KLOHN CRIPPEN

GEOLOGIC LOG OF DRILL HOLE NO.: TH05-1

CLIENT: Yukon Zinc Corporation	PROJECT NO.: [redacted]
PROJECT: Wolverine Feasibility Design and Environmental Assessment	DATE HOLE STARTED: 5/17/2005 FINISHED: 5/18/2005
LOCATION:	DATUM: NAD27
DIRECTION AZIMUTH: DIP (from horiz): -90	TOP OF PIPE ELEVATION: m
CO-ORDINATES: E 442284.6m N 6808037.2m	GROUND ELEVATION: 1304.9 m
MANUFACTURER'S DRILL DESIGNATION: BBS 25A	TOTAL DEPTH OF HOLE: 32.61 m
DRILLING CONTRACTOR: Advanced Drilling Ltd.	DRILLING METHOD SOIL: NQ Core ROCK: NQ Core
LOGGED BY: [redacted]	DRILLING FLUID: Water
CHECKED BY:	HOLE DIA.:

DEPTH (m)	SYMBOL	SAMPLE No.	LITHOLOGY	PIEZOMETER DETAILS
			0.6 FILL consisting of sand, gravel and cobbles.	
1			~~0.804.3~~ 1,304.1 TOPSOIL. - Peat, organics.	
2			SILT-SAND-GRAVEL-COBBLE, mostly low to medium plastic silt, sandy and gravelly, fine to coarse sand and gravel, silty/clayey sand matrix, occasional boulders, angular to subangular gravel, grey to green, moist (TILL-LIKE). - All gravel and cobbles are chloritic ryolite. - Very poor core recovery.	
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6				
7				
8		1	- Brown clay and rock fragments between 7.45 m and 7.60 m depth.	
9				
10				
11				
12		2	- Clay, greenish grey, medium plastic and rock fragments between 11.45 m and 11.73 m depth.	
13			12.2 1,292.7 ARGILLITE, siliceous, moderately weathered, foliated at 80 degrees from core axis. - Foliation was poorly bonded (break easily under finger pressure), with calcite veins throughout.	
14				
15				
16				
17				
18				
19				
20				

HYDRAULIC CONDUCTIVITY CM/SEC: 10-6 10-4 10-2

DISCONTINUITY DATA — SEE BOTTOM OF FORM FOR CODES — Dip Angle: 30 60

ROCK STRENGTH BASED ON POINT LOAD TEST (MPa) (a)=axial; (d)=diametrical

TEMPERATURE: 0 6 12

FIELD/LAB DATA

SPT/LPT N ● — CORE RECOVERY %: 25 50 75 — 19 — 45 — 40

WATER CONTENT % ○ — R.Q.D. %: 5 10 15 — ○ ○

DISCONTINUITY CODES: B: BEDDING D: DRILL BRK F: FAULT G: GNEISS'TY J: JOINT M: SCHIST'TY S: SHEAR T: TENSION CRK

CORE LOSS — FRACTURED/BROKEN CORE — DIP ANGLES MEASURED WITH RESPECT TO

KC_ROCK-SI@4 WOLVERINE TEST HOLES - NOV 17.GPJ ROCK-LOG.GDT 2/8/06

KLOHN CRIPPEN

GEOLOGIC LOG OF DRILL HOLE NO.: TH05-1

DEPTH (m)	SYMBOL	SAMPLE No.	LITHOLOGY	PIEZOMETER DETAILS	HYDRAULIC CONDUCTIVITY CM/SEC 10-6 10-4 10-2	DISCONTINUITY DATA: SEE BOTTOM OF FORM FOR CODES; Dip Angle 30 60	ROCK STRENGTH BASED ON POINT LOAD TEST (MPa) (a)=axial; (d)=diametrical	TEMPERATURE 0 6 12	FIELD/LAB DATA: SPT/LPT N ● CORE RECOVERY % 25 50 75	FIELD/LAB DATA: WATER CONTENT % ○ R.Q.D. % 5 10 15
21			(continued from previous page)							
22									31	
23										
24									18	
25										
26			- Joints infilled with sand and rock fragments, with some shattered sections between 25.7 m and 26.1 m depth.						100	12
27			- Fault gouge - silty sand and angular rock fragments between 26.2 m and 26.8 m depth.							
28									100	36
29										
30										
31									100	46
32										
			32.6 1,272.3 End of Hole at: 32.6 m							
33										
34			Notes:							
35			1. Piezometer stickup lengths are as follows: - TH05-1A = 0.30 m; - TH05-1B = 1.72 m.							
36										
37			2. Water levels measured in piezometers TH05-1A and B after installation were 31.85 m and 1.20 m, respectively.							
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45										

DISCONTINUITY CODES: B: BEDDING D: DRILL BRK F: FAULT G: GNEISS'TY J: JOINT M: SCHIST'TY S: SHEAR T: TENSION CRK

CORE LOSS FRACTURED/BROKEN CORE DIP ANGLES MEASURED WITH RESPECT TO

KC_ROCK-SI@4 WOLVERINE TEST HOLES - NOV 17.GPJ ROCK-LOG.GDT 2/8/06