TEN DAYS AND MONTHLY MEANS GAUGE

Station: DUEIM

River: White Nile

Dec.	11.92	11.84	11.76	11,84	11.73	11.65	11.48	11.62		12.06	11.92	11.83	11.94	
Nov.	12.28	12.07	12.01	12.12	11.93	11.84	11.74	11.84	-	12.45	12.26	12.13	12,28	
000	13.29	12.91	12.49	12.90	12.52	12.17	12.07	12.25		13.79	13.42	12.74	13.32	
Scp	13.81	14.07	13.71	13.86	12.83	12.97.	12.89	12.90		14.24	14.20	13.87	14.10	
Aug.	12.65	13.08	13.50	13.08	11.57	12.03	12.62	12.07		12.43	13.65	14.18	13.42	
Jul.	10.84	11.21	11.71	11.26	10.76	10.58	11.22	10.99		10.59	10.94	10.48	10.67	
Jun.	10.29	10.47	10.65	30.47	10.17	10.31	10.62	10.37		9.95	86.6	10.32	10.08	
May	10.22	10.15	10.17	10.18	10,46	10,35	10.18	10.33		86.6	10.00	10.05	10.01	
Apr.					10.35	10.32	10.37	10.35		10.01	86.6	10.00	10.02	
Mar.					10.49	10.48	10.43	10.47		10.33	10.21	10.10	10.21	
Feb.					10.97	10.70	10.58	10.75		10.67	10.56	10.45	10.56	
Jan.					11.68	11.57	11.34	11.53		11.27	11.07	10.85	11.06	
Date	1 - 10	11 - 20	21 - end	Mean	1 - 10	11 - 20	21 - end	Mean		1 - 10	11 - 20	21 - end	Mean	
Year			1506				1907					1908		

DUEIM Gauge: Erected on the left bank of the White Nile in 1906.
Zero of Gauge: R.L. 362.04 metres assuming Khartoum gauge zero = 360 metres

TEN DAYS AND MONTHLY MEANS GAUGE

White Nile Station: DUEIM River: White N

Year	Date	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Λυg.	Sep.	0ct.	Nov.	Dec.
	1 - 10	11.81	11.57	10.66	10.24	10.54	10.63	11.15	12.82	14.24	13.82	12.74	12.31
(11 - 20	11.85	11.22	10.47	10.32	10.50	10.82	11.37	13.52	14.12	13.48	12,54	12,23
1909	21 - end	11.74	10.94	10.35	10.48	10.47	10.96	11.96	14.00	13.99	13.16	12.40	12.21
	Mean	11.80	11.24	10.45	10.35	10.50	10.30	11.49	13,45	14.12	13.49	12,56	12.25
	-	-											
	1 - 10												
	11 - 20	-											
	21 - end												
	Mean	-											
	1 - 10												
	11 - 20					-		•		i			
	21 - end			-								-	
	Mean			•			:						
													,

TEN DAYS AND MONTHLY MEANS GAUGE

Station:

	Oct.	13.45	13.38	13.19	13.34	12.96	12.61	12.29	12.62	12.43
	Sep.	13.75	13.74	13.54	13.68	13.77	13.79	13,46	13,67	13.24
	Aug.	11,87	13.16	13.56	12.86	12.08	12.76	13.50	12.78	12.48
	Jul.	10.73	11.00	11.25	10.99	10.75	11.05	11.48	10.09	10.45
	Jun.	10.34	10.43	10.55	10.44	10.28	10.41	10.54	10.41	10.15
	Маў	10.02	9.97	10.10	10.03	10.10	10.02	10.17	10.10	 10.20
	Apr.	10.37	10.19	10.08	10.21	10,26	10.23	10.13	10,21	10.22
	Mar.	11.14	10.80	10.53	10.82	10.58	10.44	10.31	10.44	10.28
	Heb.	11.98	11.85	11.56	11.80	11.47	11.21	10.75	11.14	10.57
White Nile	Jan.	12.14	12.14	12.06	12,11	11.79	11.78	11.70	11.76	11,36
River: Wh	Date	1 - 10	11 - 20	21 - end	Mean	1 - 10	11 - 20	21 - end	Mean	1 - 10
업	Year		0	0767			,	1761		

11.86

12.36

Dec.

Nov.

No. 2

Y

11.95

12.70

11.85

12.29

11.79

12.08

11.76

12.03

11.60

11.79

11.67

11.85

11.68

11.89

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TEN DAYS AND MONTHLY MEANS GAUGE

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Station: DUEIN

Year	Date	Jen.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	1 - 10	11.36	10.53	10.24	9.98	96.6	10,31	10.44	10.96	12.09	11,66	11.36	10.72
1012	11 - 20	11.06	10.36	10.20	9.54	10.06	10.43	10.51	11.44	12.22	11.44	11.27	10.55
1	21 — end	10.82	10.29	10.15	9.92	10.24	10,43	10.69	11.90	12,10	11.43	11.18	10.37
	Mean	11.03	10.39	10.20	9.95	10.05	10.39	10.55	11.43	12.14	11.51	11.27	10.55
	1 - 10	10.22	25.6	05.6	98.6	68.6	9.74	10.22	12.48	13.39	13.09	12.47	11.97
,	11 - 20	10.13	9.93	9.84	9.82	9.82	88.6	10.43	13.34	13.20	13.12	12.38	11.85
1914	21 - end	10.02	9.91	06*6	6.90	99.6	10.00	11.33	13.59	13.03	12.79	12.14	11.76
	Mean	10.12	9.94	9.88	98.6	9.79	78.6	10.66	13.14	13.21	13.00	12,33	11.86
								-		i			
	1 - 10	11.78	11.38	10.44	10.13	10.03	10,15	10.60	11.72	12.32	12.88	12.00	11.63
	11 - 20	11.70	11.04	10.27	10.10	10.03	10.20	10.78	12.14	12.73	12.68	11.78	11.53
CTKT	51 - end	11.58	10.66	10.15	10.04	10.14	10.38	10.99	12.17	12.99	12.38	11,68	11.54
	Mean	11.69	11.03	10.29	10.09	10.07	10,24	10:79	12.02	12,68	12.65	11.82	11.57
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TEN DAYS AND MONTHLY MEANS GAUGE

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No. 4

TEN DAYS AN

Station: DUEIM River: White Nile

Dec.	12.16	12.13	12.07	12.12		12.24	12.21	12.18	12.21		11.86	11.81	11.55	11.74	
Nov.	12.89	12.57	12.33	12.60		12.79	12,44	12.28	12.50		12,04	11.95	11.89	11.96	
Oct.	13.91	13.82	13.39	13.71		14.28	13.90	13,38	13.85	,	12,58	12,32	12,12	12,34	
Sep.	13.96	14.04	13.89	13.96		14.23	14.45	14.50	14.39		13.36	13.11	12.87	13.11	
Aug.	12.73	13.49	13.84	13.35		12.92	13,10	13.72	13.25		12.14	12.58	13.02	12.58	
Jul.	10.62	10.99	11.81	11.14	:	11.03	11.34	11.81	11.39		11.35	11.56	11.81	11.57	
Jun.	10.11	10.20	10.40	10.24		10.46	10.54	10.74	10,58		11.28	11,18	11,27	11.24	
Ma.y	9.94	10.00	10.03	6.66	- *1	10.38	10.39	10.40	10.39		12.04	11.73	11.48	11.75	
Apr.	95.6	9.95	06.6	9.94		10.59	10.42	10.42	10.48		12.43	12.37	12.27	12.35	
Mar.	10.15	10.10	10.00	10.08		11.75	11.43	10.98	11.39		12.34	12.36	12.42	12.37	
Feb.	10.60	10.42	10.27	10.43		11.96	11.96	11.91	11.94		12.26	12.27	12,33	12.29	
Jan.	11.51	11.29	10.95	11.25		12.04	11.99	12.01	12.01		12.17	12.21	12.24	12.21	
Date	1 - 10	11 - 20	21 - end	Mean	!	1 - 10	11 - 20	21 - end	Mean		1 - 10	11 - 20	21 - end	Mean	
Year			0161					161				, ,	2161		

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TEN DAYS AND MONTHLY MEANS GAUGE

Station: DUEIM

Year	Date	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	·gny	Sep.	0ct.	Nov.	Dec.
	1 - 10	11.28	10.80	10.59	10.37	10.26	10.30	10.77	12.67	13.49	12.68	11.87	11.73
5	11 - 20	11.04	10.62	10.49	10.30	10.12	10.48	11.08	12.84	13.63	12.18	11.81	11.76
47.4	21 - end	10.87	10.61	10.45	10.30	10.16	10.68	11.58	13.26	13.35	11.98	11.81	11.65
7	Mean	11.06	10.68	10.51	10.32	10.18	10.49	11.14	12.92	11.49	12.28	11.83	11.71
	1 - 10	11.39	10.53	10.28	10.11	10.01	10.31	10.88	12.50	13.04	12.81	12.11	11.73
Ç	11 - 20	11.05	10.47	10.22	10.08	10.08	10.50	11.25	12.95	12.76	12.59	11.96	11.66
077.1	21 - end	10.73	10.42	10.23	6.99	10.13	10.64	17.11	13,11	12.79	12,36	11.83	11.66
	Mean	11.06	10.47	10.24	10.06	10.01	10,48	11.28	12,85	12,86	12.59	11.97	11.68
									-	<u>:</u>	-		
	1 - 10	11.52	. 10.68	10.30	10.06	9.87	10.19	10.57	11.93	13.17	12.93	11.91	11.58
Ċ	11 - 20	11.22	10.49	10.19	10.01	96.6	10.27	10.74	12.68	13.14	12.52	11.69	11.61
1251	21 end	10.95	10.36	10.15	9.82	10.14	10.37	11.18	13.20	13.25	12.12	11.63	11.56
	Mean	11.23	10.51	10.21	95.6	66.6	10.28	10.83	12.60	13.19	12.52	11.74	11.58

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TEN DAYS AND MONTHLY MEANS GAUGE

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Station: DUEIM

Year	Date	Jan.	Feb.	Mar.	Apr.	Мау	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	1 - 10	11.40	10.32	96.6	15.6	9.36	9.81	10.44	12.45	13.56	12.99	11.98	11.60
, COD.	11 - 20	11.08	10.13	62.6	95.6	5.27	66*6	10.79	13.20	13.61	12.89	11.82	11.58
1	21 - end	10.63	10.02	6.65	9.29	.9.47	10.23	11.30	13.17	13.19	12.39	11.72	11.54
	Moan	11.04	10.16	9.80	9.38	9.37	10.01	10.84	12.94	13,45	12,76	11.84	11.57
· _													
:	1 - 10	11.50	10.53	9.97	9.85	10.11	10.30	10.83	12.58	13.51	13.40	11.90	11.74
, c	11 - 20	11.33	10.22	9.89	9.90	96.6	10.53	11.04	13.45	13,32	12.63	11.81	11.73
1747	21 - end	10.95	10.06	08.6	10.11	26.6	10.65	11.78	13.60	13.56	12.20	11.77	11.70
	Mean	11,25	10.27	9.89	9.95	10.01	10.49	11.22	13,21	13.46	12.74	11.83	11.72
	1 - 10	11.60	10.83	10.20	10.04	10.17	10.12	10.60	12.25	13.57	12.83	11.91	11.63
	11 - 20	11.46	10.53	10.05	10.13	10.28	10.28	10.94	12.79	13.60	12.40	11.89	11.60
1761	21 — end	11.12	10.32	10.00	10.11	10.28	10.38	11.47	13.28	13.14	11.99	11.77	11.63
•	Mean	11.39	10.56	10.08	10.09	10.24	10.26	11.00	12.77	13.44	12.41	11.86	11.62
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TEN DAYS AND MONTHLY MEANS GAUGE

Station: DUEIM

Year	Date	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	1 - 10	11.59	10.75	10.17	10.04	10.10	10.22	10.82	11.96	13.01	12.59	11.81	11.68
3.00 E	11 - 20	11.46	10.45	10.11	10.04	10.16	10.36	10.11	12.48	12.72	12.31	11.74	11.68
7767	21 - end	11.15	10.27	10.04	10.06	10.25	10.63	11.36	12.96	12.57	12.02	11.70	11.61
	Mean	11.40	10.49	10.11	10.05	10.17	10.40	11.06	12.47	12.77	12.31	11.75	11.66
	1 - 30	11.44	10.50	01.01	01.01	10.04	10.47	10.78	12,73	13.52	12.97	12.04	11.74
1026	11 - 20	11.15	10.32	10.09	10.06	10.02	10.48	10.96	13.25	13.45	12.55	11.90	11.84
0761	21 - end	10.78	10.20	10.09	10.02	10.14	10.54	11.47	13.50	13.19	12.30	11.77	11.77
	Mean	11.12	10.34	10.09	10.06	10.01	10.50	11.07	13.16	13.39	12.61	11.90	11.78
	1 - 10	11.72	11.42	10.37	10.15	10.09	10.00	10.60	12.34	13.12	12.60	11.57	11.37
1027	11 - 20	11.68	10.98	10.23	10,10	10.01	10.13	10.93	12.51	12.82	12.25	11.43	11.19
1761	21 - end	11.62	10.60	10.22	10.14	10.04	10.38	11.31	13,15.	12,75	11.79	11.38	10.85
	Moan	11.67	11.00	10.27	10.13	10.01	10.17	10.95	12,67	12.90	12.30	11.46	11.14

TEN DAYS AND MONTHLY MEANS GAUGE

Station: DUEIM River: White Nile

Year	Date	Jan.	Feb.	Mar.	Apr.	May	Jun,	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	1 - 10	10.50	10.12	6.93	88.6	10.10	10.51	10.99	12.36	13.65	12.42	11.82	11.70
1008	11 - 20	10.30	10.06	6.92	68.6	10.23	10.66	11.51	13.18	13.30	12.17	11.73	11.64
1 7 50	21 - end	10.24	96.6	06.6	76.6	10.42	10.80	12.01	13.57	12.73	12.08	11.73	11.63
	Mean	10.35	10.05	9.92	9.91	10.25	10.66	11.50	13,04	13,23	12.22	11.76	11.66
								-:					
	1 - 10	11.58	10.73	10.33	10.15	01.01	10.72	11.28	13.14	13.93	13.45	12.23	11.74
000	11 - 20	11,44	10.49	10.23	10.01	10.33	10.89	11.65	13.58	13.97	13.17	11.94	11.73
7 7 7	21 - end	11.13.	10.41	10.18	9.95	10.48	11.08	12.64	13.71	13.76	12.80	11.81	11.70
	Mean	11.38	10.54	10.25	10.04	10.30	10.90	11.86	13,48	13.89	13,14	11.99	11.72
								:					
	1 - 10	11.69	11.04	10.42	10.14	10.13	10.12	10.72	12.46	13.04	12.43	11.50	11.32
0.00	11 - 20	11.60	10.79	10.28	10.08	10.19	10.26	11.07	13.12	13.03	11.91	11.46	11.21
	21. – end	11.36	10.58	10.20	10.09	10.15	10.48	11.62	13.02	12.72	11.63	11.41	10.99
	Mean	11.55	10.80	10.30	01.01	10.16	10.29	11.14	12.87	12.93	11.99	11.46	11.17
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TEN DAYS AND MONTHLY MEANS GAUGE

