

GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: NS1, BH-63 Sheet No: 1 of 3 GROUND ELEVATION, EL (m): 14.140 CHAINAGE : STA 14+535, CL												
LOCATION : Bivagama - Kaduwela		GROUND WATER LEVEL (m) : 10.70												
DATE : From : 17/12/2006 To: 18/12/2006														
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	STANDARD PENETRATION TEST	TEST SAMPLE METHOD	DEPTH (GWL)	REMARKS
0														
1		1.15 - 1.45	1.67/30				VERY STIFF REDDISH BROWN YELLOWISH SANDY LATERITIC CLAY WITH LATERITE NODULES		16			D		
2		2.15 - 2.45	15/30		RED	SANDY CLAY			15			S		
3	2.90	3.15 - 3.45	13/30						13			W		
4		4.15 - 4.45	10/30						10			S		
5		5.15 - 5.45	12/30				MEDIUM DENSE YELLOWISH BROWN, REDDISH BROWN SILTY SAND WITH LATERITIC CLAY AND LATERITE NODULES		12			W		
6		6.15 - 6.45	9/30		YELLOW	SILTY SAND			9			S		
7		7.15 - 7.45	14/30						14			W		
8		8.15 - 8.45	17/30						17			S		
9	9.10	9.15 - 9.45	35/30		YELLOW	SANDY CLAY	HARD YELLOW, YELLOWISH BROWN SANDY LATERITIC CLAY		35			W		
10														

GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: NS1, BH-63 Sheet No: 2 of 3 GROUND ELEVATION, EL (m): 14.140 CHAINAGE : STA 14+535, CL												
LOCATION : Bivagama - Kaduwela		GROUND WATER LEVEL (m) : 10.70												
DATE : From : 17/12/2006 To: 18/12/2006														
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	STANDARD PENETRATION TEST	TEST SAMPLE METHOD	DEPTH (GWL)	REMARKS
0														
10.30	1.20	10.15	16/30				SAME AS PREVIOUS DESCRIPTION		16			W		
11.15	20/30	11.15	20/30						20			S		
12.15	30/30	12.15	30/30						30			W		
13.15	30/30	13.15	30/30						30			S		
14.15	30/30	14.15	30/30						30			W		
15.15	30/30	15.15	30/30				COMPLETELY WEATHERED ROCK		30			S		
16.15	30/30	16.15	30/30		PINK	COMPLETELY WEATHERED ROCK	PINK, YELLOWISH BROWN, REDDISH BROWN FINE SAND WITH MINOR CONTENT OF TRACES OF MICA SHOWS RELICT STRUCTURE COMPLETELY WEATHERED ROCK		30			S		
17.15	30/30	17.15	30/30						30			W		
18.15	30/30	18.15	30/30						30			S		
19.15	30/30	19.15	30/30						30			W		
20														



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GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: NSI, BH-63 Sheet No: 3 of 3 COORDINATES X=111 902.744 Y=194 812.158 GROUND ELEVATION, EL. (m): 14.140 CHAINAGE : STA 14+535, CL GROUND WATER LEVEL (m): 10.70										
LOCATION : Bivagama - Kaduwela		DATE : From : 17/12/2006 To: 18/12/2006										
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	STANDARD PENETRATION TEST		TEST SAMPLE		REMARKS
								DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	METHOD	
20	20.45	10.15					SAME AS PREVIOUS DESCRIPTION	20.15	50		S	
21							END OF BORING	20.45 - 20.20			W	
22											S	
23											W	
24											S	
25											W	
26											S	
27											W	
28											S	
29											W	
30											S	

GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: NSI, BH-64 Sheet No: 1 of 3 COORDINATES X=111 777.926 Y=194 804.973 GROUND ELEVATION, EL. (m): 21.087 CHAINAGE : STA 14+550 R GROUND WATER LEVEL (m): 8.70										
LOCATION : Bivagama - Kaduwela		DATE : From : 19/01/2007 To: 19/01/2007										
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	STANDARD PENETRATION TEST		TEST SAMPLE		REMARKS
								DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	METHOD	
0											D	
1											W	
2											W	
3											W	
4											W	
5											W	
6											W	
7											W	
8											W	
9											W	
10											W	
											W	



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LOCATION : Bivagama - Kaduwela		GROUND WATER LEVEL (m): 8.70											
DATE : From : 16/12/2006	To: 17/12/2006												
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	STANDARD PENETRATION TEST		TEST SAMPLE		REMARKS	
								DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	METHOD		DEPTH (GWL)
10													
11	11.50	11.50	11.50				SAME AS PREVIOUS DESCRIPTION					W	
12												W	
13												W	
14												W	
15												W	
16												W	
17												W	
18												W	
19												W	
20												W	
						BROWN WEATHERED ROCK							
						COMPLETELY WEATHERED ROCK							
						WASHED SAMPLE : BROWN, LIGHT GREY FINE SAND WITH TRACES OF MICA AND WEATHERED FELDSPAR PARTICLES AND SMALL GARNET GRAINS COMPLETELY WEATHERED ROCK							



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LOCATION : Bivagama - Kaduwela		GROUND WATER LEVEL (m): 8.70											
DATE : From : 16/12/2006	To: 17/12/2006												
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	STANDARD PENETRATION TEST		TEST SAMPLE		REMARKS	
								DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	METHOD		DEPTH (GWL)
20													
21	21.00	11.50	11.50				SAME AS PREVIOUS DESCRIPTION					W	
22												W	
23												W	
24												W	
25												W	
26												W	
27												W	
28												W	
29												W	
30							END OF BORING					W	



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GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No.: NS1, BH-65 Sheet No: 1 of 2 GROUND ELEVATION, EL (m): 3.214 CHAINAGE : STA 12+160, CL		COORDINATES: X=111 895 353 Y=194 727.533		LOCATION : Bivagama - Kaduwela		GROUND WATER LEVEL (m) : 0.4					
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	STANDARD PENETRATION TEST	TEST SAMPLE	REMARKS
0	1	2	3	4	5	6	7	8	9	10	11	12	13
0													
1					BROWN	ORGANIC CLAY	VERY SOFT BROWN, LIGHT BROWN FINE SANDY CLAY WITH ORGANIC CLAY	1.15 - 1.45	0 / 30				
2	2.00	2.00	2.00		BLACK	ORGANIC CLAYEY SAND	VERY LOOSE BLACK, DARK BROWN ORGANIC CLAYEY FINE TO MEDIUM SAND	2.15 - 2.45	0 / 30				
3					BROWN	CLAYEY SAND	MEDIUM DENSE LIGHT BROWN, BROWN CLAYEY FINE SAND	3.15 - 3.45	22 / 30				
4	4.20	1.60			GREY	COMPLETELY WEATHERED ROCK	DARK GREY, WHITISH GREY FINE SAND WITH WEATHERED FELDSPAR SHOWS RELICT STRUCTURE COMPLETELY WEATHERED ROCK	4.15 - 4.45	29 / 30				
5								5.15 - 5.45	50 / 30				
6	6.00	1.80						6.15 - 6.45	50 / 30				
7								7.15 - 7.45	50 / 30				
8					GREY	COMPLETELY WEATHERED ROCK	WHITISH GREY FINE SAND WITH ORGANIZED CLAY AND FINE WEATHERED FELDSPAR COMPLETELY WEATHERED ROCK	8.15 - 8.45	50 / 30				
9								9.15 - 9.45	50 / 30				
10													

GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No.: NS1, BH-65 Sheet No: 2 of 2 GROUND ELEVATION, EL (m): 3.214 CHAINAGE : STA 12+160, CL		COORDINATES: X=111 895 353 Y=194 727.533		LOCATION : Bivagama - Kaduwela		GROUND WATER LEVEL (m) : 0.4					
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	STANDARD PENETRATION TEST	TEST SAMPLE	REMARKS
10	11	12	13	14	15	16	17	18	19	20	21	22	23
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													



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LOCATION : Bivagama- Kaduwela										DATE : From : 29/12/2006 To: 30/12/2006									
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	STANDARD PENETRATION TEST		TEST SAMPLE		REMARKS				
												BLOWS / cm	DEPTH (m)	METHOD	DEPTH (GWL)				
20																			
21																			
22							WASHED SAMPLE WHITISH GREY FINE SAND WITH FINE FELDSPAR PARTICLES, ANGULAR TO SUBANGULAR FELDSPAR GRAINS AND LATERITE NODULES												
23																			
24		24.00	#####				END OF BORING												
25																			
26																			
27																			
28																			
29																			
30																			



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LOCATION : Bivagama- Kaduwela										DATE : From : 08/01/07 To: 09/01/07									
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	STANDARD PENETRATION TEST		TEST SAMPLE		REMARKS				
												BLOWS / cm	DEPTH (m)	METHOD	DEPTH (GWL)				
0																			
1																			
2					RED	SILTY SAND	DENSE RED, REDDISH BROWN SILTY FINE TO MEDIUM SAND WITH LATERITIC CLAY AND LATERITE NODULES	1.15- 1.45	24/30	24									
3								3.15- 3.45	31/30	31									
4		3.90	3.90					4.15- 4.45	10/30	10									
5					GREY	SANDY CLAY	STIFF WHITISH GREY SANDY LATERITIC CLAY WITH LATERITE NODULES AND KEOLINIZED CLAY	5.15- 5.45	12/30	12									
6		5.90	5.90					6.15- 6.45	17/30	17									
7					GREY	GRAVELLY CLAY	VERY STIFF WHITISH GREY KEOLINIZED CLAY WITH GRAVEL	7.45- 7.85	15/30	15									
8								8.15- 8.45	25/30	25									
9		8.45	2.55		GREY	COMPLETELY WEATHERED ROCK	WHITISH GREY FINE SAND WITH WEATHERED FELDSPAR PARTICLES COMPLETELY WEATHERED ROCK	9.15- 9.45	26/30	26									
10																			



