulchTP-BGC09-DG-10.5not classifiedSAND and GRAVEL, silty.9.7N/AN/AN/AN/ADublin Gulch Dublin GulchTP-BGC09-DG-11.5Possibly Fluvialboulders.5.2N/AN/AN/AN/ADublin Gulch Dublin GulchTP-BGC09-DG-31Placer TailingsClayey SILT.38.7N/AN/AN/AN/ADublin Gulch Dublin GulchTP-BGC09-DG-33not classifiedSAND and GRAVEL, trace silt.7.0N/AN/AN/AN/ADublin Gulch Dublin GulchTP-BGC09-DG-33not classifiedSAND and GRAVEL, trace silt.7.0N/AN/AN/AN/ALower Reach Dublin GulchDublin Gulch TP-BGC09-DG-33not classifiedSAND and GRAVEL, trace silt.7.0N/AN/AN/AN/ALower Reach Dublin GulchTP-BGC09-DG-41TillSILT and COBBLES, some gravel.31.5N/AN/AN/AN/ALower Reach Dublin GulchTP-BGC09-DG-41.8not classifiedSandy SILT trace clay.77.5N/AN/AN/AN/A	Lower Reach	1F-DGC09-11L4-10	5.0-5.4		Sity SAND, Some gravel.	12.0	N/A	N/A	N/A	N/A	
Lower Reach Dublin GulchTP-BGC09-HL4-106.5not classifiedSILT, some sand, some gravel.14N/AN/AN/AN/AN/ALower Reach Dublin GulchTP-BGC09-DG-10.5not classifiedSAND and GRAVEL, silty.9.7N/AN/AN/AN/AN/ALower Reach Dublin GulchTP-BGC09-DG-11.5Possibly FluvialSAND and GRAVEL, some silt, some cobbles, trace boulders.9.7N/AN/AN/AN/AN/ALower Reach Dublin GulchTP-BGC09-DG-31Placer TailingsClayey SILT.38.7N/AN/AN/AN/ALower Reach Dublin GulchTP-BGC09-DG-33not classifiedSAND and GRAVEL, trace silt.7.0N/AN/AN/AN/ALower Reach Dublin GulchTP-BGC09-DG-31TillSILT and COBBLES, some gravel.31.5N/AN/AN/AN/ADublin GulchTP-BGC09-DG-41TillSILT and COBBLES, some gravel.31.5N/AN/AN/AN/ADublin GulchTP-BGC09-DG-41.8not classifiedSandy SILT, trace clay,27.5N/AN/AN/AN/A	Dublin Gulch	TP-BGC09-HL4-10	5.0-5.5	not classified	SILT, some sand, some gravel,	9.4	1.177		11// (1.0/7.4	
Dublin Gulch TP-BGC09-HL4-10 6.5 not classified SILT, some sand, some gravel. 14 Lower Reach Dublin Gulch TP-BGC09-DG-1 0.5 not classified SAND and GRAVEL, silty. 9.7 N/A N/A N/A N/A N/A Lower Reach Dublin Gulch TP-BGC09-DG-1 1.5 Possibly Fluvial SAND and GRAVEL, some silt, some cobbles, trace 9.7 N/A N/A N/A N/A N/A Lower Reach Dublin Gulch TP-BGC09-DG-1 1.5 Possibly Fluvial boulders. 5.2 N/A N/A N/A N/A N/A Lower Reach Dublin Gulch TP-BGC09-DG-3 1 Placer Tailings Clayey SILT. 38.7 N/A N/A N/A N/A N/A Lower Reach Dublin Gulch TP-BGC09-DG-3 3 not classified SAND and GRAVEL, trace silt. 7.0 N/A N/A N/A N/A Lower Reach Dublin Gulch TP-BGC09-DG-4 1 Till SILT and COBBLES, some gravel. 31.5 N/A N/A N/A N/A Lower Reach Dublin Gulch TP-BGC09-DG-4 1 <td>Lower Reach</td> <td></td> <td></td> <td></td> <td>- ,</td> <td></td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td>	Lower Reach				- ,		N/A	N/A	N/A	N/A	
Lower Reach Dublin GulchTP-BGC09-DG-10.5not classifiedSAND and GRAVEL, silty.9.7N/AN/AN/AN/AN/ALower Reach Dublin GulchTP-BGC09-DG-11.5Possibly FluvialSAND and GRAVEL, some silt, some cobbles, trace boulders.N/AN/AN/AN/AN/AN/ALower Reach Dublin GulchTP-BGC09-DG-31Placer TailingsClayey SILT.38.7N/AN/AN/AN/ALower Reach Dublin GulchTP-BGC09-DG-33not classifiedSAND and GRAVEL, trace silt.7.0N/AN/AN/AN/ALower Reach Dublin GulchTP-BGC09-DG-33not classifiedSAND and GRAVEL, trace silt.7.0N/AN/AN/AN/ALower Reach Dublin GulchTP-BGC09-DG-41TillSILT and COBBLES, some gravel.31.5N/AN/AN/AN/ADublin GulchTP-BGC09-DG-41.8not classifiedSandy SILT, trace clay.27.5N/AN/AN/AN/A	Dublin Gulch	TP-BGC09-HL4-10	6.5	not classified	SILT, some sand, some gravel.	14					
Dublin Gulch TP-BGC09-DG-1 0.5 not classified SAND and GRAVEL, sity. 9.7 Image: Classified state stat	Lower Reach						N/A	N/A	N/A	N/A	
Lower Reach Dublin GulchTP-BGC09-DG-11.5Possibly FluvialSAND and GRAVEL, some silt, some cobbles, trace boulders.N/AN/AN/AN/AN/ALower Reach Dublin GulchTP-BGC09-DG-31Placer TailingsClayey SILT.38.7N/AN/AN/AN/ALower Reach Dublin GulchTP-BGC09-DG-33not classifiedSAND and GRAVEL, trace silt.7.0N/AN/AN/AN/ALower Reach Dublin GulchTP-BGC09-DG-41TillSILT and COBBLES, some gravel.31.5N/AN/AN/AN/ALower Reach Dublin GulchTP-BGC09-DG-41.8not classifiedSandy SILT, trace clay.27.5N/AN/AN/AN/A	Dublin Gulch	TP-BGC09-DG-1	0.5	not classified	SAND and GRAVEL, silty.	9.7			N1/A	N 1/A	
Dublin Guich TP-BGC09-DG-1 1.5 Possibly Plavial Doublets. 5.2 N/A N/A N/A N/A Lower Reach 1 Placer Tailings Clayey SILT. 38.7 N/A N/A N/A N/A Lower Reach 1 Placer Tailings Clayey SILT. 38.7 N/A N/A N/A N/A Lower Reach 1 TP-BGC09-DG-3 3 not classified SAND and GRAVEL, trace silt. 7.0 N/A N/A N/A N/A Lower Reach 1 Till SILT and COBBLES, some gravel. 31.5 N/A N/A N/A N/A Lower Reach 1 Till SILT and COBBLES, some gravel. 31.5 N/A N/A N/A N/A Lower Reach 1 Till Sandy SILT, trace clay. 27.5 N/A N/A N/A N/A	Lower Reach		1 5	Descibly Fluxial	SAND and GRAVEL, some silt, some cobbles, trace	5.0	N/A	N/A	N/A	N/A	
Lower Reach Dublin GulchTP-BGC09-DG-31Placer TailingsClayey SILT.38.7N/AN/AN/AN/ALower Reach Dublin GulchTP-BGC09-DG-33not classifiedSAND and GRAVEL, trace silt.7.0N/AN/AN/AN/ALower Reach Dublin GulchTP-BGC09-DG-33not classifiedSAND and GRAVEL, trace silt.7.0N/AN/AN/AN/ALower Reach Dublin GulchTP-BGC09-DG-41TillSILT and COBBLES, some gravel.31.5N/AN/AN/AN/ALower Reach Dublin GulchTP-BGC09-DG-41.8not classifiedSandy SILT, trace clay.27.5N/AN/AN/AN/A	Lower Reach	1P-DGC09-DG-1	1.5			0.2	NI/A	Ν/Λ	Ν/Λ	NI/A	
Lower Reach N/A N/A N/A N/A N/A N/A Dublin Gulch TP-BGC09-DG-3 3 not classified SAND and GRAVEL, trace silt. 7.0 N/A N/A N/A N/A Lower Reach Dublin Gulch TP-BGC09-DG-3 3 not classified SAND and GRAVEL, trace silt. 7.0 N/A N/A N/A N/A Lower Reach Dublin Gulch TP-BGC09-DG-4 1 Till SILT and COBBLES, some gravel. 31.5 N/A N/A N/A N/A Lower Reach Dublin Gulch TP-BGC09-DG-4 1.8 not classified Sandy SILT, trace clay. 27.5 N/A N/A N/A	Dublin Gulch	TP-BGC09-DG-3	1	Placer Tailings	Clavey SILT	38.7	IN/A	IN/A	IN/A	IN/A	
Dublin Gulch TP-BGC09-DG-3 3 not classified SAND and GRAVEL, trace silt. 7.0 N/A N/A N/A N/A Lower Reach Image: Comparison of the second	Lower Reach		•			00.1	N/A	N/A	N/A	N/A	
Lower Reach Dublin Gulch TP-BGC09-DG-4 1 Till SILT and COBBLES, some gravel. 31.5 N/A N/A N/A N/A Lower Reach Dublin Gulch TP-BGC09-DG-4 1.8 not classified Sandy SILT, trace clay. 27.5 27.5 7.5	Dublin Gulch	TP-BGC09-DG-3	3	not classified	SAND and GRAVEL, trace silt.	7.0					
Dublin Gulch TP-BGC09-DG-4 1 Till SILT and COBBLES, some gravel. 31.5 Image: Mail of the state of the sta	Lower Reach						N/A	N/A	N/A	N/A	
Lower Reach Dublin Gulch TP-BGC09-DG-4 1.8 not classified Sandy SILT, trace clay, 27.5 N/A N/A N/A N/A	Dublin Gulch	TP-BGC09-DG-4	1	Till	SILT and COBBLES, some gravel.	31.5					
Dublin Guich TTP-BGC09-DG-4 TT 1.8 Thot classified Sandy SILT trace clav. TT 27.5	Lower Reach			and all and 'f' all		07.5	N/A	N/A	N/A	N/A	
	Dublin Gulch	TP-BGC09-DG-4	1.8	not classified	Sandy SIL1, trace clay.	27.5	ΝΙ/Λ	Ν1/Δ	Ν1/Δ	ΝΙ/Λ	
Lower Reacting N/A	Lower Reach		4 57	not classified	Silty GRAV/EL some sand some cobbles	12 7	N/A	N/A	N/A	N/A	
Lower Reach DH-BGC09-DG-2 7.62 not classified Sandy GRAVEL some silt cobbles. 12.7 N/A N/A N/A N/A	Lower Reach		7.62	not classified	Sandy GRAVEL, some silt cobbly	11.0	N/A	N/A	N/A	N/A	
N:\BGC\Projects\0792 Victoria Gold\002 Site Facilities Geotech\06 Report\main report\ 0792002 Eagle Gold SIR FINAL 1Mar10.docx	N:\BGC\Proiects\0792	Victoria Gold\002 Site Facilitie	s Geotech\06 Report\	main report\ 0792002 Eagle Gold S	SIR FINAL 1Mar10.docx	11.3				Page 17	

	Sample Depth				Grain Size Distribution				
Terrain Unit	Test Hole ID#	(m)	Material Genesis	Descriptive Texture	Moisture Content				
					(% dry weight)	9/ 9	0/ . 7 5 um	0/ . 4 7 5 mm	0/ .75 ma ma
Dublin Gulch						% <zµm< td=""><td>% <75 µm</td><td>% <4.<i>1</i> 3mm</td><td>% <7511111</td></zµm<>	% <75 µm	% <4. <i>1</i> 3mm	% <7511111
Lower Reach						Ν/Δ	NI/A	Ν/Δ	Ν/Δ
Dublin Gulch	DH-BGC09-DG-2	1.52	not classified	Clavey GRAVEL, some sand, some silt.	16.8	IN/73		N/A	IN/A
Lower Reach						N/A	N/A	N/A	N/A
Dublin Gulch	DH-BGC09-DG-3	1.52	Placer Tailings	Clayey SILT, some sand.	25.4	-	-		·
Lower Reach				GRAVEL, COBBLES and BOULDERS, silty, some		N/A	N/A	N/A	N/A
Dublin Gulch	DH-BGC09-DG-3	6.10	not classified	sand.	14.1				
Olive Oulet		0.7	not alogoitical	Granodiorite BOULDERS and COBBLES, silty sand		N/A	N/A	N/A	N/A
Olive Guich	TP-BGC09-HL5-2	0.7	not classified			Ν1/Δ	N1/A	N1/A	N1/A
Olive Guich	TP-BGC09-HL5-3	1	not classified	Sandy GRAVEL, trace cobbles and boulders.	8.8	N/A	IN/A	N/A	N/A
Olive Gulch	TP-BGC09-HL5-3	1.5	not classified	Sandy GRAVEL, trace cobbles and boulders.	1.5	IN/A	N/A	N/A	N/A
Olive Gulch	TP-BGC09-HL5-3	1.8	not classified	Sandy GRAVEL, trace cobbles and boulders.	1.8	N/A	N/A	N/A	N/A
Olive Gulch	TP-BGC09-HL5-4	0.5-0.6	not classified	Gravelly SILT, some sand.	12	N1/A	34	24	42
Olive Gulch	TP-BGC09-HL5-4	2.0-2.5	not classified	Gravelly SAND, some silt.	9.1	N/A	N/A	N/A	N/A
Olivo Guleb		1015	Weathered	Completely weathered grapodiarite SAND	6	N/A	N/A	N/A	N/A
Olive Gulch		4.0-4.5		SILT some cand	17.8	N/A	N/A	N/A	N/A
Olive Gulch	TP-BGC09-HL5-6	0.5-0.0	Colluvium	SILT, some gravel trace sand	17.0	N/A	N/A	N/A	N/A
	11 -DOC03-1123-0	0.0-0.7	Weathered	Completely weathered granodiorite SAND trace silt	17.0	N/A	N/A	N/A	N/A
Olive Gulch	TP-BGC09-HL5-6	2.0-2.5	Granodiorite	trace gravel.	13.9				
Olive Gulch	TP-BGC09-HL5-6	5.0-5.5	not classified	SAND, some subrounded gravel.	11.9	N/A	N/A	N/A	N/A
Olive Gulch	TP-BGC09-HL5-7	0.4-0.5	not classified	SILT, some gravel.	17.9	N/A	N/A	N/A	N/A
Olive Gulch	TP-BGC09-HL5-7	0.8-0.9	Colluvium	Silty SAND, some gravel.	9.5	N/A	N/A	N/A	N/A
Olive Gulch	TP-BGC09-HL5-7	2.0-2.5	Colluvium	Gravelly SAND, some silt.	11.7	6	38	30	25
Olive Gulch	TP-BGC09-HL5-8	0.2-0.4	Colluvium	Sandy SILT, trace gravel.	10.6	N/A	N/A	N/A	N/A
Olive Gulch	TP-BGC09-HL5-8	1.5	Bedrock	Granodiorite Bedrock, fractured tabular boulders.	16.7	N/A	N/A	N/A	N/A
Olive Gulch	TP-BGC09-HL5-9	0.4-0.5	not classified	SILT, some sand, some gravel.	29	N/A	N/A	N/A	N/A
Olive Gulch	TP-BGC09-HL5-10	0.5	Colluvium	Silty GRAVEL. some sand.	23.8	N/A	N/A	N/A	N/A
Stuttle Gulch	TP-BGC09-HL4-1	0.5	not classified	SILT, some gravel, trace sand, trace clay,	29	N/A	N/A	N/A	N/A
Stuttle Gulch	TP-BGC09-HL4-1	1.8-1.9	not classified	SILT, some gravel, trace sand, trace clay,	18	N/A	N/A	N/A	N/A
Stuttle Gulch	TP-BGC09-HL4-2	0.2-0.4	not classified	SILT, some gravel, trace sand, trace clay,	35.9	N/A	N/A	N/A	N/A
Stuttle Gulch	TP-BGC09-HL4-2	060.7	not classified	SILT, some gravel, trace sand, trace clay.	74.8	N/A	N/A	N/A	N/A
Stuttle Gulch	TP-BGC09-HL4-2	2.3	not classified	SILT, some gravel, trace sand, trace clay,	25.6	N/A	N/A	N/A	N/A
Stuttle Gulch	TP-BGC09-HL4-3	0.4-0.5	not classified	Silty SAND, some cobbles, some boulders.	18.6	N/A	N/A	N/A	N/A
Stuttle Gulch	TP-BGC09-HL4-3	2.5	not classified	Silty SAND, some gravel, trace clay,	8.8	N/A	N/A	N/A	N/A
Stuttle Gulch	TP-BGC09-HL4-3	4.5	not classified	CLAY, trace gravel, trace silt.	31.5	13	86	1	N/A
Stuttle Gulch	TP-BGC09-HL4-4	0.4-0.5	not classified	Sandy SILT, trace clay, trace gravel,	14.7	N/A	N/A	N/A	N/A
Stuttle Gulch	TP-BGC09-HL4-4	1.5	not classified	Gravelly SAND, trace silt.	10.7	N/A	N/A	N/A	N/A
Stuttle Gulch	TP-BGC09-HL4-5	0.4-0.5	Colluvium	Sandy SILT, some gravel, trace clay,	23.6	N/A	N/A	N/A	N/A
Stuttle Gulch	TP-BGC09-HL4-5	2.5-3.0	Colluvium	Sandy SILT, some gravel, trace clay,	10.4	N/A	N/A	N/A	N/A
Stuttle Gulch	TP-BGC09-HI 4-5	5.5-6.0	Colluvium	Sandy GRAVEL, some silt	7.8	N/A	N/A	N/A	N/A
Stuttle Gulch	TP-BGC09-HI 4-6	0.6-0.7	Colluvium	Silty SAND and GRAVEL	10.4	N/A	N/A	N/A	N/A
Stuttle Gulch	TP-BGC09-HL4-6	3.0-3.5	not classified	Sandy GRAVEL, some silt	5.7		15	40	45
Stuttle Gulch	TP-BGC09-HI 4-7	0.5-0.7	Colluvium	Sandy SILT, some gravel.	14.9	N/A	N/A	N/A	N/A
Stuttle Gulch	TP-BGC09-HI 4-7	1.5-1.85	Colluvium	Gravelly SAND, some silt.	33.2	N/A	N/A	N/A	N/A
				- , - ,					

Terrational Test Hoad DP (Mathematic Generation Control and Contrect and Contrect and Control and Contrect and Control and Contro			Sample Depth				Grain Size Distribution				
Lenstro Guid Personal Processing PersonaProcessing <	Terrain Unit	Test Hole ID#	(m)	Material Genesis	Descriptive Texture	Moisture Content					
Stute Galah 1P-BGC09H-L41 0.340-L4 Organiss Stut/ Galah P/BGC09H-L41 0.340-L4 NA NA Stute Galah P/BGC09H-L43 0.60.9 Fill Gravely SIAD, some sit. 11.2 NA NA NA NA Stute Galah P/BGC09H-L43 0.60.9 Fill Gravely SIAD, some sit. 11.2 NA NA NA NA Stute Galah P/BGC09H-L43 0.61.5 mid closelified SILT, some sond, some gravel. 11.2 NA NA NA NA Stute Galah P/BGC09H-L41 0.61.5 mid closelified Gravely SILT, some sond, some gravel. 11.2 NA NA NA NA Stute Galah P/BGC09H-L414 1.5 nid closelified Gravely SILT, some sond, some gravel. 11.2 NA NA NA NA Stute Galah P/BGC09H-L414 1.5 Collawirm Gravely SILT, some sond, some gravel. 12.2 NA NA NA NA Stute Galah P/BGC09H-L414 1.5 Co						(% dry weight)	% ~2um	% ~75 um	% <1 75mm	% ~75mm	
Spatis Guich TP-85000H148 1.6 Collynam Sandy SLT and GRAVEL 16.0 N/A N/A N/A Statis Guich TP-85000H149 38.3.8 Weathered Bedrock Highy weathered Metasdimentary rock 16.6 N/A N/A </td <td>Stuttle Gulch</td> <td>TP-BGC09-HI 4-8</td> <td>0.3-0.4</td> <td>Organics</td> <td>SILT trace sand trace gravel</td> <td>92.5</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td>	Stuttle Gulch	TP-BGC09-HI 4-8	0.3-0.4	Organics	SILT trace sand trace gravel	92.5	N/A	N/A	N/A	N/A	
Stutte Guiden IP HeSCORPH L49 0.84.0.8 Fill Converting SAND, some atil. 11.2 N/A	Stuttle Gulch		1.5	Colluvium	Sandy SILT and GRAVEL	15.6	N/A	N/A	N/A	N/A	
South Colum TP BC000H14-0 33.8 B Weathware Meanue Bednoxt Highly weathware Meanue Mean	Stuttle Gulch		0.8-0.9	Fill	Gravelly SAND some silt	11.2	N/A	N/A	N/A	N/A	
Sturte Guidn TD+BGC0PH14-13 0.4-0.5 not classified Sturte Suite NA NA NA NA Sturte Guidn TT+BC0PH14-13 0.3-10 ont classified Sturte Suite NA NA NA NA NA Sturte Guidn TT+BC0PH14-13 0.3-10 not classified Gravely SAND, nore sit. 63.2 NA	Stuttle Gulch		3 3-3 8	Weathered Bedrock	Highly weathered Metasedimentary rock	56	N/A	N/A	N/A	N/A	
Statis Object of the Society Study of the Society Study of the Society Study Stu	Stuttle Gulch		0405	not classified	SILT some sand some gravel	12.0	N/A	N/A	N/A	N/A	
State Openant State Openant State	Stuttle Gulch		0.4-0.5	not classified	SILT, some sand, some gravel	92.2	Ν/Δ	Ν/Δ	Ν/Δ	Ν/Δ	
Status Control First	Stuttle Guich		0.9-1.0	not classified	Croyelly SAND, some silt	14.0	N/Δ	Ν/Δ	Ν/Δ	Ν/Δ	
Stute Outcome	Stuttle Guich		1.3-1.3		Gravelly SAND, some send	14.0	N/A	Ν/Α	N/A	N/Δ	
Status Openation Collaboration Or Availability	Stuttle Guich	TP-BGC09-HL4-14	0.7-0.8	Colluvium	Gravelly SILT, some sand.	25.7	N/A				
Status Display Display <thdisplay< th=""> <thdisplay< th=""> <thdi< td=""><td>Stuttle Guich</td><td>TP-BGC09-HL4-14</td><td>1.5</td><td>Colluvium</td><td>Gravelly SILT, some sand.</td><td>33.5</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></thdi<></thdisplay<></thdisplay<>	Stuttle Guich	TP-BGC09-HL4-14	1.5	Colluvium	Gravelly SILT, some sand.	33.5	N/A	N/A	N/A	N/A	
Stulle Guich IP-BGC08+IL+15 0.2-0.3 Colluvium SLL, some sand, some gravel. 12.3 NVA NVA NVA NVA NVA Stutte Guich TP-BGC08+IL+15 0.2-0.10 Colluvium SLLT, some sand, some gravel. 13.2 NVA	Stuttle Guich	TP-BGC09-HL4-14	1.9			25.9	N/A	N/A	N/A	N/A	
Stuffe Guich IP-B42C08+IL2-15 0.9-10 Collavame SILT_some sant, some gravel. 13.2 N/A N/A N/A N/A Stuffe Guich TP-B42C08+TU-3 0.5 not classified SAND and GRAVEL, some silt, trace cobble. 17.1 N/A	Stuttle Gulch	TP-BGC09-HL4-15	0.2-0.3		SILT, some sand, some gravel.	12.3	IN/A	IN/A	N/A	N/A	
Studie Guich IP-BGC09-StU-3 0.5 not classified SAMD and GRAVEL, some silt, trace cobbe. 12.1 N/A N/A N/A N/A Studie Guich TP-BGC09-StU-3 1.5 not classified Samd 9 (MAVEL, some silt, trace cobbe. 17.1 N/A N/A <td< td=""><td>Stuttle Gulch</td><td>TP-BGC09-HL4-15</td><td>0.9-1.0</td><td>Colluvium</td><td>SILT, some sand, some gravel.</td><td>13.2</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></td<>	Stuttle Gulch	TP-BGC09-HL4-15	0.9-1.0	Colluvium	SILT, some sand, some gravel.	13.2	N/A	N/A	N/A	N/A	
Shuffie Guich TP-BGCQ9-STU-4 1.5 not classified SAMD and GRAVEL, some gravel. 111.3 N/A N/A N/A N/A Shuffe Guich TP-BGCQ9-STU-4 1.8 not classified Sandy SLT, some gravel. 111.3 N/A N	Stuttle Gulch	TP-BGC09-STU-3	0.5	not classified	SAND and GRAVEL, some silt, trace cobble.	12.1	N/A	N/A	N/A	N/A	
Stutte Guich TP-BGCO9-STU-4 1 not classified Statute Guich 119.3 N/A	Stuttle Gulch	TP-BGC09-STU-3	1.5	not classified	SAND and GRAVEL, some silt, trace cobble.	17.1	N/A	N/A	N/A	N/A	
Stuttle Guich TP-BGC09-STU-4 1.8 not classified SAND and GRAVEL, some sitt, trace oblev. 21.1 N/A N/A N/A N/A Stuttle Guich DH-BGC09-STU-3 1.52 not classified SILTY SAND and GRAVEL, some clay. 14.3 N/A N	Stuttle Gulch	TP-BGC09-STU-4	1	not classified	Sandy SILT, some gravel.	119.3	N/A	N/A	N/A	N/A	
Stutte Guch DH-BGC09-STU-3 1.52 not classified SNND and GRAVEL, some sit, trace cobble. 21.2 N/A N/A N/A N/A Stutte Guch DH-BGC09-STU-3 7.62 not classified SILTY SAND and GRAVEL, some clay. 114.3 N/A	Stuttle Gulch	TP-BGC09-STU-4	1.8	not classified	Sandy SILT, some subrounded to subangular gravel.	21.1	N/A	N/A	N/A	N/A	
Stutte Guch DH-BGC09-STU-3 7.62 not classified SILTY SAND and GRAVEL, some clay. 14.3 N/A	Stuttle Gulch	DH-BGC09-STU-3	1.52	not classified	SAND and GRAVEL, some silt, trace cobble.	21.2	N/A	N/A	N/A	N/A	
Stutte Guich DH-BGC09-STU-3 9.14 not classified SILTY SAND and GRAVEL, some (say. MISSING N/A N/A N/A N/A Stutte Guich DH-BGC09-STU-3 13.72 not classified SILT and GRAVEL, some, trace gravel. 14.6 N/A N/A N/A N/A N/A Stutte Guich DH-BGC09-STU-3 15.22 not classified SILT and GRAVEL, some,	Stuttle Gulch	DH-BGC09-STU-3	7.62	not classified	SILTY SAND and GRAVEL, some clay.	14.3	N/A	N/A	N/A	N/A	
Stuttle Guich DH-BGC09-STU-3 13.72 not classified SILT and GRAVEL, same, ty, trace clay, 13.2 N/A	Stuttle Gulch	DH-BGC09-STU-3	9.14	not classified	SILTY SAND and GRAVEL, some clay.	MISSING	N/A	N/A	N/A	N/A	
Stuttle Gulch DH-BGC09-STU-3 18.29 not classified SILT and CLAY, some sand, some sint, boulders. 14.6 N/A N/A N/A N/A Stuttle Gulch DH-BGC09-STU-4 15.24 Till Gravelly CLAY, some sand, some silt, boulders. 12.6 N/A N/A N/A N/A N/A Stuttle Gulch DH-BGC09-STU-4 1.52 Colluvium Sitty SAND and GRAVEL, some day. 27.0 N/A N/A N/A N/A West Haggart T Reace Gravelly CLAY, some sand, some silt, boulders. 15.2 N/A N/A N/A N/A N/A Vest Haggart Ont classified SILT, race clay, trace sand. 57.8 N/A N/A N/A N/A Vest Haggart Ont classified Sandy GRAVEL, some gint. 11.8 N/A N/A N/A N/A N/A Vest Haggart Ont classified SILT, some gravel, some sand. 18.5 N/A N/A N/A N/A Vest Haggart T Not classified Silt, some gravel, some sand. </td <td>Stuttle Gulch</td> <td>DH-BGC09-STU-3</td> <td>13.72</td> <td>not classified</td> <td>SILT and GRAVEL, sandy, trace clay.</td> <td>13.2</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td>	Stuttle Gulch	DH-BGC09-STU-3	13.72	not classified	SILT and GRAVEL, sandy, trace clay.	13.2	N/A	N/A	N/A	N/A	
Stuttle Gulch DH-BGC09-STU-4 15.24 Till Gravelly CLAY, some sand, some silt, boulders. 12.6 N/A N/	Stuttle Gulch	DH-BGC09-STU-3	18.29	not classified	SILT and CLAY, some sand, trace gravel.	14.6	N/A	N/A	N/A	N/A	
Stuttle Gulch DH-BGC09-STU-4 1.52 Colluvium Slity SAND and GRAVEL, some clay, Gravelly CLAY, some sand, some silt, boulders. 27.0 N/A N/A <td>Stuttle Gulch</td> <td>DH-BGC09-STU-4</td> <td>15.24</td> <td>Till</td> <td>Gravelly CLAY, some sand, some silt, boulders.</td> <td>12.6</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td>	Stuttle Gulch	DH-BGC09-STU-4	15.24	Till	Gravelly CLAY, some sand, some silt, boulders.	12.6	N/A	N/A	N/A	N/A	
Stuttle Guich DH-BGC09-STU-4 7.62 Till Gravelly CLAY, some sand, some silt, boulders. 15.2 N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-11 0.4-0.6 not classified SILT, trace clay, trace sand. 57.8 N/A N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-11 0.9-1.1 not classified Sandy GRAVEL, some sand. 11.8 N/A N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-12 0.3-0.4 not classified SILT, some gravel, some sand. 18.5 N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-12 1.0-1.1 not classified SILT, some gravel, some sand. 53.1 N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-12 1.0-1.1 not classified SILT, some gravel, some sand. 51.4 N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-12 1.0-1.1 not classified SILT, some gravel, some sand. 51.4 N/A </td <td>Stuttle Gulch</td> <td>DH-BGC09-STU-4</td> <td>1.52</td> <td>Colluvium</td> <td>Silty SAND and GRAVEL, some clay.</td> <td>27.0</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td>	Stuttle Gulch	DH-BGC09-STU-4	1.52	Colluvium	Silty SAND and GRAVEL, some clay.	27.0	N/A	N/A	N/A	N/A	
West Haggart CreekTP-BGC09-HL4-110.4-0.6not classifiedSILT, trace clay, trace sand.57.8N/AN/AN/AN/ACreekTP-BGC09-HL4-110.9-1.1not classifiedSILT, trace clay, trace sand.57.8N/AN/AN/AN/ACreekTP-BGC09-HL4-110.9-1.1not classifiedSILT, some gravel, some sand.11.8N/AN/AN/AN/AVest Haggart CreekTP-BGC09-HL4-120.3-0.4not classifiedSILT, some gravel, some sand.18.5N/AN/AN/AN/AWest Haggart CreekTP-BGC09-HL4-121.0-1.1not classifiedSILT, some gravel, some sand.53.1N/AN/AN/AN/AWest Haggart CreekTP-BGC09-HL4-121.3-1.4not classifiedSandy GRAVEL, some silt.51.43303533West Haggart CreekTP-BGC09-HL4-160.4-0.5not classifiedSilty SAND and GRAVEL.13.2N/AN/AN/AN/AWest Haggart CreekTP-BGC09-HL4-160.9-1.0not classifiedSilty SAND and GRAVEL.13.4N/AN/AN/AN/AWest Haggart CreekTP-BGC09-HL4-160.9-1.0not classifiedSilty SAND, some gravel.15.63481929West Haggart CreekTP-BGC09-HL4-161.8-2.0not classifiedSilt, trace clay, trace gravel.80.4N/AN/AN/AWest Haggart CreekTP-BGC09-HL4-170.3-0.5not classified <td>Stuttle Gulch</td> <td>DH-BGC09-STU-4</td> <td>7.62</td> <td>Till</td> <td>Gravelly CLAY, some sand, some silt, boulders.</td> <td>15.2</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td>	Stuttle Gulch	DH-BGC09-STU-4	7.62	Till	Gravelly CLAY, some sand, some silt, boulders.	15.2	N/A	N/A	N/A	N/A	
Creek TP-BGC09-HL4-11 0.4-0.6 not classified SILT, trace clay, trace sand. 57.8	West Haggart						N/A	N/A	N/A	N/A	
West Haggart CreekTP-BGC09-HL4-110.9-1.1not classifiedSandy GRAVEL, some silt.11.8N/AN/AN/AN/AWest Haggart CreekTP-BGC09-HL4-120.3-0.4not classifiedSILT, some gravel, some sand.18.5N/AN/AN/AN/AN/AWest Haggart CreekTP-BGC09-HL4-121.0-1.1not classifiedSILT, some gravel, some sand.53.1N/AN/AN/AN/AN/AWest Haggart CreekTP-BGC09-HL4-121.0-1.1not classifiedSandy GRAVEL, some silt.51.43303533West Haggart CreekTP-BGC09-HL4-160.4-0.5not classifiedSandy GRAVEL, some silt.13.2N/AN/AN/AN/AWest Haggart CreekTP-BGC09-HL4-160.9-1.0not classifiedSilty SAND and GRAVEL.13.4N/AN/AN/AN/AWest Haggart CreekTP-BGC09-HL4-160.9-1.0not classifiedSilty SAND and GRAVEL.13.4N/AN/AN/AN/AWest Haggart CreekTP-BGC09-HL4-160.9-1.0not classifiedSilty SAND, some gravel.15.63481929West Haggart CreekTP-BGC09-HL4-170.3-0.5not classifiedSilty SAND, some gravel.80.4N/AN/AN/AWest Haggart CreekTP-BGC09-HL4-170.3-0.5not classifiedSilty SAND and GRAVEL.20.3N/AN/AN/AWest Haggart CreekTP-BGC09-HL4-170.7-0.8 <td>Creek</td> <td>TP-BGC09-HL4-11</td> <td>0.4-0.6</td> <td>not classified</td> <td>SILT, trace clay, trace sand.</td> <td>57.8</td> <td></td> <td></td> <td></td> <td></td>	Creek	TP-BGC09-HL4-11	0.4-0.6	not classified	SILT, trace clay, trace sand.	57.8					
Creek TP-BGC09-HL4-11 0.9-1.1 not classified Sandy GRAVEL, some silt. 11.8 Creek N/A N/A N/A N/A N/A Creek TP-BGC09-HL4-12 0.3-0.4 not classified SILT, some gravel, some sand. 18.5 N/A N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-12 1.0-1.1 not classified SILT, some gravel, some sand. 53.1 N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-12 1.3-1.4 not classified SiltT, some gravel, some sand. 51.4 3 30 35 33 West Haggart Creek TP-BGC09-HL4-16 0.4-0.5 not classified SiltT, some gravel, some sand. 51.4 N/A N/A N/A West Haggart Creek TP-BGC09-HL4-16 0.4-0.5 not classified SiltT, SAND and GRAVEL. 13.2 N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-16 0.9-1.0 not classified SiltT, SAND, some gravel. 13.4 N/A N/A N/A N/A <t< td=""><td>West Haggart</td><td></td><td></td><td></td><td></td><td></td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></t<>	West Haggart						N/A	N/A	N/A	N/A	
West Haggart CreekTP-BGC09-HL4-120.3-0.4not classifiedSILT, some gravel, some sand.18.5N/AN/AN/AN/AN/AWest Haggart CreekTP-BGC09-HL4-121.0-1.1not classifiedSILT, some gravel, some sand.53.1N/AN/AN/AN/AN/AWest Haggart CreekTP-BGC09-HL4-121.3-1.4not classifiedSandy GRAVEL, some silt.51.43303533West Haggart CreekTP-BGC09-HL4-160.4-0.5not classifiedSilty SAND and GRAVEL.13.2N/AN/AN/AN/AWest Haggart CreekTP-BGC09-HL4-160.9-1.0not classifiedSilty SAND and GRAVEL.13.4N/AN/AN/AN/AWest Haggart CreekTP-BGC09-HL4-160.9-1.0not classifiedSilty SAND and GRAVEL.13.4N/AN/AN/AN/AWest Haggart CreekTP-BGC09-HL4-160.9-1.0not classifiedSilty SAND, some gravel.15.63481929West Haggart CreekTP-BGC09-HL4-161.8-2.0not classifiedSilt, trace clay, trace gravel.80.4N/AN/AN/AN/AWest Haggart CreekTP-BGC09-HL4-170.3-0.5not classifiedSilt, trace clay, trace gravel.80.4N/AN/AN/AN/AWest Haggart CreekTP-BGC09-HL4-170.7-0.8not classifiedSilty SAND and GRAVEL.20.3N/AN/AN/AN/AWest Haggart Creek <td< td=""><td>Creek</td><td>TP-BGC09-HL4-11</td><td>0.9-1.1</td><td>not classified</td><td>Sandy GRAVEL, some silt.</td><td>11.8</td><td></td><td> / .</td><td></td><td></td></td<>	Creek	TP-BGC09-HL4-11	0.9-1.1	not classified	Sandy GRAVEL, some silt.	11.8		/ .			
Creek IP-BcC09-HL4-12 0.3-0.4 Not classified SILT, some gravel, some sand. 18.5 N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-12 1.0-1.1 not classified SILT, some gravel, some sand. 53.1 N/A N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-12 1.3-1.4 not classified Sandy GRAVEL, some silt. 51.4 3 30 35 33 West Haggart Creek TP-BGC09-HL4-16 0.4-0.5 not classified Silty SAND and GRAVEL. 13.2 N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-16 0.9-1.0 not classified Silty SAND and GRAVEL. 13.4 N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-16 0.9-1.0 not classified Silty SAND, some gravel. 13.4 N/A N/A N/A West Haggart Creek TP-BGC09-HL4-17 0.3-0.5 not classified Silty SAND, some gravel. 15.6 N/A N/A N/A West Haggart Creek TP-BGC09-HL4-17 0.3-0.5 not classified Silty SAND, some gravel. 80.4 N/A N/A N/A West Haggart Creek TP-BGC09-HL4-17 0.7-0.8 n	West Haggart		0004	and also alf a d		40.5	N/A	N/A	N/A	N/A	
West Haggart CreekTP-BGC09-HL4-121.0-1.1 not classifiednot classifiedSILT, some gravel, some sand.53.1N/AN/AN/AN/AWest Haggart CreekTP-BGC09-HL4-121.3-1.4not classifiedSandy GRAVEL, some silt.51.43303533West Haggart CreekTP-BGC09-HL4-160.4-0.5not classifiedSilty SAND and GRAVEL.13.2N/AN/AN/AN/AWest Haggart CreekTP-BGC09-HL4-160.9-1.0not classifiedSilty SAND and GRAVEL.13.4N/AN/AN/AN/AWest Haggart CreekTP-BGC09-HL4-161.8-2.0not classifiedSilty SAND, some gravel.13.4N/AN/AN/AN/AWest Haggart CreekTP-BGC09-HL4-161.8-2.0not classifiedSilty SAND, some gravel.15.63481929West Haggart CreekTP-BGC09-HL4-170.3-0.5not classifiedSILT, trace clay, trace gravel.80.4N/AN/AN/AN/AWest Haggart CreekTP-BGC09-HL4-170.7-0.8not classifiedSilty SAND and GRAVEL.20.3N/AN/AN/AN/AWest Haggart CreekTP-BGC09-HL4-170.7-0.8not classifiedSilty SAND and GRAVEL.20.3N/AN/AN/AN/AWest Haggart CreekTP-BGC09-HL4-170.7-0.8not classifiedSilty SAND and GRAVEL.16.9N/AN/AN/AN/A	Creek	TP-BGC09-HL4-12	0.3-0.4	not classified	SILT, some gravel, some sand.	18.5	N1/A	N1/A	N1/A	N1/A	
Creek TP-BGC09-HL4-12 1.0+1.1 Introducts sine 311, some graver, some said. 33.1 30 35 33 West Haggart Creek TP-BGC09-HL4-12 1.3-1.4 not classified Sandy GRAVEL, some silt. 51.4 3 30 35 33 West Haggart Creek TP-BGC09-HL4-16 0.4-0.5 not classified Silty SAND and GRAVEL. 13.2 N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-16 0.9-1.0 not classified Silty SAND and GRAVEL. 13.4 N/A N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-16 0.9-1.0 not classified Silty SAND, some gravel. 15.6 3 48 19 29 West Haggart Creek TP-BGC09-HL4-16 1.8-2.0 not classified Silty SAND, some gravel. 15.6 N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-17 0.3-0.5 not classified Silty SAND and GRAVEL. 80.4 N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-17 0.7-0.8 not classified Silty SAND an	Crock		1011	not classified	SILT come gravel come cand	52.1	IN/A	IN/A	IN/A	IN/A	
Creek TP-BGC09-HL4-12 1.3-1.4 not classified Sandy GRAVEL, some silt. 51.4 N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-16 0.4-0.5 not classified Silty SAND and GRAVEL. 13.2 N/A N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-16 0.9-1.0 not classified Silty SAND and GRAVEL. 13.4 N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-16 0.9-1.0 not classified Silty SAND and GRAVEL. 13.4 N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-16 1.8-2.0 not classified Silty SAND, some gravel. 15.6 3 48 19 29 West Haggart Creek TP-BGC09-HL4-17 0.3-0.5 not classified Silty SAND, some gravel. 80.4 N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-17 0.3-0.5 not classified Silty SAND and GRAVEL. 80.4 N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-17 0.7-0.8 not classified	West Hannart	1F-DGC09-11L4-12	1.0-1.1	TIOL CIASSILIEU		55.1	3	30	35	22	
West Haggart Creek TP-BGC09-HL4-16 0.4-0.5 not classified Silty SAND and GRAVEL. 13.2 N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-16 0.9-1.0 not classified Silty SAND and GRAVEL. 13.4 N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-16 0.9-1.0 not classified Silty SAND and GRAVEL. 13.4 N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-16 1.8-2.0 not classified Silty SAND, some gravel. 15.6 3 48 19 29 West Haggart Creek TP-BGC09-HL4-17 0.3-0.5 not classified Silty SAND, some gravel. 15.6 N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-17 0.3-0.5 not classified Silty SAND and GRAVEL. 80.4 N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-17 0.7-0.8 not classified Silty SAND and GRAVEL. 20.3 N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-17 0.7-0.8 not classified Silty SAND and GRAVEL. 16.9 N/A N/A N/A N/A	Creek	TP-BGC09-HL4-12	1.3-1.4	not classified	Sandy GRAVEL, some silt.	51.4	0	50	00	00	
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Creek IP-BGC09-HL4-17 0.3-0.5 Not classified SiL1, trace clay, trace gravel. 80.4 N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-17 0.7-0.8 not classified Silty SAND and GRAVEL. 20.3 N/A N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-17 0.7-0.8 not classified Silty SAND and GRAVEL. 20.3 N/A N/A N/A N/A West Haggart Creek TP-BGC09-HL4-17 0.7-0.8 not classified Silty SAND and GRAVEL. 16.9 N/A N/A N/A	West Haggart		0.0.05	not close: fied		00.4	N/A	N/A	N/A	N/A	
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West Haggart Creek TP-BGC09-HL4-17 0.7-0.8 not classified Silty SAND and GRAVEL. 16.9	Creek		0.7-0.8	not classified	Silty SAND and GRAVE	20.3	IN/A	IN/A	IN/A	IN/A	
Creek TP-BGC09-HL4-17 0.7-0.8 not classified Silty SAND and GRAVEL. 16.9	West Hannart		0.7-0.0			20.0	N/A	N/A	N/A	N/A	
	Creek	TP-BGC09-HL4-17	0.7-0.8	not classified	Silty SAND and GRAVEL.	16.9		1.1/1			