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Station: DUEIM

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Dec.	11,67	11.65	11.63	11.65	11.92	11.94	11.98	11.95		12.04	12.00	11.96	12.00	
Nov.	12.03	11.79	11.69	11.84	12.11	11.98	11.94	12.01		12.29	12.12	12.04	12.15	
Oct.	12.79	12.49	12.43	12.57	13.21	12.70	12.34	12.75		13.13	12.68	12.52	12.78	
Scp.	13.39	13.24	13.28	13.30	13,44	13.55	13,42	10,47		13,56	13.66	13.32	13.51	
Aug.	11.92	12.79	13.17	12.63	12.59	13.16	13.37	13,04		11.90	12.62	12.91	12.48	
Jul.	10.45	10.76	11.06	10.76	10.81	11.04	11.49	11.11		10,63	10.78	11.02	10.81	
Jun.	78.6	10.09	10.33	10.10	10.27	10.47	10.67	10.47		10.35	10.42	10.47	10.41	
May	26.6	98.6	68.6	ଓଡ଼ି ଓ	10.04	10.01	10.12	10.06		10.32	10.18	10.26	10.25	
Apr.	78.6	98.6	88.6	9.87	10.04	10.02	10.04	10.03		10.37	10.40	10,35	10.37	
Mar.	76.6	9.92	68.6	9.93	10.14	10.09	10.06	10.10		10.92	10.65	10.48	10.68	
Feb.	10.20	10,13	10.04	10.12	10,46	10.28	10.19	10.31		11.98	11.74	11.33	11.68	-
Jan.	10.76	10.51	10.33	10.53	11.45	11.17	10.82	11.15		12.02	12.02	12.04	12.03	-
Date	1 - 10	11 - 20	21 - end	Nean	1 - 10	11 - 20	21 - end	Mean	,	1 - 10	11 - 20	21 - end	Mean	
Year		1631	1024	,		0.50	7064				1033		·	

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TEN DAYS AND MONTHLY MEANS GAUGE

Station: DUEIM

Year	Date	Jan.	Peb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	1 - 10	11.86	11.19	10.51	10.20	10.24	10.30	10.85	12.42	14.02	13.19	12.08	11.87
0	11 - 20	11.81	10.86	10.43	10.17	10.29	10.40	11.25	13.24	13.58	12.75	11.94	11.84
4561	21 - end	11.58	10.66	10.28	10.17	10.26	10.65	12.04	13.76	13.36	12.33	11.85	11.84
	Mean	11.75	10.90	10.41	10.18	10.26	10.45	11.38	13.14	13.65	12.76	11.96	11.85
	1 - 10	11.85	11.29	10.52	10.25	10.34	10.52	11.10	13.14	13.69	13.45	12.09	11.80
i C C	11 - 20	11.80	10.90	10.42	10.32	10.31	10.68	11.66	13,46	13.63	13.05	11.95	11.79
1933	21 - end	11.63	10.67	10.34	10.42	10.39	10.91	12337	13.81	13.74	12.44	11.86	11.77
	Mean	11.76	10.95	10.43	10.33	10.35	10.70	11.11	13.47	13.69	12.98	11.97	11.79
		-											
	1 - 10	11.72	10.93	10.58	10.27	10.20	10.41	10.86	12.50	13.80	13.18	11.85	11.58
96	11 - 20	11.57	10.73	10.52	10.17	10.20	10.49	11.39	13.07	13.85	12.65	11.67	11.57
0064	21 - end	11.20	10.62	10.36	10.13	10.27	10.58	11.88	13.56	13.66	12.13	11.60	11.48
	Mean	11.50	10.76	10.49	10.19	10.22	10.49	11.38	13.04	13.77	12.65	11.71	11.54

TEN DAYS AND MONTHLY MEANS GAUGE

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Station: DUEIM

Yea r	Date	Jan.	reb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	1 - 10	11.32	10.45	10.27	10.01	76.6	10.29	10.76	12.80	13.74	12.93	12.91	12.89
. '	11 - 20	10.99	10.35	10.20	10.06	86.6	10.50	11.05	13.33	13.51	12.77	12.91	12.89
1937	21 - end	10.64	10.29	10.11	10.01	10.11	10.61	11.95	13.71	13.44	12.88	12.88	12.90
	Mean	10.98	10.36	10.19	10.05	10,02	10.47	11.25	13,28	13,56	12.86	12.90	12.39
							i i					·	
	1 - 10	12.85	12.62	11.25	10.17	10.12	10.24	10.79	13,36	14.15	13.83	13.30	13.41
- 5	11 - 20	12.87	12.22	10.41	10.15	10.15	10.39	11.78	13.77	14.20	13.49	13.36	13.42
1938	21 - end	12.74	11.82	10.17	10.05	10.19	10.56	12.82	13.96	14.06	13.33	13.44	13.34
	Mean	12.82	12.22	10.61	10.12	10.15	10.40	11.80	13.70	14.14	13.55	13.37	13.39
	1 - 10	13.32	13,44	13.31	12.69	11.00	11.59	11.25	14.02	14.25	13.73	13.86	13.88
	11 - 20	13.39	13.34	13.25	12.27	10.46	10.73	12.45	14.31	13.92	13.74	13,87	13.90
1939	21 - end	13.41	13.26	13.12	11.72	10.37	10.86	13.39	14.33	13.74	13.82	13.87	13.91
	Меап	13.37	13,35	13,23	12.23	10.61	11.06	12,36	14.22	13.97	13.76	13.87	13.90
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TEN DAYS AND MONTHLY MEANS GAUGE

Station: DUEIM

	(
Year	Date	Jan.	Feb.	Nar	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	1 - 10	13.88	13.74	12.41	10.26	10.08	10.07	10.52	12.81	14.58	14.30	14.39	14.37
9	11 - 20	13.80	13.36	11.77	10.10	10.12	10.24	10.64	13.76	14.78	14.32	14.37	14.37
1940	21 – end	13.79	12.92	10.86	10.06	10.04	10.41	11.29	14.34	14.72	14.34	14.37	14.34
	Mean	13.82	13.34	11.68	10.14	10.08	10.24	10.82	13.64	14.69	14.32	14.38	14.36
	1 - 10	14.32	13.82	12.70	10.31	9.95	10.23	10.74	13.83	14.53	15.00	14.64	14.59
(11 - 20	14.27	13.47	12.10	10.01	16.6	10.38	11.63	14.27	14.81	14.73	14.62	14.64
1941	21 - end	14.17	13.10	11.26	86.6	96.6	10.55	13.04	14.42	14.98	14.63	14.54	14.65
	Mean	14.25	13.46	12.02	10.12	9.94	10.39	11.80	14.17	14.77	14.79	14.60	14.63
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	1 - 10	14.68	14.56	13.76	12.39	98.6	10.34	10.76	13.97	14.64	15.12	14.90	14.96
	11 - 20	14.70	14,41	13.28	11.50	68.6	10.45	11.74	14.39	14.99	14.85	14.93	14,94
7345	21 - end	14.65	14.09	12.76	10.41	10.01	10.55	13.13	14.48	15.14	14.88	14.97	14.88
	Mean	14.68	14.35	13.27	11.43	9.94	10.45	11.88	14.28	14.92	1.4.98	14.93	14.93
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TEN DAYS AND MONTHLY MEANS GAUGE

Station: DUEIM River: White Nile

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Year	Date	Jan.	Fob.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	1 - 10	14.83	14.77	13.76	12.04	10.04	10.20	10.48	12.97	14.57	15.18	15.28	15.29
	11 - 20	14.83	14.51	13.32	11.11	10,03	10.13	10.69	13.81	14.98	15.21	15.24	15.30
1945	21 - end	14.85	14.14	12.77	10.24	10.13	10.32	11.53	14.34	15.17	15.24	15.27	15.30
	Mean	14.83	14.47	13.28	11.13	10.07	3.0.22	10.90	13.71	14.91	15.21	15.26	15.30
	1 - 10	15.29	15.25	14.25	12.52	10.06	10.48	10.75	13.71	14.62	15.16	15.23	15.22
	11 - 20	15.26	14.95	13.82	11.56	10.07	10.48	11.12	14.24	15.00	15.18	15.24	15.24
1944	21 - end	15.32	14.61	13.27	10.59	10.34	10.64	12.65	14.39	15.13	15.25	15.23	15.30
	Меал	15.29	14.94	13.78	11.56	10.16	10.53	11.51	14-11	14.92	15.20	15.23	15.25
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	1 - 10	15.37	15.22	14.23	12.28	9.72	10.11	10.58	12.70	14.59	15.20	15.27	15.21
() () ()	11 - 20	15.33	14.88	13.73	11.25	9.62	10.39	10.73	13.74	14.95	15.24	15.26	15.25
1940	21 - end	15.29	14.57	13.13	10.17	62.6	10.54	14.22	14.38	15.17	15.26	15.24	15.23
:	Mean	15.33	14.89	13,70	11.22	17.6	10.35	10,84	13.61	14.90	15.23	15.24	15.23

TEN DAIS AND MONTHLY MEANS GAUGE

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Station: DUEIM River: White Nile

Year	Date	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	1 10	15.24	15.32	14.78	13.41	10.99	98.6	10.64	13.77	14.78	15.24	15.30	15.17
7 0 4 5	11 - 20	15.28	15.23	14.44	12.76	9.72	10.08	11.81	14.24	14.94	15.28	15.24	15.16
4	21 - end	15.32	15.11	13.96	12.02	9.78	10.38	12.95	14.56	15.18	15.30	15.19	15.20
	Nean	15.28	15,22	14.39	12.73	10.16	10.11	11.80	14,19	14.97	15.27	15.24	15.18
	1 - 10	15.25	15.27	15.39	14.79	13.84	11.63	10.73	13.79	14.48	15.21	15.25	15.24
,	11 - 20	15.26	15.32	15.26	14.52	13.39	10.77	13.01	14,23	14.73	15.21	15.27	15.29
オかって	21 - end	15.26	15.39	15.01	14.19	12.69	10.60	12,55	14.40	15.12	15.22	15.25	15.30
	Mean	15.26	15.35	15.22	14.50	13,31	11.00	11.43	14.14	14.78	15.21	15.26	15.28
	1 - 10	15.29	15.25	14.75	13.67	11.21	10.17	11.08	13.93	14.46	15.23	15.22	15.18
0.00	11 - 20	15.28	15.13	14.46	13.16	10.27	10.35	12.41	14.23	14.85	15.25	15.19	15.17
9	21 – end	15.29	15.01	14.11	12.33	10.08	10.68	13.42	14.32	15.12	15.26	15.15	15.17
	Mean	15.29	15.13	14,44	13.05	10,52	10.40	12.30	14.16	14.81	15.25	15.19	15.17
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TEN DAYS AND MONTHLY MEANS GAUGE

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Station: DUEIM River: White Nile

Year	Date	Jan.	್ವಾಂಚ	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	1 - 10	15.19	15.21	15.07	13.93	12.25	10.13	10.75	13.38	14.54	15.22	15.20	15.13
	11 - 20	15.22	15.18	14.76	13.52	11.18	10.30	10.94	14.22	14.84	15.23	15.14	15.12
1949	21 - end	15.24	15.16	14.41	12.97	10.13	10.50	11.95	14.45	15.08	15.24	15.12	15.15
	Mean	15.22	15.18	14.75	13.47	11.19	10.31	11.21	14.02	14,70	15.23	15.15	15.13
	1 - 10	15.20	15.24	15.00	13.78	16.11	10.39	10.73	13.59	14.58	15.17	15.20	15.16
(((11 - 20	15.21	15.20	14.66	13.34	10.93	10.45	11.00	14.30	14.88	15.18	15.21	15.14
1950	21 - end	15.22	15.15	14.30	12.70	10.40	10.64	12.43	14.38	15.12	15.22	15.19	15.18
	Mean	15.21	15.20	14.65	13.27	11.08	10.49	11.39	14.09	14,86	15.19	15.20	15.16
	1 - 10	15.22	15.25	14.69	13.37	10.34	9:94	10.42	12.79	14.57	15.11	15.16	15.12
r U	11 - 20	15.19	15.20	14.41	12.71	9.87	10.18	10.64	13.73	14.86	15,12	15.13	15.12
1661	21 - end	15.22	15.03	13.95	11.65	9.84	10.36	11.45	14.37	15.09	15.15	15.12	15.14
	Mean	15.21	15.16	14.35	12.58	10.02	10,16	10.84	13,63	14.84	15.13	15.14	15.13
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TEN DAYS AND MONTHLY MEANS GAUGE

Station: DUEIM

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White Nile

River:

Dec.	15.23	15.25	15.27	15.25		15.20	15.18	15.18	15.19		15.32	15.32	15.53	1 1
Nov.	15.23	15.24	15.23	15.23		15.24	15.23	15.23	15.23		15.25	15.31	15.39	15 20
Oct.	15.10	15.14	15.23	15.16		15.26	15.26	15.28	15.27		15.28	15.25	15.28	15,27
Sep.	14.54	14.73	14.98	14.75		14.79	15.07	15.21	15.02		14.54	14.88	15.16	14.86
Aug.	13.18	13.98	14.52	13.89		13.29	14.15	14.26	13.90		13.81	14.52	14.53	14.29
Jul.	10.57	10.86	11.79	11.07		10.60	10.79	11.91	11.10		10,63	11.12	12,66	11.47
Jun.	10.23	10.27	10.42	10.31		10.24	10.34	10.47	10.35		10.12	10.32	10.50	10.31
May	10.06	10.01	10.06	10.04	7	10.04	10.03	10.17	10.03		10.12	10.08	66.6	10.06
Apr.	11.98	10.94	10.19	11.04	: "	12.06	10.71	10.17	10.98		12.67	11.65	10.54	11.62
Mar.	13.92	13.39	12.72	13.34		14.23	13.71	13.00	13.65		14.34	13.94	13.43	13.90
Web.	15.12	14.72	14.42	14.75		14.98	14.80	14.60	14.79	-	15.30	15.08	14.75	15.04
Jan.	15.21	15.27	15.27	15.25		15.24	15,24	15.15	15.21		15.33	15.36	15.33	15.31
Date	1 - 10	11 - 20	21 - end	Mean		1 - 10	11 - 20	21 - end	Mean		1 - 10	11 - 20	21 - end	Mean
Year		, , ,	1936				C L	5561				i C	1934	

TEN DAYS AND MONTHLY MEANS GAUGE

Station: DUEIM River: White Nile

Dec.	15.39	15.38	15.38	15.38		15.41	15.39	15.38	15.39	15.41	15.42	15.44	15.42	
Nov.	15.47	15.39	15.37	15.41		15.43	15.41	15.39	15.41	15.40	15.41	15.41	15.41	
Oct.	15.41	15.35	15.42	15.39		15.39	15.44	15.43	15.42	15.29	15.34	15.36	15.33	
Sep.	14,46	14.85	15.34	1.1.88		14.47	14.86	15.20	14.84	14.60	14.96	15.03	14.86	
Aug.	13.66	14.29	14.40	14.12		14.58	14.54	14,45	14.52	13.42	14.21	14.38	14.00	
Jul.	10.77	11.13	12.51	11.47		11.17	12.63	13.82	12.54	10.92	11.06	12,12	11.37	
Jun.	10.37	10.47	10.57	10.47		11.23	10.71	10.78	10.91	 12.59	11.65	10.97	11.74	
May	12.78	11.99	10.94	11.90	:	13.15	12.60	11.98	12.58	14.33	13.88	13.34	13.85	
Apr.	15.32	13.87	13.39	14.19		14.44	14.07	13.60	14.04	14.78	14.67	14.58	14.68	
Mar.	15.25	15.08	14.68	15.00		15.42	15.09	14.76	15.09	15.34	15.10	14.91	15.11	
Feb.	15.41	15.38	15,34	15.38		15.42	15,44	15.45	15.44	15.37	15.34	15.38	15.36	
Jan.	15.36	15.37	15.37	15.37		15.40	15.42	15.38	15.40	15.43	15.41	15.41	15.42	
Date	1 - 10	11 - 20	21 - end	Mean		1 - 10	11 - 20	21 - end	Mean	1 - 10	11 - 20	21 - end	Néan	
Year		ty ty C	7,77				L C	0067			1057			

