

# DRILL LOG

SHEET NO. 2 OF 2

SITE		TRO DAMSITE		HOLE No. JD-7		ELEVATION		DEPTH				
LATITUDE		997366.98		LONGITUDE		995132.13		124.42m				
DATE								50.00m				
SCALE	DEPTH	ELEVATION	GEOLOGICAL AGE	ROCK TYPE	DIRECTION	ROCK CLASS	DESCRIPTION	DATE	WATER LEVEL	CORE RECOVERY % (m)	R.O.D % (m)	WATER PRESSURE TEST
	31	31.00	OLD LAVA 2 (OL2)	Glassy Basalt	CH	CH	Vesicular, slightly weathered.			100	100	
	32	31.80										
	33	33.00										
	34	34.00										
	35	35.00										
	36	36.00										
	37	37.00										
	38	38.00										
	39	39.00										
	40	40.00										
	41	41.00	OLD LAVA 1 (OL1)	Weathered Glassy Basalt	CH	CH	Vesicular at the top and bottom zones, moderately weathered and moderately hard but friable, bearing a one cm wide white clay seam.		100	100		
	42	42.00										
	43	43.00										
	44	44.00										
	45	45.00										
	46	46.00										
	47	47.00										
	48	48.00										
	49	49.00										
	50	50.00										
	51											
	52											
	53											
	54											
	55											
	56											
	57											
	58											
	59											
	60											

R.O.D is Rock Quality Designation. R.O.D = (total length of cylindrical cores longer than 10 cm) / (total drill length) x 100%  
 X LOGGED VALUE is 1/min/m under injection water pressure of 10kg/cm2  
 X DEPTH and ELEVATION are in meter  
 X DIAMETER is in millimeter

NIPPON KOEI CO., LTD.,  
 CONSULTING ENGINEERS, TOKYO

# DRILL LOG

SHEET NO. 1 OF 3

Fig. B-47

SITE		TRO DAMSITE		HOLE No. JD-8		ELEVATION		DEPTH	
LATITUDE		LONGITUDE		995146.94		140.57m		70.00m	
DATE		997405.56		DATE		HORIZON $\alpha$		CORE RECOVERY	
ANGLE		DIRECTION		SLOPE		BIT & DIAMETER		WATER PRESSURE TEST	
SCALE		ROCK TYPE		DESCRIPTION		DATE		A.G.D. (m)	
DEPTH		GEOLOGICAL AGE		ROCK CLASS		WATER LEVEL		%	
ELEVATION		ALLUVIAL		CH		15.65		0 50 100 0 50 100	
1	1.00	139.57							
2	2.00	139.57							
3	3.00	137.57							
4	4.00	139.57							
5	5.00	135.57							
6	6.00	134.57							
7	7.00	133.57							
8	8.00	132.57							
9	9.00	131.57							
10	10.00	130.57							
11	11.00	129.57							
12	12.00	128.57							
13	13.00	127.57							
14	14.00	126.57							
15	15.00	125.57							
16	16.00	124.57							
17	17.00	123.57							
18	18.00	122.57							
19	19.00	121.57							
20	20.00	120.57							
21	21.00	119.57							
22	22.00	118.57							
23	23.00	117.57							
24	24.00	116.57							
25	25.00	115.57							
26	26.00	114.57							
27	27.00	113.57							
28	28.00	112.57							
29	29.00	111.57							
30	30.00	110.57							

## DRILLING LOG OF JD-8 (1/3)

GOVERNMENT OF MAURITIUS  
PORT LOUIS WATER SUPPLY PROJECT  
JAPAN INTERNATIONAL COOPERATION AGENCY

NIPPON KOEI CO., LTD.,  
CONSULTING ENGINEERS, TOKYO

\*R.O.D is Rock Quality Designation. R.O.D = (Total length of cylindrical cores longer than 10 cm) / (Total drill length) x 100%  
\*LOGEON VALUE is l/min/m under injection water pressure of 10kg/cm<sup>2</sup>  
\*DEPTH and ELEVATION are in meter  
\*DIAMETER is in millimeter

# DRILL LOG

SHEET NO.2 OF 3

Fig. B-48

SITE		TRO DAMSITE		HOLE No.		JD-8							
LATITUDE		997405.56		LONGITUDE		995146.94							
DATE				ELEVATION		140.57m							
ANGLE		95°		DEPTH		70.00m							
SCALE	DEPTH	ELEVATION	GEOL. AGE	ROCK TYPE	DIRECTION	SLOPE	HORIZON	DATE	BIT & DIAMETER	WATER LEVEL	CORE RECOVERY	R.O.D. % (m)	WATER PRESSURE TEST
	31	103.57	OLD LAVA 3 (OL3)	Columnar Basalt	CH	Black, fresh and dense, hard basalt.	95°				100.00	45.00	
	32	103.57			B	Alternating non-vesicular basalt and vesicular basalt, doleritic, dark gray. Cracks.					100.00	50.00	
	33	107.57				Non vesicular in 35.5-37.3m, 38.3-38.9m, 41.0-42.1m, 46.0-46.5m and 48.4-49.0m.					100.00	48.00	
	34	105.57									100.00	45.00	
	35	105.57									100.00	45.00	
	36	104.57									100.00	45.00	
	37	103.57									100.00	45.00	
	38	102.57									100.00	45.00	
	39	101.57									100.00	45.00	
	40	100.57	OLD LAVA 2 (OL2)	Glassy Basalt	CH-8						100.00	45.00	
	41	99.57									100.00	45.00	
	42	99.57									100.00	45.00	
	43	97.57									100.00	45.00	
	44	95.57									100.00	45.00	
	45	95.57									100.00	45.00	
	46	94.57									100.00	45.00	
	47	93.57									100.00	45.00	
	48	92.57									100.00	45.00	
	49	91.57									100.00	45.00	
	50	90.57									100.00	45.00	
	51	89.57									100.00	45.00	
	52	88.57									100.00	45.00	
	53	87.57									100.00	45.00	
	54	85.57	OLD LAVA 1 (OL1)	Hard Clay	D	Reddish brown, shaly with horizontal foliation.					100.00	45.00	
	55	85.57				Yellow decomposed basalt and white gray discoloured soft basalt. Rock gets harder downward but remains friable. Joints are stained, soft and clayey.					100.00	45.00	
	56	84.57									100.00	45.00	
	57	83.57									100.00	45.00	
	58	82.57									100.00	45.00	
	59	81.57									100.00	45.00	
	60	80.57									100.00	45.00	

\*R.O.D is Rock Quality Designation, R.O.D=(Total length of cylindrical cores longer than 10 cm)/(Total drill length) x 100%  
 \*LUGEON VALUE is 1/min/m under injection water pressure of 10kg/cm<sup>2</sup>  
 \*DEPTH and ELEVATION are in meter  
 \*DIAMETER is in millimeter

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## DRILLING LOG OF JD-8 (2/3)

GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY

# DRILL LOG

SHEET NO.3 OF 3

Fig. B-49

SITE		TRO DAMSITE		HOLE No.		JD-8	
LATITUDE		997405.56		LONGITUDE		995146.94	
DATE				ELEVATION		140.57m	
ANGLE		DIRECTION		SLOPE		DEPTH	
SCALE		ROCK TYPE		DESCRIPTION		CORE RECOVERY	
DEPTH		ROCK CLASS		WATER LEVEL		R.O.D. (m)	
ELEVATION		COLUMN SECTION		BIT & DIAMETER		WATER PRESSURE TEST	
GEOLOGICAL AGE		ROCK TYPE		DATE		CORE RECOVERY	
ELEVATION		ROCK TYPE		DATE		CORE RECOVERY	
ELEVATION		ROCK TYPE		DATE		CORE RECOVERY	
61	61.00	79.57					
62	62.00	79.57					
63	63.00	77.57					
64	64.00	76.57					
65	65.00	75.57					
66	66.00	74.57					
67	67.00	73.57					
68	68.00	72.57					
69	69.00	71.57					
70	70.00	70.57					
71							
72							
73							
74							
75							
76							
77							
78							
79							
80							
81							
82							
83							
84							
85							
86							
87							
88							
89							
90							

Vesicular and non-vesicular parts are mixed. Gray to black, hard. 64.1m to 64.4m Cracky. Joints are only slightly stained.