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LOCATION : Bivagama- Kaduwela				DATE : From : 08/01/07 To: 09/01/07				GROUND WATER LEVEL (m): 10.70						
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	STANDARD PENETRATION TEST		TEST SAMPLE		REMARKS
										CURVE OF BLOWS	DEPTH (GWL)	METHOD		
10	16.00	7.55						10.15	27	27	10.70	W		
11							10.45	27/30				S		
12							11.00					W		
13							11.45	31/50				S		
14							12.00					W		
15							12.45	33/50				S		
16							13.00					W		
17							13.45	35/50				S		
18							14.00					W		
19							14.45	44/30				S		
20							15.00					W		
							15.45	38/20				S		
							16.00					W		
							16.45	34/20				S		
							17.00					W		
							17.45	32/30				S		
							18.00					W		
							18.45	39/20				S		
							19.00					W		
							19.45	42/20				S		
												W		

GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I				BORING LOG				BOREHOLE No: NS1, BH-67 Sheet No: 3 of 3 COORDINATES: X=111 876.513 Y=194 583.749 GROUND ELEVATION, EL (m): 19.739 CHAINAGE : STA 14+765, CL						
LOCATION : Bivagama- Kaduwela				DATE : From : 08/01/07 To: 09/01/07				GROUND WATER LEVEL (m): 10.70						
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	STANDARD PENETRATION TEST		TEST SAMPLE		REMARKS
										CURVE OF BLOWS	DEPTH (GWL)	METHOD		
20								20.00			10.70	W		
21							20.45	50/20				S		
22							21.00					W		
23							21.45	54/50				S		
24														
25														
26														
27														
28														
29														
30														

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LOCATION : Bivagama- Kaduwela		DATE : From : 05/01/2007 To: 07/01/2007		DEPTH (m)		TEST SAMPLE				
DEPTH (m)	ELEVATION (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	METHOD	DEPTH (GWL)	REMARKS
0	SCALE (m)									
1	1.00	1.00		BROWN	SANDY CLAY	BROWN, REDDISH BROWN, SANDY LATERITIC CLAY WITH LATERITIC NODULE TOP SOIL.	1.15-1.45	13/20		
2						VERY STIFF, REDDISH BROWN, YELLOWISH BROWN, COARSE SANDY LATERITIC CLAY WITH LATERITIC NODULES.	2.15-2.45	20/30		
3							3.15-3.45	19/30		
4	4.00	3.00					4.15-4.45	22/30		
5							5.15-5.45	25/30		
6							6.15-6.45	25/30		
7				BROWN	SILTY CLAY	VERY STIFF, YELLOWISH BROWN, WHITISH GREY, REDDISH BROWN, SILTY KEOLINIZED CLAY WITH LATERITIC CLAY AND LATERITE NODULES.	7.15-7.45	39/30		
8							8.15-8.45	43/30		
9							9.15-9.45	19/30		
10										

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LOCATION : Bivagama- Kaduwela		DATE : From : 05/01/2007 To: 07/01/2007		DEPTH (m)		TEST SAMPLE				
DEPTH (m)	ELEVATION (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	METHOD	DEPTH (GWL)	REMARKS
10	SCALE (m)									
11							10.15-10.45	20/30		
12							11.15-11.45	31/20		
13						SAME AS PREVIOUS DESCRIPTION	12.15-12.45	23/30		
14							13.45-13.45	29/30		
15							14.15-14.45	33/30		
16							15.15-15.45	47/30		
17							16.15-16.45	48/30		
18				YELLOW	COMPLETELY WEATHERED ROCK	YELLOWISH WHITE, WHITISH GREY, SILTY KEOLINIZED CLAY WITH ANGULAR TO SUBANGULAR MEDIUM TO COARSE QUARTZ GRAINS SHOWS RELICT STRUCTURE COMPLETELY WEATHERED ROCK.	17.15-17.45	25/30		
19							18.15-18.45	30/30		
20							19.20-19.45	30/30		

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LOCATION : Bivagama - Kaduwela										GROUND WATER LEVEL (m): 9.80									
DATE : From : 05/01/2007 To: 07/01/2007																			
DEPTH (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / 50	CURVE OF BLOWS	METHOD	DEPTH (GWL)	REMARKS						
20	20.15	20.45	50/30					50	50/30		S								
21	21.15	21.45	50/20					50	50/20		W								
22	22.15	22.45	50/30					50	50/30		S								
23	23.15	23.45	50/30					50	50/30		W								
24	24.15	24.45	50/30					50	50/30		S								
25	25.15	25.45	50/30					50	50/30		W								
26	26.15	26.45	50/20					50	50/20		S								
27	27.15	27.45	50/20					50	50/20		W								
28	28.15	28.45	50/20					50	50/20		S								
29	29.15	29.45	50/20					50	50/20		W								
30	30.00	10.80					END OF BORING												

GEO TECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I										BOREHOLE No: NS1, BH-69 Sheet No: 1 of 2 COORDINATES: X=111 795.509 Y=194 228.164 GROUND ELEVATION. EL (m): 1.550 CHAINAGE : STA 15+130. CL									
LOCATION : Bivagama - Kaduwela										GROUND WATER LEVEL (m): 0.20									
DATE : From : 29/01/2007 To: 29/01/2007																			
DEPTH (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / 50	CURVE OF BLOWS	METHOD	DEPTH (GWL)	REMARKS						
1	1.15	1.45	0/30		BROWN	SANDY ORGANIC CLAY	VERY SOFT BROWN, LIGHT BROWN FINE SANDY ORGANIC CLAY WITH ORGANIC MATTER	1.15	0/30		D								
2	2.10	2.15	2.10					2.15	0/30		S								
3	3.15	3.45	9/30		BLACK	ORGANIC CLAY	FIRM BLACK, LIGHT BROWN ORGANIC CLAY WITH SOME SAND	3.15	9/30	9	W								
4	4.00	4.45	1/30		GREY	CLAYEY SAND	MEDIUM DENSE GREY SLIGHTLY CLAYEY FINE SAND	4.45	20/30	20	W								
5	5.45	5.15	0/30		WHITE	CLAYEY SAND	LOOSE WHITE OFF WHITE SLIGHTLY CLAYEY FINE TO MEDIUM SAND	5.15	7/30	7	W								
6	6.20	6.45	1/30					6.45	11/30	11	S								
7	7.45	7.45	32/30					7.45	32/30	32	W								
8	8.45	8.45	46/30		WHITE	COMPLETELY WEATHERED ROCK	WHITISH GREY OFF WHITE KEOLINIZED CLAY WITH WEATHERED FELDSPAR PARTICLES AND TRACES OF MICA SHOWS RELICT STRUCTURE COMPLETELY WEATHERED ROCK	8.45	46/30	46	S								
9	9.45	9.45	24/30					9.45	24/30	24	W								
10																			


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GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: NSI, BH-69 Sheet No: 2 of 2 COORDINATES: X=111 795.309 Y=194 228.164 GROUND ELEVATION, EL. (m): 1.550 CHAINAGE : STA 15+130, CL											
LOCATION : Bivagama - Kaduwela		GROUND WATER LEVEL (m): 0.20											
DATE	From : 29/01/2007	To : 29/01/2007											
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	STANDARD PENETRATION TEST	TEST SAMPLE	REMARKS
10		10.15						10.15	20/20	30		W	
		10.45						10.45	20/20	44		S	
		11.15						11.15	44/20	50		W	
		11.45						11.45	44/20	50		S	
		12.15						12.15	50/20	50		W	
		12.45						12.45	50/20	50		S	
		13.15						13.15	50/20	50		W	
		13.45						13.45	50/20	50		S	
		14.15						14.15	50/20	50		W	
		14.45						14.45	50/20	50		S	
		15.15						15.15	50/20	50		W	
		15.45						15.45	50/20	50		S	
		16.15						16.15	50/20			W	
		16.45	10.50				ROCK LEVEL						
		17					END OF BORING						
		18											
		19											
		20											

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GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: NSI, BH-70 Sheet No: 1 of 2 COORDINATES: X=111 763.733 Y=194 130.114 GROUND ELEVATION, EL. (m): 1.804 CHAINAGE : STA 15 + 233, CL											
LOCATION : Bivagama - Kaduwela		GROUND WATER LEVEL (m): 0.30											
DATE	From : 30/01/2007	To : 30/01/2007											
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	STANDARD PENETRATION TEST	TEST SAMPLE	REMARKS
0													
1	0.90	0.90	0.90		GREY	SANDY CLAY	VERY SOFT GREY, LIGHT GREY FINE SANDY PLASTIC CLAY	1.15 - 1.45	0/20	0		D	
2					BLACK	PEAT	VERY SOFT BLACK PEAT WITH DECOMPOSED TIMBER PARTICLES	2.15 - 2.45	0/3	0		S	
3								3.15 - 3.45	0/20	0		UD	
4					GREY	ORGANIC CLAY	VERY SOFT GREY, LIGHT GREY ORGANIC CLAY WITH PEAT AND FINE SANDY CLAY AND DECOMPOSED TIMBER PARTICLES	4.15 - 4.45	0/20	0		S	
5					GREY	SANDY CLAY	STIFF GREY, LIGHT GREY FINE SANDY PLASTIC CLAY	5.15 - 5.45	12/20	12		W	
6					GREY	SANDY CLAY	VERY STIFF GREY, LIGHT GREY FINE SANDY PLASTIC CLAY	6.15 - 6.45	24/20	24		S	
7								7.15 - 7.45	24/20	24		W	
8					GREY	CLAYEY SAND	MEDIUM DENSE WHITISH GREY CLAYEY FINE SAND	8.15 - 8.45	31/20	31		S	
9								9.15 - 9.45	25/20	25		W	
10							SAME AS NEXT DESCRIPTION					S	

