

PROJECT No.: [REDACTED]

RECORD OF BOREHOLE: BH-24-07

SHEET 1 OF 12
DATUM: [REDACTED]

LOCATION: Waste Rock Sediment Pond

BORING DATE: September 17th to 20th, 2007

N: -6914472 E: -412742

Note: Northing and Easting Coordinates have been determined by GPS in the field and are approximate only.

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		SAMPLE / CORE		GRADATION %			HYDRAULIC CONDUCTIVITY, $k, \text{cm/s}$		ADDITIONAL LAB. TESTING	PIEZOMETER, STANDPIPE OR THERMISTOR INSTALLATION
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	RUN No.	RECOVERY %	GRAVEL	SAND	FINES		
0		Ground Surface		0.00										
0.50		PT-SM, silty SAND and PEAT, trace gravel, trace clay, medium to coarse sand, moist, organics, dark brown to black.												
1														
2		SP-SM, silty SAND, poorly graded, trace clay, with gravel, sub-angular to sub-rounded, max. size 4 cm, yellow-brown. [Nbe]												
2.40														
3	Kluane Diamond Drill													
4		ML, SILT, with sand, trace clay, trace gravel, brown. [Nbn]												
4.80														
5														
6		SM, silty SAND, trace gravel, trace clay, well graded, brown. [Nbn]												
6.40														
7	Kluane Diamond Drill													
7		SM-GM, clayey, silty SAND and GRAVEL, well graded, brown. [Nbn]			1-1	GS			47	31	22			MH
8														

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NOV 09 2009
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CONTINUED NEXT PAGE

CUSTOM LOG 6 (CARMACK COPPER) ALL 2007 HOLES.GPJ GLDR_CAN_ABB.GDT 03/04/08

DEPTH SCALE

1 : 40



PROJECT No.: [REDACTED]

RECORD OF BOREHOLE: BH-24-07

SHEET 2 OF 12
 DATUM: [REDACTED]

LOCATION: Waste Rock Sediment Pond

BORING DATE: September 17th to 20th, 2007

N: -6914472 E: -412742

Note: Northing and Easting Coordinates have been determined by GPS in the field and are approximate only.

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		SAMPLE / CORE		GRADATION %			HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	PIEZOMETER, STANDPIPE OR THERMISTOR INSTALLATION
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/3m	RUN No.	RECOVERY %	GRAVEL	SAND	FINES		
8	Kvaerner Diamond Drill	SM, silty SAND, trace gravel and clay, brown. [Nbr]		8.05										
9		GP, poorly graded GRAVEL, medium to coarse, sub-rounded. All sand and fines washed out during drilling.		9.00										
10		No Recovery.		10.00										
11														
12		GM-SM, silty SAND and GRAVEL, trace clay, well graded, brown.		11.80										
13		SP, poorly graded SAND, few silt, medium sand, yellow-brown. [visible ice, Vs 3 mm thick]		12.51	1	GS								
14				13.24										
15		SC, clayey SAND, with silt, grey-brown. [Vs horizontal 1 to 3 cm, Vc and ice <2.5 cm]			2	GS								
16														

YWB
 NOV 09 2009
 0208 084

CONTINUED NEXT PAGE

DEPTH SCALE

1 : 40

CUSTOM LOG 6 (CARMACK COPPER) ALL 2007 HOLES.GPJ GLDR_CAN_ABB.GDT 03/04/08

PROJECT No. [REDACTED]

RECORD OF BOREHOLE: BH-24-07

SHEET 3 OF 12

LOCATION: Waste Rock Sediment Pond

BORING DATE: September 17th to 20th, 2007

DATUM: [REDACTED]

N: -6914472 E: -412742
 Note: Northing and Easting Coordinates have been determined by GPS in the field and are approximate only.