Weathered Glassy Basalt

OLD LAVA 1 (OL1)

CM

Depth : 60.00  
Length : 16.00  
Lithology : 16.00  
R.O.D. : 0.0000582

Depth : 65.00  
Length : 16.00  
Lithology : 16.00  
R.O.D. : 0.0000585

## DRILLING LOG OF JD-8 (3/3)

GOVERNMENT OF MAURITIUS  
PORT LOUIS WATER SUPPLY PROJECT  
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R.O.D. is Rock Quality Designation, R.O.D.=(total length of cylindrical cores longer than 10 cm)/(total drill length) x 100%  
KLUGEON VALUE is l/min/m under injection water pressure of 10kg/cm<sup>2</sup>  
DEPTH and ELEVATION are in meter  
DIAMETER is in millimeter

NIPPON KOEI CO., LTD.,  
CONSULTING ENGINEERS, TOKYO

DRILL LOG

SHEET NO. 1 OF 5

SITE		TRO DAMSITE		HOLE No.		JD-9							
LATITUDE		997144.81		LONGITUDE		994982.25							
DATE				ELEVATION		247.50m							
ANGLE		100° UP DOWN		DEPTH		143.00m							
SCALE	DEPTH	ELEVATION	GEOLOGICAL AGE	ROCK TYPE	DIRECTION	SLOPE	DATE	BIT & DIAMETER	WATER LEVEL	CORE RECOVERY % (m)	R.O.D. % (m)	WATER PRESSURE TEST	
													ROCK CLASS
	1	245.50	ALLUVIAL	Top Soil									
	2	245.50		Residual Soil									
	3	244.50		Heathered Basalt	D								
	4	243.50											
	5	243.50											
	6	241.50	YOUNG LAVA 4 (PL4)	Heathered Basalt	D								
	7	240.50											
	8	239.50											
	9	238.50											
	10	237.50											
	11	235.50											
	12	235.50											
	13	234.50											
	14	233.50											
	15	232.50											
	16	231.50	Basalt	CH									
	17	229.50											
	18	229.50											
	19	228.50	Basalt	CH									
	20	227.50											
	21	225.50	Basalt	CH									
	22	225.50											
	23	224.50											
	24	223.50	Basalt	CH									
	25	222.50											
	26	221.50	Basalt	CH									
	27	220.50											
	28	219.50											
	29	218.50	Basalt	CH									
	30	217.50											

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 KLOGSON VALUE is 1/min/m under injection water pressure of 10kg/cm<sup>2</sup>  
 DEPTH and ELEVATION are in meter  
 DIAMETER is in millimeter

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DRILLING LOG OF JD-9 (1/5)

GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY

# DRILL LOG

SHEET NO. 2 OF 5

SITE		TRO DAMSITE		HOLE No.		JD-9	
LATITUDE		994982.25		ELEVATION		247.50m	
DATE		997144.81		LONGITUDE		143.00m	
ANGLE	1/4 UP DOWN	DIRECTION	SLOPE	HORIZON	BIT & DIAMETER	CORE RECOVERY	
						% (m)	R.O.D. % (m)
DEPTH	ELEVATION	ROCK TYPE	DESCRIPTION	DATE	WATER LEVEL	WATER PRESSURE TEST	
SCALE	GEOLOGICAL AGE	ROCK CLASS	COLLUM SECTION			0	50
31	216.50	Weathered Basalt	CM	CM		0	50
32	215.50					50	100
33	214.50					100	150
34	213.50	Lapilli	CL	CL		150	200
35	212.50					200	250
36	211.50	Flow Breccia	CL	CL		250	300
37	210.70					300	350
38	209.70					350	400
39	208.50	Basalt	CH	CH		400	450
40	207.50					450	500
41	205.50					500	550
42	205.50	Flow Breccia	CH	CH		550	600
43	204.75					600	650
44	203.50	Hard Clay	CL-D	CL-D		650	700
45	202.50	Basalt	CH	CH		700	750
46	199.50	Weathered Basalt	CL	CL		750	800
47	198.50					800	850
48	198.50					850	900
49	197.50					900	950
50	197.50					950	1000
51	195.50					1000	1050
52	195.50					1050	1100
53	194.50					1100	1150
54	193.50					1150	1200
55	192.50					1200	1250
56	191.50					1250	1300
57	190.50					1300	1350
58	189.50					1350	1400
59	188.10					1400	1450
60	187.50					1450	1500

R.O.D. is Rock Quality Designation, R.O.D. (Total length of cylindrical cores longer than 10 cm / Total drill length) x 100%  
 KLUGEON VALUE is 1/min/m under injection water pressure of 10kg/cm2  
 XDEPTH and ELEVATION are in meter  
 DIAMETER is in millimeter

## DRILLING LOG OF JD-9 (2/5)

GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY

**NIPPON KOEI CO., LTD.**  
 CONSULTING ENGINEERS, TOKYO

Upper Depth: 54.80  
 Lower Depth: 50.80  
 Logon Value: 55.80  
 X-Value: 5.000475

SITE TRO DAMSITE			HOLE NO. JD-9			ELEVATION 247.50m		DEPTH 143.00m			
LATITUDE 997144.84			LONGITUDE 994982.25								
DATE			DATE								
ANGLE	DIRECTION		SLOPE		HORIZON & BIT & DIAMETER						
180° DOWN											
DEPTH	ELEVATION	GEOLOGICAL AGE	ROCK TYPE	COLUMN SECTION	ROCK CLASS	DESCRIPTION	DATE	WATER LEVEL	CORE RECOVERY % (m)	A.O.D. % (m)	WATER PRESSURE TEST
61	61.00	YOUNG LAVA 3 (L3)	Basalt		CH-CH	Slightly weathered, and cracks are filled with white clayey material.			5	5	
62	61.80								5	5	
63	62.00								5	5	
64	62.50								5	5	
65	63.00								5	5	
66	63.50		Hard Clay		D	Reddish grey hard clay. Cobble-size rubbles of basaltic rock are included.			5	5	
67	64.00					Intensely to moderately weathered basalt. Less vesicular below 66.4m.			5	5	
68	64.50								5	5	
69	65.00								5	5	
70	65.50								5	5	
71	66.00								5	5	
72	66.50								5	5	
73	67.00								5	5	
74	67.50								5	5	
75	68.00								5	5	
76	68.50								5	5	
77	69.00	YOUNG LAVA 2 (L2)	Basalt		CH	Fresh and compact doleritic basalt. Cracks are coated with white clayey film. Some siliceous vesicles are included below 68.5m.			5	5	
78	69.50								5	5	
79	70.00								5	5	
80	70.50								5	5	
81	71.00								5	5	
82	71.50								5	5	
83	72.00								5	5	
84	72.50								5	5	
85	73.00								5	5	
86	73.50								5	5	
87	74.00								5	5	
88	74.50								5	5	
89	75.00								5	5	
90	75.50								5	5	

DRILLING LOG OF JD-9 (3/5)

GOVERNMENT OF MAURITIUS  
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 KLUGEON VALUE is 1/min/m under injection water pressure of 10kg/cm2  
 \*DEPTH and ELEVATION are in meter  
 †DIAMETER is in millimeter  
 NIPPON KOEI CO., LTD., CONSULTING ENGINEERS, TOKYO

