



NEXT
Environmental Inc.

Borehole Log: BH302

Project No.: RED 060103.02

Logged By: JW

Project: DSI-Phase 2

Client: RED LION MANAGEMENT LTD.

Location

of Borehole: Northwest portion of property

Site Address: 213 & 217 West 1st Street, North Vancouver, BC.

SUBSURFACE PROFILE				SAMPLE				
Depth	Symbol	Description	Depth/Elev.	Number	Type	Lab	• ppmv • 0 100 300 500 ▲% LEL▲ 0 50 100	Borehole Completion
0		Ground Surface						
0		SAND and GRAVEL (Roadbase)	0.00					
1		SAND GRAVEL (fill) Light brown, SAND & GRAVEL, trace silt, trace brick fragments, some rusty staining (@ 0.6m), dense, dry.		302-1/2		Y		
2								
3				302-3		N		
4		Silty SAND GRAVEL (fill) Dark brown, Silty SAND & GRAVEL, trace brick, wood debris, medium dense, damp to wet with depth.	1.22	302-4		N		
5								
6				302-5		Y		
7		Some peat from 1.5 to 2.6m.						
8								
9		SAND GRAVEL (fill) Medium grey, SAND & GRAVEL, loose, moist.	2.59	302-6		N		
10								
11		SAND Light grey, medium SAND, some gravel, wet, medium dense.	3.05	302-7		Y		
12								
13								
14				302-8		N		
15								
16		SAND Light grey, medium SAND, trace, some gravel, dense, wet.	4.57	302-9		N		
17								
18								
19								
20			6.10					

Drilled By: Beck Drilling and Environmental Services

Drill (Sample) Method: Solid Stem and Hollow Stem Auger

Drill Date: May 27, 2011

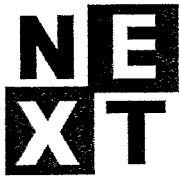
Depth to Water (below top) (m): 3.77

Top of Pipe (top)
Well Elevation (m): 15.76

Surface Grade Elevation (m): 15.83

Groundwater
Analysis: Dissolved metals

Sheet: 1 of 2



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SUBSURFACE PROFILE				SAMPLE				
Depth	Symbol	Description	Depth/Elev.	Number	Type	Lab	• ppmv • 0 100 300 500 ▲% LEL▲ 0 50 100	Borehole Completion
21		SILT Light grey, SILT, trace sand, hard, dry.						
22								
23	7							
24		End of Borehole	7.32					
25								
26	8							
27								
28								
29	9							
30								
31								
32								
33	10							
34								
35								
36	11							
37								
38								
39	12							
40								

Drilled By: Beck Drilling and Environmental Services

Drill (Sample) Method: Solid Stem and Hollow Stem Auger

Drill Date: May 27, 2011

Depth to Water
(below top) (m): 3.77

Top of Pipe (top)
Well Elevation (m): 15.76

Surface Grade Elevation (m): 15.83

Groundwater
Analysis: Dissolved metals

Sheet: 2 of 2

5.2.2 Hydraulic Conductivity

To estimate hydraulic conductivity, slug tests (rising head and falling head tests) were conducted in a number of monitoring wells considered representative across the groundwater flow path. The data was collected using pressure transducer data loggers.

Based on the rising and falling head test data and monitoring well construction, hydraulic conductivities were calculated by RGC. The "best judgement" results for the hydraulic conductivities are outlined in the following table and are shown in Appendix C.

Table E – Hydraulic Conductivity Summary

Monitoring Well	Soil Type	Screen Interval (mbg)	Analysis Method	Hydraulic Conductivity (m/s)
BH101	Silty Sand (till)	1.8 – 4.3	Bouwer-Rice	4×10^{-7}
BH103	Silt and Sand (till)	2.1 – 4.6	Bouwer-Rice	2.5×10^{-6}
BH104	Sandy Silt (till)	4.6 – 6.1	Bouwer-Rice	2×10^{-7}
BH302	Sand (till)	5.2 – 6.1	Bouwer-Rice	1×10^{-6}

Note: mbg – meters below grade

The results of the calculated hydraulic conductivity were between 2.5×10^{-6} m/s and 2×10^{-7} m/s with a geometric mean of 6.7×10^{-7} m/s.

5.2.3 Flow Rates

Though not applicable based on the new TG6, for completeness, this section and the following have been included.

Before flow rates can be calculated, the porosity of the material must be determined. In this case, NEXT used assumed a porosity value of 0.3 based on literature and experience for the North Vancouver till soils.

NEXT calculated flow rates for the native till stratigraphic unit and are summarized in the table below. The flow rates were calculated using the following formula (Darcy Flow Equation):

$$V = \frac{Ki}{n}$$

where:

V = velocity (m/s)