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TIM DAYS AND MONTHLY MEANS GAUGE

Station: DUEIM

River: White Nile

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Dec.	15.38	15.36	15.38	15.37		15.41	15.42	15.49	15.44		15.51	15.55	15.59	15.55	
Nov.	15.46	15.45	15.43	15.45		15.36	15.34	15.37	15.36		15.52	15.52	15.51	15.52	
Oct.	15.29	15.39	15.43	15.37		15.29	15.37	15.34	15.33	. !	15.53	15.52	15.53	15.53	
Sep.	14,46	14.77	15.26	14.83		14.63	14.59	14.77	14.66		14.68	15.23	15.53	15.15	
Aug.	13.50	14.26	14.37	14.04		13.20	14.13	14.61	13.98		13.41	14.14	14.53	14,03	
Jul.	10.72	11.00	12.40	11.37		10.58	10.78	11.70	11.02		10.65	10.89	12.16	11.23	
Jun.	10,15	10,30	10.48	10.01		10.35	10,44	10.50	10.43		10.42	10.41	10.48	10,44	
May	10.17	10.28	10.18	10.21		11.09	10.25	10.21	10.52		11.82	10.69	10.44	10.98	
Apr.	12.89	11.82	10.58	11.76		13.64	13.07	12.25	12.99		13.94	13.39	12.72	13.35	
Mar.	14.50	14.19	13.64	14.11	-	14.88	14.59	14.20	14.56		15.09	14.76	14.43	14.76	
Feb.	15.09	14.87	14.67	14.88		15.34	15.22	15.09	15.22		15.49	15.43	15.30	15.41	
Jan.	15.43	15.34	15.25	15.34		15.45	15.44	15.39	15.43		15.46	15.51	15.53	15.50	
Date	1 - 10	11 - 20	21 - end	Mean	-	1 - 10	11 - 20	21 - end	Mean		1 - 10	11 - 20	21 - end	Mean	
Year		0 14 0	0067				() ()	1959.			-	0301	0064		

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No. 19

TEN DAYS AND MONTHLY MEANS GAUGE

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Station: DUEIM

River: White Nile

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Year	Date	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	000.	Nov.	Dec.
	1 - 10	15.58	15.43	14.72	12.96	10.49	10.18	10.64	13.97	14.49	15.22	15.48	15.57
1061	11 – 20	15.57	15.25	14.33	11.85	10.46	10.22	11.41	14.48	14.58	15,44	15.48	15.62
1064	21 end	15.56	15.05	13.78	10.79	10.28	10.35	12.95	14.52	14.93	15.47	15.53	15.73
	Mean	15.56	15.24	14.28	11.86	10.41	10,25	11.67	14,32	14.67	15,38	15.50	15.63
	οι - τ	15.74	15.79	15.80	15.52	14.52	12.73	11.00	13.79	14.80	15.53	15.72	15.73
640	11 - 20	15.73	15.79	15.82	15.21	13.99	11.92	11.17	14.53	15.11	15.64	15.73	15.67
7041	21 - end	15.74	15.78	15.70	14.87	13.42	11,15	12.29	14.59	15.37	15.68	15.73	15.69
	Mean	15.74	15.79	15.77	15.30	13.98	11.93	11.49	14,30	15.09	15,62	15.73	15.70
	1 - 10	15.69	15.76	15.82	15.42	14.56	13.77	13.17	14.00	14.58	15.34	15.72	15.80
	11 - 20	15.72	15.74	15.78	15.17	14.28	13.70	12.29	14.59	14.85	15.35	15.73	15.82
0061	21 - end	15.76	15.75	15.65	14.87	13.90	13.53	12.61	14.55	15.22	15.41	15.73	15.85
	Mean	15.72	15.75	15.75	15.15	14.25	13.67	12.69	14.38	14.88	15.37	15.73	15.82
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TEN DAYS AND MONTHLY MEANS GAUGE

Station: DUEIN

White Nile

River:

. Dec.	15.48	3 15.59	3 15.59) 15.55		15.61	5 15.57	7 15:60	3 15.59		9 15.48	8 15.49	8 15.45	3 15.17	
Nov.	15.55	15.48	15.43	15.49		15.42	15.46	15.57	15,48		15.49	15.48	15.48	15.48	
0ct.	15,44	15.49	15.50	15.48		15.50	15,53	15,52	15,52		15.44	15.42	15.47	15.44	
Sep.	14.81	15.02	15.23	15.02		15.21	15.44	15.53	15.39		15.02	15.45	15.45	15.31	
Aug.	14.26	14.75	14.78	14,60		13,36	13.37	13.86	13.53		13.39	14.40	14.70	14.16	
Jul.	11.27	11.57	12.82	11.87		11.37	11.56	11.99	11.64		11.48	11.58	11.87	11.64	
Jun.	13.10	11.95	11.27	12.11		13.49	12.33	11.57	12,46	-	10.84	11.02	11.27	11.04	
May	14.98	14.50	13.86	14.45		15.48	14.99	14.35	14.94		12.68	11.45	10.81	11.65	
Apr.	15.78	15.62	15.30	15.57		15.62	15.61	15.61	15.61		14.76	14.25	13.56	14.19	
Mar.	15.85	15.86	15.84	15.85		15.53	15.61	15.65	15.60		15.31	15.33	15.18	15.27	
Feb.	15.84	15.83	15.85	15.84	·	15.56	15.57	15.55	15.56		15.56	15.45	15.41	15.47	
Jan.	15.82	15.76	15.77	15.78		15.58	15.56	15.59	15.58		15.62	15.60	15.62	15.61	
Date	1 - 10	11 - 20	21 - end	Mean		1 - 10	11 - 20	21 - end	Mean		1 - 10	11 - 20	21 end	Mean	
Year		7	1704				(5967				Č	1906		

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TEN DAYS AND MONTHLY MEANS GAUGE

Station: DUEIM River: White Nile

Date Jan	Jai		Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1 - 10 15.47	15.	47.	15.46	15.51	15.28	13.95	11.15	10.84	14.95	14.83	15.48	15.51	15.49
11 - 20 15.	15.	.53	15.49	15.52	14.77	13.34	10.57	11.08	14.68	15.09	15.55	15.47	15.50
21 - end 15	15	53	15.50	15.51	14.39	12.44	10.65	12.51	14.77	15.36	15.53	15.46	15.51
Mean 15	15	.51	15.48	15.51	14.81	13.24	10.79	11.48	14.80	15.09	15.52	15.48	15.50
1 - 10 15	15	15.53	15.55	15.53	15.05	13.92	11.26	10.11	14.28	15.26	15.38	15.35	15.37
11 - 20 15	15	.53	15.51	15.55	14.72	13.25	10.67	11.82	14.61	15,44	15.40	15.37	15.36
21 - end 15	7	5.54	15.50	15.39	14.41	12,40	10.74	13.22	14.77	15.36	15.40	15.41	15.35
Mean 15	27	5.53	15.52	15.49	1.4.73	13,19	10.89	12.02	14.55	15.35	15.39	15.38	15.36
1 - 10 1,	7	15.32	15.46	15.47	14.86	12.83	10.75	11.27	14.37	15.13	15.40	15.38	15.45
11 - 20 15	ī	5.37	15.40	15.46	14.26	11.66	10.79	11.89	14.68	15.41	15.44	15.31	15.42
21. – end 15	7	5.42	15.48	15.30	13.91	10.83	10.92	13.16	14.81	15.41	15.45	15.36	15.44
Mean		15.37	15.45	15.41	14.34	11.77	10,82	12,11	14.62	15.32	15.43	15.35	15.44
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TEN DAYS AND MONTHLY MEANS GAUGE

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Station: DUEIM
River: White Nile

Year	Date	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	1 - 10	15.50	15.48	15.51	14.78	12.74	10.73	11.12	13.73	14.80	15.39	15.38	15.32
1970	11 - 20	15.52	15.50	15.51	14.28	11.95	10.77	11.55	14.52	15.26	15.41	15.35	15.30
	21 - end	15.49	15.50	15.31	13.59	10.93	10.88	11.71	14.58	15.42	15.43	15.33	15.34
	Mean	15.50	15.49	15.44	14.22	11.87	10.79	11.46	1.4.28	15.16	15.41	15,33	15.32
٠.	1 - 10	15.42	15.37	15.39	14.90	12.98	10.77	11.10	14.03	15.13	15.42	15.38	15.43
1001	11 - 20	15.46	15331	15.45	14.44	12.07	10.77	11.67	14.81	15.28	15.40	15.37	15.41
1 2 2	21 - end	15.42	15.34	15.33	13.75	11.17	10.79	12.77	15.13	15.45	15.41	15.41	15.35
	Mean	15.43	15.34	15,39	14.36	12.07	10.78	11.85	14.65	15.29	15.41	15.39	15.40
· · .	07 - T	15.38	15.39	15.44	14.58	12.46	10.67	10.93	13.79	15.18	15.38	15.34	15.40
1072	11 - 20	15.44	15.38	15.37	14.03	11.85	10.71	11.41	14.61	15,26	15.36	15.30	15.42
4	21 - end	15.46	15.40	15.13	13.30	11.04	10.73	12.48	15.14	15.35	15.38	15.34	15,45
,	Mean	15.43	15.39	15.31	14.06	11.78	10.70	11.61	14.51	15.26	15.37	15.33	15,42
. *									·				

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(2) (2)

TEN DAYS AND MONTHLY MEANS GAUGE

1

Station: DUEIM

River: White Nile

,		-		-								
i	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul	Aug.	Sep.	Oct.	Nov.	Dec.
i i	15.41	15.39	15.30	14.70	12.92	10.73	11.24	13,63	15.04	15.46	15.41	15.43
	15.38	15.36	15.21	14.19	12.12	10.91	11.59	14.53	14.98	15.41	15.36	15.51
	15.38	15.36	15.09	13.68	11.02	10.97	12.35	14.93	15.27	15.42	15.38	15.57
	15.39	15.37	15,20	14.19	12.02	10.87	11,73	14.36	15.10	15.43	15,38	15.50
a .												
	15.60	15.43	15.31	14.63	12.83	10.79	11.31	13.93	15.17	15.39	15.47	15.36
	15.53	15.40	15.26	14.12	11.88	10.88	11.99	14.58	15.30	15.45	15.21	15.44
	15.46	15.39	15.04	13.59	10.84	11.04	12.51	14.69	15,36	15.46	15.38	15.54
	15.53	15.41	15,20	1.1.11	11.85	10.90	11.94	14.40	15,28	15.43	15.32	15.45
'	-									,		
	15.45	15.37	15.40	14.89	12.94	10.70	11.27	13.93	15.40	15.54	15.47	15.42
	15.38	15.36	15,38	14,42	12.00	10.77	12.46	14.67	15.56	15.52	15.47	15.34
·	15.38	15.43	15.30	13.78	11.13	10.97	12.79	15.08	15.57	15.55	15.41	15.27
	15.40	15.39	15.36	14,36	12.02	10.81	12.17	14.56	15.51	15,54	15,45	15.34
1												
	Date - 10 - 20 - 20 - 20 - 20 - 20 - 20 - 20 - 2	15 15 15 15 15 15 15 15 15 15 15 15 15 1	Jan. 15.41 15.38 15.39 15.60 15.46 15.45 15.45 15.45 15.46 15.46 15.46	Jan. Feb. 15.41 15.39 15.38 15.36 15.39 15.37 15.53 15.40 15.53 15.43 15.546 15.39 15.45 15.37 15.38 15.43 15.45 15.37 15.45 15.37	Jan. Feb. Mar. Ap. 15.39 15.30 14. 15.41 15.39 15.30 14. 15.38 15.36 15.21 14. 15.53 15.40 15.20 14. 15.53 15.40 15.26 14. 15.53 15.41 15.20 14. 15.53 15.41 15.20 14. 15.45 15.37 15.30 14. 15.38 15.36 15.38 14. 15.38 15.36 15.38 14. 15.40 15.39 15.36 14.	Jan. Feb. Mar. Apr. 15.41 15.39 15.30 14.70 15.38 15.36 15.09 13.68 15.39 15.37 15.20 14.19 15.53 15.40 15.26 14.12 15.53 15.40 15.26 14.12 15.53 15.41 15.20 14.11 15.53 15.41 15.30 14.89 15.38 15.37 15.38 14.42 15.38 15.36 15.38 14.42 15.40 15.39 15.36 14.36	Jan. Feb. Mar. Apr. Nay 15.41 15.39 15.30 14.70 12.92 15.38 15.36 15.21 14.19 12.12 14.19 15.36 15.30 17.02 17.02 15.39 15.36 15.20 14.19 12.02 15.59 15.37 15.20 14.19 12.02 15.53 15.40 15.26 14.12 11.85 15.53 15.41 15.20 14.11 11.85 15.53 15.41 15.20 14.11 11.85 15.53 15.41 15.20 14.12 11.35 15.53 15.41 15.30 14.42 12.00 15.38 15.36 15.36 14.42 12.00 15.40 15.39 15.36 14.36 12.02 15.40 15.39 15.36 14.36 12.02	Jan. Feb. Mar. Apr. Nay Jun. 15.41 15.39 15.30 14.70 12.92 10.73 15.38 15.36 15.21 14.19 12.12 10.91 16.38 15.36 15.30 15.20 14.19 12.02 10.97 15.30 15.37 15.20 14.19 12.02 10.87 15.53 15.40 15.26 14.12 11.88 10.88 16.53 15.40 15.26 14.12 11.85 10.90 15.53 15.40 15.20 14.11 11.85 10.90 15.35 15.41 15.20 14.18 10.90 15.38 15.30 14.42 12.00 10.77 14 15.38 15.36 14.42 12.00 10.77 15 15.39 15.36 14.36 12.02 10.97 15 15 15.36 14.36 12.02 10.87	Jan. Feb. Mar. Apr. Nay Jun. Jul. 15.41 15.39 15.30 14.70 12.92 10.73 11.24 15.38 15.36 15.30 14.70 12.92 10.73 11.24 16.38 15.36 15.09 13.68 11.02 10.97 12.35 15.30 15.37 15.20 14.19 12.02 10.97 11.73 1 15.53 15.40 15.26 14.12 11.88 10.87 11.31 1 15.53 15.40 15.26 14.12 11.88 10.89 11.94 1 15.53 15.40 15.26 14.11 11.85 10.90 11.94 1 15.53 15.41 15.20 14.11 11.85 10.70 11.24 1 15.38 15.30 15.30 14.42 12.00 10.77 12.46 1 15.38 15.36 14.36 12.02 10.81 12	Jan. Fob. Mar. Apr. May Jun. Jul. Aug. 15.41 15.39 15.30 14.70 12.92 10.73 11.24 13.63 15.38 15.36 15.21 14.19 12.12 10.97 11.59 14.53 15.38 15.36 15.20 14.19 12.12 10.97 11.59 14.53 15.39 15.37 15.20 14.19 12.02 10.87 11.73 14.36 15.50 15.37 15.20 14.19 12.02 10.87 11.73 14.36 15.51 15.40 15.26 14.12 11.88 10.87 11.31 13.93 15.46 15.39 15.04 13.59 10.84 11.04 12.51 14.69 15.53 15.40 15.20 14.11 11.85 10.90 11.84 14.40 15.38 15.30 15.11 11.85 10.77 12.46 14.67 15.30 15	Jan. Fob. Mar. Apr. May Jun. Jul. Aug. Sep. O	Jan. Fob. Mar. Apr. Neay Jun. Jul. Aug. Sep. Oct. Nov. 15.41 15.42 15.20 14.77 12.92 10.73 11.24 13.63 15.44 15.46 15.44 15.44 15.44 15.44 15.44 15.44 15.44 15.44 15.46 15.46 15.46 15.46 15.46 15.47 15.27 14.19 12.55 14.93 15.47 15.24 15.36 15.42 15.36 15.53