# DRILL LOG

SHEET NO. 4 OF 5

SITE		TRO DAMSITE		HOLE No. JD-9		ELEVATION		DEPTH	
LATITUDE		LONGITUDE		994982.25		247.50m		143.00m	
DATE		997144.81		HORIZON $\sigma$		WATER LEVEL		CORE RECOVERY	
ANGLE		DIRECTION		SLOPE		BIT & DIAMETER		R.O.D. % (m)	
SCALE		ROCK TYPE		DESCRIPTION		DATE		WATER PRESSURE TEST	
DEPTH		ROCK CLASS		COLUMN SECTION		WATER LEVEL		CORE RECOVERY	
ELEVATION		GEOLOGICAL AGE		ROCK TYPE		DATE		WATER PRESSURE TEST	
91	91.00	155.50	Basalt	CH	Basalt				
	91.30	155.20		CM					
92	91.65	155.65	Flow Breccia	DL	Reddish grey and dark grey rubbles of basaltic rocks are included in cream colored tuffaceous material.	27/6 92.52			
	92.32	154.98							
93	93.00	154.50				28/1 94.11			
94	94.00	153.50							
	94.58	152.60							
95	95.00	151.50							
97	97.00	150.50	Basalt	CH	Fresh doleritic basalt. Rich in olivine phenocrysts.				
98	98.00	149.50							
99	99.00	148.50							
	99.45	148.05							
100	100.00	147.50	Flow Breccia	DL	Fragments of basaltic rocks are filled with yellowish brown tuffaceous material.	18/1 100.70			
101	101.00	146.50							
102	102.00	145.50	Basalt	CM	Fresh vesicular basalt. Cracks are filled with tuffaceous material.				
	102.50	145.00							
103	103.00	144.50	Hard Clay	CL-O	Bedders of basalt are included in reddish brown earthy material.				
104	104.00	143.50							
	104.69	142.90							
105	105.00	142.50							
106	106.00	141.50							
107	107.00	140.50							
108	108.00	139.50							
109	109.00	138.50							
	109.23	138.23							
110	110.00	137.50							
111	111.00	136.50							
112	112.00	135.50							
113	113.00	134.50							
114	114.00	133.50							
115	115.00	132.50							
116	116.00	131.50							
117	117.00	130.50							
118	118.00	129.50							
	118.70	129.00							
	119.00	128.50							
119	119.00	128.50							
	119.70	127.80							
	120.00	127.50							

R.O.D. is Rock Quality Designation. R.O.D. = (Total length of cylindrical cores longer than 10 cm) / (Total drill length) x 100%  
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 X DEPTH and ELEVATION are in meter  
 X DIAMETER is in millimeter

NIPPON KOEI CO., LTD.,  
 CONSULTING ENGINEERS, TOKYO

DRILLING LOG OF JD-9 (4/5)

GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY



DRILL LOG SHEET NO. 5 OF 5

SITE		TRO DAMSITE		HOLE No. JD-9		ELEVATION		DEPTH	
LATITUDE		997144.81		994992.25		247.50m		143.00m	
DATE		LONGITUDE		DATE		CORE RECOVERY %		R.O.D. X (m)	
ANGLE		DIRECTION		SLOPE		MATER LEVEL		MATER PRESSURE TEST	
DEPTH		ROCK TYPE		DESCRIPTION		BIT & DIAMETER			
SCALE		GEOLOGICAL AGE		ROCK CLASS		HORIZON °			
		ELEVATION		COLUMN SECTION		90°			
121	121.00	125.50	Basalt	CH	Fresh and compact, doleritic basalt.				
122	122.00	125.50	Basalt	CH	Partially weathered, vesicular basalt. Below 124.5m, brecciated and rubbles are filled with cream colored tuffaceous material.				
123	123.00	124.50	Basalt	CH	Fresh doleritic basalt. Compact and hard. Some large-size vesicles are included.				
124	124.00	123.50	Basalt	CH	Reddish brown to dark brownish grey slightly consolidated clay. Boulder-size basaltic rock is at the depth of 130m.				
125	125.00	122.50	Basalt	CH	Core loss.				
126	126.00	122.00	Basalt	CH	Light greenish grey soft tuffaceous rock from 133.6 to 133.95m.				
127	127.00	121.50	Basalt	CH	Basalt boulder from 134.8 to 135.5m.				
128	128.00	119.50	Basalt	CH	Brownish grey earthy material.				
129	129.00	119.00	Basalt	CH	Core loss.				
130	130.00	118.50	Basalt	CH	Intensely weathered basalt. Cores are very fragile. Fragments of weakly weathered basaltic rocks are included.				
131	131.00	118.00	Basalt	CH					
132	132.00	117.50	Basalt	CH					
133	133.00	117.00	Basalt	CH					
134	134.00	116.50	Basalt	CH					
135	135.00	116.00	Basalt	CH					
136	136.00	115.50	Basalt	CH					
137	137.00	115.00	Basalt	CH					
138	138.00	114.50	Basalt	CH					
139	139.00	114.00	Basalt	CH					
140	140.00	113.50	Basalt	CH					
141	141.00	113.00	Basalt	CH					
142	142.00	112.50	Basalt	CH					
143	143.00	112.00	Basalt	CH					
144	144.00	111.50	Basalt	CH					
145	145.00	111.00	Basalt	CH					
146	146.00	110.50	Basalt	CH					
147	147.00	110.00	Basalt	CH					
148	148.00	109.50	Basalt	CH					
149	149.00	109.00	Basalt	CH					
150	150.00	108.50	Basalt	CH					

DRILLING LOG OF JD-9 (5/5)

GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
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 \*LOGEON VALUE is l/min/m under injection water pressure of 10kg/cm<sup>2</sup>  
 \*DEPTH and ELEVATION are in meter  
 \*DIAMETER is in millimeter

DRILL LOG

SHEET NO. 1 OF 4

SITE		TRO DAMSITE		HOLE No. JD-10								
LATITUDE		996771.00		ELEVATION 252.83m								
DATE		994889.31		DEPTH 120.00m								
ANGLE	180° UP 000° N	DIRECTION	SLOPE		HORIZON & DIRECTION							
			270° W	90° E								
SCALE	DEPTH	ELEVATION	GEOLOGICAL AGE	ROCK TYPE	COLUMN SECTION	ROCK CLASS	DESCRIPTION	DATE	WATER LEVEL	CORE RECOVERY % (m)	R.O.D. % (m)	WATER PRESSURE TEST
1	1.00	251.83	ALLUVIAL	Residual Soil		D	Dark brown soil. Boulders of dark grey, less vesicular basalt.			100.00	6.00	
2	2.00	249.83								100.00	2.00	
3	3.00	249.83								100.00	3.00	
4	4.00	248.83								100.00	4.00	
5	5.00	247.83				D	Brownish grey to dark brownish grey, residual soil. Decolorized, weathered rock fragments are included.			100.00	5.00	
6	6.00	245.83								100.00	6.00	
7	7.00	245.83				CM	Dark grey compact doleritic basalt. Some spherulitic vesicles are included.			100.00	7.00	
8	7.70	245.13								100.00	8.00	
9	9.00	244.83				CL-0	Reddish brown to light brownish grey, weathered basalt.			100.00	9.00	
10	10.00	242.83								100.00	10.00	
11	11.00	241.03								100.00	11.00	
12	12.00	240.83								100.00	12.00	
13	13.00	239.83				CM	Dark grey, vesicular basalt. Weathered along a crack at 11.5m.			100.00	13.00	
14	14.00	239.83								100.00	14.00	
15	15.00	237.83								100.00	15.00	
16	16.00	235.83								100.00	16.00	
17	17.00	235.83								100.00	17.00	
18	18.00	234.83								100.00	18.00	
19	19.00	233.83				CL	Weathered to reddish brown.			100.00	19.00	
20	20.00	232.83								100.00	20.00	
21	21.00	231.03				CH-CH	Weakly weathered, less vesicular doleritic basalt. Partially weathered.			100.00	21.00	
22	22.00	229.83				CL-0	Weathered. Fragments of basalt are filled with earthy material.			100.00	22.00	
23	23.00	228.83								100.00	23.00	
24	24.00	228.83				CM	Dark grey, less vesicular doleritic basalt. Partially irregular shaped vesicles are included.			100.00	24.00	
25	25.00	227.83								100.00	25.00	
26	26.00	226.83								100.00	26.00	
27	27.00	225.83								100.00	27.00	
28	28.00	224.83								100.00	28.00	
29	29.00	223.83								100.00	29.00	
30	30.00	222.83								100.00	30.00	

YOUNG LAVA 4 (YL4)