		Sample Depth				Grain Size Distribution				
Terrain Unit	Test Hole ID#	(m)	Material Genesis	Descriptive Texture	Moisture Content (% dry weight)					
						% <2µm	% <75 µm	% <4.75mm	% <75mm	
West Haggart						N/A	N/A	N/A	N/A	
Creek	TP-BGC09-HL4-18	0.3-0.4	not classified	Silty SAND and GRAVEL.	9.6					
West Haggart						N/A	N/A	N/A	N/A	
Creek	TP-BGC09-HL4-18	1.1-1.2	not classified	Silty SAND and GRAVEL.	6.1				/ .	
West Haggart						N/A	N/A	N/A	N/A	
Creek	TP-BGC09-HL4-18	1.6-1.8	not classified	Silty SAND and GRAVEL.	6.4					
West Haggart		0.0.0.4				N/A	N/A	N/A	N/A	
Creek	TP-BGC09-HL4-18	2.0-2.4	not classified	Silty SAND and GRAVEL.	8.6	N1/A	N1/A	N1/A	N1/A	
West Haggart		2540	not allocation		64.2	N/A	N/A	N/A	N/A	
	TP-BGC09-HL4-18	3.5-4.0	not classified	SILT, some clay, trace gravel, trace sand.	64.3	N1/A	N1/A	N1/A	N1/A	
West Haggart		15.04	not allocation	Sandy CLAV, some silt some fine group	12.0	N/A	IN/A	IN/A	N/A	
Veet Heggert	DH-BGC09-DG-7	15.24	not classified	Sandy CLAF, some siit, some line gravei.	13.9	N1/A	NI/A	N1/A	NI/A	
		6 10	Collunium	Silty SAND and GRAV/EL, cobbly	21.9	N/A	IN/A	IN/A	N/A	
West Haggart	DII-BGC09-DG-7	0.10	Collaviani	Silly SAND and GRAVEL, CODDIY.	21.8	ΝΙ/Λ	Ν/Λ	ΝΙ/Δ	ΝΙ/Λ	
Creek		18 29	Till	Sandy CLAY, some gravel	17.8	IN/A	IN/A	IN/A	IN/A	
West Haggart		10.25			17.0	Ν/Δ	N/A	Ν/Δ	Ν/Δ	
Creek	DH-BGC09-DG-7	12 19	not classified	Clavey GRAVEL cobbly	17 1	11/73	1 1/7			
West Haggart		12.10				N/A	N/A	N/A	N/A	
Creek	DH-BGC09-DG-7	3.05	not classified	Silty GRAVEL, some sand, some clay,	16.1					
		0.00				N/A	N/A	N/A	N/A	
				SAND and BOULDERS some silt some gravel		N/A	N/A	N/A	N/A	
Open Pit	TP-BGC09-P1	0.7-0.8	Weathered Bedrock	some cobbles.	10.5					
				SAND and BOULDERS, some silt, some gravel.		N/A	N/A	N/A	N/A	
Open Pit	TP-BGC09-P1	2.7-3.2	Weathered Bedrock	some cobbles.	5.2					
Open Pit	TP-BGC09-P2	0.3-0.4	Colluvium	SAND and GRAVEL, some silt, trace clay,	8.4	N/A	N/A	N/A	N/A	
				SAND and GRAVEL, some silt, trace clay, trace		N/A	N/A	N/A	N/A	
Open Pit	TP-BGC09-P2	1-1.1	not classified	cobbles.	6.2					
Open Pit	TP-BGC09-P3	0.6-0.7	Colluvium	Sandy GRAVEL, some silt, trace clay,	8.6	N/A	N/A	N/A	N/A	
Open Pit	TP-BGC09-P4	0.9-1.0	Colluvium	SAND, some silt, some gravel and cobbles	6.8	N/A	N/A	N/A	N/A	
		0.0 1.0	Completely Weathered		0.0	N/A	N/A	N/A	N/A	
Open Pit	TP-BGC09-P4	1.8-2	Bedrock	Sandy GRAVEL, some strong granodiorite clasts.	6.8					

3.6. Bulk Samples

Representative bulk samples were collected from 60 test pits, at depths varying from 0.2 m to 5.5 m, for future use by VGC in determining potential construction borrow materials. No laboratory testing has yet been conducted on these samples - they are currently being stored in the core shack on the Eagle Gold Project site (Photograph 1). A complete inventory of bulk samples is shown in Table 9.



Photograph 1 Storage of Bulk Samples under logging racks in the core shack.

Table 9.Bulk Samples.

Terrain Unit	Test ID#	Depth (m)	Genesis	Texture
Ann Gulch	TP-BGC09-HL1-1	2	Weathered rock	Completely weathered QUARTZITE, to gravelly SAND.
Ann Gulch	TP-BGC09-HL6-1	2.5-3.0	Weathered Bedrock	Highly to completely weathered Metasedimentary Bedrock.
Ann Gulch	TP-BGC09-HL6-2	0.2-0.6	Colluvium	Silty SAND and GRAVEL, trace clay.
Ann Gulch	TP-BGC09-HL6-3	2.0-2.5	not classified	SAND, trace gravel, trace silt.
Ann Gulch	TP-BGC09-HL6-4	4.0-4.5	Weathered Bedrock	Completely to highly weathered Metasedimentary Bedrock.
Ann Gulch	TP-BGC09-HL6-5	0.9	Completely Weathered Bedrock	Sandy GRAVEL, some silt, trace clay.
Ann Gulch	TP-BGC09-HL6-6	2.8-3.2	not classified	Gravelly SILT, some sand.
Ann Gulch	TP-BGC09-HL6-7	2.0-2.5	Colluvium	Sandy GRAVEL, some silt.
Ann Gulch	TP-BGC09-HL6-8	2.0-2.4	Colluvium	Gravelly SILT, some sand, trace clay.
Ann Gulch	TP-BGC09-HL6-9	1.5-2.0	Weathered Bedrock	Completely weathered Metasedimentary Rock.
Ann Gulch	TP-BGC09-HL6-10	0.6-1.0	not classified	Gravelly SILT, some sand.
Ann Gulch	TP-BGC09-HL6-10	2.2-2.7	Weathered Bedrock	Completely weathered Metasedimentary Rock.
Ann Gulch	TP-BGC09-HL6-11	1.5	Weathered Bedrock	Highly weathered Metasedimentary bedrock, trace sand infill.
Ann Gulch	TP-BGC09-HL6-12	2	not classified	Coarse GRAVEL, some sand.
Ann Gulch	TP-BGC09-HL6-13	2.2	Weathered Bedrock	Highly weathered Metasedimentary bedrock, sand and gravel infi
Ann Gulch	TP-BGC09-HL6-15	2	Colluvium	Gravelly SAND, trace cobbles.
Ann Gulch	TP-BGC09-HL6-16	2	Completely Weathered Bedrock	Sandy GRAVEL, trace silt.
Ann Gulch	TP-BGC09-HL6-17	2.3	Weathered Bedrock	Highly weathered Metasedimentary bedrock, gravelly sand and c
Eagle Pup	TP-BGC09-WR-4	2	Weathered Bedrock	Highly fractured metasedimentary rock.
Eagle Pup	TP-BGC09-WR-5	0.5-0.7	not classified	Silty GRAVEL, some sand.
Eagle Pup	TP-BGC09-WR-6	1	Colluvium	Gravelly SILT, some clay.
Eagle Pup	TP-BGC09-WR-6	4.0-4.5	Colluvium	Gravelly SILT, some clay.
Eagle Pup	TP-BGC09-WR-8	2	not classified	Silty SAND, some gravel.
Eagle Pup	TP-BGC09-WR-9	2.0-2.5	not classified	SAND, some gravel, trace silt.
Lower Reach Dublin Gulch	TP-BGC09-HL4-10	3.0-3.4	not classified	Silty SAND, some gravel.
Lower Reach Dublin Gulch	TP-BGC09-DG-1	2	not classified	Gravelly cobbles and boulders.
Lower Reach Dublin Gulch	TP-BGC09-DG-3	2	not classified	SAND and GRAVEL, trace silt.
Lower Reach Dublin Gulch	TP-BGC09-DG-4	1.5	Till	SILT and COBBLES, some gravel.
Olive Gulch	TP-BGC09-HL5-4	2.0-2.5	not classified	Gravelly SAND, some silt.
Olive Gulch	TP-BGC09-HL5-4	4.0-4.5	Weathered Granodiorite	Completely weathered granodiorite, SAND.
Olive Gulch	TP-BGC09-HL5-6	2.0-2.5	Weathered Granodiorite	Completely weathered granodiorite, SAND, trace silt, trace grave
Olive Gulch	TP-BGC09-HL5-6	5.0-5.5	not classified	SAND, some subrounded gravel.
Olive Gulch	TP-BGC09-HL5-7	2-2.5	Colluvium	Gravelly SAND, some silt.
Olive Gulch	TP-BGC09-HL5-8	0.2-0.5	Colluvium	Sandy SILT, trace gravel.
Olive Gulch	TP-BGC09-HL5-9	3.3-3.8	Bedrock	Fresh tabular Granodiorite Rock.
Olive Gulch	TP-BGC09-HL5-10	0.5	Colluvium	Silty GRAVEL, some sand.
Stuttle Gulch	TP-BGC09-HL4-1	1.8-1.9	not classified	SILT, some gravel, trace sand, trace clay.
Stuttle Gulch	TP-BGC09-HL4-2	1.5-2	not classified	SILT, some gravel, trace sand, trace clay.
Stuttle Gulch	TP-BGC09-HL4-3	2.0-2.5	not classified	Silty SAND, some gravel, trace clay,
Stuttle Gulch	TP-BGC09-HL4-3	4.0-5.0	not classified	CLAY, trace gravel, trace silt.
Stuttle Gulch	TP-BGC09-HL4-4	1.5	not classified	Gravelly SAND. trace silt.
Stuttle Gulch	TP-BGC09-HL4-5	2.5-3.0	Colluvium	Sandy SILT, some gravel, trace clay.
Stuttle Gulch	TP-BGC09-HI 4-6	3.0-3.5	not classified	Sandy GRAVEL, some silt.
Stuttle Gulch	TP-BGC09-HI 4-7	1.5-1.8	Colluvium	Gravelly SAND, some silt.

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Terrain Unit	Test ID#	Depth (m)	Genesis	Texture
Stuttle Gulch	TP-BGC09-HL4-8	1.5	Colluvium	Sandy SILT and GRAVEL.
Stuttle Gulch	TP-BGC09-HL4-9	3.3-3.8	Weathered Bedrock	Highly weathered Metasedimentary rock.
Stuttle Gulch	TP-BGC09-HL4-13	1.3-1.5	not classified	Gravelly SAND, some silt.
Stuttle Gulch	TP-BGC09-HL4-14	1.5	Colluvium	Gravelly SILT, some sand.
Stuttle Gulch	TP-BGC09-HL4-15	1.3	Colluvium	SILT, some sand, some gravel.
Stuttle Gulch	TP-BGC09-STU-4	1.5	not classified	Sandy SILT, some subrounded to subangular gravel.
Stuttle Gulch	TP-BGC09-STU-3	1.5	not classified	SAND and GRAVEL, some silt, trace cobble.
West Haggart Creek	TP-BGC09-HL4-11	0.5-0.8	not classified	SILT, trace clay, trace sand.
West Haggart Creek	TP-BGC09-HL4-12	1.3-1.4	not classified	Sandy GRAVEL, some silt.
West Haggart Creek	TP-BGC09-HL4-16	1.5-1.7	not classified	Silty SAND, some gravel, trace clay.
West Haggart Creek	TP-BGC09-HL4-17	1.6	not classified	Silty SAND and GRAVEL.
West Haggart Creek	TP-BGC09-HL4-18	2.0-2.4	not classified	Silty SAND and GRAVEL.
Open Pit	TP-BGC09-P1	2.7-3.2	Weathered Bedrock	SAND and BOULDERS, some silt, some gravel, some cobbles.
Open Pit	TP-BGC09-P2	1.7-2.2	Bedrock	Biotite Schist.
Open Pit	TP-BGC09-P3	1.3-1.7	Weathered Bedrock	Moderately weathered Metasedimentary bedrock, some silty sand infill.
Open Pit	TP-BGC09-P4	2-2.3	Completely Weathered Bedrock	Sandy GRAVEL, some strong granodiorite clasts.

4.0 RESULTS

4.1. Observed Overburden Soil Conditions

Overburden in the Eagle Gold project area is most commonly a thin cover of organic soils underlain by colluvium, followed by either a metasedimentary or granodiorite weathered rock profile. The overburden thickness and consistency varies spatially throughout the project area and any generalizations or conclusions drawn are naturally biased by the investigation of predetermined potential site facility locations. Ground conditions may vary considerably between test holes.

4.1.1. Organic Soils

Organic cover is widespread across the project site, and consists of predominantly peat and silt in varying proportions. The distribution of organic thickness is illustrated in Figure 11. Organic cover averaged 0.2 m thickness. Previously-disturbed areas, such as old drill pads, road construction or placer mining, had no organic cover. The thickness of organic cover was greater, up to 0.5m, in the valley bottoms and shallow slopes. All organic layers were penetrated by roots, with varying compositions of moss or needle mats.

4.1.2. Colluvium

The nature and distribution of colluvium layer(s) varied across site, ranging from 0.2 m to 6.3 m thickness, where observed. The distribution of thickness of colluvium is illustrated in Figure 12. The colluvium was generally gravelly silt or gravelly sand. The clasts comprised of metasedimentary rock or granodiorite and clasts ranged from angular to subangular/ subrounded. In areas of steeper exposed rock faces, more recent and active rockfall accounted for thicker colluvium layers.

Occasionally colluvial deposits were observed to be separated by fluvial deposits, in the test pits adjacent to gulches and streams.

The moisture content of the colluvial materials ranged between 6.8 % and 33.5 % and averaged 4.6 %.

4.1.3. Till

Till was encountered in drillholes BH-BGC09-STU-3 and BH-BGC09-DG-7 at 15.0 m and 15.6 m depths, respectively. These boreholes were drilled along the lower flanks of the hillside above Dublin Gulch, west of Stuttle Gulch, above the exposed bluffs adjacent to the placer tailings at the valley bottom. Till was also encountered at 0.1 m depth in test pit TP-BGC09-A-3, located east of the main access road beside Haggart Creek.

The till was generally a silty or sandy clay matrix with some proportion of larger clasts up to cobble size. A typical core sample of unfrozen till is shown in Photograph 2 below.

The till was observed to be hard in the two boreholes, and compact to dense in the test pit. N:\BGC\Projects\0792 Victoria Gold\002 Site Facilities Geotech\06 Report\main report\ 0792002 Eagle Gold SIR FINAL 1Mar10.docx Page 24



Photograph 2. Till core from 25 m depth at DH-BGC09-STU-3.

The south side slopes of lower Dublin Gulch have been stripped of vegetation (Photograph 3), exposing a fine grained matrix with randomly distributed gravel and cobble sized clasts. The exposed materials are weathered and cemented, so the genesis isn't certain, but these exposed banks appear to be till, with a thin veneer of glaciofluvial, glaciolacustrine and aeolian materials at the top.



Photograph 3. Exposed banks south of Dublin Gulch, west of Stuttle Gulch, looking south.

4.1.4. Weathered Rock

There are two main rock types found on site: metasediments and granodiorite. Consequently two weathering profiles were observed where in situ weathering occurred. Decomposed granodiorite was observed in the Olive Gulch zone, having been completely weathered to coarse sand with friable, relict corestones in places. Metasedimentary weathering profiles were most apparent in Ann Gulch, where in situ soils also contained easily friable pieces of remnant mica schist. Weathered rock was most often observed directly below colluvium, and above more intact rock. The observed thickness of weathered rock across the site is illustrated in Figure 13.

It should be noted that the distinction between colluvium and weathered rock was often subtle, as the two materials are similar in character. Consequently, the transition depths noted in the test hole logs are approximate.

4.1.5. Placer Tailings

The surficial materials in the lower reaches of Dublin Gulch have been reworked by placer mining operations for several decades. Large stockpiles of washed sands and gravels and fine grained tailings settling ponds are present. Photograph 4 illustrates the topography in the tailings deposits, and gives a sense of the variability of texture.

Three drillholes and two test pits were completed in the reworked Dublin Gulch placer tailings area. In general, the placer tailings are compact to dense well graded sands and gravels N:\BGC\Projects\0792 Victoria Gold\002 Site Facilities Geotech\06 Report\main report\ 0792002 Eagle Gold SIR FINAL 1Mar10.docx Page 26

with cobbles and trace boulders. Placer tailings typically comprise subrounded metasedimentary and granodiorite clasts. Drillhole DH-BGC09-DG-2 was drilled in an abandoned placer tailings settling pond where sediments comprised wet compact clayey silt overlying silty sand and gravel. Boulders were observed in gravel tailings above bedrock from 5.4 m to 12.2 m depth at DG-3.

Dynamic cone penetration tests were completed at DG-2 and DG-3, and showed that the material strength is highly variable, ranging from loose to very dense. Surface observations, combined with test hole observations, suggest that the texture and density of the placer tailings is highly variable both horizontally and with depth.



Photograph 4. Placer tailings in Dublin Gulch valley bottom.

4.2. Frozen Ground and Permafrost

Frozen ground was encountered in approximately half of the test pits, as detailed in Table 3. Frozen ground was also encountered in two of the three boreholes on the north facing slopes above the Dublin Gulch valley bottom (DH-BGC09-STU-3 and STU-4). The placer tailings in the valley bottom were not frozen at the three borehole locations. Frozen ground was also not observed at boreholes DH-BGC09-DG-7 and DH-BGC09-AG-3.

Frozen soil, when observed, was generally encountered immediately below the organic cover, although frozen organics were also encountered on north facing slopes and under a dense spruce forest canopy. Three thermistor strings were installed, as shown in Figure 14. At boreholes DH-BGC09-STU-3 and STU-4, thermistor strings were installed with multiple
temperature-measuring beads to 10 m depth. At DH-BGC09-AG-3, a single temperaturemeasuring bead was installed at 10 m depth.

The distribution of observed frozen ground from the test pit locations is illustrated in Figure 15. This figure includes observations from BGC's current work, as well as compiled observations from the Knight Piesold and Sitka work in 1995 and 1996. The distribution of frozen ground is highly variable across the site, with frozen ground being present within a few metres of other test pits that were unfrozen. Similar variability was observed within individual test pits, where part of a side wall was observed to be frozen at shallow depth, whereas the opposite wall, or a different section of the wall, was unfrozen.

The term frozen ground is used, rather than permafrost, since the observations were made in July and August, prior to the maximum extent of thaw, which is expected by September. Permafrost was confirmed with temperature measurements in 1996 at one of ten thermistors installed by Knight Piesold and Sitka (GT96-33). Their other nine thermistors showed an absence of permafrost. Two of BGC's thermistors from 2009 (STU-3 and STU-4) confirmed permafrost at those locations. In all three cases of confirmed permafrost, ground temperatures showed the permafrost to be warm, at close to 0° C.

Excess ice was noted in the frozen ground at several test pit locations. The distribution of observations of excess ice is illustrated in Figure 16.

4.3. Bedrock

Bedrock was encountered at shallow depth in many test pits. The observed depth to bedrock in test pits is illustrated in Figure 17. Bedrock was also observed in four of the seven drilled boreholes supervised by BGC.

Metasedimentary bedrock was penetrated between 7.6 m and 14.3 m depth in the three drillholes advanced through the placer tailings in the Dublin Gulch valley bottom (DH-BGC09-DG-1, DG-2, and DG-3). At drillhole DH-BGC09-DG-3, a brecciated fault gouge was present from 12.1 m to 19.0 m. Metasedimentary bedrock was also encountered at DH-BGC09-AG-3, which was advanced in the lower part of Ann Gulch, close to its confluence with Dublin Gulch.

Bedrock was not encountered at DH-BGC09-STU-3, DH-BGC09-STU-4 and DH-BGC09-DG-7, which were terminated at 31.1 m, 18.3 m and 19.8 m. These holes were drilled on the lower flanks of the hills above Dublin Gulch to the south, west of Stuttle Gulch.

Where rock was encountered, it was generally very poor quality, with RQD values typically ranging from 0 to 20. Metasedimentary bedrock ranged from extremely weak to medium strong.

4.4. Groundwater Conditions

Groundwater was observed in nine of 69 test pits, and in two of the seven boreholes supervised by BGC. In all other test pits, the permanent water table appeared to be lower N:\BGC\Projects\0792 Victoria Gold\002 Site Facilities Geotech\06 Report\main report\ 0792002 Eagle Gold SIR FINAL 1Mar10.docx Page 28

than the limits of excavation. Groundwater observations made by BGC are summarized in Table 10 below. Table 11 summarizes data supplied from Stantec's groundwater monitoring, including older wells from previous site investigation programs.

Observations of groundwater seepage are illustrated in Figure 18. Observed depth to groundwater is illustrated in Figure 19.

Table 10. Summary of Groundwater Observations

Test Pit/Borehole ID	Depth (m)	Seepage*	GW Pipe**	Comments
TP-BGC09-HL4-14	0-1.9	L	N	Excavation left open for 25 minutes, weepy walls from ice melting.
TP-BGC09-HL4-17	0-0.5	L-M	N	Seepage likely rain from showers in area, released from disturbed moss covering.
TP-BGC09-HL5-6	5.5	M-H	Y	
TP-BGC09-HL5-10	0-2.8	Н	N	Ponded water on surface, boggy area.
TP-BGC09-HL6-8	0-2.6	M-H	Ν	Ponded water on surface in day old excavator tracks.
TP-BGC09-WR-7	0-2.5	M-H	Ν	Test pit located adjacent to Eagle Pup.
TP-BGC09-WR-8	3.5	Н	Y	Inflow from Eagle Pup.
DH-BGC09-DG-1	2	M-H	Y	Groundwater table encountered at 2.0m.
DH-BGC09-DG-2	4.9	M-H	Y	Groundwater table encountered at 4.9m.
TP-BGC09-DG-1	2	Н	Ν	Seepage filled testpit then sloughed in.
TP-BGC09-DG-3	2.9	М	N	

*L=light, M=moderate, H=heavy **Slotted 2" PVC for groundwater monitoring installed

Monitoring Well ID	Date	Easting	Northing	Depth to Groundwater (m bgs)
	24-Jul-09			4.21
G196-26	27-Aug-09	462585.133	7101834.681	4.22
	24-Jul-09			1.36
1010096-8	27-Aug-09	463252.365	7101258.356	1.53
	24-Jul-09			7.16
WW96-9a/b	27-Aug-09	463074.143	7101059.862	7.61
	25-Jul-09			16.52
1010096-138/0	27-Aug-09	460176.627	7100649.791	17.85
	25-Jul-09			7.68
WW96-15a	27-Aug-09	459996.865	7100730.109	7.88
MW96-15b	25-Jul-09	459996.865	7100730.109	8.66
	25-Jul-09			3.48
1010095-152	27-Aug-09	459146.957	7100752.290	3.71
	21-Aug-09			26.10
1010090-1	27-Aug-09	463759.664	7100773.192	23.97
	25-Jul-09			18.56
1010030-10	27-Aug-09	460521.066	7099296.894	21.25
MW96-10b	24-Jul-09	462935.908	7100938.914	2.54
MW96-2	24-Jul-09	463672.639	7100852.218	10.57
MW96-3	24-Jul-09	463595.519	7100942.276	3.33
DH95-147	24-Jul-09	463443.952	7100932.907	5.00
MW96-4	24-Jul-09	463503.748	7101032.507	6.53
MW96-5	24-Jul-09	463426.376	7101100.282	3.35
DH95-144	24-Jul-09	463670.673	7101520.915	3.49
MW96-7b	24-Jul-09	463592.005	7101477.256	1.26
MW96-19	23-Aug-09	460536.011	7099318.994	27.73
MW96-17b	23-Aug-09	460487.700	7099364.185	44.70
MW96-17a	23-Aug-09	460487.700	7099364.185	dry
MW96-25	23-Aug-09	459182.590	7099369.868	dry
MW06-24	23-Aug-09	459685.139	7099296.455	dry
MW96-23	27-Aug-09	459584.496	7099074.864	9.64
MW09-DG2	27-Aug-09	458989.746	7100687.488	1.71
MW09-DG1	27-Aug-09	459318.818	7100816.909	2.19
MW09-Stu2	27-Aug-09	458953.530	7100164.159	-0.18
MW09-Stu1	27-Aug-09	459768.539	7100454.432	14.79

Table 11.Summary of Depth to Groundwater Table.

Monitoring Well ID	Date	Easting	Northing	Depth to Groundwater (m bgs)
MW09-AG2	4-Sep-09	459775.905	7101780.566	14.02
MW09-AG1	26-Aug-09	459418.958	7101751.765	13.97
MW09-OG3	3-Sep-09	461221.378	7101361.009	2.75
MW09-OG2	4-Sep-09	462216.068	7100401.481	5.50
MW09-DG4	4-Sep-09	458279.458	7100919.823	6.02
MW09-DG5	4-Sep-09	458394.885	7100416.760	14.24

4.5. Slope Instability

Explicit consideration of slope stability was not included in BGC's scope, and terrain mapping is being completed by others. However, BGC brought aerial photographs into the field to aid in planning of the work, and air photo observations during field reconnaissance suggested the possibility of a large ancient landslide on the hillside above Dublin Gulch (see Figure 20). If an old landslide exists, this would need to be considered in the planning, design and construction of mine infrastructure in the area. Loading the top, or excavating the toe, of such a landslide could potentially lead to reactivation. Additional study of this feature is recommended for any facilities alternative that it may affect.

There are numerous smaller instability features across the project area. For example, steep rock slopes in Olive Gulch are subject to rockfall. Similarly, a near vertical rock face along the west valley wall of Eagle Pup is also subject to rockfall. Other types of slope failure, including probable creep features, are evident in the other creek basins. Each should be considered in relation to planning and design once facilities locations and layouts have been finalized.

5.0 OBSERVATIONS IN SPECIFIC TERRAIN UNITS

Section 4 presented the detailed observations resulting from the field investigation. These findings have been compiled in summary form in Table 12 to provide a general overview of conditions in each terrain unit outlined in Figure 8. This Table also presents a snapshot of the more significant geotechnical issues that would be encountered in specific terrain units. These comments are intended to be very general in nature, as facility locations have not been finalized, and within each terrain unit, there is spatial heterogeneity, particularly between the steep and relatively level areas. Areas with steep slopes have been denoted where slope angles are steeper than about 20 degrees. The detailed data should be consulted to develop a more complete understanding of these issues. Issues that are common across all terrain units, such as encountering scattered permafrost, potentially including ice rich soil, are not specifically mentioned.

Terrain Unit Name	Associated Facility	General Description of Terrain	Number of Test Holes	Typical Soil Conditions	Bedrock Depth	Groundwater Conditions	Frozen Ground and Permafrost	Significant Issues
Ann Gulch	Heap Leach Option #6	Ann Gulch is a relatively short valley draining toward Dublin Gulch. It was dry during the field work, and likely only carries surface water during spring runoff or significant rainfall. Slope angles are relatively gentle, typically less than 20 degrees, with isolated steeper areas.	20 test pits 1 borehole	Organics over colluvium over weathered rock over intact bedrock.	Typically shallow, ranging from 2.8 m to 6.5 m where observed, and relatively few holes where rock was not encountered.	Test holes were all dry, except one test pit where groundwater seepage was observed at 2.6 m depth.	Less frozen ground than typically observed elsewhere in the project area. Very little excess ice where frozen ground was observed.	
Bawn Boy Gulch	Heap Leach Option #3	This unit is predominantly very gently sloping, with some steep slopes to the north, where the creek has carved a relatively deep channel.	No work done by BGC in 2009. Numerous test pits and boreholes completed by Knight Piesold and Sitka in 1995 and 1996.	Organics over colluvium over weathered rock over intact bedrock.	From Knight Piesold and Sitka reports, bedrock is relatively shallow, generally.	From Knight Piesold and Sitka reports, test pits were generally dry.	From Knight Piesold and Sitka reports, frozen ground observed randomly. No information available regarding excess ice.	
Eagle Pup	Waste Rock Dump	This drainage basin is dominated by steep slopes along both valley walls, being typically steeper along the east- facing wall. This basin may be affected by a potential existing large landslide.	9 test pits	Organics over colluvium over weathered rock over intact bedrock.	Bedrock was only encountered in 3 of 9 holes, suggesting it is relatively deep.	Test holes were all dry, except two test pits where groundwater seepage was observed at 2.5 m and 3.5 m depth.	Frozen ground observed randomly. Some observations of excess ice.	Steep slopes. Thick frozen ground. Thick colluvium. Potential large instability.
Lower Reach of Dublin Gulch	Heap Leach Option #1	This area has been completely reshaped by anthropogenic influence. The valley floor is covered by large mounds of reworked placer tailings. Relatively low, steep banks exist to the south.	5 test pits 3 boreholes	Placer tailings over bedrock.	Bedrock depth below placer tailings can be expected to vary considerably, but was observed at 7.6 to 14.3 m depth in three boreholes.	Relatively shallow groundwater is observed near streams.	Some frozen ground. No observations of excess ice in the placer tailings. Ice-rich permafrost in till and colluvium on southern valley bluffs.	Thick, variable surficial soils. Exccess ice in till and colluvium on southern valley bluffs.
Middle Reach of Dublin Gulch	Heap Leach Option #2	The middle part of the Dublin Gulch valley is relatively wide at the bottom, with very steep exposed rock faces to the north.	No work done by BGC in 2009. Option #2 was set aside from further consideration.	No data.	No data.	No data.	No data.	Steep rock slopes.
Olive Gulch	Heap Leach	The upper part of this terrain	10 test pits	Organics over colluvium	Bedrock depth tends to be		Frozen ground	Rockfall along steep

Table 12.Observations in specific terrain units.

Terrain Unit	Associated	General Description of	Number of Test Holes	Typical Soil Conditions	Bedrock Depth	Groundwater	Frozen Ground and	Significant Issues
Name	Facility	Terrain			_	Conditions	Permatrost	
	Option #5	unit consists of gently sloping		over weathered rock over	shallow, and was encountered at		observed randomly.	valley sides.
		terrain, which is bisected by a		intact bedrock.	5 of 9 test pits at depths between		Excess ice observed	Steep slopes in lower
		deep channel with steep rock			0.9 m and 4.8 m.		rarely.	part of the valley.
		is covered with a blanket of						
		boulders. The lower part of the						
		valley has steep sides.						
		This small drainage basin is	None.	No data.	No data.	No data.	No data.	Steep slopes.
Stewart Gulch	Nil	dominated by steep slopes						Unknown subsurface
		linoughout						conditions.
		The drainage basin has	15 test pits	Organics over thick	Bedrock was not encountered in	Test holes were all dry,	Frozen ground very	Thick colluvium.
		relatively gentle slopes in its	2 boreholes	colluvium over thick hard any tes	any test holes, including two boreholes to 18.3 m and 31.1 m, suggesting that it is relatively	except two test pits where groundwater	common.	Thick frozen ground
Stuttle Culeb	Heap Leach	lower half, becoming gradually		till (till present at lower			Excess ice very	with excess ice.
Stuttle Guich	Option #4	elevation. This basin may be		nanks only).	thick	at 2.8 m and 5.5 m	common.	Potential large
		affected by a potential existing			unok.	depth.		instability.
		large landslide.						
		This unit contains primarily west	7 test pits	Organics over thick	Bedrock was not encountered in	Test holes were all dry,	Frozen ground very	Thick colluvium.
		facing slopes, and is outside	1 borebole	colluvium over thick hard	any test holes, including one	except one test pit	common.	Thick frozen ground
		the Dublin Gulch drainage	1 borenoie	till (till present at lower	borehole to 19.8 m depth,	where groundwater	Excess ice verv	with excess ice.
West Haggart	Heap Leach	basin. Slopes are relatively		flanks only).	suggesting that it is relatively	seepage was observed	common.	
Creek	Option #4	gentle on the lower flanks, and increase with elevation. This			thick.	at 0.5 m depth.		open pit.
		terrain unit may be affected by						Potential large
		a potential existing large						instability.
		landslide.						

6.0 RECOMMENDATIONS FOR FURTHER STUDY

The intent of this work was to gather sufficient geotechnical data to support prefeasibility level designs for the proposed mine development. Additional subsurface data will be required at subsequent stages to support the more detailed levels of design once the facilities locations and grades have been finalized.

Some evidence emerged during the field work suggesting the potential existence of a large instability feature on the south facing slopes above Dublin Gulch in the Stuttle Gulch and Eagle Pup drainage basins. If such a feature exists, it could have a material impact on the development of facilities downslope, particularly activities that would undermine the toe of the slope, load the crest, or result in additional groundwater infiltration. Therefore, if facilities are planned in this area, further study is recommended to either rule out the interpreted instability, or to determine how to modify design and construction to avoid problems should the feature exist.

7.0 CLOSURE

We trust the above satisfies your requirements at this time. Should you have any questions or comments, please do not hesitate to contact us.

Yours sincerely,

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APEY Permit to Practice Number PP092

Reviewed by:

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FIGURES







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APPENDIX A TEST PIT LOGS

ANN GULCH

- TP-BGC09-A-1
- TP-BGC09-HL1-1
- TP-BGC09-HL1-2
- TP-BGC09-HL6-1
- TP-BGC09-HL6-2
- TP-BGC09-HL6-3
- TP-BGC09-HL6-4
- TP-BGC09-HL6-5
- TP-BGC09-HL6-6
- TP-BGC09-HL6-7
- TP-BGC09-HL6-8
- TP-BGC09-HL6-9
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- TP-BGC09-HL6-14
- TP-BGC09-HL6-15
- TP-BGC09-HL6-16
- TP-BGC09-HL6-17
| Pro | oject: | : Eag | le Gol | d, Site Fa | acilites TEST PIT # TP-BGC09-A-1 | | Drain of I | Page 1 | of 1 |
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33 | Location : Heap Leach #1 GPS Excavator : CAT 325B 7101321N Operator : Larry Paulsen | Start Date : 18 Jul 09
Finish Date: 18 Jul 09
Final Depth of Pit (m) : 2.2
Logged by : PQ
Reviewed by : PQ | | | |
| o Depth (m) | Sample Type | Sample No. | Weathering Grade | Symbol | Lithologic Description | 40
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REMOLD
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 |
| -1 - 2 3 4 5 6 7 8 9 -10 - 10 - | | | | | Root mat, forest litter. SAND (SW), Silty, fine grained, compact, damp, brown, occasional cobbles, trace gravel. [COLLUVIUM] GRAVEL (GW) Sandy, trace silt, occasional cobbles, FROZEN: Nf, Nbn. [COLLUVIUM] 1.0m - Refused on clean out bucket, changed to ripper bucket. SLT (ML) Organic, trace sand, occasional gravel and cobbles, grey, FROZEN: Nbn. [TILL:7] END OF TP @ 2.2m. REFUSAL ON FROZEN GROUND. NOTES: 1) No samples collected. 2) No seepage. 3) Hole left open, backfilled to surface later. | | | | |
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Proiect: Eagle Go	ld. Site F	acilites TEST PIT # TP-BGC09-HL1-1			Pa	ge 1 of 1	
	,	Location : Dublin Gulch		Project	: No. : 07	92-002	
Survey Method : H Co-ordinates (m): Ground Elevation (Datum : UTM NAD	landheld (458960E (<i>m</i>) 892 83	BPS Excavator : CAT 325B 7101237N Operator : Larry Paulsen	Start Date : 07 Aug 09 Finish Date: 07 Aug 09 Final Depth of Pit (m) : 6.5 Logged by : MRR Reviewed by : PQ				
8 0 1 0 2 0 1 0 2 0 3 0 4 0 5 0 1 0 2 0 3 0 4 0 5 0 6 0 7 0 8 0		End of TP @ 6.5m. REFUSAL ON QUARTZITE BEDROCK. Solution of TP @ 6.5m. REFUSAL ON QUARTZITE BEDROCK. Solution to surface.	40 <u>VANE</u> PEAK REMOLD ★ % Fi 	S 80 FIELD LAB ◆ □ Moistu 40	u - kPa 120 	160 UC/2 Pocket Pen /2 	
- 9 - 9 - 10							
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Pro	iect [.]	Ear	le Gol	d. Site F	acilites TEST PIT # TP-BGC09-HL1-2	Page 1 of 1
10	,	Lay		a, one r	Location : Dublin Gulch	Project No. : 0792-002
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						Su - kPa
Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Description	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
- 0 - 1 - 2 - 3 - 4 - 5 - 6 7 8 9 9					 PEAT (PT) Organics, roots 10cm diam, dark brown SAND and GRAVEL (SC/GC) Clayey, trace cobbles, fine to coarse, clayey, very dense, max particle size 20c angular, brown, moist, homogeneous, metasedimentary clasts, FROZEN: Vx, 1.5m to 4.0m - Hard digging. 4.5m - Partially FROZEN, trace clay, trace cobbles. 5.5m to 5.8m - Grey, laminated, silty fine sand lens, trace organics, compact. End of TP @ 6.2m. EXTENT OF EXCAVATOR REACH. NOTES: 1) Roots down to 0.50m. 2) No seepage. 3) Backfilled to surface. 	m, 1%.
R	3		GC	ENG	Client: Victoria Gold	

Pro	oject:	Eag	le Gol	d, Site F	acilites TEST PIT # TP-BGC09-HL6-1			ŀ	Page 1 of	1
					Location : Ann Gulch		Project	t No. : C	792-002	
Sur Co- Gro Dat	vey l ordir ound um :	<i>Vethenates</i> <i>Eleva</i> UTM	od : Ha s (m): 4 ation (I NAD 8	andheld (459795E (m) 1038 33	GPSExcavator : CAT 325B, 7102150NOperator : Larry Paulsen	Start Date : 28 Jul 09 Finish Date: 28 Jul 09 Final Depth of Pit (m) : 6.5 Logged by : HG Reviewed by : PQ				
				1			s	iu - kPa		
(ype	lo.	וס Grade		Lithologic Description	40 VANE F PEAK REMOLD	80 FIELD LAE	120 3 ▲ △	0 160 UC/2 Pocket Pe	en a
o Depth (m	Sample T	Sample N	Weatherin	Symbol		★ % Fir	Moist	ure Conte W% - 0 — - 60	ent 0	
-0	6	S1			ORGANICS/TOPSOIL Very thin layer of leaves, needles and debris, small spruce seedlings. GRAVELLY SAND (SW) Some silt, trace clay, well graded, loose-compact, metasedimentary clasts (up to 6cm), subangular, brown, moist, thin grey silt with a trace of clay lenses (approx 2cm thick, spaced ~30cm apart), no evident structure, weak cementation. Occasional cobble from ~1m down. [COLLUVIUM]	0				
3		S2			WEATHERED METASEDIMENTARY BEDROCK Brown and oxidized orangey-brown rock, fine grained corestones, medium strong (R3), highly-completely weathered (W4-W5), ground rock fines and fractured rock. [WEATHERED BEDROCK]	0				
5 6 7	19 19	S3		<pre>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>></pre>	END OF TP @ 6.5m. EXTENT OF EXCAVATOR REACH, BEDROCK. NOTES: 1) Roots down to 1.0m. 2) No Seenage minor sloughing no visible ground ice	0				
8 9					3) Backfilled to surface.					
B	GC		SGC		Client: Victoria Gold					

Pre	oiect:	Eaa	le Gol	d. Site F	acilites TEST PIT # TP-E	3GC09-HL6-2				Page 1 c) f 1
		9		.,	<i>Location</i> : Ann Gulch			Projec	t No. : (0792-002	<u>?</u>
Sui Co- Gro Dat	rvey l -ordii ound tum :	Vethenates Eleva	od : Ha (m): 4 ation (I NAD 8	andheld (159724E m) 1024 33	GPS Excavator : CAT 325B , 7102128N Operator : Larry Paulse	en	Start Dat Finish Da Final Dep Logged I Reviewed	e: 28 Ju ate: 28 Ju oth of Pin by: HG d by: PC	l 09 il 09 t (m) : 4	1.4	
								ç	Su - kPa		
Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Descripti	ion	40 <u>VANE</u> PEAK REMOLD ★ % F W ₅ % ×	80 FIELD LAE ◆ □ ines Moist 	12 <u>3</u> <u>4</u> <u>5</u> <u>5</u> <u>6</u> <u>6</u>	0 16 UC/2 Pocket I ent 	$\frac{2}{2} = \frac{1}{2} = \frac{1}{2}$
-0-				**************************************	ORGANICS/TOPSOIL						
	6 6	S1			 SAND and GRAVEL (SW) Trace clay, well graded, loose-compact, metasedi subangular-angular, dry, greyish-brown, no visible [COLLUVIUM] WEATHERED METASEDIMENTARY ROCK Color varies from brown to yellowish-brown and reveak-medium-strong (R2-R3), laminated, visible weathered (W4-W5), ground rock fines and platy. [WEATHERED BEDROCK] END OF TP @ 4.4m. WEATHERED METASEDINOTES: 1) Roots down to 1.2m. 2) No seepage, minor sloughing, no visible groun 3) Backfilled to surface. 	imentary clasts up to 6cm, e structure, weak cementation. eddish-brown, fine grained, folding, highly-completely , fractured fragments. IMENTARY BEDROCK. nd ice.					
B	G			ENG	INEERING INC. SCIENCES COMPANY	Client: Victoria Gold					

Pro	oject:	Eag	le Gol	d, Site F	TEST PIT # TP-BGC09-HL6-3		Proir	oct No. ·	Page 1	o f 1	
Sui Co- Gro Dat	rvey l -ordii ound tum :	Veth nates Eleva UTM	od : Ha (m): 4 ation (NAD 8	andheld (459660E m) 1010 33	GPS Excavator : CAT 325B , 7102091N Operator : Larry Paulsen	Start Date : 28 Jul 09 Finish Date: 28 Jul 09 Final Depth of Pit (m) : 6.2 Logged by : HG Reviewed by : PQ					
Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Description	VANE PEAK REMOLI ★ %	40 € <u>FIELD</u> <u>L</u> → Fines Mc 20	Su - kPa 30 1 AB □ △ 0 0 0 0 0 0 0 0 0 0 0 0 0	20 16 UC/2 Pocket tent 60 8	$\frac{Pen / 2}{ \times}$	
		S1 S2 S3 S4			ORGANICS/TOPSOIL Brown, silty topsoil, covered with moss, rootlets throughout. GRAVEL (GM) Some sand, trace clay, well graded, fine - very coarse sand, loose, subangular, subrounded and angular clasts (max 6cm), brown, moist, no visible structure. [COLLUVIUM] SANDY SILT and GRAVEL (MH/GM) Loose, subrounded/angular and angular clasts, brown, moist, no evident structure, occasional cobble. FROZEN: Nf, 5-10%. [COLLUVIUM] SAND (SW) Trace silt, well graded, loose, occasional gravel clasts (up to 6cm), sub-rounded/angular particles, brown, cool but dry, no evident structure, none-weak cementation, occasional rounded-subrounded cobbles. METASEDIMENTARY ROCK Brown with reddish zones and orange oxide staining, fine grained, firm (S2), completely weathered (W5), dry, platy fines, friable pieces of laminated rock crumble under finger pressure. Ground/broken rock fines. [WEATHERED BEDROCK] END OF TP @ 6.2m. BEDROCK. NOTES: 1) Roots down to 0.9m. 2) No seepage. No visible ground ice. 3) Backfilled to surface.						
 B	BGC ENGINEERING INC.										