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No. 24

TEN DAYS AND MONTHLY MEANS GAUGE

Station: DUEIM

River: White Nile

Г						I									Ī
	Dec.	15.38	15.34	15.34	15.35										
	Nov.	15.44	15.37	15.39	15.40									-	
	Oct.	15.37	15.40	15.45	15.41	-									
	Sep.	15.21	15.31	15.33	15.28			·			-		-		
	դոց.	14.05	14.58	14.93	14.52					·					
-	Jul.	11.49	12.06	13.01	12.19							•			
-	Jun.	11.02	11.04	11.07	11.04										
	Мау	13.84	12.89	11.63	12.79								-		
	Apr.	15.10	14.82	14.44	14:79										
-	Mar.	15.33	15.38	15.30	15:34										
-	Feb.	15.45	15.48	15.45	15.46										
-	Jan.	15.29	15.33	15.40	15.34						:				
	Date	1 - 10	11 - 20	21 – end	Mean		01 1	11 - 20	21 - end	Mean	1 - 10	11 - 20	21 - end	Mean	
	Year		7 7 7	0)41	<u>!</u>			I .		!		<u> </u>			

III Soil Mechanic Data

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To the second

						SOIL	PROFIL	.E						
	·		OF SCRVE YTTON 					SURVEY		JUN				
		GROU	ND ELEVAT	ION	378,2		m	GROUND	WATER	LEVEL	a dept	an hof	4.9	
	rs.		TUEV Fab	221	1.00		ASSIFICATIO							' - ; :
		(m)		(m)		12493F1041 3W	COLOR							:
		0.8		0.8		C	perpi- ish gray	MOOU	15 11	icluded;	стаску	•		
	1			0.9		S	yellow- ish gray	- Wood	is in	ncluded;	moist.			
	A STATE OF THE PERSON OF THE P	1.7				C	light gray in dry condi-	Crac	ky.	•				
	 .l 	3.2		1.5		1. 1	tion				·			
e le me medicante de la como estado de la como de la co						S	yellow- ish gray	Fine	sand;	moist.				
		4.9	· · :	1.7			:						· 	-
										·				
				-										
			:					•	٠					
						٠				·				
-													٠.	

	····	·		SOIL	PROFII	\-\{					
MAME	OF SURVI	EY 3 1 OOF				$\{A_i\}$	TE	JUN	. 1977		
LOCA	TION		2			SÚRVEYED L	3Y			•	
	ID FLEVA		376.7			GROUND-WAT	ER LEVE	Lo	wer than a depth of	1.	4 ~
		THORNESS	LOG	()	LASSIFICATIO	ON AND DESC	RIPTIÓN (DE M/	NTERIAL	7	WE TE
(m)	of chatten.	OF (m)	1113	(130 mar 12	COLOR		DESCR	PTIO:	1		 -3E
0.45	. *	0.45		C	gray	Cracky.					
				С	brown-	Cracky.	See s	oil	test data	•	
1.40		0.95			gray					:	
-					· · · · · · · · · · · · · · · · · · ·						
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		Transfer va								:	
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					;						
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					SOIL.	PROFI	LE	
		OF SURVE					DATE JUN. 1977	
]					2		SURVEYED BY Lower than GROUND-WATER LEVEL a depth of 8	3.65
		ELEV (Top)		1.00	ci.	ASSIFICATI	ION AND DESCRIPTION OF MATERIAL	17515
OEI (m		of stratum	25 257: 4 (m)	LOG	TEASSFIDATION	COLOR	DESCRIPTION	e se
0.			0.2		C.	gray	Cracky.	
The state of the s		:			C	gray	Moist, water content is lower than plastic limit. See soil test data.	
1.	45		1.25					
11.1.1.1	2				·			
				·				
								4.
14 THE	-						Supposition from a swedish sounding test.	
					C			;
i					÷			
1 .								
1								•
		1		, .				
-	-							
8.	65							<u>i.</u> :
			5.0		S		Supposition from a swedish sounding test.	
:								<u>.</u>
			**************************************			<u>.</u>		

- 189 -

		·			SOIL.	PROFI	LE	
	NAME	OF SURVE	Y & LOO	ИП14.			DATE JUN. 1977	
	LOCA	TION 1015 NO		4	:		GURVEYED RY	****
		ND ELEVA					GROUND-WATER LEVEL A depth o	f 1.45
	DEPTH	ELEV Top of stratum;	THICKNESS OF	LOG	(aL	ASSIFICATI	ON AND DESCRIPTION OF MATERIAL	TIEME OF
	(m)	-a	0.15		50.4895.041 M	COLOR	DESCRIPTION	. főt
1	0.15	: 	0.15		C C	gray gray	Somewhat sandy; cracky. Water content is higher	
4	0.65	! !	0.50	6 a e	<u> </u>	bnorn	than plastic limit.	 -
					S	brown	Worse gradation; moist. See soil test data.	
1				p e	۵			:
in the last	1.8		1.15					
+			0.65		, S .	yellow- ish brown	worse gradation; moist. S	See
-1 -1 -1 -1	2.45 2.55		<u> </u>		S	gray	Fine sand; worth gradation moist.	
		· •					morso.	
1								
-						ŧ	Supposition from a swedish	: 1
		:					sounding test	
; :		:						
:		: . :			S	r		
		: : :						
-	ŧ		•			· · · · · · · · · · · · · · · · · · ·		:
		i						
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		i 				:		
	:				:	:		*
	7.25							
	1.49							
	:							•
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					SOIL.	PROFIL	E	
-	NAME	OF SCRVE	EY & LOO	ή [:] τΑ			DATE JUN. 1977	
	LOCA	THE NO.		5			SURVEYED BY	
	GROUI	ND ELEVA	TION	378.	2	<u>m</u>	GROUND WATER LEVEL a depth	n _of 3.3 ~
	DEPTH	r at stratura i .	THICKNESS	t.og	i d.	\SSIFICATIO	ON AND DESCRIPTION OF MATERIAL	∴ in Mei€o
1	(m)	19	(m)		CL338 C410N	COLOR	DESCRIPTION	<u>) E</u>
					C	gray	Cracky; fossil shell is included in lowermost par	t.
	!		1.3 ~2.5		000000000			
	1.3		1.3 ~0.1		S	light gray	Particle size is less tha 1 mm; many laminae of san particle size is 1~2 mm are included; dry	d -
	2.6		. ~0.1			grayish		n
	3.25 3.30		0.65			brown yellowish gray	2 mm; moist.	

- 191 ---

			·		SOIL	PROFIL	E	
			Y 5 (00)	WIIY III			JUN. 1977	
ĺ	LOCA	HOEF NO	***************************************	6 -			EMBARARD BA	,,
	GROU	ND ELEVAT					A depth of GROUND-WATER LEVEL $0.5-1.0$	
-		ELEV Clos			n.		ON AND DESCRIPTION OF MATERIAL	##ETER
	(m)	of shallen	зтратым	1,0G	67,453888 A1 (34)		DESCRIPTION	n (M Milit
-	0.1		$\frac{o(\Phi)}{o(\Phi)}$		С	gray	Cracky	
į	0.3	:	0.2		C	gray	Moist, water content is lower - than plastic limit.	
	* · · · · · · · · · · · · · · · · · · ·		1.15		C	gray	Maximum particle size is 2 mm; water content is higher than plastic limit (Wn > PL) See soil test data.	:
	1.35		0.35		C	brownish gray		
	1.7		0.4	• • •	S .	graynish brown		
- - - - - -	2.1		0.7		С	gray	Wn > PL. See soil test data.	
	2.8		0.95		С	gray	Wn > PL. See soil test data.	
	<u>:</u> 3.73							-
		· .			•	·	Supposition from a swedish sounding test.	
					C			-
	2	1						
	:				:			
			3.00					-
	6.75		0.75		S		Supposition from a swedish sounding test.	-
	7.50							
	•					: :-		
		: 		4				• .
1		1	: :			:		
				-				:
-	· ·				-	·		
	•				-	•		
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					SOIL.	PROFI	LE
	LOCATION #DEE NO.						DATE JUN. 1977 SURVEYED BY
ĺ							GROUND-WATER LEVEL A depth of 2.4
	2557		THE KNESS	LCG	Ct.	ASSIFICATI	ON AND DESCRIPTION OF MATERIAL METER
	(m)	र्था अवस्था। च	0F 51945 M (m)	LCG	51,485 F80A F6N		
. [0.2		0.2		С	gray	Maximum particle size is 5 mm; cracky.
2	2.5		2.3		C	gray	Water content is higher than plastic limit; roots are included in a depth from 1.2 m to 1.6 m. See soil test data.
3					C	brown- nish gray	Water content is higher than plastic limit.
5	5.0		2.5		S	grayish	Maximum particle size is 5 mm;
						brown	saturated with water.

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	maarinaminin kana ni arabaay		:		JOIL	PROFI		
	LOCA	TION	Y & CCA				DATE June 1977 SURVEYED SY	
	GROUI	ND ELEVA	IION .	375.2		<u>.m</u>	Lower than GROUND WATER LEVEL a depth o	
		ELEV -Top of stratum		LOG			ON AND DESCRIPTION OF MATERIAL	r Ga Gawelle
	(m)		- (m) ^M - 0.1		THASS FROM TONE			ńik č
	0.1		Į.		C	gray	Cracky	
1 7 7	;		e al average de la companya de la co		C	gray	Water content is higher tha	n PL
-								
	1.78		1.68	<u> </u>	!			
	operate of							:
	- · ·				,		Supposition from a Swedish	: :
				-	./. :		Sounding test	
			To the second se		c	+1		
	· ·		20 //					-
 		,			Prince Prince Company			
1	. :							
	; ;	-				•		
	:							· · · · · · · · · · · · · · · · · · ·
	7.45						Supposition from a Smadish	1
;	7.51	:			S		Supposition from a Swedish sounding test	
; ; ;								
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		Meridaka ke ang paganyan <u>ang pagang a</u> anan pan	1		SOIL	PROFI	LE			
	HAME	OF SURM	EY & LOO	ATTN .		DATE June 1977				
	LOCATION +icht-NO						SURVEYED BY			
	GROU	IND ELEVA	TION	374.7		nı	GROUND-WATER LEVEL 3.2m (supposi	tion)		
	STOTIL	tiLEV (Top of stratum)	: THICKNESS	t eg	CL	ASŞIFICATI	ON AND DESCRIPTION OF MATERIAL	I WELLER		
	(m)	or stratum	(m) 0.2	, V. V. I	004001104104		DESCRIPTION	#37LE		
	0.2	1	0.2		Č	gray	Max. particle size is 2mm; cra	reky		
1					C	gray	Max.particle size is 2mm; water content is higher than I (Wn > PL).	PL		
	-1.5		0.5	:	С	brownis gray				
2	-2.0		!			İ	5mm; Wn PL.	1		
								- i 1		
3				v movement of the second		:	Supposition from a swedish sounding test.	1 Feb. 400		
	- - 			1						
4		•			C			<u>.</u>		
		!				<u>.</u>	<u>.</u>			
5	_		:	.						
) 1 1 1								
6		:								
	6.25				s		Supposition from a swedish sounding test			
7	7.07		:							
		; ;				: :				
				1						
	-	*								
		1 -				· :		; -		
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	t				•	1				
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				 	PROF	II.E
LOCA'	TION	EY & LOOM				DATE June 1977.
	MD ELEVAI	řión <u> </u>	375.2		n)	GROUND-WATER LEVEL a depth of 5.5
"Store) The	el statum		LOG	Cl.	ASSIFICAT	TION AND DESCRIPTION OF MATERIAL DEV
(m)	of statum)	(m) M	t.cu	EUSSEENATUR	COLOR	· · · · · · · · · · · · · · · · · · ·
; ; ;		, ,		С	gray	Max. particle size is 5 mm; Moist, water content is lower than PL.
0.8		0.8			gray	Max. particle size is 2 mm; water
1.3	· · · · · · · · · · · · · · · · · · ·	0.5		C	partly bluish	content is higher than PL. See soil test data.
-		!			gray	
	7					•
-		1				
					14	Supposition from a swedish sounding test
_ ;		ļ		7		
		and the second s	and the second s	С		
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		i .	-			
7.25				S	1	Supposition from a swedish sounding test
		to de delectronico		: !		
8.50	<u></u>					
:				; !		
:	. ;			1		
:				· ·		

				SOIL	PROFI	LE	
LOCA	OF SURVEY ATION HOLE NO NO ELEVATE		11		2)	DATE June 197 SURVEYED BY Lover GROUND-WATER LEVEL a dep	than
	, PLEV Top !			{	CLASSIFICATI	ON AND DESCRIPTION OF MATERIA	Γ , 7λ.Ε.
(m)	or stratum n	$(m)^{m}$	176	10184F0-10	· COLOR	DESCRIPTION	
		0.6		С	bluish gray	Cracky in upper part, m lower part, water conte than PL. (Wn \le PL).	
0.6	· · · · · · · · · · · · · · · · · · ·	0.4		S	light grayish	Fine sand; moist	
- 1.0 1.15		0.15		C	hanni	Wn < PL.	1
1.40	:	0.25		S	light grayish prown	Fine sand; moist	
				C		Wn < PL.	
		!					
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	· !	:					
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			A PART TO A PART				· · · · · · · · · · · · · · · · · · ·
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SWEDISH SOUNDING TEST

FOR REPORTING

	MA	ME (OF SUR	RVEY & LOCALITY				GROUND ELEVA	TION 376	<u>.7</u>					
	LC	CAI	ION	2	<u> </u>		•	GROUND WATER	LEVEL	ın	CHE	ECKED B	Y		
	DA	VIE.		June 1977	7			TOTAL DEPTH	1.50	m	TES	TED BY			
3		Ŧ	G.	DESCRIPTION OF	-	NO). OF	HALF ROTATION	PER METE	ER (Nsi	w)				
ELEVATION		SEPTH	ESTINATED LOG	MATERIAL.	,Wsw/	0 20 4	40	60 30	100	<u>;</u>	200	300	100	500 600	900
ä.	m	l m	편 33		WEIGHT (44) 0.5-25 59 75	100									
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		VAME	OF SUR	RVEY & LOCALITY	·	GROUND ELEVATION 377.2	2_
	-	LOCA	TION	3		GROUND-WATER LEVEL 1	n CHECKED BY
		DATE		june 19	77	TOTAL DEPTH 8.67 m	n TESTED BY
14.00 40.0113	r CLE SELO	HIGHE		DESCRIPTION OF MATERIAL	NO. OF (Wsw) 0 20 40 WEIGHT (Ap.) 0 5 25 50 75 100	HALF ROTATION PER METER 60 80 100	(Nsw) 200 300 400 500 600 203
		2 3 4 6		Clay;Wn <pl< td=""><td></td><td></td><td></td></pl<>			
		7 7 3 10		Sand			
		13					
		7 0			- 1	99 -	