R.O.D. is Rock Quality Designation. R.G.D. (Total length of cylindrical cores longer than 10 cm) / (Total drill length) x 100%  
 RUSCON VALUE is 1/min/m under injection water pressure of 10kg/cm<sup>2</sup>  
 CORE RECOVERY and ELEVATION are in meter  
 DIAMETER is in millimeter

NIPPON KOEI CO., LTD.,  
 CONSULTING ENGINEERS, TOKYO

DRILLING LOG OF JD-10 (1/4)

GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY

# DRILL LOG

SHEET NO. 2 OF 4

SITE		TRO DAMSITE		HOLE No. JD-10	
LATITUDE		996771.00		ELEVATION 292.83m	
DATE		994889.31		DEPTH 120.00m	
ANGLE	ELEVATION	DIRECTION	SLOPE	HORIZON	BIT & DIAMETER
DEPTH	SCALE	ROCK TYPE	ROCK CLASS	DESCRIPTION	DATE
DEPTH	SCALE	ROCK TYPE	ROCK CLASS	DESCRIPTION	DATE
31	31.00	221.83	CH	Reddish grey, consolidated flow breccia. Comparatively hard.	
32	32.00	220.83	CH	Compact hard, less vesicular doleritic basalt. Weakly weathered to fresh.	
33	33.00	219.83	CH	YOUNG LAVA 4 (YL4)	
34	34.00	218.83	CH		
35	35.00	217.83	CH		
36	36.00	216.83	CH		
37	37.00	215.00	CH		
38	38.00	214.83	CH		
39	39.00	213.83	CH		
40	39.95	212.83	CH		
41	41.00	211.00	DL	Flow Breccia	
42	42.00	210.83	0	Hard Clay	
43	43.00	210.00	CH	Weakly weathered, less vesicular doleritic basalt.	
44	44.00	209.83	D	Intensely weathered, vesicular basalt.	
45	44.45	209.35	DL	Moderately to intensely weathered vesicular basalt.	
46	45.00	207.00	CH	YOUNG LAVA 3 (YL3)	
47	47.00	205.00	CH		
48	48.00	204.83	CH		
49	49.00	203.00	CH		
50	50.00	202.00	CH		
51	51.00	201.83	CH		
52	52.00	200.83	CH-CL		
53	53.00	199.83	D		
54	54.00	199.00	CH		
55	55.00	197.83	D		
56	56.00	196.83	CH		
57	57.00	195.83	CH		
58	58.00	194.83	CH		
59	59.00	193.83	CH		
60	60.00	192.83	CH		

R.O.D. is Rock Quality Designation. R.O.D. (Total length of cylindrical cores longer than 10 cm / Total drill length) x 100%  
 MUSEON VALUE is 1/min/m under injection water pressure of 10kg/cm<sup>2</sup>  
 DEPTH and ELEVATION are in meter  
 DIAMETER is in millimeter

NIPPON KOEI CO., LTD.  
 CONSULTING ENGINEERS, TOKYO

# DRILL LOG

SHEET NO. 3 OF 4

Fig. B-57

SITE		TRO DAMSITE		HOLE No.		JD-10						
LATITUDE		996771.00		ELEVATION		252.83m						
DATE		994889.31		DEPTH		120.00m						
SCALE	DEPTH	ELEVATION	CEOLOGICAL AGE	ROCK TYPE	DIRECTION	SLOPE	HORIZON & BIT & DIAMETER	WATER LEVEL	RECOVERY % (m)	R.O.D. % (m)	WATER PRESSURE TEST	
												ROCK CLASS
	61	191.83	YOUNG LAVA 3 (YL3)	Basalt	CH							
	62	190.93										
	63	189.82										
	64	189.82										
	65	187.83										
	66	185.83	YOUNG LAVA 2 (YL2)	Hard Clay	CL-0							
	67	185.83										
	68	184.83		Basalt	CH							
	69	183.83										
	70	182.43		Weathered Basalt	CL							
	71	181.83										
	72	180.83		Basalt	CH							
	73	179.83										
	74	178.83		Flow-breccia-like texture is observable.	CH-CL							
	75	177.43										
	76	175.83	Moderately weathered, reddish brown vesicular basalt.	CL								
	77	175.03										
	78	173.23	Fresh, less vesicular doleritic basalt. Up to 85.5m. weakly weathered and some irregular large vesicles are included.	CH								
	79	172.63										
	80	172.63	Fresh, less vesicular doleritic basalt. Up to 85.5m. weakly weathered and some irregular large vesicles are included.	CH								
	81	171.83										
	82	170.83	Fresh, less vesicular doleritic basalt. Up to 85.5m. weakly weathered and some irregular large vesicles are included.	CL								
	83	169.83										
	84	168.83	Fresh, less vesicular doleritic basalt. Up to 85.5m. weakly weathered and some irregular large vesicles are included.	CH								
	85	167.83										
	86	165.83	Fresh, less vesicular doleritic basalt. Up to 85.5m. weakly weathered and some irregular large vesicles are included.	CL								
	87	165.83										
	88	165.83	Fresh, less vesicular doleritic basalt. Up to 85.5m. weakly weathered and some irregular large vesicles are included.	CH								
	89	165.83										
	90	163.83	Fresh, less vesicular doleritic basalt. Up to 85.5m. weakly weathered and some irregular large vesicles are included.	CL								
	91	162.83										
	92	162.83	Fresh, less vesicular doleritic basalt. Up to 85.5m. weakly weathered and some irregular large vesicles are included.	CH								
	93	162.83										
	94	162.83	Fresh, less vesicular doleritic basalt. Up to 85.5m. weakly weathered and some irregular large vesicles are included.	CL								
	95	162.83										
	96	162.83	Fresh, less vesicular doleritic basalt. Up to 85.5m. weakly weathered and some irregular large vesicles are included.	CH								
	97	162.83										
	98	162.83	Fresh, less vesicular doleritic basalt. Up to 85.5m. weakly weathered and some irregular large vesicles are included.	CL								
	99	162.83										
	100	162.83	Fresh, less vesicular doleritic basalt. Up to 85.5m. weakly weathered and some irregular large vesicles are included.	CH								
	101	162.83										

R.O.D. is Rock Quality Designation. R.O.D. (Total length of cylindrical cores longer than 10 cm / Total drill length) x 100%  
 KLUCEON VALUE is 1/min/m under injection water pressure of 10kg/cm2  
 DEPTH and ELEVATION are in meter  
 DIAMETER is in millimeter

## DRILLING LOG OF JD-10 (3/4)

GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY

NIPPON KOEI CO., LTD.,  
 CONSULTING ENGINEERS, TOKYO

# DRILL LOG

SHEET NO. 4 OF 4

SITE		TRO DAMSITE		HOLE No.		JD-10							
LATITUDE		996771.03		LONGITUDE		994889.31							
DATE				ELEVATION		252.83m							
ANGLE		150° UP DOWN		DEPTH		120.00m							
SCALE	DEPTH	ELEVATION	CEOLOGICAL AGE	ROCK TYPE	DIRECTION	SLOPE	DATE	BIT & DIAMETER	HORIZON	WATER LEVEL	CORE RECOVERY	R.O.D. X (m)	WATER PRESSURE TEST
	91	91.00	131.00	Basalt	CH								
	92	91.70	151.15	Weathered Basalt	CH-CL	Moderately weathered basalt. Reddish grey to cream colored. Up to 94.00m, spherulitic vesicles are included.							
	93	92.00	150.93										
	94	94.00	155.83	Flow Breccia	CL-0	Flow breccia like texture is observed. Moderately weathered, basalt. Reddish grey to cream colored.							
	95	95.00	157.62										
	96	95.00	156.87	Weathered Basalt	CH-CL	Fresh, less vesicular doleritic basalt. Few spherulitic vesicles are included. Some cracks are filled with white calcareous material. Below 102.3m, compact and very hard.							
	97	97.00	155.83										
	98	98.00	154.83	Basalt	CH								
	99	99.00	154.43										
	100	100.00	152.83	Basalt	CH								
	101	101.00	151.03										
	102	102.00	149.83	Basalt	CH								
	103	103.00	149.63										
	104	104.00	149.83	Basalt	CH								
	105	105.00	147.83										
	106	105.00	145.83	Basalt	CH								
	107	107.00	145.73										
	108	109.00	144.83	Basalt	CH								
	109	109.00	143.83										
	110	110.00	142.83	Basalt	CH								
	111	111.00	141.83										
	112	112.00	140.83	Basalt	CH								
	113	113.00	139.83										
	114	114.00	137.83	Basalt	CH								
	115	115.00	137.83										
	116	116.00	135.83	Basalt	CH								
	117	117.00	133.83										
	118	118.00	132.83	Basalt	CH								
	119	119.00	133.83										
	120	120.00	132.83										

