APPENDIX - A

A-1 Field Test Results of Soil

FIELD TEST RESULTS OF SOIL

(Dryland)

PIT NO. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
L 1 - 1	0 - 30	7.5 YR 3/3	SiC	7.3	4.17
- 2	30 - 60	7.5 YR 3/3	SiC	7.45	4.84
- 3	60 -120	10 YR 3/3	SiC	7.0	77.3
- 4	120 -200	7.5 GY 3/1	HC	7.75	10.88
L 2 - 1	0 - 30	7.5 YR 2/2	SiC	7.1	7.41
- 2	30 - 60	7.5 Y 3/3	SiL	7.0	79.4
- 3	60 -120	7.5 GY 3/1	CL	7.6	12.11
L 3 - 1	0 - 30	7.5 YR 3/2	LiC	7.4	42.8
- 2	30 - 60	7.5 YR 3/2	HC	7.15	4.7
- 3	60 -120	7.5 YR 3/3	HC	7.6	16.0
L 4 - 1	0 - 30	7.5 YR 3/1	SiC	7.1	7.2
- 2	30 - 60	7.5 YR 3/1	LiC	7.3	10.9
- 3	60 -120	2.5 Y 3/3	HC	7.55	16.7
L 5 - 1	0 - 30	7.5 YR 3/1	SiC	-	-
- 2	30 - 60	7.5 YR 3/1	LiC	-	-
- 3	60 -120	2.5 Y 2/2	LiC	-	-
- 4	120 -200	7.5 GY 3/1	HC	-	-
L 6 - 1	0 - 30	5 YR 3/2	LiC	7.35	15.85
- 2	30 - 60	5 YR 3/3	LiC	7.05	51.4
- 3	60 -120	7.5 GY 4/1	LiC	6.85	137.5
- 4	120 -200	7.5 GY 4/1	SiCL	6.95	70.5
- 5	200 -240	7.5 GY 3/1	HC	-	-
L 7 - 1	0 - 30	7.5 YR 3/1	LiC	7.55	36.8
- 2	30 - 60	7.5 YR 3/2	LiC	7.4	18.1
- 3	60 -120	7.5 GY 3/1	HC	7.35	50.3
- 4	120 -200	7.5 GY 3/1	HC	-	-
- 5	200 -240	7.5 GY 3/1	HC	-	-
L 8 - 1	0 - 30	5 YR 3/2	LiC	7.4	11.4
- 2	30 - 60	5 YR 3/3	HC	7.4	16.2
- 3	60 -120	7.5 YR 3/1	HC	7.5	23.4
- 4	120 -200	7.5 YR 3/1	HC	-	-
L 9 - 1	0 - 20	7.5 YR 3/1	SiC	-	-
- 2	20 - 60	7.5 GY 3/1	LiC	-	-
- 3	60 -120	7.5 GY 3/1	HC	-	-
- 4	120 -200	7.5 GY 3/1	HC	-	-

- continued -

FIELD TEST RESULTS OF SOIL

(Dryland)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
L 10 - 1	0 - 30	7.5 YR 2/3	SiCL	6.85	70.2
- 2	30 - 60	7.5 YR 3/4	SiC	6.85	61.6
- 3	60 -120	7.5 YR 4/3	SiC	6.95	78.1
- 4	120 -200	7.5 YR 2/2	SiC	-	-
L 11 - 1	0 - 30	7.5 YR 3/3	CL	6.75	154.9
- 2	30 - 60	7.5 YR 3/2	CL	6.85	69.5
- 3	60 -120	7.5 YR 2/2	LiC	6.85	74.9
- 4	120 -200	7.5 YR 2/2	LiC	6.75	73.9
- 5	200 -280	10 Y 5/1	HC	-	-
L 12 - 1	0 - 30	7.5 YR 3/3	SiC	-	-
- 2	30 - 60	7.5 YR 3/3	SiC	-	-
- 3	60 -120	7.5 YR 3/2	LiC	-	-
- 4	120 -220	7.5 YR 2/2	HC	-	-
L 13 - 1	0 - 30	7.5 YR 3/3	LiC	-	-
- 2	30 - 60	7.5 YR 3/3	LiC	-	-
- 3	60 -120	7.5 YR 2/2	LiC	-	-
- 4	120 -210	7.5 YR 2/2	HC	-	-
L 14 - 1	0 - 30	N 2/0	HC	6.85	141.3
- 2	30 - 60	5 YR 3/2	LiC	7.35	37.6
- 3	60 -120	5 YR 2/2	HC	7.65	8.1
- 4	120 -200	7.5 YR 2/2	LiC	-	-
- 5	200 -300	7.5 YR 2/2	HC	-	-
L 15 - 1	0 - 30	7.5 YR 3/1	SiC	7.35	15.5
- 2	30 - 60	7.5 YR 3/1	LiC	7.25	21.6
- 3	60 -120	2.5 Y 3/3	HC	7.5	9.9
L 16 - 1	0 - 30	7.5 YR 3/1	SiC	7.3	24.5
- 2	30 - 60	7.5 YR 3/1	LiC	7.45	37.7
- 3	60 -120	2.5 Y 3/3	HC	-	-
L 17 - 1	0 - 30	5 YR 3/2	SiC	-	-
- 2	30 - 60	7.5 YR 3/3	LiC	-	-
- 3	60 -120	7.5 YR 3/2	LiC	-	-
- 4	120 -200	7.5 GY 4/1	HC	-	-
L 18 - 1	0 - 30	7.5 YR 3/1	SiC	-	-
- 2	30 - 60	7.5 YR 3/1	LiC	-	-
- 3	60 -120	2.5 Y 3/3	HC	-	-

- continued -

FIELD TEST RESULTS OF SOIL

(Dryland)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
L 19 - 1	0 - 30	5 YR 3/2	SiC	-	-
- 2	30 - 60	7.5 YR 3/3	LiC	-	-
- 3	60 -120	2.5 Y 3/3	HC	-	-
- 4	120 -200	7.5 GY 4/1	HC	-	-
L 20 - 1	0 - 30	7.5 YR 3/1	SiC	-	-
- 2	30 - 60	7.5 YR 3/1	LiC	-	-
- 3	60 -120	2.5 Y 3/3	HC	-	-
- 4	120 -200	7.5 GY 4/1	HC	-	-
L 21 - 1	0 - 30	5 YR 2/2	SiC	7.5	10.8
- 2	30 - 60	10 Y 4/1	LiC	7.3	28.4
- 3	60 -120	2.5 GY 3/1	HC	7.65	36.9
- 4	120 -200	2.5 GY 3/1	HC	-	-
- 5	200 -280	2.5 GY 3/1	HC	-	-
L 22 - 1	0 - 30	5 YR 2/2	LiC	7.0	12.6
- 2	30 - 60	2.5 GY 3/1	HC	7.05	10.6
- 3	60 -120	2.5 GY 3/1	HC	7.1	7.8
- 4	120 -200	2.5 GY 3/1	HC	-	-
L 23 - 1	0 - 30	5 YR 2/2	SiC	-	-
- 2	30 - 60	10 Y 2/1	LiC	-	-
- 3	60 -120	2.5 GY 3/1	HC	-	-
- 4	120 -200	2.5 GY 3/1	HC	-	-
L 24 - 1	0 - 30	5 YR 2/2	SiC	7.7	8.8
- 2	30 - 60	10 Y 2/1	LiC	7.6	9.2
- 3	60 -120	2.5 GY 3/1	HC	7.3	12.2
- 4	120 -200	2.5 GY 3/1	HC	-	-
L 25 - 1	0 - 30	10 YR 2/2	SiC	-	-
- 2	30 - 60	10 YR 2/2	HC	-	-
- 3	60 -120	N 4/0	HC	-	-
L 26 - 1	0 - 30	5 YR 3/2	HC	7.4	9.5
- 2	30 - 60	10 YR 4/1	HC	7.3	12.7
- 3	60 -120	10 GY 3/1	HC	-	-
- 4	120 -200	5 GY 3/1	HC	-	-
L 27 - 1	0 - 30	10 YR 2/2	HC	-	-
- 2	30 - 60	10 YR 2/2	SiC	-	-
- 3	60 -120	10 YR 4/1	HC	-	-
- 4	120 -300	N 4/0	HC	-	-

- continued -

FIELD TEST RESULTS OF SOIL
(Dryland)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
L 28 - 1	0 - 30	10 YR 2/2	SiC	7.2	11.3
- 2	30 - 60	10 YR 2/2	HC	7.15	9.8
- 3	60 -120	N 4/0	HC	7.4	8.1
- 4	120 -200	N 4/0	HC	-	-
L 29 - 1	0 - 30	5 YR 3/2	HC	-	-
- 2	30 - 60	10 YR 4/1	HC	-	-
- 3	60 -120	10 GY 3/1	HC	-	-
- 4	120 -200	5 GY 3/1	HC	-	-
L 30 - 1	0 - 30	5 YR 3/2	HC	-	-
- 2	30 - 60	10 YR 4/1	HC	-	-
- 3	60 -120	10 GY 3/1	HC	-	-
- 4	120 -200	5 GY 3/1	HC	-	-
L 31 - 1	0 - 30	7.5 YR 4/2	L	6.85	112.8
- 2	30 - 60	7.5 YR 4/2	SiL	7.0	77.3
- 3	60 -120	7.5 GY		-	-
- 4	120 -220	7.5 GY		-	-
L 32 - 1	0 - 25	7.5 YR 3/2	L	-	-
- 2	35 - 60	10 GY 3/1	SiL	-	-
- 3	60 -120	10 GY 3/1	SiC	-	-
L 33 - 1	0 - 25	7.5 YR 4/1	CL	-	-
- 2	30 - 60	7.5 GY 3/1	SiC	-	-
- 3	60 -120	10 GY 4/1	SiC	-	-
L 34 - 1	0 - 25	10 YR 4/1	SiL	7.4	10.7
- 2	25 - 60	7.5 GY 3/1	SiCL	7.6	8.5
- 3	60 -120	7.5 GY 4/1	SiC	7.5	7.1
L 35 - 1	0 - 25	10 YR 3/1	SiL	7.5	9.7
- 2	25 - 60	7.5 GY 3/1	SiCL	7.6	7.3
- 3	60 -120	7.5 GY 4/1	SiC	7.6	6.1
L 36 - 1	0 - 40	10 YR 4/1	SiC	-	-
- 2	40 - 60	7.5 GY 3/1	LiC	-	-
- 3	60 -120	7.5 GY 3/1	LiC	-	-
L 37 - 1	0 - 40	7.5 YR 4/1	SiCL	-	-
- 2	40 - 60	7.5 GY 3/1	LiC	-	-
- 3	60 -120	7.5 GY 3/1	LiC	-	-

- continued -

FIELD TEST RESULTS OF SOIL

(Dryland)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
L 38 - 1	0 - 30	7.5 YR 4/1	CL	-	-
- 2	30 - 60	7.5 YR 3/1	CL	-	-
- 3	60 - 90	10 YR 3/1	SiC	-	-
- 4	90 -120	7.5 GY 4/1	SiC	-	-
L 39 - 1	0 - 30	10 YR 4/1	CL	7.5	13.4
- 2	30 - 60	7.5 YR 4/1	CL	7.4	11.2
- 3	60 - 90	7.5 GY 3/1	SiC	7.4	9.6
L 40 - 1	0 - 30	10 YR 4/1	CL	7.5	3.2
- 2	30 - 60	7.5 YR 4/1	CL	7.3	6.5
- 3	60 - 90	7.5 YR 3/1	SiL	7.1	9.2
- 4	90 -	7.5 GY 3/1	SiC		
L 41 - 1	0 - 30	10 YR 3/1	SiCL	-	-
- 2	30 - 60	10 YR 4/1	CL	-	-
- 3	60 - 90	7.5 YR 3/1	LC	-	-
- 4	90 -120	10 GY 4/1	SiC	-	-
L 42 - 1	0 - 30	10 YR 4/3	SiL	7.7	51.5
- 2	30 - 60	10 GY 3/1	SiL	7.15	71.4
- 3	60 -120	10 GY 4/1	HC	-	-
- 4	120 -200	10 G 4/1	HC	-	-
- 5	200 -260	10 G 4/1	SC	-	-
L 43 - 1	0 - 30	10 YR 4/1	S	7.45	27.8
- 2	30 - 60	7.5 YR 3/1	S	7.45	15.9
- 3	60 -120	7.5 GY 3/1	LiC	7.35	15.8
- 4	120 -200	7.5 GY 3/1	LiC	-	-
L 44 - 1	0 - 30	10 YR 4/1	S	7.2	12.8
- 2	30 - 60	10 YR 3/1	S	7.1	7.5
- 3	60 -120	7.5 YR 3/1	S	7.4	10.5
- 4	120 -200	7.5 YR 4/1	S	-	-
L 45 - 1	0 - 30	10 YR 3/1	S	7.15	10.2
- 2	30 - 60	10 YR 4/1	S	7.4	9.7
- 3	60 -120	7.5 YR 4/1	S	7.5	13.7
		7.5 YR 3/1			
L 46 - 1	0 - 30	7.5 YR 4/1	SC	-	-
- 2	30 - 60	7.5 GY 3/1	LiC	-	-
- 3	60 -120	7.5 GY 3/1	HC	-	-
- 4	120 -200	7.5 GY 3/1	HC	-	-
L 47 - 1	0 - 30	5 YR 4/3	CL	7.05	77.7
- 2	30 - 60	5 YR 3/3	SiL	7.15	53.2
- 3	60 -120	10 YR 5/1	SiC	7.35	42.4
- 4	120 -200	5 BG 4/1	LiC		

- continued -

FIELD TEST RESULTS OF SOIL

(Dryland)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
L 48 - 1	0 - 30	5 YR 4/1	SiCL	-	-
- 2	30 - 60	7.5 GY 4/1	SiC	-	-
- 3	60 -120	7.5 GY 4/1	HC	-	-
- 4	120 -200	7.5 GY 4/1	HC	-	-
L 49 - 1	0 - 30	10 YR 2/2	SiC	7.3	15.7
- 2	30 - 60	7.5 GY 3/1	LiC	7.4	14.6
- 3	60 -120	7.5 GY 3/1	HC	7.5	13.3
L 50 - 1	0 - 30	10 YR 2/2	SiC	7.05	37.6
- 2	30 - 60	7.5 GY 3/1	LiC	7.3	43.1
- 3	60 -120	7.5 GY 3/1	HC	7.65	38.5
- 4	120 -200	7.5 GY 3/1	HC	-	-
L 51 - 1	0 - 30	5 YR 2/2	LiC	-	-
- 2	30 - 60	5 GY 4/1	HC	-	-
- 3	60 -120	5 GY 3/1	HC	-	-
- 4	120 -200	5 GY 3/1	HC	-	-
L 52 - 1	0 - 30	5 YR 3/2	HC	7.3	13.3
- 2	30 - 60	5 YR 4/1	LiC	7.4	11.6
- 3	60 -120	2.5 GY 4/1	HC	7.5	9.8
- 4	120 -200	2.5 GY 3/1	HC	-	-
L 53 - 1	0 - 30	7.5 YR 3/1	LiC	-	-
- 2	30 - 60	7.5 YR 3/2	HC	-	-
- 3	60 -120	2.5 Y 4/1	HC	-	-
- 4	120 -200	7.5 GY 3/1	HC	-	-
L 54 - 1	0 - 30	5 YR 4/1	SiC	7.1	80.9
- 2	30 - 60	7.5 YR 4/1	SiC	7.65	4.49
- 3	60 -120	10 Y 4/1	HC	-	-
- 4	120 -200	10 Y 4/1	HC	-	-
L 55 - 1	0 - 30	5 YR 2/2	LiC	7.3	10.2
- 2	30 - 60	5 GY 4/1	HC	7.4	8.1
- 3	60 -120	5 GY 3/1	HC	7.5	6.6
L 56 - 1	0 - 30	5 YR 3/2	HC	7.6	8.2
- 2	30 - 60	5 YR 4/1	LiC	7.0	10.3
- 3	60 -120	2.5 GY 4/1	HC	-	-
L 57 - 1	0 - 30	5 YR 4/1	SiC	7.8	7.4
- 2	30 - 60	7.5 YR 4/1	SiC	7.0	7.8
- 3	60 -120	10 Y 4/1	HC	-	-

- continued -

FIELD TEST RESULTS OF SOIL

(Dryland)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
L 58 - 1	0 - 30	7.5 YR 3/1	HC	-	-
- 2	30 - 60	7.5 YR 3/1	HC	-	-
- 3	60 -120	7.5 YR 3/1	HC	-	-
L 59 - 1	0 - 30	10 YR 2/2	SiC	-	-
- 2	30 - 60	7.5 GY 3/1	LiC	-	-
- 3	60 -120	7.5 GY 3/1	HC	-	-
L 60 - 1	0 - 30	10 YR 2/2	SiC	-	-
- 2	30 - 60	7.5 GY 3/1	LiC	-	-
- 3	60 -120	7.5 GY 3/1	HC	-	-
L 61 - 1	0 - 30	7.5 YR 3/1	SiC	7.55	9.66
- 2	30 - 60	7.5 YR 6/1	LiC	7.55	16.28
- 3	60 -120	5 BG 2/1	HC	7.65	25.5
- 4	120 -200	5 BG 2/1	HC	-	-
L 62 - 1	0 - 30	7.5 YR 3/1	LiC	-	-
- 2	30 - 60	7.5 YR 6/1	LiC	-	-
- 3	60 -120	7.5 BG	HC	-	-
- 4	120 -200	7.5 BG	HC	-	-
L 63 - 1	0 - 25	5 YR	LiC	7.65	44.9
- 2	25 - 50	5 BG 3/1	HC	7.55	45.2
- 3	50 -100	5 BG 3/1	HC	7.5	22.0
- 4	100 -200	5 BG 3/1	HC	-	-
L 64 - 1	0 - 25	5 YR	HC	7.5	16.6
- 2	25 - 50	5 BG 3/1	HC	7.45	19.7
- 3	50 -100	5 BG 3/1	HC	7.45	28.2
L 65 - 1	0 - 25	5 YR 2/2	LiC	7.5	41.5
- 2	25 - 50	10 YR 3/3	HC	7.55	19.0
- 3	50 -100	10 YR 2/2	HC	7.45	39.7
L 66 - 1	0 - 25	5 YR 2/2	HC	7.6	18.9
- 2	25 - 50	10 YR 3/3	HC	7.6	16.0
- 3	50 -100	10 YR 2/2	HC	7.4	9.7
L 67 - 1	0 - 25	5 YR 4/1	LiC	7.5	5.5
- 2	25 - 50	7.5 GY 4/1	HC	7.4	4.2
- 3	50 -100	7.5 GY 4/1	HC	7.6	3.9
- 4	100 -200	7.5 GY 4/1	HC	-	-

- continued -

FIELD TEST RESULTS OF SOIL

(Dryland)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
L 68 - 1	0 - 30	5 YR 4/1	LiC	-	-
- 2	30 - 70	7.5 GY 4/1	HC	-	-
- 3	70 -120	7.5 GY 3/1	HC	-	-
- 4	120 -200	7.5 GY 3/1	HC	-	-
L 69 - 1	0 - 25	7.5 YR	LiC	7.6	12.5
- 2	25 - 50	7.5 YR	HC	7.55	21.2
- 3	50 -100	7.5 YR	HC	7.45	42.5
- 4	100 -200	7.5 GY 3/1	HC	-	-
L 70 - 1	0 - 30	7.5 YR	LiC	-	-
- 2	30 - 60	7.5 YR	HC	-	-
- 3	60 -120	7.5 GY 3/1	HC	-	-
- 4	120 -200	7.5 GY 3/1	HC	-	-
L 71 - 1	0 - 30	5 YR 2/2	LiC	7.35	7.55
- 2	30 - 60	10 YR 3/3	CL	7.25	9.41
- 3	60 -120	10 YR 2/2	HC	7.55	12.11
- 4	120 -200	2.5 Y 3/1	HC	-	-
L 72 - 1	0 - 50	5 YR 2/2	LiC	-	-
- 2	50 -120	10 YR 2/2	HC	-	-
- 3	120 -200	2.5 Y 3/1	HC	-	-
L 73 - 1	0 - 50	5 YR 2/2	LiC	-	-
- 2	50 -120	10 YR 2/2	HC	-	-
- 3	120 -200	2.5 Y 3/1	HC	-	-
L 74 - 1	0 - 25	7.5 YR	HC	7.2	9.7
- 2	25 - 50	7.5 YR	HC	7.4	10.5
- 3	50 -100	7.5 GY 3/1	HC	7.5	9.9
- 4	100 -200	7.5 GY 3/1	HC	-	-
L 75 - 1	0 - 25	7.5 YR 3/1	HC	7.55	9.5
- 2	25 - 50	7.5 YR 3/1	HC	7.4	10.5
- 3	50 -100	7.5 YR 3/1	HC	7.3	12.4
- 4	100 -200	7.5 YR 3/1	HC	-	-
L 76 - 1	0 - 30	7.5 YR 3/1	HC	-	-
- 2	30 - 60	7.5 YR 3/1	HC	-	-
- 3	60 -120	7.5 YR 3/1	HC	-	-
L 77 - 1	0 - 30	7.5 YR 3/1	HC	-	-
- 2	30 - 60	7.5 YR 3/1	HC	-	-
- 3	60 -120	7.5 YR 3/1	HC	-	-

- continued -

FIELD TEST RESULTS OF SOIL
(Dryland)

PIT NO. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
L 78 - 1	0 - 25	7.5 YR 3/1	HC	7.6	8.9
- 2	25 - 50	7.5 YR 3/1	HC	7.45	10.5
- 3	50 -100	7.5 YR 3/1	HC	7.75	7.3
L 79 - 1	0 - 25	7.5 YR 3/1	HC	7.15	12.0
- 2	25 - 50	7.5 YR 3/1	HC	7.55	18.5
- 3	50 -100	7.5 YR 3/1	HC	7.6	11.6
L 80 - 1	0 - 25	7.5 YR	LiC	-	-
- 2	25 - 50	7.5 YR	HC	-	-
- 3	50 -100	7.5 GY 3/1	HC	-	-
L 81 - 1	0 - 30	5 YR 2/2	LiC	7.7	36.1
- 2	30 - 60	5 GY 4/1	HC	7.45	41.7
- 3	60 -120	5 GY 3/1	HC	-	-
L 82 - 1	0 - 30	5 YR 2/2	LiC	-	-
- 2	30 - 60	5 GY 4/1	HC	-	-
- 3	60 -120	5 GY 4/1	HC	-	-
L 83 - 1	0 - 30	5 YR 2/2	LiC	7.6	8.2
- 2	30 - 60	5 GY 4/1	HC	7.5	9.5
- 3	60 -120	5 GY 3/1	HC	7.45	10.8
L 84 - 1	0 - 30	5 YR 2/2	LiC	-	-
- 2	30 - 60	5 GY 4/1	HC	-	-
- 3	60 -120	5 GY 4/1	HC	-	-
L 85 - 1	0 - 30	5 YR 4/1	LiC	-	-
- 2	30 - 60	5 GY 4/1	HC	-	-
- 3	60 -120	5 GY 4/1	HC	-	-
L 86 - 1	0 - 30	5 YR 2/2	LiC	-	-
- 2	30 - 60	5 GY 4/1	HC	-	-
- 3	60 -120	5 Gy 3/1	HC	-	-
L 87 - 1	0 - 30	5 YR	HC	-	-
- 2	30 - 60	5 YR	HC	-	-
- 3	60 -120	5 YR	HC	-	-
L 88 - 1	0 - 30	5 YR	HC	-	-
- 2	30 - 60	5 YR	HC	-	-
- 3	60 -120	5 YR	HC	-	-

- continued -

FIELD TEST RESULTS OF SOIL

(Dryland)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
L 89 - 1	0 - 30	5 YR 2/2	LiC	-	-
- 2	30 - 60	5 GY 4/1	HC	-	-
- 3	60 -120	5 GY 3/1	HC	-	-
L 90 - 1	0 - 30	5 YR 2/2	LiC	-	-
- 2	30 - 60	5 GY 4/1	HC	-	-
- 3	60 -120	5 GY 4/2	HC	-	-
L 91 - 1	0 - 30	7.5 YR	HC	7.5	5.2
- 2	30 - 60	7.5 YR	HC	7.3	9.7
- 3	60 -120	7.5 GY 3/1	HC	7.4	10.6
L 92 - 1	0 - 30	7.5 YR 3/1	HC	7.5	13.1
- 2	30 - 60	7.5 YR 3/1	HC	7.3	13.3
- 3	60 -120	7.5 YR 3/1	HC	7.6	7.9
L 93 - 1	0 - 25	7.5 YR 3/1	HC	-	7.4
- 2	25 - 50	7.5 YR 3/1	HC	7.1	8.0
- 3	50 -100	7.5 YR 3/1	HC	7.35	9.3
L 94 - 1	0 - 25	7.5 YR 3/1	HC	7.4	10.7
- 2	25 - 50	7.5 YR 3/1	HC	7.5	6.8
- 3	50 -100	7.5 YR 3/1	HC	7.4	4.7
L 95 - 1	0 - 25	7.5 YR 3/1	HC	7.4	14.3
- 2	25 - 50	7.5 YR 3/1	HC	7.6	12.5
- 3	50 -100	7.5 GY 3/1	HC	7.3	6.0
L 96 - 1	0 - 30	7.5 YR 3/1	HC	7.3	15.1
- 2	30 - 60	7.5 YR 3/1	HC	7.4	13.2
- 3	60 -120	7.5 GY 3/1	HC	7.2	11.0
L 97 - 1	0 - 30	7.5 YR 3/1	HC	-	-
- 2	30 - 60	7.5 YR 3/1	HC	-	-
- 3	60 -120	7.5 YR 3/1	HC	-	-
L 98 - 1	0 - 30	7.5 YR 3/1	HC	-	-
- 2	30 - 60	7.5 YR 3/1	HC	-	-
- 3	60 -120	7.5 YR 3/1	HC	-	-
L 99 - 1	0 - 30	5 YR	HC	7.4	12.9
- 2	30 - 60	5 YR	HC	7.3	9.8
- 3	60 -120	5 BG 3/1	HC	7.4	10.2

- continued -

FIELD TEST RESULTS OF SOIL

(Dryland)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
L 100 - 1	0 - 25	5 YR	HC	-	-
- 2	25 - 50	5 BG 3/1	HC	-	-
- 3	50 -100	5 BG 3/1	HC	-	-
L 101 - 1	0 - 25	5 YR	HC	7.4	40.4
- 2	25 - 50	5 YR	HC	7.4	50.0
- 3	50 -100	5 BG 3/1	HC	7.45	32.6
- 4	100 -200	5 BG 3/1	HC	-	-
L 102 - 1	0 - 25	5 YR 3/1	HC	7.75	15.6
- 2	25 - 50	5 GY 3/1	HC	7.65	17.2
- 3	50 -100	5 GY 3/1	HC	7.45	34.7
- 4	100 -200	5 GY 3/1	HC	-	-
L 103 - 1	0 - 30	5 YR	HC	-	-
- 2	30 - 60	5 BG 3/1	HC	-	-
- 3	60 -120	5 BG 3/1	HC	-	-
- 4	120 -200	5 BG 3/1	HC	-	-
L 104 - 1	0 - 25	5 YR	HC	7.45	41.7
- 2	25 - 50	5 BG 3/1	HC	7.6	16.7
- 3	50 -100	5 BG 3/1	HC	7.45	33.3
L 105 - 1	0 - 60	5 YR	LiC	-	-
- 2	60 -120	5 BG 3/1	HC	-	-
- 3	120 -200	5 BG 3/1	HC	-	-
L 106 - 1	0 - 25	5 YR	HC	7.45	51.5
- 2	25 - 50	5 BG 3/1	HC	7.5	39.2
- 3	50 -100	5 BG 3/1	HC	7.55	27.5
L 107 - 1	0 - 25	5 YR	HC	7.55	12.8
- 2	25 - 50	5 YR	HC	7.5	43.7
- 3	50 -100	5 BG 3/1	HC	7.5	44.0
L 108 - 1	0 - 25	5 YR	HC	7.5	25.6
- 2	25 - 50	5 YR	HC	7.5	18.7
- 3	50 -100	5 BG 3/1	HC	7.5	7.5
L 109 - 1	0 - 25	5 YR	HC	-	-
- 2	25 - 50	5 YR	HC	-	-
- 3	50 -100	5 BG 3/1	HC	-	-

- continued -

FIELD TEST RESULTS OF SOIL

(Dryland)

PIT NO. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
L 110 - 1	0 - 25	2.5 Y 5/1	HC	-	-
- 2	25 - 50	2.5 Y 5/1	HC	-	-
- 3	50 -100	2.5 GY 3/1	HC	-	-
L 111 - 1	0 - 25	2.5 Y 5/1	HC	-	-
- 2	25 - 50	2.5 Y 5/1	HC	-	-
- 3	50 -120	2.5 GY 3/1	HC	-	-
- 4	120 -200	10 GY 3/1	HC	-	-
L 112 - 1	0 - 30	5 YR 3/1	HC	7.6	5.4
- 2	30 - 60	2.5 Y 3/2	HC	7.7	7.8
- 3	60 -120	N 4/0	HC	-	-
- 4	120 -200	7.5 BG 3/1	HC	-	-
L 113 - 1	0 - 30	5 YR 3/1	HC	-	-
- 2	30 - 60	10 G 3/1	HC	-	-
- 3	60 -120	10 G 3/1	HC	-	-
L 114 - 1	0 - 30	5 YR	HC	-	-
- 2	30 - 60	7.5 BG 3/1	HC	-	-
- 3	60 -120	5 BG 3/2	HC	-	-
L 115 - 1	0 - 40	5 YR	HC	-	-
- 2	40 -120	5 BG 3/1	HC	-	-
- 3	120 -150	5 BG 3/1	HC	-	-
L 116 - 1	0 - 25	5 YR	HC	-	-
- 2	25 - 50	7.5 BG 3/1	HC	-	-
- 3	50 -100	7.5 BG 3/1	HC	-	-
L 117 - 1	0 - 30	5 YR 3/2	HC	7.0	6.7
- 2	30 - 60	10 YR 4/1	HC	7.1	8.2
- 3	60 -120	10 GY 3/1	HC	-	-
L 118 - 1	0 - 30	5 YR 3/2	HC	-	-
- 2	30 - 60	10 YR 4/1	HC	-	-
- 3	60 -120	10 GY 3/1	HC	-	-
L 119 - 1	0 - 30	5 YR 3/2	HC	-	-
- 2	30 - 60	10 YR 4/1	HC	-	-
- 3	60 -120	10 GY 3/1	HC	-	-
L 120 - 1	0 - 30	5 YR 3/1	HC	-	-
- 2	30 - 60	2.5 Y 3/2	HC	-	-
- 3	60 -120	N 4/0	HC	-	-