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		SAMPLE / CORE		GRADATION %			HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	PIEZOMETER, STANDPIPE OR THERMISTOR INSTALLATION
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS(0.3m)	RUN No.	RECOVERY %	GRAVEL	SAND	FINES		
16	Kjellman Diamond Drill			16.14										
17														
18		SP, poorly graded SAND, with silt, trace gravel, trace clay, grey-brown. [Nbr, Vs horizontal 1 to 3 mm, Vc and ice max. 12 cm, ice with soil inclusions]												
19														
20				19.80										
21		CL, silty CLAY, trace sand, grey. [Nbr, Vs, Vc]												
22		SP, poorly graded SAND, with silt, trace clay, fine to medium sand, grey. [Nbr, Vs, Vc]		21.60	3	GS			0	2	98			
23		ML, SILT, with clay, with sand, grey. [Nbr, Vs, Vc]		21.90										
24														

YWB
 NOV 09 2009
 QZ08084

CONTINUED NEXT PAGE

CUSTOM LOG 6 (CARMACK COPPER) ALL 2007 HOLES.GPJ GLDR CAN_ABB.GDT 03/04/08

DEPTH SCALE

1 : 40



PROJECT No.: [REDACTED]

RECORD OF BOREHOLE: BH-24-07

SHEET 4 OF 12
 DATUM: [REDACTED]

LOCATION: Waste Rock Sediment Pond

BORING DATE: September 17th to 20th, 2007

N: -6914472 E: -412742
 Note: Northing and Easting Coordinates have been determined by GPS in the field and are approximate only.

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		SAMPLE / CORE		GRADATION %			HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	PIEZOMETER, STANDPIPE OR THERMISTOR INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	RUN No.	RECOVERY %	GRAVEL	SAND	FINES			10 ⁻⁶	10 ⁻⁵
24	Kjane Diamond Drill	ML, SILT, with clay, with sand, grey. [Nbn, Vs, Vc] (continued)		24.30												
25		ML-CL, SILT and CLAY, trace to with sand, grey. [Vs, Vc, Nbn]														
26																
27		OH-SC, organic SILT, and clayey SAND, low plasticity, grey, organic odour. [Vs and ice, Nbn]		26.66												
28				27.20												
29																
30		ML-CL, SILT and CLAY, trace to with sand, grey. [Vs and ice >2.5 cm with soil inclusions]														
31																
32																

YWB
 NOV 09 2009
 QZ08 084

CONTINUED NEXT PAGE

DEPTH SCALE

1 : 40

CUSTOM LOG 6 (CARMACK COPPER) ALL 2007 HOLES.GPJ GLDR CAN_ABB.GDT 03/04/08

PROJECT No.: [REDACTED]

RECORD OF BOREHOLE: BH-24-07

SHEET 5 OF 12
DATUM [REDACTED]

LOCATION: Waste Rock Sediment Pond

BORING DATE: September 17th to 20th, 2007

N: -6914472 E: -412742

Note: Northing and Easting Coordinates have been determined by GPS in the field and are approximate only.

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		SAMPLE / CORE		GRADATION %			HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	PIEZOMETER, STANDPIPE OR THERMISTOR INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	RUN No.	RECOVERY %	GRAVEL	SAND	FINES			WATER CONTENT PERCENT	
30	Kilane Diamond Drill	- [Nbn] below 33.0 m, no visible ice.	[Hatched Pattern]													
33																
34																
35																
36																
37				36.91												
38		OH-SC, organic SILT, and clayey SAND, grey, organic odour. [Nbn]														
39				38.74												
40		ML-CL, SILT and CLAY, trace to with sand, grey. [Nbn]														

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NOV 09 2009

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CUSTOM LOG 6 (CARMACK COPPER) ALL 2007 HOLES.GPJ GLDR CAN_ABB.GDT 03/04/08

DEPTH SCALE

1 : 40

PROJECT No. [REDACTED]

RECORD OF BOREHOLE: BH-24-07

SHEET 8 OF 12
DATUM: [REDACTED]

LOCATION: Waste Rock Sediment Pond

BORING DATE: September 17th to 20th, 2007

N: -6914472 E: -412742

Note: Northing and Easting Coordinates have been determined by GPS in the field and are approximate only.

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		SAMPLE / CORE		GRADATION %			HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	PIEZOMETER, STANDPIPE OR THERMISTOR INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	RUN No.	RECOVERY %	GRAVEL	SAND	FINES			10 ⁻⁸	10 ⁻⁵
40	Kilane Diamond Drill	ML-CL, SILT and CLAY, trace to with sand, grey. [Nbn] (continued)	[Hatched Pattern]													
41																
42																
43																
44																
45		OH-SC, organic SILT, and clayey SAND, grey. [Nbn]	[Hatched Pattern]	44.53	4	GS										
46																
47		ML-CL, SILT and CLAY, trace to with sand, occasional thin sand layers, varved. [Nbn]	[Hatched Pattern]	46.53												
48																