R.O.D. is Rock Quality Designation. R.O.D. = (total length of cylindrical cores longer than 10 cm) / (total drill length) x 100%  
 KUBISEN VALUE is 1/min/m under injection water pressure of 10kg/cm2  
 DEPTH and ELEVATION are in meter  
 DIAMETER is in millimeter

NIPPON KOEI CO., LTD.,  
 CONSULTING ENGINEERS, TOKYO

## DRILLING LOG OF JD-10 (4/4)

GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY

# DRILL LOG

SHEET NO. 1 OF 2

Fig. B-59

SITE		TRO DAMSITE		HOLE NO.		JD-11								
LATITUDE		997323.75		LONGITUDE		994760.25								
DATE				ELEVATION		149.07m								
ANGLE		180° UP DOWN		DEPTH		36.00m								
SCALE	DEPTH	ELEVATION	GEOLOGICAL AGE	ROCK TYPE	DIRECTION	SLOPE	DATE	BIT & DIAMETER	HORIZON	WATER LEVEL	CORE RECOVERY % (m)	R.O.D % (m)	WATER PRESSURE TEST	
														ROCK CLASS
1	1.00	148.07	ALLUVIAL	Top Soil										
2	2.00	147.07		Talus Deposits										
3	3.00	146.07												
4	4.00	145.07												
5	5.00	144.07	YOUNG LAVA 1 (Y1)	Basalt	CH									
6	6.00	143.07												
7	7.00	142.07												
8	8.00	141.07												
9	8.70	140.37												
10	9.00	140.07												
11	10.00	139.07												
12	11.00	137.27												
13	12.00	137.07												
14	13.00	135.07		Hard Clay										
15	13.40	135.67												
16	14.00	135.07	OLD LAVA	Weathered Basalt	CH									
17	15.00	134.07												
18	16.00	133.07												
19	17.00	132.07												
20	18.00	131.07												
21	19.00	130.07												
22	20.00	129.07												
23	21.00	128.07												
24	22.00	127.07												
25	23.00	126.07		Porphyritic Basalt		CL								
26	24.00	125.07												
27	25.00	124.07												
28	26.00	123.07												
29	27.00	122.07												
30	28.00	121.07												

\*R.O.D is Rock Quality Designation, R.O.D = (Total length of cylindrical cores longer than 10 cm) / (Total drill length) x 100%  
 †R.O.D is Rock Quality Designation, R.O.D = (Total length of cylindrical cores longer than 10 cm) / (Total drill length) x 100%  
 ‡DEPTH and ELEVATION are in meter  
 §DIAMETER is in millimeter

# DRILL LOG

SHEET NO. 2 OF 2

Fig. B-60

SITE		TRO DAMSITE		HOLE No. JD-11		
LATITUDE		LONGITUDE		ELEVATION		
DATE		997323.75		994760.25		
ANGLE		DIRECTION		SLOPE		
ELEVATION		ROCK TYPE		DESCRIPTION		
DEPTH		ROCK CLASS		DATE		
SCALE		COLUMN SECTION		BIT & DIAMETER		
		GEOLOGICAL AGE		WATER LEVEL		
		ROCK TYPE		CORE RECOVERY		
		ROCK CLASS		R.O.D. X (m)		
		ROCK CLASS		WATER PRESSURE TEST		
31	31.00	118.07	CL-CL	0	0	
32	32.00	117.07	CL	10	10	
33	33.00	116.07	CL	20	20	
34	34.00	115.07	CL	30	30	
35	35.00	114.07	CL	40	40	
36	36.00	113.07	CL	50	50	
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						
48						
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
60						

R.O.D. is Rock Quality Designation. R.O.D. = (Total length of cylindrical cores longer than 10 cm) / (Total drill length) x 100%  
 X LUBRON VALUE is J/min/m under injection water pressure of 10kg/cm2  
 \*DEPTH and ELEVATION are in meter  
 #DIAMETER is in millimeter

NIPPON KOEI CO., LTD.,  
 CONSULTING ENGINEERS, TOKYO

DRILLING LOG OF JD-11 (2/2)

GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY

# DRILL LOG

SHEET NO. 1 OF 4

SITE		TRO DAMSITE		HOLE No.		JD-12								
LATITUDE		996906.88		LONGITUDE		994991.81								
DATE				ELEVATION		250.17m								
ANGLE		180° UP DOWN		DEPTH		120.00m								
SCALE	DEPTH	ELEVATION	GEOLOGICAL AGE	ROCK TYPE	COLUMN SECTION	DIRECTION	SLOPE	DATE	BIT & DIAMETER	HORIZON	WATER LEVEL	CORE RECOVERY % (m)	R.G.D % (m)	WATER PRESSURE TEST
	1	249.17	ALLUVIAL	Residual Soil	[Hatched Pattern]	N 270° W 90° E								
	2	249.17												
	3	247.17												
	4	246.17												
	5	245.17	YOUNG LAVA 4 (YLA)	Weathered Basalt	[Dotted Pattern]	N 90° E								
	6	244.17												
	7	243.17												
	8	242.17												
	9	241.17												
	10	240.17												
	11	239.17												
	12	238.17												
	13	237.37												
	14	236.17												
	15	235.17	Basalt	Basalt	[Cross-hatched Pattern]	N 90° E								
	16	234.17												
	17	233.17												
	18	232.17												
	19	231.17												
	20	230.17												
	21	229.17												
	22	228.17												
	23	227.17												
	24	226.17												
	25	225.17	Weathered Basalt	Weathered Basalt	[Dotted Pattern]	N 90° E								
	26	224.57												
	27	224.17												
	28	223.17												
	29	222.17												
	30	220.17	Basalt	Basalt	[Cross-hatched Pattern]	N 90° E								
	31	219.77												

Fig. B-61

NIPPON KOEI CO., LTD.,  
CONSULTING ENGINEERS, TOKYO

R.G.D. is Rock Quality Designation. R.G.D. = (Total length of cylindrical cores longer than 10 cm / Total drill length) x 100%  
 X LOGED VALUE is 1/min/m under injection water pressure of 10kg/cm<sup>2</sup>  
 \*DEPTH and ELEVATION are in meter  
 †DIAMETER is in millimeter

## DRILLING LOG OF JD-12 (1/4)

GOVERNMENT OF MAURITIUS  
PORT LOUIS WATER SUPPLY PROJECT  
JAPAN INTERNATIONAL COOPERATION AGENCY



# DRILL LOG

SHEET NO. 2 OF 4

SITE	TRO DAMS IIE		
LATITUDE	996906.88	LONGITUDE	994991.81
DATE	99/09/12		
ANGLE	HOLE NO. JD-12		
DEPTH	ELEVATION 250.17m		
SCALE	DEPTH 120.00m		