- continued -

FIELD TEST RESULTS OF SOIL

(Dryland)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
L 121 - 1	0 - 30	7.5 YR 3/1	HC	7.4	10.2
- 2	30 - 60	7.5 YR 3/1	HC	7.25	12.8
- 3	60 -100	7.5 YR 4/2	HC	-	-
- 4	100 -150	7.5 YR 3/2	HC	-	-
L 122 - 1	0 - 30	2.5 YR 3/2	LiC	7.4	5.9
- 2	30 - 60	3.5 YR 3/2	HC	7.5	6.7
- 3	60 -120	10 YR 3/2	HC	7.7	8.2
L 123 - 1	0 - 25	2.5 YR 3/2	LiC	-	-
- 2	25 - 50	2.5 YR 3/2	HC	-	-
- 3	50 -100	2.5 YR 3/2	HC	-	-
L 124 - 1	0 - 30	7.5 YR 3/1	HC	7.65	32.6
- 2	30 - 60	5 YR 3/2	HC	7.5	34.3
- 3	60 -120	5 YR 3/2	HC	7.6	38.9
L 125 - 1	0 - 30	7.5 YR 3/1	LiC	-	-
- 2	30 - 60	7.5 YR 3/1	HC	-	-
- 3	60 -120	7.5 YR 4/2	HC	-	-
L 126 - 1	0 - 30	2.5 YR 3/2	HC	-	-
- 2	30 - 60	2.5 YR 3/2	HC	-	-
- 3	60 -120	7.5 YR 4/2	HC	-	-
L 127 - 1	0 - 30	2.5 YR 4/1	HC	7.5	7.9
- 2	30 - 60	2.5 YR 4/1	HC	7.7	9.2
- 3	60 -120	5 YR 3/2	HC	-	-
L 128 - 1	0 - 30	2.5 YR 3/2	HC	-	-
- 2	30 - 60	2.5 YR 3/2	HC	-	-
- 3	60 -120	7.5 YR 3/2	HC	-	-
L 129 - 1	0 - 30	7.5 YR 2/3	SiCL	-	-
- 2	30 - 60	7.5 YR 3/4	SiC	-	-
- 3	60 -120	7.5 YR 4/3	SiC	-	-
L 130 - 1	0 - 30	7.5 YR 2/3	SiCL	7.2	6.6
- 2	30 - 60	7.5 YR 3/4	SiC	7.4	8.1
- 3	60 -120	7.5 YR 4/3	SiC	7.6	9.8
L 131 - 1	0 - 30	10 YR 4/1	HC	-	-
- 2	30 - 60	10 YR 4/1	HC	-	-
- 3	60 -120	5 YR 3/1	HC	-	-

- continued -

FIELD TEST RESULTS OF SOIL

(Dryland)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
L 132 - 1	0 - 10	5 YR 3/1	HC	7.15	9.3
- 2	10 - 50	5 YR 3/1	HC	-	-
- 3	50 - 90	5 YR 3/2	HC	-	-
- 4	90 -200	5 YR 3/2	HC	-	-
L 133 - 1	0 - 30	5 YR	HC	7.45	39.4
- 2	30 - 60	5 YR	HC	7.35	40.6
- 3	60 -120	5 YR	HC	7.25	42.1
L 134 - 1	0 - 30	5 YR 3/1	HC	7.55	19.4
- 2	30 - 60	5 YR 3/1	HC	7.5	25.9
- 3	60 -120	5 YR 3/2	HC	7.45	13.8
L 135 - 1	0 - 30	5 YR	HC	-	-
- 2	30 - 60	5 YR	HC	-	-
- 3	60 -120	5 YR	HC	-	-
L 136 - 1	0 - 30	5 YR 3/1	HC	7.6	7.9
- 2	30 - 60	5 YR 3/1	HC	7.4	9.3
- 3	60 -120	5 YR 3/2	HC	-	-
L 137 - 1	0 - 30	5 YR 3/1	HC	-	-
- 2	30 - 60	5 YR 3/1	HC	-	-
- 3	60 -120	5 YR 3/2	HC	-	-
L 138 - 1	0 - 30	5 YR 3/1	HC	-	-
- 2	30 - 60	5 YR 3/1	HC	-	-
- 3	60 -120	5 YR 3/2	HC	-	-
L 319 - 1	0 - 30	5 YR 3/1	HC	-	-
- 2	30 - 60	5 YR 3/1	HC	-	-
- 3	60 -120	5 YR 3/2	HC	-	-
L 140 - 1	0 - 30	7.5 YR 4/2	HC	7.6	20.5
- 2	30 - 60	5 YR 5/1	HC	7.65	7.1
- 3	60 -120	2.5 GY 3/1	HC	7.25	10.9
- 4	120 -200	2.5 GY	HC	-	-
L 141 - 1	0 - 30	10 YR 3/2	HC	-	-
- 2	30 - 60	7.5 GY	HC	-	-
- 3	60 -120	5 YR 3/1	HC	-	-
L 142 - 1	0 - 30	10 YR 3/2	HC	-	-
- 2	30 - 60	7.5 GY	HC	-	-
- 3	60 -120	5 YR 3/1	HC	-	-

- continued -

FIELD TEST RESULTS OF SOIL

(Dryland)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
L 143 - 1	0 - 30	5 YR 3/1	HC	-	-
- 2	30 - 60	5 YR 3/1	HC	-	-
- 3	60 -120	5 YR 3/2	HC	-	-
L 144 - 1	0 - 30	5 YR 3/1	HC	-	-
- 2	30 - 60	5 YR 3/1	HC	-	-
- 3	60 -120	5 YR 3/2	HC	-	-
L 145 - 1	0 - 30	7.5 YR	SiCL	7.55	18.35
- 2	30 - 60	7.5 YR	L	7.25	19.42
- 3	60 -120	7.5 YR	SiCL	7.15	20.7
- 4	120 -200	7.5 YR	HC	-	-
L 146 - 1	0 - 30	7.5 YR 3/3	SiC	-	-
- 2	30 - 60	7.5 YR 3/3	SiC	-	-
- 3	60 -120	7.5 YR 3/2	LiC	-	-
L 147 - 1	0 - 30	7.5 YR 3/3	SiC	-	-
- 2	30 - 60	7.5 YR 3/3	SiC	-	-
- 3	60 -120	7.5 YR 3/2	LiC	-	-
L 148 - 1	0 - 30	7.5 YR 3/1	LiC	7.7	39.4
- 2	30 - 60	7.5 YR 3/1	HC	7.4	20.6
- 3	60 -120	7.5 YR 4/2	HC	7.55	37.4
L 149 - 1	0 - 30	7.5 YR 3/1	LiC	-	-
- 2	30 - 60	7.5 YR 3/1	HC	-	-
- 3	60 -120	7.5 YR 4/2	HC	-	-
L 150 - 1	0 - 30	7.5 YR 3/1	LiC	-	-
- 2	30 - 60	7.5 YR 3/1	HC	-	-
- 3	60 -120	7.5 YR 4/2	HC	-	-
L 151 - 1	0 - 30	5 YR 4/2	HC	7.3	12.1
- 2	30 - 60	10 YR 3/2	HC	7.5	11.5
- 3	60 -120	10 YR 2/2	HC	7.4	10.5
L 152 - 1	0 - 30	10 YR 3/2	HC	-	-
- 2	30 - 60	10 YR 3/2	HC	-	-
- 3	60 -120	N 3/0	HC	-	-
L 153 - 1	0 - 30	10 YR 2/3	HC	7.3	11.8
- 2	30 - 60	10 YR 2/3	HC	7.1	9.7
- 3	60 -120	2.5 GY 3/2	HC	7.2	8.4
- 4	120 -200	2.5 GY 3/1	HC	-	-

- continued -

FIELD TEST RESULTS OF SOIL

(Dryland)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
L 154 - 1	0 - 30	10 YR 3/2	HC	7.4	12.1
- 2	30 - 60	10 YR 3/2	HC	7.4	10.3
- 3	60 -120	2.5 GY 3/2	HC	7.6	9.6
- 4	120 -200	2.5 GY 3/2	HC	-	-
L 155 - 1	0 - 30	10 YR 3/2	HC	7.3	9.2
- 2	30 - 60	10 YR 3/2	HC	7.4	7.7
- 3	60 -120	2.5 GY 3/2	HC	7.45	6.8
- 4	120 -200	2.5 GY 3/2	HC	-	-
L 156 - 1	0 - 30	10 YR 3/2	HC	-	-
- 2	30 - 70	10 YR 3/2	HC	-	-
- 3	70 -120	2.5 GY 3/2	HC	-	-
- 4	120 -200	2.5 GY 3/2	HC	-	-
L 157 - 1	0 - 30	10 YR 2/3	HC	7.4	10.8
- 2	30 - 60	10 YR 2/3	HC	7.4	9.7
- 3	60 -120	10 YR 2/3	HC	7.5	7.2
- 4	120 -200	10 Y 4/1	HC	-	-
L 158 - 1	0 - 30	10 YR 2/3	HC	-	-
- 2	30 - 60	10 YR 2/3	HC	-	-
- 3	60 -170	10 YR 2/3	HC	-	-
- 4	170 -240	10 Y 4/1	HC	-	-
L 159 - 1	0 - 30	5 YR 2/2	HC	7.3	11.2
- 2	30 - 60	7.5 YR 3/2	HC	7.6	10.3
- 3	60 -120	5 YR 3/2	HC	7.5	9.4
- 4	120 -200	10 Y 3/1	HC	-	-
L 160 - 1	0 - 30	10 YR 2/3	HC	-	-
- 2	30 - 60	10 YR 2/3	HC	-	-
- 3	60 -120	10 YR 2/3	HC	-	-
L 161 - 1	0 - 30	10 YR 2/3	HC	7.3	7.5
- 2	30 - 60	10 YR 2/3	HC	7.45	11.1
- 3	60 -120	10 YR 2/3	HC	7.4	13.2
L 162 - 1	0 - 30	10 YR 2/3	HC	-	-
- 2	30 - 60	10 YR 2/3	HC	-	-
- 3	60 -120	10 YR 2/3	HC	-	-
L 163 - 1	0 - 30	10 YR 3/1	HC	-	-
- 2	30 - 80	7.5 Y 3/2	HC	-	-
- 3	80 -120	7.5 Y 3/1	LiC	-	-

- continued -

FIELD TEST RESULTS OF SOIL

(Dryland)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
L 164 - 1	0 - 30	10 YR 3/1	HC	7.6	13.1
- 2	30 - 60	7.5 GY 3/1	HC	7.4	8.2
- 3	60 -120	7.5 GY 3/1	HC	7.25	4.4
- 4	120 -200	7.5 GY 3/1	HC	-	
L 165 - 1	0 - 30	10 YR 3/1	HC	-	-
- 2	30 - 60	7.5 GY 3/1	HC	-	-
- 3	60 -120	7.5 GY 3/1	HC	-	-
L 166 - 1	0 - 50	10 YR 3/1	LiC	-	-
- 2	50 -100	7.5 GY 3/1	LiC	-	-
- 3	100 -120	7.5 GY 3/1	HC	-	-
L 167 - 1	0 - 30	5 YR 2/2	HC	7.7	8.0
- 2	30 - 60	7.5 YR 3/2	HC	7.3	5.9
- 3	60 -120	5 YR 3/2	HC	7.8	8.2
L 168 - 1	0 - 30	10 YR 3/1	HC	-	-
- 2	30 - 60	7.5 GY 3/1	HC	-	-
- 3	60 -120	7.5 GY 3/1	HC	-	-
L 169 - 1	0 - 30	5 YR 3/2	SiC	7.15	9.7
- 2	30 - 60	7.5 GY 3/1	SiC	7.0	6.8
- 3	60 -120	7.5 GY 3/1	LiC	-	-
L 170 - 1	0 - 30	5 YR 3/2	SiC	7.05	55.5
- 2	30 - 60	7.5 GY 3/1	SiC	7.15	49.7
- 3	60 -120	7.5 GY 3/1	LiC	7.25	48.5
L 171 - 1	0 - 30			7.3	9.5
- 2	30 - 60			7.6	5.8
- 3	60 -120			-	-
L 172 - 1	0 - 30	5 YR 4/1	HC	7.5	6.8
- 2	30 - 60	7.5 GY 4/1	HC	7.55	8.4
- 3	60 -120	7.5 YR	HC	-	-
- 4	120 -220	10 Y 4/1	HC	-	-

FIELD TEST RESULTS OF SOIL

(Lake)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
M 1 - 1	0 - 15	10 G 3/1	SiC	7.35	17.0
- 2	15 - 50	10 G 4/1	SiCL	7.4	10.45
- 3	50 -100	10 G 4/1	SiC	7.3	12.7
- 4	100 -150	5 GY 4/1	HC	-	-
M 2 - 1	0 - 25	10 G 3/1	SiCL	7.4	20.8
- 2	25 - 50	10 G 4/1	SiC	8.05	6.75
- 3	50 - 80	10 G 4/1	SiC	7.8	11.8
M 3 - 1	0 - 15	10 G 3/1	SiCL	7.55	8.2
- 2	15 - 58	10 G 4/1	SiC	7.55	4.52
- 3	58 - 73	10 G 4/1	SiC	7.2	25.2
M 4 - 1	0 - 30	10 G 3.5/1	LS	7.4	5.8
- 2	30 -100	10 G 3.5/1	HC	7.6	4.96
- 3	100 -115	10 G 4/1	S	7.1	13.3
- 4	115 -140	10 G 4/1	SiC	-	-
M 5 - 1	0 - 30	10 G 3.5/1	SiC	7.25	19.4
- 2	30 - 67	10 G 4/1	SiC	7.95	11.9
- 3	67 -120	10 G 4/1	SiC	7.9	14.6
- 4	120 -170	10 G 4/1	SiC	-	-
- 5	170 -195	10 G 4/1	SiCL	-	-
M 6 - 1	0 - 30	10 G 3/1	SiC	7.6	15.7
- 2	30 - 70	10 G 3/1	SiC	7.65	8.94
- 3	70 -120	10 G 4/1	SiCL	7.8	14.54
- 4	120 -135	10 G 3.5/1	SiCL	-	-
- 5	135 -150	10 G 3.5/1	HC	-	-
M 7 - 1	0 - 30	5 GY 4/1	SCL	7.25	10.95
- 2	30 - 60	7.5 Y 4/1	SC	7.45	13.1
- 3	60 -120	10 Y 5/1	HC	7.55	15.5
- 4	120 -150	10 Y 5/1	HC	7.5	19.8
M 8 - 1	0 - 30	5 GY 4/1	SCL	7.5	14.55
- 2	30 - 60	7.5 Y 4/1	HC	7.45	25.6
- 3	60 -120	10 Y 5/1	HC	7.5	12.3
- 4	120 -150	10 Y 5/1	HC	7.65	12.5
M 9 - 1	0 - 30	7.5 GY 4/1	SCL	7.25	36.5
- 2	30 - 60	7.5 GY 4/1	HC	7.4	19.0
- 3	60 -120	5 Y 4/1	HC	7.5	16.2

- continued -

FIELD TEST RESULTS OF SOIL

(Lake)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
M 10 - 1	0 - 30	5 G 4/0	SiCL	7.5	12.0
- 2	30 - 60	5 G 4/0	SiCL	7.15	13.4
- 3	60 -120	N 4/0	HC	7.7	5.0
M 11 - 1	0 - 30	5 GY 4/1	SiCL	7.8	9.8
- 2	30 - 80	5 GY 4/1	SiC	7.4	10.19
- 3	80 -130	10 GY 3/1	SiC	7.75	21.7
M 12 - 1	0 - 30	10 Y 3/1	L	6.9	12.1
- 2	30 - 60	10 GY 4/1	CL	7.4	7.5
- 3	60 -120	10 GY 4.5/1	SiCL	7.15	40.8
M 13 - 1	0 - 50	7.5 GY 4/1	CL	7.05	10.3
- 2	50 -110	10 GY 4/1	LiC	7.4	6.13
- 3	110 -130	5 G 2/1	HC	7.9	12.2
- 4	130 -150	5 G 4/1	SiC	7.4	6.13
M 14 - 1	0 - 15	5 G 5/1	SCL	7.05	18.85
- 2	15 - 65	5 G 4/1	SiC	7.15	17.9
- 3	65 - 90	5 G 3/1	SiC	7.6	3.1
- 4	90 -120	10 G 4/1	SiC	7.6	10.0
M 15 - 1	0 - 30	2.5 GY 4/1	CL	6.85	29.1
- 2	30 - 50	10 GY 4.5/1	SCL	7.05	12.6
- 3	50 - 85	10 GY 5/1	HC	7.6	10.8
- 4	85 -110	5 G 2/1	HC	7.6	8.0
M 16 - 1	0 - 40	10 G 3/1	SiCL	7.35	1.92
- 2	40 -125	10 G 3/1	SiCL	7.65	3.99
- 3	125 -150	5 G 4/1	SiC	7.75	6.9
M 17 - 1	0 - 25	10 G 4/1	HC	7.05	11.2
- 2	25 - 70	5 G 4/1	SL	7.2	14.6
- 3	70 -130	5 G 3/1	SC	7.8	8.5
M 18 - 1	0 - 50	5 GY 3/1	L	7.3	31.5
- 2	50 -110	7.5 GY 4/1	SL	7.4	15.5
- 3	110 -135	7.5 GY 3/1	HC	-	-
- 4	135 -160	10 GB 3/1	LS	7.4	13.6
M 19 - 1	0 - 30	2.5 GY 4/1	SL	7.4	13.95
- 2	30 - 50	10 GY 4/1	SiL	7.4	18.15
- 3	50 - 80	2.5 GY 3/1	CL	7.1	12.6
- 4	80 -130	5 G 3/1	HC	-	-

- continued -

FIELD TEST RESULTS OF SOIL

(Lake)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
M 20 - 1	0 - 30	5 G 4/1	SCL	7.1	21.8
- 2	30 - 60	5 G 4/1	SiC	7.4	9.0
- 3	60 - 85	5 G 4/1	SiC	7.4	4.0
- 4	85 -130	5 G 3/1	HC	7.0	3.0
M 21 - 1	0 - 38	5 G 4/1	SCL	-	-
- 2	38 - 60	5 G 4/1	SC	7.2	8.5
- 3	60 -100	10 G 4/1	CL	7.3	6.0
- 4	100 -150	5 G 3/1	SiCL	7.6	4.2
M 22 - 1	0 - 35	5 G 4/1	CL	-	-
- 2	35 - 60	5 G 4/1	CL	-	-
- 3	60 -120	5 G 3/1	CL	7.2	17.6
- 4	120 -140	5 G 3/1	SiC	7.4	6.0
M 23 - 1	0 - 50	7.5 Y 4/1	SiC	7.5	3.8
- 2	50 -100	10 GY 4/1	SCL	7.2	3.8
- 3	100 -112	5 G 4/1	SiCL	7.4	26.0
- 4	112 -139	5 G 3/1	SCL	7.5	12.65
- 5	139 -170	5 G 4/1	SL	7.2	285
M 24 - 1	0 - 25	10 G 4/1	SL	-	-
- 2	25 - 70	10 G 4/1	SCL	-	-
- 3	70 - 81	10 G 4/1	SL	-	-
- 4	81 -126	5 G 4/1	SL	7.2	9.0
M 25 - 1	0 - 35	5 G 4/1	LS	-	-
- 2	35 - 84	10 G 4/1	SiC	7.3	11.5
- 3	84 -100	10 G 4/1	SL	7.6	6.5
- 4	100 -160	5 G 4.5/1	S	7.5	21.0
M 26 - 1	0 - 25	5 G 4/1	SiCL	-	-
- 2	25 - 50	5 G 4/1	SiCL	7.5	10.5
- 3	50 - 70	5 G 4.5/1	SiC	7.7	12.0
- 4	70 -128	5 G 4/1	SiC	-	-
- 5	128 -135	5 G 3/1	S	7.7	18.5
M 27 - 1	0 - 23	10 G 4/1	SiCL	-	-
- 2	23 - 75	10 G 4/1	SiC	7.6	15.0
- 3	75 -132	5 G 3/1	L	7.25	25.2
- 4	132 -170	5 G 2.5/1	SiC	7.15	25.0

- continued -

FIELD TEST RESULTS OF SOIL

(Lake)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
M 28 - 1	0 - 40	10 G 3.5/1	SL	6.95	19.42
- 2	40 - 60	10 G 4/1	L	7.05	17.21
- 3	60 -125	10 G 4/1	SiC	7.25	16.68
- 4	125 -200	10 G 2.5/1	SiC	7.75	11.63
M 29 - 1	0 - 40	10 G 4/1	L	7.85	16.83
- 2	40 - 75	10 G 4/1	SiC	7.45	19.28
- 3	75 -125	5 G 3/1	HC	7.25	29.3
- 4	125 -200	10 G 3.5/1	SiC	7.35	14.3
M 30 - 1	0 - 22	5 G 4/1	SiCL	7.55	22.2
- 2	22 - 75	10 G 4/1	SiC	7.55	65.0
- 3	75 - 92	10 G 3/1	SiC	6.65	34.2
- 4	92 -160	10 G 3/1	L	6.85	16.41
- 5	160 -165	10 G 3/1	SL	7.05	26.9
M 31 - 1	0 - 30	10 G 4/1	SiC	7.8	5.4
- 2	30 - 72	10 G 3/4	SiC	7.6	13.5
- 3	72 - 90	10 G 4/1	SiC	7.6	20.7
- 4	90 -160	5 GY 3/1	SiC	-	-
M 32 - 1	0 - 50	5 G 4/1	SCL	7.6	18.24
- 2	50 - 95	10 G 4/1	SCL	7.6	35.25
- 3	95 -125	10 G 3/1	SCL	7.7	32.0
- 4	125 -142	10 G 3/1	HC	7.85	14.24
- 5	142 -180	10 G 3/1	SiCL	6.95	25.8
M 33 - 1	0 - 30	10 G 3/1	SiCL	7.8	12.0
- 2	30 - 95	10 G 4/1	SiC	7.7	7.4
- 3	95 -130	10 G 4/1	SiC	7.85	14.7
- 4	130 -200	10 G 2/1	SiC	-	-
M 34 - 1	0 - 50	5 G 4/1	SiCL	7.8	22.7
- 2	50 - 68	10 G 4/1	SiC	7.9	13.2
- 3	68 -110	5 G 3.5/1	HC	7.7	11.4
M 35 - 1	0 - 30	10 G 4/1	SiCL	7.4	12.9
- 2	30 - 52	10 G 4/1	SiCL	7.7	7.8
- 3	52 - 80	5 BG 3.5/1	HC	7.45	5.91
M 36 - 1	0 - 30	10 G 4/1	SiCL	7.65	14.9
- 2	30 - 78	10 G 3/1	SiC	7.4	7.8
- 3	78 -100	7.5 GY 4/1	HC	7.7	16.4

- continued -

FIELD TEST RESULTS OF SOIL
(Lake)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
M 37 - 1	0 - 25	7.5 GY 4/1	SiCL	7.4	11.0
- 2	25 - 51	10 GY 4/1	SiC	7.5	12.1
- 3	51 -130	10 G 3/1	HC	7.4	14.2
M 38 - 1	0 - 30	10 GY 4/1	SiC	7.7	13.3
- 2	30 - 80	10 GY 4/1	SiC	7.5	12.1
- 3	80 -120	10 G 4/1	HC	7.5	11.8
M 39 - 1	0 - 25	10 GY 4/1	SiC	7.6	10.9
- 2	25 - 80	10 GY 4/1	SiC	7.55	12.4
- 3	80 -125	10 GY 4/1	SiC	7.65	22.5
- 4	125 -150	5 G 4/1	HC	-	-
M 40 - 1	0 - 35	10 G 3/1	SiCL	7.45	10.45
- 2	35 - 53	5 G 4/1	SiC	7.2	7.5
- 3	53 -115	5 G 4/1	SiC	7.1	12.9
- 4	115 -150	10 G 4/1	SiC	-	-
M 41 - 1	0 - 38	5 G 3/1	SiCL	7.7	7.35
- 2	38 - 85	5 G 4/1	SiC	7.6	8.7
- 3	85 -100	5 G 2.5/1	HC	7.6	5.7
M 42 - 1	0 - 40	5 G 4/1	SiCL	7.75	6.38
- 2	40 - 60	10 G 4/1	SiC	7.8	22.5
- 3	60 - 80	10 G 3/1	HC	7.75	3.52
M 43 - 1	0 - 30	5 G 4/1	SiCL	7.2	14.0
- 2	30 - 60	5 G 4/1	SiC	7.8	11.49
- 3	60 -100			8.0	4.0
M 44 - 1	0 - 45	5 G 3/1	SiCL	7.8	21.4
- 2	45 - 75	5 G 4/1	SiC	7.6	19.4
- 3	75 - 85	5 G 2.5/1	HC	7.4	5.05
M 45 - 1	0 - 30	10 G 3/1	SiCL	7.4	11.2
- 2	30 - 75	10 G 3/1	SiC	7.6	18
- 3	75 -105	10 G 3.5/1	HC	7.2	7.8
M 46 - 1	0 - 35	5 G 4/1	SiCL	7.3	5.5
- 2	35 - 75	5 G 4/1	SiC	7.8	7.6
- 3	75 -100	5 G 4/1	HC	7.8	17.6
M 47 - 1	0 - 58	5 G 5/1	SiCL	7.3	32.4
- 2	58 - 81	10 G 4/1	SiC	7.95	7.33
- 3	81 -105	10 G 3/1	SiC	7.7	3.8

- continued -

FIELD TEST RESULTS OF SOIL

(Lake)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
M 48 - 1	0 - 25	10 G 3/1	SiCL	7.3	8.96
- 2	25 - 75	5 G 4/1	SiC	7.6	19.8
- 3	75 -105	5 G 2.5/1	SiC	7.7	4.77
M 49 - 1	0 - 30	2.5 GY 4/1	SiCL	7.6	7.57
- 2	30 - 80	10 GY 4/1	SiC	7.4	7.9
- 3	80 -100	10 G 2.5/1	SiC	7.6	8.2
M 50 - 1	0 - 30	5 GY 4/1	SiCL	7.25	7.3
- 2	30 - 75	7.5 GY 4/1	SiC	7.65	3.8
- 3	75 -125	5 G 3.5/1	HC	7.4	7.1
M 51 - 1	0 - 50	10 GY 4/1	SiCL	8.0	3.53
- 2	50 - 90	10 GY 4/1	SiC	7.8	8.81
- 3	90 -100	10 G 3/1	SiC	7.7	10.4
M 52 - 1	0 - 40	10 G 4/1	SiCL	7.7	9.15
- 2	40 - 85	10 G 4/1	SiC	7.5	23.0
- 3	85 -100	10 G 3/1	SiC	7.7	4.95
M 53 - 1	0 - 25	5 G 4/1	SiCL	7.8	10.8
- 2	25 - 75	5 G 4/1	SiC	7.7	8.78
- 3	75 -100	10 G 3/1	SiC	7.6	6.9
M 54 - 1	0 - 40	10 G 3/1	SiCL	7.6	10.1
- 2	40 - 85	5 G 4/1	SiC	7.85	11.89
- 3	85 -100	5 G 2.5/1	HC	7.95	12.91
M 55 - 1	0 - 45	10 G 4/1	SiCL	7.1	11.9
- 2	45 - 80	10 G 4/1	SiC	7.3	6.1
- 3	80 -120	10 G 4/1	HC	7.75	2.6
M 56 - 1	0 - 30	10 G 4/1	SiC	7.2	2.6
- 2	30 - 75	10 G 4/1	SiC	7.6	2.75
- 3	75 -100	10 G 3/1	SiC	7.7	3.8
M 57 - 1	0 - 35	10 G 4/1	SiCL	7.5	10.6
- 2	35 - 70	10 G 4/1	SiC	7.4	9.5
- 3	70 -105	5 G 3/1	HC	7.85	8.11
M 58 - 1	0 - 45	7.5 GY 4/1	SiCL	7.75	3.92
- 2	45 - 80	7.5 GY 4/1	SiC	7.85	7.97
- 3	80 -100	5 G 3/1	HC	7.95	10.5

- continued -

FIELD TEST RESULTS OF SOIL
(Lake)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
M 59 - 1	0 - 35	10 G 4/1	SiCL	7.5	11.0
- 2	35 - 75	5 G 4.5/1	HC	7.2	7.9
- 3	75 -100	5 G 4.5/1	SiC	7.5	7.0
M 60 - 1	0 - 35	10 G 3.5/1	SiCL	7.5	9.1
- 2	35 - 80	10 G 3.5/1	HC	7.55	9.74
- 3	80 -110	10 G 4/1	SiC	7.85	10.4
M 61 - 1	0 - 30	10 G 4/1	SiCL	7.35	7.61
- 2	30 - 80	10 G 4/1	SiC	7.45	5.34
- 3	80 -100	5 G 3/1	HC	7.75	13.01
M 62 - 1	0 - 60	10 G 4/1	SiCL	7.85	13.9
- 2	60 - 75	5 G 4/1	SiC	7.95	8.65
- 3	75 -110	7.5 G 4/1	SiC	7.6	27.7
M 63 - 1	0 - 40	5 G 4/1	SiCL	7.5	13.1
- 2	40 - 75	5 G 4/1	SiC	7.5	9.2
- 3	75 -125	5 G 4/1	SiC	7.75	6.87
- 4	125 -140	5 G 4/1	S	-	-
M 64 - 1	0 -58	10 G 3.5/1	SiCL	7.7	16.2
- 2	58 - 85	5 G 4/1	SiC	7.85	19.5
- 3	85 -120	5 G 3/1	SiC	7.95	9.76
- 4	120 -150	5 G 3/1	HC	-	-
M 65 - 1	0 - 80	5 G 4/1	SiCL	7.7	18.9
- 2	80 -100	5 G 4/1	SiC	7.9	11.1
- 3	100 -120	5 G 3/1	HC	7.76	34.9
M 66 - 1	0 - 50	10 GY 4/1	SiCL	7.65	7.37
- 2	50 - 80	10 G 4/1	SiC	7.3	27.0
- 3	80 -125	5 G 3.5/1	HC	7.75	7.78
M 67 - 1	0 - 55	10 G 4/1	SiCL	7.8	4.87
- 2	55 - 70	10 G 3/1	HC	7.4	8.83
- 3	70 - 90	5 G 4/1	SiC	7.5	9.1
- 4	90 -110	5 G 3/1	HC	-	-
M 68 - 1	0 - 35	5 G 4/1	SiC	7.55	11.04
- 2	35 - 70	5 G 3/1	SiC	7.4	3.96
- 3	70 - 90	5 G 3/1	HC	7.5	15.9
- 4	90 -110	5 G 2.5/1	HC	-	-
- 5	110 -130	5 G 3/1	S	-	-

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FIELD TEST RESULTS OF SOIL
(Lake)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
M 69 - 1	0 - 50		SiCL	7.8	14.4
- 2	50 - 85		SiC	7.6	11.6
- 3	85 -110		SCL	7.5	7.8
- 4	110 -130		HC	-	-
M 70 - 1	0 - 35	5 G 4/1	SiC	7.0	42.0
- 2	35 - 90	5 G 4/1	SiC	7.95	10.21
- 3	90 - 95	5 G 3/1	HC	7.75	28.0
- 4	95 -110	5 G 3/1	S	-	-
M 71 - 1	0 - 35	5 G 4/1	SiCL	7.3	39.1
- 2	35 - 65	5 G 4/1	SiC	7.1	21.6
- 3	65 -130	5 G 4/1	SiC	7.8	17.26
- 4	130 -150	5 G 3.5/1	HC	-	-
M 72 - 1	0 - 45	10 G 4.5/1	SiCL	7.5	15.3
- 2	45 - 95	10 G 4/1	SiC	7.55	7.85
- 3	95 -120	10 G 4/1	SiC	7.4	6.3
M 73 - 1	0 - 60	5 G 4/1	SiCL	7.65	10.35
- 2	60 -110	5 G 4/1	SiC	7.85	6.96
- 3	110 -135	5 G 4/1	SiCL	7.6	5.8
- 4	135 -160	10 G 4/1	SiC	-	-
M 74 - 1	0 - 40	10 G 4/1	SiCL	7.5	48.7
- 2	40 - 60	5 G 4/1	SiC	7.65	23.1
- 3	60 -125	5 G 4/1	SiC	7.4	10.5
- 4	125 -150	10 G 3.5/1	SiC	-	-
M 75 - 1	0 - 65	5 G 4/1	SiCL	7.55	11.0
- 2	65 -128	10 G 4/1	SiC	7.6	13.5
- 3	128 -150	10 G 2.5/1	SiC	7.6	11.7
M 76 - 1	0 - 40	10 G 4/1	SiCL	7.7	0.7
- 2	40 - 65	5 G 4/1	SiC	7.4	2.97
- 3	65 -110	5 G 4/1	SiC	7.5	62.2
- 4	110 -140	5 G 3.5/1	SiC	-	-
- 5	140 -160	10 G 3/1	SiC	-	-
M 77 - 1	0 - 30	5 G 4/1	SiC	7.75	21.7
- 2	30 - 75	5 G 4/1	SiC	7.15	10.59
- 3	75 -120	5 G 4/1	SiCL	7.3	7.7
- 4	120 -140	5 G 4/1	SiC	-	-
- 5	140 -175	5 G 4/1	SiCL	-	-