, Selle .		JAME	OF SUR	VEY & LOCALITY					GROUN	D ELEVA	מיים אמו	76.7					
		LOCA!	ION	4						D-WATER						.— <u></u>	
·		DATE		June 19	77				TOTAL	DEPTH	7.	25 m	TES	TED BY			
SE EVATION	i m	J. DEPTH	ESTIMATED LOG	DESCRIPTION OF MATERIAL	(Wsw) WEIGHT (4) 0 6 25 50 75	0	20	NO. OF	HALF F	ROTATION (%)	PER ME	ETER (A	200	300	400	500 600	300
				Clay:Wn>PL		- L											
		1	i	Sand					<u> </u>		1						
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FOR REPORTING GROUND ELEVATION 376.2

DEPTHO.5GROUND WATER LEVEL 1.00 NAME OF SURVEY & LOCALITY CHECKED BY LOCATION 7.50 m TOTAL DEPTH TESTED BY June 1977 DATE ESTIMATED LOG ELEVATION 3 3 DEPTH NO, OF HALF ROTATION PER METER (Nsw.) DESCRIPTION OF 400 500 600 300 300 MÄTERIAL (Wsw) WEIGHT (4) 0.5.25 50 75 100 Clay; WaseL Clay; Wn>PL Sand Clay; Wn>PL Sand 8. 16 18 201 -

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GROUND ELEVATION 376.2

DEPTH
GROUND WATER LEVEL 2.4 m NAME OF SURVEY & LOCALITY CHECKED BY LOCATION TOTAL DEPTH 4.77 TESTED BY DATE June 1977 ESTIMATED LOG ELEVATION 3 9 DEPTH NO. OF HALF ROTATION PER METER (Nsw) DESCRIPTION OF MATERIAL (Wsw) WEIGHT (4) 0 5 25' 50 75 100 Clay; Wn>PL Sand lô. - 202 -

		NAM	E (DE SUR	VEY & LOCALITY				- 	GROUI	VD ELEV	ATION 375	.2			-		
	-	LOC	: :ATI	ON	8					GROU	ND-WATER	LEVEL	m	CHE	CKED B	Υ		
	-	DAT	Ε		June 197	7			·	TOTAL	DEPTH.	7.51	m	TES	TED BY			
37.0		an : [:	3 OEPTH	ESTIMATED LOG	DESCRIPTION OF MATERIAL	_Wsw.\ WEIGHT _ ~;	0	20	NO. OF	HALE 60	ROTATION 80	PER METE		200	300	400	500 600	3 00
			2 3 4 5 6		Clay; Wn>F	5 5 25 50 75												
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•	NAME	OF SU	RVEY & LOCALI	TY	,	GR	OUND ELEV	ATION 374.7				
	1.00/	ATION	9				ROUND-WATER	R LEVELm		CKED BY	~~~~~~	
	DATE	· ·	June	1977		10	TAL DEPTH	7.07 m	TEST	ED BY		
ELEVATION	n 050	10	DESCRIPTION MATERIAL	OF (Wsw) WEIGHT (Ag 0 5 25 50 75	0 20		LE ROTATION	I PER METER (I	Nsw) 200	300 400	500 600	8Ç9 <u></u>
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	1	MAME	OF SUR	RVEY & LOCALITY	<u> </u>		·	GROUND Et	LEVATION	ON 375	.2					
		LOCAT	ION	10				GROUND-WA					CKED B			
ŕ		DATE		June 197	7			TOTAL DEP	TH	8.50		TEST	ED BY			
	ELEVATION B	3 DEPTH	10	DESCRIPTION OF MATERIAL	(Wsw) WEIGHT (均) 0.5.25—50.75	0 20	NO. OF	HALF ROTA		ER-METE		w) 290	3,70	400	500 600	800
		2-	C	lay;Wn⟨PL Clay;Wn⟩PL			-									
		3-4-5-5-						ار کا ا				•				
		7. 80 gs		Sand	and the second s				⇒ .		·	<u></u>				
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SUMMARY OF SOIL TEST (RELEVÉ DES ESSAIS DES SOLS)

FOR SEPORING

WARE TO STRIKE A ROCALITY STRIKE TO SALITE

RICE DEVELOPMENT PROJECT IN ABU GASABA BASIN, SUDAN

	. V.Π.Γ.Ο Σ Σ τ.Ε. ΝΟ	in the effectiventices.		2	3	4	4	6
SAM	PLE DEF	PTH (PROFONDEUR DE L'ÉCHANTILLON)	(13)	0.45~1.4	0.2~1.45	0.65~1.8	1.8-2.45	0.3 -1.35
:	BRAVEI	(GRAVIER)	(00)	0	0	0	0	0
, l d	SWD	(SABLE)	(°6)	3	3	81	86	15
। । भृष्ट	GLI	(SI.T)	(%)	47	56	4	6	45
X (5)	CLAY	(ARGILE)	(%)	50	41	15	8	40
Ś	MAX, D	GAMETER (DIAMÈTRE MAX.)	(7241)	2.00	2.00	4.76	4.76	2.00
		CIENT OF UNFORMITY CIENT D'UNFORMITÉ)	Uc	>11	>17	>180	36	> 24
		(CIENT OF CURVÂTURE (CIENT DE COURBURE)	Uc			> 80	7.7	> 0.04
≻ ເມ	LIQUID	LIMIT (LIMITE DE LIQUIDITÉ)	w. (%)	61.0	103.3	23.2	20.1	84.1
TANCE	PLASTR	C LIMIT (LIMITE DE PLASTICITÉ)	w ₀ (%)	24.6	28.2	12.9	11.9	22.9
SSNSS	PLASTI	CITY INDEX (INDICE DE PLASTICI)	だ)lp 	36.4	75.1	10.3	8.2	61.2
				l	!!			
	JAPAN	V UNIFIED SOIL CLASS	IFICATIO	N CH	СН	sc	S-C	СН
	JAPAN	UNIFIED SOIL CLASS	IFICATIO	N CH	СН	sc	S-C	СН
.0)	-	V UNIFIED SOIL CLASS		N CH 2.740	СН 2.709	SC 2.664	S-C 2.661	CH 2.709
spec	OFIC GRA	IVITY OF SOL (POIDS SPÉCIFIQUE CONTENT (TENEUR EN EAU)	DU SCL.)Gs					
STAIL ()FAL)	WATER WET D	IVITY OF SOL (POIDS SPÉCIFIQUE CONTENT (TENEUR EN EAU) DENSITY (DENSITÉ HUMIDE)	DU SCL.)Gs	2.740	2.709	2.664	2.661	2.709
STAIL ()FAL)	WATER WET D	IVITY OF SOL (POIDS SPÉCIFIQUE CONTENT (TENEUR EN EAU) DENSITY (DENSITÉ HUMIDE) RATIO (INDICE DES VIDES)	DU SCL)Gs w (%) 7, (g/m ¹) e	2.740	2.709	2.664	2.661	2.709
spec	WATER WET D	IVITY CF SOL (POIOS SPÉCIFIQUE R CONTENT (TENEUR EN EAU) BENSITY (DENSITÉ HUMIDE) RATIO (INDICE DES VIDES) ECF SATURATION (DEGRÉ DE SATURA	DU SCL) Gs w (%) % (g/m²) e ATION) Sr (%)	2.740	2.709	2.664	2.661	2.709
STAIL ()FAL)	WATER WET D	IVITY OF SOL (POIDS SPÉCIFIQUE CONTENT (TENEUR EN EAU) DENSITY (DENSITÉ HUMIDE) RATIO (INDICE DES VIDES)	DU SCL) Gs w (%) % (g/m²) e ATION) Sr (%)	2.740	2.709	2.664	2.661	2.709
NATURAL STATE (STAT NATURAL)	WATER WET D	IVITY OF SOL (POIDS SPÉCIFIQUE CONTENT (TENEUR EN EAU) DENSITY (DENSITÉ HUMIDE) RATIO (INDICE DES VIDES) OF SATURATION (DEGRÉ DE SATURA COMPRESSIVE STRENGTH (RÉSISTANCE À LA COMPRESSION) MODULUS OF ELASTICITY (MODULE D' ÉLASTICITÉ) SENSITIVITY RATIO	DU SCL) Gs w (%) % (g/m¹) e ATION) Sr (%) Qu (4/6-2)	2.740	2.709	2.664	2.661	2.709
NATURAL STATE (STAT NATURAL)	WATER WET DOOR R DEGREE WOOD R DEGREE WOOD SALE WOOD WOOD WOOD WOOD WOOD WOOD WOOD WOO	IVITY OF SOL (POIDS SPÉCIFIQUE CONTENT (TENEUR EN EAU) DENSITY (DENSITÉ HUMIDE) MATIO (INDICE DES VIDES) OF SATURATION (DEGRÉ DE SATURA COMPRESSIVE STRENGTH (RÉSISTANCE À LA COMPRESSION) MODULUS OF FLASTICITÉ)	DU SCL)Gs m (%) 7i (g/m ¹) e ATION)Sr(%) Qu (4j/m ²) Eso (4j/m ²)	2.740	2.709	2.664	2.661	2.709
FOANOUES) (STAT NATURAL)	WATER WET D VOID FR VOIS SAINTS OCHOROLOGIS WESSCHOOL WINNESSCHOOL WET VOIS SAINTS OCHOROLOGIS WET VOID FR VOIS SAINTS OCHOROLOGIS WET VOID FR VOIS SAINTS OCHOROLOGIS WET VOID FR VOIS SAINTS OCHOROLOGIS WET VOID FR VOIS SAINTS OCHOROLOGIS WET VOID FR VOIS SAINTS OCHOROLOGIS WET VOID FR VOIS SAINTS OCHOROLOGIS WET VOID FR VOIS SAINTS OCHOROLOGIS WET VOID FR VOIS SAINTS OCHOROLOGIS WET VOID FR VOIS SAINTS OCHOROLOGIS WET VOID FR VOIS SAINTS OCHOROLOGIS WET VOID FR VOID FR VOIS SAINTS OCHOROLOGIS WET VOID FR VOID FR VOIS SAINTS OCHOROLOGIS WET VOID FR VOI	IVITY OF SOL (POIDS SPÉCIFIQUE CONTENT (TENEUR EN EAU) DENSITY (DENSITÉ HUMIDE) RATIO (INDICE DES VIDES) CF SATURATION (DEGRÉ DE SATURA COMPRESSIVE STRENGTH (RÉSISTANCE À LA COMPRESSION) MODULUS OF ELASTICITY (MODULE D' ÉLASTICITÉ) SENSITIVITY RATIO (INDICE DE SENSITIVITÉ)	DU SCL)Gs m (%) 7i (g/m ¹) e ATION)Sr(%) Qu (4j/m ²) Eso (4j/m ²)	2.740	2.709	2.664	2.661	2.709
FOANGERHES (ETAL NATURAL) S	WATER WET D VOID FR VOID FR VOISSELENCO ** (2)	IVITY OF SOL (POIDS SPÉCIFIQUE CONTENT (TENEUR EN EAU) DENSITY (DENSITÉ HUMIDE) RATIO (INDICE DES VIDES) CF SATURATION (DEGRÉ DE SATUR COMPRESSIVE STRENGTH (RÉSISTANCE À LA COMPRESSION) MODULUS OF ELASTICITY (MODULE D' ÉLASTICITÉ) SENSITIVITY RATIO (INDICE DE SENSITIVITÉ) TYPE OF TEST (TYPE DE L' L' COHESION (COHÉSION) ANGLE OF INTERNAL FRICTION ANGLE DE FROTTEMENT INTERN	DU SCL)Gs $m = ({}^{o}Z)$ $7_{L} = (g/m^{4})$ 8 ATION)Sr(${}^{o}G$) 9 9 9 9 9 9 9	2.740	2.709	2.664	2.661	2.709
FOANGERHES (ETAL NATURAL) S	WATER WET D VOID R DEGREE NOISSEARMOD ** (1) (2)	IVITY OF SOL (POIDS SPÉCIFIQUE CONTENT (TENEUR EN EAU) DENSITY (DENSITÉ HUMIDE) RATIO (INDICE DES VIDES) CF SATURATION (DEGRÉ DE SATUR COMPRESSIVE STRENGTH (RÉSISTANCE À LA COMPRESSION) MODULUS OF ELASTICITY (MODULE D' ÉLASTICITÉ) SENSITIVITY RATIO (INDICE DE SENSITIVITÉ) TYPE OF TEST (TYPE DE L' L' COHESION (COHÉSION) ANGLE OF INTERNAL FRICTION ANGLE DE FROTTEMENT INTERN	DU SCL)Gs $m = ({}^{o}Z)$ $7_{L} = (g/m^{4})$ 8 ATION)Sr(${}^{o}G$) 9 9 9 9 9 9 9	2.740	2.709	2.664	2.661	2.709
STAIL ()FAL)	WATER WET D VOID FR VOID FR VOISSELENCO XXVIVE XXV	IVITY OF SOL (POIDS SPÉCIFIQUE CONTENT (TENEUR EN EAU) PENSITY (DENSITÉ HUMIDE) RATIO (INDICE DES VIDES) CF SATURATION (DEGRÉ DE SATURA COMPRESSIVE STRENGTH (RÉSISTANCE À LA COMPRESSION) MODULUS OF ELASTICITY (MODULE D'ÉLASTICITÉ) SENSITIVITY RATIO (PIÈCE DE SENSITIVITÉ) TYPE OF TEST (TYPE DE L' COHESION (COHÉSION)	DU SCL)Gs $m = ({}^{o}Z)$ $7_{L} = (g/m^{4})$ 8 ATION)Sr(${}^{o}G$) 9 9 9 9 9 9 9	2.740	2.709	2.664	2.661	2.709

¹⁹ OVER THE SYMBOL SHOWS THE MEASUREMENT OF PORE WATER PRESSURE
LE TRAIT AU DESCUS OU SYMBOL MONTRE. LA PRESSION DE L'EAU INTERSTITIELLES