SCALE	DEPTH	ELEVATION	GEOLOGICAL AGE	ROCK TYPE	DIRECTION		DESCRIPTION	DATE	BIT & DIAMETER	WATER LEVEL	CORE RECOVERY % (m)	R.O.D. x (m)	WATER PRESSURE TEST
					ROCK CLASS	ROCK SECTION							
31	31.00	219.17	YOUNG LAVA 4 (YL4)	Basalt	CH		Hard rock with large pores sparsely.				100	100	
32	32.00	218.17									100	100	
33	33.00	217.17									100	100	
34	34.00	216.57									100	100	
35	35.00	215.17		Flow Breccia	D		Yellowish brown. Brecciated lava flow highly weathered and decomposed.				100	100	
36	36.00	214.77		Hard Clay	D		Reddish brown, sandy, dense.				100	100	
37	37.00	213.17		Basalt	CH		Bluish dark gray, doleritic, hard.				100	100	
38	38.00	212.17		Basalt	CH		Highly weathered, with pores sparsely.				100	100	
39	39.00	211.17		Weathered Basalt	CL		Moderately weathered, vesicular, with subhorizontal slickensides.				100	100	
40	40.00	210.17		Basalt	CH		Vesicular, fresh.				100	100	
41	41.00	209.17		Weathered Basalt	CL-D		Vesicular, highly weathered and partly disintegrated into sandy clay. Core samples are broken into fragments.				100	100	
42	42.00	208.17		Basalt	CH		Moderately weathered.				100	100	
43	43.00	207.77		Weathered Basalt	CM		Slightly weathered to fresh. Hard.				100	100	
44	44.00	206.17	YOUNG LAVA 3 (YL3)	Basalt	CH						100	100	
45	45.00	205.17									100	100	
46	46.00	204.17									100	100	
47	47.00	203.17									100	100	
48	48.00	202.17		Basalt	CH						100	100	
49	49.00	201.17									100	100	
50	50.00	200.17									100	100	
51	51.00	199.17									100	100	
52	52.00	198.17									100	100	
53	53.00	197.17		Weathered Basalt	CM		Vesicular, moderately weathered, brown coloured, medium hard.				100	100	
54	54.00	196.17									100	100	
55	55.00	195.17									100	100	
56	56.00	194.17									100	100	
57	57.00	193.17		Basalt	CH		Vesicular except 61.2m to 61.8m. Fresh and solid, with white clay on joints.				100	100	
58	58.00	192.17									100	100	
59	59.00	191.17									100	100	
60	60.00	190.17									100	100	

R.O.D. is Rock Quality Designation. R.O.D. = (total length of cylindrical cores longer than 10 cm) / (total drill length) x 100%  
 KLUGEON VALUE is l/min/m under injection water pressure of 10kg/cm<sup>2</sup>  
 XDEPTH and ELEVATION are in meter  
 XDIAMETER is in millimeter

## DRILLING LOG OF JD-12 (2/4)

GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY

NIPPON KOEI CO., LTD.,  
 CONSULTING ENGINEERS, TOKYO

DRILL LOG SHEET NO.3 OF 4

SITE		TRO DAMSITE		HOLE No.		JD-12												
LATITUDE		LONGITUDE		ELEVATION		250.17m												
DATE		994991.81		DEPTH		120.00m												
ANGLE	SCALE	DEPTH	ELEVATION	GEOLOGICAL AGE	ROCK TYPE	COLUMN SECTION	ROCK CLASS	DESCRIPTION	DATE	BIT & DIAMETER	HORIZON °	WATER LEVEL	CORE RECOVERY % (m)	R.O.D. X (m)	WATER PRESSURE TEST			
																180° UP 00° N	270° W 90° E 180° S	90°
51	61.00	189.17	189.17	YOUNG LAVA 3 (YL3)	Basalt	CH	CH	Vesicular except 61.2m to 61.8m. Fresh and solid, with white clay on joints.										
52	62.00	189.17	189.17		Weathered Basalt	CL	CL	Highly weathered, soft, with white colomitic inclusions in pores. 63.0 to 64.0m very soft.										
53	63.00	189.17	189.17		Basalt	D	D	Vesicular, fresh and solid.										
54	64.00	189.17	189.17		YOUNG LAVA 2 (YL2)	Basalt	CH	CH	Purple, altered and weathered, friable. Reddish brown. 70.9 to 71.1m Yellow decomposed basalt.									
55	65.00	189.17	189.17			Weathered Basalt	D	D	Not vesicular. Weathered sections, 20 to 30cm long, are intercalated.									
56	66.00	189.17	189.17			Hard Clay	CH	CH	Vesicular, highly weathered. Brownish gray coloured soft rock. A section from 76.10m to 79.25m is fresh except intensive weathering on joints.									
57	67.00	189.17	189.17			Weathered Basalt	CL	CL	Moderately to slightly weathered, hard rock.									
58	68.00	189.17	189.17			Basalt	D	D	Highly weathered, soft rock.									
59	69.00	189.17	189.17			Weathered Basalt	CH	CH	Not vesicular in the upper part, and vesicular in the lower part. Massive with infrequent joints.									
60	70.00	189.17	189.17			Basalt	D	D	Vesicular, highly weathered, soft.									
61	71.00	189.17	189.17	Weathered Basalt		CH	CH											
62	72.00	189.17	189.17	Basalt		D	D											
63	73.00	189.17	189.17	Weathered Basalt		CH	CH											
64	74.00	189.17	189.17	Basalt	D	D												
65	75.00	189.17	189.17	Weathered Basalt	CH	CH												
66	76.00	189.17	189.17	Basalt	D	D												
67	77.00	189.17	189.17	Weathered Basalt	CH	CH												
68	78.00	189.17	189.17	Basalt	D	D												
69	79.00	189.17	189.17	Weathered Basalt	CH	CH												
70	80.00	189.17	189.17	Basalt	D	D												
71	81.00	189.17	189.17	Weathered Basalt	CH	CH												
72	82.00	189.17	189.17	Basalt	D	D												
73	83.00	189.17	189.17	Weathered Basalt	CH	CH												
74	84.00	189.17	189.17	Basalt	D	D												
75	85.00	189.17	189.17	Weathered Basalt	CH	CH												
76	86.00	189.17	189.17	Basalt	D	D												
77	87.00	189.17	189.17	Weathered Basalt	CH	CH												
78	88.00	189.17	189.17	Basalt	D	D												
79	89.00	189.17	189.17	Weathered Basalt	CH	CH												
80	90.00	189.17	189.17	Basalt	D	D												
81	91.00	189.17	189.17	Weathered Basalt	CH	CH												
82	92.00	189.17	189.17	Basalt	D	D												
83	93.00	189.17	189.17	Weathered Basalt	CH	CH												
84	94.00	189.17	189.17	Basalt	D	D												
85	95.00	189.17	189.17	Weathered Basalt	CH	CH												
86	96.00	189.17	189.17	Basalt	D	D												
87	97.00	189.17	189.17	Weathered Basalt	CH	CH												
88	98.00	189.17	189.17	Basalt	D	D												
89	99.00	189.17	189.17	Weathered Basalt	CH	CH												
90	100.00	189.17	189.17	Basalt	D	D												

\*R.O.D is Rock Quality Designation. R.O.D= (Total length of cylindrical cores longer than 10 cm) / (Total drill length) x 100%  
 \*LUCEON VALUE is 1/min/m under injection water pressure of 10kg/cm2  
 \*DEPTH and ELEVATION are in meter  
 \*DIAMETER is in millimeter

NIPPON KOEI CO., LTD.,  
 CONSULTING ENGINEERS, TOKYO

DRILLING LOG OF JD-12 (3/4)

GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY

# DRILL LOG

SHEET NO. 4 OF 4

Fig. B-64

SITE		TRO DAMSITE		HOLE NO.		JD-12	
LATITUDE		996906.88		LONGITUDE		994991.81	
DATE				ELEVATION		250.17m	
ANGLE		DIRECTION		SLOPE		DEPTH	
SCALE		ROCK TYPE		DESCRIPTION		WATER PRESSURE TEST	
DEPTH		ROCK CLASS		DATE		CORRECTION	
ELEVATION		CORRECTION		CORRECTION		CORRECTION	
91	91.00	159.17	CL	Vesicular, highly weathered, soft.			
92	92.00	159.17	CM	Vesicular, moderately weathered, white dolomite inclusions in pores.			
93	93.00	157.17	CL	Highly weathered.			
94	94.00	155.17	CH	Hard, solid rock, with relatively large pores sparsely.			
95	95.00	155.17	CL	Highly weathered.			
96	96.00	154.17	CM	Vesicular, moderately weathered.			
97	97.00	153.17	CH	Vesicular, hard.			
98	98.00	152.17	CL	Highly weathered.			
99	99.00	151.17	CM	Vesicular, moderately weathered.			
100	100.00	149.47	CH	Vesicular, highly weathered.			
101	101.00	149.17	CL	Vesicular, moderately weathered.			
102	102.00	148.17	CH	Vesicular, highly weathered.			
103	103.00	147.17	CL	Vesicular, moderately weathered.			
104	104.00	146.17	CH	Vesicular, highly weathered.			
105	105.00	144.17	CL	Vesicular, moderately weathered.			
106	106.00	143.17	CH	Vesicular, highly weathered.			
107	107.00	142.37	CL	Mixture of moderately weathered rock, highly weathered rock and reddish brown hard clay.			
108	108.00	141.17	CH-CH	Vesicular, moderately weathered rock, with white dolomite inclusion in pores and joints. Moderately hard and solid rock.			
109	109.00	140.57	CL-D				
110	110.00	139.17	CH-CH				
111	111.00	138.17	CL-D				
112	112.00	137.17	CH-CH				
113	113.00	137.17	CL-D				
114	114.00	135.17	CH-CH				
115	115.00	135.17	CL-D				
116	116.00	134.17	CH-CH				
117	117.00	133.17	CL-D				
118	118.00	132.17	CH-CH				
119	119.00	131.17	CL-D				
120	120.00	130.17	CH-CH				