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FIELD TEST RESULTS OF SOIL
(Lake)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
M 78 - 1	0 - 45	10 G 4/1	SiCL	7.5	6.4
- 2	45 - 60	5 G 4/1	SiC	7.65	4.69
- 3	60 -170	5 G 4/1	SiC	7.8	28.6
- 4	170 -200	10 GY 3/1	SiC	-	-
M 79 - 1	0 - 50	10 G 3.5/1	SiCL	7.55	24.4
- 2	50 -100	10 G 3.5/1	SiC	7.1	4.6
- 3	100 -140	5 G 4/1	SiC	7.3	9.43
- 4	140 -200	10 G 3.5/1	SiC	-	-
M 80 - 1	0 - 60	10 G 3.5/1	SiCL	7.35	12.1
- 2	60 -100	5 G 4/1	SiC	7.65	17.25
- 3	100 -135	10 G 3/1	SiC	7.6	21.0
M 81 - 1	0 - 55	5 G 4/1	SiCL	7.65	28.2
- 2	55 -110	5 G 4/1	SiC	7.5	18.1
- 3	110 -165	10 G 3/1	SiC	7.5	30.2
M 82 - 1	0 - 45	5 G 4/1	SiCL	7.3	15.3
- 2	45 -100	5 G 4/1	SiC	7.2	10.4
- 3	100 -140	5 G 4/1	SiC	7.0	27.9
- 4	140 -190	10 G 4/1	HC	-	-
M 83 - 1	0 - 40	10 G 4/1	SiC	7.5	9.8
- 2	40 - 60	5 G 4/1	SiC	7.2	27.3
- 3	60 -100	5 G 4/1	SiC	7.4	10.5
- 4	100 -145	10 G 3/1	SiC	-	-
M 84 - 1	0 - 60	5 G 4/1	SiCL	7.7	13.67
- 2	60 -107	5 G 4/1	SiC	7.7	7.6
- 3	107 -165	5 G 3.5/1	SiC	7.7	15.44
M 85 - 1	0 - 30	5 G 4/1	SiCL	7.4	17.0
- 2	30 - 60	5 G 4/1	SiC	7.7	30.7
- 3	60 -125	5 G 4/1	SiC	7.6	22.1
- 4	125 -170	7.5 Y 3/1	SiC	-	-
- 5	170 -180	5 G 3.5/1	HC	-	-
M 86 - 1	0 - 30	10 G 3.5/1	SiCL	7.5	7.9
- 2	30 - 60	10 G 3.5/1	SiC	7.75	13.1
- 3	60 -150	5 G 4/1	SiC	7.6	10.2
- 4	150 -185	10 G 3/1	HC	-	-

- continued -

FIELD TEST RESULTS OF SOIL

(Lake)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
M 87 - 1	0 - 50	5 G 7/1	SiCL	7.75	19.9
- 2	50 - 70	5 G 4/1	SiC	7.4	12.49
- 3	70 -105	10 G 2.5/1	HC	7.5	21.0
M 88 - 1	0 - 25	5 G 4/1	SiCL	7.6	23.4
- 2	25 - 50	5 G 4/1	SiC	7.5	38.7
- 3	50 -100	10 G 2.5/1	HC	7.6	56.5
M 89 - 1	0 - 37	5 G 4/1	SiCL	7.4	2.2
- 2	37 - 65	10 G 4/1	SiC	7.8	11.7
- 3	65 - 85	7.5 G 3/1	HC	7.75	4.67
M 90 - 1	0 - 35	10 G 4/1	SiCL	7.5	28.1
- 2	35 - 45	5 G 4/1	SiC	7.4	13.6
- 3	45 - 75	7.5 GY 3/1	HC	7.65	19.1
M 91 - 1	0 - 25	10 G 3.5/1	SiCL	7.45	22.4
- 2	25 - 85	10 G 3.5/1	SiC	7.75	15.1
- 3	85 -155	10 GY 3/1	LS	7.6	9.6
M 92 - 1	0 - 30	10 G 3.5/1	SiCL	7.5	38.1
- 2	30 - 75	10 G 4/1	SiC	7.6	35.7
- 3	75 -105	10 G 3/1	S	7.45	21.5
M 93 - 1	0 - 45	10 G 3.5/1	SiCL	7.4	38.1
- 2	45 - 85	10 G 4/1	SiC	7.65	32.2
- 3	85 - 105	10 G 3.5/1	S	7.45	9.22
M 94 - 1	0 - 20	10 G 3.5/1	SiCL	7.6	14.1
- 2	20 - 85	10 G 4/1	SiC	7.65	18.5
- 3	85 -120	10 G 3.5/1	S	7.5	15.1
M 95 - 1	0 - 60	10 G 3/1	SiC	7.75	6.3
- 2	60 -120	10 G 4/1	SiC	7.6	13.2
- 3	120 -185	10 G 3.5/1	HC	7.5	8.6
M 96 - 1	0 - 54	10 G 4/1	SiCL	7.8	10.6
- 2	54 -105	10 G 4/1	SiC	7.7	20.6
- 3	105 -130	10 G 3/1	S	7.3	10.85
M 97 - 1	0 - 30	5 G 3.5/1	SiCL	7.6	23.0
- 2	30 -100	10 G 4/1	SiC	7.35	26.6
- 3	100 -130	10 G 3.5/1	S	7.7	58.7

- continued -

FIELD TEST RESULTS OF SOIL

(Lake)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
M 98 - 1	0 - 30	10 G 3.5/1	SiCL	7.6	39.2
- 2	30 - 60	10 G 3.5/1	SiC	7.5	33.0
- 3	60 -120	10 G 4/1	SiC	7.5	21.7
M 99 - 1	0 - 60	5 G 3/1	SiCL	7.65	11.1
- 2	66 -120	10 G 4/1	SiC	7.7	33.7
- 3	120 -180	10 G 4/1	SiC	7.7	18.1
- 4	180 -205	10 G 3.5/1	SiC	-	-
M 100 - 1	0 - 30	5 G 3.5/1	SiCL	7.65	19.2
- 2	30 - 60	5 G 3.5/1	SiC	7.7	13.4
- 3	60 -120	10 G 4/1	SiC	7.75	7.3
- 4	120 -185	10 G 3/1	SiC	-	-
M 101 - 1	0 - 25	10 G 3.5/1	SiCL	7.65	7.1
- 2	25 - 73	10 G 4/1	SiC	7.5	21.6
- 3	73 -100	10 G 3.5/1	S	7.45	42.5
M 102 - 1	0 - 65	10 G 3.5/1	SiCL	7.65	19.5
- 2	65 - 80	10 G 4/1	SiC	7.65	13.0
- 3	80 - 95	10 G 3.5/1	S	7.8	8.8
M 103 - 1	0 - 35	5 G 4/1	SiCL	7.45	34.6
- 2	35 - 65	5 G 3.5/1	SiC	7.4	71.2
- 3	65 -115	5 G 3.5/1	LS	7.5	41.0
- 4	115 -155	5 G 4/1	SiC	-	-
M 104 - 1	0 - 30	7.5 YR 4/2	HC	7.8	9.66
- 2	30 - 60	10 YR 4/2	HC	7.55	52.8
- 3	60 -120	10 YR 4/1	HC	7.75	38.2
M 105 - 1	0 - 30	7.5 YR 4/2	HC	7.45	27.8
- 2	30 - 60	10 YR 4/2	HC	7.25	63.9
- 3	60 -120	10 YR 4/1	HC	7.55	65.5
M 106 - 1	0 - 50	10 G 3.5/1	SiCL	7.65	26.1
- 2	50 - 65	10 G 3.5/1	SiC	7.6	13.2
- 3	65 - 80	10 G 3/1	SiC	7.4	29.6
M 107 - 1	0 - 30	10 G 3/1	SiCL	7.4	11.3
- 2	30 - 76	10 G 3/1	SiC	7.85	7.6
- 3	76 -140	10 G 4/1	SiC	7.4	40.9
- 4	140 -175	5 G 4/1	SiC	-	-

- continued -

FIELD TEST RESULTS OF SOIL

(Lake)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
M 108 - 1	0 - 48	10 G 3.5/1	SiCL	7.55	42.4
- 2	48 - 80	10 G 4/1	SiC	7.75	31.7
- 3	80 - 90	5 G 3.5/1	SiC	7.55	23.5
M 109 - 1	0 - 35	10 GY 4/1	SiCL	7.8	12.2
- 2	35 - 55	10 G 4/1	SiC	7.45	17.1
- 3	55 - 75	10 G 3/1	SiC	7.6	8.3
M 110 - 1	0 - 58	10 GY 3.5/1	SiCL	7.0	9.1
- 2	58 - 85	10 G 4/1	SiC	7.5	0.1
- 3	85 -125	5 G 4/1	SiC	7.55	6.4
M 111 - 1	0 - 48	10 GY 4/1	SiCL	7.0	6.92
- 2	48 - 82	10 G 4/1	SiC	7.9	6.05
- 3	82 -100	10 G 3/1	SiC	7.75	3.42
M 112 - 1	0 - 25	5 G 3.5/1	SiCL	7.7	6.83
- 2	25 - 30	5 G 4/1	SiC	7.4	5.9
- 3	30 - 60	10 G 4/1	SiC	7.5	3.2
M 113 - 1	0 - 48	10 G 3.5/1	SiCL	7.7	19.7
- 2	48 - 80	10 G 4/1	SiC	8.05	2.86
- 3	80 - 95	10 G 3.5/1	SiC	7.8	22.0
M 114 - 1	0 - 60	5 G 4/1	SiC	7.4	22.1
- 2	60 - 75	5 G 4/1	SiC	7.1	12.7
- 3	75 -110	5 G 3.5/1	SiC	7.4	5.93
M 115 - 1	0 - 65	10 GY 4/1	SiCL	7.85	13.2
- 2	65 - 85	10 G 4/1	SiC	7.75	10.0
- 3	85 -130	5 G 3.5/1	SiC	7.55	6.4
M 116 - 1	0 - 50	10 G 3.5/1	SiC	7.7	9.56
- 2	50 - 85	10 G 3.5/1	SiC	8.0	9.05
- 3	85 -140	10 G 3.5/1	SiC	7.9	6.21
M 117 - 1	0 - 25	10 GY 4/1	SiC	7.45	9.38
- 2	25 - 45	5 G 4/1	SiC	7.85	5.37
- 3	45 -100	10 GY 5/1	S	7.7	9.01
M 118 - 1	0 - 30	7.5 GY 4/1	SiCL	7.4	45.1
- 2	30 - 65	7.5 GY 4/1	SiCL	7.1	7.53
- 3	65 -135	7.5 GY 4/1	SiC	7.0	11.98
- 4	135 -160	5 G 3/1	SiC	-	-

- continued -

FIELD TEST RESULTS OF SOIL
(Lake)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
M 119 - 1	0 - 30	5 G 4/1	SiCL	7.6	29.7
- 2	30 - 60	5 G 4/1	SiCL	7.95	6.78
- 3	60 -114	5 G 4/1	SiC	7.7	0.89
- 4	114 -135	10 G 3/1	LS	-	-
M 120 - 1	0 - 50	5 G 4/1	SiCL	7.55	11.6
- 2	50 -125	5 G 4/1	SiCL	7.6	12.3
- 3	125 -150	5 G 4/1	SiC	7.65	11.3
- 4	150 -205	5 G 3.5/1	SiC	-	-
M 121 - 1	0 - 55	5 G 4/1	SiCL	7.65	6.29
- 2	55 - 95	5 G 3.5/1	SiC	7.9	6.3
- 3	95 -175	10 G 3/1	HC	8.05	11.04
M 122 - 1	0 - 55	10 GY 3.5/1	SiCL	7.7	3.96
- 2	55 - 80	5 G 4/1	SiC	7.2	8.9
- 3	80 - 95	5 G 3.5/1	SiC	7.75	4.44
M 123 - 1	0 - 30	10 G 3/1	SiCL	7.45	10.87
- 2	30 - 60	10 G 3/1	SiC	7.9	25.6
- 3	60 -120	10 G 4/1	SiC	7.65	29.2
- 4	120 -185	10 G 4/1	SiC	-	-
- 5	185 -215	10 G 3.5/1	S	-	-
M 124 - 1	0 - 30	5 G 3/1	SiCL	-	-
- 2	30 - 80	5 G 3/1	SiC	7.6	13.1
- 3	80 -145	5 G 4/1	SiC	7.85	27.7
- 4	145 -175	10 G 3.5/1	S	-	-
M 125 - 1	0 - 50	5 G 3.5/1	SiC	7.75	18.3
- 2	50 -105	5 G 4/1	SiC	7.65	9.38
- 3	105 -140	10 G 4/1	SiC	7.15	23.8

FIELD TEST RESULTS OF SOIL

(Swamp)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
S 1 - 1	0 - 50	10 G 3.5/1	SiC	7.2	4.1
- 2	50 - 90	10 G 3.5/1	HC	7.3	3.2
- 3	90 -120	10 G 3.5/1	HC	7.6	3.7
S 2 - 1	0 - 44	10 G 3.5/1	SiCL	7.15	59.5
- 2	44 - 98	10 G 3.5/1	SiC	6.95	52.2
- 3	98 -150	10 G 3.5/1	CL	6.95	58.5
S 3 - 1	0 - 33	10 G 3.5/1	SiC	7.2	33.0
- 2	33 - 48	10 G 4/1	HC	7.1	16.0
- 3	48 -100	10 G 4/1	HC	7.3	3.7
S 4 - 1	0 - 30	10 GY 4/1	HC	7.55	39.2
- 2	30 - 60	10 GY 4/1	SiC	7.65	13.22
- 3	60 -120	5 Y 3/1	SiC	7.75	10.85
S 5 - 1	0 - 65	5 G 3/1	SiCL	7.3	9.1
- 2	65 - 85	7.5 GY 4/1	SCL	7.4	11.2
- 3	85 -134	7.5 GY 3/1	SiC	7.2	13.2
- 4	134 -160	5 BG 3/1	HC	-	-
S 6 - 1	0 - 35	5 G 4/1	SiC	7.85	8.37
- 2	35 - 84	10 G 2.5/1	HC	7.85	9.66
- 3	84 -150	10 G 4/1	SiC	7.95	10.23
S 7 - 1	0 - 50	10 G 3/1	SiC	7.35	23.1
- 2	50 - 75	10 G 4/1	SC	7.8	15.4
- 3	75 -100	5 G 4/1	HC	7.85	21.2
- 4	100 -130	10 G 4/1	SiC	7.25	35.5
- 5	130 -150	10 G 3/1	HC	7.35	28.1
S 8 - 1	0 - 30	10 G 4/1	SiC	7.45	42.0
- 2	30 - 60	5 Y 5/1	HC	7.8	10.0
- 3	60 - 85	5 G 4/1	HC	7.6	26.4
- 4	85 -120	5 G 4/1	SL	7.55	36.9
S 9 - 1	0 - 42	5 G 4/1	HC	7.65	16.9
- 2	42 - 68	5 G 4/1	SiCL	7.6	21.3
- 3	68 -115	10 GY 4/1	SC	7.65	31.4
- 4	115 -140	7.5 GY 3.5/1	SiC	7.05	41.9
S 10 - 1	0 - 60	10 G 3/1	SiL	7.7	43.45
- 2	60 -140	10 GY 4/1	SiC	7.65	43.7
- 3	140 -170	10 GY 4/1	SCL	7.5	38.0
- 4	170 -200	10 GY 4/1	SiC	7.45	115.5

- continued -

FIELD TEST RESULTS OF SOIL

(Swamp)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
S 11 - 1	0 - 30	10 GY 4/1	SiCL	7.2	4.5
- 2	30 - 83	10 G 4/1	SiC	7.4	3.9
- 3	83 -150	10 G 4/1	SiC	7.9	6.76
S 12 - 1	0 - 30	5 G 4/1	SiCL	7.1	10.8
- 2	30 - 60	5 G 4/1	SiC	7.3	12.3
- 3	60 -100	5 G 3/1	SiC	7.1	18.6
S 13 - 1	0 - 40	7.5 GY 4/1	SiCL	7.4	16.1
- 2	40 - 80	7.5 GY 4/1	SiC	7.75	19.0
- 3	80 -100	10 G 3/1	HC	7.75	25.7
S 14 - 1	0 - 35	10 G 4/1	SiCL	7.1	17.9
- 2	35 - 58	5 G 3.5/1	HC	7.2	12.2
- 3	58 - 63	10 GY 5/1	LS	7.95	7.45
S 15 - 1	0 - 45	10 G 4/1	SiCL	7.2	10.4
- 2	45 - 65	5 G 4/1	SiC	7.1	13.2
- 3	65 - 85	5 G 4/1	SiC	7.45	9.73
S 16 - 1	0 - 50	5 G 4/1	SiCL	7.2	12.6
- 2	50 - 86	10 G 4/1	SiC	7.75	10.77
- 3	86 -100	5 G 4/1	SiC	7.9	9.76
S 17 - 1	0 - 75	10 G 4.5/1	SiCL	7.4	3.96
- 2	75 - 85	10 G 4/1	SiC	7.2	12.2
- 3	85 -100	10 G 3/1	SiC	7.0	14.9
S 18 - 1	0 - 50	5 G 4/1	SiCL	7.4	12.6
- 2	50 - 70	10 G 4/1	SiC	7.8	20.6
- 3	70 - 86	10 G 4.5/1	SiC	7.2	17.0
S 19 - 1	0 - 55	10 G 3.5/1	SiCL	7.7	16.2
- 2	55 - 75	10 GY 4/1	SiC	7.85	34.1
- 3	75 -100	7.5 GY 4/1	SiC	7.75	16.67
S 20 - 1	0 - 59	10 G 3/1	SiCL	7.7	17.6
- 2	59 - 80	10 G 4/1	SiC	7.5	21.2
- 3	80 -100	10 G 4/1	SiC	7.8	18.1
G 21 - 1	0 - 60	10 G 3/1	SiCL	7.2	23.1
- 2	60 - 79	5 G 4/1	SiC	7.4	15.6
- 3	79 -100	7.5 GY 4/1	SiC	7.3	20.7

- continued -

FIELD TEST RESULTS OF SOIL
(Swamp)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
S 22 - 1	0 - 60	5 G 3.5/1	SiCL	7.35	15.81
- 2	60 - 85	5 G 4/1	SiC	7.8	29.1
- 3	85 -100	5 G 4/1	SiC	7.35	15.33
S 23 - 1	0 - 50	10 G 4/1	SiCL	7.65	10.98
- 2	50 - 70	10 G 4/1	SiC	7.35	17.9
- 3	70 - 90	5 G 3.5/1	SiC	7.4	12.8
S 24 - 1	0 - 50	10 G 4/1	SiCL	7.3	12.3
- 2	50 - 70	5 G 4/1	SiC	7.1	4.4
- 3	70 - 90	7.5 GY 4/1	SiC	7.75	23.4
S 25 - 1	0 - 40	10 G 4/1	SiCL	-	-
- 2	40 - 70	5 G 4/1	SiC	7.5	28.8
- 3	70 - 95	10 G 4/1	SiC	7.1	2.9
S 26 - 1	0 - 50	10 G 4/1	SiCL	7.45	20.1
- 2	50 -126	10 G 4/1	SiC	7.6	13.85
- 3	126 -180	5 G 4/1	SiC	7.85	25.1
S 27 - 1	0 - 40	10 G 4/1	SiCL	7.3	12.9
- 2	40 - 80	10 G 4/1	SiC	7.4	17.8
- 3	80 -120	10 GY 4/1	SiC	7.65	20.0
S 28 - 1	0 - 50	10 G 4/1	SiC	7.0	4.39
- 2	50 - 80	5 G 4/1	SiC	7.2	3.3
- 3	80 -160	3.5 G 4/1	SiC	7.3	6.1
S 29 - 1	0 - 50	2.5 Y 5/1	HC	7.6	24.3
- 2	50 - 75	10 YR 5/2	HC	7.1	3.87
- 3	75 -100	10 YR 4/2	HC	7.2	18.1
- 4	100 -120	10 YR 4/2	SiC	-	-
S 30 - 1	0 - 25	10 YR 4/1	HC	7.3	14.0
- 2	25 - 60	10 YR 4.5/3	HC	7.5	1.65
- 3	60 -120	10 YR 4/2	HC	7.8	6.3
S 31 - 1	0 - 25	10 YR 4/1	HC	7.6	9.1
- 2	25 - 60	10 YR 4/1	HC	7.55	22.7
- 3	60 -100	10 YR 4/2.5	HC	8.0	13.4
S 32 - 1	0 - 25	10 GY 5/1	HC	7.25	14.1
- 2	25 - 60	10 YR 5/2	HC	7.8	9.36
- 3	60 -100	10 GY 5/1	HC	7.0	13.7

- continued -

FIELD TEST RESULTS OF SOIL
(Swamp)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
S 33 - 1	0 - 30	10 GY 5/1	HC	7.75	26.1
- 2	30 - 60	10 GY 5/1	HC	7.75	17.1
- 3	60 -120	10 GY 5/1	HC	7.6	12.2
S 34 - 1	0 - 30	10 G 4/1	HC	7.6	21.5
- 2	30 - 60	10 GY 5/1	HC	7.5	16.1
- 3	60 -120	10 YR 5/2	HC	7.65	12.5
S 35 - 1	0 - 30	10 GY 5/1	HC	7.75	13.5
- 2	30 - 60	10 GY 5/1	HC	7.4	20.6
- 3	60 -120	10 YR 5/2	HC	7.6	38.7
S 36 - 1	0 - 30	10 GY 5/1	HC	6.95	8.1
- 2	30 - 60	10 YR 4/2	HC	7.0	3.85
- 3	60 -120	10 GY 5/1	HC	7.5	42.3
S 37 - 1	0 - 30	10 YR 5/1	HC	7.8	11.4
- 2	30 - 60	10 GY 5/1	HC	7.2	14.1
- 3	60 -120	10 YR 5/1	HC	7.75	9.6
S 38 - 1	0 - 30	10 GY 5/1	HC	7.95	13.4
- 2	30 - 60	10 GY 5/1	HC	7.45	9.67
- 3	60 -120	10 YR 4/1	HC	7.65	59.4
S 39 - 1	0 - 65	10 G 3.5/1	HC	7.75	40.6
- 2	65 -100	10 GY 5/1	HC	7.75	41.0
- 3	100 -185	10 G 4/1	HC	7.8	15.6
S 40 - 1	0 - 45	10 G 3/1	SiC	7.6	17.1
- 2	45 -120	10 G 4/1	HC	7.45	40.6
- 3	120 -195	10 G 3.5/1	HC	-	-
S 41 - 1	0 - 35	10 G 3.5/1	HC	7.4	15.8
- 2	35 - 65	10 GY 5/1	HC	7.3	20.1
- 3	65 -200	10 G 4/1	HC	7.8	29.7
S 42 - 1	0 -,60	10 GY 5/1	HC	7.4	4.3
- 2	60 - 85	10 G 4/1	HC	7.2	7.5
- 3	85 -115	10 GY 4/1	HC	7.85	16.9
S 43 - 1	0 - 45	10 G 3.5/1	SiC	7.5	7.9
- 2	45 -100	10 G 3/1	SiC	7.3	11.18
- 3	100 -120	5 G 4/1	S	7.9	8.7

- continued -

FIELD TEST RESULTS OF SOIL

(Swamp)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
S 44 - 1	0 - 50	10 G 3/1	SiC	7.45	16.4
- 2	50 -145	10 G 4/1	SiC	7.5	6.3
- 3	145 -195	10 G 3.5/1	HC	7.3	42.1
S 45 - 1	0 - 30	7.5 YR 4/1.5	HC	7.8	4.9
- 2	30 - 60	10 YR 4/2	HC	7.6	16.5
- 3	60 -125	10 YR 4/1	HC	7.4	25.7
S 46 - 1	0 - 30	7.5 GY 5/1	HC	7.75	46.7
- 2	30 - 60	10 GY 4.5/1	HC	7.7	11.7
- 3	60 -120	7.5 GY 4/2	HC	7.3	25.8
S 47 - 1	0 - 30	5 G 5/1	HC	7.8	17.47
- 2	30 - 60	10 YR 5/2	HC	7.65	22.6
- 3	60 -120	10 YR 5/1	HC	7.7	10.98
S 48 - 1	0 - 30	2.5 Y 4/1	HC	7.5	11.7
- 2	30 - 60	10 YR 4/2	HC	7.65	50.5
- 3	60 -120	2.5 GY 4/1	HC	7.65	32.6
S 49 - 1	0 - 30	7.5 Y 4/1	HC	7.65	12.8
- 2	30 - 60	10 YR 4/2	HC	7.85	7.96
- 3	60 -120	10 YR 4/2	HC	7.3	1.5
S 50 - 1	0 - 30	10 G 4/1	HC	7.75	9.59
- 2	30 - 60	7.5 GY 5/1	HC	7.2	5.0
- 3	60 -120	10 Y 4/1	HC	7.85	37.9
S 51 - 1	0 - 30	5 G 4/1	HC	7.5	14.4
- 2	30 - 60	10 GY 4/1	HC	7.4	10.2
- 3	60 -120	5 GY 5/1	HC	7.2	6.9
S 52 - 1	0 - 30	5 GY 5/1	HC	7.55	11.7
- 2	30 - 60	10 YR 4/2	HC	7.4	9.0
- 3	60 -120	10 YR 4/2	HC	7.65	4.88
S 53 - 1	0 - 30	10 GY 3.5/1	SiCL	7.3	8.1
- 2	30 - 84	10 G 4/1	SiC	7.6	4.7
- 3	84 - 95	10 G 4/1	SiC	7.5	34.2
S 54 - 1	0 - 30	10 GY 4/1	SiC	8.0	5.21
- 2	30 - 60	5 G 4/1	HC	7.75	13.49
- 3	60 -120	2.5 GY 5/1	HC	7.6	6.7

- continued -

FIELD TEST RESULTS OF SOIL
(Swamp)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
S 55 - 1	0 - 65	10 G 3.5/1	SiCL	7.3	8.7
- 2	65 - 83	10 G 4/1	SiC	7.6	4.4
- 3	83 -115	10 G 4.5/1	SiC	7.4	5.1
S 56 - 1	0 - 50	10 G 3/1	SiCL	7.6	5.2
- 2	50 - 67	10 G 4/1	SiC	7.75	3.36
- 3	67 - 85	10 G 4.5/1	SiC	7.55	7.5
S 57 - 1	0 - 55	10 G 3.5/1	SiCL	7.1	21.6
- 2	55 - 90	10 G 4/1	SiC	7.85	11.2
- 3	90 -115	10 G 4.5/1	SiC	7.95	14.07
S 58 - 1	0 - 30	5 G 4/1	SiC	7.85	10.6
- 2	30 - 60	5 G 4/1	HC	7.0	22.7
- 3	60 -120	10 YR 5.5/1	HC	7.85	13.82
S 59 - 1	0 - 30	10 G 4/1	SiC	7.2	11.6
- 2	30 - 60	10 G 4/1	SiC	7.6	26.1
- 3	60 -120	10 G 4/1	SCL	7.2	4.1
S 60 - 1	0 - 60	10 G 4/1	SiCL	7.6	13.9
- 2	60 -120	5 G 4/1	SiC	7.5	16.2
- 3	120 -165	5 G 4/1	SiC	7.4	32.5
S 61 - 1	0 - 30	10 G 3.5/1	HC	7.7	24.4
- 2	30 - 60	10 YR 4/1	HC	7.4	37.8
- 3	60 -120	10 YR 5/1	HC	7.75	3.12
S 62 - 1	0 - 30	10 YR 5/1	HC	7.65	1.73
- 2	30 - 60	10 GY 5.5/1	SiCL	7.55	53.3
- 3	60 -120	10 GY 5.5/1	SiC	7.95	34.0
S 63 - 1	0 - 30	10 YR 4/2	HC	7.8	0.4
- 2	30 - 60	10 YR 4.5/2	HC	7.7	9.9
- 3	60 -120	10 YR 5/1	HC	7.7	11.2
S 64 - 1	0 - 30	10 YR 4/2	HC	7.0	14.5
- 2	30 - 60	10 YR 4/2	HC	7.3	12.8
- 3	60 -120	10 YR 5/2	HC	7.7	23.1
S 65 - 1	0 - 30	2.5 Y 5/2	HC	7.75	34.5
- 2	30 - 60	10 YR 4/2	HC	7.65	24.1
- 3	60 -120	10 YR 4.5/1	HC	7.5	0.85

- continued -

FIELD TEST RESULTS OF SOIL

(Swamp)

PIT No. & HORIZON	DEPTH (cm)	SOIL COLOUR	SOIL TEXTURE	pH	EC (mmhos/cm)
S 66 - 1	0 - 30	10 YR 4.5/1	HC	7.4	29.7
- 2	30 - 60	10 YR 4.5/1	HC	7.3	20.1
- 3	60 -120	10 YR 5/1.5	HC	7.65	33.4
S 67 - 1	0 - 30	10 YR 4/2	HC	7.4	12.9
- 2	30 - 60	10 YR 4/1	HC	7.0	3.69
- 3	60 -120	10 YR 4/1	HC	7.7	7.59
S 68 - 1	0 - 30	10 YR 4/2	HC	7.5	22.9
- 2	30 - 60	10 YR 4/2.5	HC	7.4	15.8
- 3	60 -120	10 YR 4/2.5	HC	7.7	20.4
S 69 - 1	0 - 30	10 G 3/1	HC	-	-
- 2	30 - 60	2.5 Y 4.5/1	HC	-	-
- 3	60 - 90	10 GY 3.5/1	HC	-	-
S 70 - 1	0 - 13	10 G 4/1	HC	-	-
- 2	13 - 30	2.5 Y 4/1.5	HC	-	-
- 3	30 - 66	2.5 Y 4/1.5	HC	-	-
- 4	66 - 81	10 G 4/1	HC	-	-
- 5	81 -100	2.5 Y 4/1.5	HC	-	-
S 71 - 1	0 - 20	5 Y 4/1	SCL	-	-
- 2	20 - 75	2.5 Y 4/1.5	HC	-	-
- 3	75 - 90	10 G 4/1	HC	-	-
S 72 - 1	0 - 30	10 YR 4.5/2	HC	-	-
- 2	30 - 60	10 G 4/1	HC	-	-
- 3	60 - 90	10 G 4/1	HC	-	-
S 73 - 1	0 - 20	10 BG 2.5/1	HC	-	-
- 2	20 - 45	10 Y 4/1	HC	-	-
- 3	45 - 90	10 GY 4/1	HC	-	-
S 74 - 1	0 - 22	5 GY 4/1	HC	-	-
- 2	22 - 70	2.5 Y 4/1	HC	-	-
- 3	70 - 85	5 BG 4/1	HC	-	-
- 4	85 -100	7.5 Y 4/1	HC	-	-

A-2 Physical and Chemical Properties for Soil Profile

EBA - AR1

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. L 42

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
L42 - 1	0- 30	20	2.5	77.5	SiL	30	7.7	51.5	7.0	2.0	27.2
- 2	30- 60	20	5	75	SiL	33	7.15	71.4	10.5	2.4	22.1

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
L42 - 1	0- 30	2.54	590	149.2	45.57	156.13	536	3.0	20.0	25.0	0.2
- 2	30- 60	2.94	980	58.3	32.55	258.64	746	4.2	22.0	31.8	1.04