Proie	ect:	Eaa	le Gol	d. Site Fa	acilites TEST PIT # TP-BGC09-HI	_6-4	Page 1 of 1
				-,	<i>Location</i> : Ann Gulch	Pro	ject No. : 0792-002
Surve Co-oi Groui Datur	ey N rdin nd I m : \	fletho ates Eleva UTM	od : Ha (m): 4 ation (NAD 8	andheld (459406E, (m) 981 83	SPSExcavator : CAT 325B7101744NOperator : Larry Paulsen	Start Date : 28 Finish Date: 2 Final Depth or Logged by : H Reviewed by :	3 Jul 09 3 Jul 09 f Pit (m) : 4.8 G PQ
							Su - kPa
						40	80 120 160
	ype	ö	ig Grade		Lithologic Description	VANE PEAK FIELD REMOLD ♦	LAB ■ UC/2 □ △ Pocket Pen /2
eptn (m)	ample T	ample N	/eatherir	ymbol		★ % Fines	//oisture Content ₩% ₩ _µ
	S	S	\$	S	ORGANICS/TOPSOII	20	40 60 80
1	63 63	S1 S2			Leaves, needles and rootlets over thin, dry silty soil. SANDY GRAVEL (GW) Trace silt, well graded, brown, dry, interlensing of grey clayey ma reddy sand (dipping downhill), metasedimentary subangular-ang 5cm), weakly cemented. [COLLUVIUM?]	aterial and loose ular clasts (up to	
2		S3			2.8m - FROZEN: Nf.	0	
4 7	m	S4			METASEDIMENTARY BEDROCK Mixture of colors (reds and brown), fine grained, completely-high	ly weathered	
5				× × × × × ×	 (W4-W5) graver and lines (crushed rock). END OF TP @ 4.8m. WEATHERED BEDROCK. NOTES: 1) Roots down to 0.7m. 2) No seepage, minor sloughing, no visible ground ice. 4) Dug uphill off old road, approximately 28 degree slope. 5) Backfilled to surface. 		
7							
3							
					I	· · ·	· · ·
		B	GC	ENG	NEERING INC.	oria Gold	

roject	: Eaq	le Gol	d, Site F	acilites TEST PIT # TP-BGC09-HL6-5		Page 1 of 1
	5		,	Location : Ann Gulch	Pro	oject No. : 0792-002
irvey o-ordi round atum :	Meth nates Elev UTM	od : Ha s (m): 4 ation (I I NAD 8	andheld (159309E 1 m) 1022 33	GPS Excavator : CAT 325B , 7101833N Operator : Larry Paulsen	Start Date : 3 Finish Date 3 Final Depth o Logged by : I Reviewed by	0 Jul 09 30 Jul 09 9 f Pit (m) : 4.0 HG : PQ
Sample Type	S3 Sample No.	Weathering Grade		ORGANICS/TOPSOIL Thin moss and lichen cover over silty soil. SILTY GRAVEL (GM) Trace sand, trace clay, well graded, loose to compact, angular, grey-brow none to weak cementation. [COLLUVIUM] SILTY GRAVEL (GM) Some sand, well graded, loose to compact, gravel (up to 6cm), occasiona (~10cm), angular to subangular, brown, dry, no structure, weak cementa [COLLUVIUM] GRAVEL (GW) Some sit, trace clay, well graded, loose to compact, gravel (up to 6cm), occasiona (~10cm), angular to subangular, brown, dry, no structure, weak cementa [COLLUVIUM] GRAVEL (GW) Some sit, trace clay, well graded, loose to compact, gravel (up to 6cm) a cobble, subangular to angular,dark grey-black, possbile structure, weak cementation, oxide staining on metased clasts. [COMPLETELY WEATHERED BEDROCK] WEATHERED METASEDIMENTRAY ROCK Brown with oxide staining, fine grained, highly weathered (W4) rock, corr gravel and crushed rock fines. [HGHLY WEATHERED BEDROCK] END OF TP @ 4.0m. WEATHERED BEDROCK. NOTES: 1 Roots down to 1.0m. 2) No seepage, major sloughing (under spoil pile), no visible ground ice. 3) Backfilled to surface.	$\begin{array}{c} 40 \\ \hline VANE \\ PEAK \\ REMOLD \\ \hline \\ & \% \\ & \neg \\ \\ 20 \\ \hline \\ & \% \\ & \sim \\ \\ 20 \\ \hline \\ & & & \\$	Su - kPa
) 						
	roject	roject: Eag	roject: Eagle Gold rovey Method : Ha p-ordinates (m): 4 ound Elevation (furm : UTM NAD 8	Poject: Eagle Gold, Site F revey Method : Handheld C pordinates (m): 459309E ound Elevation (m) 1022 turn : UTM NAD 83	opect: Eagle Gold, Site Facilities TEST PIT # TP-BGC09-HL6-5 Location : Ann Guldh rrvey Method : Handheld GPS -ordinates (m): 49300E; 7101833N ound Elevation (m) 1022 turn: UTM NAD 83 Excavator: CAT 325B Operator : Lany Paulsen 00 01 01 01 01 01 01 01 01 01 01 01 01 0	operation TEST PT# TP-BGC09-HL6-5 Location : Ann Guich Print revery Method : Handheld GPS -ordinates (m): 459309E, 7101833N cond Bovation (m) 1022 turm : UTIN NAD 83 Excevator: CAT 3289 Operator : Lary Paulsen Sart Disc: 3 Print Dispt: 3 Carged by 1 Reviewed by Image: State Disc: 3 OrGAANICS/TOPSOIL Thin mosts and lichen cover over silly soil. Image: State Disc: 3 Print Dispt: 3 Cover state Dispt: 3 Print Disp

Pre	oject:	Eag	le Gol	d, Site F	acilites TEST PIT # TP-BGC09-	HL6-7				Page 1	of 1
		Ū		,	Location : Ann Gulch			Proje	ect No.	: 0792-00)2
Sui Co Gro Dai	rvey l -ordii ound tum :	Vethenates Eleva UTM	od : Ha ; (m): 4 ation (NAD 8	andheld (459883E (m) 1072 83	BPS Excavator : CAT 325B 7102297N Operator : Larry Paulsen		Start Da Finish I Final D Loggec Review	ate: 30 Date: 30 epth of I I by: HG ed by: F	Jul 09 Jul 09 Pit (m) S PQ	: 5.4	
									Su - kP	а	
− −	 Sample Type 	Sample No.	Weathering Grade	Symbol	Lithologic Description ORGANICS/TOPSOIL Moss old tree decay and rootlets in brown, dry silt, with some	e gravel, trace sand.	VANE PEAK REMOLI ★ % ₩,% × -	40 8 FIELD L ◆ Fines Mc 20 4	30 <u>AB</u> ■ △ oisture Cc W% O 40	120 1 UC/2 Dontent 60 8	$\frac{1}{1}$
- - 1 - - - - -	*	S2			GRAVEL (GM) Some silt, trace sand well graded, brown, moist, angular to s 6cm. GRAVELLY SILT (ML) Some sand, trace clay, low plastic, firm, brown, moist, no str weakly cemented, slow dilatancy, clasts of metasedimentary angular, occasional cobble. [COLLUVIUM]	ubangular clasts up to ucture evident, weathered rock (R3),	0				
- - - - - - - - - - - - - - - - - - -		S3			Some silt, well graded, loose, angular and subangular particl moist, no evident structure. [COLLUVIUM] WEATHERED METASEDIMENTARY BEDROCK Brown, crushed rock and fines, occasional boulder, some co stratification, oxide staining, weathering grade decreases fro depth. [WEATHERED BEDROCK]	es, brown, cold and bbles, visible m W5 to W4 with	0				
					 END OF TP @ 5.4m. NEAR EXTENT OF EXCAVATOR RENOTES: 1) Roots down to 0.6m. 2) No seepage, minor sloughing, no visible ground ice. 3) Backfilled to surface. 	ACH.					
-											
– —10-											
B	GC BGC ENGINEERING INC. Client: Victoria Gold										

Pro	piect:	Ead	le Gol	d. Site F	TEST PIT # TP-BGC09-HL6-8				Page 1	of 1	
		Lug		u, ene i	Location : Ann Gulch		Proje	ct No.	: 0792-00	02	
Sur Co- Gro Dat	rvey l ordii ound tum :	Metho nates Eleva UTM	od : Ha s (m): 4 ation (I NAD 8	andheld (159200E (<i>m</i>) 920 33	GPS Excavator : CAT 325B i, 7101352N Operator : Larry Paulsen	Start Date : 30 Jul 09 Finish Date: 30 Jul 09 Final Depth of Pit (m) : 2.6 Logged by : HG Reviewed by : PQ					
	1							Su kD			
							10 8	0 - KF	120 ·	160	
			ide			VANE	FIELD L	A <u>B</u>	UC/2	1	
	e		Gra		Lithologic Description	PEAK REMOLI			Pocke	et Pen /2	
(L	e Typ	e No	ering	_		★ %	Fines	_			
pth (mple	mple	athe	oq m		W _P %	Мо	isture Cc W%	ontent	W _L %	
o De	Sa	Sa	We	Sy		×	20 4	0-0-	60	— – × 80	
0		Q1		<u><u>x 1/</u> <u>x 1</u></u>	ORGANICS/TOPSOIL						
-		31			GRAVELLY SILT (ML)						
-		~			Some sand, trace clay, grey, moist-wet, loose, rapid dilatancy, angular and subangular metasedimentary clasts with occasional subrounded cobble						
- 1		52									
_					GRAVELLY SILT (ML) Some sand, trace clay, brown, frozen: poorly bonded non-vsible ice (Nf), thin						
-					coatings near clasts, angular and subangular metased clasts, occasional						
- 2 -	5mz	S3			[COLLUVIUM]	0					
-											
-					End of Hole @2.6m. SLOUGHING AND SEEPAGE.						
- 3 -					 Root depth indistinguishable under mud. Root depth indistinguishable in sub family the superstant setting shull be depth. 						
-					earlier.						
_					 Major sloughing, visible seepage, no visible ground ice. Backfilled to surface. 						
- 4											
-											
-											
- 5											
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- 6											
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- 7											
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8											
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-10-											
R	G	יַֿן (ENG	INEEKING INC.						
		I AI		DEARTH	SCIENCES COMPANY						

Proiect: I	Eagle Gol	d. Site F	acilites TEST PIT # TP-BG	C09-HL6-9			Page 1 c	o f 1	
	-ug.0 00.	u, ene i	Location : Ann Gulch		Pr	oject No. : (0792-002	2	
Survey M Co-ordina Ground E Datum : U	ethod : H ates (m): Elevation (JTM NAD	andheld (459933E (<i>m</i>) 1042 83	GPS <i>Excavator</i> : CAT 325B , 7101886N <i>Operator</i> : Larry Paulsen		Start Date : 3 Finish Date 3 Final Depth c Logged by : 1 Reviewed by	1 Jul 09 31 Jul 09 6 f Pit (m) : 3 HG : PQ	3.8		
Image: Second construction Image: Second construction	28 19 Sample No.	<pre><</pre>	ORGANICS/TOPSOIL Moss and lichen cover over silt, trace sand, trace graves and lichen cover over silt, trace sand, trace graves and firm, brown, dry, no stucture, weak ceme weathered metased clasts (up to 6cm), interlensed w [COLLUVIUM] GRAVELLY SILT (ML) Some sand, trace clay, firm, orangey brown to brown completely weathered bedrock (crushed to gravel and platy particles. [WEATHERED BEDROCK TO RESIDUAL SOIL?] 1.2m to 1.5m - FROZEN GROUND: Nf, 5-10%. WEATHERED METASEDIMENTARY BEDROCK Reddish-brown/orangey-brown/brown rock, crushed, structure visible, shiny, platy particles rub into silt and occasional boulders near bottom (8cm to 12cm), oxid strong (R2-R3). [WEATHERED BEDROCK] END OF TP @ 3.8m. REFUSAL ON WEATHERED NOTES: 1) Roots down to 0.6m. 2) No seepage, no sloughing. 4) Backfilled to surface.	vel, brown, dry. entation, subangular, ith black organic material. , metallic sheen to materials d fines). Grey layer of thin gravel and fines, some relict clay between fingers; e staining, weak to medium BEDROCK.	40 VANE FIELD PEAK REMOLD ◇ ★ % Fines W,% × 0 0 0	Su - kPa	10 16 UC/2 Pocket	0 Pen /2 	
	1		1						
BGC	BGC ENGINEERING INC. AN APPLIED EARTH SCIENCES COMPANY								

Pr	oject:	Eag	le Gold	d, Site F	acilites TEST PIT # TP-B	GC09-HL6-10				Pag	e 1 of 1
	-	-			Location : Ann Gulch			Proj	ect No	.:0792	2-002
Su Co Gre Da	rvey l o-ordii ound tum :	Vethenates Eleva UTM	od : Ha ; (m): 4 ation (A NAD 8	andheld (159542E m) 939 33	GPS Excavator : CAT 325B , 7101644N Operator : Larry Paulse	an	Start Da Finish L Final De Logged Reviewe	te: 31 Date: 31 Epth of by: H(Ed by:	Jul 09 Jul 09 Pit (m) G PQ) : 4.8	
									Su - k	Pa	
							4	0	80	120	160
	ē		Grade		Lithologic Descriptic	on	VANE PEAK REMOLD	FIELD	<u>AB</u> .	▲ U	C/2
Ê	Typ	No.	ring				★ %	Fines			
pth (I	mple	mple	athe	nbol			W _P %	М	oisture C W%	Content	W, %
o De	Sal	Sal	We	Syl			×	0	0 40	60	- <u>-</u> -×
	¢	S1		· <u>·</u> ··································	ORGANICS/TOPSOIL Thin moss, needles, leaves and lichen covering br gravel and sand.	rown, silty, dry soil, with some	0				
	•	S2			GRAVELLY SILT. (ML) Some sand, firm - stiff, brown, odourless, moist, n cementation, weathered subangular to angular me flat, platy, particles with metallic sheen. [FILL OR COLLUVIUM] WEATHERED METASEDIMENTARY BEDROCK Brown with layers of grey and reddish brown visibl crushed to gravel sand and fines, platy shiny partic siltey/clayey material persist, completely weathered 2.0m: Nbn. [WEATHERED BEDROCK].	no evident structure, weak etasedimentary clasts up to 4cm, le, friable weathered rock cles which rub into a d bedrock (W5). FROZEN at	0				
					 END OF TP @ 4.8m. REFUSAL ON WEATHERI NOTES: 1) Roots down to 0.5m. 2) No seepage, no sloughing. 3) PVC casing installed for thermistor string. 5) Backfilled to surface. 	ED BEDROCK.					
22:002_03:GPJ BGC:GDT 3/2/7											
	G			ENG ID EARTH S	NEERING INC.	Client: Victoria Gold					

Pr	oject:	: Eag	le Gol	d, Site F	acilites TEST PIT # TP-BGC09-HL6-11	Page 1 of 1					
Su Co Gr Da	rvey l -ordii ound tum :	Methonates Eleva UTM	od : Ha s (m): 4 ation (I NAD 8	andheld (459720E (m) 976 33	Location : Ann Gulch Project No. : 0/92-0 Id GPS Excavator : CAT 325B Start Date : 06 Aug 09 !0E, 7101628N Operator : Larry Paulsen Finish Date: 06 Aug 09 76 Final Depth of Pit (m) : 2.8 Logged by : MRR Reviewed by : PQ						
o Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Description	Su - kPa 40 80 120 160 VANE FIELD LAB UC/2 PEAK \blacksquare \square \square REMOLD \diamond \square \triangle Pocket Pen /2 \bigstar % Fines \square $W_{\%}^{\%}$ \square 20 40 60 40 0					
-1					SAND (SP) Fine, silly, trace gravel, poorly graded, compact, max clast=5cm, subangular, orange brown, dry, homogeneous. [COLLUVIUM] MICA SCHIST Greyish brown, fine grained, extremely weak, highly weathered, disintegrated, some sand infill, joint spacing <1cm, 0.9m - Blocky, orangish brown. METASEDIMENT Orangish grey, medium grained, very weak, highly weathered, blocky, joint spacing 1-5cm, trace sand infill. 1.8m - Moderately weathered, blocky, three, joint sets, joint spacing 1-10cm. End of Test Pit @2.8m. REFUSAL ON BEDROCK. NOTES: 1) Roots down to 0.65m. 2) No seepage, no visible ground ice. 3) Backfilled to surface.						
B	G		SGC	ENG ED EARTH S	INEERING INC. Client: Victoria Gold SCIENCES COMPANY Client: Victoria Gold						



Pro	oject:	Eag	le Gol	d, Site F	acilites TEST PIT # TP-BGC09-HL6-13				Page 1 c	o f 1	
		J			Location : Ann Gulch		Proje	ct No.	: 0792-002	2	
Sur Co- Gro Dat	vey l ordin ound tum :	Nethonates Eleva UTM	od : Ha s (m): 4 ation (I NAD S	andheld (459228E (m) 959 83	GPS Excavator : CAT 325B , 7101509N Operator : Larry Paulsen	Start Date : 07 Aug 09 Finish Date: 07 Aug 09 Final Depth of Pit (m) : 2.4 Logged by : MRR Reviewed by : PQ					
								Su - kPa	3		
Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Description	VANE PEAK REMOLI ★ %	40 8 <u>FIELD</u> L → 1 D → 1 Fines Mo	0 <u>AB</u> ▲ □ △ isture Co W% 0	120 16 UC/2 Pocket	0 Pen /2	
-0-				· · · · · · · · · · · · · · · · · · ·	ORGANICS		20 4	0	60 80)	
- 1					Thin moss cover, dark brown, rootlets. GRAVEL (GW) Fine to coarse, some silt, trace cobbles, compact, max particle size 20cm, subangular, orangish-brown, dry, homogeneous, from 1.0m to 1.1m fine silty sand lens, some gravel, moist.						
- 2 3 4 5 6 7					SAND and GRAVEL (SW/GW) Fine to medium , silty, dense, max particle size = 3cm, subangular. [WEATHERED MICA SCHIST] METASEDIMENTARY BEDROCK Orangish-grey, medium grained, highly weathered, disintegrated to blocky, very weak, sandy gravel infill. END OF TP @ 2.4m. REFUSAL ON BEDROCK. NOTES: 1) Rootlets down to 0.65m. 2) No seepage, no visible ground ice. 3) Backfilled to surface.						
8 9											
B	GC		SGC		Client: Victoria Gold						

Proj	iect:	Eag	le Gol	d, Site F	acilites TEST PIT # TP-BG	GC09-HL6-14	Dr	oioot N		e 1 of 1
Surv Co-o Grou Datu	vey N ordin und I um : I	Method : Handheld GPS Excavator : CAT 325B Start Date : 07 Aug 09 inates (m): 459299E, 7101197N Operator : Larry Paulsen Finish Date: 07 Aug 09 # Elevation (m) 870 Final Depth of Pit (m) : 6.2 : UTM NAD 83 Logged by : MRR Reviewed by : PQ								
Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Description	1	$ \begin{array}{c} 40 \\ \hline VANE \\ PEAK \\ REMOLD \\ \star \% \\ \hline W_{s\%} \\ \times \\ 20 \end{array} $	Su - 80 <u>1</u> <u>0</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u>	kPa 120 ▲ UC △ Pc Content % 	$\frac{160}{1}$ C/2 c/cket Pen /2 $-\frac{W_{c}\%}{80} - \frac{W}{x}$
-0 - 1 - 2					ORGANICS Peat, dark brown, rootlets. SAND and GRAVEL (SM/GM) Fine to coarse, some silt, trace clay, trace cobble, v 0.25m, subrounded to subangular, brown, moist, m clasts, homogeneous. [COLLUVIUM]	ery dense, max particle size etasedimentary and quartzite				
- 3 - 4					SAND (SM) Silty, fine to medium grained, some gravel, dense, r subrounded to angular, brown, moist, homogeneou [COLLUVIUM]	nax particle size 10cm, s, trace wood fragments.				
7					BOULDERS Some cobbles, some sand, max particle diameter 0 orangish-grey, dry, [old buried stream channel?]. END OF TP @ 6.20m. REFUSAL ON BEDROCK. NOTES: 1) No seepage, no visible ground ice. 2) Backfilled to surface.	.40m, subrounded,				
9										
BC	GC				NEERING INC. Sciences company	Client: Victoria Gold				

Pr	oject:	Eag	le Gol	d, Site F	acilites TEST PIT # TP-BGC09-HL6-15	Page 1 of 1		
Su Co Gre Da	rvey l -ordii ound tum :	Location : Ann Gulch Project No. : 0/92-0 y Method : Handheld GPS Excavator : CAT 325B Start Date : 06 Aug 09 dinates (m): 459685E, 7101790N Operator : Larry Paulsen Finish Date: 06 Aug 09 rd Elevation (m) 979 Final Depth of Pit (m) : 5.3 n: UTM NAD 83 Logged by : MRR						
$\begin{array}{c} (m) \\ (m) \\$	Sample Type	Sample No.	Weathering Grade	<pre>< < <</pre>	EAT (Pt) and ORGANICS SAND and GRAVEL (SM/GM) Fine to coarse, silty, dense, max clast 5cm, subrounded to angular, orangi brown, moist, homogeneous, trace wood fragments. FROZEN: Vx, 1-5%. [COLLUVIUM] SAND (SW) Gravelly, fine to coarse, trace cobbles, well graded, dense, subrounded to grey, moist, stratified colluvium. [COLLUVIUM] BEDROCK Mica Schist, grey, fine grained, foliated, extremely weak, extremely weathe disintegrated, gravel to cobble angular fragments, easily ripped. End of TP @ 5.3m. EXTENT OF EXCAVATOR REACH. NOTES: 1) No seepage. 2) Backfilled to surface.	Su - KPa Su - KPa 40 80 120 160 VANE FIELD LAB UC/2 REMOLD Image: Content W% Image: Content W% Image: Content W% Image: Content W% Image: Content W% Image: Content W% Image: Content W% Image: Content W% Image: Content W% Image: Content W% Image: Content W% Image: Content W% Image: Content W% Image: Content W% Image: Content W% Image: Content W% Image: Content W% Image: Content W% Image: Content W% Image: Content Image: Content Image: Content		
B	G		SGC	ENG ED EARTH S	INEERING INC. Client: Victoria Gold			

Pre	oject:	: Eag	le Gol	d, Site F	acilites TEST PIT # TP-BGC09-HL6-16	D Page 1 of 1
Sui Co Gro Dat	rvey l -ordii ound tum :	Methonates Eleva UTM	od : Ha ; (m): 4 ation (NAD 8	andheld (459584E (m) 999 33	Location : Ann Gulch SPS Excavator : CAT 325B , 7012014N Operator : Larry Paulsen	Project No. : 0792-002 Start Date : 06 Aug 09 Finish Date: 06 Aug 09 Final Depth of Pit (m) : 5.3 Logged by : MRR Reviewed by : PQ
- Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Description	Su - kPa 40 80 120 160 VANE FIELD LAB UC/2 PEAK \blacksquare A DC/2 REMOLD<
- 1 $-$ 2 $-$ 2 $-$ 3					Organics, moss, wigs rumm in diameter, dark brown. SAND and GRAVEL (SM/GM) Fine to coarse, some silt, compact, max particle size 10cm, subrounde angular, orangish brown, trace rootlets to 0.7M. [COMPLETEY WEAT BEDROCK] 2.5m - Cobbles and gravel, some sand, highly weathered metasedime 3.3m to 4.5m - Loose, hole sloughing. METASEDIMENTARY Orangish grey, medium grained, very weak, highly weathered, blocky, spacing <5cm.	ed to HERED
В	G			ENG ED EARTH S	Client: Victoria G	old

Pro	ject:	Eag	le Gol	d, Site F	acilites TEST PIT # TP-BGC09-HL6-17	Page 1 of 1					
Sur Co- Gro Dati	vey I ordin und um :	Metho nates Eleva UTM	od : Ha (m): 4 ation (NAD 8	andheld (459463E (m) 984 33	Location : Ann Gulch GPS Excavator : CAT 325B , 7101825N Operator : Larry Paulsen	Start Date : 06 Aug 09 Finish Date: 06 Aug 09 Final Depth of Pit (m) : 3.3 Logged by : MRR Reviewed by : PQ					
5 2 1 0 Depth (m)	Sample Type	Sample No.	Weathering Grade	<pre> </pre> </th <th>PEAT (Pt) Organics, sandy, dark brown. SAND and GRAVEL (SW/GW) Fine to coarse, some cobbles, trace silt, loose, max particle size 10cm, subrounded to angular, orangish brown, dry, homogeneous, metasedimen clasts. [COLLUVIUM] BEDROCK Metasedimentary, orangish grey, medium grained, very weak, highly weath gravelly sand and cobbles, joint spacing mm to cm, loose to dense. END OF TP @ 3.3m REFLISAL ON BEDROCK</th> <th>Su - kPa 40 80 120 160 VANE FIELD LAB UC/2 PEAK ■ A Pocket Pen /2 ★ % Fines ■ W₂% Moisture Content W₂% 0 0 20 40 60 80 120 160 Hered, ■ ■</th>	PEAT (Pt) Organics, sandy, dark brown. SAND and GRAVEL (SW/GW) Fine to coarse, some cobbles, trace silt, loose, max particle size 10cm, subrounded to angular, orangish brown, dry, homogeneous, metasedimen clasts. [COLLUVIUM] BEDROCK Metasedimentary, orangish grey, medium grained, very weak, highly weath gravelly sand and cobbles, joint spacing mm to cm, loose to dense. END OF TP @ 3.3m REFLISAL ON BEDROCK	Su - kPa 40 80 120 160 VANE FIELD LAB UC/2 PEAK ■ A Pocket Pen /2 ★ % Fines ■ W ₂ % Moisture Content W ₂ % 0 0 20 40 60 80 120 160 Hered, ■ ■					
4 5 6 7 8 9					NOTES: 1) Roots down to 1.1m. 2) No seepage, no visible ground ice. 3) Backfilled to surface.						
B	GC			ENG ED EARTH S	NEERING INC. Client: Victoria Gold SCIENCES COMPANY Client: Victoria Gold						

EAGLE PUP

- TP-BGC09-WR-1
- TP-BGC09-WR-2
- TP-BGC09-WR-3
- TP-BGC09-WR-4
- TP-BGC09-WR-5
- TP-BGC09-WR-6
- TP-BGC09-WR-7
- TP-BGC09-WR-8
- TP-BGC09-WR-9

Pr	niect	· Fag	le Gol	d Site F	acilities TEST PIT # TP-BGC09-WR-1					Page 1	of 1
	ojeci.	. Lay		u, one r	Location : Eagle Pup		Project No. : 0792-002				
Su Co Gr Da	rvey l ordii ound tum :	vey Method : Handheld GPSHandheld GPS Excavator : CAT 325B Start Date : 21 Jul 09 ordinates (m): 460086E, 7100715N Operator : Larry Paulsen Finish Date: 21 Jul 09 und Elevation (m) 971 Final Depth of Pit (m) : 6.0 um : UTM NAD 83 Logged by : HG Reviewed by : PQ							: 6.0		
(iii)	Sample Type	SS S3 Sample No.	Weathering Grade		CRGANICS/TOPSOIL Fine, dark brown-black silt, moss and rootlets. SILTY GRAVEL (GM) Some sand, trace clay, particles vary from fine to coarse, cobbles up to 20cr loose to compact, subangular metased gravel and weathered rock fragments reddish brown, moist, homogeneous, weak-moderate cementation. [COLLUVIUM] GRAVEL (GM) Some silt and sand, well graded, loose, gravel up to 5cm, subangular and subrounded particles, greyish-brown, moist, none to weak cementation. [COLLUVIUM] SAND (SW) Some gravel, trace silt, well graded, loose, subangular and subrounded partimetased flakes, brown red and grey particles, moist, weak cementation. [COLLUVIUM?] END OF TP @ 6.0m. EXTENT OF EXCAVATOR REACH. NOTES: 1 Roots down to 0.3m. 2) No seepage, no visible ground ice. 3) Backfilled to surface.	 п,		0 8 FIELD L∕ ◆ □ Fines Moi 0 44	Su - kP) AB AB Sture Co 	a 120 16 VUC/2 Pocket ontent 60 8	50 Pen /2
- - 10											
B	G				NEERING INC. Client: Victoria Gold SCIENCES COMPANY						



Pro	oject:	: Eag	le Gol	d, Site F	TEST PIT # TP-BGC09-WR-3				Page 1 of 1	1
Sui Co- Gro Dat	rvey l -ordii ound tum :	Methonates Eleva UTM	od : Ha ; (m): 4 ation (NAD ;	andheld (460472E (m) 1088 83	Location : Eagle Pup area GPS Excavator : CAT 325B A, 7100948N Operator : Larry Paulsen	Start D Finish Final D Logged Review	Proje ate:21 J Date:21 J epth of P I by:HG ed by:P	<i>ct No.</i> : (ul 09 Jul 09 J it (m) : (Q	5.8	
Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Description	VANE PEAK REMOLI * %	40 8 <u>FIELD</u> <u>L</u> / → I Fines Moi 20 4	Su - kPa 0 12 AB ▲ □ △ sture Cont W% 0 — 0 6	20 160 UC/2 Pocket Per ent 	1 /2 W_%
		S1			SAND (SM) Sitly, some cobbles and boulders, grey-brown. [FILL] SANDY GRAVEL (GM) Some sitl, trace boulders, cool, moist, compact, no structure, angular gravel, grey brown. [COLLUVIUM] WEATHERED BEDROCK Highly fractured metasedimentary rock, visible relict structure, trace fines, loose - easy digging. END OF TP @ 5.8m. REFUSAL ON WEATHERED BEDROCK. NOTES: 1) Roots down to 0.3m. 2) No seepage, no visible ground ice. 3) Backfilled to surface.					
B	G				INEERING INC. SCIENCES COMPANY					

Pr	oiect:	Eaa	le Golo	d. Site F	acilites TEST PIT # TP-BGC09-WR-4	Page 1 of 1
	.,			.,	<i>Location</i> : Eagle Pup area	Project No. : 0792-002
Su Co Gre Da	rvey l -ordii ound tum :	Vethonates Eleva UTM	od : Ha : (m): 4 ation (I NAD 8	andheld (160387E m) 1068 33	GPSExcavator : CAT 325B, 7100955NOperator : Larry Paulsen	Start Date : 22 Jul 09 Finish Date: 22 Jul 09 Final Depth of Pit (m) : 3.0 Logged by : HG Reviewed by : PQ
o Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Description	Su - kPa 40 80 120 160 VANE FIELD LAB \land UC/2 PEAK \blacklozenge \blacksquare \land Pocket Pen /2 \bigstar % Fines \land Noisture Content $W_{2\%}$ $W_{2\%}$ \bigcirc \bigcirc \bigcirc \bigcirc 20 40 60 80
		S1 S2			Moss, rootlets, fine soil. GRAVELLY SILT (ML) Some cobbles, non plastic, soft, moist, no visible structure, angular gravel weak cementation, slow dilatancy. [COLLUVIUM] GRAVELLY SAND (SW) Fine, some cobbles, trace yellowish mottling in sandy brown material. [COLLUVIUM] METASEDIMENTARY ROCK Highly fractured, dippling down into pit, greyish blue with some oxide stain [WEATHERED BEDROCK]. END OF TP @ 3.0m. REFUSAL ON BEDROCK. NOTES: 1) Roots down to 0.4m. 2) Note that at 0.4m a rounded granodiorite cobble (10cm) was found in t gravely sit material (fluvial origin?). 3) No seepage or visible ground ice. 4) Backfilled to surface.	none to O
B	GC			ENG ID EARTH S	INEERING INC. Client: Victoria Gold	

Pro	oject:	Eag	le Gol	d, Site F	acilites TEST PIT # TP-BGC	09-WR-5				Page 1 o	o f 1
Sur Co- Grc Dat	rvey l ordii ound tum :	Vetho nates Eleva UTM	od : Ha : (m): 4 ation (NAD 8	andheld (460212E (m) 1032 33	Location : Eagle Pup areaGPSExcavator : CAT 325B7100988NOperator : Larry Paulsen		Start Date : 22 Jul 09 Finish Date: 22 Jul 09 Final Depth of Pit (m) : 4.7 Logged by : HG Reviewed by : PQ				
L C Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	CRGANICS/TOPSOIL Rootlets and organic soil. SILTY GRAVEL (GM) Some sand, angular, moist, some structure becoming ev [COLLUVIUM transitioning into BEDROCK?]	ident at 07.m, compact.	4 VANE PEAK REMOLE ★ % W ₅ % × -2	0 81 FIELD L4 → [] Fines Moi 0 44	Su - kPa	20 16 UC/2 Pocket	0 Pen /2
-2 -3 -3 -4 -5 -6 -7 -6 -7 -8 -7 -8 -9 -10					 METASEDIMENTARY ROCK Some silt, coarse and fine sand, friable, visible relict bed weathered, some orange oxide staining visible, cobbles or strong to strong (R3-R4) bedrock, strengthening with dependence of the strong to strong (R3-R4) bedrock, strengthening with dependence of the strong to strong (R3-R4) bedrock, strengthening with dependence of the strong to strong (R3-R4) bedrock, strengthening with dependence of the strong to strong (R3-R4) bedrock, strengthening with dependence of the strong to strong (R3-R4) bedrock, strengthening with dependence of the strong to strong (R3-R4) bedrock, strengthening with dependence of the strong to strong (R3-R4) bedrock, strengthening with dependence of the strong to strong to strong (R3-R4) bedrock, strengthening with dependence of the strong to strong to strong (R3-R4) bedrock, strengthening with dependence of the strong to strong to strong the strong to strong the strong to strong (R3-R4) bedrock, strengthening with dependence of the strong to strong to strong the strong to strong the strong to strong to strong the strong to strong the strong to strong to strong to strong to strong to strong to strong the strong to st	ding, stiff, highly ip to 15cm, medium oth.					
B	G				NEERING INC. Clie	ent: Victoria Gold					

Pro	oiect:	: Eaa	le Gol	d. Site F	acilites TEST PIT # TP-	BGC09-WR-6			F	Page 1 of	f 1	
	,			-,	<i>Location</i> : Eagle Pup		Project No. : 0792-002					
Sur Co- Gro Dat	vey l ordii ound tum :	Metho nates Eleva UTM	od:Ha s (m): 4 ation (I NAD a	andheld (460060E (m) 958 83	GPSHandheld GPS <i>Excavator</i> : CAT 325E , 7100837N <i>Operator</i> : Larry Pauls	3 sen	Start Date : 22 Jul 09 Finish Date: 22 Jul 09 Final Depth of Pit (m) : 6.5 Logged by : HG Reviewed by : PQ					
								<u></u>	kPa			
							40	80	- KF a	160		
			de				VANE FIE			UC/2		
	e		Gra		Lithologic Descrip	tion	PEAK	▶ ■ > □		Pocket P	'en /2	
Ê.	Typ	No.	ering	_			★ % Fines	;			-	
pth (mple	mple	eathe	oqu			W _p %	Moistu	re Conte	nt	W∟%	
De	Sa	Sa	эM	Sy			× — — - 20	40	0	80	- ×	
-0-					ORGANICS/TOPSOIL							
					GRAVEL and SILTY SAND (GW/SM)							
_ 1		S1			Trace cobbles (up to 15cm), angular gravel, coar brown, dry, no evident structure or cementation.	se sand, very loose to loose,	0					
- 1	1975 1975	S2			SANDY SILT (ML)							
					dilatancy, moist, subangular to angular gravel. Fl	ROZEN from 1.5m: Nbe.						
- 2					[COLLUVIUM]							
2												
- 3												
J												
- 1		63										
-		00										
- 5												
5												
- 6												
Ŭ												
				*. 1. * . * . 1	END OF TP @ 6.5m. EXTENT OF EXCAVATO	R REACH.	_					
7					NOTES: 1) Roots down to 0.5m							
					2) No seepage.3) Roskfilled to surface.							
					5) Dacknied to surface.							
8												
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9												
-												
-10-												
-		1			1							
						Oliverta Minteria Octob						
R	G	<u>ן</u> ב	<u>sec</u>	ENG		Chent: Victoria Gold						
		I AI	N APPLI	EDEARTH	SUEINUES CUMPANY							