R.O.D. is Rock Quality Designation. R.G.D. (Total length of cylindrical cores longer than 10 cm / Total drill length) x 100%  
 KLUSEON VALUE is 1/min/m under injection water pressure of 40kg/cm<sup>2</sup>  
 X DEPTH and ELEVATION are in meter  
 X DIAMETER is in millimeter

NIPPON KOEI CO., LTD.,  
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# DRILL LOG

SHEET NO. 1 OF 4

SITE		TPO DAMSITE		HOLE NO.		JD-13				
LATITUDE		995985.81		ELEVATION		246.12m				
DATE		994896.55		DEPTH		120.00m				
ANGLE	DIRECTION		SLOPE		HORIZON	BIT S DIAMETER	WATER LEVEL			
	270° W 50° E 180° S		90°					DATE		
SCALE	DEPTH	ELEVATION	GEOLOGICAL AGE	ROCK TYPE	COLUMN SECTION	ROCK CLASS	DESCRIPTION		CORE RECOVERY % (m)	R.O.D. % (m)
								180° UP 000°N		
1	1.00	245.12	ALLUVIAL	Top Soil	Soil		Organic surface soil.	100	0	
2	2.00	244.12		Residual Soil			Reddish brown.	100	0	
3	3.00	243.12							100	0
4	4.00	242.12							100	0
5	5.00	241.12	YOUNG LAVA 4 (YL4)	Basalt	Basalt	CH	Vesicular, fresh.	100	0	
6	6.00	239.12		Weathered Basalt	Weathered Basalt	CL-D	Highly weathered, soft. Partly disintegrated. Vesicular at the top and the bottom. Non-vesicular in 12.3m to 14.0m. Brownish gray.	100	0	
7	7.00	239.12							100	0
8	8.00	238.12							100	0
9	8.98	237.32							100	0
10	10.00	235.12							100	0
11	11.00	235.12							100	0
12	12.00	234.12							100	0
13	13.00	233.12							100	0
14	14.00	232.12							100	0
15	15.00	231.12						100	0	
16	16.00	230.12						100	0	
17	17.00	229.12						100	0	
18	18.00	228.12						100	0	
19	19.00	227.12						100	0	
20	20.00	226.12						100	0	
21	21.00	225.12						100	0	
22	22.00	224.12						100	0	
23	23.00	223.12						100	0	
24	24.00	222.12						100	0	
25	25.00	221.12						100	0	
26	26.00	220.52						100	0	
27	27.00	219.12						100	0	
28	28.00	218.32						100	0	
29	29.00	217.12						100	0	
30	30.00	216.12						100	0	

R.O.D is Rock Quality Designation. R.O.D = (Total length of cylindrical cores longer than 10 cm) / (Total drill length) x 100%  
 MLUGEON VALUE is 1/min/m under injection water pressure of 10kg/cm<sup>2</sup>  
 XDEPTH and ELEVATION are in meter  
 XDIAMETER is in millimeter

# DRILL LOG

SHEET NO. 2 OF 4

SITE		TRO DAMSITE		HOLE No.		JD-13													
LATITUDE		99°59'55.81"		LONGITUDE		99°48'58.56"													
DATE				ELEVATION		246.12m													
ANGLE		180° UP DOWN 0		DEPTH		120.00m													
SCALE	DEPTH	ELEVATION	GEOLOGICAL AGE	ROCK TYPE	DIRECTION	SLOPE	DATE	BIT & DIAMETER	WATER LEVEL	CORE RECOVERY % (m)	R.O.D. % (m)	WATER PRESSURE TEST							
													ROCK CLASS	DESCRIPTION					
	30.40	245.72	Flow Breccia	CL	Vesicular, doleritic, fresh, hard. Dark gray, partly non-vesicular.														
	31.00	245.12	YOUNG LAVA 4 (YL4)	Basalt	CH					31.00	131.00								
	32.00	214.12								32.00	132.00								
	33.00	213.12								33.00	133.00								
	34.00	212.12								34.00	134.00								
	35.00	211.12								35.00	135.00								
	36.00	210.12								36.00	136.00								
	37.00	209.42								37.00	137.00								
	37.30	209.82								37.30	137.00								
	38.00	208.12								YOUNG LAVA 3 (YL3)	Hard Clay	D	Highly weathered, soft, friable. Reddish brown, shaly.				38.00	138.00	
	39.00	207.42															39.00	139.00	
	40.00	205.12	40.00	140.00															
	40.40	205.72	40.40	140.00															
	41.00	205.12	41.00	141.00															
	41.50	204.62	41.50	141.00															
	42.00	204.12	42.00	142.00															
	43.00	203.12	43.00	143.00															
	44.00	202.12	44.00	144.00															
	45.00	201.12	Weathered Basalt	CH	Non-vesicular, highly weathered basalt. Vesicular, highly weathered basalt. Discoloured to brownish gray and soft. Partly disintegrated.												45.00	145.00	
	46.00	200.12								46.00	146.00								
	47.00	199.12								47.00	147.00								
	48.00	198.12								48.00	148.00								
	49.00	197.42								49.00	149.00								
	50.00	195.12								50.00	150.00								
	51.00	195.12								51.00	151.00								
	52.00	194.12								52.00	152.00								
	53.00	193.12								53.00	153.00								
	54.00	192.12								Weathered Basalt	CH	Fresh, hard, massive. Vesicular in 49.1m to 49.7m. Generally vesicular. Moderately to highly weathered. 52.0m to 52.2m. 53.7m to 54.0m Deteriorated, very soft.					54.00	154.00	
	54.40	191.72	54.40	154.00															
	55.00	191.12	55.00	155.00															
	56.00	189.72	56.00	156.00															
	57.00	189.12	Flow Breccia	D	Moderately weathered, hard vesicular basalt. Basalt fragments with discoloured compact silty matrix.												57.00	157.00	
	58.00	183.12															58.00	158.00	
	59.00	182.12															59.00	159.00	
	59.00	181.12															59.00	160.00	
	60.00	180.12															60.00	161.00	

R.O.D. is Rock Quality Designation. R.O.D. = (Total length of cylindrical cores longer than 10 cm) / (Total drill length) x 100%  
 \*LOGON VALUE is l/min/m under injection water pressure of 10kg/cm<sup>2</sup>  
 \*DEPTH and ELEVATION are in meter  
 \*DIAMETER is in millimeter