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
L42 - 1	0- 30	0.01	1.08	12.5
- 2	30- 60	0.05	1.28	36.85

EBA - AR2

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. L 31

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
L31 - 1	0- 30	20	40	40	L	40	6.85	112.8	11.5	2.4	20.6
- 2	30- 60	10	60	30	SiL	47	7.0	77.3	9.5	1.1	13.4

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
L31 - 1	0- 30	1.27	1,610	364.9	39.06	487.14	1,446	4.2	18.0	33.9	0.9
- 2	30- 60	1.56	1,060	40.2	60.76	240.14	797	4.1	24.0	39.6	1.4

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
L31 - 1	0- 30	0.05	0.89	25.4
- 2	30- 60	0.07	1.0	6.9

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. L 50

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
L50 - 1	0- 30	40	45	15	SiC	84	7.05	37.6	6.0	1.6	23.4
- 2	30- 60	60	30	10	C	80	7.3	43.1	-	-	-
- 3	60-120	50	30	20	C	82	7.65	38.5	-	-	-

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
L50 - 1	0- 30	2.54	400	130.7	30.38	102.92	397	3.1	31.0	19.35	1.0
- 2	30- 60	3.9	355.1	86.7	40.2	83.7	320	1.8	-	-	0.96
- 3	60-120	4.7	310.3	80.8	14.7	69.3	310	1.8	-	-	0.93

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
L50 - 1	0- 30	0.05	0.40	-
- 2	30- 60	0.05	1.10	-
- 3	60-120	0.05	0.95	11.2

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. L 170

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
L170- 1	0- 30	40	45	15	SiC	70	7.05	55.5	-	-	-
- 2	30- 60	40	50	10	Sic	79	7.15	49.7	-	-	-
- 3	60-120	40	35	25	C	94	7.25	48.5	6.5	1.4	21.1

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
L170- 1	0- 30	2.15	650.7	179.72	50.06	139.4	639	3.1	-	-	1.2
- 2	30- 60	2.15	582.5	154.81	42.76	110.9	582	3.8	-	-	0.24
- 3	60-120	1.56	545.74	138.5	39.06	106.74	537	3.9	29	22.4	0.44

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
L170- 1	0- 30	0.06	0.32	-
- 2	30- 60	0.01	0.38	-
- 3	60-120	0.02	0.46	-

EBA - AD1

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. L 2

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
L2 - 1	0- 30	40	45	15	SiC	95	7.1	7.41	5.0	1.2	22.8
- 2	30- 60	25	55	20	SiL	66	7.0	79.4	6.0	1.4	26.6
- 3	60-120	30	40	30	CL	70	7.6	12.11	6.0	2.6	23.4

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
L2 - 1	0- 30	2.35	62.9	32.3	11.6	15.9	69	0.6	29.0	17.2	2.0
- 2	30- 60	0.98	1080	111.9	71.61	21.29	1094	5.9	24.0	17.5	1.8
- 3	60-120	0.98	102.76	227.2	5.8	25	99	0.9	32.0	18.5	1.3

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
L2 - 1	0- 30	0.1	0.66	25.4
- 2	30- 60	0.09	0.35	42.1
- 3	60-120	0.065	0.4	11.4

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. L 6

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
L6 - 1	0 - 30	42	40	18	C	85	7.35	15.85	-	-	-
- 2	30- 60	45	35	20	C	95	7.05	51.4	8.0	1.6	27.4
- 3	60-120	43	27	30	C	90	6.85	137.5	-	-	-
- 4	120-200	35	45	20	SiCL	74	6.95	70.5	8.5	2.3	18.2

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
L6 - 1	0- 30	5.8	117.1	56.6	9.8	19.3	150	1.1	-	-	1.2
- 2	30- 60	1.56	610	84.5	32.55	123.55	538	3.8	37.0	21.6	0.8
- 3	60-120	1.9	1594.6	388.3	40.2	267.6	1625	25.0	-	-	1.1
- 4	120-200	1.96	920	108.7	54.25	176.45	796	4.2	29.0	29.3	0.6

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
L6 - 1	0- 30	0.06	1.0	-
- 2	30- 60	0.04	0.6	5.9
- 3	60-120	0.06	0.73	-
- 4	120-200	0.03	0.85	-

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. L 61

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
L61 - 1	0- 30	40	50	10	SiC	100	7.55	9.66	9.6	0.8	28.6
- 2	30- 60	45	45	10	SiC	81	7.55	16.28	4.8	0.85	13.35
- 3	60-120	55	20	25	C	95	7.65	25.5	-	-	-

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
L61 - 1	0- 30	2.15	67.52	50.2	19.72	25.18	75	0.5	29	15.9	0.88
- 2	30- 60	3.13	131.35	74.7	19.72	34.48	152	2.8	19	25.3	0.32
- 3	60-120	1.76	199.9	94.5	14.7	14.4	275	1.1	-	-	0.4

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
L61 - 1	0- 30	0.04	1.0	0.16
- 2	30- 60	0.02	0.8	-
- 3	60-120	0.02	1.1	25.2

EBA - AD2

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. L 71

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
L71 - 1	0- 30	45	25	30	C	96	7.35	7.55	3.5	0.5	22.0
- 2	30- 60	30	40	30	CL	70	7.25	9.41	-	-	-
- 3	60-120	41	49	10	SiC	74	7.55	12.11	3.4	1.0	22.6

Horizon	Depth (cm)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	SEC (me/100g)	ESP (%)	Organic Matter Content (%)
L71 - 1	0- 30	2.54	48.27	33.4	13.92	20.28	60	0.5	26	13.5	1.0
- 2	30- 60	1.96	56.33	45.82	16.72	25.29	70	1.1	-	-	0.43
- 3	60-120	1.96	10.17	147.1	6.96	22.24	128	2.3	27	12.6	0.38

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
L71 - 1	0- 30	0.05	1.08	17.0
- 2	30- 60	0.02	0.20	-
- 3	60-120	0.02	0.30	0.22

EBA - AD3

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. L 1

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
L1 - 1	0- 30	45	45	10	SiC	90	7.3	4.17	3.0	1.6	16.4
- 2	30- 60	40	50	10	SiC	90	7.45	4.84	3.5	2.7	14.3
- 3	60-120	40	45	15	Sic	70	7.0	77.3	8.0	2.8	20.2
-4	120-200	65	30	5	C	106	7.75	10.88	4.0	1.5	21.5

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
L1 - 1	0- 30	2.15	26.82	23.3	6.96	16.34	29	0.2	21.0	14.3	1.6
- 2	30- 60	2.19	38	16.5	5.0	11.7	40	0.4	20.5	17.1	0.66
- 3	60-120	1.17	1060	156.2	119.35	298.05	795	5.5	31.0	15.8	1.2
- 4	120-200	1.55	93.42	25.04	8.12	6.88	104	0.95	27.0	14.8	0.93

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
L1 - 1	0- 30	0.08	1.2	26.2
- 2	30- 60	0.03	0.8	19.8
- 3	60-120	0.06	0.7	-
- 4	120-200	0.05	1.2	16.0

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. L 47

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations		
									Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
L47 - 1	0- 30	35	35	30	CL	42	7.05	77.7	8.0	2.7	25.3
- 2	30- 60	15	60	25	SiL	47	7.15	53.2	9.5	1.8	16.7
- 3	60-120	40	45	15	SiC	64	7.35	42.4	7.5	2.1	12.4

Horizon	Depth (CM)	Water Saturated Soil Paste							CEC (me/100g)	ESP (%)	Organic Matter Content (%)
		HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)			
L47 - 1	0- 30	1.17	1,090	122.8	36.8	24.2	1,093	5.8	30.0	26.6	0.4
- 2	30- 60	1.96	610	153.6	49.91	95.69	617	3.2	28.0	33.9	0.24
- 3	60-120	1.17	490	114.9	32.55	73.55	496	4.2	22.0	34.1	0.5

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
L47 - 1	0- 30	0.02	1.1	36.8
- 2	30- 60	0.01	0.90	-
- 3	60-120	0.035	1.30	-

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. L 54

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
L54 - 1	0- 30	40	45	15	Sic	61	7.1	80.9	10.0	2.4	23.6
- 2	30- 60	40	50	10	Sic	86	7.65	4.49	2.8	0.6	16.6

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
L54 - 1	0- 30	1.17	1,110	151.9	47.74	210.36	996	5.8	30	28.0	0.17
- 2	30- 60	2.54	33.3	18.9	4.64	6.16	44	0.3	20	14.0	0.25

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
L54 - 1	0- 30	0.02	0.60	-
- 2	30- 60	0.01	1.02	-

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. L 145

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
L145- 1	0- 30	30	55	15	SiCL	50	7.55	18.35	-	-	-
- 2	30- 60	25	50	25	L	47	7.25	19.42	-	-	-
- 3	60-120	35	55	10	SiCL	54	7.15	20.7	4.8	1.2	26.0

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
L145- 1	0- 30	4.7	138.9	47.6	19.6	21.2	150	0.45	-	-	0.8
- 2	30- 60	2.74	165.52	95.6	16.27	52.13	188	1.9	-	-	0.43
- 3	60-120	2.15	190	75.4	16.24	51.26	199	1.8	32	15.0	0.17

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
L145- 1	0- 30	0.04	0.91	11.7
- 2	30- 60	0.02	0.48	-
- 3	60-120	0.009	0.95	-

EBA - AD2-H

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. L 10

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations		
									Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
L10 - 1	0- 30	35	50	15	SiCL	70	6.85	70.2	10.5	2.9	13.1
- 2	30- 60	42	43	15	SiC	71	6.85	61.6	10.0	2.4	19.1
- 3	60-120	41	42	17	SiC	72	6.95	78.1	11.0	1.9	22.1

Horizon	Depth (CM)	Water Saturated Soil Paste							CEC (me/100g)	ESP (%)	Organic Matter Content (%)
		HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)			
L10 - 1	0- 30	1.96	930	157.6	112.84	246.76	725	4.1	26.5	37.7	1.3
- 2	30- 60	2.15	860	112.3	90.05	39.78	616	3.9	31.5	31.7	1.4
- 3	60-120	1.17	1110	4.5	39.06	276.64	793	6.1	35.0	31.7	1.3

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
L10 - 1	0- 30	0.07	0.79	33.8
- 2	30- 60	0.07	1.4	118.6
- 3	60-120	0.07	1.12	15.5

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. L 11

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
L11 - 1	0- 30	30	30	40	CL	65	6.75	154.9	12.0	2.2	8.8
- 2	30- 60	37.5	37.5	25	CL	68	6.85	69.5	10.0	1.6	20.4
- 3	60-120	41	39	20	C	72	6.85	74.9	6.0	2.5	13.5
- 4	120-200	42	39	19	C	90	6.75	73.9	9.5	1.8	15.2

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
L11 - 1	0- 30	1.96	3,920	221.8	10.85	132.95	2,992	7.3	23.0	52.2	2.0
- 2	30- 60	1.27	910	213.2	49.41	274.57	793	6.1	32.0	31.25	1.3
- 3	60-120	1.17	1,000	168	15.19	304.01	745	5.1	30.0	20.0	1.26
- 4	120-200	1.17	960	112.4	60.76	212.84	797	3.8	32.0	29.7	1.2

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
L11 - 1	0- 30	0.1	0.58	81.6
- 2	30- 60	0.065	1.8	76
- 3	60-120	0.065	0.95	52.2
- 4	120-200	0.06	1.35	19.8

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. L 14

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations		
									Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
L14 - 1	0- 30	50	25	25	C	61	6.85	141.3	12.5	1.6	9.9
- 2	30- 60	45	30	25	C	77	7.35	37.6	7.5	2.05	23.45
- 3	60-120	60	30	10	C	110	7.65	8.1	4.0	1.7	23.8

Horizon	Depth (CM)	Water Saturated Soil Paste							CEC (me/100g)	ESP (%)	Organic Matter Content (%)
		HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)			
L14 - 1	0- 30	2.35	2,700	78.8	62.93	515.87	2,193	6.2	34.0	36.8	2.79
- 2	30- 60	1.96	382.02	114.3	18.44	107.86	366	3.1	33.0	22.7	0.85
- 3	60-120	1.17	80	8.03	6.96	12.24	70	0.6	29.5	13.55	1.3

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
L14 - 1	0- 30	0.14	0.45	32.5
- 2	30- 60	0.04	0.88	-
- 3	60-120	0.07	0.66	-

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PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. M 1

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
M1 - 1	0- 15	40	15	45	SiC	85	7.35	17.0	-	-	-
- 2	15- 50	30	20	50	SiCL	60	7.4	10.45	-	-	-
- 3	50-100	45	25	30	C	86	7.3	12.7	4.0	1.1	24.9
- 4	100-150	45	30	25	C	80	7.3	17.9	5.2	0.75	22.05

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
M1 - 1	0- 15	3.9	10506	74.25	21.6	20.0	145.0	1.15	-	-	2.4
- 2	15- 50	2.7	46.6	62.0	23.5	22.2	65.0	0.8	-	-	1.65
- 3	50-100	0.96	67	89.5	8.3	22.2	125	1.1	30	13.3	1.7
- 4	100-150	1.92	96	128.5	18.3	26.7	180	1.6	28	18.6	1.3

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
M1 - 1	0- 15	0.12	1.7	83.4
- 2	15- 50	0.08	1.1	25.3
- 3	50-100	0.085	1.45	40.3
- 4	100-150	0.069	1.42	97.9

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. M 7

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
M7 - 1	0- 30	25	15	60	SCL	40	7.25	10.95	-	-	-
- 2	30- 60	40	15	45	SC	50	7.45	13.1	-	-	-
- 3	60-120	45	25	30	C	60	7.55	15.5	-	-	-
- 4	120-150	95	25	30	C	66	7.5	19.8	5.0	0.35	30.65

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
M7 - 1	0- 30	3.1	36.2	78.7	31.4	36.0	50.0	0.65	-	-	-
- 2	30- 60	2.3	67.6	66.15	11.7	23.2	100.0	1.15	-	-	-
- 3	60-120	4.7	93.3	59.4	4.9	11.7	140.0	0.7	-	-	-
- 4	120-150	2.4	112.0	42.0	23.2	50.5	185.5	2.0	36	13.9	0.7

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
M7 - 1	0- 30	-	-	2.7
- 2	30- 60	-	-	34.2
- 3	60-120	-	-	28
- 4	120-150	0.035	1.30	21.8

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. M 8

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
M8 - 1	0- 30	25	10	64	SCL	40	7.5	14.55	-	-	-
- 2	30- 60	45	25	30	C	64	7.45	25.6	-	-	-
- 3	60-120	45	25	30	C	106	7.5	12.3	4.5	0.95	24.05
- 4	120-150	50	40	10	C	75	7.65	12.5	-	-	-

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
M8 - 1	0- 30	4.7	76.2	83.2	8.8	24.5	130.0	0.85	-	-	-
- 2	30- 60	4.3	198.0	71.75	12.7	20.6	240.0	0.75	-	-	-
- 3	60-120	2.4	61.0	83.5	105	15.0	120.0	1.5	29.5	15.25	0.7
- 4	120-150	4.7	96.2	45.5	3.4	1.6	150.0	0.25	-	-	-

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
M8 - 1	0- 30	-	-	16.4
- 2	30- 60	-	-	11.4
- 3	60-120	0.04	1.03	84.5
- 4	120-150	-	-	25.3

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. M 9

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
M9 - 1	0- 30	30	20	50	SCL	70	7.25	36.5	-	-	-
- 2	30- 60	45	25	30	C	97	7.4	19	5.6	1.1	26.3
- 3	60-120	50	40	10	C	117	7.5	16.2	6.0	0.8	28.2

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
M9 - 1	0- 30	2.7	299.8	138.0	20.6	43.5	375	1.45	-	-	-
- 2	30- 60	1.92	125	116	13	17	210	3.0	33	16.97	1.3
- 3	60-120	2.88	104	100	12.2	14.5	178	1.8	35	17.1	0.85

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
M9 - 1	0- 30	-	-	-
- 2	30- 60	0.07	1.6	69
- 3	60-120	0.05	1.3	39.5

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. M 10

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
M10 - 1	0- 30	35	45	20	SiCL	75	7.5	12	5.3	0.9	21.6
- 2	30- 60	35	45	20	SiCL	70	7.15	13.4	-	-	-
- 3	60-120	50	35	15	C	93	7.7	5.0	2.5	0.5	7.0

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
M10 - 1	0- 30	3.6	46	96	10.4	30	100	1.6	26	13.5	0.4
- 2	30- 60	2.7	79.9	79	14.7	21.1	125	0.8	-	-	-
- 3	60-120	1.92	23	31	5.1	10.5	40	0.4	20	12.5	0.36

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
M10 - 1	0- 30	0.02	0.95	68.8
- 2	30- 60	-	-	10.9
- 3	60-120	0.02	1.3	39.5

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. M 12

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
M12 - 1	0- 30	25	30	45	L	52	6.9	12.1	-	-	-
- 2	30- 60	30	40	30	CL	72	7.4	7.5	3.0	0.5	20.5
- 3	60-120	30	60	10	SiCL	60	7.15	40.8	-	-	-

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
M12 - 1	0- 30	4.3	33.3	107.1	49.9	44.1	50	0.75	-	-	-
- 2	30- 60	1.92	31.0	56.0	14.6	15.0	58	1.4	24	12.5	0.52
- 3	60-120	2.3	345.5	91.1	21.6	53.3	360	4.0	-	-	-

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
M12 - 1	0- 30	-	-	21.8
- 2	30- 60	0.03	1.3	26.2
- 3	60-120	-	-	18.7

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. M 13

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
M13 - 1	0- 50	30	35	35	CL	70	7.05	10.3	-	-	-
- 2	50-110	41	30	29	C	76	7.4	6.13	2.8	0.4	15.8
- 3	110-130	50	30	20	C	85	7.9	12.2	-	-	-
- 4	130-150	35	50	15	SiCL	65	7.4	6.13	2.6	0.86	18.55

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
M13 - 1	0- 50	4.3	42.4	67.1	32.3	25.9	55.0	0.6	-	-	-
- 2	50-110	0.96	30.0	41.0	6.2	9.4	55.0	0.5	29	9.7	1.8
- 3	110-130	5.8	76.2	39.3	9.8	12.0	100.0	0.55	-	-	-
- 4	130-150	2.5	30.0	39.5	5.0	7.0	59.0	1.0	22	11.8	0.4

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
M13 - 1	0- 50	-	-	23.0
- 2	50-110	0.09	2.74	42.6
- 3	110-130	-	-	11.92
- 4	130-150	0.09	1.9	21.6

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. M 14

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
M14 - 1	0- 15	25	25	50	SCL	55	7.05	18.85	-	-	-
- 2	15- 65	45	40	15	SiC	85	7.15	17.9	-	-	-
- 3	65- 90	40	50	10	SiC	84	7.6	3.1	1.8	0.8	14.4
- 4	90-140	40	50	10	SiC	85	7.6	10.0	2.55	0.9	14.55

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
M14 - 1	0- 15	4.7	93.3	10.6	34.3	43.1	120	1.2	-	-	-
- 2	15- 65	3.9	98.1	82.4	19.6	43.6	120	1.2	-	-	-
- 3	65- 90	1.73	19.0	13.2	3.2	5.5	25.0	0.2	24	7.5	0.84
- 4	90-140	3.2	77.0	36.9	6.6	8.5	100	1.5	24	10.6	0.24

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
M14 - 1	0- 15	-	-	4.3
- 2	15- 65	-	-	13.5
- 3	65- 90	0.04	1.1	87.6
- 4	90-140	0.01	1.8	49.8

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. M 15

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
M15 - 1	0- 30	35	40	25	CL	60	6.85	29.1	-	-	-
- 2	30- 50	30	20	50	SCL	60	7.05	12.6	3.1	1.05	16.85
- 3	50- 85	65	30	5	C	80	7.6	10.8	2.7	0.7	18.6
- 4	85-110	50	10	40	C	100	7.6	8.0	2.4	0.6	20.0

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
M15 - 1	0- 30	4.7	191.3	135.3	9.8	20.3	300	1.25	-	-	-
- 2	30- 50	2.7	59.9	63.5	11.7	26.1	87.5	0.85	21	14.8	0.9
- 3	50- 85	1.73	63	62.8	12.8	13.3	100	1.6	28	9.6	0.9
- 4	85-110	0.96	52	41.3	7.7	9.9	75	0.8	27	12.6	0.24

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
M15 - 1	0- 30	-	-	0.78
- 2	30- 50	0.045	1.9	61.6
- 3	50- 85	0.05	1.5	70.7
- 4	85-110	0.01	1.7	56.3

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. M 17

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
M17 - 1	0- 25	55	15	30	C	85	7.05	11.2	-	-	-
- 2	25- 70	15	15	70	SL	40	7.2	14.6	-	-	-
- 3	70-130	40	15	45	SC	83	7.8	8.5	2.5	1.0	16.5

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
M17 - 1	0- 25	3.1	88.1	75.3	31.3	39.5	40	0.75	-	-	-
- 2	25- 70	3.1	79.0	73.8	10.7	19.4	120	0.85	-	-	-
- 3	70-130	3.1	53	56	6.6	10.3	85	1.0	20	12.5	0.77

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
M17 - 1	0- 25	-	-	20.0
- 2	25- 70	-	-	12.96
- 3	70-130	0.04	1.3	71.9

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. S 4

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations		
									Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
S4 - 1	0- 30	50	20	30	C	100	7.55	39.2	2.9	0.6	17.5
- 2	30- 60	45	45	10	SiC	90	7.65	13.22	2.1	0.15	13.75
- 3	60-120	50	20	30	C	120	7.75	10.85	1.8	0.15	12.05

Horizon	Depth (CM)	Water Saturated Soil Paste							CEC (me/100g)	ESP (%)	Organic Matter Content (%)
		HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)			
S4 - 1	0- 30	2.35	420.37	141.1	35.81	107.99	416	3.2	26	11.2	2.2
- 2	30- 60	2.15	118.75	41.5	16.27	31.13	114	1.1	26	8.1	1.8
- 3	60-120	1.76	89.3	45.2	10.85	15.45	109	1.1	24	7.5	1.2

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
S4 - 1	0- 30	0.11	1.0	-
- 2	30- 60	0.09	0.9	-
- 3	60-120	0.06	1.1	6.1

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. S 6

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
S6 - 1	0- 35	45	45	10	SiC	84	7.85	8.37	1.8	0.25	14.95
- 2	35- 84	65	30	5	C	145	7.85	9.66	1.6	0.35	12.05
- 3	84-150	45	45	10	SiC	72	7.95	10.23	1.8	0.4	17.8

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
S6 - 1	0- 35	1.96	63.65	44.2	8.68	21.12	79	0.9	17	10.6	1.6
- 2	35- 84	2.15	72.2	51.9	4.04	21.96	99	1.0	25	10.4	1.7
- 3	84-150	2.15	92.15	33.5	5.42	17.38	104	0.95	20	9.0	1.8

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
S6 - 1	0- 35	0.09	1.3	-
- 2	35- 84	0.09	1.0	1.28
- 3	84-150	0.05	1.17	-

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PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. M 18

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
M18 - 1	0- 50	20	30	50	L	50	7.3	31.5	-	-	-
- 2	50-110	15	20	65	SL	80	7.4	15.5	3.3	0.9	21.8
- 3	135-160	25	35	40	L	50	7.4	13.6	2.8	0.8	15.4

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
M18 - 1	0- 50	5.8	210.4	127.9	29.4	63.7	250	1.0	-	-	2.4
- 2	50-110	3.2	92	95	26	37.8	125	1.3	16	14.4	2.4
- 3	135-160	2.7	108	59	16.2	22.7	130	1.1	19	14.7	0.42

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
M18 - 1	0- 50	0.13	1.90	7.4
- 2	50-110	0.12	1.3	51
- 3	135-160	0.02	1.2	19.1

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. M 19

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
M19 - 1	0- 30	10	20	70	SL	40	7.4	13.95	-	-	-
- 2	30- 50	10	60	30	SiL	50	7.4	18.15	-	-	-
- 3	50- 80	30	40	30	CL	60	7.1	12.6	1.9	1.0	12.1

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CES (me/100g)	ESP (%)	Organic Matter Content (%)
M19 - 1	0- 30	4.7	59	79.1	42.1	39.4	60.5	0.8	-	-	-
- 2	30- 50	3.1	83.8	100	32.3	43.4	110	1.2	-	-	-
- 3	50- 80	3.8	90	60	22	46.5	85	0.4	25	15.6	2.4

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
M19 - 1	0- 30	-	-	17.0
- 2	30- 50	-	-	8.8
- 3	50- 80	0.13	1.5	45.3

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. M 23

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
M23 - 1	0- 50	40	55	5	SiC	80	7.5	3.8	1.5	1.0	15.5
- 2	50-100	25	15	60	SCL	60	7.2	3.8	1.7	1.2	12.1
- 3	100-112	35	45	20	SiCL	55	7.4	26	4.1	1.6	23.3
- 4	112-139	25	15	60	SCL	45	7.5	12.65	-	-	-
- 5	139-170	20	5	75	SL	40	7.2	285	3.8	1.9	20.3

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
M23 - 1	0- 50	1.9	26	12.5	3.1	10.8	26	0.6	18	8.3	1.6
- 2	50-100	1.15	30	8.5	2.4	5.0	32	0.3	20	8.5	1.0
- 3	100-112	1.44	260	85	48.7	54.9	240	2.5	26	15.8	1.2
- 4	112-139	3.5	59.5	66.3	7.35	8.65	112.5	0.8	-	-	-
- 5	139-170	1.9	320	52	23.4	80.7	270	1.9	26	14.6	0.4

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
M23 - 1	0- 50	0.1	1.7	35.2
- 2	50-100	0.05	1.26	73.4
- 3	100-112	0.06	1.2	20.5
- 4	112-139	-	-	9.97
- 5	139-170	0.02	1.8	30.3

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. M 24

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
M24 - 1	0- 25	15	15	70	SL	-	-	-	-	-	-
- 2	25- 70	30	15	55	SCL	-	-	-	-	-	-
- 3	70- 81	15	15	70	SL	-	-	-	-	-	-
- 4	81-126	15	15	70	SL	32	7.2	9.0	2.3	0.8	17.9

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
M24 - 1	0- 25	-	-	-	-	-	-	-	-	-	-
- 2	25- 70	-	-	-	-	-	-	-	-	-	-
- 3	70- 81	-	-	-	-	-	-	-	-	-	-
- 4	81-126	1.3	90	17.7	11.8	25.2	70	2	21	10.95	0.22

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
M24 - 1	0- 25	-	-	-
- 2	25- 70	-	-	-
- 3	70- 81	-	-	-
- 4	81-126	0.06	1.6	42.6

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. M 25

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
M25 - 1	0- 35	10	10	80	LS	-	-	-	-	-	-
- 2	35- 84	40	50	10	SiC	67	7.3	11.5	3.0	0.95	21.05
- 3	84-100	15	15	70	SL	50	7.6	6.5	3.1	0.4	10.5
- 4	100-160	-	-	-	-	38	7.5	21	3.5	0.85	20.65

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
M25 - 1	0- 35	-	-	-	-	-	-	-	-	-	-
- 2	35- 84	1.5	93	46.8	8.2	19.6	110	1.3	25	12.0	1.4
- 3	84-100	1.3	45	27.7	5.7	9.6	58	0.7	24	12.9	0.9
- 4	100-160	3.1	200	70	28.7	42.5	200	2	25	14.0	0.24

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
M25 - 1	0- 35	-	-	-
- 2	35- 84	0.07	2.16	48.9
- 3	84-100	0.05	1.52	57.1
- 4	100-160	0.01	2.27	32.6

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. M 26

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
M26 - 1	25- 50	-	-	-	-	62	7.5	10.5	2.1	0.6	19.3
- 2	50- 70	-	-	-	-	63	7.7	12	2.6	0.75	14.65
- 3	128-135	-	-	-	-	40	7.7	18.5	2.2	0.3	17.5

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
M26 - 1	25- 50	1.3	85	37.7	11.2	17	95	0.8	22	9.5	0.57
- 2	50- 70	1.8	115	29.5	17.5	32.5	95	1.3	18	14.4	1.4
- 3	128-135	2.1	96	13.9	6.6	13.3	70	1.1	20	11.0	1.2

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
M26 - 1	25- 50	0.03	1.3	56.4
- 2	50- 70	0.07	1.4	39.5
- 3	128-135	0.06	1.2	50.6

JAC - aw3

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. M 20

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Satura-tion (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
M20 - 1	0- 30	30	20	50	SCL	50	7.1	21.8	-	-	-
- 2	30- 60	45	45	10	SiC	76	7.4	9.0	1.5	1.0	10.5
- 3	60- 85	30	30	40	CL	58	7.4	4.0	1.7	0.8	10.5
- 4	85-130	50	45	5	C	85	7.0	3.0	1.25	0.7	9.05

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
M20 - 1	0- 30	2.9	92.3	142	57.3	39.8	110	1.1	-	-	-
- 2	30- 60	2.7	52	52	18	28.3	60	0.7	28	8.9	0.96
- 3	60- 85	2.88	36	66	2	10	42	0.6	26	10.4	1.1
- 4	85-130	2.3	15	14	2.1	5.3	23	0.3	21	5.9	1.3

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
M20 - 1	0- 30	-	-	0.94
- 2	30- 60	0.05	1.64	98
- 3	60- 85	0.06	0.94	73
- 4	85-130	0.07	1.55	28.6

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. M 27

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Satura-tion (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
M27 - 1	23- 75	-	-	-	-	73	7.6	15	3.3	0.9	19.8
- 2	75-132	20	40	40	L	46	7.25	25.2	3.2	0.95	21.25
- 3	132-170	45	45	10	SiC	72	7.15	25	3.5	0.75	21.75

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
M27 - 1	23- 75	2.3	135	48.1	13.5	30.4	140	1.15	24	13.7	0.92
- 2	75-132	3.52	235.6	112.6	9.76	38.44	297	2.9	26	14.6	1.45
- 3	132-170	2.35	214.6	116.4	13.52	55.38	188	3.8	26	13.5	3.0

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
M27 - 1	23- 75	0.05	1.5	24.5
- 2	75-132	0.075	1.6	-
- 3	132-170	0.16	1.83	-

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. M 28

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
M28 - 1	0- 40	17.5	27.5	55	SL	34	6.95	19.42	2.1	0.6	13.3
- 2	40- 60	20	45	35	L	65	7.05	17.21	-	-	-
- 3	60-125	45	45	10	SiC	70	7.25	16.68	2.0	0.8	15.2
- 4	125-200	45	30	25	C	95	7.75	11.63	2.4	0.5	19.1

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
M28 - 1	0- 40	2.74	160.02	95.6	16.27	52.13	188	1.9	16	18.1	2.05
- 2	40- 60	2.35	145.21	87	12.52	45.44	175	1.6	-	-	2.85
- 3	60-125	2.94	130.42	92.7	21.7	34.4	169	1.6	18	11.1	2.3
- 4	125-200	2.94	86.95	45.3	6.51	13.69	112	2.2	28	8.6	1.8

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
M28 - 1	0- 40	0.1	1.4	11.2
- 2	40- 60	0.14	1.54	-
- 3	60-125	0.11	3	9.6
- 4	125-200	0.09	1.7	-

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. M 29

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
M29 - 1	0- 40	20	40	40	L	44	7.85	16.83	3.5	1.1	20.4
- 2	40- 75	45	45	10	SiC	76	7.45	19.28	3.9	1.3	21.8
- 3	75-125	50	20	30	C	120	7.25	29.3	4.1	1.4	25.5
- 4	125-200	50	20	30	C	106	7.35	14.3	3.2	1.6	21.2