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GEO TECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION 1				BOREHOLE No: NS1, BH-70 Sheet No: 2 of 2 COORDINATES: X=111 763.733 Y=194 130 114 GROUND ELEVATION, EL. (m): 1.804 CHAINAGE : STA 15 + 233, CL										
LOCATION : Bivagama - Kaduwela				GROUND WATER LEVEL (m) : 0.30										
DATE : From : 30/01/2007 To : 30/01/2007														
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	STANDARD PENETRATION TEST	METHOD	DEPTH (GWD)	REMARKS
10		10.15							45/50			W		
		10.45							45/50			W		
11		11.15							50/50			S		
		11.45							50/50			W		
12		12.15					GREY WHITISH GREY FINE SANDS WITH TRACES OF MICAC. SHOWS RELICT STRUCTURE COMPLETELY WEATHERED ROCK		50/50			S		
		12.45							50/50			W		
13		13.15							50/50			S		
		13.45							50/50			W		
14		14.15							50/50			S		
		14.45							50/50			W		
15	15.00	15.00	6.00				ROCK LEVEL							
16							END OF BORING							
17														
18														
19														
20														

GEO TECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION 1				BOREHOLE No: 71 Sheet No: 1 of 2 COORDINATES: X=111 741.094 Y=194 066.988 GROUND ELEVATION, EL. (m): 2.051 CHAINAGE : STA 15+300, CL										
LOCATION : Bivagama - Kaduwela				GROUND WATER LEVEL (m) : 0.40										
DATE : From : 31/01/2007 To : 31/01/2007														
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	STANDARD PENETRATION TEST	METHOD	DEPTH (GWD)	REMARKS
0												D		
1					GREY	SILTY CLAY	VERY SOFT GREY, SILTY PLASTIC CLAY	1.15 - 1.45	0/30			S		
2		2.23	2.25					2.15 - 2.45	0/30			UD		
3					BLACK	PEAT	VERY SOFT BLACK, LIGHT BROWN BLACK PEAT WITH DECOMPOSED TIMBER PARTICLES	3.15 - 3.45	0/30			S		
4								4.15 - 4.45	0/30			W		
5		4.80	2.55					5.15 - 5.45	15/30			S		
6		6.10	1.30		GREY	CLAYEY SILT	LOOSE GREY, LIGHT GREY CLAYEY SILT WITH POCKETS OF CLAY	6.15 - 6.45	15/30			W		
7		7.00	0.90		BLACK	SILTY SAND	LOOSE BLACK, GREY CLAYEY SILTY FINE SAND	7.15 - 7.45	30/30			S		
8					GREY	SILTY SAND	MEDIUM DENSE GREY, LIGHT GREY CLAYEY FINE SILTY SAND	8.15 - 8.45	47/30			W		
9		9.20	2.20					9.15 - 9.45	32/30			S		
10							SAME AS NEXT DESCRIPTION	9.45 - 9.75				W		

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GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: <u>71</u> Sheet No: <u>2</u> of <u>2</u>										
COORDINATES: X=111 741.094 Y=194 066.988		GROUND ELEVATION, EL. (m): <u>2.051</u> CHAINAGE : STA 15+300, CL										
LOCATION : <u>Bivagama - Kaduwela</u>		GROUND WATER LEVEL (m) : <u>0.40</u>										
DATE : From : <u>31/01/2007</u> To : <u>31/01/2007</u>												
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOR	SOIL NAME	DESCRIPTION	BLOWS / cm	CURVE OF BLOWS	STANDARD PENETRATION TEST	TEST SAMPLE	REMARKS
10		10.15						10.15-10.45 36/30				
11		11.15					WHITE OFF WHITE KEOLINIZED CLAY WITH WEATHERED ORGANIC PARTICLES AND COMPLETELY WEATHERED ROCK	11.15-11.45 50/30				
12		12.15				COMPLETELY WEATHERED ROCK		12.15-12.45 50/30				
13		13.15						13.15-13.45 50/30				
14	14.00	4.80				ROCK LEVEL						
15							END OF BORING					
16												
17												
18												
19												
20												

GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: <u>NS1, BH-72</u> Sheet No: <u>1</u> of <u>2</u>										
COORDINATES: X=111 704.785 Y=193 973.960		GROUND ELEVATION, EL. (m): <u>1.124</u> CHAINAGE : STA 15+400, CL										
LOCATION : <u>Bivagama - Kaduwela</u>		GROUND WATER LEVEL (m) : <u>0.50</u>										
DATE : From : <u>01/02/2007</u> To : <u>01/02/2007</u>												
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOR	SOIL NAME	DESCRIPTION	BLOWS / cm	CURVE OF BLOWS	STANDARD PENETRATION TEST	TEST SAMPLE	REMARKS
1		1.15					VERY SOFT YELLOW, YELLOWISH BROWN FINE SANDY CLAY	1.15-1.45 0/30				
2		2.15						2.15-2.45 0/30				
3		3.15					VERY SOFT BLACK, DARK BROWN ORGANIC CLAYEY FINE SAND WITH LOW CONTENT OF INORGANIC CLAY	3.15-3.45 0/30				
4		4.15						4.15-4.45 0/30				
5		5.10	2.95					5.10-5.45 4/30				
6		6.15					LOOSE BLACK DARK BROWN ORGANIC CLAYEY FINE SAND WITH SMALL CONTENT OF SILT	6.15-6.45 12/30				
7		7.10	1.30				MEDIUM DENSE BLACK DARK BROWN ORGANIC CLAYEY FINE SAND	7.10-7.45 35/30				
8		8.15					DENSE WHITISH GREY FINE SAND WITH SILT	8.15-8.45 50/30				
9		9.15					WASHED SAMPLE: WHITISH GREY FINE SAND WITH TRACES OF MICA	9.15-9.45 50/30				
10												



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GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: NSI, BH-72 Sheet No: 2 of 2 GROUND ELEVATION, EL. (m): 1.124 CHAINAGE : STA 15+400, CL		BOREHOLE No: NSI, BH-73 Sheet No: 1 of 1 GROUND ELEVATION, EL. (m): 1.939 CHAINAGE : STA 15+500, CL									
LOCATION : Bivagama - Kaduwela		DATE : From : 01/02/2007 To: 01/02/2007		GROUND WATER LEVEL (m) : 0.50									
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	METHOD	DEPTH (GWL)	REMARKS
10	10.00	10.45	2.80				SAME AS PREVIOUS DESCRIPTION	10.45	50/20		P		
11							ROCK LEVEL	10.45					
12							END OF BORING						
13													
14													
15													
16													
17													
18													
19													
20													

GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: NSI, BH-73 Sheet No: 1 of 1 GROUND ELEVATION, EL. (m): 1.939 CHAINAGE : STA 15+500, CL		BOREHOLE No: NSI, BH-73 Sheet No: 1 of 1 GROUND ELEVATION, EL. (m): 1.939 CHAINAGE : STA 15+500, CL									
LOCATION : Bivagama - Kaduwela		DATE : From : 2007/1/2 To: 2007/1/2		GROUND WATER LEVEL (m) : 0.40									
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	METHOD	DEPTH (GWL)	REMARKS
0							VERY SOFT, BROWN, YELLOWISH BROWN, SILTY CLAY WITH PLANT ROOTS	1.15-1.45	1/30		D		
1					BROWN	SILTY CLAY		1.45	1/30		S		
2	2.50	2.50						2.15-2.45	1/30		UD		
3					BLACK	PEATY ORGANIC CLAY	VERY SOFT, BLACK, BLACKISH BROWN, PEATY ORGANIC CLAY WITH TIMBER FRAGMENTS	3.15-3.45	2/30		S		
4								3.45-4.15	14/30		W		
5	4.90	2.40			GREY	BIOTITE GNEISS	ROCK LEVEL	4.15-4.45	57%		CS		
6	5.90	1.00			GREY	BIOTITE GNEISS	GREY WHITISH GREY MEDIUM GRAINED MODERATELY FRACTURED BIOTITE GNEISS				CS		
7	6.90	1.00			GREY	BIOTITE GNEISS	GREY LIGHT GREY, MEDIUM GRAINED BIOTITE GNEISS				CS		
8	7.40	0.50			GREY	BIOTITE GNEISS	GREY, LIGHT GREY, MEDIUM GRAINED BIOTITE GNEISS				CS		
9							END OF BORING						
10													



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LOCATION : Bivagama - Kaduwela		DATE : From : 20/01/2007 To: 20/01/2007		STANDARD PENETRATION TEST		TEST SAMPLE	
DEPTH (m)	ELEVATION (m)	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	METHOD	DEPTH (GWL)	REMARKS
0	SCALE (m)						
1	0.80, 0.80	BROWN SANDY CLAY			D		
		BROWN, LIGHT BROWN FINE TO MEDIUM SANDY CLAY			S		
1.45	0.65	VERY STIFF YELLOW, FINE TO MEDIUM SANDY CLAY WITH GRAVEL	14.5 - 22.20	+ 22	W		
1.70	0.73	SAND					
		WASHED SAMPLE: WHITISH GREY FINE TO MEDIUM SAND WITH ANGULAR TO SUBANGULAR QUARTZ GRAINS					
2	1.70, 1.00	BIOTITE GNEISS	98%		CS		
		GREY	0%				
3	2.70, 1.00	BIOTITE GNEISS	100%		CS		
		GREY	80%				
4	3.70, 1.00	GREY LIGHT GREY SLIGHTLY FRACTURED SLIGHTLY WEATHERED GARNET BIOTITE GNEISS	100%		CS		
		GREY LIGHT GREY SLIGHTLY FRACTURED SLIGHTLY WEATHERED GARNET BIOTITE GNEISS	100%				
5		END OF BORING	C				
6							
7							
8							
9							
10							

GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: NS1, BH-75 Sheet No: 1 of 1 COORDINATES: X=111 516,673 Y=193 554,216		GROUND ELEVATION, EL. (m): 4.028 CHAINAGE : STA 15+860, CL		GROUND WATER LEVEL (m) : 0.00	
LOCATION : Bivagama - Kaduwela		DATE : From : 21/01/2007 To: 21/01/2007		STANDARD PENETRATION TEST		TEST SAMPLE	
DEPTH (m)	ELEVATION (m)	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	METHOD	DEPTH (GWL)	REMARKS
0	SCALE (m)						
1	1.65	YELLOW SANDY CLAY	14.5 - 15.0 / 20		D		
		HARD YELLOWISH BROWN REDDISH BROWN SANDY LATERITIC CLAY WITH LATERITE NODULES			S		
2	2.65	FRESH BIOTITE GNEISS	100%		CS		
		GREY					
3	3.65	FRESH BIOTITE GNEISS	89%		CS		
		GREY MEDIUM GRAINED SLIGHTLY FRACTURED FRESH BIOTITE GNEISS					
4	4.65	FRESH BIOTITE GNEISS	100%		CS		
		GREY FRESH BIOTITE GNEISS					
5		END OF BORING	C				
6							
7							
8							
9							
10							

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GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: NS1, BH-76 Sheet No: 1 of 1 COORDINATES: X=111 514.110 Y=193 463.138 GROUND ELEVATION, EL (m): 2.012 CHAINAGE : STA 15+946, R-30 GROUND WATER LEVEL (m): 0.25										
LOCATION : Biyagama-Kaduwela		DATE : From : 18/12/2006 To: 18/12/2006										
DEPTH (m)	ELEVATION (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	STANDARD PENETRATION TEST	TEST SAMPLE	REMARKS
0	SCALE (m)											
1	1.20	1.20		BROWN	FILL	VERY SOFT BROWN DARK BROWN SILTY CLAY WITH GRASS ROOTS FILL	1.15-1.45 1.45-1.90		1		D	
2				GREY	CLAYEY SAND	MEDIUM LIGHT GREY, LIGHT BROWN, SLIGHTLY CLAYEY FINE TO MEDIUM SAND	2.45-2.45 2.45-1.90		1		S	
3	3.00	1.80					3.45-3.45 3.45-6.30		5		W	
4							4.45-4.45 4.45-13.50		13		S	
5							5.45-5.45 5.45-16.50		16		W	
6							6.45-6.45 6.45-14.20		14		S	
7	7.00	4.00		REDDISH BROWN	SANDY CLAY	VERY STIFF, REDDISH BROWN YELLOWISH BROWN GREY COARSE SANDY LATERITIC CLAY WITH VARIOUS SIZE QUARTZ GRAINS	7.45-7.45 7.45-19.50		18		W	
8	8.65	1.65					8.45-8.45 8.45-19.50		19		S	
9	8.95	0.30		GREY	COMPLETELY WEATHERED ROCK	MEDIUM TO COARSE SANDY CLAY WITH ANGLULAR QUARTZ SUBANGULAR QUARTZ GRAINS COMPLETELY WEATHERED ROCK LEVEL					W	
10												

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LOCATION : Kadawatha		DATE : From : 2007/04/07 To: 2007/04/07										
DEPTH (m)	ELEVATION (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	STANDARD PENETRATION TEST	TEST SAMPLE	REMARKS
0	SCALE (m)											
1	0.90	0.90		YELLOW SANDY CLAY	YELLOW SANDY CLAY	YELLOW YELLOWISH BROWN FINE SANDY CLAY TOP SOIL	1.15-1.45 1.45-11.90		7		D	
2	2.00	1.10		RED	SANDY CLAY	VERY STIFF RED REDDISH BROWN SANDY LATERITIC CLAY WITH LATERITIC NODULES	2.15-2.15 2.15-2.90		20		S	
3	2.70	0.70		RED	COMPLETELY WEATHERED ROCK	RED ANGLULAR SUB ANGLULAR GRANS COMPLETELY WEATHERED ROCK	3.15-3.15 3.15-21.90		56		W	
4	3.40	0.70		GRAY	BIOTITE GNEISS	GRAY SLIGHTLY WEATHERED, FAINTLY DISCOLOURED THINLY FOLIATED SLIGHTLY FRACTURED GARNET BIOTITE GNEISS	4.45-4.45 4.45-82%		82%		C	
5	4.40	1.00		GRAY	BIOTITE GNEISS	GRAY SLIGHTLY WEATHERED, FAINTLY DISCOLOURED THINLY FOLIATED SLIGHTLY FRACTURED GARNET BIOTITE GNEISS	5.40-5.40 5.40-82%				C	
6	5.40	1.00				END OF BORING						
7												
8												
9												
10												

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GEO TECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: NS1, BH-78 Sheet No: 1 of 1 COORDINATES: X=111 457.975 Y=193 484.517		GROUND ELEVATION, EL. (m): 3.622 CHAINAGE : STA 15+946 R		GROUND WATER LEVEL (m): 3.20						
LOCATION : Bivagama - Kaduwela		DATE : From : 23/01/2007 To: 24/01/2007		TEST SAMPLE		STANDARD PENETRATION TEST						
DEPTH (m)	ELEVATION (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	METHOD	DEPTH (GWD)	REMARKS
0	SCALE (m)											
1	1.00	1.00	YELLOW	YELLOW	SILTY CLAY	YELLOW, YELLOWISH BROWN, SILTY CLAY WITH PLANT FRAGMENTS TOPSOIL	1.15- 1.45	19.20	18	W		
2	2.45	2.45				MEDIUM DENSE RED REDDISH BROWN, YELLOWISH BROWN SILTY FINE TO MEDIUM SAND WITH LATERITIC CLAY AND LATERITE NODULES	2.45- 2.45	19.20	13	S		
3	3.15	3.15	BROWN	BROWN	SILTY SAND		3.15- 3.45	19.20	15	S		
4	4.00	4.00			COMPLETELY WEATHERED ROCK	CLAY CONTENT INCREASES WITH DEPTH	4.15- 4.45	19.20	13	W		
5	5.25	4.25				REDDISH BROWN, SLIGHTLY SILTY FINE SAND WITH TRACES OF MICA	5.15- 5.45	25.00	23	W		
6	5.45	0.20			BIOTITE GNEISS	COMPLETELY WEATHERED ROCK LEVEL				CS		
7	6.50	1.25			BIOTITE GNEISS	GREY WHITISH GREY MEDIUM GRAINED FRESH BIOTITE GNEISS	100%	100%		CS		
8	7.50	1.00			BIOTITE GNEISS	GREY WHITISH GREY MEDIUM GRAINED FRESH BIOTITE GNEISS	100%	100%		CS		
9	9.00	1.50			BIOTITE GNEISS	GREY, WHITISH GREY, MEDIUM GRAINED FRESH BIOTITE GNEISS	100%	100%		CS		
10					END OF BORING		C	r				

GEO TECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: NS1, BH-79 Sheet No: 1 of 1 COORDINATES: X=111 468.677 Y=193 422.718		GROUND ELEVATION, EL. (m): 0.507 CHAINAGE : STA 16+000, CL		GROUND WATER LEVEL (m): 0.60						
LOCATION : Bivagama - Kaduwela		DATE : From : 03/02/2007 To: 03/02/2007		TEST SAMPLE		STANDARD PENETRATION TEST						
DEPTH (m)	ELEVATION (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	METHOD	DEPTH (GWD)	REMARKS
0	SCALE (m)											
1	1.15	1.15		YELLOW	SANDY CLAY	SOFT YELLOW, YELLOWISH BROWN SILTY SANDY CLAY WITH DECOMPOSED TIMBER PARTICLES	1.15- 1.45	37.00	3	W		
2	2.15	2.45					2.15- 2.45	47.00	4	S		
3	3.15	3.15		BLACK	SANDY CLAY	BLACK DARK BROWN SANDY CLAY WITH PLANT STEMS AND DECOMPOSED TIMBER PARTICLES	3.15- 3.45	14.00	14	W		
4	4.00	4.00					4.15- 4.45	57.00	5	S		
5	5.15	5.15		GREY	CLAYEY SAND	MEDIUM DENSE GREY LIGHT GREY CLAYEY FINE TO MEDIUM SAND	5.15- 5.45	37.00	3	W		
6	5.90	1.90					6.15- 6.45	19.00	19	S		
7	7.00	1.10		GREY	CLAYEY SAND	MEDIUM DENSE GREY LIGHT GREY CLAYEY FINE TO MEDIUM SAND	7.15- 7.45	50.00		W		
8	8.00	1.00		GREY	COMPLETELY WEATHERED ROCK	GREY, BLACKISH BROWN FINE SAND WITH TRACES OF MICA SHOWS RELICT STRUCTURE COMPLETELY WEATHERED ROCK	7.45- 8.00	50.00		W		
9					END OF BORING							
10												