Pr	oiect	Ead	le Gol	d. Site F	acilites TEST PIT # TP-BGC09-WR-7	Page 1 of 1			
	.,	9		.,	Location : Eagle Pup	Project No. : 0792-002			
Su Co Gr Da	rvey l ordii ound tum :	Method : Handheld GPS Excavator : CAT 325B Start Date : 22 Jul 09 inates (m): 459893E, 7100896N Operator : Larry Paulsen Finish Date: 22 Jul 09 ! Elevation (m) 930 Final Depth of Pit (m) : 2.5 : UTM NAD 83 Logged by : HG Reviewed by : PQ							
						Su - kPa			
Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Description	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
		- S1			ORGANICS/TOPSOIL Moss cover, rootlets, wood in black silty soil. SILTY GRAVEL (GM) Trace sand, well graded, granodiorite and metasedimentary boulders (25cm), angular-subangular particles, grey to brown, no apparent structure. FROZEN NDE. [COLLUVIUM] END OF TP @ 2.5m. SEEPAGE & SLOUGHING. NOTES: 1) Roots down to 0.4m. 2) Eagle Pup creek approximately 8m north of testpit. 3) Backfilled to surface.				
B	G				NEERING INC. Client: Victoria Gold				

Pro	oject	: Eag	le Gol	d, Site F	acilites TEST PIT # TP-E	3GC09-WR-8		Ducies	 	Page 1 of	F1
Sur Co- Gro Dat	rvey l -ordii ound tum :	Location Eagle Fup alea Fright Res. 6782 /ey Method : Handheld GPS Excavator : CAT 325B Start Date : 23 Jul 09 ordinates (m): 460165E, 7100363N Operator : Larry Paulsen Finish Date: 23 Jul 09 und Elevation (m) 1031 Final Depth of Pit (m) : 3.5 um : UTM NAD 83 Logged by : HG Reviewed by : PQ						.5			
		Ace at the No. No. No. No. No. No. No. No.		Su - kPa			0 160 UC/2				
Depth (m)	Sample Type	Sample No.	Weathering G	Symbol	Lithologic Description	חנ	REMOLD ★ % W _p % ×	Fines Mois 	□ △ sture Conte W% 0 — - 60	Pocket P	en /2
0 - - - - - 1	- 8	S1			ORGANICS Moss and grasses covering black silt, rootlets thro SAND (SM) Some silt and gravel, well graded, occasional cobb to compact, some orange oxide staining, moist, no from 0.4-0.5m: Vs, 5-10%. [COLLUVIUM]	ughout. ble/boulder (up to 25cm), loose b apparent structure. FROZEN	0				
- 2 - 2 - 3 - 3 - 4 - 5 - 5 - 5 - 5 - 5 - 7 - 7		S2			End of Test Pit @ 3.5m. SEEPAGE & SLOUGHIN NOTES: 1) Roots down to 0.5m. 2) Seepage and sloughing at 3.5m. 3) PVC casing installed for thermistor string. 4) Slotted PVC installed for ground water monitor 7) Backfilled to surface.	NG.	0				
- - - - - - - - - - - - - - - - - - -											
B	G			ENG ED EARTH S	NEERING INC.	Client: Victoria Gold					

Pr	oject:	Eag	le Gol	d, Site F	acilites TEST PIT # TP-BGC09-WR-9			Pag	ye 1 of 1		
Su Co Gru Da	rvey l -ordii ound tum :	Wethonates Eleva UTM	od : Ha ; (m): 4 ation (NAD 8	andheld (460175E (m) 1003 33	Location : Eagle Pup GPS Excavator : CAT 325B , 7100585N Operator : Larry Paulsen	Start Da Finish I Final D Logged Review	Start Date : 23 Jul 09 Finish Date: 23 Jul 09 Final Depth of Pit (m) : 6.5 Logged by : HG Reviewed by : PQ				
• Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Description	VANE PEAK REMOLI ★ % ₩ ₆ % × -	S 40 80 FIELD LAE ◆ ■ Fines Moist 20 40	120 120 △ F ure Content W% - 0	160 JC/2 Pocket Pen /2		
$- 0^{-1}$		S1			ORGANICS/TOPSOIL Thick moss (10cm) covering, rootlets, dark brown-black soil. SILTY SAND (SM) Fine to coarse, some gravel, compact, brown w/ layers of reddy brown & dark g organics, moist, weak to moderate cementation. FROZEN from 1.1m to 1.4m: Nbe. [COLLUVIUM] SAND (SW) Fine to coarse, some gravel, trace silt, well graded, loose to compact, occasion: cobbles and boulders up to 25cm, subangular to angular gravel, orangey-brown moist, homogeneous, weak cementation. [COLLUVIUM?] SILTY SAND (SM) Trace boulders and cobbles, both subangular-angular, loose, grey, dry, no evide structure, weak cementation. [COLLUVIUM?] SILTY SAND (SM) Trace boulders and cobbles, both subangular-angular, loose, grey, dry, no evide structure, weak cementation. [COLUVIUM?] SILTY SAND (SM) Trace boulders and cobbles, both subangular-angular, loose, grey, dry, no evide structure, weak cementation. [COLUVIUM?] END OF TP @ 6.5m. EXTENT OF EXCAVATOR REACH. NOTES: 1) Roots down to 0.9m. 2) No seepage. 3) Backfilled to surface.	rey of the second secon					
B	G				INEERING INC. SCIENCES COMPANY						

LOWER REACH DUBLIN GULCH

TP-BGC09-A-2 TP-BGC09-DG-1 TP-BGC09-DG-3 TP-BGC09-DG-4 TP-BGC09-HL4-10

Pro	oject	: Eag	le Gol	d, Site F	acilites TEST PIT # TP-E	3GC09-A-2		Page 1 of 1		
Sur Co- Gro Dat	Survey Method : Handheld GPS Co-ordinates (m): 458708E, 7100789N Ground Elevation (m) 823 Datum : UTM NAD 83				Location : Heap Leach # GPS Excavator : CAT 325B , 7100789N Operator : Larry Paulsen	1	Project No. : 0792-00 Start Date : 18 Jul 09 Finish Date: 18 Jul 09 Final Depth of Pit (m) : 4.5 Logged by : PQ Reviewed by : PQ			
O Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Description SAND AND GRAVEL (SM/GM) Silty, compact, light brown, damp.		$ \begin{array}{c c} 40 & 80 \\ \hline VANE & FIELD & LA \\ PEAK & \bullet & \\ REMOLD & \diamond & \\ \hline \star \% & Fines \\ \hline W_{\%}\% & Mois \\ \times & 20 & 40 \\ \hline \end{array} $	Su - kPa 120 160 B UC/2 Δ Pocket Pen /2 Sture Content W% 0 - 0		
					GRAVEL (GW) Sandy, cobbly, compact, reddish, damp. [COLLUVIUM] SILT (ML) Sandy, light brown, FROZEN: Nbn. [TILL] SAND and GRAVEL (SW/GW) Trace-some silt and cobbles, well graded, compact, [TILL] END OF TP @ 4.5m. LIMIT OF EXCAVATOR REA NOTES: 1) No seepage. 2) Backfilled to surface.	brown, dry to damp.				
B	G				NEERING INC. SCIENCES COMPANY	Client: Victoria Gold				

Pr	oject:	: Eag	le Gol	d, Site F	acilites TEST PIT # TP-E	BGC09-DG-1	F	Project No ·	Page 1 o	o f 1	
Su Co Gri Da	rvey l -ordii ound tum :	Methonates Eleva UTM	od : Ha s (m): 4 ation (I NAD 8	andheld (459317E (m) 848 83	GPS Excavator : CAT 325B , 7101005N Operator : Larry Paulse	en	Start Date : 10 Aug 09 Finish Date: 10 Aug 09 Final Depth of Pit (m) : 2.5 Logged by : MRR Reviewed by : PQ				
0 Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	SAND and GRAVEL (SM/GM) Silty, well graded, very dense, max clast 20cm, su moist, homogeneous. SAND and GRAVEL (SM/GM) Some silt, some cobbles, trace boulders, well grad subrounded to subangular, orangish-brown, moist [Possibly Fluvial] 0.70m - Trace Seepage. 2.0m - Becomes gravelly, with cobbles and boulde END OF TP @ 2.5m. SLOUGHING. NOTES: 1) At 2.5m, the pit filled with water and caved in to 2) No visible ground ice. 3) Backfilled to surface.	on Ibrounded to subangular, brown, ded, dense, max clast 0.40m, , homogeneous. ers. Seepage. o 2.0m	40 VANE FIE PEAK ◆ REMOLD ◇ ★ % Fines W ₂ % × 20	Su - kPa 80 1 10 LAB Moisture Con 40 6	20 160 UC/2 Pocket F	0 Pen /2 	
B	G				NEERING INC.	Client: Victoria Gold					

Projec	ct: Ea	gle Go	ld, Site F	acilites TEST PIT # TP-B Location : Dublin Gulch	GC09-DG-3		Project	Pag No. : 0792	e 1 of 1 2-002	
Survey Co-ora Groune Datum	/ Met dinate d Ele : UT	hod : ⊢ es (m): evation M NAD	landheld (458987E <i>(m)</i> 837 83	GPS Excavator : CAT 325B 7100938N Operator : Larry Paulsen		Start Date : 08 Aug 09 Finish Date: 08 Aug 09 Final Depth of Pit (m) : 5.0 Logged by : MRR Reviewed by : PQ				
Deptn (m) Sample Tvpe	Sample No.	Weathering Grade	Symbol	Lithologic Description	1	44 VANE PEAK REMOLD ★ % F W ₆ % × -2	SL 0 80 FIELD LAB ♦ □ Cines Moistu	120 ▲ UC △ PC re Content W% ○ 60	$\frac{160}{C/2}$	
2	— S ²	I		SAND and GRAVEL (SW/GW) Fine to coarse, trace silt, loose, max clast 5cm, ang homogeneous. [PLACER TAILINGS] CLAYEY SILT (ML) Low plastic, grey, moist, low dry strength, rapid dila [PLACER TAILINGS, Settling Pond] SAND and GRAVEL (SM/GM) Fine to coarse, trace silt, compact, max clast 5cm, so orangish brown, moist, homogeneous.	ular, brown, moist, tancy. subrounded to angular,]	0			
3 —	— s2	2		2.9m - Seepage. SILTY SAND and GRAVEL (SW/GW) Fine to coarse, trace clay, compact, max clast 10cn wet, homogeneous. 3.3m to 3.5m - Clayey silt. 3.5m - Subrounded boulders.	n, subrounded to angular, tan,] 0				
6				 END OF TP @ 5.0m. REFUSAL ON BOULDERS. NOTES: 1) Rootlets to 0.6m. 2) Seepage at 2.9m, no visible ground ice. 3) Backfilled to surface. 		-				
9										
3G	С	BGC		NEERING INC.	Client: Victoria Gold					

Pro	oject:	Eag	le Golo	d, Site F	acilites TEST PIT # TP-BGC09-DG-4		.	Pag	ye 1 of 1		
Sui Co- Gro Dat	rvey l -ordir ound tum :	Metho nates Eleva UTM	od : Ha s (m): 4 ation (1 NAD 8	Location : Haggart Creek Project No. : 0/92-00. d : Handheld GPS Excavator : CAT 325B Start Date : 08 Aug 09 (m): 458311E, 7100857N Operator : Larry Paulsen Finish Date: 08 Aug 09 tion (m) 801 Final Depth of Pit (m) : 3.0 Logged by : MRR NAD 83 Reviewed by : PQ PQ							
o Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Description ORGANICS Moss, dark brown, rootlets.	VANE PEAK REMOLI * %	S 40 80 FIELD LAB → □ Fines Moist 20 40 40	u - kPa 120 △ F ↓ ure Content ₩% - 0 60	160 JC/2 Pocket Pen /2		
					GRAVEL and BOULDERS Some sand, some silt, subrounded, compact, max clast 40cm, moist, grey silt laminations. SILT and COBBLES Some gravel, subrounded to subangular, max clast 30cm, very dense, tan, homogeneous. FROZEN. 1.0m - FROZEN: Vs, 5%. SANDY SILT (SM) Fine sand, trace day, non plastic, very hard, tan, faint laminations, low dry strength. FROZEN: Vx, 3%. 2.20m - ICE, 2 cm thick horizontal laminations. END OF TP @ 3.0m. REFUSAL ON FROZEN GROUND. NOTES: 1) Rootlets down to 0.4m. 2) No seepage. 3) Backfilled to surface.						
B	GC			ENG	Client: Victoria Gold						

Proje	ect:	Eag	le Gol	d, Site F	TEST PIT # TP-BGC09-HL4-10				Р	age 1 o	;1														
Surve Co-or Grour Datun	vey Method : Handheld GPS Excavator : CAT 325B ordinates (m): 458467E, 7100779N Operator : Larry Paulsen und Elevation (m) 827 um : UTM NAD 83							Start Date : 31 Jul 09 Finish Date: 31 Jul 09 Final Depth of Pit (m) : 6.5 Logged by : HG Reviewed by : PQ																	
(III)	ole Type	ole No.	hering Grade	log	Lithologic Description	VANE PEAK REMOLI ★ %	Fines	Su - 80 <u> </u> <u> </u> 	kPa 120 ▲ △	160 UC/2 Pocket P	en /2														
	a Samp	Samp S1	Weat	Symb	SILT (ML) Some sand, some gravel, trace clay, firm - stiff, greyish-brown, moist, no evident structure, weak-moderate cementation. Gravel clasts (up to 6cm), occasional cobbles (up to 12cm), including medium strong (R3) metasedimetary subangular and extremely strong (R6) subrounded granodiorite. [FILL?]	₩ _₽ %	20	40	Conter	80	- ×														
2 3 <u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	my.	S2			SILTY SAND (SM) Some gravel, very fine to fine sand, poorly graded, loose, trace gravel (up to 6cm), occasional cobble (up to 12cm), subangular and subrounded particles, moist, no structure, none to weak cementation. [FILL?]	0																			
5	83 7	S3																	.T (ML) me fine sand and gravel, firm brown, moist, subangular and subrounded gravel h occasional cobbles, no structure, weak cementation. LL?]	0					
7 8 9 0		S4			 END OF TP @ 6.5m. EXTENT OF EXCAVATOR REACH. NOTES: 1) Roots down to 0.45m. 2) No seepage, no visible ground ice. 3) Backfilled to surface. 	0																			
3G) G			ENG ED EARTH	INEERING INC. SCIENCES COMPANY																				
OLIVE GULCH

- TP-BGC09-HL5-1
- TP-BGC09-HL5-2
- TP-BGC09-HL5-3
- TP-BGC09-HL5-4
- TP-BGC09-HL5-5
- TP-BGC09-HL5-6
- TP-BGC09-HL5-7
- TP-BGC09-HL5-8
- TP-BGC09-HL5-9
- TP-BGC09-HL5-10

Pr	oject:	Eag	le Gol	d, Site F	acilites TEST PIT # TP-B	GC09-HL5-1			P	age 1 of	1
		0		,	Location : Olive Gulch			Project	t No. : 07	792-002	
Su Co Gra Da	rvey l -ordii ound tum :	Vethonates Eleva UTM	od : Ha s (m): 4 ation (NAD 8	andheld (461915E (m) 1340 83	GPS Excavator : CAT 325B , 7100367N Operator : Larry Paulser	1	Start Dat Finish D Final De Logged Reviewe	te:20 Jul ate:20 Ju pth of Pit by:HG d by:PQ	09 09 (m) : 4.	4	
								s	u - kPa		
							40	0 80	120	160	
	e		Grade		Lithologic Descriptio	n	VANE PEAK REMOLD	FIELD LAE		UC/2 Pocket Pe	en /2
(E	e Typ	e No	ering	_			★ % F	ines			
epth	ample	ample	eath	/mbo			W _P %	Moist	ure Conter	nt	W _L %
0	Š	ŝ	Š	S .			×	 0 40	- 0 — — — 60	80	- ×
					Scrub brush, small spruce and moss covering, bou Grandorite BOULDERS and COBBLES Silty sand infill, subangular cobbles and angular bo some oxide staining, strong to very strong, silty sar some gravel, compact. [WEATHERED ROCK] END OF TP @ 4.4m. REFUSAL ON BEDROCK. NOTES: 1) Roots down to 0.4m. 2) No seepage or visible ground ice. 3) During excavation pit walls collapsed. 4) Relict joints visible in weathered rock along TP v 5) Backfilled to surface.	ulders also visible on surface. pulders, slightly weathered, ad matrix, fine to med grains, walls.					
		1									
B B	GC				NEERING INC.	Client: Victoria Gold					

Pro	oject:	Eag	le Gol	d, Site F	acilites TEST PIT # TP-BGC09-HL5-2			P	age 1 of 1
Sur Co- Gro Dat	rvey l -ordii ound tum :	Vethonates Eleva UTM	od : Ha ; (m): 4 ation (NAD 8	andheld (461740E (m) 1290 33	Location : Olive Gulch SPS Excavator : CAT 325B , 7100620N Operator : Larry Paulsen	Start Da Finish I Final D Loggeo Review	Project ate: 20 Ju Date: 20 Ju epth of Pi I by: HG ed by: PC	et No. : 0 II 09 II 09 II 09 If (m) : 6.	0
› Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Description	VANE PEAK REMOLI ★ %	40 80 FIELD LA ← □ Fines 20 40	Su - kPa 120 B A A b b b b c c c c c c c c c c c c c	$\frac{160}{\text{UC/2}}$ Pocket Pen /2 $\frac{1}{10000000000000000000000000000000000$
0 1					ORGANICS/TOPSOIL Vegetation cover consists of sparse spruce, moss and some scrub brush. Granodiorite BOULDERS and COBBLES Subangular, strong, in a dark grey silty sand (SM) infill. [COLLUVIUM?]				
-2 3 					SAND (SM) Weathered Bedrock in a gravelly sand matrix, fine to coarse, some silt, some boulders and cobbles, compact, brown ocher colored sand, some oxide discoloration, moist, weak cementation.				
7 8 9					 END OF TP @ 6.0m. EXTENT OF EXCAVATOR REACH. NOTES: 1) Roots down to 0.4m. 2) No seepage or visible ground ice. 3) Large variation in cobble/boulder strength, from weak to very strong (R2-R5). 4) Backfilled to surface. 				
-10-	G		SGC	ENG	Client: Victoria Gold		·	1	1

Pro	oject:	: Eag	le Gol	d, Site F	acilites TEST PIT # TP-B	GC09-HL5-3				Page 1	of 1
		-3		,	Location : Olive Gulch			Proje	ct No. :	0792-00	2
Sur Co- Gro Dat	rvey l -ordii ound tum :	Methonates Elevo UTM	od : Ha s (m): 4 ation (I NAD 8	andheld (461692E (<i>m</i>) 1256 33	GPS <i>Excavator</i> : CAT 325B , 7100763N <i>Operator</i> : Larry Paulser	n	Start Da Finish I Final Do Logged Reviewo	nte: 20 Ju Date: 20 J Lepth of P L by: HG Led by: P	ul 09 Iul 09 <i>it (m)</i> : Q	2.0	
									Su - kPa		
								10 80	0 1	20 16	0
	e		Grade		Lithologic Descriptic	n	VANE PEAK REMOLE	FIELD LA		UC/2 Pocket	Pen /2
(E	e Typ	e No.	ering	_			★ %	Fines			
epth	ampl	ampl	/eath	ymbc			W _P %	Moi	sture Con	tent	×
0	S	S	8	0 17				20 40	0 6	80 8	0
					Fairly open vegetation, scattered spruce and shrub testpit.	s, boulder field just East of					
- 1		S1			GRAVEL (GW) Fine to med sand, trace cobbles and boulders, darl moist, compact, FROZEN: Nf to Nbn.	k greyish-brown zone cold and	0				
		- S2					0				
0		S3					0				
- 2	2				END OF TP @ 2.0m. REFUSAL ON FROZEN GI NOTES:	ROUND.					
					 Roots down to 0.4m. No seepage. 						
3					3) Backfilled to surface.						
4											
5											
Ũ											
6											
7											
8											
U											
9											
10-											
P		BGC ENGINEERING INC.									
D				ED EARTH S	SCIENCES COMPANY						

Pre	oject:	: Eag	le Gol	d, Site F	acilites TEST PIT # TP-BGC09-	HL5-4				Page 1	of 1
Sul Co Gro Dat	rvey l -ordii ound tum :	Meth nates Elev UTM	od : Ha ; (m): 4 ation (NAD 8	andheld (462120E (m) 1364 33	Location : Olive Gulch GPS Excavator : CAT 325B , 7100182N Operator : Larry Paulsen	S F F L F	Start Da Finish E Final De Logged Reviewe	Proje te: 26 J Date: 27 J Date: 2	<i>ct No.</i> : ul 09 Jul 09 <i>Pit (m)</i> : Q	0792-00 5.5	2
> Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Description		4 VANE PEAK REMOLD ★ % ₩ _۶ % × -2	0 8 <u>FIELD</u> <u>L</u> / → [Fines Moi	Su - kPa 0 1 ■ △ □ △ □ □ ○ □ 0 − 0	20 16 UC/2 Pocket tent 808	S0 Pen /2
	6	S1		· · · · · · · · · · · · · · · · · · ·	ORGANICS/TOPSOIL Moss and lichen cover over thin layer of black silty soil. GRAVELLY SILT (ML), Some sand, low plastic, soft, brown, moist, no visible structu cementation, slow dilatancy, weathered metasedimentary cla to 8cm), from medium strong to strong (R3-R4), surface stai angular quartz evident.	re, none-weak sts and cobbles (up ning, subangular to	0				
- - - - - - - - - - - - - - - - - - -	En Star	S2 S3			GRAVELLY SAND (SM) Some silt, well graded, loose, angular metasedimentary clast reddy-brown, dry, no evident structure, none-weak cementat SAND (SP) Medium-coarse grained, loose-compact, subrounded particle dry visible relict structure in corestones which crumble under weak to weak (R1-R2), completely weathered (W5) coreston improves with depth, angular cobble with surface staining ob- mediumstrong-strong (R3-R4). [WEATHERED GRANODIORITE]	s (up to 6cm), on. s, yellowish-brown, finger pressure, very es. Strength served was	0				
					 END OF TP @ 5.5m. EXTENT OF EXCAVATOR REACH. NOTES: 1) Roots down to 0.3m. 2) No seepage, minor sloughing, no visible ground ice. 3) Backfilled to surface. 						
- - - 			GC	ENG		Victoria Gold					

Pro	oiect	Ead	le Gol	d. Site F	acilites TEST PIT # TP-E	3GC09-HL5-5				Page 1 d	of 1
		Lug		., 0	Location : Olive Gulch			Projec	:t No. : (0792-002	2
Sur Co- Gro Dat	rvey l -ordii ound tum :	Methonates Eleva UTM	od : Ha s (m): 4 ation (I I NAD 8	indheld (62403E m) 1378 33	GPS <i>Excavator</i> : CAT 325B , 7100182N <i>Operator</i> : Larry Paulse	n	Start Da Finish D Final De Logged Reviewe	te: 27 Ju pate: 27 Ju pth of Pi by: HG ed by: P(ul 09 ul 09 i t (m) : 2 Q	2.0	
									Su - kPa		
							4	0 80	12	0 16	0
			de				VANE		B	UC/2	0
	0		Grac		Lithologic Description	าท	PEAK	<u>+ </u>		00/2	
Ē	Type	No.	ing (REMOLD	♦ □		Pocket	Pen /2
h (n	Since Since				* % 1	-ines Mois	ture Cont	ent			
Jept) Mul			₩ _₽ % —		o — -		×	
-0-			^	N 14 · N1	0000000000000		2	0 40	60	0 80)
_			I T T	ORGANICS/TOPSOIL		-					
- - 1	5	S1			Some sand, low plastic, firm, brown, moist, no evi cementation, metasediment clasts increasing in si staining evident.	dent structure, weak ze with depth, surface and joint	0				
-					METASEDIMENTARY BEDROCK Brown fine, medium grained, stratified, strong (R3 (WIL - WIII), dipping (roughly) SW, oxide joint/sur), slight moderate weathering	-				
- 2				~ ~ ~		ade stanning.					
					END OF TP @ 2.0m. REFUSAL ON BEDROCK. NOTES:						
_					1) Roots down to 0.65m.						
-					 No seepage, no visible ground ice. Appears to be dipping South to Southwest. 						
- 3					4) Backfilled to surface.						
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		ק F	3GC	ENG		Client: Victoria Gold					
B	GI(D EARTH	SCIENCES COMPANY						

Pr	oject:	Eaa	le Gol	d, Site F	TEST PIT # TP-BGC09-HL5-6			Page	1 of 1
	.,	y	2 001	.,	Location : Olive Gulch		Project	• No. : 0792-	002
Su Co Gre Da	rvey l -ordii ound tum :	Vethonates Eleva UTM	od : Ha : (m): 4 ation (NAD 8	andheld (462551E (m) 1370 83	GPS Excavator : CAT 325B , 7100377N Operator : Larry Paulsen	Start Finis Final Logg Revie	: Date : 27 Jul :h Date: 27 Ju I Depth of Pit ged by : HG ewed by : PQ	09 I 09 (m) : 5.5	
Jepth (m)	sample Type	sample No.	Veathering Grade	Symbol	Lithologic Description	VANI PEAI REM ₩,₽	40 80 E <u>FIELD</u> LAB K ◆ ■ OLD ◇ □ · % Fines	u - kPa 120 ⊥ ▲ UC/ △ Poc ure Content ₩% · O — — — —	160 2 ket Pen /2
0-	0	S	5	N N. J. J. J. J.	ORGANICS/TOPSOI		20 40	60	80
- - - - - - -	*	S1			Brown silty soil with rootlets, moss and grass cover. SILT (ML) Some gravel, trace sand, low plasticity, firm, brown with thin lenses of a reddish-brown and grey material near 1m depth, subangular to angular metasedimentary clasts, moist, no structure, none-weak cementation. changes to a grey color with depth, sand content increases with depth. [COLLUVIUM]	sandy Material	0		
- 2 	Ewy .	S2			 SAND (SP) Fine to medium grained, poorly graded, trace silt, trace gravel, loose, simineral grains, other brown and beige subrounded grains, dry, none-we cementation. [COMPLETELY WEATHERED GRANODIORITE] 3.0m - Relict structure becomes evident in corestones, crumble to sand finger pressure. 	ome flat eak d with	0		
— 5 -	any.	53			SAND (SW)				
					 weaium to coarse grained, some subrounded gravel, grey, moist-wet, s END OF TP @ 5.5m. SEEPAGE AND SLOUGHING. NOTES: Roots down to 0.65m. Seepage at 5.5m, no visible ground ice. Slotted PVC groundwater monitoring standpipe installed. Backfilled to surface. 	seepage.			
-10	1								
B	GC				INEERING INC. Client: Victoria Go SCIENCES COMPANY	old			

Pro	oject:	Eag	le Gol	d, Site F	acilites TEST PIT # TP-BGC09-HL5-7				Page 1	of 1
					Location : Olive Gulch		Proje	ct No.	: 0792-00)2
Sui Co- Gro Dat	rvey I -ordir ound tum :	Metho nates Eleva UTM	od : Ha ; (m): 4 ation (NAD 8	andheld (462478E (<i>m</i>) 1366 33	GPS Excavator : CAT 325B , 7100677N Operator : Larry Paulsen	Start Da Finish L Final De Logged Reviewe	nte: 27 J Date: 27 Septh of I by: HG Sed by: F	lul 09 Jul 09 Pit (m) PQ	: 4.8	
								Su - kF	'a	
			irade		Littelesia Description	VANE PEAK	t0 ε FIELD L	0 <u>AB</u> ▲	120 1 UC/2	60 I
th (m)	ple Type	ple No.	thering G	lod		REMOLE ★ %) ♦ Fines Ma	isture Co	Pocke	et Pen /2
Dept	Sam	Sam	Wea	Sym		W _P % -	20 4		60	— — × 80
0- - -	8	S1			ORGANICS/TOPSOIL Black silty soil with moss cover and rootlets throughout. SILT (ML)		>			
- - 1 - -	\$	S2			Trace sand, trace gravel, low plastic, soft, brown, moist, weak cementation. SILTY SAND (SM) Some gravel, loose, grey moist, some gravel/cobbles, clast size increasing with depth, both metasedimentary and granodiorite subrounded-subangular clasts. [COLLUVIUM]					
- 2 - - 3 - 3 	EW.	S3			GRAVELLY SAND (SM) Some silt, silt content decreasing with depth, loose, subangular and subrounded gravel and clasts of both metasedimentary and granodiorite origin, brown, moist, no structure. [COLLUVIUM]	0				
- 4 - -				$ \diamond \diamond \diamond \diamond \diamond \diamond \diamond \diamond \diamond \diamond$	GRANODIORITE - grey with black and white flecks, coarse grained, very strong (R5), fresh-slightly weathered (W1-W2), angular-subangular cobbles. [BEDROCK]					
- 5 6 7 - 7 - 8					 END OF TP @ 4.8m. REFUSAL ON BEDROCK. NOTES: 1) Roots down to 0.5m. 2) Sharp contact between colluvium and bedrock at 4.0m, no evidence of a weathered intermediate zone. 3) No seepage or visible ground ice. 4) Backfilled to surface. 					
- 9										
-10							1	1	1	1
B	GC				NEERING INC. Client: Victoria Gold					

Pr	oiect	: Ead	le Golr	d. Site F	acilites TEST PIT # TP-BGC09-HL5-8				Page 1 d	of 1
	5,000	_ug		., ene i	Location : Olive Gulch		Proje	ct No. :	- 0792-00	2
Su Co Gr Da	orvey l o-ordii ound otum :	Methonates Eleva UTM	od : Ha s (m): 4 ation (I NAD 8	andheld (162281E m) 1348 33	BPS Excavator : CAT 325B 7100688N Operator : Larry Paulsen	Start D Finish Final D Logge Review	ate:27 J Date:27 J Pepth of P d by:HG ved by:P	ul 09 Jul 09 P it (m) : (0.9	
								Su - kPa		
Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Description	VANE PEAK REMOL ★ % W₅% × -	40 80 FIELD L/ ◆ I D ◇ [] → Fines Moi	0 12 <u>AB</u> ▲ □ △ isture Cont W% 0 - 0 6	20 16 UC/2 Pocket	$\frac{\text{Pen }/2}{-\frac{W_L\%}{0}}$
- 1 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 4 - 5 - 6 - 7 - 7 - 8		S1			Dark brown silty soil covered with moss and lichen. SANDY SILT (ML) Trace gravel, subrounded metasedimentary clasts (<5cm) and some weathered granodiorite clasts, brown matrix, moist, firm, no structure.					
- - - - - - - - - 10				ENG	NFERING INC.					

Pr	oiect	Ead	le Gol	d. Site F	acilites TEST PIT # TP-B	3GC09-HL5-9				Page 1 o	f 1
		Lug		.,	Location : Olive Gulch			Projec	:t No. : ()792-002	
Su Co Gr Da	rvey l -ordii ound tum :	Methonates Eleva UTM	od : Ha s (m): 4 ation (I I NAD 8	andheld (162138E m) 1320 33	GPS <i>Excavator</i> : CAT 325B , 7100715N <i>Operator</i> : Larry Paulse	en	Start Da Finish D Final De Logged Reviewe	te: 27 Ju ate: 27 J pth of Pi by: HG ed by: P(ul 09 ul 09 i t (m) :1 ຊ	.4	
	Sample Type	Sample No.	Weathering Grade	C 1 1 1 1 1 1 1 1 1	CRGANICS/TOPSOIL Black silty soil, moist, thin moss and lichen cover. SILT (ML) Some coarse sand, fine gravel, low plasticity, soft, rapid dilation, lenses of completely weathered grar	on , brown, moist, no structure, nodiorite sand.	4 VANE PEAK REMOLD ★ % F W _p % × - 2	0 800 FIELD LA C Tines Mois 0 400 0	Su - kPa	0 160 UC/2 Pocket F ent 0 80	9 Pen /2 - X
-1					 GRANODIORITE ROCK Black and white specs, coarse grains, tabular, stro (WI). [BEDROCK] END OF TP @ 1.4m. REFUSAL ON BEDROCK. NOTES: Roots down to 0.5m. Dug into valley slope, granodiorite boulders and No seepage, no visible ground ice. Backfilled to surface. 	d cobbles visible on surface.					
В	GC		SGC	ENG D EARTH	NEERING INC. SCIENCES COMPANY	Client: Victoria Gold					

Pr	oiect:	: Ead	le Gol	d. Site F	acilites TEST PIT # TP-B(GC09-HL5-10	Page 1 of 1
	- ,			.,	Location : Olive Gulch		Project No. : 0792-002
Su Co Gr Da	rvey l -ordii ound tum :	Metho nates Eleva UTM	od : Ha s (m): 4 ation (I NAD 8	andheld (162460E m) 1358 33	SPS Excavator : CAT 325B 7100369N Operator : Larry Paulser	n	Start Date : 27 Jul 09 Finish Date: 27 Jul 09 Final Depth of Pit (m) : 2.8 Logged by : HG Reviewed by : PQ
o Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Descriptio	on	Su - kPa 40 80 120 160 VANE FIELD LAB \blacktriangle UC/2 PEAK \blacksquare \Box Δ Pocket Pen /2 ★ % Fines \bigcirc \bigcirc \bigcirc \bigcirc W ₂ % \bigcirc \bigcirc \bigcirc \frown 20 40 60 80
		S1			ORGANICS/TOPSOIL Silty, wet soil under grass hummocks. SILTY GRAVEL (GM) Some sand, wet matrix with metasedimentary and and the odd subrounded granodiorite boulder, brow [COLLUVIUM] GRANODIORITE ROCK White and black rock, speckled, some structure vis material. [BEDROCK] END OF TP @ 2.8m. RAPID SEEPAGE AND SLO ENCOUNTERED. NOTES: 1) Root depth unobservable. 2) Ponded water on surface in a 20m - 30m vide I 3) Seepage and sloughing from initial excavation, level. 4) Backfilled to surface.	granodiorite subangular clasts wn. sible under wet sloughing OUGHING, BEDROCK boggy area with hummocks. measured only from ground	
	G			ENG ED EARTH S	NEERING INC. Isciences company	Client: Victoria Gold	

STUTTLE GULCH

- TP-BGC09-HL4-1
- TP-BGC09-HL4-2
- TP-BGC09-HL4-3
- TP-BGC09-HL4-4
- TP-BGC09-HL4-5
- TP-BGC09-HL4-6
- TP-BGC09-HL4-7
- TP-BGC09-HL4-8
- TP-BGC09-HL4-9
- TP-BGC09-HL4-13
- TP-BGC09-HL4-14
- TP-BGC09-HL4-15
- TP-BGC09-STU-3
- TP-BGC09-STU-4

Pro	niect [.]	Fag	le Goli	d Site F	TEST PIT # TP-BGC0)9-HL4-1				Page 1 c	o f 1
110	<i>.</i>	Lug		a, one i	<i>Location</i> : Eagle Pup area			Projec	ct No. :	0792-002	2
Sur Co- Gro Dat	vey l ordir ound tum :	Vethenates Eleva	od : Ha : (m): 4 ation (i NAD 8	andheld (459710E m) 963 33	GPS Excavator : CAT 325B , 7100706N Operator : Larry Paulsen		Start Da Finish E Final De Logged Reviewe	te: 24 Ju pate: 24 J pth of P by: HG ed by: P	ul 09 ul 09 <i>it (m)</i> : 1	1.9	
									Su - kPa		
pth (m)	mple Type	mple No.	eathering Grade	mbol	Lithologic Description		4 VANE PEAK REMOLD ★ %	0 80 FIELD LA ♦ □ Fines	0 12 <u> <u> <u> </u> <u> </u></u></u>	20 16 UC/2 Pocket	0 Pen /2 ₩լ%
Del	Saı	Saı	We	Syr			×2	0 40	0 —) 6	0 80	×
- - - - - - - - - 2	\$	S1			ORGANICS/10PSOIL Moss, roots, black to light brown silty soil. SILT (ML) Some gravel, trace fine sand, trace clay, weathered meta Vr, 10 - 20%. END OF TP @ 1.9m. REFUSAL ON FROZEN GROUND NOTEC.	sed clasts, FROZEN: Vx,		0			
					 Roots down to 0.3m. No seepage. PVC casing installed for thermistor string. Backfilled to surface. 						
В	GC			ENG ED EARTH	INEERING INC. Clie	nt: Victoria Gold					

Pro	oiect:	Ead	le Goli	d. Site F	TEST PIT # TP-BGC09-HL4-2				Pa	ge 1 o	f 1
	.,	_ug		., 0.00 /	Location : Eagle Pup		Proje	ect No	o. : 07	- 92-002	
Sur Co- Gro Dat	rvey l ordir ound tum :	Netho nates Eleva UTM	od : Ha s (m): 4 ation (i NAD 8	andheld (159528E m) 910 33	GPSExcavator : CAT 325B, 7100891NOperator : Larry Paulsen	Start Da Finish I Final Do Loggeo Review	ate : 24 C Date: 24 epth of I I by : HG ed by : F	Jul 09 Jul 09 Pit (m S PQ)) : 2.3		
	1			<u>г г</u>				0	.D		
							40	5u - r	120	100	
		Type Type			VANE			120)	
	ω			PEAK	•		-				
(u	Typ			* %	Fines		Δ	Pocket F	en /2		
th (r	Jple	Sample				Мс	oisture	Content		14/ 0	
Dep	San	San	Wea	Syn		× -	- <u> </u>	0	°		- ×
-0-				<u>, 1 1/2</u>	ORGANICS/TOPSOIL		1	1	+		
	♥	S1		li ti ti ti	Moss and lichens, rootlets, black silty soil.		0				
- 1	•	S2			SILT (ML) Some gravel, trace fine sand, trace clay, subrounded and subangular clasts, slight mottling in brown soil. FROZEN from 0.3m down: Vs, 20-40%.					0	
3		S3			 END OF TP @ 2.3m. REFUSAL ON FROZEN GROUND. NOTES: 1) Roots down to 0.4m. 2) No seepage. 3) PVC installed for thermistor string. 4) Backfilled to surface. 	_	0				
5 6 7											
8 9 10-											
B	GC		SGC	ENG	INEERING INC. Client: Victoria Gold SCIENCES COMPANY Client: Victoria Gold						

Pro	oject:	Eag	le Gol	d, Site F	acilites TEST PIT # TP-BGC09-HL4-3				Page 1	of 1
					Location : Eagle Pup area		Proje	ect No. :	0792-00	2
Sur Co- Gro Dat	vey l ordii ound tum :	Nethonates Eleva UTM	od : Ha ; (m): 4 ation (NAD 3	andheld (459427E (m) 913 83	GPSExcavator : CAT 325B, 7100724NOperator : Larry Paulsen	Start Date : 24 Jul 09 Finish Date: 24 Jul 09 Final Depth of Pit (m) : 5.0 Logged by : HG Reviewed by : PQ				
								Su - kPa		
			e				40 8		20 16	60
	be		g Grad		Lithologic Description	PEAK REMOLI			Pocket	Pen /2
(m)	e Typ	e No	ering	_		★ %	Fines			
epth	ampl	ampl	/eath	ymbo		W _P % × -	Mo	isture Con W%	itent	
0_	S	S	5	0 <u>11, ., 17</u>	ORGANICS		20 4	·o e	50 8	0
-	•	S1			Moss and lichen over brown silty soil, trace gravel.	(
-					SILT SAND (SM) Some subrounded cobbles and boulders, up to 0.4m.					
— 1 - - - - 2 -					[FILL ?] SILTY SAND (SW-SM) Some gravel, trace clay, grey brown with oxidized zones of orange sand (5 cm) and thin clay seams (1.5cm), angular to sub-angular clasts, occasional sub-rounded boulders (0.4m). FROZEN: Nf, Nbe. [TILL?]					
- 3 		S2				0				
- 4		S3			CLAY (CL), Trace gravel, trace silt, grey, wet when thawed, well bonded when fresh, FROZEN: Nbe, Vx. [TILL?]		0			
6					 END OF TP @ 5.0m. EXTENT OF REACH IN FROZEN MATERIAL. NOTES: 1) Roots down to 0.5m. 2) No seepage. 3) Backfilled to surface. 					
8										
-										
-10-										
B	G				NEERING INC. Client: Victoria Gold					

Pro	oiect [.]	Fag	le Goli	d Site F	acilites TEST PIT # TP-B	GC09-HL4-4			Page 1	of 1	
ΓN	ojeci.	Lay	6 000	u, Sile i	Location : Eagle Pup			Project	No. : 0792-00)2	
Sui Co- Gro Dat	rvey l -ordir ound tum :	Vethenates Eleva	od : Ha (m): 4 ation (NAD 8	andheld (159592E m) 962 33	GPS Excavator : CAT 325B 7100556N Operator : Larry Paulse	n	Start Date : 24 Jul 09 Finish Date: 24 Jul 09 Final Depth of Pit (m) : 2.3 Logged by : HG Reviewed by : PQ				
Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Descriptio	חמ	40 VANE E PEAK REMOLD ★ % Fin W _p % ×	Su 80 ELD LAB ♦ □ es Moistur 40	- kPa 120 1 △ UC/2 △ Pocke e Content %% O — — — 60 4	60 t Pen /2 	
	9	S1			ORGANICS Moss, roots and organic soil. SANDY SILT (SM) Trace clay, trace gravel, firm, brown, moist, sub-ar SAND (SW) Well graded, trace silt, sub-anglular clasts - mainly rust colored sand lenses, oxidized quartz clasts (up from 0.5m: Nbn. [COLLUVIUM?] END OF TP @ 2.3m. REFUSAL ON FROZEN G NOTES: 1) Roots down to 0.5m. 2) No seepage. 3) Backfilled to surface.	ngular clasts up to 6cm. r metasedimentary, grey and p to 3cm),dry to wet. FROZEN ROUND.					
В	GC			ENG ED EARTH S	NEERING INC.	Client: Victoria Gold					