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
M29 - 1	0- 40	3.13	142.45	73.9	9.76	39.74	166	3.2	25	14.4	1.1
- 2	40- 75	2.35	175.75	61.4	13.02	36.48	188	1.9	27	14.4	1.2
- 3	75-125	1.96	263.62	163.9	24.95	64.55	336	3.7	31	13.2	3.0
- 4	125-200	2.94	116.55	61.7	6	85.2	89	0.8	28	11.4	1.8

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
M29 - 1	0- 40	0.055	2.3	-
- 2	40- 75	0.06	1.0	-
- 3	75-125	0.15	1.3	-
- 4	125-200	0.09	1.13	-

JAC - aw4

JAC - aw5

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. M 21

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
M21 - 1	38- 60	40	15	45	SC	60	7.2	8.5	1.3	0.6	12.1
- 2	60-100	35	35	30	CL	63	7.3	6.0	1.7	0.3	13.0
- 3	100-150	40	50	10	SiCL	65	7.6	4.2	1.0	0.2	10.8

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
M21 - 1	38- 60	2.88	5.25	48.6	7.3	19.5	76	1.2	14	9.3	1.66
- 2	60-100	2.5	50	14	5.1	7.1	54	0.5	15	11.3	1.1
- 3	100-150	2.49	37.5	6	2.8	2.8	40	0.4	22	4.5	1.37

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
M21 - 1	38- 60	0.09	2.7	41.9
- 2	60-100	0.06	0.81	72.9
- 3	100-150	0.07	1.3	43.9

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. M 22

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
M22 - 1	0- 35	30	40	30	CL	-	-	-	-	-	-
- 2	35- 60	30	40	30	CL	-	-	-	-	-	-
- 3	60-120	35	40	25	CL	50	7.2	17.6	3.6	0.8	20.6
- 4	120-140	41	50	9	SiC	87	7.4	6.0	1.8	1.0	14.2

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CES (me/100g)	ESP (%)	Organic Matter Content (%)
M22 - 1	0- 35	-	-	-	-	-	-	-	-	-	-
- 2	35- 60	-	-	-	-	-	-	-	-	-	-
- 3	60-120	2.88	140	84	9.2	15.8	200	2.0	25	14.4	0.25
- 4	120-140	1.9	50	16.5	4.2	12.5	50	0.7	17	10.6	1.5

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
M22 - 1	0- 35	-	-	-
- 2	35- 60	-	-	-
- 3	60-120	0.01	1.3	57.2
- 4	120-140	0.08	1.4	49.5

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. M 30

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
M30 - 1	0- 22	30	60	10	SiCL	61	7.55	22.2	4.1	1.8	27.1
- 2	22- 75	41	49	10	SiC	67	7.55	65	2.9	1.6	28.5
- 3	75- 92	40	50	10	SiC	74	6.65	34.2	3.8	1.3	24.9
- 4	92-160	10	45	45	L	48	6.85	16.41	2.8	0.95	20.25
- 5	160-165	10	20	70	SL	34	7.05	26.9	4.3	1.0	22.7

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
M30 - 1	0- 22	2.15	199.8	88.7	23.87	56.83	207	2.6	26	15.4	1.9
- 2	22- 75	1.96	684.5	284.1	58.59	51.91	855	4.1	36	12.4	1.98
- 3	75- 92	3.13	316.81	161.5	22.55	128.85	316	2.9	30	12.7	2.8
- 4	92-160	1.56	203.5	9.4	15.19	42.71	153	1.3	24	11.7	2.75
- 5	160-165	3.13	247.9	127.5	18.44	56.96	296	3.9	16	11.3	1.5

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
M30 - 1	0- 22	0.1	1.61	-
- 2	22- 75	0.1	1.1	10.4
- 3	75- 92	0.14	0.72	-
- 4	92-160	0.14	1.77	-
- 5	160-165	0.08	1.28	-

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. M 32

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
M32 - 1	0- 50	25	25	50	SCL	69	7.6	18.24	2.6	0.7	16.7
- 2	50- 95	25	25	50	SCL	62	7.6	35.25	-	-	-
- 3	95-125	20	20	60	SCL	65	7.7	32	5.1	1.5	22.4
- 4	125-142	45	25	30	C	91	7.85	14.24	2.8	0.3	18.9
- 5	142-180	35	45	20	SiCL	63	6.95	25.8	3.7	0.25	22.05

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
M32 - 1	0- 50	2.74	235.87	8.03	26.69	52.21	162	3.1	20	13.0	1.0
- 2	50- 95	2.3	252.3	130.7	29.4	54.0	300	1.95	-	-	0.84
- 3	95-125	1.96	246.05	191.6	23.87	85.73	326	2.8	29	17.5	0.9
- 4	125-142	2.94	171.15	13.6	18.44	34.16	133	1.9	22	12.7	0.96
- 5	142-180	2.54	228.95	122.5	15.19	81.31	252	3.1	26	14.2	0.77

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
M32 - 1	0- 50	0.05	2.54	21
- 2	50- 95	0.04	1.7	6.6
- 3	95-125	0.05	1.30	3.5
- 4	125-142	0.05	1.9	-
- 5	142-180	0.08	1.52	-

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. S 2

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations		
									Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
S2 - 1	0- 44	35	45	20	SiCL	70	7.15	59.5	6.1	0.8	28.1
- 2	44- 98	40	50	10	SiC	112	6.95	52.2	5.8	1.2	20.0
- 3	98-150	30	30	40	CL	65	6.95	58.5	5.5	1.4	22.1

Horizon	Depth (CM)	Water Saturated Soil Paste							CEC (me/100g)	ESP (%)	Organic Matter Content (%)
		HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)			
S2 - 1	0- 44	1.17	741	147.2	59.67	129.73	697	4.1	25	20.4	1.5
- 2	44- 98	1.56	631.75	95.5	31.46	112.34	576	3.9	27	21.5	1.9
- 3	98-150	0.98	741	132.5	36.89	187.61	646	4.1	29	19.0	1.5

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
S2 - 1	0- 44	0.08	0.88	0.96
- 2	44- 98	0.095	0.7	-
- 3	98-150	0.08	1.1	-

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. S 7

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
S7 - 1	0- 50	45	50	5	SiC	80	7.35	23.1	2.3	0.85	14.85
- 2	50- 75	40	15	45	SC	80	7.8	15.4	2.0	0.4	12.6
- 3	75-100	50	10	40	C	67	7.85	21.2	2.6	0.6	17.8
- 4	100-130	45	45	10	SiC	85	7.25	35.5	3.8	1.05	17.15
- 5	130-150	55	15	30	C	100	7.35	28.1	3.4	0.95	21.65

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
S7 - 1	0- 50	4.11	207.1	103.5	39.49	55.21	217	2.8	18	12.8	2.2
- 2	50- 75	1.96	125.4	81.3	9.76	63.74	134	1.2	15	13.3	0.34
- 3	75-100	1.96	223.25	34.7	13.02	51.88	192	2.8	21	12.4	1.04
- 4	100-130	1.96	284.05	212.6	37.97	100.63	357	3.6	22	17.3	2.8
- 5	130-150	1.76	87.87	291.1	18.44	62.26	297	2.4	26	13.1	2.4

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
S7 - 1	0- 50	0.11	1.8	2.72
- 2	50- 75	0.02	1.7	5.44
- 3	75-100	0.05	1.54	4.1
- 4	100-130	0.14	1.0	21.4
- 5	130-150	0.12	1.2	-

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. S 8

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
S8 - 1	0- 30	42	42	16	SiC	70	7.45	42.0	-	-	-
- 2	30- 60	45	20	35	C	94	7.8	10.0	2.2	1.0	16.8
- 3	60- 85	50	15	35	C	87	7.6	26.4	4.4	1.4	23.7
- 4	85-120	10	15	75	SL	60	7.55	36.9	4.7	1.2	12.1

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^- (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
S8 - 1	0- 30	5.8	257	203.3	56.8	85.3	320	4.0	-	-	2.8
- 2	30- 60	1.96	110	9.6	8.68	22.92	89	0.9	27	8.1	1.06
- 3	60- 85	2.10	300.2	64.8	17.36	54.84	286	3.1	29.5	14.9	2.4
- 4	85-120	1.76	32	197.5	30.38	88.92	396	3.4	18	26.1	2.0

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
S8 - 1	0- 30	0.14	1.9	6.4
- 2	30- 60	0.05	1.7	1.92
- 3	60- 85	0.12	1.3	10.1
- 4	85-120	0.10	1.1	-

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. S 9

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
S9 - 1	0- 42	45	15	40	C	80	7.65	16.9	2.6	0.8	11.6
- 2	42- 68	30	60	10	SiCL	60	7.6	21.3	2.5	0.65	13.85
- 3	68-115	35	15	50	SC	67	7.65	31.4	2.3	0.65	19.05
- 4	115-140	-	-	-	-	80	7.05	41.9	3.1	0.9	21.0

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
S9 - 1	0- 42	2.94	148.2	130.7	24.95	39.95	158	1.8	25	10.4	2.3
- 2	42- 68	2.54	275.5	7.9	36.89	49.01	197	2.1	17	14.7	2.1
- 3	68-115	2.54	323.95	104.7	26.04	65.16	337	2.9	22	10.45	2.1
- 4	115-140	4.11	296.4	291.9	45.57	136.83	407	3.5	25	12.4	2.8

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
S9 - 1	0- 42	0.115	0.95	-
- 2	42- 68	0.105	1.2	-
- 3	68-115	0.105	1.5	6.64
- 4	115-140	0.15	0.8	-

PHYSICAL AND CHEMICAL PROPERTIES FOR SOIL PROFILE No. S 10

Horizon	Depth (cm)	Clay 2 micron (%)	Silt 2-50 micron (%)	Sand 50-2000 micron (%)	Texture	Saturation (%)	pH value	Elec. Cond. (mmhos/cm)	Exchangeable Cations Na (me/100g)	K (me/100g)	Ca+Mg (me/100g)
S10 - 1	0- 60	10	60	30	SiL	50	7.7	43.45	-	-	-
- 2	60-140	45	45	10	SiC	74	7.65	43.7	3.5	1.1	14.4
- 3	140-170	25	25	50	SCL	64	7.5	38	4.0	1.3	17.7
- 4	170-200	45	45	10	SiC	80	7.45	115.5	-	-	-

Horizon	Depth (CM)	Water Saturated Soil Paste HCO_3^- (me/L)	Cl^- (me/L)	SO_4^{--} (me/L)	Ca^{++} (me/L)	Mg^{++} (me/L)	Na^+ (me/L)	K^+ (me/L)	CEC (me/100g)	ESP (%)	Organic Matter Content (%)
S10 - 1	0- 60	6.6	318.9	156.9	46.5	75.7	360	0.2	-	-	1.8
- 2	60-140	1.17	400	225.2	41.23	85.07	496	3.9	19	18.4	2.4
- 3	140-170	1.56	350	192.4	35.81	78.19	426	3.2	23	17.4	2.35
- 4	170-200	2.3	1132.8	248.9	51.4	222.6	1,100	10.0	-	-	1.8

Horizon	Depth Depth (cm)	Total N (%)	Available P (ppm)	Gypsum present
S10 - 1	0- 60	0.10	1.4	8.8
- 2	60-140	0.12	1.1	-
- 3	140-170	0.12	1.1	-
- 4	170-200	0.09	1.5	-

A-3 Three Phase of Soil and Coefficient of Water Conductivity

Three Phases of Soil and Coefficients of Water Conductivity (1)

No.	Depth	Three Phases of Soil			Apparent Specific Gravity	Moisture Ratio	Coefficient of Water Conductivity		Note
		Solid Phase (VS)	Liquid Phase (VL)	Gas Phase (VA)					
	(cm)	(%)	(%)	(%)		(%)	(cm/sec)		
1	10	37.9	61.3	0.8	1.00	61.0	6.32×10^{-4}		Uncultivated
	20	42.5	55.7	1.8	1.13	49.5	4.77×10^{-4}		
	30	41.3	55.0	3.7	1.09	50.3	5.02×10^{-4}		
	50	31.7	67.5	0.8	0.84	80.4	9.24×10^{-5}	Average	
	80	30.5	69.5	0.0	0.81	85.9	2.86×10^{04}	(4.0×10^{-4})	
2	10	43.9	54.4	1.7	1.16	46.8	2.05×10^{-3}		Uncultivated
	20	44.3	55.0	0.7	1.17	46.8	6.81×10^{-4}		
	30	34.7	65.3	0.0	0.92	71.0	7.03×10^{-4}		
	50	32.7	66.5	0.8	0.87	76.8	3.67×10^{-4}		
	80	32.7	66.9	0.4	0.87	77.2	-	(9.5×10^{-4})	
3	10	41.1	58.9	0.0	1.09	54.1	5.61×10^{-4}		Uncultivated
	20	45.7	47.1	7.2	1.21	40.6	7.84×10^{-4}		
	30	47.6	52.4	0.0	1.26	41.4	5.95×10^{-4}		
	50	46.9	53.1	0.0	1.24	42.7	7.49×10^{-4}		
	80	53.3	46.7	0.0	1.41	33.1	3.32×10^{-4}	(6.0×10^{-4})	
4	10	42.0	44.3	13.7	1.11	39.8	1.70×10^{-3}		Uncultivated
	20	43.1	43.1	13.8	1.14	37.8	6.54×10^{-4}		
	30	44.3	45.7	10.0	1.17	38.9	7.46×10^{-5}		
	50	39.4	60.6	0.0	1.04	57.9	2.57×10^{-4}		
	80	32.4	67.6	0.0	0.84	78.8	5.95×10^{-3}	(1.7×10^{-3}	

Three Phases of Soil and Coefficients of Water Conductivity (2)

No.	Depth	Three Phases of Soil: Solid Phase (VS)	Three Phases of Soil: Liquid Phase (VL)	Three Phases of Soil: Gas Phase (VA)	Apparent Specific Gravity	Moisture Ratio	Coefficient of Water Conductivity	Note
	(cm)	(%)	(%)	(%)		(%)	(cm/sec)	
5	10	38.6	58.2	3.2	1.02	56.9	5.20×10^{-4}	Cultivated
	20	39.5	60.5	0.0	1.04	57.8	1.22×10^{-4}	
	30	36.5	63.5	0.0	0.97	65.7	6.05×10^{-4}	
	50	17.9	82.1	0.0	0.48	172.8	8.05×10^{-5}	Average
	80	-	-	-	-	-	-	(3.3×10^{-4})
6	10	38.6	61.4	0.0	1.02	60.0	3.80×10^{-4}	Cultivated
	20	37.1	62.3	0.6	0.98	63.4	4.17×10^{-4}	
	30	39.7	60.3	0.0	1.05	57.3	3.15×10^{-4}	
	50	41.0	59.0	0.0	1.09	54.3	8.81×10^{-5}	
	80	47.5	52.5	0.0	1.26	41.7	5.15×10^{-4}	(2.5×10^{-4})
7	10	39.6	56.4	4.0	1.05	53.8	4.64×10^{-4}	Cultivated
	20	39.4	60.6	0.0	1.04	58.1	6.25×10^{-4}	
	30	39.8	60.2	0.0	1.05	57.2	9.74×10^{-5}	
	50	31.2	67.6	1.2	0.83	81.8	3.82×10^{-4}	
	80	27.9	72.1	0.0	0.74	97.6	4.11×10^{-4}	(4.0×10^{-4})
8	10	42.2	55.4	2.4	0.12	49.5	2.51×10^{-4}	Caltivated
	20	34.3	65.7	0.0	0.91	72.3	3.38×10^{-4}	
	30	27.2	72.8	0.0	0.72	101.0	7.29×10^{-5}	
	50	40.2	59.8	0.0	1.07	56.1	2.85×10^{-5}	
	80	41.8	58.2	0.0	1.11	52.5	2.99×10^{-4}	(2.0×10^{-4})

Three Phases of Soil and Coefficients of Water Conductivity (3)

No.	Depth	Three Phases of Soil			Apparent Specific Gravity	Moisture Ratio	Coefficient of Water Conductivity	Note
		Solid Phase (VS)	Liquid Phase (VL)	Gas Phase (VA)				
	(cm)	(%)	(%)	(%)		(%)	(cm/sec)	
9	10	34.2	56.3	9.5	0.90	62.5	1.98×10^{-4}	Cultivated
	20	38.9	59.5	1.6	1.03	57.7	4.62×10^{-4}	
	30	44.5	55.5	0.0	1.18	47.2	2.73×10^{-4}	
	50	35.8	64.2	0.0	0.95	67.5	8.91×10^{-5}	
	80	43.4	56.6	0.0	1.15	49.2	2.05×10^{-4} (2.3×10^{-4})	
10	10	26.9	60.9	12.2	0.71	85.6	8.97×10^{-3}	Cultivated
	20	27.2	72.1	0.7	0.72	99.8	3.87×10^{-4}	
	30	21.8	78.2	0.0	0.58	135.3	4.56×10^{-4}	
	50	25.8	74.2	0.0	0.68	109.2	1.56×10^{-4}	
	80	19.9	80.1	0.0	0.53	151.7	5.60×10^{-4} (2.1×10^{-3})	
11	10	28.7	56.7	14.6	0.77	74.6	1.58×10^{-3}	Uncultivated
	20	45.9	51.1	3.0	1.22	42.1	2.92×10^{-4}	
	30	38.3	57.2	4.5	1.01	56.4	3.79×10^{-4}	
	50	37.9	62.1	0.0	1.01	61.8	2.03×10^{-4}	
	80	34.9	65.1	0.0	0.93	70.4	7.17×10^{-4} (6.3×10^{-4})	
12	10	36.0	58.0	6.0	0.95	60.8	2.68×10^{-3}	Cultivated
	20	42.0	54.8	3.2	1.11	49.2	4.02×10^{-3}	
	30	41.9	58.1	0.0	1.11	52.3	4.21×10^{-3}	
	50	38.1	61.9	0.0	1.01	61.3	1.29×10^{-3}	
	80	40.8	59.2	0.0	1.09	54.7	8.32×10^{-4} $(2.6 \times 10^{-3}$	

Three Phases of Soil and Coefficients of Water Conductivity (4)

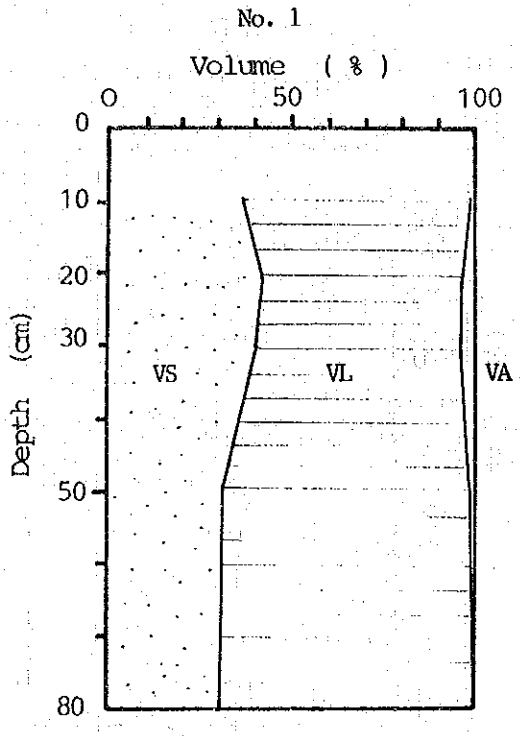
No.	Depth	Three Phases of Soil			Apparent Specific Gravity	Moisture Ratio	Coefficient of Water Conductivity		Note
		Solid Phase (VS)	Liquid Phase (VL)	Gas Phase (VA)					
	(cm)	(%)	(%)	(%)		(%)	(cm/sec)		
13	10	38.4	59.6	2.0	1.02	58.6	1.32×10^{-3}		Uncultivated
	20	41.8	57.0	1.2	1.11	51.4	4.95×10^{-4}		
	30	44.0	53.9	2.1	1.16	46.2	6.23×10^{-4}		
	50	44.3	54.3	1.4	1.17	46.3	3.08×10^{-4}		
	80	-	-	-	-	-	-	(6.9×10^{-4})	
14	10	45.5	52.5	2.0	1.21	43.5	1.71×10^{-4}		Cultivated
	20	39.7	59.5	0.8	1.05	56.6	2.02×10^{-4}		
	30	41.5	58.5	0.0	1.10	53.2	7.11×10^{-5}		
	50	44.3	55.7	0.0	1.17	47.4	5.50×10^{-5}		
	80	41.8	58.2	0.0	1.11	52.6	1.09×10^{-4}	(1.2×10^{-4})	
15	10	38.7	50.3	11.0	1.02	49.1	3.83×10^{-4}		Cultivated
	20	31.6	68.4	0.0	0.84	81.8	-		
	30	36.9	63.1	0.0	0.98	64.7	8.98×10^{-4}		
	50	36.0	64.0	0.0	0.95	67.1	1.08×10^{-4}		
	80	41.3	58.7	0.0	1.09	53.7	-	(4.6×10^{-4})	
16	10	43.2	56.8	0.0	1.14	49.7	2.04×10^{-4}		Uncultivated
	20	37.2	62.8	0.0	0.99	63.7	1.39×10^{-4}		
	30	40.2	59.8	0.0	1.07	56.2	8.57×10^{-5}		
	50	-	-	-	-	-	-		
	80	-	-	-	-	-	-	(1.4×10^{-4})	

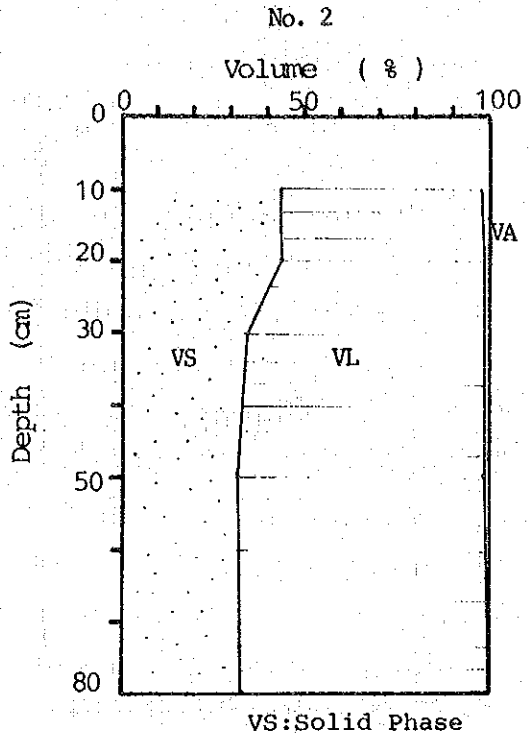
Three Phases of Soil and Coefficients of Water Conductivity (5)

No.	Depth	Three Phases of Soil			Apparent Specific Gravity	Moisture Ratio	Coefficient of Water Conductivity	Note
		Solid Phase (VS)	Liquid Phase (VL)	Gas Phase (VA)				
	(cm)	(%)	(%)	(%)		(%)	(cm/sec)	
17	10	43.2	56.8	0.0	1.14	49.7	9.14×10^{-3}	Uncultivated
	20	37.2	62.8	0.0	0.99	63.7	2.51×10^{-3}	
	30	40.2	59.8	0.0	1.07	56.2	5.28×10^{-3}	
	50	-	-	-	-	-	- Average	
	80	-	-	-	-	-	- (5.6×10^{-3})	
18	10	58.8	41.2	0.0	1.56	26.4	4.63×10^{-4}	Uncultivated
	20	48.9	51.1	0.0	1.30	40.2	2.04×10^{-3}	
	30	51.8	47.8	0.4	1.37	34.8	1.42×10^{-4}	
	50	53.3	46.7	0.0	1.41	33.2	-	
	80	55.2	44.8	0.0	1.46	30.6	- (8.8×10^{-4})	

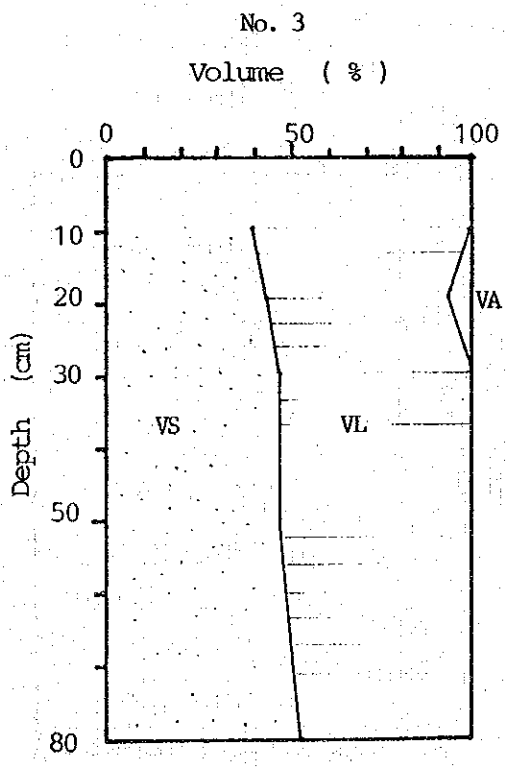
A-4 Three Phase of Soil

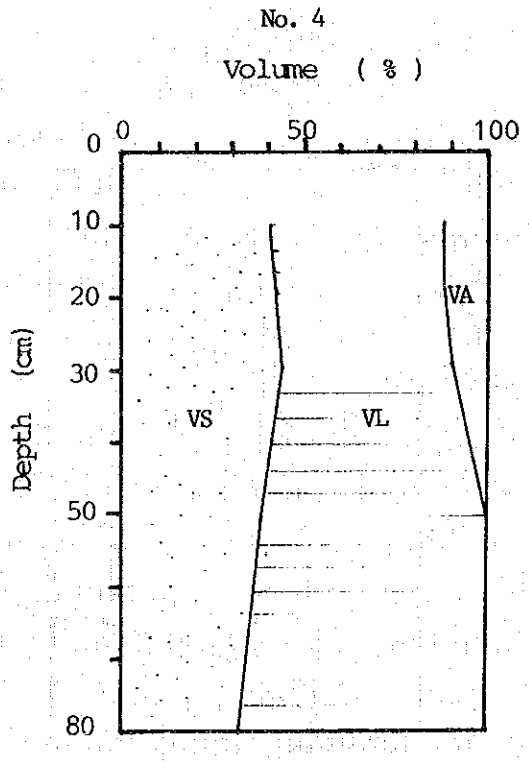
Three Phase of Soil



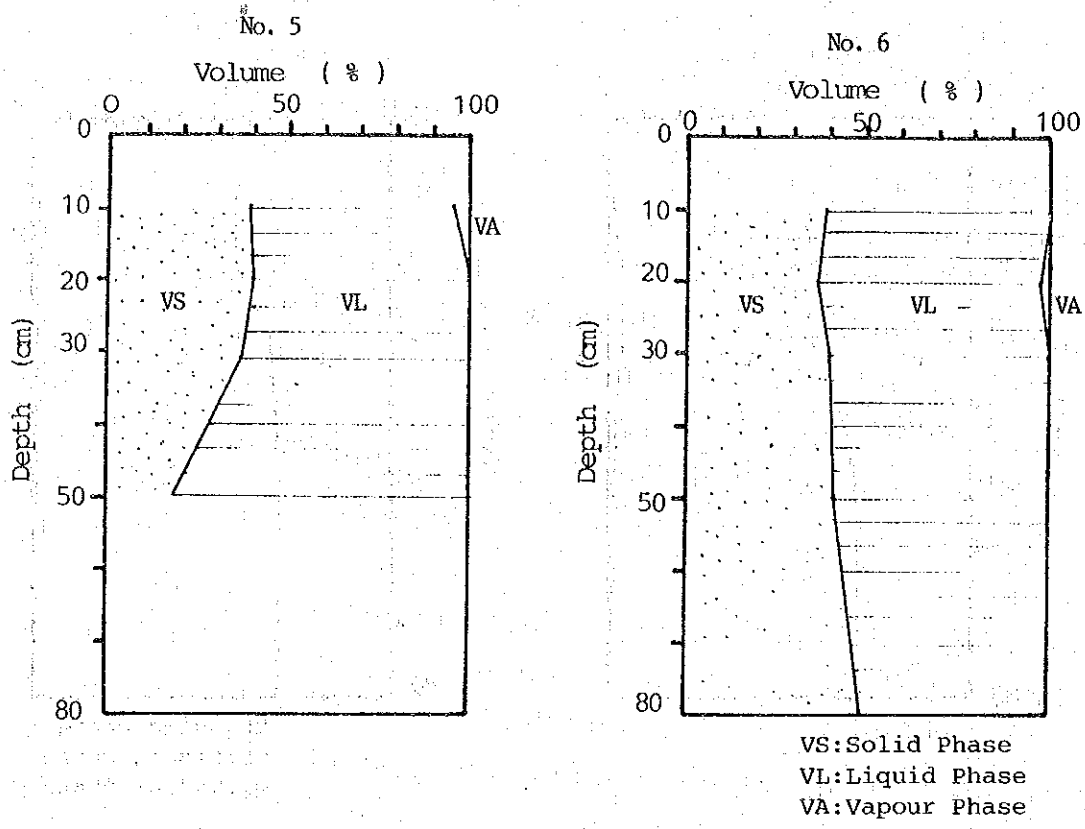


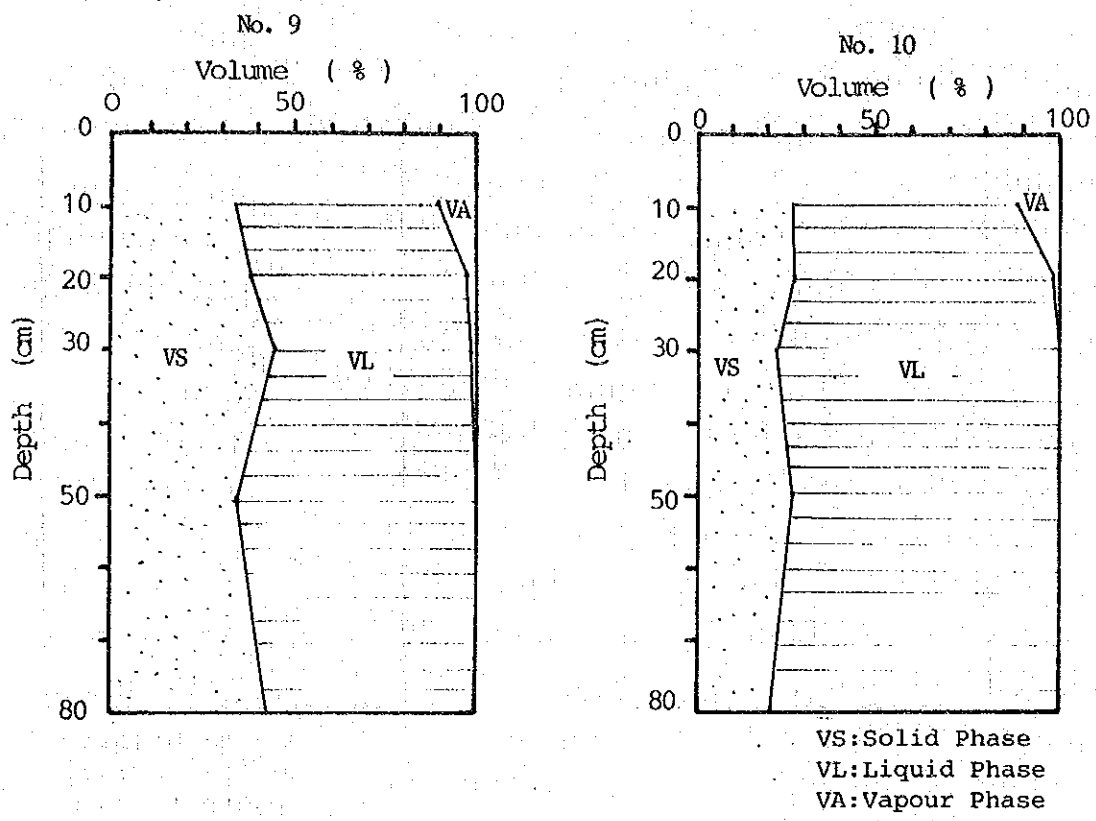
VS:Solid Phase
VL:Liquid Phase
VA:Vapour Phase