MAME OF STRVEY & LOCALITY TO MEASON, THE ENGRED OF COMMUNES

RICE DEVELOPMENT PROJECT IN ABU GASABA BASIN, SUDAN

	ATTON BELLING			6	6	. 7	10	
SAM	PLE DEF	PTH (PROFONDEUR DE L' ÉCHANTILLON)	(12)	2.1~2.8	2.8~3.75	0.2-2.5	0.8-1.3	
	GRAVE	L (GRAVIER)	(%)	. 0	0	1	0	
	Sano	(SABLE)	(%)	78	15	6	7	
₹ ₩	SLT	(SLT)	(%)	6	47	25	46	
きき きき	CEAY.	(ARGILE)	(°;)	16	38	68	47	
3 (3)	MAX 0	HAMETER (DIAMETRE MAX.)	(55)	2.00	2.00	9.52	4.76	· !
		CIENT OF UNFORMITY ICIENT D'UNFORMITÉ)	Uc	>260	> 26	>1.6	> 14	
		ICIENT OF CURVATURE ICIENT DE COURBURE)	Uc	> 65	> 0.12	_		
≻ <u></u>	Liquid	LIMIT (LIMITE DE LIQUIDITÉ)	wi (%)	29.3	66.1	94.2	70.4	-
TENC	PLASTI	C LIMIT (LIMITE DE PLASTICITÉ)	wp (%)	12.4	22.7	29.5	21.9	
CONSISTENCY CONSISTANCE J	PLASTI	CITY INDEX (INDICE DE PLASTICIT	É) lp	16.9	43.4	64.7	48.5	
0.	: :						· · ·	
: ::	JAPAì	N UNIFIED SOIL CLASSI	FICATIO	n sc	СН	СН	СН	
						<i></i>		
SPE	OFIC GRA	AVITY CE SOIL (POIDS SPÉCIFIQUE D	au sor ige il	2.681				
			0 000,00	2.001	2.707	2.695	2.707	
도를.	WAIEF	CONTENT (TENEUR EN EAU)	$v = \begin{pmatrix} o_5 \end{pmatrix}$	18.0	2.707	2.695 38.8	2.707 25.8	· · · · · · · · · · · · · · · · · · ·
I STATE ATORALD					!; !		·	
TURAL STATE AT NATURALS	WETE		w (%)		!; !		·	
NATURAL STATE (ETAT NATURAL)	WET E	PENSITY (DENSITÉ HUMIDE)	w (25) γ _t (g/m³) e		!; !		·	
MATURAL STATE (ETAT NATURAL)	WET E	PENSITY (DENSITÉ HUMIDE) RATIO (INDICE DES VIDES) OF SATURATION (DEGRÉ DE SATURA)	w (25) γ _t (g/m³) e		!; !		·	
RATURAL STATE (ETAT NATURAL)	WET E	PENSITY (DENSITÉ HUMIDE) RATIO (INDICE DES VIDES) OF SATURATION (DEGRÉ DE SATURA) COMPRESSIVE STRENGTH (RÉSISTANCE À LA COMPRESSION)	w (°5) γι (g/m³) e EON)Sε(°6)		!; !		·	
RES.	WET E	PENSITY (DENSITÉ HUMIDE) RATIO (INDICE DES VIDES) OF SATURATION (DEGRÉ DE SATURA) COMPRESSIVE STRENGTH (RÉSISTANCE À LA COMPRESSION) MODULUS OF ELASTICITY (MODULE D' ÉLASTICITÉ)	m (%) 7t (g/m³) e BON)St(%) Gu (4g/m²)		!; !		·	
RES.	UNCOMPINED COMPINESSION COMP	PENSITY (DENSITÉ HUMIDE) RATIO (INDICE DES VIDES) OF SATURATION (DEGRÉ DE SATURA) COMPRESSIVE STRENGTH (RÉSISTANCE À LA COMPRESSION) MODULUS OF ELASTICITY (MODULE D' ÉLASTICITÉ) SENSITIVITY PATIO	m (%) 7i (g/m1) e HON)Sr(%) Gu (kg/m2) Eso (kg/m2) St		!; !		·	
RES.	CONNECTION DE CO	PENSITY (DENSITÉ HUMIDE) RATIO (INDICE DES VIDES) OF SATURATION (DEGRÉ DE SATURA COMPRESSIVE_STRENGTH (RÉSISTANCE À LA COMPRESSION) MODULUS OF ELASTICITY (MODULE D' ÉLASTICITÉ) SENSITIVITY RATIO (INDICE DE SENSITIVITÉ) TYPE OF TEST (TYPE DE L' É	m (%) 7i (g/m1) e HON)Sr(%) Gu (kg/m2) Eso (kg/m2) St		!; !		·	
RES.	WE TO THE WORK TO	PENSITY (DENSITÉ HUMIDE) RATIO (INDICE DES VIDES) OF SATURATION (DEGRÉ DE SATURA COMPRESSIVE, STRENGTH (RÉSISTANCE À LA COMPRESSION) MODULUS OF ELASTICITY (MODULE D' ÉLASTICITÉ) SENSITIVITY RATIO (INEXCE DE SENSITIVITÉ) TYPE OF LEST (LYPE DE L' E	w (%) 7e (g/m³) e HON)Se(%) Gu (kg/m²) Eto (kg/m²) St SSAI) ** ** C (kg/m²)		!; !		·	
RES.	VET 1. VOID REE (NOISSENDON) # 1 (2)	PENSITY (DENSITÉ HUMIDE) RATIO (INDICE DES VIDES) OF SATURATION (DEGRÉ DE SATURA COMPRESSIVE STRENGTH (RÉSISTANCE À LA COMPRESSION) MODULUS OF ELASTICITY (MODULE D' ÉLASTICITÉ) SENSITIVITY RATIO (MEACE DE SENSITIVITÉ) TYPE OF TEST (TYPE DE L' E COHESION (COHÉSION)	w (%) 7ε (g/m³) e HON)Sε(%) Gu (kg/m²) St SSAI) *** C (kg/m²)	18.0	!; !		·	
MECHANACAL PROPERTIES: MATURAL STATE (PROPERTÉS MECANIQUES). (ETAT NACURAL)	VET 1. VOID REE (NOISSENDON) # 1 (2)	PENSITY (DENSITÉ HUMIDE) RATIO (INDICE DES VIDES) OF SATURATION (DEGRÉ DE SATURA) COMPRESSIVE, STRENGTH (RÉSISTANCE À LA COMPRESSION) MODULUS OF ELASTICITY (MODULE D' ÉLASTICITÉ) SENSITIVITY RATIO (INEXCE DE SENSITIVITÉ) TYPE OF LEST (LYPE DE L' E COHESION (COHÉSION) AMOLE OF INTERNAL FRICTION (ANGLE DE FROITEMENT INTERNE VIELD STRESS OF CONSOLIDATION (LAMIE D' ÉLASTITÉ DE CONSOLIDATION (LAMIE D' ÉLASTITÉ DE CONSOLIDATION (CAUTOGRESON'AL INDEX	w (%) 7ε (g/m³) e HON)Sε(%) Gu (kg/m²) St SSAI) *** C (kg/m²)	18.0	!; !		·	
RES.	ONCOMPRESSION ON CONFINENCIA ON CONF	PENSITY (DENSITÉ HUMIDE) RATIO (INDICE DES VIDES) OF SATURATION (DEGRÉ DE SATURA) (COMPRESSIVE_STRENGTH (RÉSISTANCE À LA COMPRESSION) MODULUS OF ELASTICITY (MODULE D' ÉLASTICITÉ) SENSITIVITY RATIO (INEXCE DE SENSITIVITÉ) TYPE OF TEST (TYPE DE L' É COHESION (COHÉSION) ANGLE OF INTERNAL FRICTION (ANGLE DE FROTTEMENT INTERNE VIELD STRESS OF CONSOLIDATION (LIMITE D' ÉLASTITÉ DE CONSOLIDATION (COMPRESSION INDEX	w (%) 7e (g/m²) e HON)St(%) Gu (kg/m²) Eso (kg/m²) St SSAI) * * * * C (kg/m²)] \$\psi\$ (*) HON) \$\partial P(kg/m²)\$ HON] \$\partial P(kg/m²)\$	18.0	!; !		·	

LIP GATER THE SYMBOL SHOWS THE MEASUREMENT OF PORE WATER PRESSURE (LEFT HAVE AU DESCUS OU SYMBOL MONTRE). LA PRESSION DE L'EAU INTERSTITIELLE ()

NAME OF SURVEY, & LOCALITY

RICE REAFLOPMENT PROJECT IN ABC GASARA BASIN, SUDAN

		LOCATION NO.	2	7	. 4
		SAMPLE DEPTH (m)	0.45-1.4	0.2-2.5	0.65-1.8
		CIASSIFICATION	CH:	СН	80
		ENERGY **	1 Ee	1 Fc	1 Ee
	RSL HR ENT	WYTER CONTENT (%)	12.7	38.8	9.5
NO.	MATURAL WATER CONTENT	WET DENSITY (g/cm ³)	1.533	1.752	1.869
COMPACTON	X O	DRY DENSITY (g/cm ³)	1.360	1.262	1.707
MEN	LN	ERGY. **	1 Ec	1 Ee	1 Ee
၁	OPTE	CM WATER CONTENT(5)	27.0	34.4	15.5
		CM DRY DENSITY (g cm)	1,456	1.294	1.738
NE.	NATURAL MATUR CONTEXT	ENERGY **	1 Ec	l Ec	1 Ec
CONE	X0.0 XVI. LLVX	CONE RESISTENCE (kg/cm²)	>17	4.7	6.3
T.Y.		ENERGY **	1 Ec	1. Ec	1 Ec
BILI	NATURAE WATER CONTENT	COEF, OF PERMEABILITY (cm. sec)	2 x 10 ⁻⁷	5 x 10 ⁻⁹	6 x 10 ⁻⁴
MEA	NATI FA CON	ENERGY **			• 2 Ee
ਮੁਤਮ		COEP.OF PERMEABILITY (cm/sec)			3 x 10 ⁻⁴
No.		CONSOLIDATION PRESSURE(kg. cm2)		1.0	
UAT	aa E er en	COMPRESSIBILITY (em ² /kg)		5.8x10 ⁻²	
:011	NATURAL NATER CONTENT	COEF.OF CONSOLIDATION(cm2/min)		1.8x10 ⁻³	. 1.
CONSOLIDATION PERMEABILITY		COEF.OF PERMEABILITY (em min)		$1.1 \text{x} 10^{-7}$	
		EXERGY **	l Ee	1 Ec	1 Ec
	ENT	WET DENSITY (g/cm ³)	. 1.53	1.77	1.87
	NATCRAL WATER CONTENT	DRY DENSITY (g/cm ³)	1,36	1.28	1.69
) #3	WATER CONTENT (35)	12.7	38.7	10.4
	WAT	DEGREE OF SATURATION (4)	100	100	100
NO	RAL	TYPE OF TEST *	w	æ	CD
CONGNESSION	WTC.	COMESION (kg/cm ²)	0.17	0.115	0.1
24.65		ANGLE OF INTERNAL FRICTION(O)	1.0	0	32
} ·		EXERGY **			1 Ec
TRIAXIAL	# · · · · · · · · · · · · · · · · · · ·	WET DENSITY (g/cm3)			2.00
IAX		DRY DENSITY (gigm³)			1.71
E.		WATER CONTENT (3)			17.1
		DEGRUE OF SATURATION (1)	·····		100
		TYPE OF TEST +		· · · · · · · · · · · · · · · · · · ·	CD
		COHESION (kg/cm²)			0.13
		ANGLE OF INTERNAL FRICTION(O)			30

UU: UNCOSOLIDATED, UNDRAINED COMPLITION
 CD: CONSOLIDATED, DRAINED COMPLITION

^{** 1}Ec EXPRESS THE PROCTOR'S STANDARD EVERGY.

GRADATION ANALYSIS (ANALYSE GRANULOMÉTRIQUE)

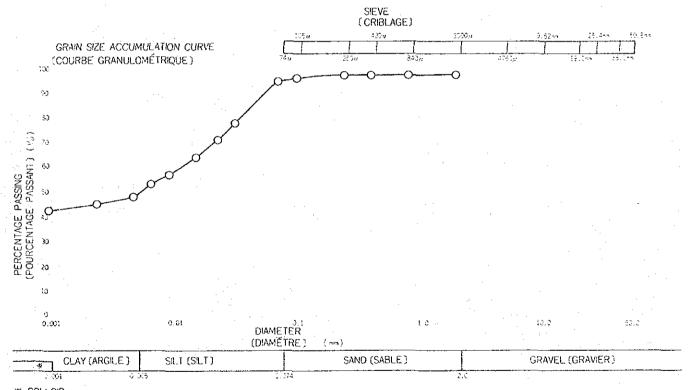
FOR REPORTING (POUR LE PAPPORT)

the commence of the commence o				
NAME OF SURVEY & LOCALITY			DATE	
LOCATION OF C ENQUETE ET LOCALITÉ)			(DATE)	Aug. 1977
LOCATION & DEPTH			TESTED BY	
DA OF THE SEMANTER ON FEE PROFONDEURS	2	(0.45 m - 1.40 m)	(ESSAL PAR)	·

PARTICLE SIZE & WEIGHT PERCENTAGE OF PARTICLES UNDER THE SIZE (DIMENSION DES PARTICULES ET POURCENTAGE DE POIDS DES PARTICULES DE DIMENSION INFÉRIEURE AUX PRÉCÉDENTES).

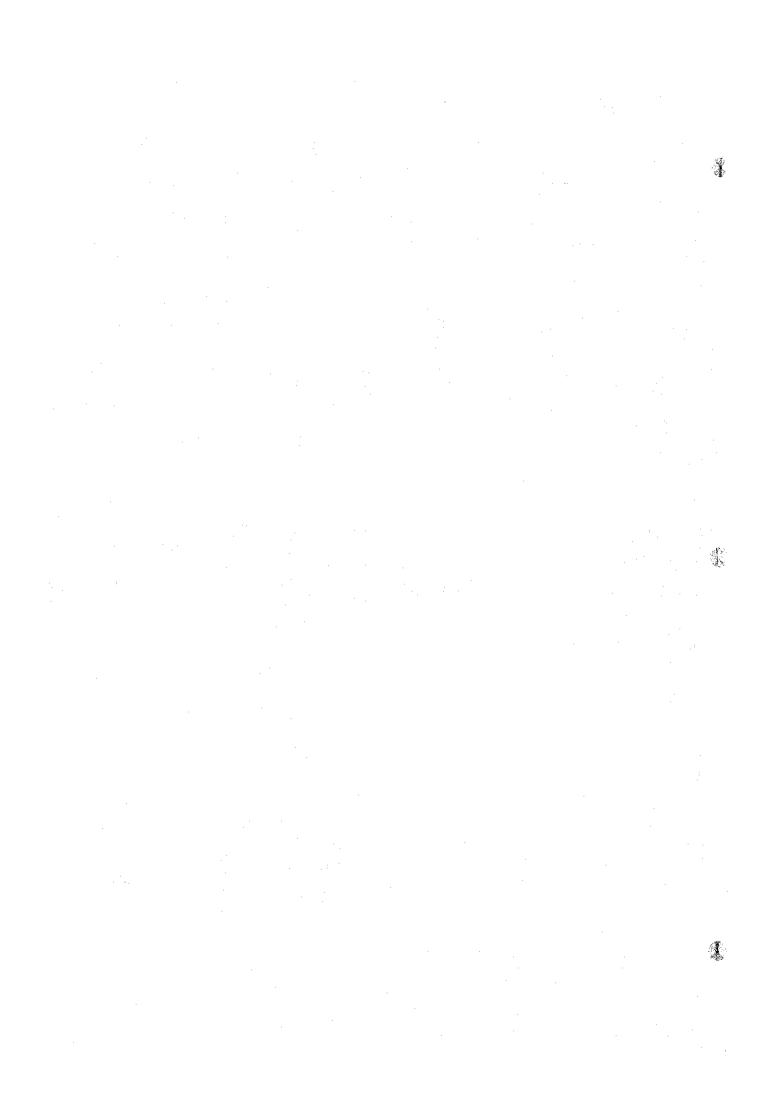
SPECIFIC GRAVITY
(POIDS SPÉCIFIQUE) Gs 2.740

ω,	GRAIN SIZE (mm) (GRANUROMÉTRIE)	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
SE)	TOTAL PASSING(%)			: .				100	99.9	99.7	99.5	98.0	96.8
DROMETER	GRAIN SIZE(***) (GRANULOMÉTRIE)	0.0331	0.0244	0.0160	0.0096	0.0069	0.0050	0.0025	0.0010				
HYDRO	TOTAL PASSING(%) (TOTAL PASSANT)	79.8	72.9	65.9	59.0	54.7	50.3	47.4	43.9				



★ COLLODE

					·	
	4.76mm<	0	o	MAXMUM DIAMETER (DIAMETRE MAXIMUM)	2.00	. njus
	4.76~2.00mm	0	υź	60% DIAMETER (DIAMÉTRE60%)	0.011	Om.
RTION	2.00~0.42mm	0	96	30% DIAMETER (DIAMÉTRE 30%)	***	T) TI
ROPOR	0.42~0.074.mm	3	%	10% DIAMETER (DIAMÉTRE 10%)	_	
م ق	0.074~0.005mm	47	00	COEFFICIENT OF UNIFORMITY (COEFFICIENT D'UNIFORMITÉ)	More than	
	0.005mm>	50	05	COEFFICIENT OF CURVATURE (COEFFICIENT DE COURBURE)	. –	