Pro	ject:	Eag	le Gol	d, Site F	acilites TEST PIT # TP-BGC09-HL	24-5 Page 1 of 1
Sur Co- Gro Dati	vey l ordir ound um :	Vethenates Eleva UTM	od : Ha ; (m): 4 ation (1 NAD 8	andheld (459685E (m) 987 33	Location : Eagle Pup area SPS Excavator : CAT 325B , 7100410N Operator : Larry Paulsen	Project No. : 0792-002 Start Date : 25 Jul 09 Finish Date: 25 Jul 09 Final Depth of Pit (m) : 6.5 Logged by : HG Reviewed by : PQ
Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Description	Su - kPa4080120160IIIIVANEFIELDLABIVEAKIICREMOLDIIPocket Pen /2★ % FinesMoisture ContentW%W%
					ORGANICS/TOPSOIL Moss, lichen, black soil, some sub-angular cobbles up to 7cm ne SANDY SILT (ML) Some gravel, trace clay, low plastic, brown, moist with exposed p free water, no visible structure, slow dilatancy, clasts up to 4cm subangular metasedimentary rock. FROZEN: Nf. [COLLUVIUM] 0.5m - Drier, friable sand lenses, no evident structure. Material FROZEN: Nbe.	ear surface.
- 3 - 4 - 5					SILT (ML) Some clay, trace sand, FROZEN: Nbe. GRAVEL (GM) Some silt, well graded, angular to subangular clasts up to 6cm, I FROZEN: Nf, trace Vx. [COLLUVIUM]	light brown.
- 6 7 8 9					 END OF TP @ 6.5m. EXTENT OF EXCAVATOR REACH. NOTES: 1) Roots down to 0.5m. 2) Some sloughing, no seepage. 3) Backfilled to surface. 	
-10-				ENG		oria Gold

Pro	oject:	Eag	le Gol	d, Site F	acilites TEST PIT # TP-BGC09-HL4-6				Page 1 c	of 1
Sui Co- Gro Dat	rvey l -ordir ound tum :	Veth nates Eleva UTM	od : Ha ; (m): 4 ation (NAD 8	andheld (159607E m) 991 33	Location : Eagle Pup area GPS Excavator : CAT 325B , 7100219N Operator : Larry Paulsen	Start Date : 25 Jul 09 Finish Date: 25 Jul 09 Final Depth of Pit (m) : 6.0 Logged by : HG Reviewed by : PQ				
b Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Description	4 <u>VANE</u> PEAK REMOLD ★ % I W _p % × -2	0 80 FIELD L/ C Fines Moi 0 40	Su - kPa) 1 ▲B ▲ ▲ Sture Con W ^W	20 16 UC/2 Pocket tent 	$\frac{1}{10000000000000000000000000000000000$
					ORGANICS/TOPSOIL Moss and lichen cover, roots, dark brown top soil. SAND (SM) Some silt, some angular gravel, cool not frozen, loose, brown, moist, no evident structure, weakly cemented. Gravel to cobble sized metasedientary clasts, orange oxide surface staining. [COLLUVIUM]					
2 3 3 4					GRAVEL (GM) Some silt, well graded, loose, angular, brown, moist, no notable structure, weakly cemented, lenses of reddy brown sand. [COLLUVIUM?]					
- - - - - - - - - - - - - - - - - - -					Highly Weathered Metasedimentary Rock Some sand, trace silt, oxidized surfaces, highly fractured rock. [WEATHERED BEDROCK] END OF TP @ 6.0m. EXTENT OF EXCAVATOR REACH.	_				
- 7 - 7 - 8 - 8 - 9					 Roots down to 0.5m. No seepage, no visible ground ice, minor sloughing. Backfilled to surface. 					
- - - 										
В	G				INEERING INC. Client: Victoria Gold SCIENCES COMPANY Client: Victoria Gold					

Pro	oject:	Eaq	le Golo	d, Site F	acilites TEST PIT # TP-BGC09-HL4-7				Page 1 o	f 1			
				,	Location : Stuttle Gulch		Proje	ct No. :	0792-002				
Sui Co- Gro Dat	rvey l -ordii ound tum :	Vethonates Eleva UTM	od : Ha : (m): 4 ation (I NAD 8	indheld (59296E m) 894 33	GPS Excavator : CAT 325B , 7100615N Operator : Larry Paulsen	Start Date : 25 Jul 09 Finish Date: 25 Jul 09 Final Depth of Pit (m) : 2.8 Logged by : HG Reviewed by : PQ							
							Su - kPa						
Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Description	VANE PEAK REMOLI ★ %	40 8 FIELD L/ ◆ I D ◇ I Fines Moi 20 4	0 1: <u>AB</u> ▲ □ △ isture Con W% 0 0 6	20 160 UC/2 Pocket F tent 	Pen /2			
0- - - - - - 1	193	S1			ORGANICS/TOPSOIL Moss and lichen cover, brown and black silty soil, rootlets throughout. SILT (ML) Some gravel clasts, trace ice inclusions, poorly bonded. [COLLUVIUM]	0							
- - - - - 2 -	₩.y.	S2			SAND (SW) Gravelly, some silt, well graded, brown, weathered, metasedimentary clasts up to 4cm, orange oxide stained quartz clasts predominant. FROZEN: Vr, 20%. [COLLUVIUM]		0						
					 END OF TP @ 2.75m. REFUSAL ON FROZEN GROUND. NOTES: 1) Roots down to 0.6m. 2) PVC casing installed for thermistor string. 4) Backfilled to surface. 								
- - 													
В	G				NEERING INC. Client: Victoria Gold SCIENCES COMPANY Client: Victoria Gold								

Proiect: E	agle Golo	d. Site Fa	acilites TEST PIT # TP-BGC09-HL4	1-8 Page 1 of 1
		.,	Location : Stuttle Gulch	Project No. : 0792-002
Survey Me Co-ordina Ground El Datum : U	ethod : Ha ntes (m): 4 levation (i TM NAD 8	andheld (159412E, m) 928 33	GPS Excavator : CAT 325B 7100409N Operator : Larry Paulsen	Start Date : 25 Jul 09 Finish Date: 25 Jul 09 Final Depth of Pit (m) : 2.2 Logged by : HG Reviewed by : PQ
Comparison of the second secon	CS 12 Sample No.		Lithologic Description ORGANICS/TOPSOIL Black silty soil with rootlets thorughout, trace gravel, trace sand. SILT and GRAVEL Sandy, well graded, clasts up to ~6cm, angular-subangular, colour gradationally from brown to grey with depth and back to brown, ler brown sand, stratified 2cm thick, grey and black bands for ~20cm, variable. No notable structure. FROZEN from 0.8m: Vs, 10-20%. [COLLUVIUM] END OF TP @ 2.2m. REFUSAL ON FROZEN GROUND. NOTES: 1 Roots down to 0.6m. 2 Thick, 0.5m organic layer. 3 No water observed in Stuttle Gulch, however further upstream exposed at surface. 4 PVC casing installed for thermistor string. 5 Backfilled to surface.	running water
BGC		ENG	Client: Victor	ia Gold

Location : Engle Pup Project No: 1078-002 Survey Method : Handheld GPS Ground Elevation (m) 1002 Datum: UTN NA0.83 Excavator: CAT 3258 Operator: I.any Paulsen Start Date: 20.40.09 Finish Date 2	Pro	oject:	Eag	le Golo	d, Site F	TEST PIT # TP-BGC09-HL4-9			I	Page 1 c	o f 1
Survey Method: Handheld GFS Exeauto: Chi 228 Start Date: 28 Jul 09 Ground Elevation (m) 1002 Dentor:: Larry Paulsen Finish Date: 28 Jul 09 Finish Date: 28 Jul 09 Datum:: UTM NAD 83 Dentor:: Larry Paulsen Finish Date: 28 Jul 09 Finish Date: 28 Jul 09 Image Date: Start Date:: 28 Jul 09 Finish Date: 28 Jul 09 Finish Date: 28 Jul 09 Finish Date: 28 Jul 09 Image Date: Start Date:: 28 Jul 09 Finish Date: 28 Jul 09 Finish Date: 28 Jul 09 Finish Date: 28 Jul 09 Image Date: Start Date:: 28 Jul 09 Finish Date:: 28 Jul 09 Finish Date: 28 Jul 09 Finish Date: 28 Jul 09 Image Date: Start Date:: 28 Jul 09 Finish Date: 28 Jul 09 Finish Date: 28 Jul 09 Finish Date: 28 Jul 09 Image Date: Start Date:: 28 Jul 09 Finish Date: 28 Jul 09 Finish Date: 28 Jul 09 Finish Date: 28 Jul 09 Image Date: Start Date:: 28 Jul 09 Finish Date: 28 Jul 09 Finish Date: 28 Jul 09 Finish Date: 28 Jul 09 Image Date: Start Date:: 28 Jul 09 Finish Date: 28 Jul 09 Finish Date: 28 Jul 09 Finish Date: 28 Jul 09 Image Date: Start Date:: 28 Jul 09 Finish Date: 28 Jul 09 Finish Date: 28 Jul 09 Finish Date: 28 Jul 09 <td></td> <td></td> <td></td> <td></td> <td></td> <td>Location : Eagle Pup</td> <td></td> <td>Projec</td> <td>:t No. : 0</td> <td>792-002</td> <td>2</td>						Location : Eagle Pup		Projec	:t No. : 0	792-002	2
Image: Signal of the second	Sur Co- Gro Dat	vey l ordir ound tum :	Nethenates Eleva UTM	od : Ha : (m): 4 ation (I NAD 8	andheld (159853E m) 1002 33	GPS Excavator : CAT 325B , 7100602N Operator : Larry Paulsen	Start Da Finish L Final De Logged Reviewe	nte: 26 Ju Date: 26 Ju Popth of Pi Doy: HG Pod by: PC	ll 09 ul 09 i <i>t (m)</i> : 5 Q	.7	
0 Image: CRAVELLY SAND (SM) 1 S1 1 S1 1 S1 1 S1 1 S1 1 GRAVELLY SAND (SM) 1 GRAVELLY SAND (SM) 2 GRAVELLY SAND (SM) 3 GRAVELLY SAND (SM) <tr< th=""><th>Depth (m)</th><th>Sample Type</th><th>Sample No.</th><th>Weathering Grade</th><th>Symbol</th><th>Lithologic Description</th><th>VANE PEAK REMOLE ★ %</th><th>0 80 FIELD LA ♦ □ Fines Mois 0 40</th><th>Su - kPa 12/ B A L A A A A A A A A A A A A A</th><th>0 16 UC/2 Pocket I ent </th><th>0 Pen /2</th></tr<>	Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Description	VANE PEAK REMOLE ★ %	0 80 FIELD LA ♦ □ Fines Mois 0 40	Su - kPa 12/ B A L A A A A A A A A A A A A A	0 16 UC/2 Pocket I ent 	0 Pen /2
	\Box		5 5 52 52			GRAVELLY SAND (SM) Some silt, well graded, loose, gravel up to 6cm, angular-subangular, brown, damp to moist, no structure, none-weak cementation. Two visible 5cm thick organic layers (black soil and old wood) at 0.7m and 1.0m. [FILL] GRAVELLY SAND (SM) Some silt, well graded, loose, clasts, up to 6cm, angular-subangular, greyish-brown, div, no structure, none-weak cementation. [COLLUVIUM] METASEDIMENTARY ROCK Grey with oxide staining on fracture surfaces, stratified, strength varies weak to medium strong (R2-R3), highly weathered (W4), dipping downhill. [WEATHERED BEDROCK] END OF TP @ 5.7m. SLOUGHING. NOTES: 1) Roots down to 1.0m. 2) Sloughing in after 1.5m, undercutting occurring. 4) Backfilled to surface.			60		
BGC ENGINEERING INC. Client: Victoria Gold	 B	G			ENG	INEERING INC. SCIENCES COMPANY	<u> </u>				

GENERAL BGC (TESTPIT) 0792-002_03.GPJ BGC.GDT 10/209

Pr	oject	Eag	le Gol	d, Site F	GC09-HL4-13	Page 1 of 1					
	-	0			<i>Location</i> : HL4 area		Pro	ject No. : 0	792-002		
Su Co Gre Da	rvey l ordii ound tum :	Methonates Eleva UTM	od : Ha s (m): 4 ation (I NAD 8	andheld (459110E (<i>m</i>) 902 33	GPS <i>Excavator</i> : CAT 325B , 7100567N <i>Operator</i> : Larry Paulse	n	Start Date : 01 Aug 09 Finish Date: 01 Aug 09 Final Depth of Pit (m) : 1.5 Logged by : HG Reviewed by : PQ				
(m)	Caller Sample Type	Sample No.	Weathering Grade	Symbol Symbol	CRGANICS/TOPSOIL Moss and lichen covering brown silty soil. SILT (ML) Some fine interlensed grey and reddish-brown sar subangular/rounded clasts (up to 6cm), FROZEN SAND (SW) Some silt, brown, well graded, subangular/subrour 6cm). FROZEN: trace Vx. END OF TP @ 1.5m. REFUSAL ON FROZEN G NOTES: 1) Roots down to 0.3m. 2) No seepage. 3) Backfilled to surface.	on Ind, some gravel, angular, from 0.3m: Vs, 40-50%. Inded and angular clasts (up to ROUND.	$ \begin{array}{c c} 40 \\ \underline{VANE} & \underline{FIELD} \\ PEAK & \\ REMOLD & \\ \hline $	Su - kPa 80 120 ■ △ ■ △ Moisture Conte ₩%	0 160 UC/2 Pocket Pen /2 nt		
B	G			ENG ED EARTH S	NEERING INC.	Client: Victoria Gold					

Pr	oject:	: Eag	le Gol	d, Site F	acilites TEST PIT # TP-BGC09-HL4-14		D ue ieu	.	Page 1 (of 1
Su Co Gro Da	rvey l -ordii ound tum :	Metho nates Eleva UTM	od : Ha s (m): 4 ation (I NAD 8	andheld 459269E (m) 910 33	Location : HL4 area GPS Excavator : CAT 325B GPS (7100518N) Operator : Larry Paulsen	Start Date : 01 Aug 09 Finish Date: 01 Aug 09 Final Depth of Pit (m) : 1.9 Logged by : HG Reviewed by : PQ				
• Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Description	VANE PEAK REMOLI ★ % ₩ ₂ % × -	40 80 FIELD LA ♦ E Fines	Su - kPa) 12 B A A Sture Cont W% 0) 6	20 16 UC/2 Pocket tent 0 8	$\frac{100}{100000000000000000000000000000000$
	•	S1			ORGANICS/TOPSOIL Moss and lichen mat over wet black silty soil. SILT (ML) Some gravel, some sand, brown, weathered angular and subangular metasedimentary clasts (up to 6cm) with an occasional cobble (up to 12cm). FROZEN from 0.2m down: Nbe. [COLLUVIUM].		0			
					 END OF TP @ 1.9m. REFUSAL ON FROZEN GROUND. NOTES: 1) Roots down to 0.3m. 2) Minor seepage/melting, weepy walls and pooling in bottom of test pit after 20-30 minutes. 3) PVC casing installed for thermistor string. 4) Backfilled to surface. 					
	G		SGC	ENG ED EARTH	INEERING INC. Client: Victoria Gold					

Pr	oject:	Eag	le Golo	d, Site F	acilites TEST PIT # TP-BGC09-HL4-15				Page 1	of 1
		5		,	<i>Location</i> : HL4 area		Proj	ect No. :	0792-00	2
Su Co Gr Da	orvey l o-ordii ound otum :	Veth nates Eleva UTM	od : Ha : (m): 4 ation (I NAD 8	andheld (159317E m) 961 33	GPSExcavator : CAT 325B, 7100252NOperator : Larry Paulsen	Start D Finish Final D Logged Review	ate:01 Date:01 epthof dby:HC redby:H	Aug 09 Aug 09 Pit (m) : G PQ	1.3	
								Su kDa		
Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Description	VANE PEAK REMOLI ★ %	40 FIELD 1 ◆ Fines Me 	80 1 <u></u> ▲ □ △ □ △ □ △ □ △ □ △ 0 − 0 −	20 11 UC/2 Pocket	60 t Pen /2
0-			-	<u>, 17, 1</u> ,	ORGANICS/TOPSOIL			40		
	•	S2			Inick moss over mart or decomposing organics and brown moist sity soli. SILT (ML) Some sand, some gravel, firm to stiff, brown, moist, no structure, weakly cemented, angular and subangular metasediment clasts (up to 6cm), [COLLUVIUM] SILT (ML) Some sand, trace clay, brown, no evident strucuture, some angular and subangular and subrounded metasedimantary and granodiorite clasts, lens of grey silt with some gravel. FROZEN from 0.2m: Vr, 5-10%, 25mm thick ice lens at 0.2m. [COLLUVIUM] END OF TP @ 1.3m. REFUSAL ON FROZEN GROUND. NOTES: 1) Roots down to 0.3m. 2) No seepage. 4) Backfilled to surface.					
- -10										
	GC				INEERING INC. Client: Victoria Gold					

Pr	oiect:	Ead	le Gol	d. Site F	STU-3	Page 1 of 1				
	ojeei.	Lug		u, one r	<i>Location</i> : Stuttle Gulch	Project No. :	0792-002			
Su Co Gro Da	rvey l -ordir ound tum :	Vethenates Eleva UTM	od : Ha ; (m): 4 ation (NAD 8	andheld (159086E (m) 884 33	GPSExcavator : CAT 325B, 7100696NOperator : Larry Paulsen	Start Date : 08 Aug 09 Finish Date: 08 Aug 09 Final Depth of Pit (m) : Logged by : MRR Reviewed by : PQ	1.9			
	ype	lo.	ng Grade		Lithologic Description	Su - kPa 40 80 1 VANE FIELD LAB PEAK ← ■ REMOLD ◇ □ Δ	120 160 UC/2 Pocket Pen /2			
o Depth (m	Sample T	Sample N	Weatherin	Symbol		★ % Fines Moisture Cor W,% ×	$\frac{W_{1\%}}{W_{1}}$			
					ORGANICS Peat, dark brown, rootlets. SAND and GRAVEL (SW/GW) Some silt, trace cobbles and boulders, well graded, dense, sub max clast size 40cm, orangish brown, dry to moist, homogeno Below 0.8m - FROZEN: Vx, 1-5%. Between 1.2m and 1.6m - part of test pit comprises sandy silt gravel with some clay At 1.6m - stratified sand and gravel layers, subrounded, tan, s END OF TP @ 1.9m. REFUSAL ON FROZEN GROUND. NOTES: 1) Rootlets down to 0.4m. 2) No seepage. 3) Backfilled to surface.	rounded to angular, us. to silty sand and ome silt, Vx, 1%.				
B	GC				NEERING INC. Client: V	ctoria Gold				

Pr	oject:	: Eag	le Gol	d, Site F	acilites TEST PIT # TP-BGC09-STU-4	Page 1 of 1 Project No. : 0792-002					
Su Co Gro Da	rvey l -ordii ound tum :	Metho nates Eleva UTM	od : Ha s (m): 4 ation (NAD 8	andheld (459038E (m) 886 33	Excavator : CAT 325B GPS Excavator : CAT 325B , 7100635N Operator : Larry Paulsen	Start Date : 08 Aug 09 Finish Date: 08 Aug 09 Final Depth of Pit (m) : 2.6 Logged by : MRR Reviewed by : PQ					
o Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Description	VANE PEAK REMOLL ★ %	FiELD LAB → □ Fines Moistur 	u - kPa 120 1 ↓ UC/2 △ Pocke ↓ UC/2 △ Pocke ↓ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	60 t Pen /2 		
- 1 - 1 - 2 - 2 - 2 - 3 - 3					Peat, dark brown, trace rootlets. SILTY SAND (SM) Some organic silt, fine to medium, loose, max clast 1mm, subrounded, dark brown, FROZEN. SANDY SILT (SM) Some fine gravel (subrounded), non plastic, dark grey/orange, low dry strength, FROZEN: Vs, 20%, ice lenses 1-3mm thick. 1.5m to 2.6m - Gravel is subrounded to subangular, max clast 10 cm, FROZEN, hard digging. END OF TP @ 2.6m. REFUSAL ON FROZEN GROUND. NOTES: 1) No seepage. 2) Backfilled to surface.						
B	GC		SGC	ENG	INEERING INC. Client: Victoria Gold						

WEST HAGGART CREEK

TP-BGC09-A-3

TP-BGC09-A-4

TP-BGC09-HL4-11

TP-BGC09-HL4-12

TP-BGC09-HL4-16

TP-BGC09-HL4-17

TP-BGC09-HL4-18

Pr	oject:	: Eag	le Golo	d, Site F	Facilites TEST PIT # TP-BGC09-A-3	Page 1 of 1
Su Co Gre Da	rvey l -ordii ound tum :	Methonates Eleva	od : Ha ; (m): 4 ation (I NAD 8	andheld 58464E m) 804 33	Location : Haggart Creek GPS Excavator : CAT 325B E, 7100539N Operator : Larry Paulsen	Project No. : 0792-002 Start Date : 19 Jul 09 Finish Date: 19 Jul 09 Final Depth of Pit (m) : 5.5 Logged by : PQ Reviewed by : PQ
o Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Description	Su - kPa4080120160VANEFIELDLAB \checkmark UC/2PEAK \blacksquare \blacksquare \square \square REMOLD \diamond \square \triangle Pocket Pen /2 \bigstar % Fines $W\%$ $W\%$ $W\%$ χ_{20} 40 60 80
					Root mat. SILT (ML) Clayey, sandy, some cobbles and boulders, compact to dense, mottle brown, damp. [TILL] GRAVEL (GW) Sandy, trace silt, compact, brown. [TILL] SILT (ML) Clayey, sandy, some cobbles and boulders, compact to dense, mottle brown, damp. Material becomes sandier with depth, with cobbles and almost absent below 2.0m. [TILL] 0.9m to 1.3m - Becomes FROZEN: Vr, Vx, 5-10%, ice lenses. 4.0m - Becomes grey. 4.0m - Becomes grey. END OF TP @ 5.5m. LIMIT OF EXCAVATOR REACH. NOTES: 1) No seepage. 2) Backfilled to surface.	rd light boulders
В	G		SGC	ENG	INEERING INC. SCIENCES COMPANY	Gold

Pr	roject	: Eag	le Gol	d, Site Fa	cilites TEST PIT # TP-BGC09-A-4				Page 1 d	of 1
					Location : Heap Leach #4		Projec	:t No. : (0792-002	2
Su Cc Gr Da	orvey l o-ordii round ntum :	Meth nates Elev UTM	od : Ha s (m): 4 ation (I I NAD 8	andheld (158985E, m) 904 33	PS Excavator : CAT 325B 7100207N Operator : Larry Paulsen	Start D Finish Final D Logged Review	ate: 19 Ju Date: 19 Ju Pepth of Pi d by: PQ red by: P0	il 09 ul 09 i t (m) : 4 ຊ	1.3	
- 1 - 2 - 3 - 4 - 0 Depth (m) - 1 - 2 - 3 - 4 - 3 - 3 - 2 - 3 - 4 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3	Sample Type	Sample No.	Weathering Grade		CRGANICS Root mat, forest litter. SAND and GRAVEL (SW/GW) Trace to some silt, occasional cobbles, compact to dense, damp, brown. [COLLUVIUM] 0.9m to 1.1m - Old organic horizon. GRAVEL (GW) Sandy, trace to some silt, clasts are subrounded to subangular, randomly oriented FROZEN: Nbn, trace Vx. [COLLUVIUM] END OF TP @ 4.3m. REFUSAL ON FROZEN GROUND. NOTES: 1) Very hard digging from 1.1m to 4.3m, only progress 0.5m in 20-30 minutes. 2) Backfilled to surface.	VANE PEAK REMOL ★ % We% .	40 80 FIELD 4 0 ◇ C Fines 20 40 1 → 1 1 → 1 1 → 1 1 → 1 2 → 1 1 → 1	J Su - kPa 12 1 △ 1 △ 1 △ 1 △ 1 △ 1 △ 1 △ 1 △	0 16 UC/2 Pocket	0 Pen /2
9										

Project: Eagle Gold, Site F	acilites TEST PIT # TP-L	BGC09-HL4-11	Page 1 of 1
	<i>Location</i> : HL4 area		Project No. : 0792-002
Survey Method : Handheld Co-ordinates (m): 458652E Ground Elevation (m) 831 Datum : UTM NAD 83	GPS Excavator : CAT 3251 , 7100630N Operator : Larry Pauls	B sen	Start Date : 01 Aug 09 Finish Date: 01 Aug 09 Final Depth of Pit (m) : 1.5 Logged by : HG Reviewed by : PQ
A cathering Grade	ORGANICS/TOPSOIL Light brown silt and moss (0-0.2m); black silt , F SILT (ML) Trace clay, trace sand, silt is interbedded thin gre FROZEN:Vs, 40%. SANDY GRAVEL (GM) Some silt, well graded, FROZEN - well bonded, individual crystals and inclusions around clasts, subangular+subrounded particles, metasedimen quartz clasts (up to 6cm). [COLLUVIUM?] END OF TP @ 1.5m. REFUSAL ON FROZEN NOTES: 1) Roots down to 0.4m. 2) Sharp contact between silt and sandy gravel deposit? 3) No seepage. 4) PVC casing installed for thermistor string. 5) Backfilled to surface.	tion PROZEN: Nbn (0.2-0.4m). ey and brown layers. excess non-visible ice (Nbe), angular and tary and granodiorite present, GROUND. with silt, possibly old fluvial	Su - kPa 40 80 120 160 VANE FIELD LAB A UC/2 REMOLD O A Pocket Pen /2 * % Fines W%
- - -10			
	NEERING INC. SCIENCES COMPANY	Client: Victoria Gold	

Pro	oject:	Eag	le Gold	d, Site F	acilites TEST PIT # TP-BGC09-HL4-12	Page 1 of 1
Sui Co- Gre Dai	rvey l -ordii ound tum :	Veth nates Eleva UTM	od : Ha (m): 4 ation (I NAD 8	andheld (58884E m) 870 33	Location : HL4 area GPS Excavator : CAT 325B 7100459N Operator : Larry Paulsen	Start Date : 01 Aug 09 Finish Date: 01 Aug 09 Final Depth of Pit (m) : 1.9 Logged by : HG Reviewed by : PQ
	Sample Type	Sample No.	Weathering Grade	Symbol	CRGANICS/TOPSOIL Depth varies from 0.2-0.3m thick, brown silty soil, trace clay, thick moss and lichen cover, roots thoughout.	Su - kPa 40 80 120 160 VANE FIELD LAB UC/2 PEAK \bullet \bullet DC/2 ★ % Fines $\overset{W\%}{\times}$ $\overset{W\%}{\times}$ $\overset{W\%}{\times}$ 20 40 60 80
- 1 - 2 - 2 - 2 - 3 - 7 - 3 - 3 - 3 - 7 - 3 - 3 - 7 - 3 - 3 - 3 - 3 - 7 - 3 - 3	5	S2 S3			 SILT (ML) Some gravel, some sand, soft to firm until 0.8m, moist, no structure, weak cementation, thin zones of organics mixed in, angular and subangular metasedimentary clasts - predominantly oxide stained quartz (up to 4cm). FROZEN: Vr, 30%, trace Vx, ice lenses up to 5 cm thick. [COLLUVIUM] [GRAVEL (GM) Some silt, well graded, angular, subangular to subrounded particles, both metasedimentary and granodiorite clasts. FROZEN: Nbe. [COLLUVIUM?] END OF TP @ 1.9m. REFUSAL ON FROZEN GROUND. NOTES: 1) Roots down to 0.5m. 2) No seepage. 3) PVC casing installed for thermistor string. 4) Backfilled to surface. 	
В	G			ENG ID EARTH S	NEERING INC. Client: Victoria Gold	

Sur Co- Gro	vey l ordir	Veth			Location : Platinum Gulc	- h		Proied	+ No	0792-002	
Sur Co- Gro	vey l ordir	Neth				ch					2
Dat	ound ium :	nates Eleva UTM	od : Ha (m): 4 ation (I NAD 8	ndheld (58836E m) 865 3	GPS Excavator : CAT 325B 7100222N Operator : Larry Paulsen	1	Start Da Finish D Final De Logged Reviewe	te:02 A eate:02 A pth of P by:HG ed by:P	ມg 09 ເມg 09 i t (m) : : ຊ	2.0	
									Su - kPa		
							4	0 80	1:	20 16	0
	,pe		g Grade		Lithologic Description	n	<u>VANE</u> PEAK REMOLD	FIELD LA ♦ I ♦ C		UC/2 Pocket	Pen /2
(m) (ole Ty	ole No	hering	g			★ % F	ines			
o Depth	Samp	Samp	Weatl	Symb			₩ _₽ % — × —	Mois 0 40	ture Con W% 0 — 6	ent 08(×
0				<u>, \ </u>	ORGANICS Thick moss coverage, rootlets throughout black, mo	oist silt.					
_	*	S1			SAND (SM) Some silt, some gravel, well graded, loose to compa	act, metasedimentary clasts	0				
1 -	\$	S2		* * * * * * * * * * * * * * * * * * *	(up to 4cm), angular to subangular, brown, moist, no	o structure, weak cementation.	0				
	₹\$	S3			SAND (SM) Some silt, some gravel, trace clay, greyish-brown, a (up to 4cm). FROZEN from 0.5m: Nbe, 5-10%.	angular metasedimentary clasts	0				
_ 2	-				END OF TP @ 2.0m. REFUSAL ON FROZEN GR	ROUND.					
-					1) Roots down to 0.3m. 2) No seenage						
- 3					3) Backfilled to surface.						
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B	GC				NEERING INC.	Client: Victoria Gold					

Pre	oject:	Eaa	le Gol	d, Site F	acilites TEST PIT # TP-B	GC09-HL4-17		P	age 1 of 1
		Lug		u, one r	<i>Location</i> : Platinum Gu	lch	Proj	ject No. : 0 ⁻	792-002
Sui Co- Gro Dat	rvey l ordir ound tum :	Metho nates Eleva UTM	od : Ha (m): 4 ation (NAD 8	andheld (158655E (m) 844 33	GPS Excavator : CAT 325B 7100232N Operator : Larry Paulse	n	Start Date : 02 Finish Date: 02 Final Depth of Logged by : H Reviewed by :	Aug 09 2 Aug 09 2 Pit (m) : 1. G PQ	6
o Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Description	on	$ \begin{array}{c c} 40 \\ \hline VANE \\ PEAK \\ REMOLD \\ \star \% Fines \\ \hline W_{p\%} \\ \times \\ 20 \\ \hline \end{array} $	Su - kPa 80 120 ■ △ 10isture Conter W% 0 40 60	160 UC/2 Pocket Pen /2
	•	S1			 SILT (ML) Traces of clay, gravel and organics, very soft, grey FROZEN from 0.60m down: Nf. SAND (SM) Gravel, well graded, brown angular and subangula oxidized reddish-brown sand. FROZEN: Nbe to Vs [COLLUVIUM] END OF TP @ 1.6m. REFUSAL ON FROZEN G NOTES: Roots down to 0.3m. Some sloughing from the uphill (East) side wal ice. Seepage, likely stored moisture in moss from s PVC casing installed for thermistor string. Backfilled to surface. 	/-black, moist-wet, homogeous. ar clasts, grey lenses and s, 10-20%. ROUND. I, which had no visible ground showers the last few days.			
B	GC			ENG ED EARTH S	NEERING INC.	Client: Victoria Gold			

Pro	oject:	Eag	le Gol	d, Site F	acilites TEST PIT # TP-BGC09-HL4-18		Proje	ect No.	Page 1	of 1 02
Sui Co- Gro Dat	rvey l -ordii ound tum :	Veth nates Elev UTM	od : Ha s (m): 4 ation (NAD 8	andheld (458499E (<i>m</i>) 790 83	GPS <i>Excavator</i> : CAT 325B , 7100230N <i>Operator</i> : Larry Paulsen	Start D Finish I Final D Logged Review	ate : 03 / Date: 03 epth of / d by : HC red by : F	Aug 09 Aug 09 Pit (m) S PQ) : 4.7	
() () () () () () () () () () () () () (C Sample Type	Sample No.	Weathering Grade		ORGANICS Moss and lichen covering moist, black silty soil. SAND and GRAVEL (SM/GM) Silty, loose to compact, angular and subangular and subrounded metased clasts (up to 6cm), trace cobbles, brown, moist, interlensed with brown sandy gravel and grey silt. [COLLUV/UM?] 1.0m - Organic lens. SILT (ML) Some clay, trace gravel, trace sand, FROZEN: Vx, Vr, 30-40%, ice lenses up to 1cm thick. [COLLUV/UM?] END OF TP @ 4.7m. REFUSAL ON FROZEN GROUND. NOTES: 1) Roots down to 0.4m. 2) Sloughing from uphill side of test pit. 3) No seepage. 4) Backfilled to surface	VANE PEAK REMOLI ★ % 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40 = Fines 20	PQ Su - kF 30 	Pa 120 UC/2 Ontent 60 0 0	160 + Pen /2
- 6 - 7 - 8 - 9 - 10	G		3GC	ENG	NEERING INC. SCIENCES COMPANY					
APPENDIX B LABORATORY TEST REPORTS

N:\BGC\Projects\0792 Victoria Gold\002 Site Facilities Geotech\06 Report\main report\ 0792002 Eagle Gold SIR FINAL 1Mar10.docx

Project: Eagle Gold Project

ATTN: Heather Grinde

Project No.:

Client:

o.: W14101304

BGC Engineering Inc.

Sample No.:TPBGC09-HL5Date Tested:8/14/2009Tested By:IMPage:1 of 1

B.H. Number	Sample Number (depth)	Tare Number	Tare Mass (g)	Mass of Wet Soil & Tare (g)	Mass of Dry Soil & Tare (g)	Moisture Content (%)	Visual Description of Soil EBA Work Method WM4400
TP4-S1	0.5-0.6					12.0	SAND - sitly, some gravel
TP4-S2	2.0-2.5					9.1	SAND - sitly, some gravel
TP4-S3	4.0-4.5					6.0	Decomposed granite
TP5-S1	0.5-0.6					17.8	SAND - sitly, some gravel
TP6-S1	0.6-0.7					17.6	SILT and SAND
TP6-S2	2.0-2.5					13.9	SAND - some silt
TP6-S3	5.0-5.5					11.9	SAND and GRAVEL - trace silt
TP7-S1	0.4-0.5					17.9	SILT - some sand
TP7-S2	0.8-0.9					9,5	SAND - sitly, some gravel
TP7-S3	2.0-2.5					11.7	SAND - sitly, some gravel
TP8-S1	0.2-0.4					10.6	SILT - sand, some gravel
TP8-S2	1.5					16.7	GRAVEL and SILT - some sand
TP9-S1	0.4-0.5					29.0	SAND and SILT - trace gravel
TP10-S1	0.5					23.8	SAND - silty, some gravel, trace organics
	•						
					*******	-	
			1977 / 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.				
Tested in issued for	accordance internal use	e with AS [:] e	TM stand	ard D2216,	subject to	review .	EBA Engineering Consultants Ltd.

Project: Eagle Gold Project

Project No.:

Client:

ATTN:

W14101304

BGC Engineering Inc.

Heather Grinde

Sample No .: TPBGC09-HL4 Date Tested: Tested By: Page:

8/14/2009 IM 1 of 1

B.H. Sample Tare Tare Mass of Wet Mass of Dry Moisture Visual Description of Soil Number Number Number Mass Soil & Tare Soil & Tare Content EBA Work Method WM4400 (depth) (g) (g) (g) (%) TP1-S1 0.5 29.0 CLAY - sitly TP1-S2 1.8-1.9 18.0 CLAY - sitly TP2-S1 0.2-0.4 35.9 SAND - sitly, some gravel TP2-S2 0.6-0.7 74.8 SAND - sitly, some gravel (mostly water) TP2-S3 2.3 25.6 SILT - trace sand TP3-S1 0.4-0.5 18.6 SILT - sandy **TP3-S2** 2.5 8.8 SILT and CLAY - some sand TP3-S3 2.3 31.5 SAND and SILT - trace gravel TP4-S1 0.4-0.5 14.7 SILT and CLAY TP4-S2 1.5 10.7 SILT - trace sand TP5-S1 23.6 SAND - silty, trace gravel TP5-S2 missing. TP5-S3 10.4 SAND - sitly, some gravel TP5-S4 7.8 SAND - sitly, some gravel **TP6-S1** 10.4 SAND - gravelly, trace silt TP6-S2 5.7 SAND - sitly, some gravel TP7-S1 0.5-0.7 14.9 GRAVEL - sandy, trace silt TP7-S2 1.5-1.85 33.2 GRAVEL - sandy, trace silt 0.3-0.4 TP8-S1 92.5 SILT - sandy TP8-S2 0.7-0.8 SILT - sandy, some gravel 15.6 TP9-S1 0.8-0.9 11.2 GRAVEL - sandy, some silt TP9-S2 3.3-3.8 5.6 GRAVEL - sandy, trace silt Tested in accordance with ASTM standard D2216, subject to review . EBA Engineering issued for internal use Consultants Ltd.

Project: Eagle Gold Project

ATTN: Heather Grinde

Project No.:

Client:

W14101304

BGC Engineering Inc.

Sample No.:TPBGC0Date Tested:8/14/2009Tested By:IMPage:1 of 1

TPBGC09-WR#	
8/14/2009	
IM	
1 of 1	

B.H. Number	Sample Number (depth)	Tare Number	Tare Mass (g)	Mass of Wet Soil & Tare (g)	Mass of Dry Soil & Tare (g)	Moisture Content (%)	Visual Description of Soil EBA Work Method WM4400
TP1-S1	0.6					10.2	GRAVEL - some sand and silt
TP1-S2	5.0					8.2	GRAVEL - silty, some sand
TP1-S3	6.0					12.5	weathered bedrock
TP2-S1	0.8-0.9					9.4	GRAVEL - some sand and silt
TP2-S2	4.0					11.0	weathered bedrock
TP3-S1	2.0		·····		10-11-11-11-11-11-11-11-11-11-11-11-11-1	17.7	Decomposed granite
TP4-S1	0.5					16.8	SAND and SILT - trace gravel
TP4-S2	0.9		,_,_,_,_,_,_,_,_,_,_,_,_,_,_,_,_,			16.9	SAND - sitly, some gravel
TP5-S1	0.5					9.7	GRAVEL and SAND - some silt
TP5-S2	1.0					4.8	weathered bedrock
TP6-S1	0.9					16.2	SAND - silty, trace gravel
TP6-S2	1.0-1.2					10.2	SAND - some silt, some gravel
TP6-S3	4.0					14.7	SILT - sandy, trace gravel
TP7-S1	0.9					17.0	SAND and SILT - some gravel
TP8-S1	0.9-1.0					11.8	SAND and SILT - some gravel
TP8-S2	2.0					8.0	SAND - some silt, some gravel
TP9-S1	0.5-0.7					19.3	SAND and GRAVEL - some silt
TP9-S2	2.0-2.5					9.7	GRAVEL - some sand, some silt
			,			.	
						,	
			1.0°K and wants below & antime as a second second				
		.					
Tested in issued for	accordance internal us	e with AS` e	TM stand	ard D2216,	subject to	review .	EBA Engineering Consultants Ltd.

Project: Eagle Gold Project

ATTN: Heather Grinde

Project No.:

Client:

W14101304 BGC Engineering Inc.

TPBGC09-HL6 Sample No.: Date Tested: 8/1 Tested By: IM <u>1 o</u> Page:

4/2009	
of 1	

B.H. Number	Sample Number (depth)	Tare Number	Tare Mass (g)	Mass of Wet Soil & Tare (g)	Mass of Dry Soil & Tare (g)	Moisture Content (%)	Visual Description of Soil EBA Work Method WM4400
TP1-S1	0.5-0.6					12.9	GRAVEL - some sand, some silt
TP1-S2	2.5-3.0					15.2	SAND and SILT - trace gravel
TP1-S3	5.0-5.5					9.3	GRAVEL - some sand, some silt
TP2-S1	0.4-0.5		<u>.</u>			11.8	GRAVEL - silty, some sand
TP2-S2	1.0-11					7.9	GRAVEL - some sand, trace silt
TP3-S1	0.4-0.5					11,7	SAND and SILT - trace gravel
TP3-S1	1.0-1.2					7.9	GRAVEL - some sand, some silt
TP3-S3	2.0-2.5					9.8	SAND - gravelly, some silt
TP3-S4	5.0-5.5					7.3	GRAVEL - some sand, trace silt
TP4-S1	0.4-0.6			• • • • • • • • • • • • • • • • • • •			part of second lab program
TP4-S2	0.8-1.0						part of second lab program
TP4-S3	2.8						part of second lab program
TP4-S4	4.0-4.4						part of second lab program
				· · · ·			
Tested in issued for	accordance internal us	e with AS ⁻ e	TM stand	ard D2216,	subject to	review .	EBA Engineering Consultants Ltd.