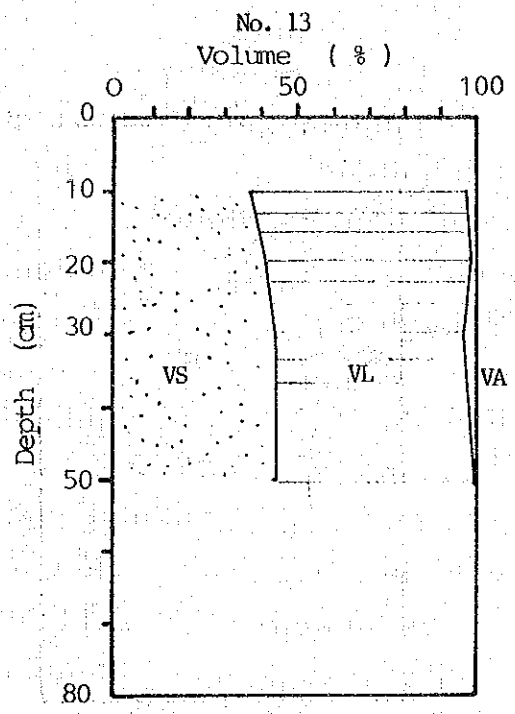


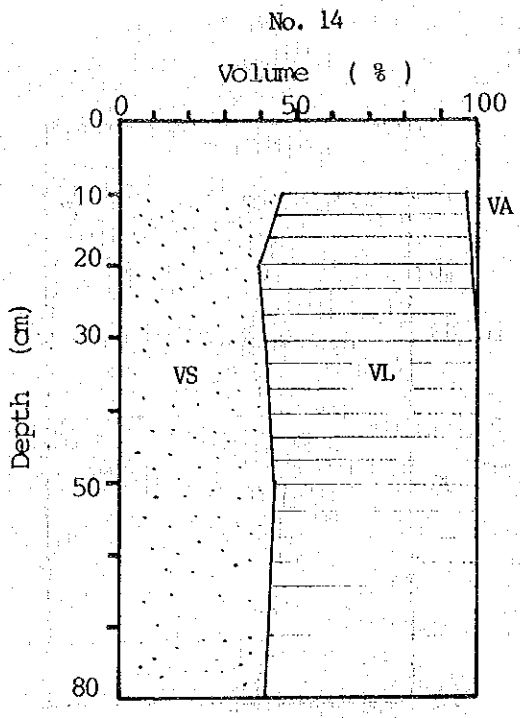
Three Phase of Soil



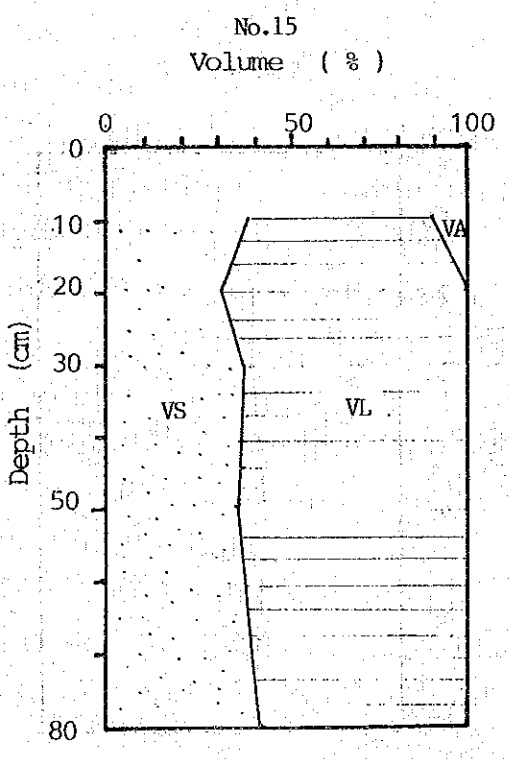

No. 9
Volume (%)
0
50
100
Depth (cm)
10
20
30
50
80
VA
VS
VL
No. 10
Volume (%)
VS:Solid Phase
VL:Liquid Phase
VA:Vapour Phase
No. 11
Volume (%)
No. 12
Volume (%)

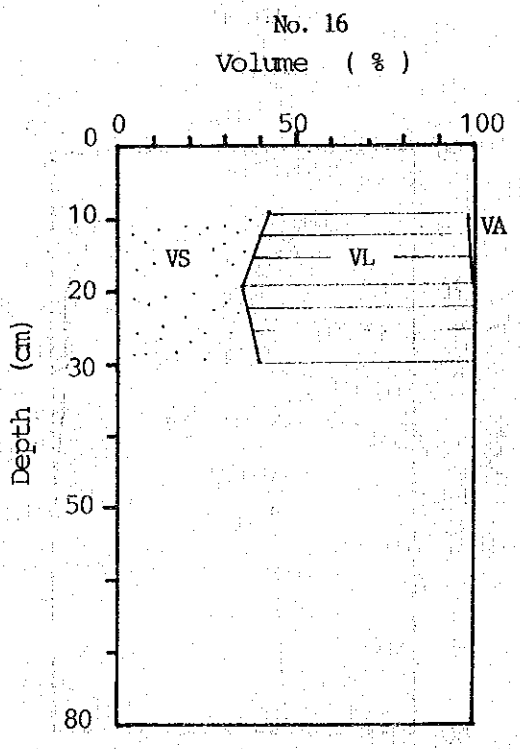
Three Phase of Soil



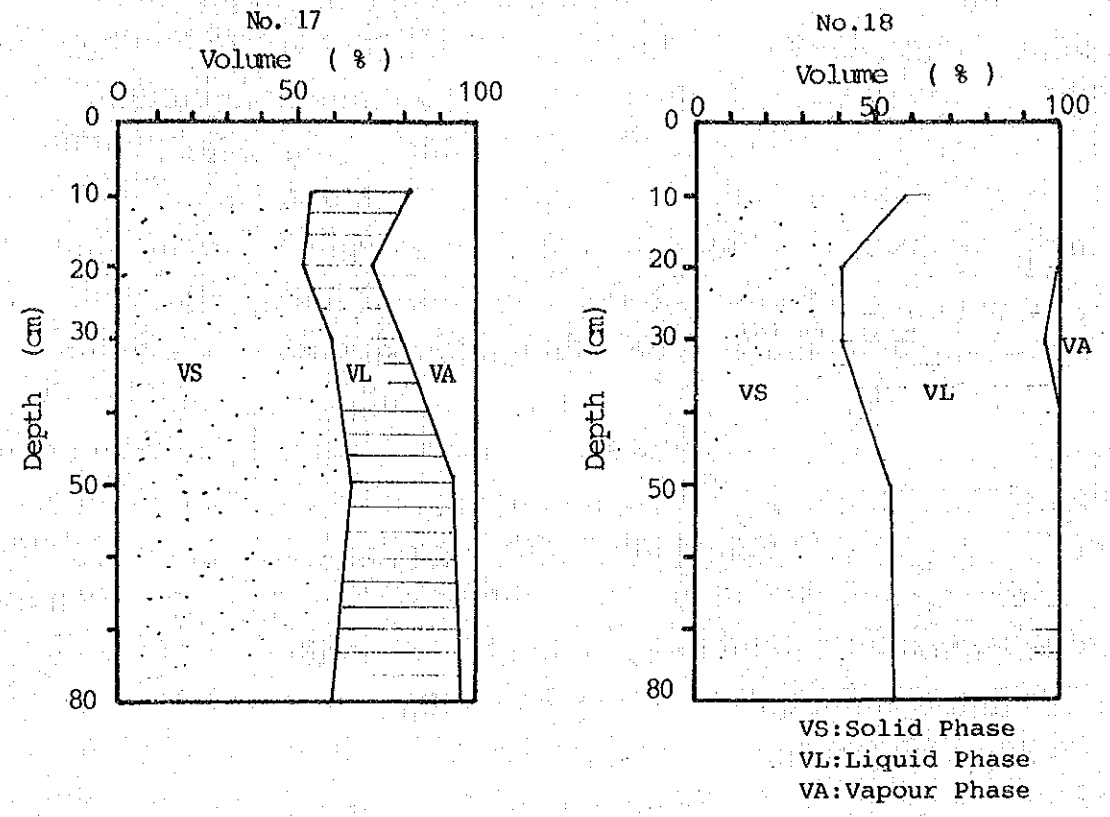


VS: Solid Phase
VL:Liquid Phase
VA:Vapour Phase



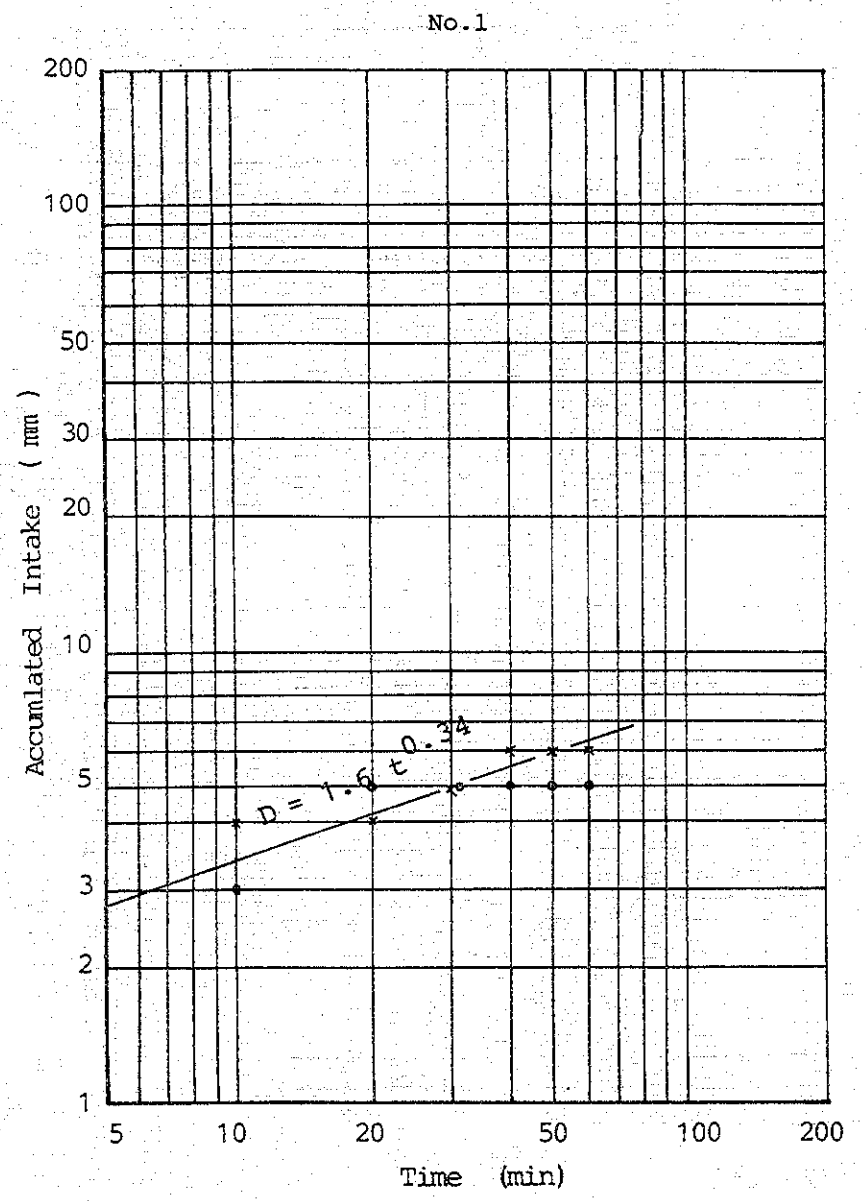


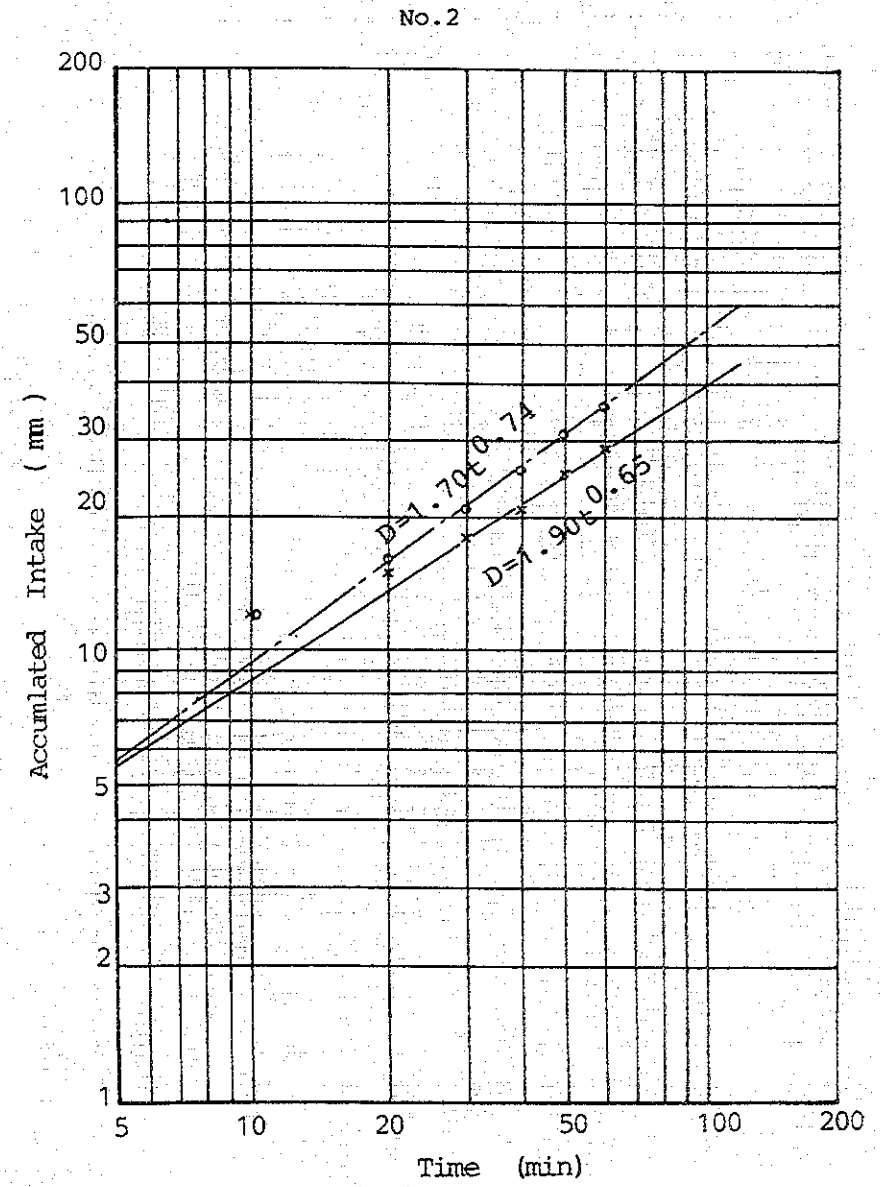
Three Phase of Soil



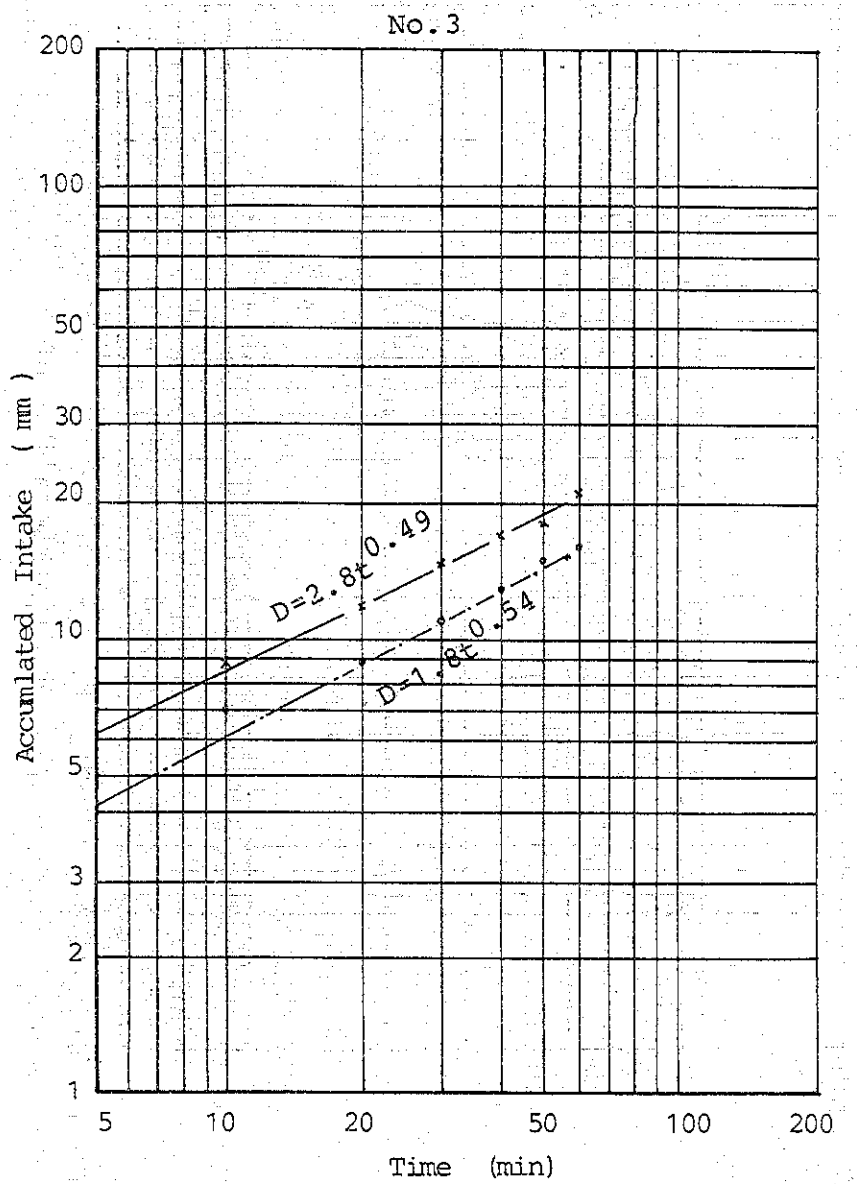
A-5 Results of Cylinder Intake Rate Test

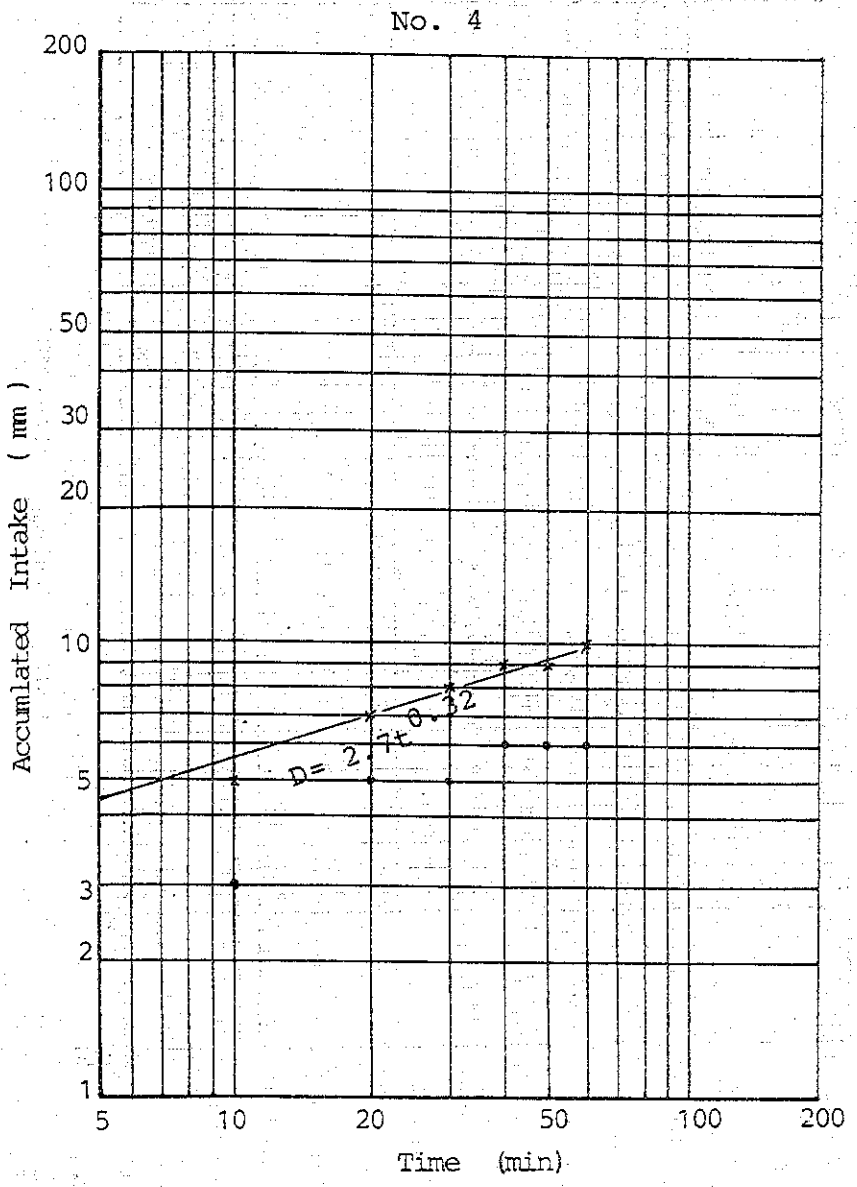
Cylinder Intake Rate



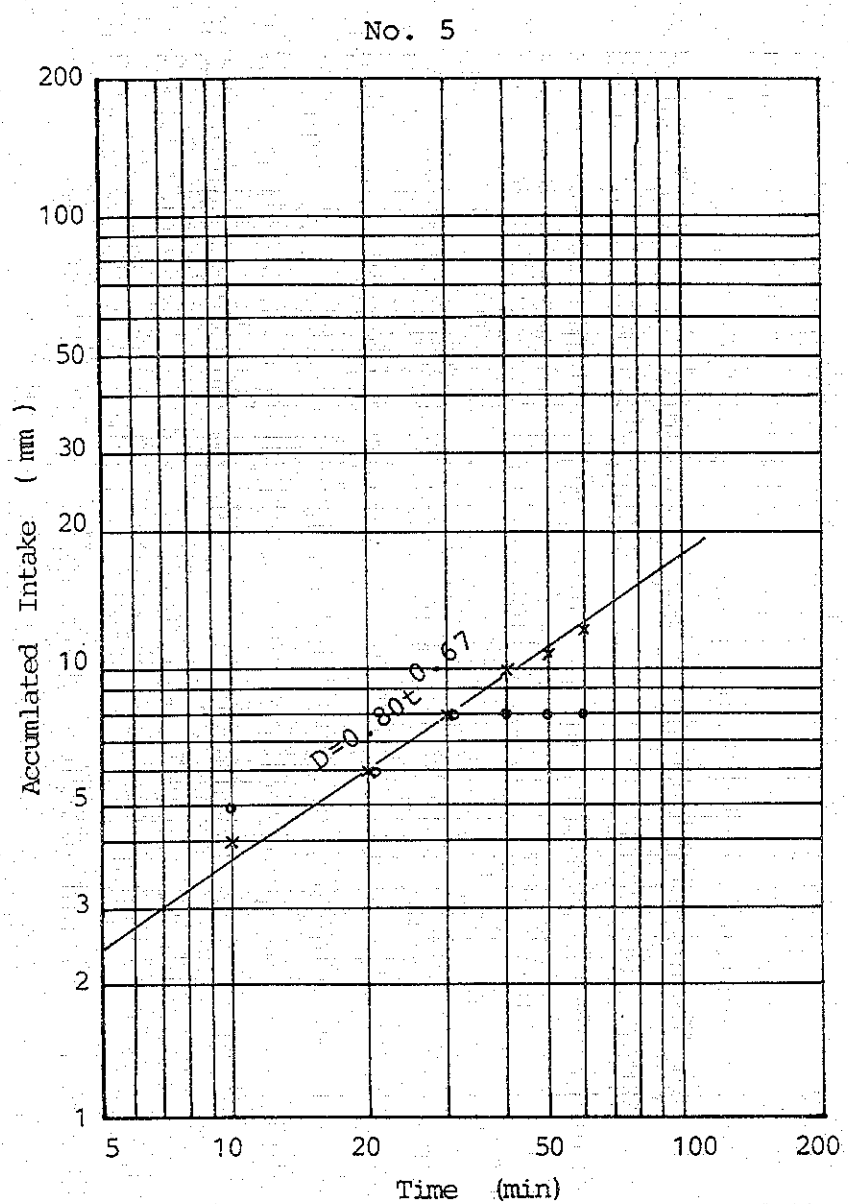


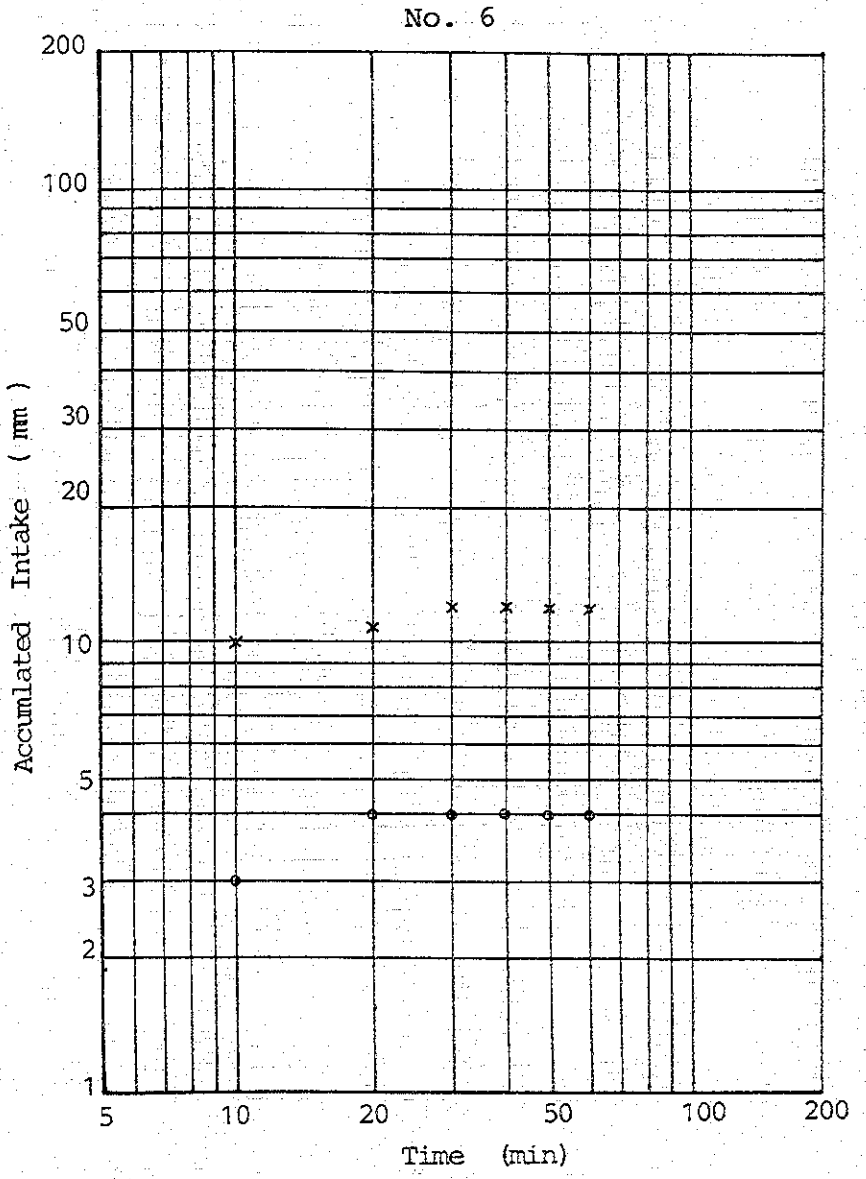
Cylinder Intake Rate





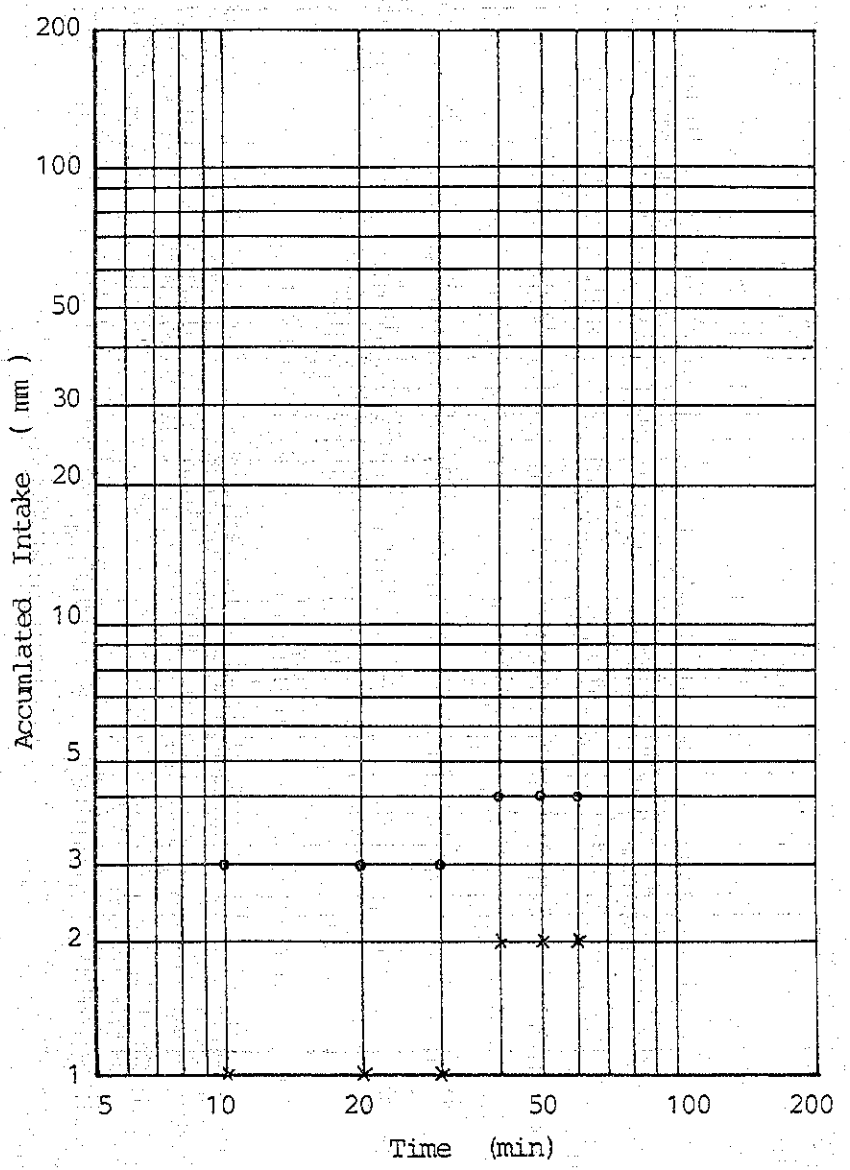
Cylinder Intake Rate





Cylinder Intake Rate

NO. 7



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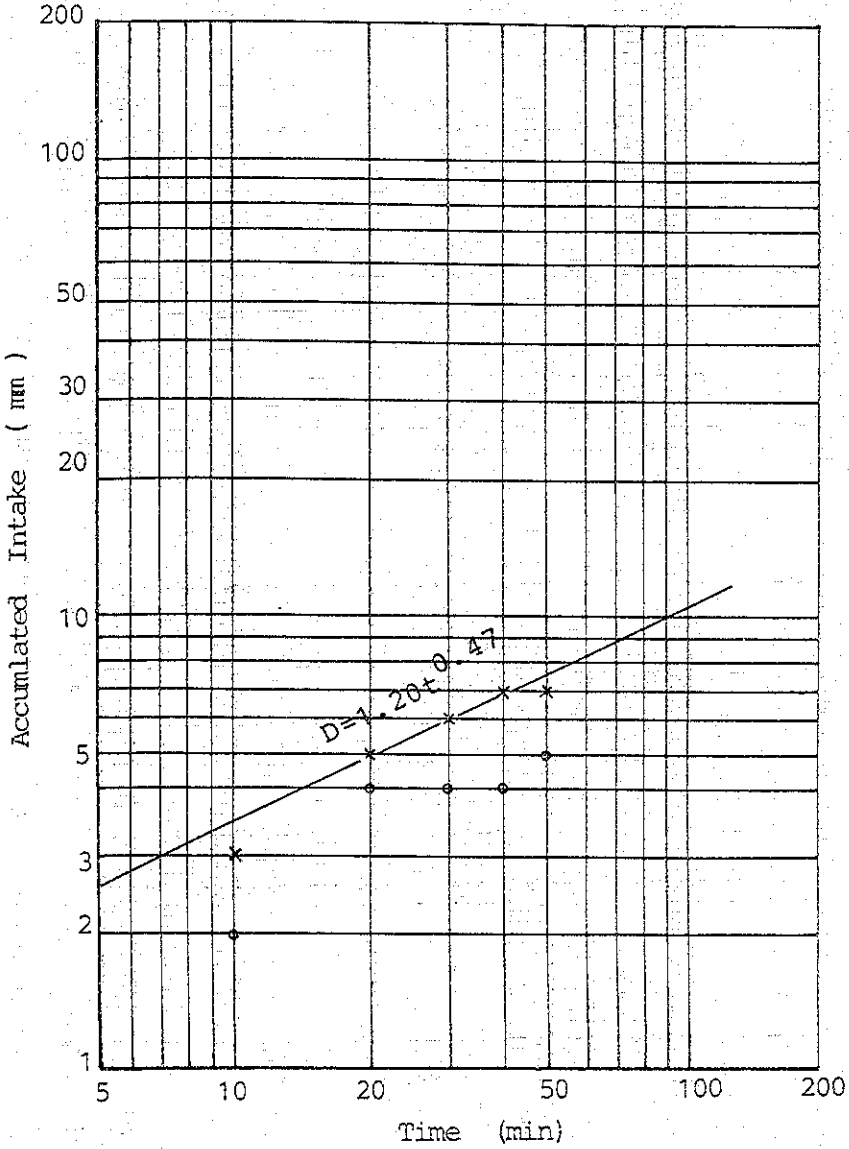