GRADATION ANALYSIS (ANALYSE GRANULOMÉTRIQUE)

FOR REPORTING

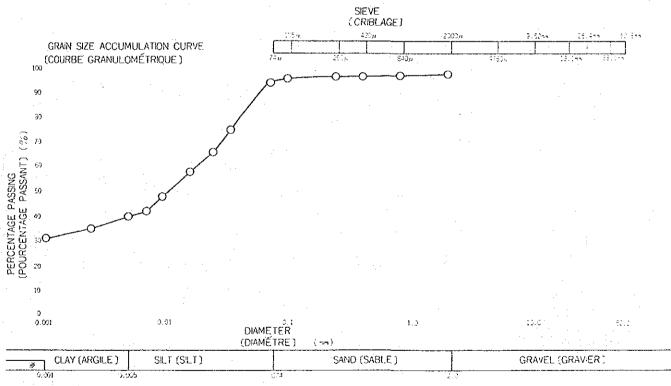
(POUR LE RAPPORT)

The state of the s	-	The state of the s		
NAME OF SURVEY & LOCALITY			DATE	
(CÉNOMINATION DE L'ENQUÊTE ET LOCALITÉ)			(DATE)	Aug. 1977
-LOCATION & DEPTH			TESTED BY	
TWICETERSONAUTECOME TO THE TOTAL THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO T	. 3	$(0.20 \text{ m} \sim 1.45 \text{ m})$	(ESSALPAR):	

PARTICLE SIZE & WEIGHT PERCENTAGE OF PARTICLES UNDER THE SIZE (DIMENSION DES PARTICULES ET POURCENTAGE DE POIDS DES PARTICULES DE DIMENSION INFÉRIEURE AUX PRÉCÉDENTES)

SPECIFIC GRAVITY
(POIDS SPÉCIFIQUE) Gs 2.709

/E	GRAIN SIZE (mm) (GRANUROMÉTRIE)	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
SIE	TOTAL PASSING(%) (TOTAL PASSANT)		·					100	99.7	99.4	99.0	97.6	96.9
WETER MÉTRIES	GRAIN SIZE(=>m) (GRANULOMÉTRIE)	0.0356	0.0263	0.0172	0.0103	0.0075	0.0053	0.0027	0.0011				
HYDROME CARÉCMÉT	TOTAL PASSING(%) (TOTAL PASSANT)	77.3	67.2	59.9	50.2	44.4	41.5	37.3	33.4				



(COLLODE)

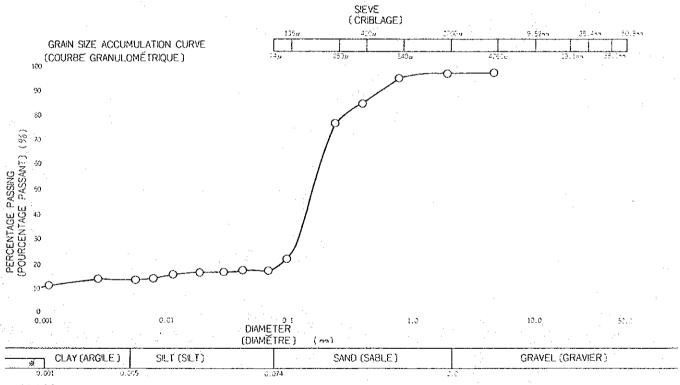
	4.76mm<	0 %	MAXMUM DIAMETER (DIAMETRE MAXIMUM)	2.00	n.m
7 7	4.76~2.00mm	0 %	60% DIAMETER (DIAMÉTRE60%?	0.017	THAT
RTION	2.00~0.42mm	l %	30% DIAMETER (DIAMÉTRE 30%)	-	ma.
ROPO	0.42~0.074 mm	2 %	10% DIAMETER (DIAMETRE 10%)		76
g (g)	0.074~0.005mm	56 %	COEFFICIENT OF UNIFORMITY (COEFFICIENT D'UNIFORMITÉ)	More than	
	0.005mm>	41 %	COEFFICIENT OF CURVATURE (COEFFICIENT DE COURBURE)	_	

(A)	GRADATION ANALYSIS VALYSE GRANULOMÉTRIQUE)	and the second s	FOR RÉPORTING (POUR LE RAPPORT)
NAME OF SURVEY & LOCALITY OF SURVEY & LOCALITÉ) LOCATION		OATE (DATE)	Aug. 1977
SAMPLE NO. & DEPTH WE'DE L'ÉCHAUBLLON ET PROFOIDEUR)	4 (0.65 m -	TESTED BY (ESSAI PAR)	

PARTICLE SIZE & WEIGHT PERCENTAGE OF PARTICLES UNDER THE SIZE (DIMENSION DES PARTICULES ET POURCENTAGE DE POIDS DES PARTICULES DE DIMENSION INFÉRIEURE AUX PRÉCÉDENTES)

SPECIFIC GRAVITY
(POIDS SPÉCIFIQUE) Gs 2.664

/E	GRAIN SIZE (mm) (GRANUROMÉTRIE)	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
SIE	TOTAL PASSING(%) (TOTAL PASSANT)		: -			:	100	99.9	96.5	87.3	79.3	23.6	19.2
METER (ÉTRIE)	GRAIN SIZE(***) (GRANULOMÉTRIE)	0.0450	0.0320	0.0203	0.0117	0.0083	0.0059	0.0030	0.001	}			
HYDRON CARÉON	TOTAL PASSING(%) (TOTAL PASSANT)	19.4	17.6	17.6	16.7	15.8	15.0	14.6	12.8				



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(COLLOIDE)

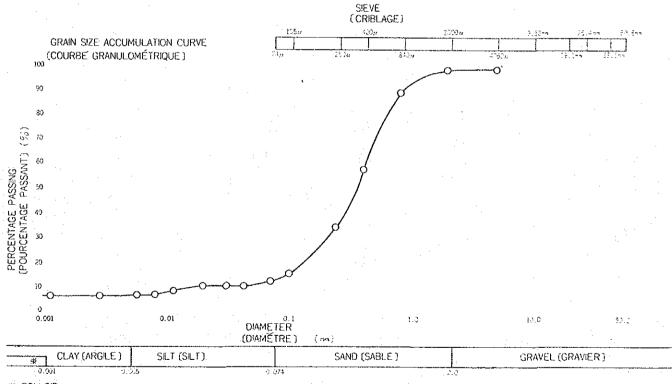
				•	
	4.76mm<	0	2ό	MAXMUM DIAMETER (DIAMETRE MAXIMUM)	4.76 mm
7 9	4.76~2.00mm	. 0	96	60% DIAMETER (DIAMETRE60%)	0.18
ORTION	2.00~0.42mm	13	%	30% DIAMETER (DIAMÉTRE 30%)	0.12
효율	0.42~0.074mm	68	96	10% DIAMETER (DIAMÈTRE 10%)	- na
ਕ ਦੇ	0.074~0.005mm	4	00	COEFFICIENT OF UNIFORMITY (COEFFICIENT D'UNIFORMITÉ)	More than 180
	0.005mm>	15	96	COEFFICIENT OF CURVATURE (COEFFICIENT DE COURBURE)	More than

GRADATION ANALYSIS (ANALYSE GRANULOMÉTRIQUE) NAME OF SURVEY & LOCALITY DÉNOMINATION DE L'ENQUÊTE ET LOCALITÉ) LOCALTION SAMPLE NO. & DEPTH TOMOGE LÉGIANTIALION ELL'ERGEGONDEURE 4 (1.80 m ~ 2.45 m , (ESSAI PAR))

PARTICLE SIZE & WEIGHT PERCENTAGE OF PARTICLES UNDER THE SIZE (DIMENSION DES PARTICULES ET POURCENTAGE DE POIDS DES PARTICULES DE DIMENSION INFÉRIEURE AUX PRÉCÉDENTES)

SPECIFIC GRAVITY
(POIDS SPÉCIFIQUE) Gs 2.661

VE AGE :	GRAIN SIZE (🏎) (GRANUROMÉTRIE)	50.8	38. l	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
SIE	TOTAL PASSING(%) (TOTAL PASSANT)		·				100	99.7	90.0	59.1	35.8	16.9	13.5
OMÉTRIE)	GRAIN SIZE(***) (GRANULOMÉTRIE)	0.0461	0.0326	0.0206	0.0120	0.0085	0.0060	0,0030	0.0012				
光 海1	TOTAL PASSING(%) (TOTAL PASSANT)		11.9	11.9	10.0	8.3	8.3	8.3	8.3				



COLLOID
(COLLOIDE)

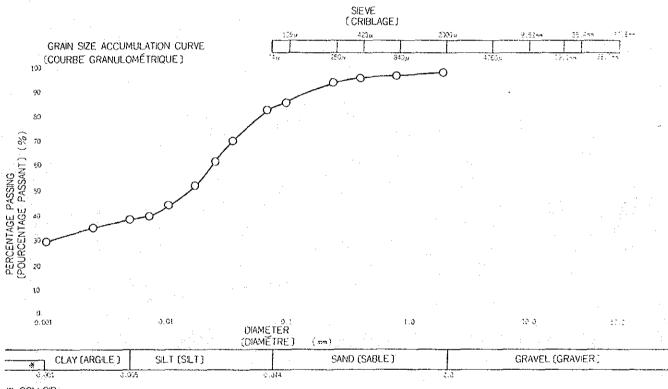
	4.76mm<	0 0	MAXMUM DAMETER (DIAMÉTRE MAXIMUM)	4.76
2 2	4.76~2.00m	0 %	60% DIAMETER (DIAMÉTRE60%)	0.43 mm
NOT NO NOT TON	2.00~0.42mm	41 og	30%, DIAMETER (DIAMETRE 30%)	0.20
PROPORT (PROPORT)	0.42~0.074mm	45 %	10% DIAMETER (DIAMETRE 10%)	0.012
4 6	0.074~0.005mm	6 %	COEFFICIENT OF UNIFORMITY (COEFFICIENT D'UNIFORMITÉ)	36
	0.005mm>	8 o _o	COEFFICIENT OF CURVATURE (COEFFICIENT DE COURBURE)	7.7

**	RADATION A YSE GRANUL	NALYSIS OMÉTRIQUE)				REPORTING LE RAPPORT:
NAME OF SURVEY & LOCALITY DENOMINATION OF L'ENQUÊTE ET LOCALITÉ)			÷	DATE (DATE)	Aug.	1977
SAMPLE NO. & DEPTH	6	(0.3 m~	1.35 m,	TESTED BY (ESSAL PAR)		

PARTICLE SIZE & WEIGHT PERCENTAGE OF PARTICLES UNDER THE SIZE (DIMENSION DES PARTICULES ET POURCENTAGE DE POIDS DES PARTICULES DE DIMENSION INFÉRIEURE AUX PRÉCÉDENTES)

SPECIFIC GRAVITY (POIDS SPÉCIFIQUE) Gs 2.709

/E	GRAIN SIZE (mm.) (GRANUROMÉTRIE)	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	J.J⁻÷
SIE	TOTAL PASSING(%) (TOTAL PASSANT)	1 .						1.00	99.0	97.5	95.8	88.0	85.0
VETER KETREJ	GRAIN SIZE() (GRANULOMÉTRIE)	0.0369	0.0270	0.0178	0.0106	0.0076	0.0054	0.0027	0.0011				
HYDRO	TOTAL PASSING(%) (TOTAL PASSANT)	72.1	64.1	54.1	46.1	42.1	40.1	36.7	30.7				-



% COLLODE)

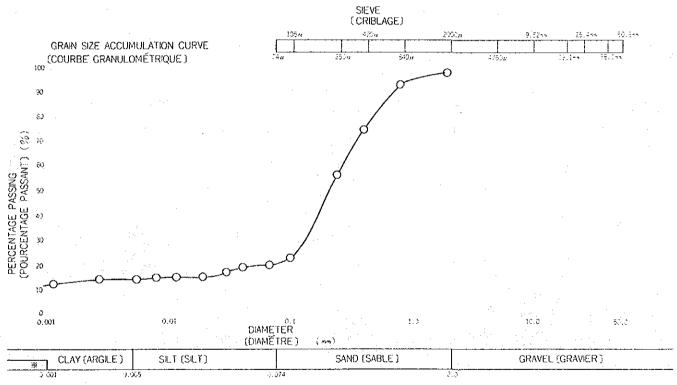
	4.76mm<	0	00	MAXMUM DIAMÉTER (DIAMÉTRE MAXIMUM)	2,00
7 3	4.76~2.00mm	0	%	60% DIAMETER(DIAMĚTRE60%)	0.024
NOT R	2.00~0.42mm	2	್ಯ	30% DIAMETER (DIAMÉTRE 30%)	0.001
ROPOR	0.42~0.074mm	13	0,0	10% DIAMETER (DIAMETRE 10%)	
] ⁶ 5,	0.074-0.005mm	45	9.0	COEFFICIENT OF UNIFORMITY (COEFFICIENT D'UNIFORMITÉ)	More than 24
	0.005mm>	40	<i>o</i> 6	COEFFICIENT OF CURVATURE (COEFFICIENT DE COURBURE)	More than 0.042

min and white the state of the	GRADATION ANAL	YSIS	<u>a, makeura ade al Cara, en especial (Alberthiris India) (Alberthi</u>	FOR REPORTING
(ANA	LYSE GRANULOMÉ	TRIQUE)		(POUR LE RAPPORT)
NAME OF SURVEY & LOCALITY (CENTRALIONALE L'ENQUÊTE ET LOCALITÉ)			DATE (DATE)	Aug. 1977
-SAMPLE NO. & DEPTH (NODE-CHÉCIANTELOR CEPPOSÓMOEUR)	6	$(2.10 \text{ m} \sim 2.80 \text{ m})$	TESTED BY (ESSAL PAR)	

PARTICLE SIZE & WEIGHT PERCENTAGE OF PARTICLES UNDER THE SIZE (DIMENSION DES PARTICULES ET POURCENTAGE DE POIDS DES PARTICULES DE DIMENSION INFÉRIEURE AUX PRÉCÉDENTES).