Destact	Easta Oata	Deviewt			Osennis No.			
Project:	Eagle Gold	Project					Sample No.:	TPBGC09-P
Project N	l o.:	W14101	304		Date Tested:	8/14/2009		
Client:	BGC Engin	eering In	С.				Tested By:	СН
ATTN:	Heather Gr	inde					Page:	1 of 1
r <u> </u>	1			I			· · · · · · · · · · · · · · · · · · ·	
B.H. Number	Sample Number (depth)	Tare Number	Tare Mass (g)	Mass of Wet Soil & Tare (g)	Mass of Dry Soil & Tare (g)	Moisture Content (%)	Visual D EBA Worl	Description of Soil k Method WM4400
1-S1	0.7-0.8					10.5	GRAVEL and SAND	- silty
1-S2	2.7-3.2					5.2	GRAVEL - trace sand	, trace silt
2-S1	0.3-0.4					8.4	GRAVEL - silty sand	
2-S2	1.0-1.1		****	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		6.2	SAND and SILT - sor	ne gravel
3-S1	0.6-0.7			-		8.6	GRAVEL and SAND	- some silt
4-S1	0.9-1.0					6.8	GRAVEL - some sand	d, some silt
4-S2	1.8-2.0					6.8	GRAVEL and SAND	- trace silt
4-A-S1A	1.2					19.5	SAND - some gravel,	some silt
A-3-S1	1.0					n\a	missing	
			1 March & J. 1999, 1 M Arc March 1 March 1 1 1 and					

Tested in accordance with ASTM standard D2216, subject to review .



Project:	Eagle Gol	d Project	Sample No.:	TPBGC09-HL4		
Project I	No.:	W14101304	Date Tested:	8/14/2009		
Client:	BGC Engi	neering Inc.	Tested By:	СН		
ATTN:	Heather G	rinde	Page:	1 of 1		
	- <u>0</u>					

TP10-S1 0.5-0.6 12.8 SAND and SILT - some gravel TP10-S2 3.0-3.4 12.6 GRAVEL and SILT - some sand TP10-S3 5.0-5.5 9.4 GRAVEL and SILT - some sand TP10-S4 6.5 14.0 SAND and SILT - trace gravel TP11-S1 0.4-0.6 57.8 ORGANICS and SILT TP11-S2 0.9-1.1 11.8 weathered bedrock, some sand, some silt TP12-S1 0.3-0.4 18.5 SAND and SILT - trace gravel TP12-S2 1.0-1.1 53.1 SILT - trace sand TP12-S3 1.3-1.4 51.4 SAND and SILT - some gravel TP13-S1 0.4-0.5 13.2 SILT - trace sand TP13-S2 0.9-1.0 83.2 SILT - trace sand TP13-S3 1.3-1.5 14.8 GRAVEL and SAND - some silt TP13-S2 0.9-1.0 83.2 SILT - some sand, visible organics TP14-S1 0.7-0.8 25.7 SAND and SILT TP14-S2 1.5 33.5 SILT - some sand, visible organics TP14-S1 0.7-0.8 25.9 SAND and SILT TP16-S2	B.H. Number	Sample Number (depth)	Tare Number	Tare Mass (g)	Mass of Wet Soil & Tare (g)	Mass of Dry Soil & Tare (g)	Moisture Content (%)	Visual Description of Soil EBA Work Method WM4400
TP10-S2 3.0-3.4 12.6 GRAVEL and SILT - some sand TP10-S3 5.0-5.5 9.4 GRAVEL and SILT - some sand TP10-S4 6.5 14.0 SAND and SILT - trace gravel TP11-S1 0.4-0.6 57.8 ORGANICS and SILT TP11-S2 0.9-1.1 11.8 weathered bedrock, some sand, some silt TP12-S1 0.3-0.4 18.5 SAND and SILT - trace gravel TP12-S2 1.0.1.1 53.1 SILT - trace gravel TP12-S3 1.3.1.4 61.4 SAND and SILT - some gravel TP13-S1 0.4-0.5 13.2 SILT - trace gravel TP13-S2 0.9-1.0 63.2 SILT - trace sand TP13-S3 1.3.1.5 14.8 GRAVEL and SAND - some silt TP14-S2 1.5 33.5 SILT - some sand, visible organics TP14-S2 0.7-0.8 25.7 SAND and SILT some sand TP14-S2 0.5 33.5 SILT - some sand, visible organics TP14-S2 0.5 13.2 SILT - trace gravel TP14-S2 0.5 13.2 SILT - trace gravel	TP10-S1	0.5-0.6					12.8	SAND and SILT - some gravel
TP10-S3 6.0-5.5 9.4 GRAVEL and SILT - some sand TP10-S4 6.5 14.0 SAND and SILT - trace gravel TP11-S1 0.4-0.6 57.8 ORGANICS and SILT TP11-S2 0.9-1.1 11.8 weathered bedrock, some sand, some silt TP12-S1 0.3-0.4 18.5 SAND and SILT - trace gravel TP12-S2 1.0-1.1 53.1 SILT - trace gravel TP12-S3 1.3-1.4 51.4 SAND and SILT - some gravel TP13-S1 0.4-0.5 13.2 SILT - trace sand TP13-S2 0.9-1.0 63.2 SILT - trace sand TP13-S2 0.9-1.0 63.2 SILT - trace sand TP13-S3 1.3-1.5 14.8 GRAVEL and SAND - some silt TP14-S1 0.7-0.8 25.7 SAND and SILT - some gravel TP14-S2 1.5 33.5 SILT - some sand, visible organics TP15-S1 0.2-0.3 25.9 SAND and SILT TP16-S2 0.9-1.0 12.3 SAND and SILT TP16-S2 0.9-1.0 13.4 SAND and SILT TP16-S3 1.8-2.0 <t< td=""><td>TP10-S2</td><td>3.0-3.4</td><td></td><td></td><td></td><td></td><td>12.6</td><td>GRAVEL and SILT - some sand</td></t<>	TP10-S2	3.0-3.4					12.6	GRAVEL and SILT - some sand
TP10-S4 6.5 14.0 SAND and SILT - trace gravel TP11-S1 0.4-0.6 57.8 ORGANICS and SILT TP11-S2 0.9-1.1 11.8 weathered bedrock, some sand, some silt TP12-S1 0.3-0.4 18.5 SAND and SILT - trace gravel TP12-S2 1.0-1.1 53.1 SILT - trace sand TP12-S2 1.0-1.1 53.1 SILT - trace sand TP13-S3 1.3-1.4 51.4 SAND and SILT - some gravel TP13-S2 0.9-1.0 83.2 SILT - trace sand TP13-S3 1.3-1.5 14.8 GRAVEL and SAND - some silt TP14-S1 0.7-0.8 25.7 SAND and SILT - some gravel TP14-S1 0.7-0.8 25.9 SAND and SILT - trace gravel TP14-S2 0.5 13.2 SILT - some sand, visible organics TP14-S1 0.7-0.8 25.9 SAND and SILT - trace gravel TP15-S1 0.2-0.3 25.9 SAND and SILT - trace gravel TP16-S2 0.9-1.0 12.3 SAND and SILT - trace gravel TP16-S2 0.9-1.0 13.4 SAND and SILT - trace gravel <tr< td=""><td>TP10-S3</td><td>5.0-5.5</td><td></td><td></td><td></td><td></td><td>9.4</td><td>GRAVEL and SILT - some sand</td></tr<>	TP10-S3	5.0-5.5					9.4	GRAVEL and SILT - some sand
TP11-S1 0.4-0.6 57.8 ORGANICS and SILT TP11-S2 0.9-1.1 11.8 weathered bedrock, some sand, some silt TP12-S1 0.3-0.4 18.5 SAND and SILT - trace gravel TP12-S2 1.0-1.1 53.1 SILT - trace sand TP12-S3 1.3-1.4 51.4 SAND and SILT - some gravel TP13-S1 0.4-0.5 13.2 SILT - trace sand TP13-S2 0.9-1.0 83.2 SILT - trace sand TP13-S3 1.3-1.5 14.8 GRAVEL and SAND - some silt TP13-S3 1.3-1.5 14.8 GRAVEL and SAND - some silt TP14-S1 0.7-0.8 25.7 SAND and SILT - some gravel TP14-S2 1.5 33.5 SILT - some sand, visible organics TP14-S1 0.7-0.8 25.9 SAND and SILT TP15-S1 0.2-0.3 25.9 SAND and SILT TP16-S2 0.9-1.0 12.3 SAND and SILT TP16-S2 0.9-1.0 13.4 SAND and SILT TP16-S2 0.9-1.0 13.4 SAND and SILT TP16-S3 1.8-2.0 15.6	TP10-S4	6.5					14.0	SAND and SILT - trace gravel
TP11-S2 0.9-1.1 11.8 weathered bedrock, some sand, some silt TP12-S1 0.3-0.4 18.5 SAND and SILT - trace gravel TP12-S2 1.0-1.1 53.1 SILT - trace sand TP12-S3 1.3-1.4 51.4 SAND and SILT - some gravel TP13-S1 0.4-0.5 13.2 SILT - trace sand, trace gravel TP13-S2 0.9-1.0 83.2 SILT - trace sand TP13-S3 1.3.1.5 14.8 GRAVEL and SAND - some silt TP14-S1 0.7-0.8 25.7 SAND and SILT - some gravel TP14-S2 1.5 33.5 SILT - some sand, visible organics TP15-S1 0.2-0.3 26.9 SAND and SILT TP16-S1 0.4-0.5 13.2 SILT - trace gravel TP16-S2 0.9-1.0 12.3 SAND and SILT TP16-S2 0.9-1.0 13.4 SAND and SILT TP16-S2 0.9-1.0 13.2 SILT - trace gravel TP16-S3 1.8-2.0 15.6 SILT - trace sand TP16-S3 1.8-2.0 15.6 SILT - some gravel TP17-S1 0.3-0.5 <	TP11-S1	0.4-0.6				1998 1997 1997 1997 1997 1997 1997 1997	57.8	ORGANICS and SILT
TP12-S1 0.3-0.4 18.5 SAND and SILT - trace gravel TP12-S2 1.0-1.1 53.1 SILT - trace sand TP12-S3 1.3-1.4 51.4 SAND and SILT - some gravel TP13-S1 0.4-0.5 13.2 SILT - trace sand, trace gravel TP13-S2 0.9-1.0 83.2 SILT - trace sand TP13-S3 1.3-1.5 14.8 GRAVEL and SAND - some silt TP14-S1 0.7-0.8 25.7 SAND and SILT - some gravel TP14-S2 1.5 33.5 SILT - some sand, visible organics TP15-S1 0.2-0.3 25.9 SAND and SILT TP15-S2 0.9-1.0 12.3 SAND and SILT TP15-S2 0.9-1.0 12.3 SAND and SILT TP15-S2 0.9-1.0 12.3 SAND and SILT TP16-S3 1.8-2.0 13.4 SAND and SILT TP16-S2 0.9-1.0 13.4 SAND and SILT TP16-S3 1.8-2.0 15.6 SILT - trace sand TP17-S1 0.3-0.5 80.4 ORGANICS and SILT TP17-S2 0.7-0.8 20.3 SILT - some sand	TP11-S2	0.9-1.1					11.8	weathered bedrock, some sand, some silt
TP12-S2 1.0-1.1 53.1 SILT - trace sand TP12-S3 1.3-1.4 51.4 SAND and SILT - some gravel TP13-S1 0.4-0.5 13.2 SILT - trace sand, trace gravel TP13-S2 0.9-1.0 83.2 SILT - trace sand TP13-S3 1.3-1.5 14.8 GRAVEL and SAND - some silt TP14-S1 0.7-0.8 25.7 SAND and SILT - some gravel TP14-S2 1.5 33.5 SILT - some sand, visible organics TP15-S1 0.2-0.3 25.9 SAND and SILT TP15-S2 0.9-1.0 12.3 SAND and SILT TP15-S2 0.9-1.0 12.3 SAND and SILT TP15-S2 0.9-1.0 12.3 SAND and SILT TP16-S1 0.4-0.5 13.2 SILT - trace sand TP16-S2 0.9-1.0 13.4 SAND and SILT TP16-S3 1.8-2.0 15.6 SILT - trace sand TP17-S1 0.3-0.5 80.4 ORGANICS and SILT TP17-S24 0.7-0.8 20.3 SILT - some gravel TP17-S25 0.7-0.8 6.1 SAND and SILT - some	TP12-S1	0.3-0.4					18.5	SAND and SILT - trace gravel
TP12-S3 1.3-1.4 51.4 SAND and SILT - some gravel TP13-S1 0.4-0.5 13.2 SILT - trace sand, trace gravel TP13-S2 0.9-1.0 83.2 SILT - trace sand TP13-S3 1.3-1.5 14.8 GRAVEL and SAND - some silt TP14-S1 0.7-0.8 25.7 SAND and SILT - some gravel TP14-S2 1.5 33.5 SILT - some sand, visible organics TP15-S1 0.2-0.3 25.9 SAND and SILT TP16-S1 0.4-0.5 12.3 SAND and SILT TP16-S2 0.9-1.0 12.3 SAND and SILT TP16-S2 0.9-1.0 12.3 SAND and SILT TP16-S2 0.9-1.0 13.4 SAND and SILT TP17-S1 0.3-0.5 80.4 ORGANICS and SILT	TP12-S2	1.0-1.1					53.1	SILT - trace sand
TP13-S1 0.4-0.5 13.2 SILT - trace sand, trace gravel TP13-S2 0.9-1.0 83.2 SILT - trace sand TP13-S3 1.3-1.5 14.8 GRAVEL and SAND - some silt TP14-S1 0.7-0.8 25.7 SAND and SILT - some gravel TP14-S2 1.5 33.5 SILT - some sand, visible organics TP15-S1 0.2-0.3 25.9 SAND and SILT TP16-S2 0.9-1.0 12.3 SAND and SILT - trace gravel TP16-S2 0.9-1.0 13.2 SILT - trace sand TP16-S2 0.9-1.0 13.2 SILT - trace sand TP16-S2 0.9-1.0 13.4 SAND and SILT TP17-S1 0.3-0.5 80.4 ORGANICS and SILT TP17-S2 0.7-0.8 20.3 SILT - some sand TP17-S2 0.7-0.8 9.6 SAND and SILT - some gravel<	TP12-S3	1.3-1.4					51.4	SAND and SILT - some gravel
TP13-S2 0.9-1.0 83.2 SILT - trace sand TP13-S3 1.3-1.5 14.8 GRAVEL and SAND - some silt TP14-S1 0.7-0.8 25.7 SAND and SILT - some gravel TP14-S2 1.5 33.5 SILT - some sand, visible organics TP14-S2 1.5 33.5 SILT - some sand, visible organics TP15-S1 0.2-0.3 25.9 SAND and SILT TP15-S2 0.9-1.0 12.3 SAND and SILT - trace gravel TP16-S1 0.4-0.5 13.2 SILT - trace sand TP16-S2 0.9-1.0 13.4 SAND and SILT TP16-S3 1.8-2.0 15.6 SILT - trace sand TP17-S1 0.3-0.5 80.4 ORGANICS and SILT TP17-S2 0.7-0.8 20.3 SILT - some gravel TP17-S28 0.7-0.8 20.3 SILT - some gravel TP18-S2 1.1-1.2 6.1 SAND and SILT - some gravel TP18-S2 1.1-1.2 6.1 SAND and SILT - some gravel TP18-S3 1.6-1.8 6.4 GRAVEL and SAND - some silt TP18-S4 2.0-2.4 8	TP13-S1	0.4-0.5		:			13.2	SILT - trace sand, trace gravel
TP13-S3 1.3-1.5 14.8 GRAVEL and SAND - some silt TP14-S1 0.7-0.8 25.7 SAND and SILT - some gravel TP14-S2 1.5 33.5 SILT - some sand, visible organics TP15-S1 0.2-0.3 25.9 SAND and SILT TP15-S2 0.9-1.0 12.3 SAND and SILT - trace gravel TP16-S1 0.4-0.5 13.2 SILT - trace sand TP16-S2 0.9-1.0 13.4 SAND and SILT TP16-S3 1.8-2.0 15.6 SILT - trace sand, trace gravel TP17-S1 0.3-0.5 80.4 ORGANICS and SILT TP17-S28 0.7-0.8 20.3 SILT - some gravel TP18-S1 0.3-0.4 9.6 SAND and SILT - some gravel TP18-S2 1.1-1.2 6.1 SAND and SILT - some gravel TP18-S3 1.6-1.8 6.4 GRAVEL and SAND - some silt TP18-S4 2.0-2.4 8.6 SILT - trace sand TP18-S5 3.5-4.0 64.3 SILT - trace sand	TP13-S2	0.9-1.0					83.2	SILT - trace sand
TP14-S1 0.7-0.8 25.7 SAND and SILT - some gravel TP14-S2 1.5 33.5 SILT - some sand, visible organics TP15-S1 0.2-0.3 25.9 SAND and SILT TP15-S2 0.9-1.0 12.3 SAND and SILT - trace gravel TP16-S1 0.4-0.5 13.2 SILT - trace sand TP16-S2 0.9-1.0 13.4 SAND and SILT TP16-S3 1.8-2.0 15.6 SILT - trace sand, trace gravel TP17-S1 0.3-0.5 80.4 ORGANICS and SILT TP17-S2 0.7-0.8 20.3 SILT - some sand TP18-S2 1.1-1.2 6.1 SAND and SILT - some gravel TP18-S2 1.1-1.2 6.1 SAND and SILT - some gravel TP18-S3 1.6-1.8 6.4 GRAVEL and SAND - some silt TP18-S4 2.0-2.4 8.6 SILT - trace sand	TP13-S3	1.3-1.5					14.8	GRAVEL and SAND - some silt
TP14-S2 1.5 33.5 SILT - some sand, visible organics TP15-S1 0.2-0.3 25.9 SAND and SILT TP15-S2 0.9-1.0 12.3 SAND and SILT - trace gravel TP16-S1 0.4-0.5 13.2 SILT - trace sand TP16-S2 0.9-1.0 13.4 SAND and SILT TP16-S2 0.9-1.0 13.4 SAND and SILT TP16-S2 0.9-1.0 13.4 SAND and SILT TP16-S3 1.8-2.0 15.6 SILT - trace sand, trace gravel TP17-S1 0.3-0.5 80.4 ORGANICS and SILT TP17-S2A 0.7-0.8 20.3 SILT - some sand TP17-S2B 0.7-0.8 16.9 SAND and SILT - some gravel TP18-S1 0.3-0.4 9.6 SAND and SILT - some gravel TP18-S2 1.1-1.2 6.1 SAND and SILT - some gravel TP18-S3 1.6-1.8 6.4 GRAVEL and SAND - some silt TP18-S4 2.0-2.4 8.6 SILT - trace sand TP18-S5 3.5-4.0 64.3 SILT and CLAY	TP14-S1	0.7-0.8					25.7	SAND and SILT - some gravel
TP15-S1 0.2-0.3 25.9 SAND and SILT TP15-S2 0.9-1.0 12.3 SAND and SILT - trace gravel TP16-S1 0.4-0.5 13.2 SILT - trace sand TP16-S2 0.9-1.0 13.4 SAND and SILT TP16-S2 0.9-1.0 13.4 SAND and SILT TP16-S2 0.9-1.0 13.4 SAND and SILT TP16-S3 1.8-2.0 15.6 SILT - trace sand, trace gravel TP17-S1 0.3-0.5 80.4 ORGANICS and SILT TP17-S2A 0.7-0.8 20.3 SILT - some sand TP17-S2B 0.7-0.8 16.9 SAND and SILT - some gravel TP18-S1 0.3-0.4 9.6 SAND and SILT - some gravel TP18-S2 1.1-1.2 6.1 SAND and SILT - some gravel TP18-S2 1.6-1.8 6.4 GRAVEL and SAND - some silt TP18-S3 1.6-1.8 6.4 SILT - trace sand TP18-S3 3.5-4.0 64.3 SILT and CLAY	TP14-S2	1.5					33.5	SILT - some sand, visible organics
TP15-S2 0.9-1.0 12.3 SAND and SILT - trace gravel TP16-S1 0.4-0.5 13.2 SILT - trace sand TP16-S2 0.9-1.0 13.4 SAND and SILT TP16-S3 1.8-2.0 15.6 SILT - trace sand, trace gravel TP17-S1 0.3-0.5 80.4 ORGANICS and SILT TP17-s28 0.7-0.8 20.3 SILT - some sand TP18-S1 0.3-0.4 9.6 SAND and SILT - some gravel TP18-S2 1.1-1.2 6.1 SAND and SILT - some gravel TP18-S3 1.6-1.8 6.4 GRAVEL and SAND - some silt TP18-S4 2.0-2.4 8.6 SILT - trace sand	TP15-S1	0.2-0.3		177,112,57,612,715,612,715,600,000,000			25.9	SAND and SILT
TP16-S1 0.4-0.5 13.2 SILT - trace sand TP16-S2 0.9-1.0 13.4 SAND and SILT TP16-S3 1.8-2.0 15.6 SILT - trace sand, trace gravel TP17-S1 0.3-0.5 80.4 ORGANICS and SILT TP17-S2A 0.7-0.8 20.3 SILT - some sand TP17-S2B 0.7-0.8 16.9 SAND and SILT - some gravel TP18-S1 0.3-0.4 9.6 SAND and SILT - some gravel TP18-S2 1.1-1.2 6.1 SAND and SILT - some gravel TP18-S3 1.6-1.8 6.4 GRAVEL and SAND - some silt TP18-S4 2.0-2.4 8.6 SILT - trace sand TP18-S5 3.5-4.0 64.3 SILT - trace sand	TP15-S2	0.9-1.0					12.3	SAND and SILT - trace gravel
TP16-S2 0.9-1.0 13.4 SAND and SILT TP16-S3 1.8-2.0 15.6 SILT - trace sand, trace gravel TP17-S1 0.3-0.5 80.4 ORGANICS and SILT TP17-S2A 0.7-0.8 20.3 SILT - some sand TP17-S2B 0.7-0.8 16.9 SAND and SILT - some gravel TP18-S1 0.3-0.4 9.6 SAND and SILT - some gravel TP18-S2 1.1-1.2 6.1 SAND and SILT - some gravel TP18-S3 1.6-1.8 6.4 GRAVEL and SAND - some silt TP18-S4 2.0-2.4 8.6 SILT - trace sand TP18-S5 3.5-4.0 64.3 SILT and CLAY	TP16-S1	0.4-0.5					13.2	SILT - trace sand
TP16-S31.8-2.015.6SILT - trace sand, trace gravelTP17-S10.3-0.580.4ORGANICS and SILTTP17-S2A0.7-0.820.3SILT - some sandTP17-S2B0.7-0.816.9SAND and SILT - some gravelTP18-S10.3-0.49.6SAND and SILT - some gravelTP18-S21.1-1.26.1SAND and SILT - some gravelTP18-S31.6-1.86.4GRAVEL and SAND - some siltTP18-S42.0-2.48.6SILT - trace sandTP18-S53.5-4.064.3SILT and CLAY	TP16-S2	0.9-1.0					13.4	SAND and SILT
TP17-S1 0.3-0.5 80.4 ORGANICS and SILT TP17-S2A 0.7-0.8 20.3 SILT - some sand TP17-S2B 0.7-0.8 16.9 SAND and SILT - some gravel TP18-S1 0.3-0.4 9.6 SAND and SILT - some gravel TP18-S2 1.1-1.2 6.1 SAND and SILT - some gravel TP18-S3 1.6-1.8 6.4 GRAVEL and SAND - some silt TP18-S4 2.0-2.4 8.6 SILT - trace sand TP18-S5 3.5-4.0 64.3 SILT and CLAY	TP16-S3	1.8-2.0					15.6	SILT - trace sand, trace gravel
TP17-S2A 0.7-0.8 20.3 SILT - some sand TP17-S2B 0.7-0.8 16.9 SAND and SILT - some gravel TP18-S1 0.3-0.4 9.6 SAND and SILT - some gravel TP18-S2 1.1-1.2 6.1 SAND and SILT - some gravel TP18-S3 1.6-1.8 6.4 GRAVEL and SAND - some silt TP18-S4 2.0-2.4 8.6 SILT - trace sand TP18-S5 3.5-4.0 64.3 SILT and CLAY	TP17-S1	0.3-0.5					80.4	ORGANICS and SILT
TP17-S2B0.7-0.816.9SAND and SILT - some gravelTP18-S10.3-0.49.6SAND and SILT - some gravelTP18-S21.1-1.26.1SAND and SILT - some gravelTP18-S31.6-1.86.4GRAVEL and SAND - some siltTP18-S42.0-2.48.6SILT - trace sandTP18-S53.5-4.064.3SILT and CLAY	TP17-S2A	0.7-0.8					20.3	SILT - some sand
TP18-S10.3-0.49.6SAND and SILT - some gravelTP18-S21.1-1.26.1SAND and SILT - some gravelTP18-S31.6-1.86.4GRAVEL and SAND - some siltTP18-S42.0-2.48.6SILT - trace sandTP18-S53.5-4.064.3SILT and CLAY	TP17-S28	0.7-0.8					16.9	SAND and SILT - some gravel
TP18-S2 1.1-1.2 6.1 SAND and SILT - some gravel TP18-S3 1.6-1.8 6.4 GRAVEL and SAND - some silt TP18-S4 2.0-2.4 8.6 SILT - trace sand TP18-S5 3.5-4.0 64.3 SILT and CLAY	TP18-S1	0.3-0,4					9.6	SAND and SILT - some gravel
TP18-S3 1.6-1.8 6.4 GRAVEL and SAND - some silt TP18-S4 2.0-2.4 8.6 SILT - trace sand TP18-S5 3.5-4.0 64.3 SILT and CLAY	TP18-S2	1.1-1.2					6.1	SAND and SILT - some gravel
TP18-S4 2.0-2.4 8.6 SILT - trace sand TP18-S5 3.5-4.0 64.3 SILT and CLAY	TP18-S3	1.6-1.8	1				6.4	GRAVEL and SAND - some silt
TP18-S5 3.5-4.0 64.3 SILT and CLAY	TP18-S4	2.0-2.4					8.6	SILT - trace sand
	TP18-S5	3.5-4.0					64.3	SILT and CLAY

Project:	Eagle Gold	Project			Sample No.: TPBGC09-HL5			
Project N	lo.:	W14101	304				Date Tested:	8/14/2009
Client:	BGC Engin	eering Ind	C.				Tested By:	СН
ATTN:	Heather Gr	inde			Page:	<u>1 of 1</u>		
B.H. Number	Sample Number (depth)	Tare Number	Tare Mass (g)	Mass of Wet Soil & Tare (g)	Mass of Dry Soil & Tare (g)	Moisture Content (%)	Visual I EBA Wor	Description of Soil k Method WM4400
TP3-S1	1					8.8	GRAVEL and SAND	- some silt
TP3-S2	1.5					10.7	GRAVEL and SAND	- some silt
TP3-S3	1.8					7.9	SAND - some gravel,	some silt
Tested in	accordance	e with AS	TM stand	dard D2216	, subject to) review .	:	EBA Engineering Consultants Ltd.

Project:	Eagle Gold	Project			Sample No.:	TPBGC09-HL6		
Project N	0.:	W14101	304		Date Tested:	8/14/2009		
Client:	BGC Engin	eering Ind	D		Tested By:	СН		
ATTN:	Heather Gr	inde			Page:	<u>1 of 1</u>		
B.H. Number	Sample Number (depth)	Tare Number	Tare Mass (g)	Mass of Wet Soil & Tare (g)	Mass of Dry Soil & Tare (g)	Moisture Content (%)	Visual I EBA Wor	Description of Soil k Method WM4400
TP4-S1	0.4-0.6					3.9	SAND - some gravel,	some silt
TP4-S2	0.8-1.0					3.8	GRAVEL and SAND	- some silt
TP4-S3	2.5					11.2	SAND and SILT - trac	ce gravel
TP4-S4	4.0-4.4					6.3	GRAVEL and SAND	- some silt
TP5-S1	0.3-0.4					12.1	SAND and GRAVEL	- some silt
TP5-S2	0.9-1.0					7.0	SAND and GRAVEL	- some silt
TP5-S3	3.5-4.0					5.1	SAND and GRAVEL	- some silt
TP6-S1	0.3-0.4					13.8	SILT - trace sand	
TP6-S2	1.0-1.2					12.6	SAND and SILT - tra	ce gravel
TP7-S1	0.2-0.3					13.3	SAND and SILT - tra	ce gravel
TP7-S2	0.8-0.9					11.0	SAND and SILT - trac	ce gravel
TP7-S3	2.0-2.5					8.6	SAND and GRAVEL	- some silt
TP8-S1	0.3					246.4	Orgsnics, silt (?)	
TP8-S2	1.0					13.6	SAND and SILT - sor	me gravel
TP8-S3	2.0-2.4					13.4	SILT - some sand, tra	ace gravel
TP9-S1	0.3-0.4			~		13.2	SAND and GRAVEL	- some silt
TP9-S2	0.9-1.1					11.8	SAND and GRAVEL	- some silt
TP10-S1	0.2-0.4				****	17.1	SAND - some gravel	, some silt w/ organics
TP10-S2	0.8-0.9					10.6	SAND - some gravel	, some silt
TP10-S3	2.2-2.7					10.6	SILT and decompose	ed bedrock
Tested in	accordance	e with AS	TM stan	dard D2216	, subject to	o review .		EBA Engineering

Project:	Eagle Gold	Project	Sample No.:	TPBGC09-HL6
Project N	lo.:	W14101304	Date Tested:	9/2/2009
Client:	BGC Engin	eering Inc.	Tested By:	СН
ATTN:	Heather Gr	nde	Page:	1 of 1

B.H. Number	Sample Number	Tare Number	Tare	Mass of Wet	Mass of Dry	Moisture Contont	Visual Description of Soil
Humber	(depth)	Humber	(g)	(g)	(g)	(%)	EBA Work Method WM4400
TP11-S1			11.9	635.0	558.7	14.0	GRAVEL - Silty, some sand
TP12-S1			16.5	692.0	630.8	10.0	SAND and GRAVEL - some silt
TP12-S2			11.6	555.7	506.8	9.9	SAND and GRAVEL - trace silt
TP13-S1			17.8	575.8	533.6	8.2	GRAVEL - Silty, some sand
TP14-S1			12.1	646.5	560.9	15.6	SAND and GRAVEL - silty
TP14-S2			12.2	567.2	495.6	14.8	SAND and GRAVEL - silty
TP15-S1	·····		15.4	622.7	551.9	13.2	SAND and SILT - some gravel
TP15-S2			14.9	538.2	463.1	16.8	SILT - trace sand
TP16-S1			11.5	628.6	570.0	10.5	GRAVEL - Silty, some sand
TP17-S1	,		12.9	618.4	590.9	4.8	SAND and GRAVEL - some silt
		•					
			***			** / • ****	
					5 5 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		

Tested in a	accordance	e with AS	TM stand	ard D2216	, subject to	review .	

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roject I	NO.:	<u>vv14101</u>	304					9/2/2009		
lient:	BGC Engir	neering In	C.		·····		Tested By:	CH		
TTN:	Heather G	rinde					Page:	<u>1 of 1</u>		
B.H. Number	Sample Number (depth)	Tare Number	Tare Mass (g)	Mass of Wet Mass of Dry Soil & Tare Soil & Tare (g) (g)		Moisture Content (%)	Visual EBA Woi	Description of Soil rk Method WM4400		
DH3	15-20ft		18.5	295.8	284.5	4.2	SAND			
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										
21 Martin (1997) - 19		1								

Project:	Eagle Gold	Project					Sample No.:	TPBGC09-STU
Project N	lo.:	W14101	304				Date Tested:	9/2/2009
Client:	BGC Engin	eering In	с.				Tested By:	СН
ATTN:	Heather Gr	inde					Page:	<u>1 of 1</u>
B.H. Number	Sample Number (depth)	Tare Number	Tare Mass (g)	Mass of Wet Soil & Tare (g)	Mass of Dry Soil & Tare (g)	Moisture Content (%)	Visual I EBA Wori	Description of Soil k Method WM4400
TP3-S1			12.7	586.3	524.6	12.1	SAND and GRAVEL	- some silt
TP3-S2			11.4	602.6	516.1	17.1	SILT - trace sand and	gravel
TP4-S1			392.4	1572.8	930.6	119.3	SILT - trace sand	
TP4-S2			404.0	1444.7	1263.3	21.1	SILT - some sand	
DH3	5-10ft		16.7	403.1	335.5	21.2	SILT - trace sand	
DH3	25-30ft		16.7	581.6	510.9	14,3	SILT and SAND	********
DH3	30-35ft						missing	
DH3	45-50ft		15.3	601.2	532.7	13.2	SAND and GRAVEL	- silty
DH3	60-70ft		14.8	260.3	229.0	14.6	SILT - trace sand	
DH4	5-10ft		12.7	478.0	425.9	12.6	SAND and GRAVEL	- silty
DH4	25-30ft		16.6	486.4	386.6	27.0	SILT - trace sand and	gravel
DH4	50-60ft		16.8	829.2	722.1	15.2	SAND and SILT - trac	ce gravel
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Tested in	accordance	e with AS	TM stanc	lard D2216	, subject to	review .		

Project:	Eagle Gold	Project					Sample No.:	TPBGC09-D6
Project N	lo.:	W14101	304				Date Tested:	9/2/2009
Client:	BGC Engin	eering In	с.				Tested By:	СН
ATTN:	Heather Gr	inde					Page:	<u>1 of 1</u>
B.H. Number	Sample Number (depth)	Tare Number	Tare Mass (g)	Mass of Wet Soil & Tare (g)	Mass of Dry Soil & Tare (g)	Moisture Content (%)	Visual [EBA Wor	Description of Soil k Method WM4400
TP1-S1			11.6	658.9	601.7	9.7	GRAVEL - silty, some	esand
TP1-S2			15.3	765.9	728.5	5.2	SILT and SAND - sor	ne gravel
TP3-S1			14.7	671.7	488.5	38.7	SAND and SILT	
TP3-S2			11.5	529.1	495.2	7.0	SAND and GRAVEL	- some silt
TP4-S1			15.0	579.8	444.5	31.5	SILT - trace sand	199 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
TP4-S2			14.5	551.6	435.9	27.5	SILT	
TP3-S2			11.5	529.1	495.2	7.0	SAND and GRAVEL	- some silt
DH1	15-20ft		18.1	470.7	419.7	12.7	SILT - trace sand and	l gravel
DH2	5-10ft		15.5	579.0	519.0	11.9	SAND and SILT - trac	e gravel
DH2	25-30ft		12.2	659.0	566.1	16.8	SAND and SILT	
DH3	5-10ft		14.5	622.7	499.5	25.4	SILT - some sand	
DH3	20-25ft		16.9	558.5	491.4	14.1	SILT - some sand	
DH7	10-15ft		12.1	437.1	385.3	13.9	SAND and GRAVEL	- silty
DH7	20-25ft		17.0	276.3	229.9	21.8	SILT - trace sand and	gravel
DH7	40-45ft		11.6	512.0	436.5	17.8	SILT	
DH7	50-60ft		11.8	422.8	362.9	17.1	SILT	
DH7	60-65ft		17.1	149.7	131.3	16.1	SAND - silty	
······								NAN TENENAN ANNA ANNA ANNA ANTANA
							·····	
Tested in	accordance	e with AS	TM stand	lard D2216	, subject to	review.	r	



Project:	Eagle Gold	l Project					Sample No.:	TPBGC09-HL1
Project N	No.:	W14101	1304				Date Tested:	9/2/2009
Client:	BGC Engir	neering In	С.	·······			Tested By:	СН
ATTN:	Heather G	rinde					Page:	1 of 1
B.H. Number	Sample Number (depth)	Tare Number	Tare Mass (g)	Mass of Wet Soil & Tare (g)	Mass of Dry Soil & Tare (g)	Moisture Content (%)	Visual I EBA Wor	Description of Soil k Method WM4400
TP1-S1	-		12.2	854.6	777.0	10.1	GRAVEL - silty, some	e sand
TP2-S1			14.9	837.0	752.3	11.5	SILT and SAND - sor	ne gravel
TP2-S2			12.2	375.1	290.5	30.4	SILT - trace sand and	l gravel
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Tested ir	n accordanc	e with AS	TM stand	dard D2216	, subject to	review .	E	EBA Engineering Consultants Ltd.