Cylinder Intake Rate

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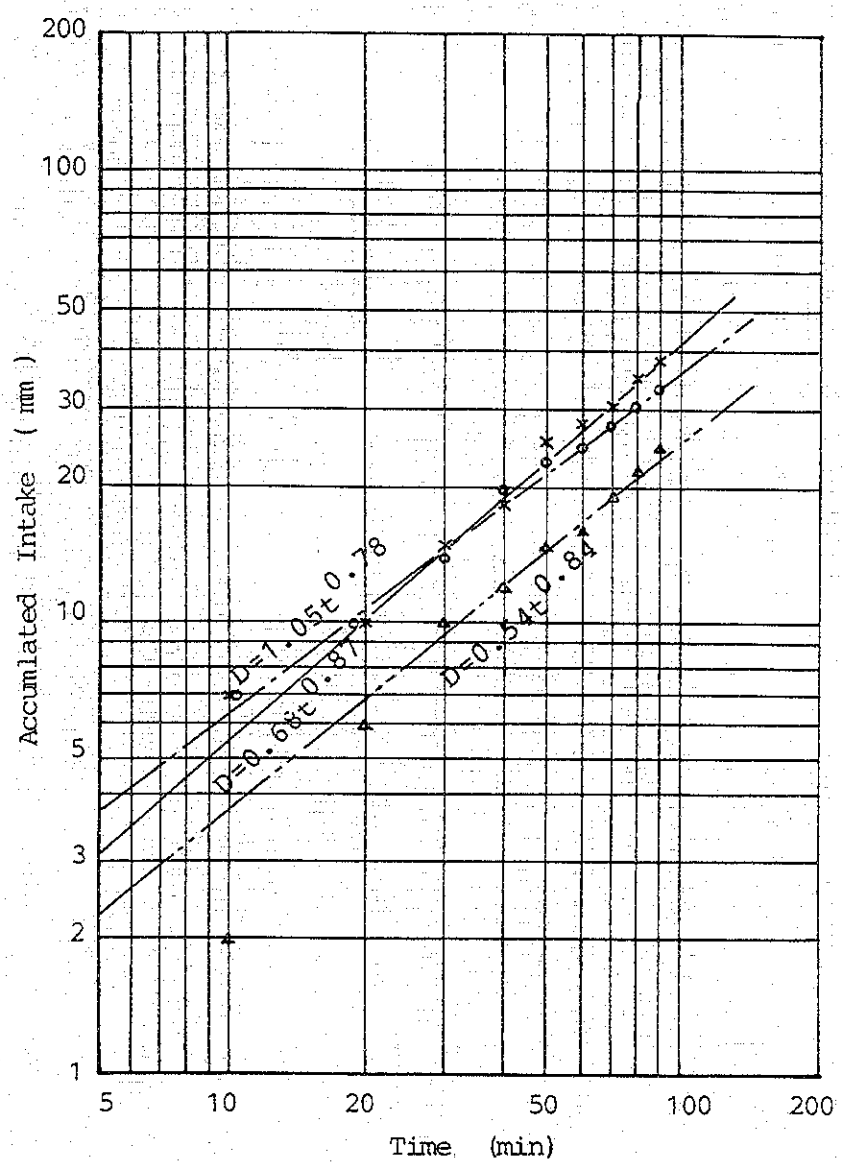

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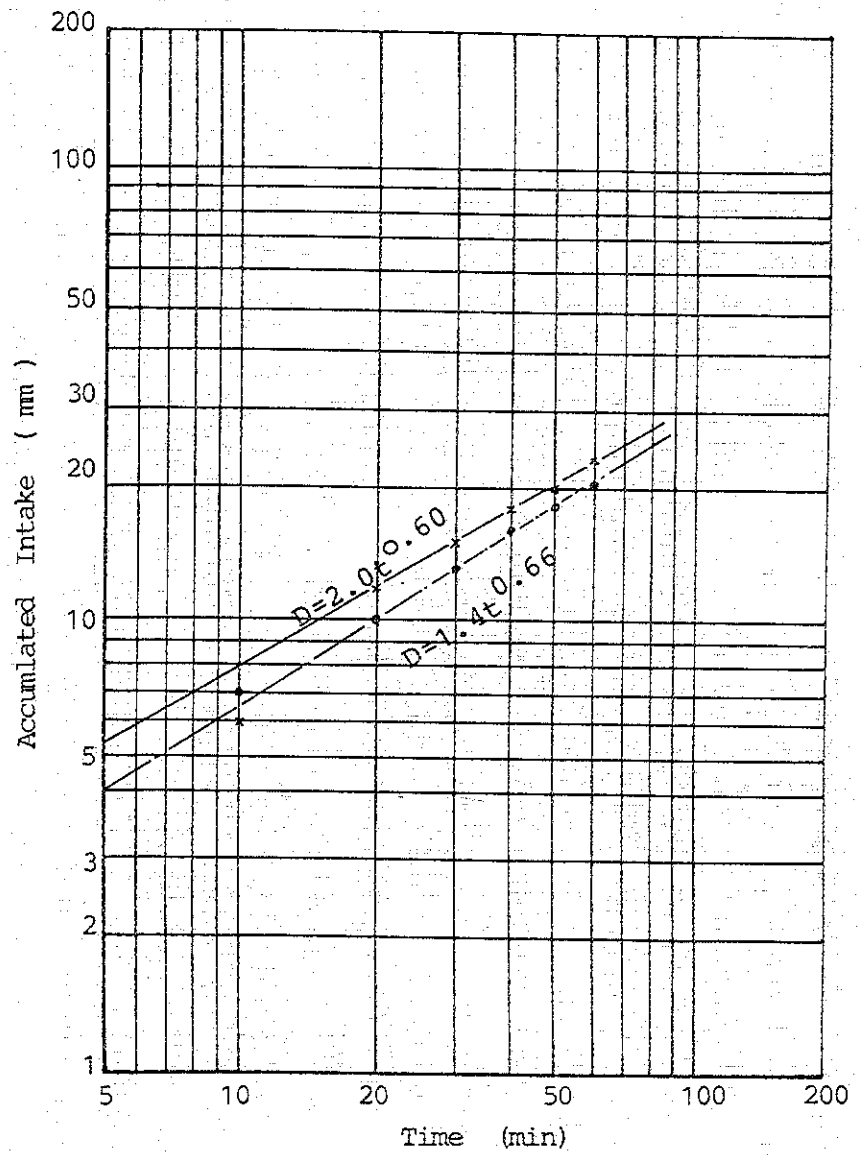

Cylinder Intake Rate

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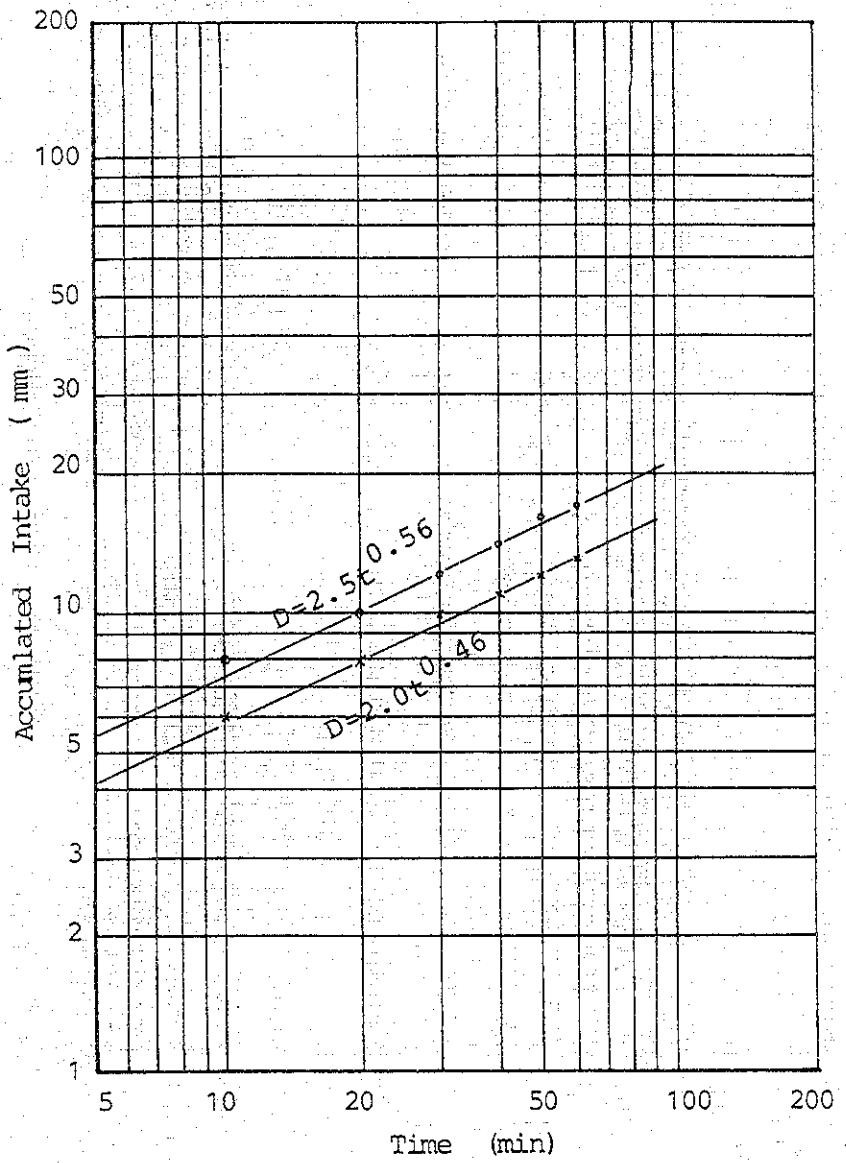

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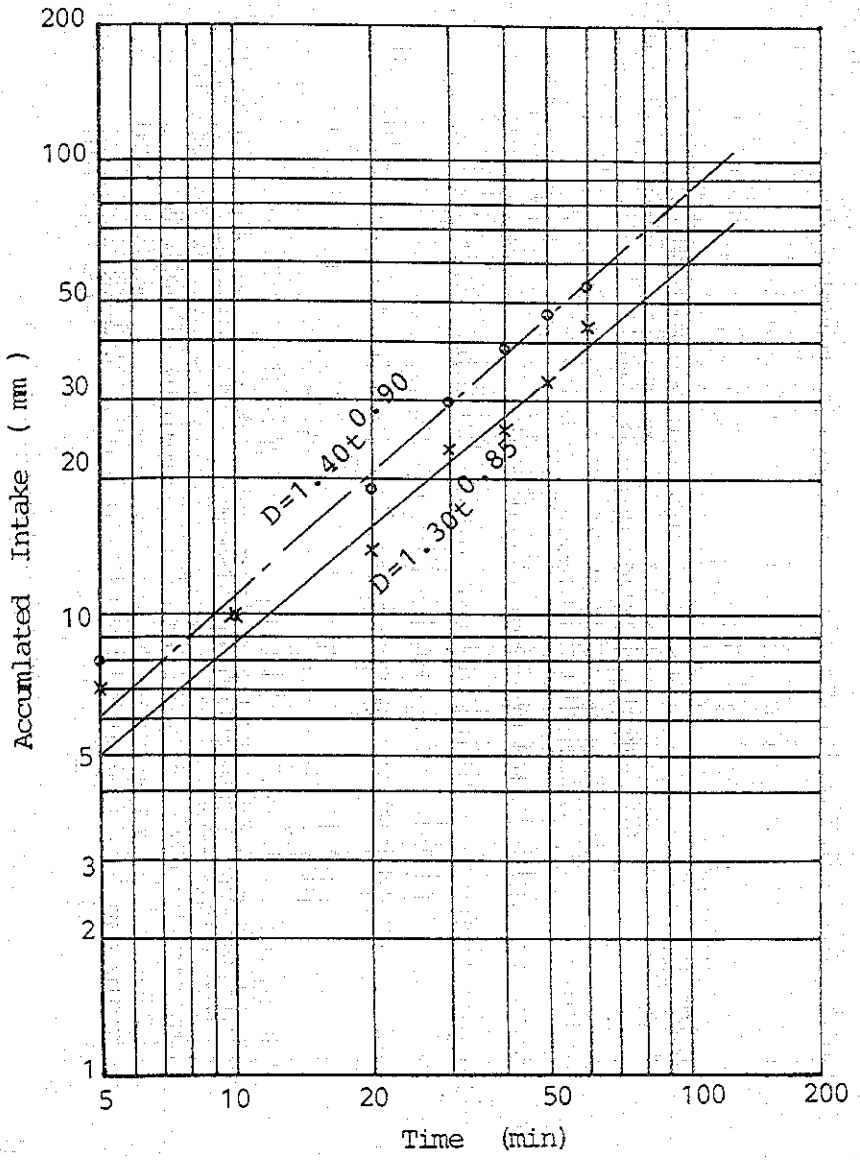
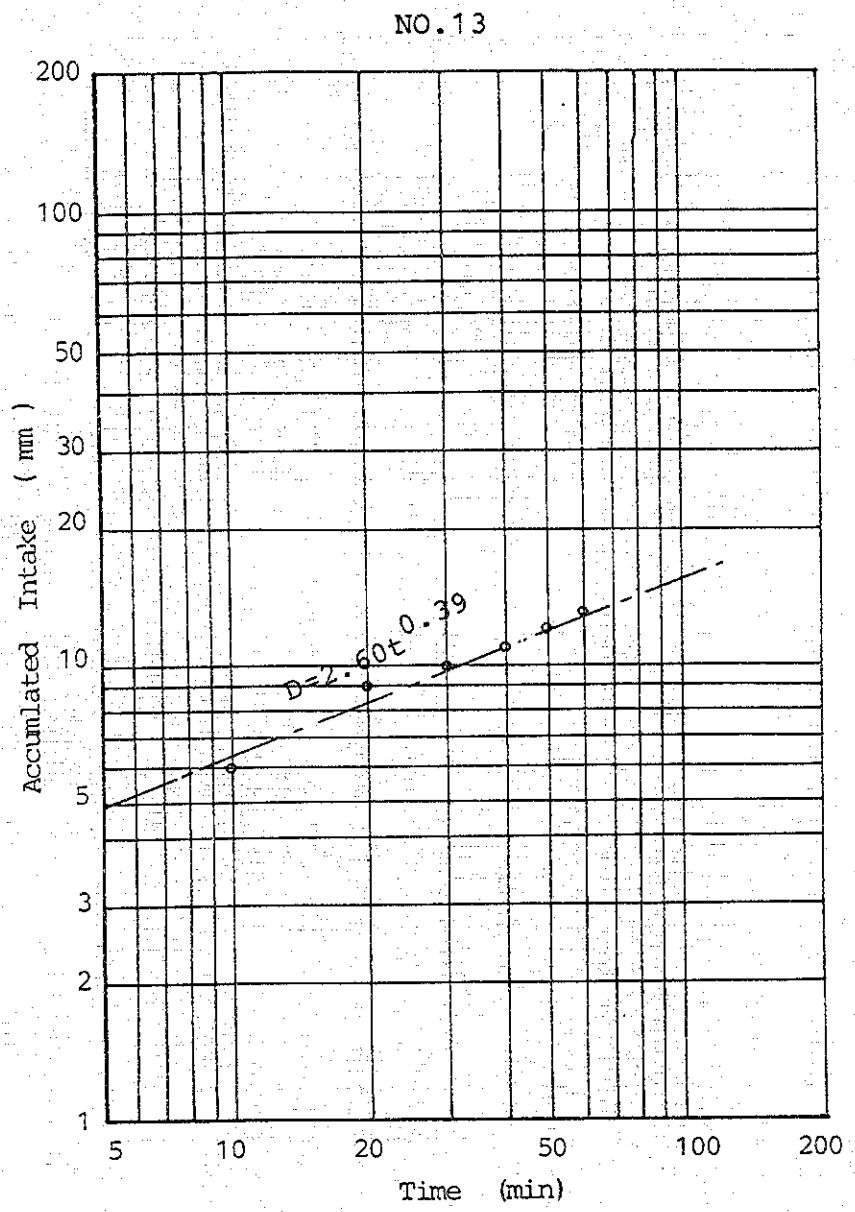
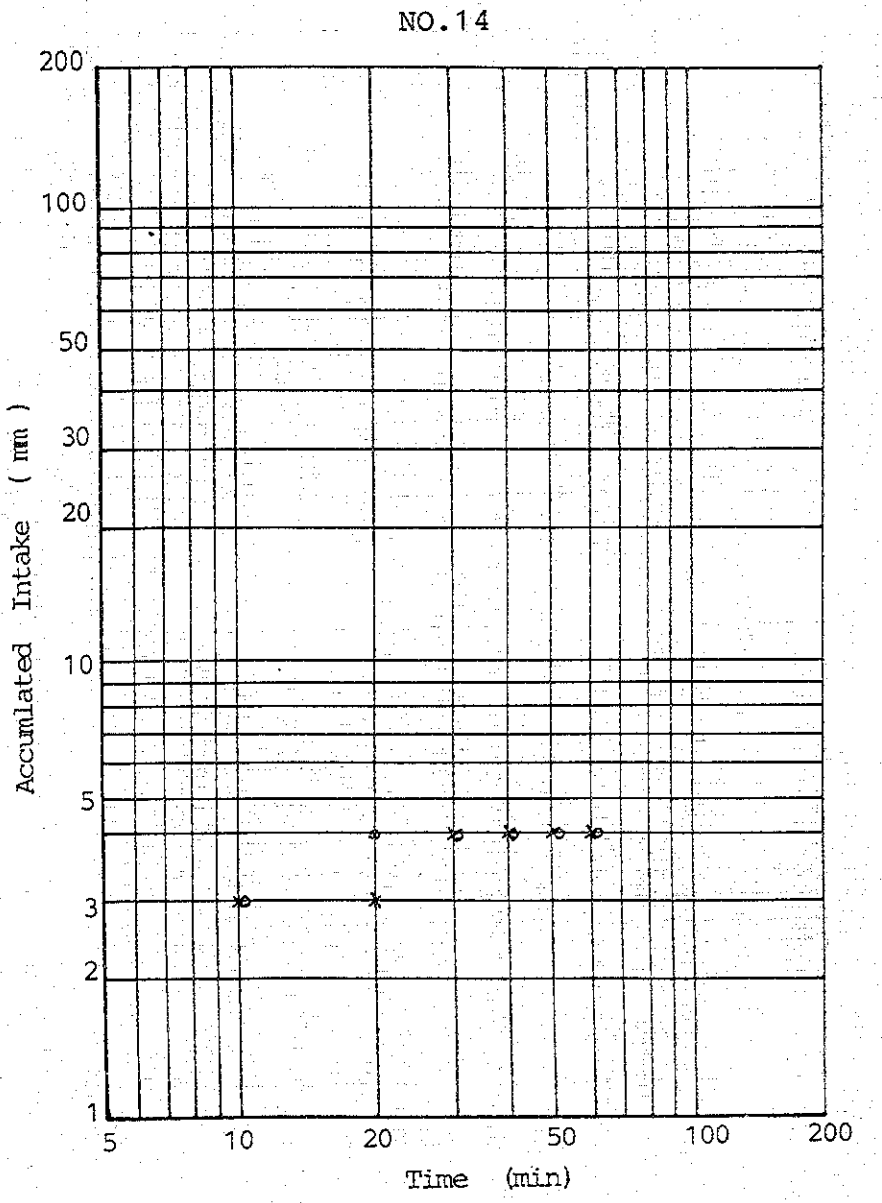
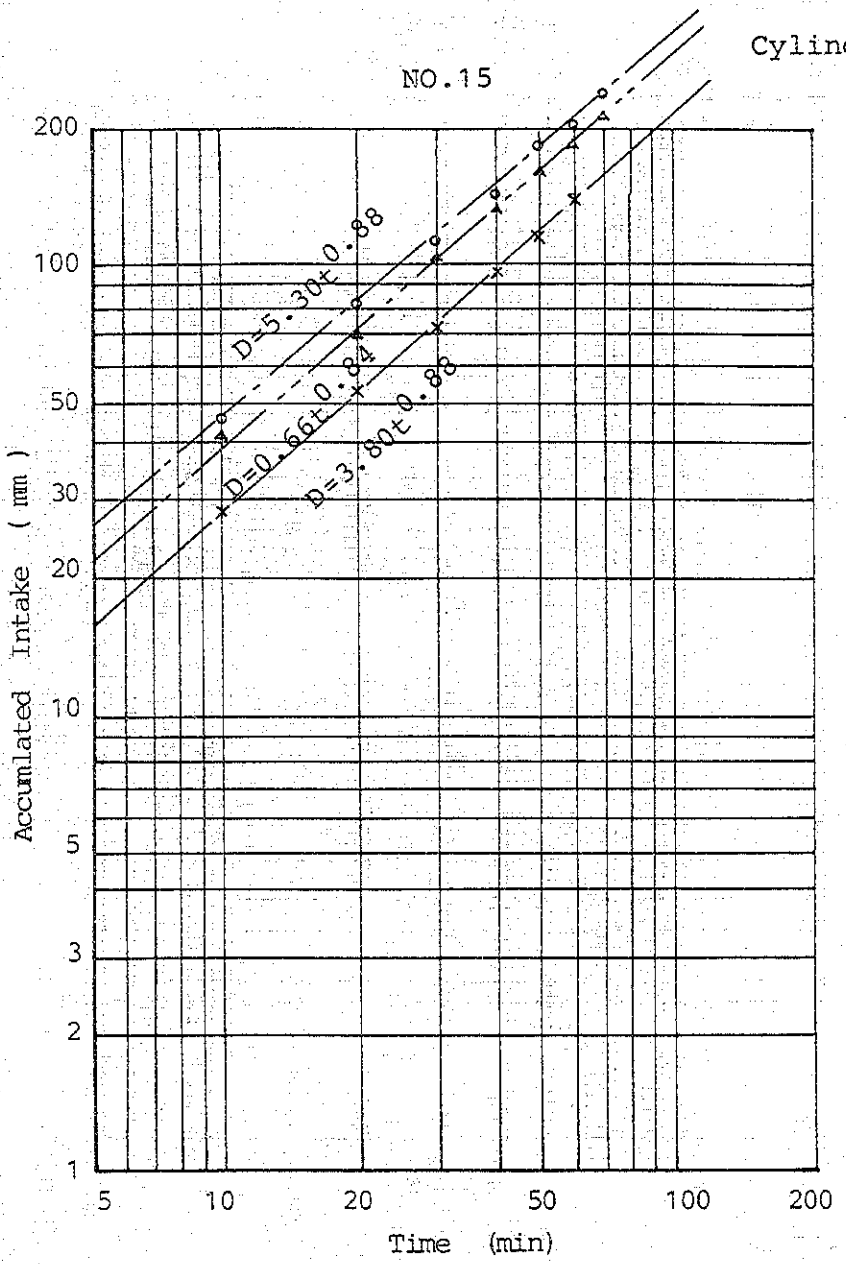


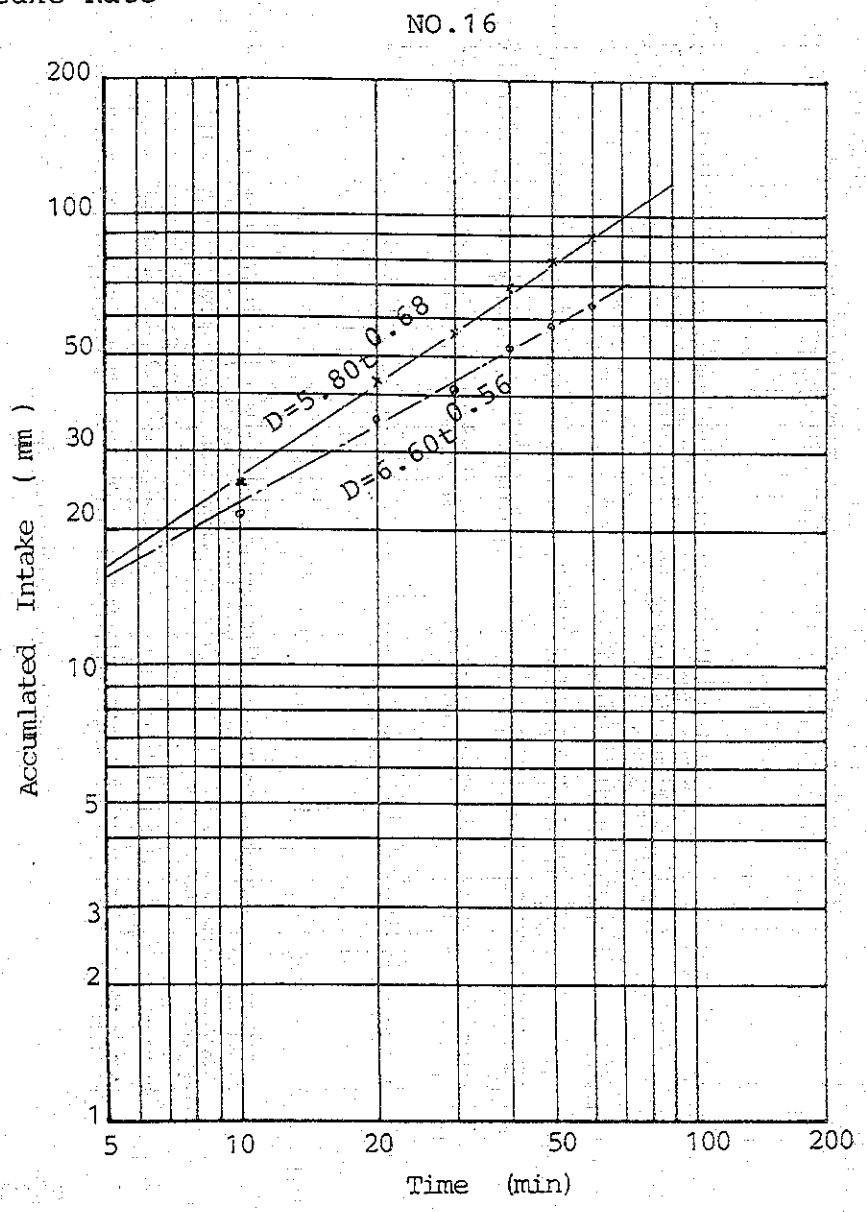
Cylinder Intake Rate



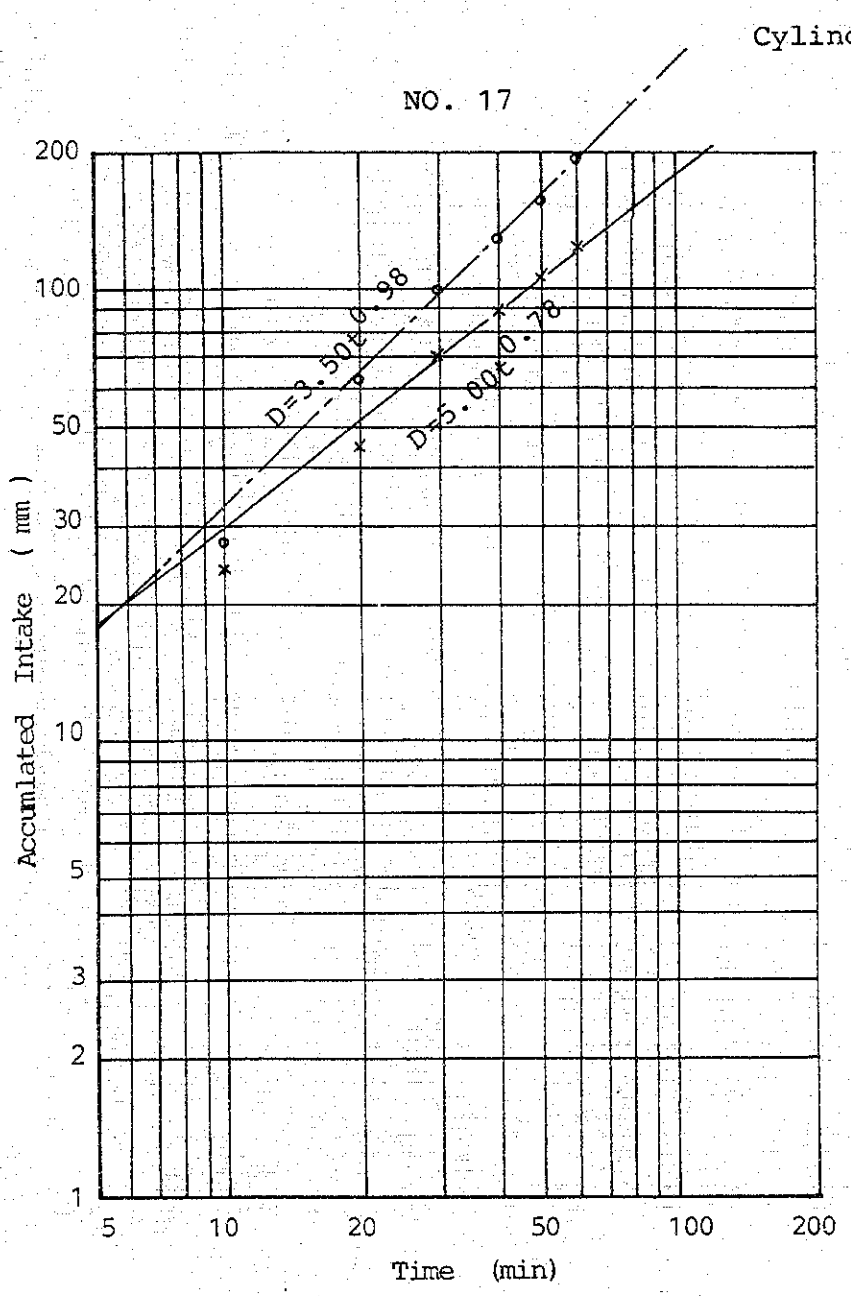


Cylinder Intake Rate





Cylinder Intake Rate



A- 6 Soil Profiles by Boring Survey

Figure N° _____ Project MANZALA LAKES

Borehole N° E - 1 Project N° 100 - M - JT - 83

Date 18/7/1983 Client JICA TEAM

Sheet 1 Of 1

Description	depth (m)	Sample	Legend	Strata Change	N / Q_u	N°Of Blows (N) (S.P.T.) Dep m
Brown to gray agryculuture clay.	1.0	A				
		UT			29	1
	2.0			2.00		2
Dark gray clay some silt.		A				
Thin layer of gray meduim sand	3.0	U.T		3.00	21	3
				3.50		
	4.0	SS			4	4
Dark gray very soft silty clay	5.0	UT			18	5
	6.0	UT			22	6
	7.0	UT			19	7
				7.50		
Dark grey soft clay trace of silt.	8.0	UT			39	8
Dark gray silty clay, some broken shells.	9.0	U.T		9.00	34	9
	10.0	UT		10.50	54	10

