



**EDAL DRILLING COMPANY LTD.**

**REALINI BADER/TECHSULT**

**BORE-HOLE DRILLING REPORT**

**REF No: BORE-HOLE 1&2**

PREPARED BY:  
EDAL DRILLING COMPANY  
35<sup>A</sup> CLEWRY'S LANE, OFF MAIN MOTOR ROAD  
CONGO CROSS  
FREETOWN  
SIERRA LEONE

FOR:  
REALINI BADER/TECHSULT  
FREETOWN

**CERTIFIED BY**

KEMOH ALIE BAYOH  
*GEOLOGIST: DRILL SUPERVISOR/PROJECT MANAGER*

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## SUMMARY

A geotechnical site investigation is the process of collecting information and evaluating the conditions of the site for the purpose of designing and constructing the foundation for a structure, such as a building, plant or bridge.

Good planning for and management of a geotechnical site investigation is the key to obtaining sufficient and correct site information for designing a structure in a timely manner and with minimum cost for the effort needed. The effort and detail of the geotechnical site investigation to obtain sufficient and correct site Information to select and design a foundation for a building depends on:

- a) Design criteria of the proposed structure
- b) Historic knowledge of general site conditions and building performance
- c) Drilling equipment availability
- d) Time of year the work needs to be done may determine the geotechnical site investigation method and finally
- e) the overall costs



## DAILY LOG FOR DRILLING SUPERVISION

CONTRACT		CONTRACTION	EDAL DRILING COMPANY LIMITED	
OWNER NAME	REALINI BADER/TECHSULT	DEPTH OF HOLES (m)	12	
OWNER ADDRESS	CITY HALL,WALLACE JOHNSON STREET,FREETOWN	WEATHER	SUNNY	
RIG MAKE	PRD 250	USE	CITY HALL	
COMPRESSOR MAKE	ELGI 900 cfm/ 200 psi	DATE	START DATE:	21/06/14
			COMPLETION DATE:	21/06/14
BORE-HOLE REFERENCE NO.	BORE-HOLE (ONE) 1	DRILLING METHOD	AIR LIFT	

### LITHOLOGICAL BOUNDARIES AND SAMPLE FORMATION.

DEPTH OF CONTACT ZONE		DRILLING PROCESS			DESCRIPTION OF FORMATION	REMARKS : (Drilling Method including change of bit)
DEPTH	SAMPLE	FROM	TO	PENETRATION RATE (m/min)		
0-5	5	10:10	10:14	1.25	Reddish-brown clay+ sandstone	7" hammer Bit
						"
						"
5-9	4	10:14	10:19	0.80	Reddish-brown clay+ with small lateritic content and sandstone	"
						"
						"
10-12	3	10:20	10:44	0.125	Hard Gabbroic rock	"
						"

**N.B** Meet rock water/surface water: NIL

<b>EDAL DRILLING COMPANY</b> <b>BOREHOLE RECORD</b>		BH status: <b>Successful</b> Dry	
Report Number: <b>PRD 150</b>		Nat. grid ref.	
Headline Number / Locality Edal Drilling Company 01/11/2014		Method: <b>Air Drilling</b> Operator: <b>Das</b>	
Date: <b>21-Jun-14</b>		Top of screen * <b>m</b>	
Pump type:		Static WL * <b>m</b>	
Pumping rate (Q) <b>m³/h</b>		Potential drawdown <b>m</b>	
Duration <b>hrs</b>		Potential yield <b>m³/h</b>	
Specific capacity (Q/s) <b>m³/h/m</b>		Depth of borehole * <b>15 m</b>	

  

DEPTH (m)	PROFILE	WATER ZONES (Cumulative (0 to max))	WELL DIAGRAMME with STATIC AND DYNAMIN WATER LEVEL
5	Muckish brown clay + lateritic content		
10	Brownish - red clay + laterite and sand stone		
15	Brownish red clay + siltstone		
20			
25			
30			
35			
40			
45			
50			
55			
60			
65			
70			
75			
80			
85			
90			

  

Gravel for gravel pack		M	
Cement for grouting		KG	
Bentonite for grouting		M	
Installation of grout seal		M	
Cleaning & development		HRS	
Centralisers fitted	Yes	No	
Safety cap fitted	Yes	No	
Backfill aband. BH	Yes	No	
Disinfection date			
Platform construct. date			
Platform transport adjust.		KM	
Cut access to site		KM	

Edal drilling Company (Contractor)



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OWNER NAME	REALINI BADER/TECHSULT	DEPTH OF HOLES (m)		15	
OWNER ADDRESS	CITY HALL,WALLACE JOHNSON STREET,FREETOWN	WEATHER		SUNNY	
RIG MAKE	PRD 250	USE		CITY HALL	
COMPRESSOR MAKE	ELGI 900 cfm/ 200 psi	DATE		START DATE:	21/06/14
				COMPLETION DATE:	21/06/14
BORE-HOLE REFERENCE NO.	BORE-HOLE (Two) 2	DRILLING METHOD		AIR LIFT	
LITHOLOGICAL BOUNDARIES AND SAMPLE FORMATION.					
DEPTH OF CONTACT ZONE		DRILLING PROCESS			REMARKS : (Drilling Method including change of bit)
DEPTH	SAMPLE	FROM	TO	PENETRATION RATE (m/min)	
0-5	5	11:23	11:25	2.50	Reddish-brown clay+ with lateritic content
5-10	5	11:28	11:34	0.83	Brownish-red clay+ laterite and sandstone
10-15	5	11:37	11:39	2.50	Brownish-red clay + siltstone

N.B Meet rock water/surface water: NIL