CONTINUED NEXT PAGE

YWB
NOV 09 2009
Q208084

DEPTH SCALE

1 : 40

CUSTOM LOG 6 (CARMACK COPPER) ALL 2007 HOLES.GPJ GLDR_CAN_ABB.GDT 03/04/08

PROJECT No.: [REDACTED]

RECORD OF BOREHOLE: BH-24-07

SHEET 7 OF 12
DATUM: [REDACTED]

LOCATION: Waste Rock Sediment Pond

BORING DATE: September 17th to 20th, 2007

N: -6914472 E: -412742
Note: Northing and Easting Coordinates have been determined by GPS in the field and are approximate only.

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		SAMPLE / CORE		GRADATION %			HYDRAULIC CONDUCTIVITY, k_v , cm/s		ADDITIONAL LAB. TESTING	PIEZOMETER, STANDPIPE OR THERMISTOR INSTALLATION
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	RUN No.	RECOVERY %	GRAVEL	SAND	FINES		
48	Kjane Diamond Drill	- 49.6 m to 51.47 m clay is blue-grey.	[Hatched Pattern]											
49														
50														
51														
52		ML-CL, SILT and CLAY, trace to with sand, occasional thin sand layers, varved. [Nbn] (continued)												
53														
54														
55														
56														

YWR
NOV 09 2009
QZ08084

CONTINUED NEXT PAGE

CUSTOM LOG 6 (CARMACK COPPER) ALL 2007 HOLES.GPJ GLDR_CAN_ABB_GDT 03/04/08

DEPTH SCALE

1 : 40



PROJECT No.: [REDACTED]

RECORD OF BOREHOLE: BH-24-07

SHEET 8 OF 12
DATUM: [REDACTED]

LOCATION: Waste Rock Sediment Pond

BORING DATE: September 17th to 20th, 2007

N: -8914472 E: -412742

Note: Northing and Easting Coordinates have been determined by GPS in the field and are approximate only.

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		SAMPLE / CORE		GRADATION %			HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER, STANDPIPE OR THERMISTOR INSTALLATION			
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	RUN No.	RECOVERY %		GRAVEL	SAND	FINES	WATER CONTENT PERCENT					
									SAMPLE	CORE				Wp			W	WI	
56																			
57																			
58																			
59																			
60	Kluge Diamond Drill	- 58.16 m to 58.45 m coarse sand and fine gravel.																	
61		ML-CL, SILT and CLAY, trace to with sand, occasional thin sand layers, varved. [Nbn] (continued)																	
62																			
63																			
64																			

YWB
NOV 09 2009
0208 084

CONTINUED NEXT PAGE

DEPTH SCALE

1 : 40

CUSTOM LOG 8 (CARMACK COPPER) ALL 2007 HOLES.GPJ CLDR CAN_A88.GDT 03/04/08

PROJECT No. [REDACTED]

RECORD OF BOREHOLE: BH-24-07

SHEET 9 OF 12
DATUM: [REDACTED]

LOCATION: Waste Rock Sediment Pond

BORING DATE: September 17th to 20th, 2007

N: -6914472 E: -412742

Note: Northing and Easting Coordinates have been determined by GPS in the field and are approximate only.

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		SAMPLE / CORE		GRADATION %			HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	PIEZOMETER, STANDPIPE OR THERMISTOR INSTALLATION				
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	RUN No.	RECOVERY %		GRAVEL	SAND			FINES	WATER CONTENT PERCENT		
									SAMPLE	CORE						Wp	Wl	
64	Kjane Diamond Drill	ML-CL, SILT and CLAY, trace to with sand, occasional thin sand layers, varved. [Nbn] (continued)	[Hatched Pattern]															
65																		
66																		
67																		
68																		
69																		
70																		
71																		
72																		

YWB
NOV 09 2009
QZ08084

CONTINUED NEXT PAGE

CUSTOM LOG 8 (CARMACK COPPER) ALL 2007 HOLES.GPJ GLDR CAN_ABB.GDT 03/04/08

DEPTH SCALE

1 : 40

PROJECT No.: [REDACTED]

RECORD OF BOREHOLE: BH-24-07

SHEET 10 OF 12
 DATUM: [REDACTED]

LOCATION: Waste Rock Sediment Pond

BORING DATE: September 17th to 20th, 2007

N: ~6914472 E: ~412742

Note: Northing and Easting Coordinates have been determined by GPS in the field and are approximate only.