Project:	Eagle Gold	Project					Sample No.:	TPBGC09-HL6
Project N	lo.:	W14101	304		······		Date Tested:	9/2/2009
Client:	BGC Engin	eering In	с.				Tested By:	СН
ATTN:	Heather Gr	inde					Page:	1 of 1
B.H. Number	Sample Number (depth)	Tare Number	Tare Mass (g)	Mass of Wet Soil & Tare (g)	Mass of Dry Soil & Tare (g)	Moisture Content (%)	Visual [EBA Worl	Description of Soil k Method WM4400
TP11-S1			11.9	635.0	558.7	14.0	GRAVEL - Silty, some	e sand
TP12-S1			16.5	692.0	630.8	10.0	SAND and GRAVEL	- some silt
TP12-S2			11.6	555.7	506.8	9.9	SAND and GRAVEL	- trace silt
TP13-S1			17.8	575.8	533.6	8.2	GRAVEL - Silty, some	e sand
TP14-S1			12.1	646.5	560.9	15.6	SAND and GRAVEL	- silty
TP14-S2			12.2	567.2	495.6	14.8	SAND and GRAVEL	- silty
TP15-S1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	15.4	622.7	551.9	13.2	SAND and SILT - son	ne gravel
TP15-S2			14.9	538.2	463.1	16.8	SILT - trace sand	
TP16-S1			11.5	628.6	570.0	10.5	GRAVEL - Silty, some	e sand
TP17-S1			12.9	618.4	590.9	4.8	SAND and GRAVEL	- some silt
							1997 - Carl Maria Maria Maria Maria Maria Maria Maria Manazaria (Maria Maria Maria Maria Maria Maria Maria Mari	
								97 TT 1678111781 A.S. S. DAVYSAN, J. 201117781 Vol. Non-stranding and a strand to be a straight of the straight
Tested in	accordance	with AS	TM stand	lard D2216,	subject to	review .	E	BA Engineering

	PARTICLE SIZE ANALYSIS TEST REPORT
Project: Project No.: Site:	ASTM D422 & C136 Eagle Gold Project Client: BGC Engineering Inc. W14101304 Client Rep.: Heather Grinde
Material Type: Sample No.: Sample Loc.; Sample Depth: Sampling Metho Date sampled:	HL5-4-S1 Date Tested: 17-Sep-2009 By: IM 0.5 - 0.6 m Soil Description ² : GRAVEL - silty, sandy uSC Classification: Cu: cc: Cc: By: Moisture Content: 17.0
Particle Size Percent	Sand Gravel Fine Medium Coarse Fine Cobble
300 200 150 100 75 100 50 100 38 94 25 69 19 66 12.5 64 10 62 5 58 2 50 0.85 43 0.425 40 0.25 38 0.15 37 0.075 34	200 100 60 40 30 20 10 100 60 40 30 20 10 10 60 40 30 20 10 10 60 40 30 20 10 10 60 40 30 20 10 10 60 40 30 20 10 10 60 40 40 40 40 40 40 40 40 40 4
Notes: Specification: Remarks:	¹ The upper clay size of 2 um, per the Canadian Foundation Engineering Manual ² The description is visually based & subject to EBA description protocols ³ If cobbles are present, sampling procedure may not meet ASTM C702 & D75
	Reviewed By: MacCe

Data presented hereon is for the sole use of the stipulated client. EBA is not responsible, nor can be held table, for use made of this report by any other party, with or without the knowledge of EBA. The testing services reported herein have been performed by an EBA technician to recognized industry standards, unless otherwise noted. No other warrantly is made. These data do not include or represent any interpretation or opinion of specification compliance or material suitability. Should engineering interpretation be required, EBA will provide it upon written request



			P	ARTICLES	SIZE A	NALYSIS T	EST RE	PORT			
					AS	TM D422 & C136					
Project: Project No Site:	9.1	Eag W1₄	le Gold Proj 4101304	ect		Client: Client I	Rep.:	BGC Er Heathei	ngineering I ^r Grinde	nc.	
Material Ty Sample No Sample Lo Sample De Sampling N Date samp	ype: o.: oc.: epth: Methoo oled:	WR 2 - 2 d:	-9-S2 2.5 m	By:		Date T Soil De USC Cl Moistur	ested: escription ² lassificatio e Content:	12-Sep- 3: GRAVE n: 7.9	-2009 :L - sandy, s	By: some silt Cu: Cc:	IM
······											
Particle Size Pe (mm) Pa	ercent assing		Fine	Sand Medium		Coarse	F	Gravel	Coarse	Col	oble
300		-	0 100	60 40 20	20 10	10 8	4 2407	1/2" 3/4" 1" 15" 2" 3" 4"			
200 150 100 75 50 38 25 19 12.5 10 5 2 0.85 0.425 0.25 0.15 0.075	100 100 77 73 69 58 51 40 32 26 22 20 18 16	000 000 000 000 000 000 000 000	0 100 			10 8	10 8 4 3/8"		1/2" 3/4" 1" 1.5" 2" Image: Solid Description Solid Description Clay1 & 16 Silt Solid Description Image: Solid Description Solid Description Solid Description Solid Description Image: Solid Description Solid Description Solid Description Solid Description Image: Solid Description Solid Description Solid Description Solid Description Image: Solid Description Solid Description Solid Description Solid Description Image: Solid Description Solid Description Solid Description Solid Description Image: Solid Description Solid Description Solid Description Solid Description Image: Solid Description Solid Description Solid Description Solid Description Image: Solid Description Solid Description Solid Description Solid Description Image: Solid Description Solid Description Solid Description Solid Description Image: Solid Description Solid Description Solid Description Solid Description		8° 52°
Notes: Specificati Remarks:	ion:	¹ The u ² The d ³ If cobl	ipper clay size lescription is vi bles are prese	of 2 um, per the sually based & s nt, sampling pro	canadia subject to cedure r	an Foundation Er o EBA description may not meet AS	ngineering M n protocols TM C702 &	Manual : D75			
						Rev	iewed By	:: <u>_C</u> ll	eed C	\sim	

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	DADTICI E SIZE ANALVEIS TEST DEDODT
	ANTIGEL SIZE ANALISISTE ENTREPONT
Project: Project No <i>.:</i> Site:	Eagle Gold ProjectClient:BGC Engineering Inc.W14101304Client Rep.:Heather Grinde
Material Type: Sample No.: Sample Loc.: Sample Depth: Sampling Method Date sampled:	HL6-6-S2 Date Tested: 17-Sep-2009 By: IM Soil Description ² : GRAVEL - silty, sandy USC Classification: Cu: Cc: By: Moisture Content: 0.6
Particle	Sand Gravel
Size Percent (mm) Passing	Fine Medium Coarse Fine Coarse Cobble
300 200 150 100 75 100 50 100 38 86 25 69 19 12.5 10 66 5 62 2 56 0.85 50 0.425 46 0.25 44 0.15 40 0.075 32	100 60 40 30 20 16 10 8 4 38 1/2 34 17 15 2 3 4 6 8 1/2 100 60 40 30 20 16 10 8 4 38 1/2 34 17 15 2 3 4 6 8 1/2 100 60 40 30 20 16 10 8 4 38 1/2 34 17 15 2 3 4 6 8 1/2 100 60 40 40 40 40 40 40 40 40 40 40 40 40 40
Notes: Specification: Remarks:	¹ The upper clay size of 2 um, per the Canadian Foundation Engineering Manual ² The description is visually based & subject to EBA description protocols ³ If cobbles are present, sampling procedure may not meet ASTM C702 & D75

Data presented hereon is for the sole use of the stipulated client. EBA is not responsible, nor can be held liable, for use made of this report by any other party, with or without the knowledge of EBA. The testing services reported herein have been parformed by an EBA technician to recognized industry standards, unless otherwise noted. No other warranty is made. These data do not include or represent any interpretation or opinion of specification compliance or material suitability. Should engineering interpretation be required, EBA will provide it upon written request





				PA	ARTI(CLE S	SIZE A	NAL	YSIS T	EST RI	ËPC	DRT				
^o roject: ^o roject	No.:	Eagl W14	e Gold 101304	Proje 4	ct		AS	TM D422	Client: Client: Client f	Rep.:	B H	GC Ei leathe	ngine r Grin	ering Ir Ide	łC.	
Site: Material Sample	l Type: No.:	HL6-	4-S4						Date T Soil De	ested: escription	1 1²: G	7-Sep SRAVE	-2009 EL AN) ID SAN	By: ID - trace	IM e silt
Sample Sample Samplir	Loc.: Depth: ng Method	4 - 4 d:	4 - 4.4 m					USC Classification: Cu: Cc:								
)ate sa	mpled:	BA:						Moistur	e Content	t: 5	.5					
>article Size (mm)	Percent Passing		Fin	ie		Sand Medium		Co	arse		Fine	Gravel	(Coarse	Co	obbie
300 200 150		200 100	11	00 6	50 4	0 30	20 16	10	8	4 3/8"	1/2"	3/4"	r 13	5° 2"	3' 4' 1	5 8 12
100 75 50		90 80													~~~~~	
38 25 19	100 91 83	70 50 50														
12.5 10 5	74 68 50	CENT PASSI							/							
2 0.85 0.425	34 22 16	30 J														
0.25 0.15 0.075	13 10 8	20 -										s	oil Des lav ¹ &	scription	Proportion	<u>is (%):</u>
		10) 15 0	125 0	425	0.85	2	4	.75 9.5	12.5	S S	ilt and	8 43 7.5 50	Gravel Cobble ³	0 150 30
		0.07						- Pi	ARTICLE SI	ZE (mm)						
								· · ·								
lotes:		¹ The up ² The do ³ If cobb	oper cla escriptic ples are	y size c on is vis presen	of 2 um sually b nt, samp	, per the ased & : pling pro	e Canadi subject f ocedure	ian Fou to EBA may no	ndation E descriptio t meet AS	ngineering n protocol STM C702	i Man s & D7	iual 75				
pecifi	cation:															
Remarl	<s:< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></s:<>															
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and and an and a second se			F	PARTI	CLE SIZ	E ANA	LYSIS T	EST RE	PORT		
Project: Project Site:	No.:	Eagl W14	e Gold Pro 101304	ject			Client: Client F	(ep.:	BGC En Heather	gineering In Grinde	C.
Material Sample Sample Sample Samplin Date sa	. Type: No.: Loc.: Depth: ig Metho mpled:	HL4-6-S2 3 - 3.5 m od: By:					Date Tested: 17-Sep-2009 By: IM Soil Description ² : GRAVEL AND SAND - some silt USC Classification: Cu: Cc: Moisture Content: 10.1				
Particle		F	Sand						Gravel	······	
Size (mm)	Percent Passing		Fine		Medium		Coarse	Fir	1e	Coarse	Cobble
200 150 100 75 50 38 25 19 12.5 10 5 2 0.85 0.425 0.25 0.15 0.075	100 100 74 71 71 67 55 41 30 24 21 18 15	200 90 90 70 00 80 00 80 00 40 90 00 40 20 40 10 10 10 10 10 10 10 10 10 10 10 10 10	100	0.25 0	425 0.8	5	2 4.	3/8	Sc 12.5 19 2	1.5 2	270portions (%): Gravel 45 Cobble ³ 0 75 150 30
Notes: Specific	cation:	¹ The up ² The de ³ If cobb	pper clay size escription is bles are pres	e of 2 um visually b ent, sam	n, per the Ca based & sub pling proces	anadian Fo ject to EB/ dure may r	undation Er A description not meet AS	ngineering M n protocols TM C702 &	Aanual D75		
Remarks:											
							Rev	iewed By	:_ <u>[]</u>	hal I	2

Project: E Project No.: V Site: Material Type: Sample No.: V Sample Loc.: C Sample Depth: Sampling Method: Date sampled: Particle Size Particle Size (mm) Passing 300 200 150 100 75 50 38 100 25 95 19 92 22 24 25 92	Eagle Gold Project W14101304 WR-7-S1 0.9 m : Fine 100 90 80 80	D 40 30 20 1	Client: Client F Date T Soil De USC Cl Moistur	Rep.: I ested: scription ² : assification: e Content: Fine	BGC Engii Heather G 17-Sep-20 SAND ANI 7.3 Gravel	neering Inc rinde 09 H D GRAVE (((Coarse	C. By: IM L - some silt Cu: Cc: Cobble
Material Type: Sample No.: V Sample Loc.: C Sample Depth: Sampling Method: Date sampled: Particle Size Particle Size (mm) Passing 300 200 150 100 75 50 38 100 25 95 19 92 20 12.5 84	WR-7-S1 0.9 m : Fine 100 90 80	By: Sand Medium	Date T Soil De USC Cl Moistur	ested: escription ² : s assification: e Content: Fine 4 3/8 1/2	17-Sep-20 SAND ANI 7.3 Gravel	09 I D GRAVE ((Coarse	By: IM L - some silt Cu: Cc: Cobble
Particle Size Percent (mm) Passing 300 200 150 150 100 75 50 38 100 25 95 19 92 00 20 25 84	Fine 200 100 60 100 90 80	Sand Medium	Coarse	Fine	Gravel	Coarse	Сорріе
Size Percent (mm) Passing 300 200 150 100 75 50 38 100 25 95 19 92 0 12.5 84 100	Fine 200 100 60 100 90 80	Medium	Coarse	Fine		Coarse	CODDie
300 200 150 100 75 50 38 100 25 95 19 92 12 84	200 100 60 100 90 80		6 10 8	4 3/8~ 1//			
10 77 State State 10 77 Land State 2 47 State State 0.85 35 State State 0.425 28 State State 0.25 25 State State 0.15 23 State State 0.075 19 State State	70 90 10 0.075 0.15 0.20 0.075 0.15 0.20	25 0.425 0.85	2 4 PARTICLE SI	75 9.5 12 ZE (mm)	2 3/4" 1" Soil C Clay ¹ Silt Sand 5 19 25	1.5° 2° 3	4 6 8"
lotes: ¹ T ² T ³ If Specification: Remarks:	The upper clay size of The description is visu If cobbles are present	f 2 um, per the Canar ually based & subject t, sampling procedure	dian Foundation E t to EBA descriptio e may not meet AS	ngineering Ma n protocols TM C702 & D	nual 75		

any one party, which which a he however to be the early struct repricto here in the early photometry in Excerning and the recognized industry standards, unless otherwise notes. No other warranty is made. These data do not include or represent any interpretation or opinion of specification compliance or material suitability. Should engineering interpretation be required, EBA will provide it upon written request

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		PA		ANALYSIS 1	EST RE	PORT			
⊃roject: ⊃roject No.: Site:	Eag W14	ile Gold Proje 4101304	ot	Client: Client	Client: BGC Engineering Inc. Client Rep.: Heather Grinde				
Material Type: Sample No.: Sample Loc.: Sample Depth: Sampling Meth Date sampled:	P2-{ 1.0 -	S2 - 1.1 m	By:	ested: escription ² : lassification e Content:	17-Sep-2009 By: IM C GRAVEL - silty, sandy n: Cu: Cc: 6.6				
Parlicle			Sand						
Size Percent (mm) Passing		Fine	Medium	Coarse	Fir	ne	Coarse	Cobble	
300 200 150 100 75 50 100 38 80 25 76 19 75 12.5 71 10 69 5 62 2 56 0.85 49 0.425 45 0.25 42 0.15 38 0.075 33	200 100 - 02 - 07 - 08 - 08 	0 100 6		10 8	4 3/8"	1/2" 3/4" 1 3/4" 1 Solution	1.5° 2° 2 1.6° 2° 2° 2° 2° 2° 2° 2° 2° 2° 2° 2° 2° 2°	r 4' 5' 8' 12	
lotes: Specification: Remarks:	¹ The L ² The c ³ If cob	upper clay size o description is vis obles are presen	f 2 um, per the Cana ually based & subjec t, sampling procedur	dian Foundation E t to EBA descriptic e may not meet AS	ngineering M n protocols STM C702 &	1anual D75	 //		

		_				ASTN D							
Project: Project Site:	No.:	Eagl W14	le Gold Pro 1101304	ject			Clien Clien	it: it Rep).:	BGC Engine Heather Grin	ering Inc. de		
Material Sample Sample	Type: No.: Loc.:	HL4	-3-83				Date Soil I	Teste Descr	ed: iption ² :	17-Sep-2009 SILT - some) By: clay, trace	sand	CH
Sample	Depth:						USC	Class	ification:		Cu		
Samplin	g Metho	d:		-				-		24.0	Cc:		
Jate sa	mpled:			Ву:			Moist	ure Co	ontent:	34.6			
Particle		ſ							Sand			Gravel	
Size (mm)	Percent Passing		Clay		Silt		Fir	ne	Medium	Coarse	Fine		Coarse
75	100					400	200 1	00 60	40 30 2	20 16 10 8	4 3/8" 1/2"	3/4" 1"	1.5" 2"
50	100	100 (· · · · · · · · · · · · · · · · · · ·				/						
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12.5	100	80								<u> </u>			
10	100					Y							
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2	100	ŋ				/							
0.85	100	NISS NISS						$\uparrow \uparrow \uparrow$					
0.425	100	L PA											
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0.0238	58.4	30						++					
0.0177	43.6				111								
0.0111	৩৩.7 28.7	20		Л									
0.0059	20.7 24.3	10			ЦЩ					Soil Des	scription Prop	portion	s (%):
0.0031	16.3									Clay'	13 Sar 86 Gra	na Wel	1 ^
0.0013	10.9	0	05 0 001 0 00	2 0.004		0.037	0.075	0.15 0.2	5 0.425 /	2	4.75 9.5 12.5	5 19 25	37.5 50
		0.00		L 0.000	0.01	0.037	PARTICLE	SIZE (n	nm)				
lotes:		¹ The u ² The d	pper clay size escription is	e of 2 um, /isually ba	per the ised & s	Canadían F⊢ ubject to EB	oundation A descrip	Engin tion pr	eering Ma otocols	nual			
pecific	ation:												
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recognized industry standards, unless otherwise noted. No other warranty is made. These data do not include or ropresent any interpretation or opinion of specification compliance or material suitability. Should engineering interpretation be required, EBA will provide it upon written request



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Project: Project Site:	No.:	Eagl W14	le Gold Pro 1101304	ject			Client: Client Re	ep.:	BGC I Heath	Enginee er Grinc	ering I de	nc.	
Material Sample Sample Sample Samplin Date sa	Type: No.: Loc.: Depth: g Metho mpled:	HL6 d:	-3-S1	By:			Date Tes Soil Desc USC Clas Moisture	sted: cription ² : ssification Content:	17-Se SILT a trace of 22.2	p-2009 and GR/ clay	AVEL	By: - sandy Cu: Cc:	СН
Particle Size (mm)	Percent Passing	[Clay		Silt		Fine	San Mediu	iđ m	Coarse		Grave Fine	Coarse
75	100					400	200 100	60 40 30	20 16	10 8	4 3/	8" 1/2" 3/4" 1	1" 1.5" 2" 3'
50	100	100			,,,,,	Ī				11	1		
38	100	00					1				Ì		
25	83	50											
19	82	80										/	1
14.0	70											ИТ	
5	68	70										1	
2	60	6									1		
- 0.85	54	NIS 60								/			
0.425	48	PAS											
0.25	44	ENT											
0.15	42							T					ļļ.
0.075	39	L.											
0.0292	23.3	30											
0.0198	17.9					Λ							
0.0120	13.8	20							· · · · · ·				
0.0087	11.4									Soil Desc	cription	Proportio	ns (%):
0.0063	9.0 6.3	10								Clay	5	Sand	29
0.0031	0.5 4.8	0								Silt	33	Gravel	33
0.0010	1.0	0.00	05 0.001 0.002	2 0.005	0.01	0.037 0	0.075 0.15 (0.25 0.425	0.85	2 .	4.75	3.5 12.5 19 2	25 37.5 50 7
						F#		. (1111)					
Notes:		¹ The u ² The de	pper clay size escription is v	e of 2 um, p risually bas	er the Canad ed & subject	dian Fou to EBA	ndation Eng descríption (ineering N protocols	lanual				
Specific	ation:												
Remark	s:												
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Project: Project Site:	No.:	Eagl W14	le Gold Pro 1101304	ject			Client: Client Re	ep.:	BGC Heath	Enginee her Grind	ring Inc. Ie		
Material Sample Sample Sample Samplin Date sa	Type: No.: Loc.: Depth: g Metho mpled:	HL6 d:	-10-S2	By:			Date Te: Soil Des USC Clas Moisture	sted: cription ² : ssification Content:	21-Se SILT trace	ep-2009 AND GF clay	By AVEL - Ct	y: sandy u: p:	СН
Particle Size (mm)	Percent Passing	[Clay		Silt		Fine	San Mediur	d m	Coarse	Fin	Gravel e	Coarse
75 50 38 25 19 12.5 10 5 2 0.85 0.425 0.25 0.425 0.25 0.15 0.0341 0.0221 0.0022 0.0065 0.0032 0.0014	100 100 92 87 81 78 63 49 46 44 42 41 36 7.3 5.3 4.4 3.6 2.9 1.9 1.5	100 90 80 70 50 50 50 50 50 50 50 50 50 50 50 50 50		0.005	0.01	400 20	0 100	60 40 30	20 16	10 8	4 3/8" 1/	2" 3/4" 1"	<u>1.5' 2' 3'</u> <u>5 37.5 50 75</u>
Notes: Specific Remark	ation:	¹ The up ² The de	oper clay size	of 2 um, pe isually base	r the Canad	dian Found t to EBA d	dation Eng	ineering M protocols	anual				
	-						Revie	wed By:		Ka	n el	l	

Data presenteo neteon is for the sole use of the spluated client. EAX is not responsible, not can be net illiable, for use index of this report by any other parky, with or without the knowledge of EBA. The testing services reported herein have been performed by an EB4 technician to recognized industry standards, unless otherwise noted. No other warranty is mode. These data do not include or represent any interpretation or opixion of specification comphance or material suitability. Should engineering interpretation be required, EBA will provide it upon written request



V				PARTI	CLES	ASTM D	ALYSIS TI 422 & C136	EST RE	PORT			
Project: Project Site:	No.:	Eagl W14	e Gold Pro 101304	ject			Client: Client R	ep.:	BGC E Heathe	Engineeri er Grinde	ing Inc. 9	
Material Sample Sample Sample Samplin	Type: No.: Loc.: Depth: g Metho	HL.5- d:	-7-S3				Date Te Soil Des USC Cla	ested: scription ² essificatio	17-Sej SILT - trace c	o-2009 gravelly Iay	By: and sandy Cu: Cc:	СН
Date sa	mpled:			By:			Moisture	Content:	13.8			
Particle Size (mm)	Percent Passing		Clay		Silt		Fine	Sa Medi	um	Coarse	Gra Fine	Coarse
75 50	100 100	100				400	200 100	60 40 3	0 20 16	1084	3/8" 1/2" 3/4	" 1" 1.5" 2" :
38	84				11111							
25		90										/
19	83											
12.5	80	80										
10	78											
5	75	70										
2	69	9 2 60							\swarrow	_		
0.85	61	ASS										
0.425	56 50	H 50										
0.25	53	CEI										
0.15	49 45	Ha 40 -										
0.0275	31.5	30										
0.0186	26.0	30										
0.0114	20.5	20										
0.0084	16.8									<u>i</u> Soil Descri	ntion Proport	ions (%):
0.0061	13.3	10				·····				Clay ¹	6 Sand	30
0.0031	8.9									Silt	38 Gravel	25
0.0013	4.8	0.00	05 0.001 0.00	20.00	5 0.01	0.037	0.075 0.15	0.25 0.425	0.85	2 4.7	5 9.5 12.5 11	9 25 37.5 50
							PARTICLE SIZ	E (៣៣)				
lotes:		¹ The up ² The de	oper clay size escription is v	of 2 um isually b	i, per the G ased & si	Canadian F ubject to EE	oundation En	gineering I protocols	Manual			
Specific	ation:											
Remark	s:											
										1		7
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recognized industry standards, unless otherwise noted. No other warranty is made. These data do not include or represent any interpretation or opinion of specification compliance or material suitability. Should engineering interpretation be required, EBA will provide it upon written request.

Consultants Ltd.



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^p roject: ^p roject No.: Site:	Eagl W14	le Gold Pro 1101304	ject		Client: Client Re	Е эр.: Н	BGC Enginee leather Grinc	ring Inc. Ie		
Material Type: Sample No.: Sample Loc.: Sample Depth: Sampling Meth Date sampled:	HL4 od:	-16-S3	By:		Date Tes Soil Des USC Clas Moisture	sted: cription ² : S ti ssification: Content: 1	GILT - gravell race clay .5	By: y, some s Cu: Cc	and	
Particle Size Percen (mm) Passing		Clay		Silt	Fine	Sand Medium	Coarse	Fine	Gravel Co.	arse
75 100 50 100 38 90 25 87 19 84 12.5 80 10 78 5 71 2 65 0.85 61 0.425 58 0.25 56 0.15 55 0.075 51 0.0295 24.4 0.0209 14.1 0.0126 9.6 0.0091 7.7 0.0064 6.1 0.0013 2.6	000 00 00 00 00 00 00 00 00 00 00 00 00		2 0.005		200 100	60 40 30 20	16 10 8 1 1 1	4 3/6 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	3/4" 1" 1.5"	2 3
Notes: Specification:	¹ The u ² The d	pper clay size	e of 2 um, pe visually base	r the Canadian d & subject to E	Foundation Eng BA description	ineering Mar protocols	nual			
Remarks:		······			Revie	wed By:	Pha	10	7	

	a an	e transfer F	PARTIC	LE SIZE A	NALYSIS TE M D422 & C136	ST REPOR	रा		
Project: Project No.: Site:	Eag W14	le Gold Pro 4101304	ject		Client: Client Re	BG ep.: He	C Engineer ather Grind	ing Inc. e	
Material Type: Sample No.: Sample Loc.: Sample Depth: Sampling Meth Date sampled:	HL4 od:	-12-S3	By:		Date Tes Soil Desc USC Clas Moisture (ited: 17- cription ² : SA sification: Content: 0.6	Sep-2009 ND - silty, g	By: gravelly, trace Cu: Cc:	CH clay
Datiala									
Size Percen (mm) Passing	t	Clay		Silt	Fine	Medium	Coarse	Fine	Coarse
75 100 50 100 38 97 25 93 19 86 12.5 81 10 76 5 68 2 60 0.85 51 0.425 40 0.15 37 0.075 33 0.0312 18.2 0.0126 8.6 0.0090 7.1 0.0064 5.4 0.0014 2.4	000 00 00 00 00 00 00 00 00 00 00		2 0.005		00 200 100 6	30 40 30 20 1	IG 10 8	3/8" 1/2" 3/4" 1	1.5° 2° 3° 1.5°
√otes: ∋pecification: Remarks:	¹ The u ² The d	pper clay size	of 2 um, p isually bas	er the Canadia ed & subject to	n Foundation Engi	neering Manua protocols			

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				PAR	ПС	LE	ASTM D	422 A	SIS I C136			UR			· · ·			
Project: Project Site:	No.:	Eag W14	le Gold Pro 1101304	oject			70 M	((Client: Client I	Rep).:	BGC Heat	Enginee her Grine	ering de	Inc.			
Material Sample Sample Sample	Type: No.: Loc.: Depth:	WR	- 4 -S1					C S L	Date T Soil De JSC Cl	este escr	ed: iption ² : ification:	17-S SILT	ep-2009 - graveli	ly, sa	By: ndy, tr Cu:	ace	CH clay	
Samplin Date sa	g Metho mpled:	d:		Ву	<i>r</i> :			N	Noistur	e C	ontent:	4.8			Cc:			
Particle Size (mm)	Percent Passing		Clay				Silt	-	Fine		Sano Mediun	ı n	Coarse		G Fine	iravel	Coars	;e
75	100	100					400	200	100	60	40 30	20 16	10 8	4 :	3/8" 1/2" (3/4" 1"	1.5" 2"	• 3
50	100	100						ſ									\prod	
ა ბ ეგ	001	90			\prod	Щ]							
20 10	00 97															М		
125	77	80													/	1.		
10	74														И			
5	66	70													4			
2	60	(n)												1				
0.85	56	NIS 60				┼┼┼										╶┼╍┼		
0 425	52	PAS										-						
0.25	50	1N 20				\dagger						•••						
0.15	48	L RCE						\mathbf{A}										
0.075	44	4					/	/	1									
0.0274	27.4	30					/											
0.0193	19.7																	
0.0118	15.0	20										<u> </u>				_		·····
0.0086	11.8												Soil Des	1 Crintio	1 Propo	rtions	5 (%) [.]	٦
0.0062	8.8	10				H							Clay	4	Sand		22	-
0.0032	5.0												Silt	41	Grav	el	34	
0.0013	2.9	0.00	05 0.001 0.00	2 0	.005	0.0	0.037	0.07	5 0.15	0.25	0.425	0.85	2	4.75	9.5 12.5	19 25	37.5 5	0 1
								PARI	TICLE SI	ZE (n	າ m)							
lotes:		¹ The u ² The d	pper clay size escription is v	e of 2 u visually	ım, p / bas	er f æd	the Canadian Fo & subject to EB	ounda A dea	ation Er scriptio	ngine n pre	eering Ma btocols	anual						
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	1.511.713			PARTIC	CLE	SIZE A	NAL'	YSIS & C135	TE	ST F	REP	ORT					
Project: Project Site:	No.:	Eagl W14	le Gold Pro 1101304	ject		ASII	<i>«</i> i <i>U</i> 422	Client Client	:: : Rej	p.:	E	3GC Ieath	Enginee ier Grino	ering l de	nc.		
Material Sample Sample Sample Samplir	l Type: No.: Loc.: Depth: ng Metho moled:	HL4 3 - 3 d:	-10-S2 3.4 m	Bv [.]				Date Soil D USC (Test)esc Class	ted: riptic sifica	1 on²: S tion: nt [,] 1	17-Se SAND race	ep-2009) - some clay	e grav	By: rel and Cu: Cc:	d silt	СН
	mpieu.							wost				·····					
Particle Size (mm)	Percent Passing		Clay			Silt		Fine	e	N	Sand ledium		Coarse		Fine	Gravel	Coarse
75		100				41	00 2	00 10	0 6	0 40	30 20	0 16	10 8	4 3	/8" 1/2"	3/4" 1"	1.5" 2"
50	100	100]]]			$ \rangle$	\square
25	96	90										Į				4	
19	90 90													-	TI		
12.5	89	80											\square				
10	89																
5	85	70			++++				\			1					
2	81	9										V					
0.85	61	AISS S			$\uparrow \uparrow \uparrow$		1				/	1					
0.425	46	A T 20									/	ļ					
0.25	38	CEN									/						
0.15	31	й Ца 40														-+-+	
0.075	22																
0.0319	19.2	30	1997 T		++++		-	/	(+				-	
0.0204	17.0	20						\checkmark									
0.0088	12.4	20					T							1			. (9())
0.0063	10.4	10			44							ļ	Clav ¹	criptior 7	n Propo Sanu	anoinc 4	5 (%): 63
0.0031	8.4												Silt	, 15	Grav	u /el	15
0.0013	6.4	0 L 0.00	105 0.001 0.00	2 0.005	0.01	0.	i 037 0	075 0.	l 15 0.	25 0.4	25 O.	.85	2	4.75	9.5 12.5	19 25	37.5 50
							PA	RTICLE	SIZE ((mm)							
Notes:		¹ The u ² The d	pper clay size escription is v	e of 2 um visually b	, per th ased &	ne Canadia & subject to	n Four EBA ເ	dation lescript	Engii ion p	neerir rotoc	ng Mar ols	nual					
Specifi	cation:																
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								Re	viev	wed	By:		0 K) Geel	2 (2	
						<u> </u>					• -						

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APPENDIX C BOREHOLE LOGS

N:\BGC\Projects\0792 Victoria Gold\002 Site Facilities Geotech\06 Report\main report\ 0792002 Eagle Gold SIR FINAL 1Mar10.docx

Project: Eagle Gold, Site Facilites

DRILL HOLE # DH-BGC09-AG-3

Location : Ann Gulch

Project No. : 0792-002

Page 1 of 3

Survey Method : Handheld GPS Co-ordinates (m): 459,479.E, 7,101,319.N Ground Elevation (m): 900.0 Datum : UTM NAD 83 Dip (degrees from horizontal) : Direction : n/a

Drill Designation : Pioneer 2 Drilling Contractor : Aggressive Driling Drill Method : Solid Stem Auger/HQ3 Core : HQ3 Fluid : polymer Cased To (m) : Casing :

Start Date : 23 Aug 09 Finish Date: 23 Aug 09 Final Depth of Hole (m): 13.7 Depth to Top of Rock (m) : 7.60 Logged by : MRR Reviewed by : PQ

									_		_				Su -	kPa			
				e				S	50mr	Pa)	00mr		40		80	12	20	160	
		n.		Grad		Lithologic Description		betail	ber 1	on (k	oer 3	PEAK		<u>€LD</u> ♦ ♦			Po	;/2 cket F	'en /2
	Ê	Type	Р	ring				ent D	SWS	⁻ ricti	swc p	Hyo	★ % I	-ines m/sec)	···.			T (blow	s/300mm)
	oth (r	nple	nple	athe	lođi			rume	BIG	T-T F	TBIC	10 ⁻⁸	10 ⁻⁶	10-4	10 ⁻²	Moist	SF ture Co	ontent &	3/300mm) SPT N
	Dep	Sar	Sar	We	Syr			Inst	SP	SP	B	Cor 20	re Rec 40	overy 60	80	×— 20	0 40	0 — - 0 60	× 80
	0				<u></u>	ORGANICS Peat dark brown silty rootlets													
-	- -					SANDY SILT Non plastic, frozen, hard, brown, laminated, rapid d	ilatancy, trace												
	1 -					[ORGANIC]													
-	- - 2 -					SAND and GRAVEL (SW/GW) Fine to coarse, some silt, trace clay, trace cobble, v particle 0.25m, subrounded to subangular, brown, r metasedimentary and quartz clasts, homogeneous. [COLLUVIUM]	ery dense, max noist,												
-	_																		
	— 3 - -					SILTY SAND (SP) Fine to medium, some gravel, dense, max particle s subrounded to angular, brown, dry, homogeneous.	size 10cm,												
-	-																		
-	4 																		
	-																		
-	— 5 -																		
-	-																		
-	- 6																		
-	-																		
-																			
-	- 7																		
F	-					7.60m - Switch from solid stem auger drilling to dia	mond driling.					\vdash							
-	- 8					Rock encountered at 7.60 m depth. See DH-BGC09-AG-3 rock log.													
ŀ	-																		
60	-																		
3DT 10/2/0	- 9 -																		
3PJ BGC.	-																		
2-002_03.0	- —10-																		
SOIL) 079.																			
ERAL BGC (R	G	ſ	3G(IGINEERING INC.	Client: Victo	ria Go	bld										
GEN			- I A	IN APP	LIEDEA	KTH SCIENCES COMPANY													

Pro	oject:	: Eag	le Golo	d, Site	Facilites DRILL HOLE Location : Ani	E # DH-BGC09-AG-3 n Gulch				Proje	ect No	Pa	ge 2 o 92-002	f 3
Sur Co- Gro Dat Dip Dire	vey l ordir ound tum : (deg ectio	It Eagle Gold, Site Facilites DRILL HOL Location : A Description in Account of the second index (m) : 459,479,E, 7,101,319,N d Elevation (m) : 900.0 : UTM NAD 83 segrees from horizontal) : -90 or Casing : Drill Design Drill Method Fluid : polynt Casing : i		GPS Drill Designat Ø.E, 7,101,319.N Drilling Contr 0.0 Drill Method : Core : HQ3 Core : HQ3 htal) : -90 Fluid : polyme Casing : C	<i>tion</i> : Pioneer 2 <i>actor</i> : Aggressive Driling Solid Stem Auger/HQ3 r <i>cased To (m)</i> :		S F E L F	itart Da inish I inal D opth t oggeo Review	ate: 23 / Date: 23 epth of I o Top o I by: MF ed by: F	Aug 09 Aug 09 Hole : f Rock R R PQ	9 13.7 ((m) 1	7.60		
수 Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Descrip	otion	Instrument Details	+ Cc 10 ⁻ Re 20	lydraulic onductivit m/sec ⁸ 10 ⁻⁶ 1 Core scovery % RQD % 40 0	y y o ⁴ 10 ⁻² 	50 	UCS) 100 ■ F ◇ T R) 40	int Loa MR 60	200 id
- 1 - 2 - 3 - 4 - 5 - 6					0 to 7.60 m - See DH-BGC	09-AG-3 soil log.								
- 8				· > > > > > > > > > > > > > > > > > > >	METASEDIMENTARY (Quartzite) Greyish pink, medium grained, foliated, sli weak, broken rock, sand and gravel, trace joints iron stained.	ghtly to moderately weathered, silt infill, joints rough planar,								
				>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		un.								
·10-	1	1	1	1	(Continued on next	page)					<u> </u>			
B	G			ENG	INEERING INC.	Client: Victoria Gold								
Pr	oject	: Eag	le Gol	d, Site	Facilites DRILL HOLE Location : Ann	# DH-BGC09-AG-3 Gulch				Pro	ject N	P lo.: 07	age 3 792-00	of 3 2
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Su Co Gr Da Dij Dij	rvey ordi ound tum : o (deg rectio	Meth nates Elev UTN grees n :	od :Ha s (m) : ation (I NAD 8 s from 1	ndheld 459,479 (m) : 90 33 horizor	GPSDrill Designation9.E, 7,101,319.NDrilling Contra0.0Drill Method ::Core : HQ3Core : HQ3Intal) : -90Fluid : polymerCasing :Ca	on : Pioneer 2 ctor : Aggressive Driling Solid Stem Auger/HQ3 ased To (m) :		S F L L F	Start D Finish Final D Depth Loggeo Review	ate: 23 Date: 23 Tepth of to Top d by: N red by:	Aug (3 Aug 7 Hole of Roo IRR PQ)9 09 : 13.7 c k (m)	: 7.60)
; Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Descript	ion	Instrument Details	+ Cd 10 - - - - - - - - - - - - - - - - - -	Hydraulic onductiv m/sec * 10 ⁻⁶ Core ecovery RQD %	; · · · · ; ty: 10 ⁻⁴ 10 ⁻² // // % % 60 80		UC 50 10 ♦	CS - MP 00 150 Point L Triaxial RMR 0 60	a 200 Dad
-10					METASEDIMENTARY ROCK (Biotite Schi Grey, fine grained, phylitic, slightly to mode joint sets plus random, predominant joint se (subhorizontal), joints smooth planar, trace NOTES: 1) PVC casing installed for thermistor strin 2) Dynamic cone testing attempted at: 2.1 @ 8ft = 24 (refusal at 5"); 3.2m - blows per 3) Hole backfilled upon completion.	st) rately weathered, weak, two et parallel to foliation sand and clay infill. g. m - blow per foot @ 2ft = 7; foot = 40, bouncing at 10".								
B	G		SGC		SINEERING INC. 1 SCIENCES COMPANY	Client: Victoria Gold								

Project: Eagle Gold, Site Facilites DRILL	HOLE # DH-BGC09-DG-1	Page 1 of 3
Locat.	ion : Dublin Gulch Pr	roject No. : 0792-002
Survey Method : Handheld GPS Drill D Co-ordinates (m) : 459,302.E, 7,101,060.N Drillin Ground Elevation (m) : 923.0 Drill M Datum : UTM NAD 83 Core : Dip (degrees from horizontal) : Fluid Direction : n/a Casing	Designation : Pioneer 2 Start Date : 1 g Contractor : Aggressive Drilling Finish Date: Method : Solid Stem Auger/HQ3 Final Depth of Top : HQ3 Depth to Top : Polymer Logged by : g : Cased To (m) :	14 Aug 09 15 Aug 09 of Hole (m): : 12.8 o of Rock (m) : 7.62 MRR / : PQ
C Depth (m) Sample Type Sample No. Symbol	Description → Description → → → → → → → → → →	Su - kPa 80 120 160 □ ⊥AB UC/2 △ Pocket Pen /2 □ □ DCT (blows/300mm) web
0 SAND and GRAVEL (SW/GW) Silty, well graded, very dense, max c subangular, brown, moist, homogene (PLACER TAILINGS) SAND and GRAVEL (SW/GW) Some silt, some cobbles, trace bould clast 40cm, subrounded to subangul homogeneous. (PLACER TAILINGS) 2.0m - Gravelly cobbles and boulders 3 3 4 5 6 6 7 6 7 8	last 20cm, subrounded to acus. lers, well graded, dense, max ar, oranigsh brown, moist, s, water table at 2.0m se gravel, some cobbles, le clast 3cm, subrounded to orly graded, very dense, slow er drilling to HQ3 coring. 7.62 m depth. G-1 rock log.	
BGC ENGINEERING INC.	Client: Victoria Gold	

GENERAL BGC (SOIL) 0792-002_03.GPJ BGC.GDT 10/2/09

Pro	oject:	Eag	le Gold	d, Site I	Facilites DRILL HOL					P	Proiec	rt No	• 070	ge 2 o	of 3
Sui Co- Gro Dat Dip Dir	rvey l ordir ound tum : o (deg ection	Wethonates Eleva UTM grees n :	od :Ha (m) : 4 ation (I NAD 8 from I	ndheld 459,302 m) : 923 33 horizor	GPS Drill Designa 2.E, 7,101,060.N Drilling Cont 3.0 Drill Method Core : HQ3 htal) : -90 Fluid : Polym Casing :	<i>tion</i> : Pioneer 2 <i>ractor</i> : Aggressive Drilling : Solid Stem Auger/HQ3 er <i>Cased To (m)</i> :		S F D L F	itart D inish inal D ogge Reviev	ate : Date Depth to To d by ved b	14 A 15 A of H p of MRI y : P(ug 09 ug 09 ole : Rock R) 12.8 (m) :	7.62	_
			e				S	H Co	lydraulio nductiv m/sec	ity	2		UCS	- MPa	
	/pe	o.	ig Grad		Lithologic Descr	ption	t Detail	10	° 10°° L	10" 1	0-2	50	100 P	150 I oint Lo	200 ad
Depth (m)	Sample T	Sample N	Weatherin	Symbol			Instrumen	Re 20	covery RQD % 40	— % 60 8		20	> T RI 40	MR 60	80
				>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	0 to 7.62 m - See DH-BG METASEDIMENTARY Dark-grey, fine grained, foliated, medium joint sets plus random, trace clay and fine planar, core 1-4" pieces.	C09-DG-1 soil log.									
- - - 					(Continued on nev	(nage)									

Pro	oject:	Eag	le Gol	d, Site	Facilites DRILL HOLE	# DH-BGC09-DG-1						Pa	ige 3	of 3
Sur Co- Gro Date Dip Dire	vey l ordir ound um : (deg ectio	Wethnates Elev UTM grees n :	od :Ha s (m) : - ation (I NAD 8 s from 1	ndheld 459,302 m) : 923 33 horizor	GPS Drill Designat 2.E, 7,101,060.N Drilling Contr 3.0 Drill Method : Core : HQ3 htal) : -90 Fluid : Polyme Casing : C	ion Guich ion : Pioneer 2 actor : Aggressive Drilling Solid Stem Auger/HQ3 er cased To (m) :		Sta Fin Fin Dep Log Rev	rt Date ish Da al Dep oth to 1 iged b viewed	: 14 A te: 15 A th of H Top of y : MR by : P	Lug 09 Aug 09 Aug 09 Iole : Rock R	12.8 (<i>m</i>)	9∠-00 : 7.62	2
Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Descrip	otion	Instrument Details	Hyd Cond m/ 10 ⁻⁸ C Reco RQ	raulic · uctivity sec · 0 ⁻⁶ 10 ⁴ - orre - very % _ D % _ -	10 ²	50 	UC: 100 F \$	S - MPa	200 bad
-11 -12 13 14 15 16 17 18 19 -20					11.89m to 12.34m - Circulation lost, NO F END OF HOLE @ 12.8m. NOTES: 1) 2" slotted PVC pipe installed from 3.05 2) No recovery zone from 11.89 to 12.34	ecovery.								
B	GC		SGC		SINEERING INC. I sciences company	Client: Victoria Gold								

Pr	oject:	: Eag	ıle G	old, Si	ite Facilites DRILL HOLE #	DH-BGC09-DG	-2			Project	Page 1 of 3
Su Co Gro Da Dip Dir	rvey l -ordii ound tum : o (deg rectio	Meth nates Elev UTM grees n : n/	od : s (m) atior 1 NAI s froi ⁄a	Handh : 458, n (m) : D 83 n hori a	Location : Dublin leid GPS Drill Designation 992.E, 7,100,880.N Drilling Contracted 828.0 Drill Method : Sol Core : HQ3 Core : HQ3 zontal) : Fluid : polymer Casing : Case	: Pioneer 2 or : Aggressive Drilling id Stem Auger/HQ3 d To (m) :				Start Date : 13 Aug Finish Date: 14 Aug Final Depth of Hole Depth to Top of Ro Logged by : MRR Reviewed by : PQ	09 09 e (m): : 16.3 ck (m) : 14.60
Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic Description	Instrument Details	SPT Blows per 150mm	SPT-T Friction (kPa)	DCT Blows per 300mm	Su 40 80 VANE FIELD LAB PEAK ← ■ REMOLD ← ■ ★ % Fines Hydraulic (m/sec) 10 ⁶ 10 ⁶ 10 ⁴ 10 ² Corductivity (m/sec) 20 40 60 80	- kPa 120 160 ▲ UC/2 △ Pocket Pen /2 → DCT (blows/300mm) ● SPT (blows/300mm) Moisture Content & SPT N W% W% W% × 0 60 80
					SILTY SAND (SW-SM) Some fine to medium gravel, loose, max visible of subangular, brown, dry. [PLACER TAILINGS] CLAYEY GRAVEL (GP) Some sand, some silt, loose to compact, max vis subrounded to subangular, brown, moist. [PLACER TAILINGS] SANDY GRAVEL (GP) Some silt, compact, max visible clast 40mm, sub subangular, brown, wet. [PLACER TAILINGS] 4.9m - Water table encountered. Below 7.6m - Cobbly.	rounded to					- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
03.GPJ BC					+ - -						
(IL) 0792-00					(Continued on next pag	e)					
	G		BG(N APP		IGINEERING INC. RTH SCIENCES COMPANY	Client: Victoria C	Gold				