## DRILLING LOG OF JD-13 (2/4)

GOVERNMENT OF MAURITIUS  
PORT LOUIS WATER SUPPLY PROJECT  
JAPAN INTERNATIONAL COOPERATION AGENCY

# DRILL LOG

SHEET NO. 3 OF 4

SITE		TRO DAMSITE		HOLE No. JD-13		ELEVATION 246.12m		DEPTH 120.00m	
LATITUDE		LONGITUDE		994898.56		CORE RECOVERY % (m)		R.O.D. % (m)	
DATE		DIRECTION		HORIZON $\alpha$		BIT & DIAMETER		WATER LEVEL	
ANGLE		ROCK TYPE		SLOPE		DATE		WATER PRESSURE TEST	
ELEVATION		ROCK CLASS		DESCRIPTION		DATE		WATER PRESSURE TEST	
DEPTH		COLUMN SECTION		DESCRIPTION		DATE		WATER PRESSURE TEST	
SCALE		ROCK TYPE		DESCRIPTION		DATE		WATER PRESSURE TEST	
51	81.00	185.12	Basalt	CH	Dark grey. Vesicular at the top and bottom, non-vesicular in the middle part from 60.5m to 61.5m.				
52	82.00	184.12	Basalt	CH	Highly weathered. Red clay at bottom.				
53	82.80	183.32	Basalt	CH	Non-vesicular basalt, of which fresh parts and highly weathered parts alternate at 30 to 70cm intervals. Highly weathered parts are brown coloured and soft.				
54	84.00	182.12	Basalt	CH					
55	85.00	181.12	Basalt	CH					
56	86.00	180.12	Basalt	CH					
57	87.00	179.12	Basalt	CH					
58	88.00	178.12	Basalt	CH					
59	89.00	177.12	Basalt	CH					
60	90.00	176.12	Basalt	CH					
61	91.00	175.12	Basalt	CH					
62	92.00	174.12	Basalt	CH					
63	93.00	173.12	Basalt	CH					
64	94.00	172.12	Basalt	CH					
65	95.00	171.12	Basalt	CH					
66	96.00	170.12	Basalt	CH					
67	97.00	169.12	Basalt	CH					
68	98.00	168.12	Basalt	CH					
69	99.00	167.12	Basalt	CH					
70	100.00	166.12	Basalt	CH					
71	101.00	165.12	Basalt	CH					
72	102.00	164.12	Basalt	CH					
73	103.00	163.12	Basalt	CH					
74	104.00	162.12	Basalt	CH					
75	105.00	161.12	Basalt	CH					
76	106.00	160.12	Basalt	CH					
77	107.00	159.12	Basalt	CH					
78	108.00	158.12	Basalt	CH					
79	109.00	157.12	Basalt	CH					
80	110.00	156.12	Basalt	CH					
81	111.00	155.12	Basalt	CH					
82	112.00	154.12	Basalt	CH					
83	113.00	153.12	Basalt	CH					
84	114.00	152.12	Basalt	CH					
85	115.00	151.12	Basalt	CH					
86	116.00	150.12	Basalt	CH					
87	117.00	149.12	Basalt	CH					
88	118.00	148.12	Basalt	CH					
89	119.00	147.12	Basalt	CH					
90	120.00	146.12	Basalt	CH					

Fig. B-67

NIPPON KOEI CO., LTD.  
CONSULTING ENGINEERS, TOKYO

\*R.O.D. is Rock Quality Designation. R.O.D. (Total length of cylindrical cores longer than 10 cm / (Total drill length) x 100%)  
 \*LOGON VALUE is 1/min/m under injection water pressure of 10kg/cm<sup>2</sup>  
 \*DEPTH and ELEVATION are in meter  
 \*DIAMETER is in millimeter

# DRILL LOG

SHEET NO. 4 OF 4

SITE		TRO DAMSITE		HOLE No. JD-13		ELEVATION		DEPTH								
LATITUDE		LONGITUDE		994898.56		246.12m		120.00m								
DATE		996895.81		994898.56												
ANGLE	SCALE	DIRECTION		SLOPE	HORIZONTAL $\sigma$	CORE RECOVERY		WATER PRESSURE TEST								
		180° UP	180° DOWN			% (m)	R.O.D. $\pm$ (m)	0	10	20	30	40	50			
DEPTH	ELEVATION	ROCK TYPE	COLUMN SECTION	ROCK CLASS	DESCRIPTION	BIT & DIAMETER	DATE	WATER LEVEL								
91	91.00 - 155.12	Basalt		CH	Hard but friable.											
92	92.00 - 154.12	Basalt		CH	Non-vesicular, doleritic, fresh, hard.											
93	93.00 - 153.12	Basalt		CH												
94	94.00 - 152.12	Basalt		CH												
95	95.00 - 151.12	Basalt		CH												
96	96.50 - 149.52	Basalt		CH	Vesicular, moderately weathered.											
97	97.00 - 148.12	Weathered Basalt		D	Vesicular, highly weathered to clay.											
98	98.00 - 146.12	Basalt		CH	Vesicular at the bottom. Fresh, hard.											
99	99.00 - 147.12	Basalt		CH												
100	100.00 - 145.12	Basalt		CL	Non-vesicular, highly weathered.											
101	100.00 - 145.12	Weathered Basalt		CH	Vesicular at the top and the bottom.											
102	102.00 - 144.12	Basalt		CL	Highly weathered, purple coloured. 103.0 to 103.4m Silty.											
103	103.00 - 143.12	Basalt		CH	Vesicular only at the top 1.2 metre section. Fresh, hard. Porphyritic.											
104	104.00 - 142.12	Basalt		CH												
105	105.00 - 141.12	Basalt		CH												
106	106.00 - 139.72	Basalt		CH												
107	107.00 - 139.12	Basalt		CH												
108	108.00 - 137.12	Basalt		CH												
109	109.50 - 135.02	Basalt		CH												
110	110.00 - 135.12	Flow Breccia		CL	Vesicular, moderately weathered basalt mixed with reddish brown clay.											
111	111.00 - 135.12	Flow Clay		D	Reddish brown shaly hard clay.											
112	112.00 - 134.12	Basalt		CH	Porphyritic basalt, slightly weathered to fresh. Generally vesicular except in 112.4 to 113.0m and 116.5 to 117.6m. White doleritic inclusions in pores. Weathering and formation of white clay on joints.											
113	113.00 - 133.12	Basalt		CH												
114	114.00 - 132.12	Basalt		CH												
115	115.00 - 131.12	Basalt		CH												
116	115.00 - 130.12	Basalt		CH												
117	117.00 - 129.12	Basalt		CH												
118	118.00 - 129.12	Basalt		CH												
119	119.00 - 127.12	Basalt		CH												
120	120.00 - 125.12	Basalt		CH												

Upper Depth: 50.00  
Lower Depth: 100.00  
Lugeon Value: 2.70  
k Value: 0.000338

Upper Depth: 100.00  
Lower Depth: 110.00  
Lugeon Value: 2.06  
k Value: 0.000322

\*R.O.D is Rock Quality Designation, R.O.D=(Total length of cylindrical cores longer than 10 cm)/(Total drill length) x 100%  
\*LUGEON VALUE is l/min/m under injection water pressure of 10kg/cm2  
\*DEPTH and ELEVATION are in meter  
\*DIAMETER is in millimeter

## DRILLING LOG OF JD-13 (4/4)

GOVERNMENT OF MAURITIUS  
PORT LOUIS WATER SUPPLY PROJECT  
JAPAN INTERNATIONAL COOPERATION AGENCY

DRILLING LOG

SHEET NO. 1 OF 1

SITE QUARRY SITE		HOLE No. JQ-1								
LATITUDE	0.00	LONGITUDE	0.00							
DATE		ELEVATION	0.00m							
ANGLE	180° UP 0° DOWN	DIRECTION	DEPTH 15.30m							
SCALE	GEOLOGICAL AGE	ROCK TYPE	DIRECTION	SLOPE	HORIZON	DATE	WATER LEVEL	CORE RECOVERY % (m)	R.O.D. % (m)	WATER PRESSURE TEST
	ALLUVIAL	Talus Deposits	CL							
1										
2										
3										
4										
5										
6										
7										
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30										

R.O.D. is Rock Quality Designation. R.C.D. = (Total length of cylindrical cores longer than 10 cm / (Total drill length) x 100%  
RUSEBY VALUE is 1/min/m under injection water pressure of 10kg/cm2  
DEPTH and ELEVATION are in meter  
DIAMETER is in millimeter

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DRILLING LOG OF JQ-1 (1/1)

GOVERNMENT OF MAURITIUS  
PORT LOUIS WATER SUPPLY PROJECT  
JAPAN INTERNATIONAL COOPERATION AGENCY