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		SAMPLE / CORE		GRADATION %			HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	PIEZOMETER, STANDPIPE OR THERMISTOR INSTALLATION
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	RUN No.	RECOVERY %	GRAVEL	SAND	FINES		
72	Kjume Diamond Drill	ML-CL, SILT and CLAY, trace to with sand, occasional thin sand layers, varved. [Nbn] (continued)	[Hatched]	72.44	5									
73			[Hatched]											
74			[Hatched]											
75			[Hatched]											
76		Highly weathered granodiorite BEDROCK to well-graded sand, trace silt and clay, with gravel, angular, mottled yellow-brown. [N]	[Hatched]											
77			[Hatched]											
78			[Hatched]											
79			[Hatched]											
80			[Hatched]											

YWB
 NOV 09 2009
 QZ08084

CONTINUED NEXT PAGE

DEPTH SCALE

1 : 40

CUSTOM LOG 6 (CARMACK COPPER) ALL 2007 HOLES.GPJ GLDR CAN_ABB.GDT 03/04/08

PROJECT No. [REDACTED]

RECORD OF BOREHOLE: BH-24-07

SHEET 11 OF 12
 DATUM: [REDACTED]

LOCATION: Waste Rock Sediment Pond

BORING DATE: September 17th to 20th, 2007

N: -6914472 E: -412742

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DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		SAMPLE / CORE			GRADATION %			HYDRAULIC CONDUCTIVITY, k_v , cm/s		ADDITIONAL LAB. TESTING	PIEZOMETER, STANDPIPE OR THERMISTOR INSTALLATION
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	RUN No.	RECOVERY %			WATER CONTENT PERCENT			
									GRAVEL	SAND	FINES	Wp	Wi		
80	Diamond Drill	Highly weathered granodiorite BEDROCK to well-graded sand, trace silt and clay, with gravel, angular, mottled yellow-brown, [N] (continued)	[Strata Plot]	83.09											
81															
82															
83															
84	Diamond Drill	Highly weathered granodiorite BEDROCK to poorly-graded sand, fine to medium, yellow-brown. [N]	[Strata Plot]	85.10											
85															
86															
87	Diamond Drill	Highly weathered granodiorite BEDROCK to gravel, sub-angular, max size 5 cm, medium brown, black and white.	[Strata Plot]	86.40											
88															
89		No recovery.													

YWB
 NOV 09 2009
 QZ08084

CONTINUED NEXT PAGE

CUSTOM LOG 6 (CARMACK COPPER) ALL 2007 HOLES.GPJ GLDR_CAN_ABB.GDT 03/04/08

DEPTH SCALE

1 : 40

PROJECT No. [REDACTED]

RECORD OF BOREHOLE: BH-24-07

SHEET 12 OF 12
 DATUM: [REDACTED]

LOCATION: Waste Rock Sediment Pond

BORING DATE: September 17th to 20th, 2007

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DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		SAMPLE / CORE		GRADATION %			HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	PIEZOMETER, STANDPIPE OR THERMISTOR INSTALLATION
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	RECOVERY %	GRAVEL	SAND	FINES	10 ⁻⁶		
88		No recovery. (continued)												
89		Moderately weathered granodiorite BEDROCK.	[Hatched Pattern]	89.00										
90			[Hatched Pattern]	89.90										
91			[Hatched Pattern]											
92	Kiluanne Diamond Drill		[Hatched Pattern]											
93		Granodiorite BEDROCK, slightly weathered to fresh, mottled black and white with scattered pink, coarse-grained, closely jointed, joints are planar and undulating, rough, sub-horizontal joints are clean or slightly oxidized, vertical joints contain infilling pink and white.	[Hatched Pattern]											
94			[Hatched Pattern]											
95			[Hatched Pattern]											
96		Backfilled with grout to ground surface.	[Hatched Pattern]											
96		End of BOREHOLE.	[Hatched Pattern]	95.69										

YWB
 NOV 09 2009
 0208 084

CUSTOM LOG 6 (CARMACK COPPER) ALL 2007 HOLES.GPJ GLDR_CAN_ABB_GDT_03/04/08

DEPTH SCALE

1 : 40