Pro	ject:	Eag	le G	old, Si	te Facilites	DRILL HOLE # [DH-BGC09-	DG-	2						Pa	age 2 c	o f 3
						<i>Location</i> : Dublin G	ulch						Pro	ject N	lo. : 07	92-002	2
Sur Co- Gro Dat Dip Dire	vey N ordin und I um : (deg ectior	Methonates Eleva UTM prees n : n/	od : ation NAE fron	Handhe : 458,9 (<i>m</i>) : 8 0 83 n horiz	eld GPS 992.E, 7,100,880.N 828.0 contal) :	Drill Designation : F Drilling Contractor Drill Method : Solid Core : HQ3 Fluid : polymer Casing : Cased	Pioneer 2 : Aggressive Drilli Stem Auger/HQ3 To (m) :	ing				Start Da Finish L Final Do Depth t Loggeo Review	nte: 13 Date: 14 Septh of Top o by: N Sed by:	Aug (Aug Hole of Roo IRR PQ	09 09 (m): : ck (m)	16.3 : 14.60)
5 Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol		Lithologic Description		Instrument Details	SPT Blows per 150mm	SPT-T Friction (kPa)	DCT Blows per 300mm	VANE PEAK REMOLI Hydrai Conductir 10 ⁻⁸ 1 Core I 20 4	$\frac{FIELD}{\diamond}$ % Fines lity (m/sec; $0^6 \ 10^4$ Recovery $0^6 \ 60$	Su - 80 LAB 0 10 ⁻² 80	kPa 120 △ □ - W _P % × 20	16 UC/2 Pocket DCT (blo SPT (blo SPT (blo Content W% O 40 60	0 Pen /2 ws/300mm) ws/300mm) & SPT N W _L % — - × 0 80
-10^{-1}					10.0m to 14.10m - Po 12.1m - Switch from s 12.5m - Sandy, hole s Rock e See	or recovery, cobbly. olid stem augering to HQ3 dia queezing on drill pipes.	amond drilling.										
						NC	Client: Vict	oria G	old								
В	GC				RTH SCIENCES COMPANY				-								

GENERAL BGC (SOIL) 0792-002_03.GPJ BGC.GDT 10/2/09

Pro	oject:	Eag	le Gol	d, Site	Facilites DRILL H	IOLE # DH-BGC09-DG-2 n : Dublin Gulch	1				Proje	ct No	P 0. : 07	age 3 792-00	of 3)2
Sui Co- Gro Dat Dip Dire	vey l ordir ound um (deg ection	Neth nates Elev UTM rees n :	od :Ha s (m) : ation (I NAD 8 s from 1	ndheld 458,992 (m) : 82 33 horizor	GPS Drill Des 2.E, 7,100,880.N Drilling 8.0 Drill Mean Core : H Intal) : -90 Fluid : p Casing :	signation : Pioneer 2 Contractor : Aggressive Drilling thod : Solid Stem Auger/HQ3 IQ3 iolymer : Cased To (m) :			Start E Finish Final E Depth Logge Reviev	Date : Date Depti to To d by ved k	13 A 2 14 <i>F</i> 5 of H 5 MR : MR 5 Y : P	ug 09 Aug 0 I ole : Roci R Q	9 16.3 k (<i>m</i>)	: 14.6	60
 5 Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol	Lithologic E	Description	Instrument Details	10 10 20	Hydrauli onductiv m/sec ⁻⁸ 10 ⁻⁶ Core ecovery RQD %	c ity 10 ⁴ / % 60			UC 0 10 •	S - MP	a 200
- - - - - - - - - - - - - - - - - - -					0 to 14.60 m - See Dł	H-BGC09-DG-2 soil log.									
- - - - - - - - - - - - - - - - - - -					METASEDIMENTARY Grey, fine grained, phylitic, medium plus random (predominant joints pai joints planar and rough, typical joint END OF HOLE @ 16.31m. NOTES: 1) Monitoring well installed by Stant 2) Dynamic cone pushed from 1.52 9.75m.	strong, slightly weathered, 3 joint sets rallel to schistosity), trace clay infilling, spacing 2"-4", 1-3mm quartz veins. tec. 2m to 9.75m, DCPT bouncing at									
 B	GC		SGC		SINEERING INC.	Client: Victoria Golo	d								

GENERAL BGC (ROCK) 0792-002_03.GPJ BGC.GDT 10/2/09

Project: Eagle Gold, Site Facilites

DRILL HOLE # DH-BGC09-DG-3

Location : Dublin Gulch

Project No. : 0792-002

Page 1 of 4

Survey Method : Handheld GPS Co-ordinates (m) : 458,988.E, 7,100,919.N Ground Elevation (m) : 844.0 Datum : UTM NAD 83 Dip (degrees from horizontal) : Direction : n/a

GENERAL BGC (SOIL) 0792-002_03.GPJ BGC.GDT 10/2/09

Drill Designation : Pioneer 2 Drilling Contractor : Aggressive Drilling Drill Method : Solid Stem Auger/HQ3 Core : HQ3 Fluid : polymer Casing : Cased To (m) : Start Date : 11 Aug 09 Finish Date: 12 Aug 09 Final Depth of Hole (m): : 20.7 Depth to Top of Rock (m) : 12.10 Logged by : MRR Reviewed by : PQ

								_		_			Su -	· kPa			
								mm	a)	Jmr		40	80	12	20	160	
			ade				ails	15	(kP	30(FIEL	D LAB		UC/2	2	
	ЭС		Gra		Lithologic Description		Deti	per	tion	per	REMOLI				Pock	ket Pen	/2
Ê	Typ	No	ring				ent	SWC	⁼ rict	SWC	Hydra	ulic (m/s	ec)	1		(blows/30	θmm)
th (I	ble	ble	the	lodi			, m	m	1 L-	Ē	10-8	10 ⁻⁶ 10	⁴ 10 ⁻²	Moist	ture Con	(blows/30 tent & S	Dmm) PT N
Jep	Sam	Sam	Nea	Sym			nstr	SPT	SPT	DC1	Core	Recove	ery	W _p %	- — -0	6 	W _L % - ×
0_	•,	•,		•.•.•.•	SAND and CDAV/EL (SIA//CIA/)		_				20	40 6	0 80	20	0 40	60	30
-					Fine to coarse, trace silt, loose, max clast 5cm, and moist, homogeneous.	ular, brown,											
-																	
1 -					Some fine sand, low plastic, firm, grey, moist, varve strength, rapid dilatancy. [PI ACER TAILINGS - Settling Pond]	d, low dry											
_					SAND and GRAVEL (SW/GW)												
- 2					Fine to coarse, trace silt, compact, max clast 5cm, s	subrounded to											
_					angular, orangish-brown, moist, nomogeneous.												
-														[
- 3				•`•`•`•` ••••••										[
- 5					SILTY SAND and GRAVEL (SW/GW)	aubrounded to									<u> </u>		
_					angular, tan, wet, homogeneous.										71		
-					[PLACER TAILINGS]										ŗ		
- 4					Storm - Doulders, slow adgering.											17	
_				.•													
-				XX											۲		
- 5				.•										[1		
_					GRAVEL COBBLES and BOULDERS												
_					Silty, some sand, compact, wet, granodiorite and m	etasedimentary									└-†!		
-				.••	clasts. [PLACER TAILINGS]										L		-
— 6 -														- +	-	•+-	
-																	
_				i to													
- 7				\mathcal{A}													
_																	
-																	
- 0				• • •	7.60m - Switch from hollow stem auger to HQ3 cor	ing.											
- 0																	
-				.•													
_				XX													
- 9				.•													
F																	
-				.•													
				• • •													
L					(Continued on next page)												
		- E	SG() EN	IGINEERING INC.	Client: Victo	oria G	old									
D			N APP	LIED EAI	RTH SCIENCES COMPANY												

Pro	oject:	: Eag	le G	old, Sit	te Facilites	DRILL HOLE # 1 Location : Dublin G	DH-BGC09- ^{ulch}	DG-	3					Proje	ct N	I o.:0	Page 2)792-0	2 of 4 02
Sur Co- Gro Dat Dip Dire	rvey l ordin ound tum : (deg ectio	Meth nates Elev UTM grees n : n.	od : s (m) ation 1 NAE s fron /a	Handha : 458,9 (<i>m</i>) : 8 0 83 n horiz	eld GPS 988.E, 7,100,919.N 844.0 zontal) :	Drill Designation : Drilling Contractor Drill Method : Solid Core : HQ3 Fluid : polymer Casing : Cased	Pioneer 2 : Aggressive Drill Stem Auger/HQ3 <i>To (m)</i> :	ing				Start Finis Final Depti Logg Revie	Date h Dat Dept h to T ed by ewed	:11 A e:12 / h of H op of /:MR by : P	Aug (Aug (Iole Roc R R Q)9 09 (m): ck (m	: 20.7 n) : 12.	10
5 Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol		Lithologic Description		Instrument Details	SPT Blows per 150mm	SPT-T Friction (kPa)	DCT Blows per 300mm	VANE PEAF REMO Cond 10 Ccc 20	40 FI OLD ★ % I /draulic (luctivity (⁸ 10 ⁸ ore Reco	8 <u>ELD</u> L.	Su - 0 AB	kPa 120 Δ Δ μ Μοίstri ₩ _P % × 20	0 UC/2 Pocke J DCT SPT JIFE Conte W%	160 t Pen /2 (blows/300mr (blows/300mr ent & SPT W,
					Rock Se	encountered at 12.10 m dept e DH-BGC09-DG-3 rock log.	1.	-										
- 																		
- 																		
- 																		
- 19 - - - 20-																		
B	G		BG(N APP		IGINEERING RTH SCIENCES COMPANY	INC.	Client: Vict	toria G	old									

Pro	oject:	: Eag	le Gol	d, Site	Facilites DRILL HOLE #	DH-BGC09-DG-3 Gulch					Proje	ect N	ן ס.: 0	Page 1792-	3 of 002	4
Sur Co- Gro Dat Dip Dire	rvey l -ordii bund tum : o (deg ectio	Meth nates Elev UTM grees n :	od :Ha ; (m) : ation (NAD ; ; from	ndheld 458,988 (m) : 84 33 horizor	GPSDrill Designation :3.E, 7,100,919.NDrilling Contractor4.0Drill Method : SolidCore : HQ3Core : HQ3htal) : -90Fluid : polymerCasing :Cased	Pioneer 2 r : Aggressive Drilling I Stem Auger/HQ3 I To (m) :			Start I Finish Final I Depth Logge Revie	Date Dat Dept to T ed by wed	: 11 / te: 12 th of / fop o y : MF by : 1	Aug (Aug Hole f Roc RR PQ)9 09 : 20. : k (n	7 1):12	2.10	
			-					с	Hydraul Conducti m/sec	ic vity			L	CS - N	1Pa	
	be		g Grade		Lithologic Description		Details	10) ⁻⁸ 10 ⁻⁶	10 ⁻⁴	10 ⁻²		50 ⁻	Point	50 2 Load	00
Depth (m)	Sample Ty	Sample No	Weathering	Symbol			Instrument	F	RQD %	/ % _ 60			\$	Triax RMR]
					0 to 12.10 m - See DH-BGC09-E)G-3 soil log.										
- 12 13 13 14 				>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	METASEDIMENTARY Grey, fine to coarse, brecciated, extremely to ve highly weathered, dense clay with angular coars broken rock to fault gouge. [FAULT]	ery weak, moderately to se gravel sized clasts,										
- 16 				··	METASEDIMENTARY (Quartzite) Grey to pink, fine grained, phyllitic, very weak to moderately weathered, three joint sets plus rand gouge, joints rough and planar, quartzite veins breccia to 19m.	o weak, slightly to dom, some sandy clay (1-3mm), texture is healed										
	I				(Continued on next page)										
B	G				SINEERING INC. I sciences company	Client: Victoria Gold										

Pro	oject:	: Eag	le Gol	d, Site	Facilites	DRILL HOLE # Location : Dublin (DH-BGC09-DG-3 Sulch	}			Pro	oject	No. :	Page 0792-	4 of 4 002	
Sui Co Gra Dat Dip Dir	rvey l -ordii ound tum : o (deg rectio	Meth nates Elev UTM grees n :	od :Ha s (m) : ation (I NAD 8 s from 1	ndheld 458,988 m) : 84 33 horizor	GPS 8.E, 7,100,919.N 4.0 n tal) : -90	Drill Designation : Drilling Contracto Drill Method : Solid Core : HQ3 Fluid : polymer Casing : Cased	Pioneer 2 r : Aggressive Drilling J Stem Auger/HQ3			Start D Finish Final D Depth Logge Review	ate:1 Date:1 leptho toTop d by:1 red by	1 Aug 2 Au f Hoi of R MRR : PQ	g 09 g 09 l e : 20 ock (l).7 m) : 12	2.10	
Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol		Lithologic Description		Instrument Details	C 10 R	Hydraulia onductiv m/sec ^{1⁸} 10 ⁻⁶ Core lecovery RQD % 0 40	; ty: 10 ⁴ 10 ⁻² , ,,, ,, ,,, ,,,, ,,,,,, ,,.,		50 ↓ ◇	UCS - M 100 Poin Triax RMR 40	//Pa 150 200 t Load tial	0
-21 -22 -23 -23 -24 -25 -26 -27 -26 -27 -28 -27 -28 -27 -28 -29 -29 -30					END OF HOLE @ NOTES: 1) Dynamic cone 2) Hole backfilled	20.73m. pushed from 1.22m to 6.10n upon completion.	n, refusal on boulders.									
B	G				SINEERING	INC.	Client: Victoria Gol	d								_

DRILL HOLE # DH-BGC09-DG-7 Page 1 of 3 Project: Eagle Gold, Site Facilites Location : Dublin Gulch Project No. : 0792-002 Survey Method : Handheld GPS Start Date : 22 Aug 09 Drill Designation : Pioneer 2 Co-ordinates (m): 458,918.E, 7,100,426.N Drilling Contractor : Aggressive Drilling Finish Date: 22 Aug 09 Final Depth of Hole (m): 19.8 Ground Elevation (m): 878.0 Drill Method : Solid Stem Auger Datum : UTM NAD 83 Core : Depth to Top of Rock (m) : Fluid : polymer Logged by : MRR Dip (degrees from horizontal) : -90 Direction · Casing : Cased To (m) : Reviewed by : PQ Su - kPa Blows per 150mm 300mm 40 80 120 160 SPT-T Friction (kPa) Weathering Grade Instrument Details VANE FIELD LAB ▲ UC/2 Blows per PEAK Pocket Pen /2 ٠ Δ Lithologic Description Sample Type REMOLD \diamond Sample No. DCT (blows/300mm) Depth (m) ★ % Fines SPT (b) • Symbol Moisture W_P% Content & SPT N Ĵ Core Recovery SPT DCT W_L% - × W% ×-20 -0 20 40 60 40 60 80 80 0 ORGANICS Peat, dark brown, silty, trace rootlets. SILT (ML) Some gravel, some sand, firm, brown, rapid dilatancy, no visible ice, excess moisture when thawed, trace organics, partially 1 FROZEN. Ь SILTY GRAVEL (GM) Ŷ PC Some sand, some clay, gap graded, compact, max visible clast 2 Ø 3cm [COLLUVIUM] 3 4 c SAND and GRAVEL (SM/GM) Silty, cobbly, well graded, very dense, max visible clast 3cm, 5 subrounded to subangular, tan, moist, no cementation. [COLLUVIUM] 6 CLAY and GRAVEL Some sand, some silt, fine to medium gravel (subangular to 7 angular), very dense, max visible clast 5mm, brown, moist, homogeneous. [COLLUVIUM] 8 9 CLAYEY GRAVEL (GC) Some silt, poorly graded, subangular to subrounded, fine to medium gravel, dense, max visible clast 2cm, light orangish-brown, moist, fine angular mica gravel. (Continued on next page) BGC ENGINEERING INC. Client: Victoria Gold AN APPLIED EARTH SCIENCES COMPANY

BGC.GDT 10/2/09

(SOILONLY) 0792-002 03.GPJ

CCS

Pro	oject:	: Eag	ıle G	old, Si	te Facilites Di	RILL HOLE # [Location : Dublin G	D H-BGC09- ulch	DG-	7					Pr	oject	No. :	Pag 0792	e 2 o 2-002	f 3
Sui Co- Gro Dat Dip Dir	ordin ordin ound tum : (deg ectio	Meth nates Elev UTM grees n :	od : s (m) vation 1 NAI s fron	Handho : 458,9 n <i>(m)</i> : D 83 m horiz	eld GPS 918.E, 7,100,426.N 878.0 rontal) : -90	Drill Designation : F Drilling Contractor Drill Method : Solid Core : Fluid : polymer Casing : Cased	Pioneer 2 : Aggressive Drill Stem Auger To (m) :	ing				Start Finis Final Dept Logg Revie	t Dat sh Da l Dej th to ged l ewe	te:2 ate:2 pth o Top by: d by	22 Aug 22 Aug of Hol o of R MRR :: PQ) 09 g 09 e (m) pck (i	19 (m) :	.8	
									ш		ш		40		Su 80	ı - kPa 1	20	16	<u> </u>
m)	e Type	, No.	ering Grade		Li	thologic Description		ient Details	ows per 150r	Friction (kPa	ows per 300r	VANI PEAI REM	E K OLD	, FIEL[♦ ♦	<u>)</u> <u>LAB</u>			C/2 Cket I CT (blow	Pen /2 /s/300mm)
) Depth (Sample	Sample Sample Weather Symbol						Instrum	SPT BI	SPT-T	DCT BI	R 20	Core ecove	ery) 60	80	Mois W _P % ×-	sture C 20 4	ontent W% -O — 0 60	& SPT N WL% × 80
-11 -12 -13 -14 -15 -17 -17 -18 -19 -20					SANDY CLAY (CL) Some silt, some fine gravel (plastic, low dry strength, hom SANDY CLAY (CL) Some fine to medium gravel moist, hard, no cementation, [TILL]	angular), light brown, r logeneous. (angular), low plastic, no dry strength, homo	noist, hard, low blueish-grey, geneous.												
-20-			•	·	(Coi	ntinued on next page)				•	•	- 1							
B	G		3G(N APP		GINEERING INC.		Client: Vict	oria G	old										

Pro	oject:	: Eag	le G	old, Si	ite Facilites	DRILL HOLE Location : Dubl	# DH-BGC09- in Gulch	-DG-	7					Proje	ect N	ן וס.: (Page 3)792-0	of 3 02	
Sui Co- Gro Dat Dip Dire	vey l ordii ound tum : (deg ectio	Meth nates Elev UTM grees n :	od : s (m) atior 1 NAE s fron	Handh : 458, i <i>(m)</i> : D 83 n hori	eld GPS 918.E, 7,100,426.N 878.0 zontal) : -90	Drill Designation Drilling Contract Drill Method : S Core : Fluid : polymer Casing : Ca	on : Pioneer 2 ctor : Aggressive Drill Solid Stem Auger sed To (m) :	ling				Start Finis Final Deptl Logg Revie	Date h Dat Dept n to T ed by wed	: 22 / e: 22 h of l op or / : MF by : F	Aug (Aug Hole f Roo R R R P Q	09 09 (m) ck (n	: 19.8 1) :		
S Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol		Lithologic Description	on	Instrument Details	SPT Blows per 150mm	SPT-T Friction (kPa)	DCT Blows per 300mm	VANE PEAK REMO	40 Fl DLD % Fine Core covery 40	€ <u>ELD</u> <u>L</u> ◆ ⇒ ==============================	Su - 30 <u>AB</u> 30 30	12 12 ▲ △ ■ Moisti W _p % × <u>-</u> 20	0 UC/2 Pocki J DCT SPT ure Conte W%	160 et Pen /. blows/300m blows/300m int & SP W 60 80	2 m) m) T N /_% X
- 21 - 22 - 22 - 23 - 24 - 25 - 26 - 27 - 26 - 27 - 28 - 29 - 29 - 30-					rods. NOTES: 1) Dynamic cone tes @ 22ft - 1 blow, @ 2	st attempts at: 5.18m - ref 23ft - refusal at 3"; 19.80n	usal at 2"; 6.71m - n - 10 blows for 1"												
B	G		BG(N APP		IGINEERING RTH SCIENCES COMPANY	INC.	Client: Vic	toria G	old										

DRILL HOLE # DH-BGC09-STU-3 Page 1 of 4 Project: Eagle Gold, Site Facilites Location : Stuttle Gulch Project No. : 0792-002 Survey Method : Handheld GPS Start Date : 18 Aug 09 Drill Designation : Pioneer 2 Co-ordinates (m): 459,098.E, 7,100,673.N Drilling Contractor : Aggressive Drilling Finish Date: 19 Aug 09 Final Depth of Hole (m): 31.1 Ground Elevation (m): 887.0 Drill Method : Solid Stem Auger Datum : UTM NAD 83 Core : Depth to Top of Rock (m) : Fluid : polymer Logged by : MRR Dip (degrees from horizontal) : -90 Direction : Casing : Cased To (m) : Reviewed by : PQ Su - kPa Blows per 150mm 300mm 40 80 120 160 SPT-T Friction (kPa) Weathering Grade Instrument Details VANE FIELD LAB ▲ UC/2 Blows per PEAK Pocket Pen /2 ٠ Δ Lithologic Description Sample Type REMOLD \diamond Sample No. DCT (blows/300mm) Depth (m) ★ % Fines SPT (b) • Symbol Moisture W_P% Content & SPT N Ĵ Core Recovery SPT DCT W_L% - × W% ×-20 -0 20 40 60 40 60 80 80 0 ORGANICS Peat, dark brown, rootlets. SAND and GRAVEL (SM/GM) Some silt, trace cobbles, well graded, dense, subrounded to angular, max clast 40cm, orangish-brown, dry to moist, 1 homogeneous. [COLĽUVIUM] 0.80m - FROŻEN: Vx, 1-5%. 1.60m - Stratified sand and gravel, subrounded, tan, some silt. FROZEN: Vx, 1%. 2 3 SAND and GRAVEL (SW/GW) Fine to coarse, trace silt, well graded, dense, max visible clast 3cm, subrounded to subangular, brown, dry, homogeneous, partially FROZEN: Nbn. [COLLUVIUM] 4 4.57m - FROZEN: Nbn. 5 6 SILTY SAND and GRAVEL (SW/GW) Fine to coarse sand, fine to medium gravel, some clay, well graded, dense, max visible clast 2cm, angular to subangular, brown, moist, homogeneous, FROZEN: Nbn. 7 8 9 9m - Subrounded to subangular, max clast 4cm. (Continued on next page) BGC ENGINEERING INC. Client: Victoria Gold AN APPLIED EARTH SCIENCES COMPANY

BGC.GDT 10/2/09

(SOILONLY) 0792-002 03.GPJ

BGC

FNFRAL

Pro	oject:	: Eag	jle G	old, Si	te Facilites DRILL HOLE Location : Stut	# DH-BGC09-\$ le Gulch	STU	-3					Pr	oject	No.	Pag : 079	je 2 o 2-002	f 4
Sur Co- Gro Dat Dip Dire	vey l ordii ound cum : (deg ectio	Meth nates Elev UTM grees n :	od : s (m) ration 1 NAI s fron	Handhe : 459,(n (m) : : D 83 m horiz	eld GPSDrill Designation098.E, 7,100,673.NDrilling Contra887.0Drill Method : SCore :Core :contal) : -90Fluid : polymerCasing :Ca	on : Pioneer 2 ctor : Aggressive Drilli Solid Stem Auger sed To (m) :	ing				Start Finis Final Dept Logg Revie	Dat h D Dej h to ged i ewe	te:1 ate: pth o Top by: d by	8 Au 19 Au of Ho of R MRR : PQ	g 09 Ig 09 Ie (m Rock):3' (m) :	.1	
								m		m		40	<u> </u>	S	u - kP	100	160	
	ype	0	ng Grade		Lithologic Description	on	it Details	/s per 150r	iction (kPa)	/s per 300n	VANE PEAF REM	4(<u>E</u> < OLD	, <u>FIEL[</u> ♦ ♦				IC/2 OCKet F	Pen /2
Depth (m)	Sample T	Sample N	Weatherir	Symbol			Instrumer	SPT Blow	SPT-T Fr	DCT Blow	* Re 20	Core ecove	ines ery) 60	80		isture (% 	Ontent W% -O	s/300mm & SPT WLS × 80
-11 -12 -13 -14 -15 -17 -17 -18 -19 -20-					SILT and GRAVEL (ML/GP) Sandy, trace clay, fine to medium gravel, gap of visible clast 3cm, subangular brown, moist, pa [COLLUVIUM] SILT and CLAY (ML/CL) Low plastic, some fine to coarse sand, trace fing gravel, hard, greyish brown, moist, homogener low dry strength, no dilatancy. FROZEN: Nbn, 19.70m - Unfrozen. (Continued on next p	age)												
B	G		BG(N APP		GINEERING INC. RTH SCIENCES COMPANY	Client: Vict	oria G	old										

Pro	oject:	: Eag	le G	old, Si	te Facilites	DRILL HOLE # Location : Stuttle	DH-BGC09- Gulch	STU [.]	-3					Proje	ect N	l Io.: (Page 3)792-0	o f 4 02
Su Co Gro Da Dip Dir	rvey l -ordir ound tum : o (deg ection	Meth nates Elev UTM grees n :	od : s (m) ation 1 NAE s fron	Handh : 459,0 (<i>m</i>) : 0 83 n horia	eld GPS 098.E, 7,100,673.N 887.0 zontal) : -90	Drill Designation Drilling Contracto Drill Method : Soli Core : Fluid : polymer Casing : Case	: Pioneer 2 r : Aggressive Drill d Stem Auger d To (m) :	ling				Start Finisl Final Depth Logge Revie	Date Dept to T ed by wed	: 18 / e: 19 h of / op o / : MF by : F	Aug (Aug Hole f Ro R R R P Q	09 09 (m) ck (n	: 31.1 1) :	
Q Depth (m)	Sample Type	Sample Type Sample No. Weathering Grade Symbol				Lithologic Description		Instrument Details	SPT Blows per 150mm	SPT-T Friction (kPa)	DCT Blows per 300mm	VANE PEAK REMC ★ (Re 20	40 FI DLD % Fine Core covery 40	ELD [◆ ◆ es 60 ;	Su - 80 <u>AB</u> 0	kPa 12 △ □ ■ Moist ₩ _P % ×- 20	0 UC/2 Pocki J DCT SPT ure Conte W% 0	160 1 blows/300mm) blows/300mm) blows/300mm) th & SPT I W,% × 60 80
-21 -22 -22 -233 -2333 -2333 -2333 -2333 -2333 -2333 -2333 -2333 -2333 -2333					25m to 26.5m - Bould CLAYEY GRAVEL ((Some sand, trace sill visible clast 4cm, sub green, pink) in brown cementation. [TILL]	Iders. GP) It, fine to coarse gravel, very of bangular to subrounded clast n matrix, moist, homogeneou (Continued on next page	dense, max s (dark grey, s, weak											
						(Continued on next page	9)											
В	G		BG(N APP		IGINEERING	INC.	Client: Vic	toria G	old									

Pro	oject:	: Eag	le G	old, Si	te Facilites	DRILL HOLE # Location : Stuttle	DH-BGC09-	STU	-3					Proje	ect N	F l o. : 0	Page 4	of 4)2
Sui Co- Gro Dat Dip Dir	rvey l -ordii ound tum : o (deg ectio	Meth nates Elev UTN grees n :	od : s (m) ation I NAI s fron	Handh : 459,1 n <i>(m)</i> : D 83 m horia	eld GPS 098.E, 7,100,673.N 887.0 zontal) : -90	Drill Designation Drilling Contract Drill Method : So Core : Fluid : polymer Casing : Case	: Pioneer 2 or : Aggressive Drill lid Stem Auger ed To (m) :	ing				Start Finisi Final Deptl Logg Revie	Date h Dat Dept h to T ed by wed	: 18 / e: 19 h of I op o / : MF by : F	Aug (Aug Hole f Roo R R R PQ)9 09 (m) : ck (m	:31.1)):	
Depth (m)	Sample Type	Sample No.	Weathering Grade	Symbol		Lithologic Description		Instrument Details	SPT Blows per 150mm	SPT-T Friction (kPa)	DCT Blows per 300mm	VANE PEAK REMO	40 FI DLD % Fine Core covery 40	{ <u>ELD</u> <u>L</u> ◆ ⇒s 60 {	Su - 30 	kPa 120 ▲ △ ■ Moistu W _p % × 20	UC/2 Pocke DCT (SPT (ure Conte W% — -O- 40	60 t Pen /2 plows/300mm) plows/300mm) nt & SPT
- 31 - 32 - 32 - 33 - 34 - 35 - 36 - 37 - 38 - 39 - 39					END OF HOLE @ 3 barrel stuck in hole. NOTES: 1) At 24 m - switch f drilling. Drilling hard, 24m. 2) Thermistor EBA 2 2.5, 4.0, 7.0, 10.0. 3) DCPT unable to p at 1.52m, 2.44m, 3.0	1.09m. Rods snapped off, r from solid stem auger drilling slow augering, little recover 2194 installed, 10m string; b penetrate frozen ground. At 05m.	ods and core g to HQ3 diamond y from 19m to neads at 0.5, 1.5, tempted to push											
B	G		BG(N APP		IGINEERING	INC.	Client: Vict	toria G	old									

Pro	ject:	Eag	le G	old, Si	te Facilites DRILL HOLE # D Location : Stuttle G	H-BGC09-S	STU	-4					Proiect	No. :	Pag 0792	e 1 o 2-002	f 2
Sur Co- Gro Dat Dip Dire	vey I ordin und um : (deg ection	Methonates Eleva UTM prees n : N	od : s (m) ation I NAI s fron /A	Handh) : 459,1 n <i>(m)</i> : D 83 m horia	eld GPS Drill Designation : 057.E, 7,100,712.N Drilling Contractor 882.0 Drill Method : Solid corre : N/A Fluid : polymer casing : Cased	Pioneer 2 : Aggressive Drillin Stem Auger/HQ3 To (m) :	ng				Start L Finish Final L Depth Logge Reviev	Date : Date Depth to To d by ved b	20 Aug 21 Au of Hoi op of R : MRR y : PQ	g 09 g 09 l e (m) ock (i	: 18 m) :	.3	
								E		F			S	ı - kPa			
th (m)	ple Type	ple No.	thering Grade	bol	Lithologic Description		ument Details	Blows per 150m	-T Friction (kPa)	Blows per 300m	VANE PEAK REMO	40 FIE D K Fines	80 LD LAB			C/2 C/2 Ocket F CT (blow PT (blow	Pen /2 s/300mm) s/300mm) & SPT N
Dept	Sam	Sam	Wea	Sym			Instr	SPT	SPT	DCT	Rec 20	overy 40	 60 80	W _p %	20 4	W% -0 0 60	× 80
0 - - 1 -					ORGANICS Peat, dark brown, rootlets. SILTY SAND (SM) Gravelly, well graded, compact, max visible clast 40 subrounded, brown, homogeneous. FROZEN. [COLLUVIUM]	:m,											
- 2 - - - - 3		S1			SILTY SAND and GRAVEL (SM/GW) Some clay, well graded, dense, max visible clast 3c subrounded, brown, homogeneous. FROZEN. [COLLUVIUM] 2.1m to 2.7m - Cobbly.	m,								0			
- 4					From 3.5m - Boulders.												
- 5																	
- 7		S2													0		
- 8 - 9					GRAVELLY CLAY (CL) Some sand, some silt, occasional boulders, low pla grey, moist, homogeneous, no cementation, low dr dilatant, gravel clasts, fine to coarse (subangular to [TILL]	stic, very stiff, y strength, non angular).											
-10		1	I	<u> </u>	(Continued on next page)			1	1	I	1	1			1		
B	GC				IGINEERING INC. RTH SCIENCES COMPANY	Client: Victo	oria G	old									

Pro	oject:	Eag	le G	old, Si	te Facilites DRILL HOLE # Location : Stuttle	DH-BGC09-S	STU	-4				F	Projec	t No.	Pa	ge 2 d 92-002	of 2 2
Sur Co- Gro Dat Dip Dire	vey I ordir ound um : (deg ection	Metho nates Eleva UTM prees n : N	od : s (m) atior NAE s fror /A	Handh : 459,(n (<i>m</i>) : D 83 n horia	eld GPS Drill Designation 057.E, 7,100,712.N Drilling Contracto 882.0 Drill Method : Sol Core : N/A zontal) : N/A Fluid : polymer Casing : Case	: Pioneer 2 or : Aggressive Drilli id Stem Auger/HQ3 ed To (m) :	ing				Start I Finish Final I Depth Logge Review	Date : Date Depth to To d by ved b	20 Au 21 A of H p of J : MRF y : P(ມg 09 .ug 09 ole (n Rock ຊ ຊ	n):1 (m):	8.3	
								F		F				Su - kF	а		
	/pe		g Grade		Lithologic Description		t Details	s per 150mr	ction (kPa)	s per 300mr	VANE PEAK REMO	40 			120 . (16 JC/2 Pocket	0 Pen /2 ws/300mm)
(m) r	ole Ty	ole N	herin	lo			men	Blow	ΤFri	Blow	*	% Fines				SPT (blo	
Depth	Samp	Samp	Neat	Symb			nstru	SPT	SPT-	OCT	Rec	ore overy	L		~	-0-	
-10^{-10}		S3			From 10.6m - Boulders. END OF HOLE @ 18.29m. Auger rig only has 6 present time. NOTES: 1) Thermistor EBA 2193; 10m string, beads at 0 7.0, 10.0m. 2) DCPT hit refusal at boulders at 1.52m, 3.10m	50 ft of rods at 1.5, 1.5, 2.5, 4.0, n, 6.10m, 10.6m.									o		
	GC				IGINEERING INC.	Client: Vict	coria G	old	·	·			· · · · ·				

APPENDIX D THERMISTOR DATA

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Appendix D - Thermistor Readings

Thermistors were installed temporarily in standpipes in several test pits to obtain instantaneous temperature readings, and permanently installed in three boreholes to allow readings to be made over time. The temperature measurements are summarized in Tables D-1 and D-2 below. The resistance-temperature conversion chart is presented as Figure D-1. Calibration results, and appropriate temperature adjustment factors, are attached.

Test Pit	Date	Depth (m)	Temperature (°C)
TP-BGC09-HL4-1	15-Aug-09	1.9	-0.1
TP-BGC09-HL4-2	16-Aug-09	2.3	-0.1
TP-BGC09-HL4-12	13-Aug-09	1.9	0
TP-BGC09-HL4-14	13-Aug-09	1.9	0
TP-BGC09-HL4-17	13-Aug-09	1.6	0
TP-BGC09-HL6-10	12-Aug-09	4.8	0
TP-BGC09-HL4-11	21-Aug-09	1.5	-0.1
TP-BGC09-HL4-8	17-Aug-09	2.2	0
TP-BGC09-WR-8	17-Aug-09	3.5	0.2
TP-BGC09-HL4-7	17-Aug-09	2.75	0

Table D-1.	Temperature	Measurements in	Test Pits.
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 Table D-2.
 Temperature Measurements in Boreholes.

Borehole	Date	Temperature (°C) at Depth									
		0.5 m	1.5 m	2.5 m	4.0 m	7.0 m	10.0 m				
DH-BGC09-AG-3	25-Aug-09	3	0	0.3	1	1.6	1.4				
	15-Sep-09						0.7				
	12-Oct-09						0.7				
DH-BGC09-STU-3	24-Aug-09	2.3	0.1	-0.1	0	-0.3	0.2				
	15-Sep-09	2.2	-0.2	-0.3	-0.4	-0.4	-0.3				
	12-Oct-09	-1	-0.1	-0.3	-0.4	-0.4	-0.3				
DH-BGC09-STU-4	24-Aug-09	2.2	0.2	0.1	0	0	0				
	15-Sep-09	2.5	0	-0.1	-0.1	0	0				
	12-Oct-09	-0.4	0	-0.2	-0.2	-0.1	-0.2				



Figure D-1. Thermistor Temperature-Resistance Curve.

Figure D-2. Thermistor Temperature-Depth Curve DH-BGC09-STU-3.





Figure D-3. Thermistor Temperature-Depth Curve DH-BGC09-STU-4.

EBA Engineering Consultants Ltd._____

THERMISTOR STRING CALIBRATION

Project:	Cable Fabrication	EBA Thermistor String #:	2192
Client:	BGC	Client String number:	
Date:	09-07-21	Location of Installation:	
Job No.:	E12101148	Calibration Temperature:	0.02

	Depth of Thermistor	Color of Wire	Plug Letter	Calib	ration Resist (Kilo-Ohms)	ance	Temperature (deg C)	Calibration Factor (add deg C)
	meters			That	11101 2	Tidi S		
1	0.5	Black	A	16.30	16.30	16.30	0.03	-0.01
2	1.5	Purple	В	16.32	16.32	16.32	0.00	0.02
3	2.5	Tan	С	16.32	16.32	16.32	0.00	0.02
4	4.0	Grey	D	16.39	16.39	16.39	-0.08	0.10
5	7.0	Red	E	16.30	16.30	16.30	0.03	-0.01
6	10.0	Brown	F	16.29	16.29	16.29	0.04	-0.02
7		Pink	G					
8		Blue	н					
9		Green	J					
10		Yellow	к					
11		Silver	L					
12		Orange	N					
13		Orange/Wh	Р					
14		Black/Wh	R					
15		Brown/Wh	S					
16		Red/Wh	T					
	Common	White	М					

Lead Length: 2m

Date Shipped: Carrier: W/B Number

éba

EBA Engineering Consultants Ltd._____

THERMISTOR STRING CALIBRATION

Project:	Cable Fabrication	EBA Thermistor String #:	2193
Client:	BGC	Client String number:	
Date:	09-07-21	Location of Installation:	
Job No.:	E12101148	Calibration Temperature:	0.02

-	Depth of Thermistor	Color of Wire	Plug Letter	Calibration Resistance (Kilo-Ohms)			Temperature (deg C)	Calibration Factor (add deg C)
	meters			i lidi i	i ndi z	inal 3		
1	0.5	Black	A	16.39	16.39	16.39	-0.08	0.10
2	1.5	Purple	В	16.31	16.31	16.31	0.02	0.00
3	2.5	Tan	С	16.33	16.33	16.33	-0.01	0.03
4	4.0	Grey	D	16.30	16.30	16.30	0.03	-0.01
5	7.0	Red	Е	16.29	16.29	16.29	0.04	-0.02
6	10.0	Brown	F	16.32	16.32	16.32	0.00	0.02
7		Pink	G					
8		Blue	Н					
9		Green	J					
10		Yellow	К					
11		Silver	L					
12		Orange	N					
13		Orange/Wh	Р					
14		Black/Wh	R					
15		Brown/Wh	S					
16		Red/Wh	Т					
	Common	White	М					

Lead Length: 2m

Date Shipped: Carrier: W/B Number

eba

EBA Engineering Consultants Ltd._____

THERMISTOR STRING CALIBRATION

Project:	Cable Fabrication	EBA Thermistor String #:	2194
Client:	BGC	Client String number:	
Date:	09-07-21	Location of Installation:	
Job No.:	E12101148	Calibration Temperature:	0.02

	Depth of Thermistor	Color of Wire	Plug Letter	Calibration Resistance (Kilo-Ohms) Trial 1 Trial 2 Trial 3			Temperature (deg C)	Calibration Factor (add deg C)
	meters							
1	0.5	Black	A	16.31	16.31	16.31	0.02	0.00
2	1.5	Purple	В	16.31	16.31	16.31	0.02	0.00
3	2.5	Tan	С	16.33	16.33	16.33	-0.01	0.03
4	4.0	Grey	D	16.29	16.29	16.29	0.04	-0.02
5	7.0	Red	E	16.31	16.32	16.32	0.00	0.02
6	10.0	Brown	F	16.32	16.33	16.33	-0.01	0.03
7		Pink	G					
8		Blue	Н					
9		Green	J					
10		Yellow	К					
11		Silver	L					
12		Orange	N					
13		Orange/Wh	Р					
14		Black/Wh	R					
15		Brown/Wh	S					
16		Red/Wh	Т					
	Common	White	M					

Lead Length: 2m

Date Shipped: Carrier: W/B Number

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APPENDIX E PHOTOGRAPHS

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ANN GULCH



TP-BGC09-HL1-1



TP-BGC09-HL1-1



TP-BGC09-HL1-2



TP-BGC09-HL1-2



TP-BGC09-HL6-1



TP-BGC09-HL6-1



TP-BGC09-HL6-2



TP-BGC09-HL6-2




























































DH-BGC09-AG-3



DH-BGC09-AG-3

EAGLE PUP







TP-BGC09-WR-2







TP-BGC09-WR-4























LOWER REACH DUBLIN GULCH



TP-BGC09-DG-1



TP-BGC09-DG-1





TP-BGC09-DG-3



TP-BGC09-DG-4



TP-BGC09-DG-4









DH-BGC09-DG-1



DH-BGC09-DG-1



DH-BGC09-DG-2



DH-BGC09-DG-2


DH-BGC09-DG-3



DH-BGC09-DG-3

OLIVE GULCH























TP-BGC09-HL5-7



TP-BGC09-HL5-7







TP-BGC09-HL5-9





TP-BGC09-HL5-10



STUTTLE GULCH



TP-BGC09-HL4-1





TP-BGC09-HL4-2





TP-BGC09-HL4-3





TP-BGC09-HL4-4









TP-BGC09-HL4-6





TP-BGC09-HL7









TP-BGC09-HL4-9





TP-BGC09-HL4-13









TP-BGC09-HL5-15





TP-BGC09-STU-3





TP-BGC09-STU-4





DH-BGC09-STU-3



DH-BGC09-STU-3



DH-BGC09-STU-4

WEST HAGGART CREEK



TP-BGC09-HL4-11



TP-BGC09-HL4-12



TP-BGC09-HL4-12




TP-BGC09-HL4-16



TP-BGC09-HL4-16



TP-BGC09-HL4-17

TP-BGC09-HL4-17



TP-BGC09-HL4-18



TP-BGC09-HL4-18



DH-BGC09-DG-7



DH-BGC09-DG-7 Grab sample from 20ft deep.