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GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: NS1, BH-80 Sheet No: 1 of 2 COORDINATES: X=111 442.412 Y=193 327.037		GROUND ELEVATION, EL. (m): CHAINAGE : STA 16+100, CL		GROUND WATER LEVEL (m): 0.00						
LOCATION : Bivagama - Kaduwela		DATE : From : 02/02/2007 To: 02/02/2007		LOCATION : Bivagama - Kaduwela		DATE : From : 02/02/2007 To: 02/02/2007						
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	DESCRIPTION	DEPTH (m)	BLOWS / ft	STANDARD PENETRATION TEST		TEST SAMPLE		REMARKS
0												
1					SOFT BROWN LIGHT BROWN SILTY PLASTIC CLAY WITH HIGH AMOUNT OF ORGANIC CLAY AND DECOMPOSED TIMBER PARTICLES	1.15-1.45	3/30					
2						1.45-2.15	3/30					
3						2.15-2.45	3/30					
4						2.45-3.15	3/30					
5						3.15-3.45	3/30					
6						3.45-4.15	8/30					
7						4.15-4.45	8/30					
8						4.45-5.15	29/30					
9						5.15-5.45	11/30					
10						5.45-6.15	11/30					
						6.15-6.80	30/30					
						6.80-7.15	>50/30					
						7.15-8.15	>50/30					
						8.15-9.15	>50/30					
						9.15-9.45	>50/30					
						9.45-10.30	>50/30					

GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: NS1, BH-80 Sheet No: 2 of 2 COORDINATES: X=111 442.412 Y=193 327.037		GROUND ELEVATION, EL. (m): CHAINAGE : STA 16+100, CL		GROUND WATER LEVEL (m): 0.00						
LOCATION : Bivagama - Kaduwela		DATE : From : 02/02/2007 To: 02/02/2007		LOCATION : Bivagama - Kaduwela		DATE : From : 02/02/2007 To: 02/02/2007						
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	DESCRIPTION	DEPTH (m)	BLOWS / ft	STANDARD PENETRATION TEST		TEST SAMPLE		REMARKS
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

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GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No.: NS1, BH-81 Sheet No: 1 of 3 COORDINATES: X=111425.317 Y=193259.276		BOREHOLE No.: NS1, BH-81 Sheet No: 1 of 3 COORDINATES: X=111425.317 Y=193259.276								
LOCATION : Bivagama - Kaduwela		DATE : From : 29/01/2007 To : 31/01/2007		GROUND WATER LEVEL (m) : 4.40								
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	SOIL NAME	DESCRIPTION	STANDARD PENETRATION TEST		TEST SAMPLE		REMARKS	
							DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	METHOD		DEPTH (GWL)
0												
1												
2					YELLOW SILTY CLAY	FIRM YELLOW YELLOWISH BROWN SILTY CLAY	1.15-1.45	3.30				
3							2.15-2.45	6.30				
4		4.10					3.15-3.45	6.30				
5					SILTY CLAY	VERY SOFT GREY WHITISH GREY SILTY CLAY	4.15-4.45	0.30				
6	6.00						5.15-5.45	1.30				
7					ORGANIC CLAY	SOFT BLACK BLACKISH BROWN SILTY ORGANIC CLAY	6.15-6.45	6.30				
8							7.15-7.45	3.30				
9					SILTY SAND	LOOSE BROWN DARK BROWN ORGANIC CLAYEY SILTY FINE SAND	8.15-8.45	7.30				
10							9.15-9.45	8.30				

GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No.: NS1, BH-81 Sheet No: 2 of 3 COORDINATES: X=111425.317 Y=193259.276		BOREHOLE No.: NS1, BH-81 Sheet No: 2 of 3 COORDINATES: X=111425.317 Y=193259.276								
LOCATION : Bivagama - Kaduwela		DATE : From : 29/01/2007 To : 31/01/2007		GROUND WATER LEVEL (m) : 4.40								
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	SOIL NAME	DESCRIPTION	STANDARD PENETRATION TEST		TEST SAMPLE		REMARKS	
							DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	METHOD		DEPTH (GWL)
10												
11												
12					BROWN CLAYEY SAND	MEDIUM DENSE BROWN LIGHT BROWN SLIGHTLY CLAYEY FINE TO MEDIUM SAND	11.15-11.45	21.2				
13					BROWN SILTY CLAY	VERY SOFT BROWN YELLOWISH BROWN SILTY CLAY WITH FINE SAND	12.15-12.45	2.3				
14							13.15-13.45	12.30				
15					BROWN SILTY CLAY	STIFF BROWN WHITISH GREY SILTY CLAY WITH FINE GRAVEL	14.15-14.45	13.30				
16							15.15-15.45	17.30				
17					COMPLETELY WEATHERED ROCK	BROWN LIGHT BROWN SLIGHTLY SILTY FINE TO MEDIUM ANGULAR TO SUBANGULAR SAND WITH TRACES OF MICA COMPLETELY WEATHERED ROCK LEVEL	16.15-16.45	22.30				
18					SILTY SAND	WASHED SAMPLE : BROWN LIGHT BROWN BLACK SLIGHTLY SILTY MEDIUM SAND WITH TRACES F. MICA	17.60	0.60				
19					BIOTITE GNEISS	GREY WHITISH GREY MEDIUM GRAVEL FRACTURED BIOTITE GNEISS	18.60	1.00				
20					BIOTITE GNEISS	SAME AS NEXT DESCRIPTION	19.60	1.00				



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GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: NS1, BH-81 Sheet No: 3 of 3 COORDINATES: X=111425.317 Y=193259.276		GROUND ELEVATION, EL. (m): 5.264 CHAINAGE : STA 16+170, CL		GROUND WATER LEVEL (m): 4.40						
LOCATION : Bivagama - Kaduwela		DATE : From : 29/01/2007 To: 31/01/2007		TEST SAMPLE		STANDARD PENETRATION TEST						
DEPTH (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	METHOD	DEPTH (GWL)	REMARKS
20.10	1.50	100%	1.50	GREY	BIOTITE GNEISS	GREY WHITISH GREY MEDIUM GRAINED DISCOLOURED MODERATELY FRACTURED BIOTITE GNEISS	100%	100%				
21.00	2.00	100%	2.00			GREY WHITISH GREY MEDIUM GRAINED MODERATELY FRACTURED BIOTITE GNEISS	100%	100%				
22						END OF BORING	C	T				
23												
24												
25												
26												
27												
28												
29												
30												

GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: NS1, BH-82 Sheet No: 1 of 4 COORDINATES: X=111408.417 Y=193190.843		GROUND ELEVATION, EL. (m): 5.456 CHAINAGE : STA 16+240, CL		GROUND WATER LEVEL (m): 5.40						
LOCATION : Bivagama - Kaduwela		DATE : From : 25/01/2007 To: 27/01/2007		TEST SAMPLE		STANDARD PENETRATION TEST						
DEPTH (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	METHOD	DEPTH (GWL)	REMARKS
1.15	7.90						1.15	7.90		D		
1.45	7.90						1.45	7.90		S		
2.15	6.90			YELLOW	SILTY CLAY	FIRM YELLOW, YELLOWISH BROWN, SILTY CLAY	2.15	6.90		W		
3.15							3.15			S		
3.45	7.90						3.45	7.90		W		
4.15							4.15			S		
4.45	22.90		4.00				4.45	22.90		W		
5.15							5.15			S		
5.45	7.90						5.45	7.90		W		
6.15				BROWN	SILTY SAND	MEDIUM DENSE LIGHT BROWN, SLIGHTLY CLAYEY SILTY MEDIUM SAND WITH ANGULAR TO SUBANGULAR QUARTZ GRAINS	6.15			S		
6.45	18.90						6.45	18.90		W		
7.15							7.15			S		
7.45	18.90						7.45	18.90		W		
8.15							8.15			S		
8.45	16.90			BROWN	GRAVELLY SAND	MEDIUM DENSE, LIGHT BROWN WHITISH GRAVELLY SAND WITH ANGULAR TO SUBANGULAR COARSE QUARTZ GRAINS	8.45	16.90		W		
9.15							9.15			S		
9.45	10.90						9.45	10.90		W		

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GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: NS1, BH-82 Sheet No: 2 of 4 GROUND ELEVATION, EL (m): 5.456 CHAINAGE : STA 16+240, CL		COORDINATES: X=111 408.417 Y=193 190.843		LOCATION : Bivagama - Kaduwela		DATE : From : 25/01/2007 To: 27/01/2007		GROUND WATER LEVEL (m) : 5.40				
DEPTH (m)	SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	STANDARD PENETRATION TEST		TEST SAMPLE		REMARKS	
									BLOWS / 30cm	CURVE OF BLOWS	DEPTH (GWL)	METHOD		
10			10.15	0.45	8.30							W		
11			11.15	1.45	17.30							S		
12			12.15	12.45	21.30			SAME AS PREVIOUS DESCRIPTION				W		
13			13.15	13.45	23.30							S		
14			14.15	14.45	0.30							W		
15	15.00	7.00	15.15	15.45	20.30							S		
16			16.15	16.45	0.30							W		
17			17.15	17.45	0.30			DENSE GRAYISH BROWN YELLOW GRAVELY SAND WITH COARSE GRAINED ANGULAR TO SUBANGULAR QUARTZ GRAINS				S		
18			18.15	18.45	50.30		BROWN GRAVELY SAND					W		
19			19.15	19.45	50.30							S		
20														