29

GEO GROUP
16 Moh. Salah St. Dokky

Ground Water At 10.60 m After 24 Hour

At m After Hour

Ground Level m

Figure No. _____ Project MANZALA LAKE

Bore Hole No E - 2 Project No 100 - M - JT - 83

Date 27/7/1983 Client JICA TEAM

Sheet 1 Of 1

Description	depth (m)	Sample	Legend	Strata Change	N / Q_u	No Of Blows (N) (S.P.T.) Depth ms
Grey to light brown silty clay.	1.0	A				0.55
		A		1.80	5	1
	2.0	SS				2
Light brown silty clay trace, of fine sand.		A		2.50		
	3.0	SS			2	3
		A				
		SS			1	4
Dark grey very soft clay.	4.0	A				
		SS			1	5
	5.0	A				
		SS			2	6
	6.0	A		6.00		
		SS			2	7
Dark gray very soft clay.	7.0	A				
Trace of silt.		SS			3	8
	8.0	A				
		SS			2	9
	9.0	A				
		SS			2	10
	10.0					

GEO GROUP
16 Moh. Salah St. Dokky

Ground Water At 6.75 m After 24.00 Hour

At m After Hour

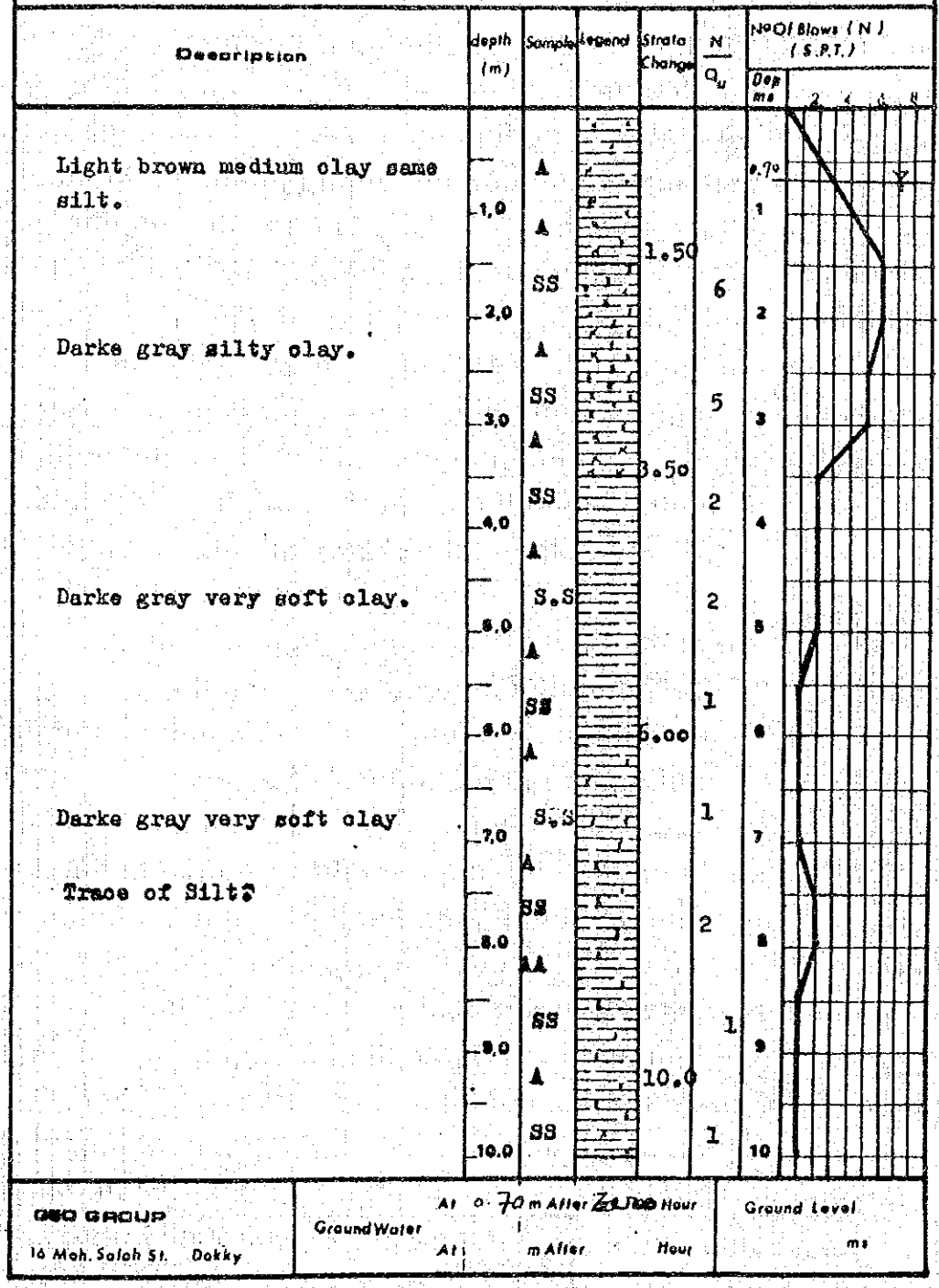
Ground Level ms

Figure N° _____ Project MANZALA LAKE

Borehole No E - 3 Project N° 100 - M - JT - 83

Date 26/7/1983 Client JICA TEAM

Sheet 1 Of 1



GEO GROUP
16 Moh. Saleh St. Dokky

Ground Water At 0.70 m After 24 Hour

At m After Hour

Ground Level m

Figure N° _____ Project MANZALA LAKE

Borehole N° E - 4 Project N° 100/A/J/83

Date 21/7/1983 Client JICA TEAM

Sheet 1 Of 1

Description	Depth (m)	Sample	Legend	Strata Change	N / Q_u	No Of Blows (N) (S.P.T.) Deg ms
Dark gray soft agryculture Clay.		A				
	1.0	UT		1.20	21	1
Light Brown to gray silty Clay.	2.0	UT			4	2
	3.0	UT		3.00	5	3
Dark gray Silty Clay some Brokn shells.	4.0	UT		4.00	11	4
	5.0	UT			10	8
Dark gray very soft Clay	6.0	UT			12	8
	7.0	UT		7.00	11	7
	8.0	UT			13	8
Dark gray soft Clay trace of Silt.	9.0	UT			10	8
	10.0	UT			13	10
					13	

GEO GROUP
16 Moh. Salah St. Dokky

Ground Water At 0.75 m After 2.00 Hour

Ground Level m

Figure N° _____ Project MANZALA LAKE

Borehole N° E - 5 Project N° 100 - M - JT - 83

Date 3/8/1983 Client JICA TEAM

Sheet 1 Of 1

Description	Depth (m)	Sample	Legend	Strata Change	N / Q_u	No. of Blows (N) (S.P.T.) Dep. m
Light brown silty clay.		A		0.30		0.15
Layer of broken shells.	1.0	A		1.50		1
		SS			6	
	2.0	A				2
Brown to dark soft clay, organic matter.		SS			4	
	3.0	A		3.00		3
Dark gray soft clay.		SS			3	
	4.0	A		4.00		4
		SS			2	
Dark gray very soft clay little of silt.	5.0	A				5
		SS			1	
	6.0	A		6.00		6
		SS			7	
	7.0	A				7
Dark gray sandy silt little of clay.		SS			6	
	8.0	A		8.00		8
Dark gray silty sand trace of clay		SS			4	
	9.0	A				9
		SS			7	
	10.0			10.00		10

GSO GROUP
16 Moh. Salah St. Dokky

Ground Water At 0.25 m After 2 Days Hour

At m After Hour

Ground Level m.s

Figure N° _____ Project MANZALA LAKE

Borehole No S - 1 Project N° 100 - M - JT - 83

Date 7/8/1983 Client JICA TEAM

Sheet 1 Of 1

Description	depth (m)	Sample	Level	Strata Change	N / Q_u	No Of Blows (N) (C.P.T.) Deg. cm
Light brown silty clay.	1.0	A				0.30
		A				1
		SS		2.00	7	2
Brown to dark gray medium clay	2.0	A				
	3.0	SS		3.00	4	3
		A				
Dark gray soft clay trace of silt.	4.0	SS		4.00	3	4
		A				
	5.0	SS			2	5
Dark gray very soft clay.		A				
	6.0	SS		6.00	1	6
		A				
		SS			3	7
Dark gray soft clay trace of silt.	7.0	A				
		SS		8.00	2	8
	8.0	A				
		SS			3	9
Dark gray soft siltyclay.	9.0	A				
	10.0	SS		10.00	6	10

GEO GROUP
16 Moh. Salah St. Dokky

Ground Water At 0.30 m After 2.00 Hour
At m After Hour

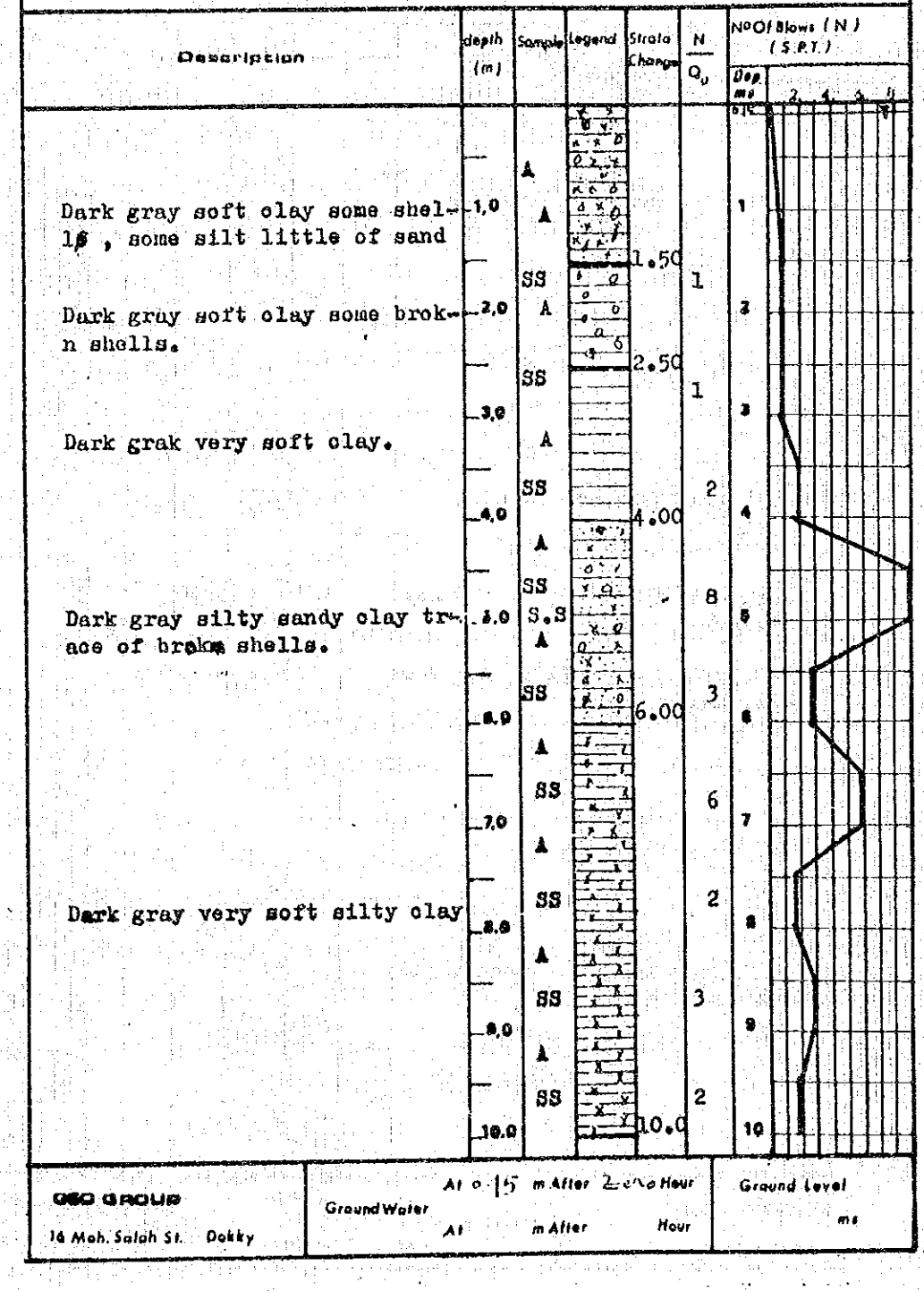
Ground Level m

Figure N° _____ Project MANZALA LAKE

Borehole N° S - 2 Project N° 100 - M - JT - 83

Date 1/8/1983 Client JICA TRAM

Sheet 1 Of 1



GEO GROUP
16 Moh. Salah St. Dokky

Ground Water At 0.15 m After Zero Hour

At m After Hour

Ground Level m

Figure N° _____ Project MANZALA LAKE

BoreHole No S - 3 Project N° 100 - M - JT - 83

Date 2/8/1983 Client JICA TEAM

Sheet 1 of 1

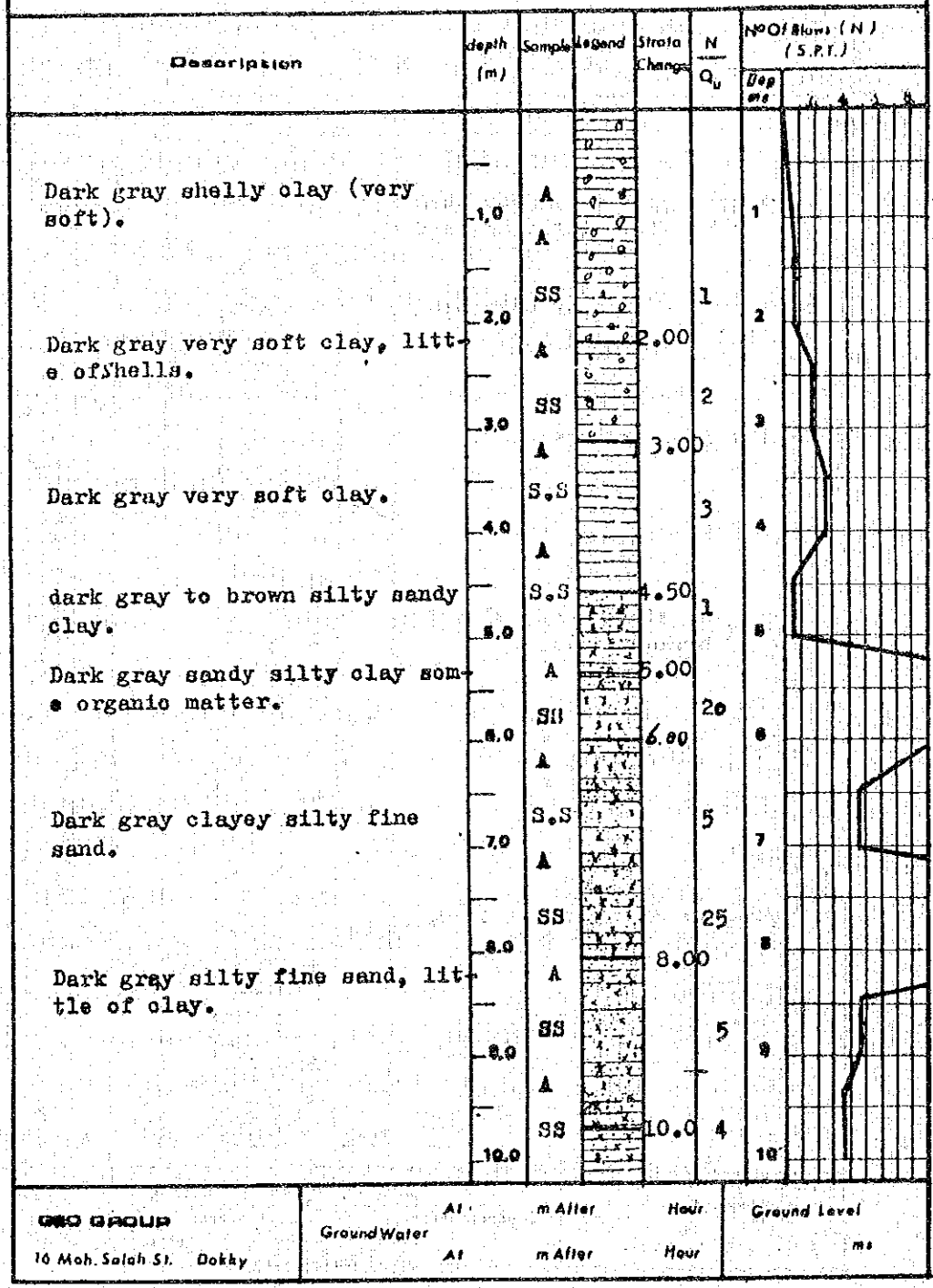


Figure N° _____ Project MANZALA LAKES

BoreHole N° S - 4 Project N° 100 - M - JT - 83

Date 2/8/1983 Client JICA TEAM

Sheet 1 of 1.

Description	depth (m)	Sample	Legend	Strata Change	N / Q_u
Dark gray shally silty clay.	1.0	A			
		A		1.50	
		SS			1
	2.0	A			
Dark gray soft silty clay some fine sand and shells.				2.50	
		SS			1
	3.0	A			
		SS			2
Dark gray soft clay.	4.0	A			
		SS		4.50	7
Dark gray to brown silty sand and layers of clay.	5.0	A			
		SS			24
	6.0	A		6.00	
Dark gray verysoft clay organic matter.		SS			1
	7.0	A		7.00	
		SS			25
Dark gray sandy clayey silt, little of shells.	8.0	A		8.00	
		S.S			5
Dark gray silty clay.	9.0	A			
		SS		10.00	5
	10.0				

N°Of Blows (N) (S.P.T.)

Dep ms — 2 — 4 — 6 — 8

1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9 — 10

24"

25

GEO GROUP
16 Moh. Salah St. Dokky

At m After Hour Ground Water

At m After Hour

Ground Level ms

Figure N° .....

Project MANZALA LAKE

BoreHole N° S - 5

Project N° 100 M JT 83

Date 6/8/1983

Client JICA TEAM

Sheet 1 Of 1

Description	Depth (m)	Sample	Legend	Strata Change	N / Q_u	N° Of Blows (N) (S.P.T.) Depth
Dark gray soft clay, some silt		A				1
Trace of sand, some brokn shells.	1.0	A		1.50	1	2
Dark gray soft silty clay,	2.0	A				
Thin layers of sand.		SS			1	3
Dark gray layers of silt,	3.0	A		3.00		
Sand and clay.		SS			3	4
Dark gray soft silty clay	4.0	A		4.00		
Some brokn shells.		SS			5	5
	5.0	A		5.00		
Dark gray sandy silty clay.		SS			4	6
	6.0	A				
		SS			3	7
	7.0	A		7.00		
		SS			3	8
Dark gray fine sand and	8.0	A				
Silt.		SS			4	9
	9.0	A				
		SS			3	10
	10.0			10.00		

GEO GROUP
14 Moh. Salah St. Dokky

Ground Water At m After Hour
At m After Hour

Ground Level m.s

Figure N° _____ Project MANZALA LAKE

Borehole N° S - 6 Project N° 100 - M - JT - 83

Date 1/8/1983 Plans NICA TRAM

Sheet 1 Of 1

Description	Depth (m)	Sample	Legend	Strata Change	N	No Of Blows (N) (S.P.T.) Dep. m
Dark gray shelly silty clay (very soft).	1.0	A				1
		A				
	2.0	SS		2.00	1	2
Dark gray soft clay, little		A				
Of silt trace of shells..	3.0	SS			2	3
		A				
	4.0	SS		4.00	2	4
		A				
		SS			1	5
Dark gray very soft clay.	6.0	A				
		SS			2	6
	6.0	A		6.00		
		SS			5	7
Dark gray clayey silty sand.	7.0	A				
		SS			13	8 13
	8.0	A		8.00		
		SS			11	9 11
Dark gray silty fine sand.	9.0	A				
		SS		10.00	12	10 12
	10.0					

GEO GROUP
16 Moh. Salah St. Dokky

Ground Water At m After Hour
At m After Hour

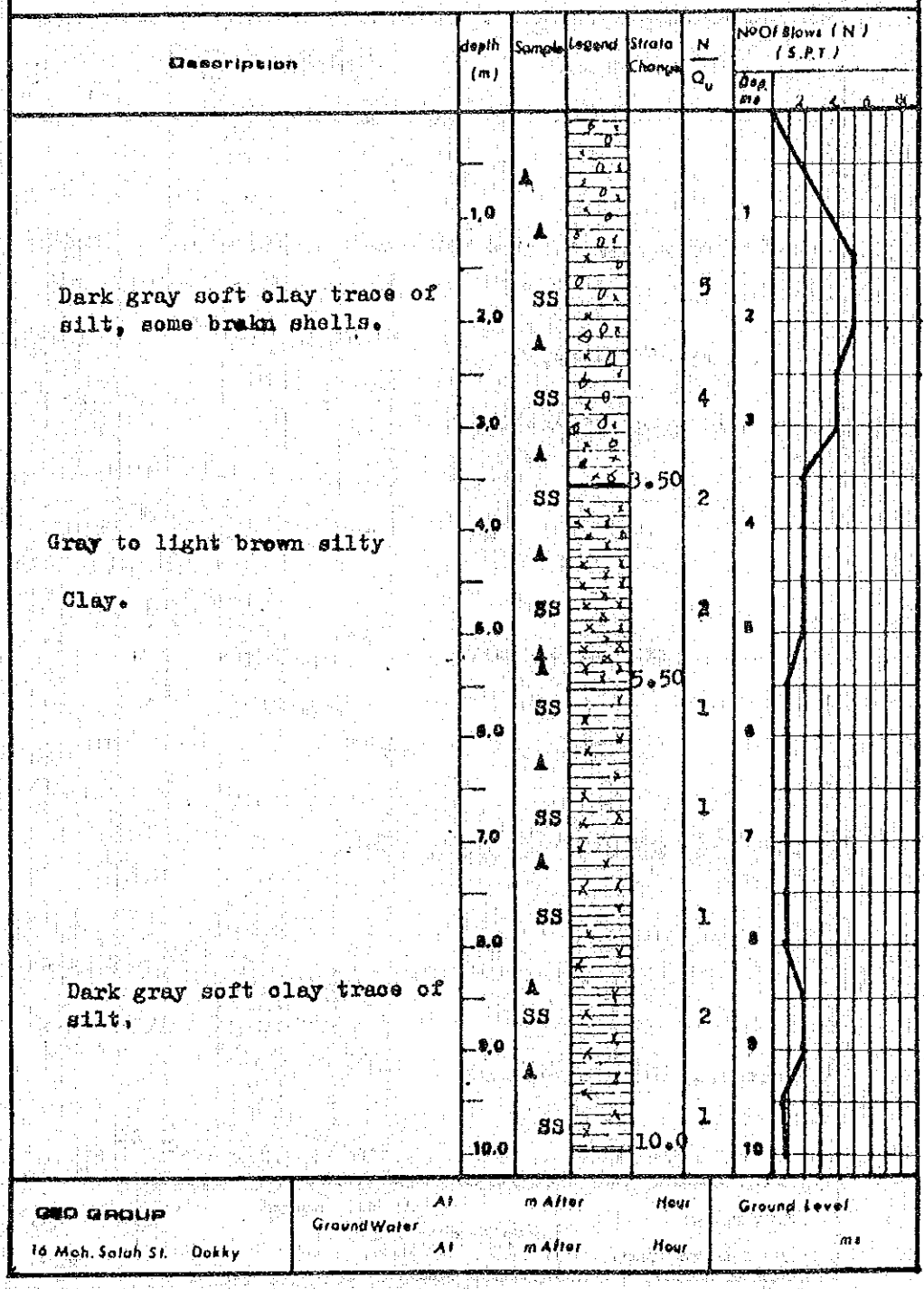
Ground Level m

Figure No. _____ Project MANZAL LAKE

Borehole No. S - 7 Project No. 100 - M - JT - 83

Date 6/8/1983 Client JICA TEAM

Sheet 1 of 1



GEO GROUP
16 Moh. Salah St. Dokky

GroundWater At m After Hour

At m After Hour

Ground Level m

Figure No. _____ Project MANZALA LAKE

Borehole No. S - 8 Project No. 800 - M - JT - 83

Date 3037/1983 Team JICA-TEAM

Sheet 1 of 1

Description	depth (m)	Sample	Legend	Strata Change	N / Q_u	No. of Blows (N) (S.P.T.) Dep. m
Dark gray very soft clay with braken shells.	1.0	A				1
	2.0	A SS A		2.00	2	2
Dark gray very soft clay litte of brakn shells.	3.0	S.S A			2	3
	4.0	SS		4.00	1	4
Dark gray soft silty clay.	5.0	A SS A			2	5
	6.0	SS		6.00	1	6
Dark gray soft silty clay.	7.0	A SS A			1	7
	8.0	SS		8.00	oo	8
Dark gray very soft clay. Trace of Silt.	9.0	A SS A			1	9
	10.0	SS		10.00	oo	10

GEO GROUP
16 Moh. Salah St. Dokky

Ground Water At m After Hour

At m After Hour

Ground Level m

Figure N° _____ Project MANZALA LAKE

Bore Hole N° S - 9 Project N° 100 - M - JT - 83

Date 28/7/1983 Client JICA TEAM

Sheet 1 Of 1

Description	depth (m)	Sample	Legend	Strata Change	N / Q_u	N°Of Blows (N) (S.P.T.) Dep ms
Dark gray soft siltyclay same Brakn shells.	1.0	A				1
		A		1.50		
Silty clay, little of fine sand.		SS			1	2
	2.0	A		2.50		
Dark gray soft olay trace of silt.		S.S			2	3
	3.0	A				
		SS			oo	4
	4.0	A		4.00		
Dark gray very soft clay.		SS			1	5
	5.0	A				
		SS			oo	6
	6.0	A		6.50		
		SS			1	7
Dark gray very soft clay.	7.0	A				
		SS			1	8
Trace of Silt.	8.0	A				
		SS			2	9
	9.0	A				
		SS		10.00	1	10
	10.0					

GEO GROUP
16 Moh. Salah St. Dokky

Ground Water At m After Hour

At m After Hour

Ground Level ms

Figure N° _____ Project MANZALA LAKE

Borehole No S - 10 Project N° 100 - M - JT - 83

Date 23/7/1983 Client JICA TEAM

Sheet 1 Of 1

Description	depth (m)	Sample	Legend	Strata Change	N / Q_u	No Of Blows (N) (S.P.T.) Dep. ms
Dark gray very soft clay some brakn shells.	1,0	A				1
		A		1.00		
Dark gray very soft clay some Brokn shells some pieces of red bricks	2,0	S.S			1	2
		A				
	3,0	SS			2	3
		A				
	4,0	SS			3	4
		A		4.00		
Dark gray soft Silty Clay.	5,0	SS			3	5
		A				
	6,0	SS			2	6
		A		6.50		
	7,0	SS			2	7
		A				
Dark gray soft clay.	8,0	S.S			2	8
		A				
	9,0	SS			3	9
		A				
	10,0	SS		10.0	1	10

GSO GROUP
16 Moh. Salah St. Dokky

GroundWater At m After Hour
At m After Hour

Ground Level ms

Figure N° _____ Project MANZALA LAKE

BoreHole No S - 11 Project N° 100 - M - JT - 83

Date 30/7/1983 Client JICA TEAM

Sheet 1 Of 1

Description	depth (m)	Sample	Legend	Strata Change	N / Q_u	No Of Blows (N) (S.P.T.) Dep m
Dark gray soft clay trace of silt, brockn shells.	1.0	A				1
	2.0	SS			5	2
	3.0	S.S		3.00	2	3
Gray to light brown Silty Clay	4.0	A				4
	5.0	SS		4.50	3	5
Dark gray very soft Clay Trace of Silt.	6.0	A			2	6
	7.0	SS		6.00	3	7
Dark gray vesy soft clay.	8.0	A			2	8
	9.0	SS			2	9
	10.0	A			1	10
		SS		10.0	2	

GEO GROUP
16 Moh. Salah St. Dokky

Ground Water At m After Hour
At m After Hour

Ground Level m

Figure N° _____ Project MANZALA LAKE

Borehole N° S - 12 Project N° 100 - M - JT - 83

Date 24/7/1983 Client JICA TEAM

Sheet 1 Of 1

Description	depth (m)	Sample	Ground	Strata Change	N / Q_u	N° Of Blows (N) (S.P.T.)
Darke grey soft clay, some brakem shells.	1.0	A				1
		A		1.50		
		S.S			3	2
	2.0	A				
Dark gray soft Clay little Of shells.		SS			4	3
	3.0	A				
		SS			5	4
	4.0	A		4.50		
		SS			1	5
Dark gray very soft clay?	5.0	A				
Darke grey soft clay, little of silt.		S.S		5.50	1	6
	6.0	A		6.50		
Darke gray soft clay, some silt, trace of fine sand.		SS			2	7
	7.0	A		7.50		
Darke gray very soft clay.		S.S			1	8
	8.0	A				
		SS			1	9
	9.0	A				
		SS		10.00	2	10
	10.0					

GEO GROUP
16 Moh. Salah St. Dokky

Ground Water At m After Hour

At m After Hour

Ground Level m

Figure N° _____ Project MANZALA LAKE

Borehole N° S - 13 Project N° 100 - M - JT - 83

Date 25/7/1983 Client JICA TEAM

Sheet 1 Of 1

Description	depth (m)	Sample	Legend	Strata Change	N / Q_u	N°Of Blows (N) (S.P.T.) Bag ms
Darke grey very soft clay, some brokn shells.	1,0	A				1
		A				
	2,0	SS			1	2
		A				
		SS			1	
	3,0	A				3
Dark grey very soft clay.		SS			2	
	4,0	A				4
		SS			1	
	5,0	A				5
		SS			1	
	6,0	A				6
Dark gray very soft clay.		SS			2	
	7,0	A				7
		SS			1	
	8,0	A				8
		SS			1	
	9,0	A				9
		SS		10.0	2	
	10,0					10

GEO GROUP
16 Moh. Salah St. Dokky

Ground Water At m After Hour
At m After Hour

Ground Level ms