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DEPTH (m)	SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	STANDARD PENETRATION TEST		TEST SAMPLE		REMARKS
									BLOWS / 30cm	CURVE OF BLOWS	DEPTH (GWL)	METHOD	
20			20.15	20.45	50.30			SAME AS PREVIOUS DESCRIPTION					
21			21.15	21.15	6.00			WHITISH GREY SILTY FINE SAND WITH HIGH CONTENT OF MICA					
22			21.70	21.70		GREY	COMPLETELY WEATHERED ROCK	COMPLETELY WEATHERED ROCK					
23			23.20	23.20	1.50		SAND	WASHED SAMPLE: BLACKISH GREY, YELLOWISH BROWN ANGULAR TO SUBANGULAR QUARTZ GRAINS FINE SAND WITH MICA	0%				
24			24.20	24.20	1.50		BIOTITE GNEISS	YELLOWISH GREY HIGHLY DISCOLOURED HIGHLY FRACTURED BIOTITE GNEISS	13%				
25							SILTY SAND	WASHED SAMPLE: BLACKISH GREY SILTY FINE SAND WITH HIGH CONTENT OF MICA	0%				
26			26.20	26.20	1.50		SILTY SAND	WASHED SAMPLE: BLACKISH GREY SILTY FINE SAND WITH HIGH CONTENT OF MICA	0%				
27			27.20	27.20	1.50		SILTY SAND	WASHED SAMPLE: BLACKISH GREY SILTY FINE SAND WITH HIGH CONTENT OF MICA	0%				
28			28.70	28.70	1.00		BIOTITE GNEISS	GREY WHITISH GREY MEDIUM GRAINED MODRATLY FRACTURED FRESH BIOTITE GNEISS	100%	57%			
29			29.70	29.70	1.00		BIOTITE GNEISS	GREY WHITISH GREY MEDIUM GRAINED FRESH BIOTITE GNEISS	100%	98%			
30								SAME AS NEXT DESCRIPTION					

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GEOLOGICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I										
LOCATION : Bivagama - Kaduwela					BOREHOLE No: NSI, BH-82 Sheet No: 4 of 4 GROUND ELEVATION, EL (m): 5.456 CHAINAGE : STA 16+240, CL					
DATE : From : 25/01/2007 To: 27/01/2007					GROUND WATER LEVEL (m) : 5.40					
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	STANDARD PENETRATION TEST		REMARKS
								DEPTH (m)	BLOWS / cm	
30							GREY DARK GREY MEDIUM GRAINED FRESH BIOTITE GNEISS	100%		
31	30.70	1.00					END OF BORING	C	r	
32										
33										
34										
35										
36										
37										
38										
39										
40										

GEOLOGICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I										
LOCATION : Bivagama - Kaduwela					BOREHOLE No: NSI, BH-83 Sheet No: 1 of 2 GROUND ELEVATION, EL (m): CHAINAGE : STA 16+300, CL					
DATE : From : 11/02/2007 To: 20/07/12/2					GROUND WATER LEVEL (m) : 0.00					
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	STANDARD PENETRATION TEST		REMARKS
								DEPTH (m)	BLOWS / cm	
0										
1					YELLOW	SANDY CLAY	SOFT YELLOW, LIGHT BROWN FINE SANDY PLASTIC CLAY	1.45 - 2/30		
2								2.15 - 2/30		
3		2.45	2.45		BLACK	ROCK BOULDER	BLACK, LIGHT BROWN, CEMENTED POROUS SAND STONE	58%		
4		3.00	0.55		YELLOW	GRAVELLY SAND	VERY DENSE YELLOW, REDDISH BROWN GRAVELLY SAND WITH LATERITIC CLAY WITH LATERITE NODULES	3.45 - 48/30		
5		3.90	0.90					4.45 - 43/30		
6		6.00	2.10		GREY	COMPLETELY WEATHERED ROCK	DENSE GREY, LIGHT GREY FINE SAND WITH SMALL AMOUNT OF FINE GRAVEL	5.45 - 40/30		
7		6.35	0.35		GREY		WASHED SAMPLE: GREY FINE SAND WITH TRACES OF MICA, COMPLETELY WEATHERED ROCK	6.45 - 50/30		
8		7.90	1.55		DARK	FINE SAND	WASHED SAMPLE: DARK GREY FINE SAND WITH TRACES OF MICA	0%		
9		9.10	1.20		GREY	BIOTITE GNEISS	GREY MEDIUM GRAINED, MODERATELY FRACTURED BIOTITE GNEISS	57% - 27.50%		
10					GREY	BIOTITE GNEISS	GRAINED SLIGHTLY FRACTURED THINLY FOLIATED FAINTLY DISCOLOURED BIOTITE GNEISS	100%		

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LOCATION : Bivagama - Kaduwela					LOCATION : Bivagama - Kaduwela					BOREHOLE No: NSI, BH-83					BOREHOLE No: NSI, BH-84				
DATE : From : 11/02/2007 To: 2007/12/2					DATE : From : 31/01/2007 To: 31/01/2007					Sheet No : 2 of 2					Sheet No : 1 of 2				
COORDINATES: X=111 397.667 Y=193 131.520					COORDINATES: X=111 388.754 Y=193 072.192					GROUND ELEVATION, EL (m) : CHAINAGE : STA 16+300, CL					GROUND ELEVATION, EL (m) : CHAINAGE : STA 16+360, CL				
GROUND WATER LEVEL (m) : 0.00					GROUND WATER LEVEL (m) : 0.00														
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	STANDARD PENETRATION TEST		TEST SAMPLE		REMARKS							
								DEPTH (m)	BLOWS / cm	METHOD	DEPTH (GWL)								
10	10.10	1.00					SAME AS PREVIOUS DESCRIPTION												
11	11.10	1.00			GREY	BIOTITE GNEISS	BLACKISH GREY MEDIUM GRAINED FRESH BIOTITE GNEISS												
12							END OF BORING												
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			



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LOCATION : Bivagama - Kaduwela					LOCATION : Bivagama - Kaduwela					BOREHOLE No: NSI, BH-84					BOREHOLE No: NSI, BH-84				
DATE : From : 31/01/2007 To: 31/01/2007					DATE : From : 31/01/2007 To: 31/01/2007					Sheet No : 1 of 2					Sheet No : 1 of 2				
COORDINATES: X=111 388.754 Y=193 072.192					COORDINATES: X=111 388.754 Y=193 072.192					GROUND ELEVATION, EL (m) : CHAINAGE : STA 16+360, CL					GROUND ELEVATION, EL (m) : CHAINAGE : STA 16+360, CL				
GROUND WATER LEVEL (m) : 0.00					GROUND WATER LEVEL (m) : 0.00														
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	STANDARD PENETRATION TEST		TEST SAMPLE		REMARKS							
								DEPTH (m)	BLOWS / cm	METHOD	DEPTH (GWL)								
1	1.60	1.60			GREY	SANDY CLAY	SOFT GREY, RED FINE SANDY PLASTIC CLAY WITH LATERITIC CLAY	1.15-1.45	4-20	D									
2					RED	SANDY CLAY	FIRM RED WHITISH GREY FINE SANDY LATERITIC CLAY WITH LATERITIC NODULES	2.15-2.45	9-30	S									
3	3.00	1.40					MEDIUM DENSE RED YELLOWISH BROWN CLAYEY FINE SAND WITH LATERITIC CLAY	3.15-3.45	26-30	W									
4					RED	CLAYEY SAND		4.15-4.45	28-30	S									
5								5.15-5.45	34-30	W									
6					RED	CLAYEY SAND		6.15-6.45	32-30	S									
7								7.15-7.45	39-30	W									
8					GREY	COMPLETELY WEATHERED ROCK	GREY YELLOWISH BROWN DARK BROWN FINE SAND WITH TRACES OF MICA	8.15-8.45	>50 / 30	W									
9							COMPLETELY WEATHERED ROCK	9.15-9.45	>50 / 30	S									
10							SAME AS NEXT DESCRIPTION			S									



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GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: NS1, BH-84 Sheet No: 2 of 2		COORDINATES: X=111 388.754 Y=193 072.192		GROUND ELEVATION, EL. (m): CHAINAGE : STA 16+360, CL		GROUND WATER LEVEL (m): 0.00						
LOCATION : Bivagama - Kaduwela		DATE : From : 2007/9/1 To: 2007/10/1		LOCATION : Bivagama - Kaduwela		DATE : From : 2007/3/2 To: 04/02/2007		GROUND WATER LEVEL (m): 2.40						
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	STANDARD PENETRATION TEST	METHOD	DEPTH (GWL)	REMARKS
10														
11	11.00	1.50			GREY	HIGHLY WEATHERED ROCK	DARK GREY BLACK FINE SAND WITH SILT AND TRACES OF MICA. HIGHLY WEATHERED ROCK	0%	0%			CS		
12	12.50	1.50			GREY	BIOTITE GNEISS	GREY MEDIUM GRAINED HIGHLY FRACTURED GARNET BIOTITE GNEISS	100%	34%			CS		
13					GREY	BIOTITE GNEISS	GREY MEDIUM GRAINED MODERATELY FRACTURED BIOTITE GNEISS	100%	48%			CS		
14	14.10	1.60					END OF BORING							
15														
16														
17														
18														
19														
20														

GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: NS1, BH-85 Sheet No: 1 of 3		COORDINATES: X=111 382.141 Y=193 017.590		GROUND ELEVATION, EL. (m): CHAINAGE : STA 16+415 CL		GROUND WATER LEVEL (m): 2.40						
LOCATION : Bivagama - Kaduwela		DATE : From : 2007/3/2 To: 04/02/2007		LOCATION : Bivagama - Kaduwela		DATE : From : 2007/3/2 To: 04/02/2007		GROUND WATER LEVEL (m): 2.40						
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	STANDARD PENETRATION TEST	METHOD	DEPTH (GWL)	REMARKS
0														
1					BROWN	SILTY CLAY	FIRM BROWN, LIGHT BROWN SILTY CLAY WITH LOW CONTENT OF ORGANIC MATTER	1.45 - 1.45	8			D		
2	2.70	2.70						2.15 - 2.45	8			S		
3								3.15 - 3.45	7			S		
4								4.15 - 4.45	5			W		
5	5.00	5.00	2.30					5.15 - 5.45	5			S		
6								6.15 - 6.45	2			W		
7								7.15 - 7.45	3			S		
8	8.70	8.70	3.70					8.15 - 8.45	5			W		
9					BROWN	PEAT	VERY SOFT DARK BROWN, BLACK PEAT WITH DECOMPOSED TIMBER PARTICLES	9.15 - 9.45	1			S		
10								9.45 - 1.00				W		

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GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION 1										
LOCATION : Bivagama -Kaduwela					BOREHOLE No: NS1, BH-8S Sheet No: 2 of 3 GROUND ELEVATION, EL (m): CHAINAGE : STA16+415 CL GROUND WATER LEVEL (m): 2.40					
DATE : From : 2007/3/2 To: 04/02/2007					COORDINATES: X=111 382.141 Y=193 017.590					
DEPTH (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	STANDARD PENETRATION TEST		REMARKS
								BLOWS / ft	CURVE OF BLOWS	
10	10.15	10.45	0.30				SAME AS PREVIOUS DESCRIPTION	6		
11	11.15	11.45	0.30				SAME AS PREVIOUS DESCRIPTION	5		
12	12.15	12.45	0.30				VERY STIFF WHITISH GREY, GREY FINE TO MEDIUM SANDY PLASTIC CLAY WITH GRAVEL	17		
13	13.15	13.45	0.30				VERY STIFF WHITISH GREY, GREY FINE TO MEDIUM SANDY PLASTIC CLAY WITH GRAVEL	40		
14	14.15	14.45	0.30				HARD WHITISH GREY, GREY HIGHLY SANDY CLAY WITH COARSE GRAVEL	34		
15	15.15	15.45	0.30				DENSE GREY, LIGHT GREY CLAYEY GRAVELY SAND WITH HIGH CONTENT OF GRAVEL	47		
16	16.15	16.45	0.30				DENSE GREY CLAYEY FINE TO MEDIUM SAND	43		
17	17.15	17.45	0.30				YELLOW WHITISH GREY KEOLINIZED CLAY WITH TRACES OF MICA SHOWS RELICT STRUCTURE COMPLETELY WEATHERED ROCK	42		
18	18.15	18.45	0.30				YELLOW WHITISH GREY KEOLINIZED CLAY WITH TRACES OF MICA SHOWS RELICT STRUCTURE COMPLETELY WEATHERED ROCK	34		
19	19.15	19.45	0.30				YELLOW WHITISH GREY KEOLINIZED CLAY WITH TRACES OF MICA SHOWS RELICT STRUCTURE COMPLETELY WEATHERED ROCK	39		
20	20.15	20.45	0.30				END OF BORING			

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GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION 1										
LOCATION : Bivagama -Kaduwela					BOREHOLE No: NS1, BH-8S Sheet No: 3 of 3 GROUND ELEVATION, EL (m): CHAINAGE : STA16+415 CL GROUND WATER LEVEL (m): 2.40					
DATE : From : 2007/3/2 To: 04/02/2007					COORDINATES: X=111 382.141 Y=193 017.590					
DEPTH (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	STANDARD PENETRATION TEST		REMARKS
								BLOWS / ft	CURVE OF BLOWS	
20	20.15	20.45	0.30				SAME AS PREVIOUS ROCK LEVEL			
21	21.15	21.45	0.30				WASHED SAMPLE: LIGHT GREY FINE SAND WITH TRACES OF MICA	0.00%		
22	22.15	22.45	0.30				WASHED SAMPLE: LIGHT GREY FINE SAND WITH TRACES OF MICA HIGHLY WEATHERED ROCK	0.00%		
23	23.15	23.30	0.15				GREY HIGHLY FRACTURED MODERATELY WEATHERED BIOTITE GNEISS	60%		
24	24.30	24.30	0.00				GREY HIGHLY FRACTURED MEDIUM GRAINED BIOTITE GNEISS	12%		
25	25.30	25.30	0.00				GREY YELLOWISH GREY, MEDIUM GRAINED HIGHLY FRACTURED FAINTLY DISCOLOURED BIOTITE GNEISS	100%####		
26	26.30	26.30	0.00				END OF BORING			
27	27.15	27.45	0.30				END OF BORING			
28	28.15	28.45	0.30				END OF BORING			
29	29.15	29.45	0.30				END OF BORING			
30	30.15	30.45	0.30				END OF BORING			

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GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No.: NS1, BH-86 Sheet No: 1 of 3												
COORDINATES: X=111 375.547 Y=192942.885		GROUND ELEVATION, EL. (m): CHAINAGE : STA 16+490, CL												
LOCATION : Bivagama - Kaduwela		GROUND WATER LEVEL (m): 2.10												
DATE : From : 02/02/2007	To : 03/02/2007													
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	STANDARD PENETRATION TEST	TEST SAMPLE METHOD	DEPTH (GWL)	REMARKS
0														
1								1.15 - 1.45	4/20	4		W		
2					YELLOW	SILTY CLAY	SOFT YELLOW, YELLOWISH BROWN SILTY CLAY WITH MEDIUM SAND	1.45 - 2.15	6/20	6		S		
3								3.15 - 3.45	3/20	3		W		
4		3.90	3.90					4.15 - 4.45	2/20	2		S		
5		5.00	1.10		BLACK	PEAT	VERY SOFT BLACK SLIGHTLY CLAYEY PEAT WITH FINE SAND	5.15 - 5.45	0/20	0		W		
6		5.80	0.80		GREY	ORGANIC CLAY	VERY SOFT GREY SILTY CLAY WITH ORGANIC CLAY	6.15 - 6.45	3/20	3		S		
7		7.00	1.20		BLACK	PEAT	SOFT BLACK PEAT WITH DECOMPOSED TIMBER PARTICLES	7.15 - 7.45	6/20	6		W		
8								8.15 - 8.45	9/20	9		S		
9					GREY	CLAYEY SAND	LOOSE GREY, WHITISH, GREY CLAYEY FINE TO MEDIUM SAND WITH GRAVEL	9.15 - 9.45	9/20	9		W		
10												W		

GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No.: NS1, BH-86 Sheet No: 2 of 3												
COORDINATES: X=111 375.547 Y=192942.885		GROUND ELEVATION, EL. (m): CHAINAGE : STA 16+490, CL												
LOCATION : Bivagama - Kaduwela		GROUND WATER LEVEL (m): 2.10												
DATE : From : 02/02/2007	To : 03/02/2007													
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	STANDARD PENETRATION TEST	TEST SAMPLE METHOD	DEPTH (GWL)	REMARKS
10								10.20	3.20	10		W		
11		11.10	0.90		GREY	CLAYEY SAND	MEDIUM DENSE GREY SLIGHTLY CLAYEY FINE TO MEDIUM SAND	11.15		12		S		
12								11.45	12/20			W		
13								12.15		29		S		
14		14.00	2.90		GREY	SILTY SAND	MEDIUM DENSE GREY, LIGHT BROWN FINE TO MEDIUM SILTY SAND	12.45	29/20			W		
15					YELLOW	COMPLETELY WEATHERED ROCK	YELLOW, YELLOWISH BROWN FINE SAND WITH TRACES OF MICA AND GRAVEL	13.15		15		S		
16		16.00	2.00					13.45	15/20			W		
17					GREY	COMPLETELY WEATHERED ROCK	GREY LIGHT GREY FINE FELDSPAR PARTICLES AND TRACES OF MICA	14.15		32		S		
18								14.45	50/20			W		
19		18.35	2.35		GREY	BIOTITE GNEISS	GREY WHITISH GREY, MEDIUM GRAINED HIGHLY FRACTURED BIOTITE GNEISS	15.15		30		S		
20		19.35	1.00		GREY	BIOTITE GNEISS	GREY WHITISH GREY, MEDIUM GRAINED HIGHLY FRACTURED BIOTITE GNEISS	16.15				W		

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GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: <u>NS1, BH-86</u> Sheet No: <u>3</u> of <u>3</u>		COORDINATES: X=111 375.547 Y=192942.885		GROUND ELEVATION, EL. (m): CHAINAGE : STA 16+490, CL		GROUND WATER LEVEL (m): 2.10		
LOCATION : <u>Biyaamba - Kaduwela</u>		DATE : From : <u>02/02/2007</u> To : <u>03/02/2007</u>		LOCATION : <u>Kadawatha</u>		DATE : From : <u>2007/04/09</u> To : <u>2007/04/10</u>		GROUND WATER LEVEL (m): 0.00		
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	STANDARD PENETRATION TEST		REMARKS
								DEPTH (m)	BLOWS / cm	
20							SAME AS PREVIOUS DESCRIPTION			
21	20.35	1.00			GREY	BIOTITE GNEISS	GREY WHITISH GREY MEDIUM GRAINED HIGHLY FRACTURED BIOTITE GNEISS	100%	0%	
22	21.35	1.00			GREY	BIOTITE GNEISS	GREY WHITISH GREY, MEDIUM GRAINED BIOTITE GNEISS	100%	47%	
23	22.35	1.00					END OF BORING	C	r	
24										
25										
26										
27										
28										
29										
30										

GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: <u>NS1, BH-87</u> Sheet No: <u>1</u> of <u>2</u>		COORDINATES: X=110 178.752 Y=200 289.280		GROUND ELEVATION, EL. (m): CHAINAGE : STA 8+647 R		GROUND WATER LEVEL (m): 0.00		
LOCATION : <u>Kadawatha</u>		DATE : From : <u>2007/04/09</u> To : <u>2007/04/10</u>		LOCATION : <u>Kadawatha</u>		DATE : From : <u>2007/04/09</u> To : <u>2007/04/10</u>		GROUND WATER LEVEL (m): 0.00		
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	STANDARD PENETRATION TEST		REMARKS
								DEPTH (m)	BLOWS / cm	
1	0.65	0.65			BROWN	SANDY CLAY	BROWN, GRAYISH BROWN, SLIGHTLY SILTY FINE TO MEDIUM SANDY CLAY WITH PLANT FRAGMENTS (TOP SOIL TAKEN FROM PADDY LANDS)	11		
2	2.25	1.6			LIGHT GREY	SULTY SAND	MEDIUM DENSE LIGHT GRAY, WHITISH GRAY SLIGHTLY SILTY MEDIUM TO COARSE, ANGULAR TO SUB ANGULAR SAND	11		
3								7		
4								13		
5								14		
6								42		
7								42		
8	8.00	5.75						56		
9								56		
10								56		

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GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: NSI, BH-87 Sheet No: 2 of 2 GROUND ELEVATION, EL. (m): 7.783 CHAINAGE : STA 8+647 R			
LOCATION : Kadawatha		GROUND WATER LEVEL (m) : 0.00m			
DATE	From : 2007/04/05	To : 2007/04/06	TEST SAMPLE		
SCALE (m)	ELEVATION (m)	DEPTH (m)	DEPTH (GWL)		
LEGEND	THICKNESS (m)	COLOUR	SOIL NAME		
DEPTH (m)	DESCRIPTION	STANDARD PENETRATION TEST	TEST SAMPLE		
DEPTH (m)	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS		
DEPTH (m)	DEPTH (m)	DEPTH (m)	METHOD		
DEPTH (m)	DEPTH (m)	DEPTH (m)	REMARKS		
10	10.15	10.15	50	S	
11	10.45	10.45	50	W	
12	11.00	11.00		CS	
13	11.45	11.45		W	
14	12.05	12.05		W	
15	15.15	15.15		W	
16					
17					
18					
19					
20					

GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: NSI, BH-88 Sheet No: 1 of 1 GROUND ELEVATION, EL. (m): 7.879 CHAINAGE : STA 8+850 C			
LOCATION : Kadawatha		GROUND WATER LEVEL (m) : 0.00			
DATE	From : 2007/04/07	To : 2007/04/08	TEST SAMPLE		
SCALE (m)	ELEVATION (m)	DEPTH (m)	DEPTH (GWL)		
LEGEND	THICKNESS (m)	COLOUR	SOIL NAME		
DEPTH (m)	DESCRIPTION	STANDARD PENETRATION TEST	TEST SAMPLE		
DEPTH (m)	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS		
DEPTH (m)	DEPTH (m)	DEPTH (m)	METHOD		
DEPTH (m)	DEPTH (m)	DEPTH (m)	REMARKS		
0					
1	1.05	1.05	3	D	
2	1.05	1.05	5	S	
3	3.35	3.35		W	
4	3.80	3.80		S	
5				W	
6	5.30	5.30		S	
7	5.80	5.80		W	
8					
9					
10					




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GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: NS1, BH-89 Sheet No: 1 of 1 GROUND ELEVATION, EL (m): 7.661 CHAINAGE : STA 8+786, R-32 COORDINATES: X=110 190.017 Y=200 149.748		BORING LOG		BOREHOLE No: NS1, BH-91 Sheet No: 1 of 2 GROUND ELEVATION, EL (m): 23.349 CHAINAGE : STA 10+192 R COORDINATES: X=110 507.894 Y=198 884.834							
LOCATION : Bivagama-Kaduvela		LOCATION : Kadavatha		LOCATION : Kadavatha		LOCATION : Kadavatha							
DATE	E. From	To	DATE	E. From	To	DATE	E. From						
30/12/2006	29/12/2006		2007/04/08	2007/04/08		2007/04/09	2007/04/09						
GROUND WATER LEVEL (m) : 0.60m		GROUND WATER LEVEL (m) :		GROUND WATER LEVEL (m) :		GROUND WATER LEVEL (m) : 10.50							
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	METHOD	DEPTH (GWL)	REMARKS
1	1.40	1.40	0.25		BROWN	CLAYEY SILT	BROWN, BROWNISH GRAY CLAYEY SILT WITH PLANT FRAGMENTS	1.15-1.45			D		
2	1.65	1.65			GREY	SILTY CLAY	VERY SOFT GREY, YELLOWISH GREY SILTY CLAY	2.15-2.45			S		
3	3.02	3.15	0.13		GREY	SILTY SAND	MEDIUM DENSE GREY, YELLOWISH GREY SILTY FINE TO MEDIUM ANGULAR TO SUBANGULAR SAND	3.15-3.45			S		
4	3.15	3.15			BLACK	COMPLETELY WEATHERED ROCK	WASHED SAMPLE: BLACK, YELLOWISH BROWN CLAYEY FINE SAND WITH TRACES OF MICA, COMPLETELY WEATHERED ROCK	4.15-4.45			W		
5							END OF BORING				W		

GEOTECHNICAL SURVEY FOR DETAILED DESIGN STUDY FOR OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO NORTHERN SECTION I		BOREHOLE No: NS1, BH-91 Sheet No: 1 of 2 GROUND ELEVATION, EL (m): 23.349 CHAINAGE : STA 10+192 R COORDINATES: X=110 507.894 Y=198 884.834		BORING LOG		BOREHOLE No: NS1, BH-91 Sheet No: 1 of 2 GROUND ELEVATION, EL (m): 23.349 CHAINAGE : STA 10+192 R COORDINATES: X=110 507.894 Y=198 884.834							
LOCATION : Bivagama-Kaduvela		LOCATION : Kadavatha		LOCATION : Kadavatha		LOCATION : Kadavatha							
DATE	E. From	To	DATE	E. From	To	DATE	E. From						
30/12/2006	29/12/2006		2007/04/08	2007/04/08		2007/04/09	2007/04/09						
GROUND WATER LEVEL (m) : 0.60m		GROUND WATER LEVEL (m) :		GROUND WATER LEVEL (m) :		GROUND WATER LEVEL (m) : 10.50							
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	DEPTH (m)	BLOWS / cm	CURVE OF BLOWS	METHOD	DEPTH (GWL)	REMARKS
1	1.40	1.40	0.25		RED	SANDY CLAY	STIFF RED-REDDISH BROWN SANDY LATERITIC CLAY WITH LATERITE NODULES	1.15-1.45			D		
2	1.65	1.65						2.15-2.45			S		
3	3.02	3.15	0.13		RED	SANDY CLAY	VERY STIFF RED-REDDISH BROWN SANDY LATERITIC CLAY WITH LATERITE NODULES	3.15-3.45			S		
4	3.15	3.15						4.15-4.45			W		
5								4.45-4.45			S		
6	5.90	5.90	1.90		RED	SANDY CLAY	HARD VERY STIFF RED-REDDISH BROWN SANDY LATERITIC CLAY WITH LATERITIC NODULE	5.15-5.45			S		
7								6.15-6.45			W		
8	7.40	7.40	1.50		RED	SANDY CLAY	VERY STIFF RED-REDDISH BROWN SANDY LATERITIC CLAY WITH LATERITIC NODULE	7.15-7.45			S		
9								8.15-8.45			W		
10					PINK	COMPLETELY WEATHERED ROCK	PINK FINE SANDY CLAY WITH TRACES OF MICA SHOWS RELICT STRUCTURES COMPLETELY WEATHERED ROCK	8.45-9.45			S		



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GEOTECHNICAL SURVEY FOR
DETAILED DESIGN STUDY FOR
OUTER CIRCULAR HIGHWAY TO
THE CITY OF COLOMBO
NORTHERN SECTION I

BORING LOG

BOREHOLE
No: NSL_BH-91
Sheet No: 2 of 2

COORDINATES:
X=110 507.894
Y=198 884.834

GROUND ELEVATION, EL (m): 23.349
CHAINAGE : STA 10+192 R

GROUND WATER LEVEL (m): 2.70

LOCATION : Kadawatha

DATE : From : 2007/04/07 To: 2007/04/07

DEPTH (m)	ELEVATION (m)	THICKNESS (m)	LEGEND	COLOUR	SOIL NAME	DESCRIPTION	STANDARD PENETRATION TEST		TEST SAMPLE		REMARKS
							DEPTH (m)	BLOWS / cm	METHOD	DEPTH (GWD)	
10						SAME AS PREVIOUS DESCRIPTIONS ROCK LEVEL	10.15	15/20			
11		3.23	~~~~~	GRAY	BIOTITE GNEISS	GRAY SLIGHTLY FRACTURED FUGILY DISCOLOURED SLIGHTLY WEATHERED THIN SLIPPERY SHEAR ZONE BIOTITE GNEISS	87%	70%	C		
12		1.06	~~~~~	GRAY	BIOTITE GNEISS	BIOTITE GNEISS	91%	91%	C		
13		1.06				END OF BORING	C	R			
14											
15											
16											
17											
18											
19											
20											



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