SPECIFIC GRAVITY (POIDS SPÉCIFIQUE) Gs 2.681

ACE :	GRAIN SIZE (🕬) (GRANUROMÉTRIE)	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
SIE	TOTAL PASSING(%) (TOTAL PASSANT)		·		. *			100	95.4	77.3	58.9	24.7	22.2
METER (ÉTRIE)	GRANULOMÉTRIE)												
HY DROI (ARÉON	TOTAL PASSING(%) (TOTAL PASSANT)	20.6	18.8	16.9	16.9	16.9	16.0	15.6	13.7	- 40 60 60 60 60 60 60 60 60 60 60 60 60 60			



* COLLOIDE)

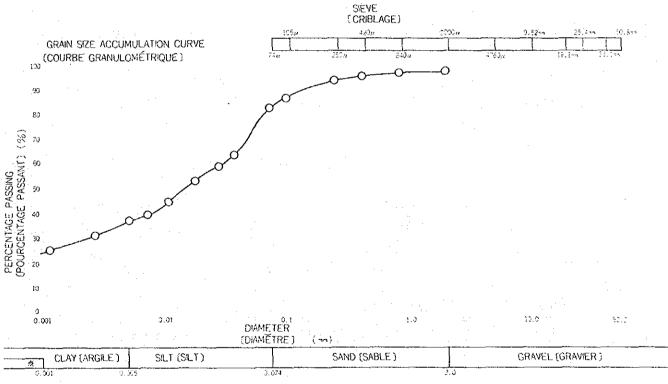
	4.76mm<	0	o o	MAXMUM DIAMETER (DIAMETRE MAXIMUM)	2.00	mrs.
	4.76-2.00mm	0	25	60% DIAMETER (DIAMÉTRE60%)	0.26	mm
RTION	2.00~0.42mm	23	20	30% DIAMETER (DIAMETRE 30%)	0.13	mm
PROPC (PROPC	0.42~0.074mm	55	%	10% DIAMETER (DIAMĚTRE 10%)	<u> </u>	nn.
0.074~0.005mm	6	%	COEFFICIENT OF UNIFORMITY (COEFFICIENT D'UNIFORMITÉ)	More than 260	•	
0.005mm>	0.005min>	16	o _o	COEFFICIENT OF CURVATURE (COEFFICIENT DE COURBURE)	More than 65	

GRADATION ANALYSIS (ANALYSE GRANULOMÉTRIQUE) NAME OF SURVEY & LOCALITY (DÉTINATION ENQUÊTE ET LOCALITE) SAMPLE NO. & DEPTH (DATE) (Aug. 1977 (ESSAI PAR)

PARTICLE SIZE & WEIGHT PERCENTAGE OF PARTICLES UNDER THE SIZE (DIMENSION DES PARTICULES ET POURCENTAGE DE POIDS DES PARTICULES DE DIMENSION INFÉRIEURE AUX PRÉCÉDENTES)

SPECIFIC GRAVITY (POIDS SPÉCIFIQUE) Gs 2.707

/E	GRAIN SIZE (🖚) (GRANUROMÉTRIE)	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
SIE	TOTAL PASSING(%) (TOTAL PASSANT)							100	99.6	98.2	96.3	89.0	84.9
METER IÉTRIE:	GRAIN SIZE (>m) (GRANULOMÉTRIE)	0.0382	0.0275	0.0178	0. 0106	0.0076	0.0054	0.0028	0.0012	}			
HYDRO	TOTAL PASSING(%) (TOTAL PASSANT)	65.5	61.4	55:3	47.1	40.9	38.9	33.4	27.2				-



* COLLODE)

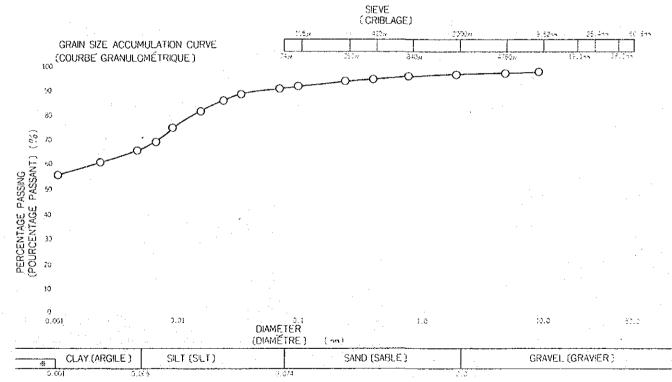
	4.76mm<	. 0	05	MAXMUM DIAMETER (DIAMETRE MAXIMUM)	2.00
- 9	4.76~2.00mm	0	o'o	60% DIAMETER (DIAMÉTRE60%)	0.026 nm
ORTION	2.00~0.42mm	2	3) 0	30% DIAMETER (DIAMETRE 30%)	0.0018
PROPO (PROPO	0.42~0.074mm	13	0%	10% DIAMETER (DIAMETRE 10%)	π.α.
ام <u>ق</u>	0.074~0.005гня	47	%	COEFFICIENT OF UNIFORMITY (COEFFICIENT D'UNIFORMITÉ)	More than
	J.005nm>	38	%	COEFFICIENT OF CURVATURE (COEFFICIENT DE COURBURE)	More than

	RADATION AN LYSE GRANULC	IALYSIS DMÉTRIQUE)			FOR REPORTING (POUR LE RAPPORT)
NAME OF SURVEY & LOCALITY (DENOMINATION OF L ENQUÊTE ET LOCALITÉ)				DATE (DAIE)	Aug. 1977
LOCATION SAFEE NO & DEPTH WITH THE CHANGE OF PROFOREURS	. 7	(0.2 m ~	2.5 m	TESTED BY (ESSAL PAR)	

PARTICLE SIZE & WEIGHT PERCENTAGE OF PARTICLES UNDER THE SIZE (DIMENSION DES PARTICULES ET POURCENTAGE DE POIDS DES PARTICULES DE DIMENSION INFÉRIEURE AUX PRÉCÉDENTES)

SPECIFIC GRAVITY
(POIDS SPÉCIFIQUE) Gs 2.695

/E AGE 3	GRAIN SIZE (>>>) (GRANUROMÉTRIE)	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
SE	TOTAL PASSING(%) (TOTAL PASSANT)					100	99.8	99.1	98.1	97.1	96.2	93.9	93.3
METER (ÉTRIE)	GRAIN SIZE(****) (GRANULOMÉTRIE)	0.0353	0.0252	0.0162	0.0096	0.0070	0.0050	0.0025	0.0011				
HYDRO CARÉO	TOTAL PASSING(%) (TOTAL PASSANT)	90.5	88.3	83.9	77.2	70.6	68.4	62.5	58.0				



COLLOID
(COLLOIDE)

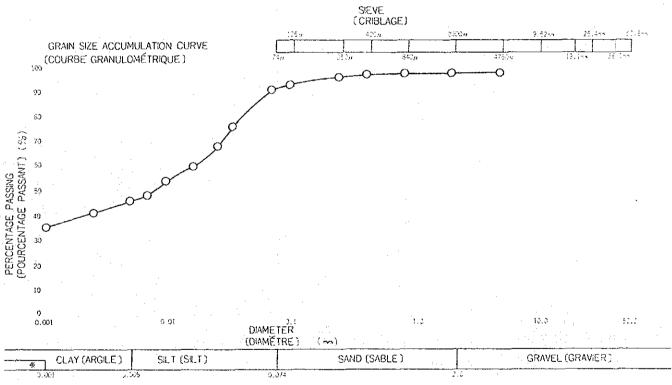
	4.76mm<	0 2	MAXMUM DIAMETER (DIAMETRE MAXIMUM)	9.52
7.5	4.76~2.00mm	1 0	60% DIAMETER (DIAMÉTRE 60%)	0.0016 ""
RTION	2.00~0.42nm	2 -	30% DIAMETER (DIAMÈTRE 30%)	— nm
ROPO	0.42~0.074nm	4 0	10% DIAMETER (DIAMÉTRE 10%)	sins.
۳ 6	0.074~0.005mm	25 <i>o</i>	COEFFICIENT OF UNIFORMITY (COEFFICIENT D'UNIFORMITÉ)	More than
	(),005mm>	68 o	COEFFICIENT OF CURVATURE (COEFFICIENT DE COURBURE)	-

GRADATION ANALYSIS (ANALYSE GRANULOMÉTRIQUE) NAME OF SURVEY & LOCALITY (DÉCOMMATION DE L'ENQUÊTE ET LOCALITÉT LOCATETON SAMPLE NO & DEPTH (NEDELLEGRANDELDE PROFEMBLES 10 (0.8 m ~ 1.3 m (ESSAI PAR)

PARTICLE SIZE & WEIGHT PERCENTAGE OF PARTICLES UNDER THE SIZE (DIMENSION DES PARTICULES ET POURCENTAGE DE POIDS DES PARTICULES DE DIMENSION INFÉRIEURE AUX PRÉCÉDENTES).

SPECIFIC GRAVITY
(POIDS SPÉCIFIQUE) Gs 2.707

	11												
/E AGE J	GRAIN SIZE (🖦) (GRANUROMÉTRIE)	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.374
SEC	TOTAL PASSING(%) (TOTAL PASSANT)						100	99.9	99.5	99.1	98.4	94.8	92.6
METER (ÉTRIE)	GRAIN SIZE(****) (GRANULOMÉTRIE)	0.0359	0, 0263	0.0172	0.0102	0 0074	0.0052	0.0027	0.0011	1		•	
HYDROMETA (ARÉOMÉTA	TOTAL PASSING(%) (TOTAL PASSANT)	78.0	70.0	62.0	56.0	50.0	48.0	42.6	36.6				



% COLLODE)

	4.76mm<	0	g;	MAXMUM DIAMETER (DIAMÈTRE MAXIMUM)	4.76 · ma
	4.76~2.00mm	- 0		60% DIAMETER (DIAMÉTRE60%)	0.014
ORTION	2.00~0.42mm	1	0,	30% DIAMETER (DIAMÉTRE 30%)	~ ¬¬¬¬
PROPO	0.42~0.074mm	6	ç _o	10% DIAMETER (DIAMÉTRE 10%)	
اط ق	0.074~0.005mm	46	96	COEFFICIENT OF UNIFORMITY (COEFFICIENT D'UNIFORMITÉ)	More than
	0.005===>	47	$a_{\hat{6}}$	COEFFICIENT OF CURVATURE (COEFFICIENT DE COURBURE)	

LIQUID LIMIT & PLASTIC LIMIT TEST (ESSAI DE LIMITE DE LIQUIDITÉ ET DE LIMITE DE PLASTICITÉ)

FOR REPORTING (POUR LE RAPPORT)

NAME OF SURVEY & LOCALITY

(DÉNOMINATION DE L'EMOUÊTE ET LOCALITÉ)

DATE

(DATE)

Aug. 1977

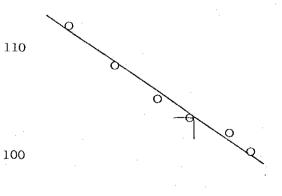
(ESSAI PAR)

FLOW CURVE (COURBE DE DÉTERMINATION DE LA LIMITE DE LIQUIDITÉ)

	TON DEPT		No.	•		· · · · ·	0.3m~1.	35n)
~ vi	LIQUID LIMIT (LIMITE DE L		_		l		TIC LIMIT TEST	
TEST. NO.	NO. OF BLOW (NOMBRE DE CO	-	WATER CONTI (TENEUR EN E				WATER CONT (TENEUR EN	
1	44		81.36	%		I	23.16	96
2	30		82.55	%		2	22.58	%
3	25		84.10	%		3	22.84	%
4	20		85.15	%				
5	14		88.28	07 0				
6	. 9		89.81	$v_{\tilde{g}}$		A ANTOR MENUE MANTOR	22.9	
LIQUID (LIMITE I	LIMIT DE LIQUIDITÉ)	(L)	PLASTIC LII MITE DE PLAS		τÉĵ		PLASTICITY IND CE DE PLASTI	
w _{1.}	84.1 %	w_{p}	22.9)	9.5 2.6	lp	61.2	

88	
84	
80 (%)	0

	TON & DESI		No.	3		(0.2m = 1.	45n)
4. 1.	LIQUID LIMI (LIMITE DE			·			TIC LIMIT TES DE PLASTIC	
TEST, NO. INTOE L'ESSAIT	NO. OF BLOV (NOMBRE DE CO		TER CONT NEUR EN I				WATER CON (TENEUR EN	
1	44	10	00.20	%		1	28.03	00
2	- 36	10	01.72	06		2	28.38	26
3	24	1.	03.27	Ö	,	3	28.21	0,5
4	⁴ · 17	10	04.85	a;				
5	11	1	08.23	ì				
6	7	1.	11.78	%	ME A	N VALUE ALEUR OSUME) 28.2	
LIQUID (LIMITE I	LIMIT DE LIQUIDITÉ)	PLA	STIC LIMI	ī		PL	ASTICITY INDE	
w_{\pm}	103.3 %	$w_{\rm D}$	28.2	2	05	l p	75.1	



WATER CONTENT

道

LIQUID LIMIT & PLASTIC LIMIT TEST (ESSAI DE LIMITE DE LIQUIDITÉ ET DE LIMITE DE PLASTICITÉ)

FOR REPORTING (POUR LE RAPPORT)

NAME OF SURVEY & LOCALITY (DÉNOMINATION DE L'ENQUÊTE ET LOCALITÉ)

DATE (DATE)

Aug. 1977

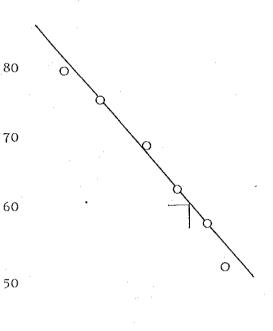
TESTED BY (ESSAL PAR)

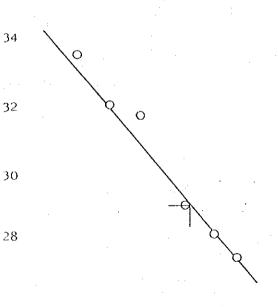
FLOW CURVE (COURBE DE DÉTERMINATION DE LA LIMITE DE LIQUIDITÉ)

OCATIONE.	TNO. 多 DEP1H	BE⊎R:	No.	2	.0	.45 _m .1.4	Q _n)	
	L'IQUID LIMIT TI (LIMITE DE L'IQU		PLASTIC LIMIT TES (LIMITE DE PLASTICI					
(N° DE L° ESSA)	NO. OF BLOWS (NOMBRE DE COUP				TEST, NO N'DE L'ESSALI	WATER CONTE (TENEUR EN E		
1	36	5	2.23	00	1	25.03	96	
2	30	5	8.38	%	2.	24.02	%	
3	22	ϵ	2.99	96	3	24.87	0,0	
4	16	ϵ	8.93	26			-	
5	10	7	5.36	96				
6	7	7	79.35	26	MEAN VALUE (VALEUR)	24.6		
LIQUID (LIMITE I			STIC LI		PLASTICITY INDE			

5	10)	7	5.36	6	1		
6		7	7	9.35 ?	6 (VEA	N VALUE ALEUR YENNE	24.6	
	JID LIMIT FE DE L'IQUIDI	πÉ)		STIC LIMIT CE PLAST			LASTICITY IND E DE PLASTIC	
w_L	61.0	96 1	²p	24.6	ΰ _ό	lp.	36.4	
·				÷				ì- -
								i v
	D. S. 110 . 0	SCOTU						(30°)
Loca	PECYP &			≀lo.	6	(2.	10m - 2.8	300 S

LOCATI	MARTEL - USC CN - NO: & DEPI		⊪: No.	•	5	(2	.10m ~ 2.8	(0 0-)
	LIQUID LIM (LIMITE DE				PLASTIC LIMIT TEST (LIMITE DE PLASTICITÉ)			
TEST, NO.	NO OF BLOY (NOMBRE DE CO		VATER CO TENEUR E				WATER CONTE	
1	40		27.8	1 °6		1	12.26	00
2	32		28.4	8 %	. 2		12.56	°o
3	24		29.30 %			3	12.41	<i>0</i> 5
4	15		31.77 %		1			
5	11		32.1	1 %			·	
6	8		33.5	1 %	×i.A	M VALUE ALEUR OYENNE) 12.4	
LIQUID (LIMITE	LIMIT DE LIQUIDITÉ)		LASTIC L		τÉ)		ASTICITY INDEX CE DE PLASTICI	,
w _L	29.3	$w_{ D}$	12	.4	ο̈́ο	Ιρ	16.9	





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(internal

L'IQUID LIMIT & PLASTIC LIMIT TEST (ESSAI DE LIMITE DE LIQUIDITÉ ET DE LIMITE DE PLASTICITÉ)

FOR REPORTING

NAME OF SURVEY & LOCALITY

DENOMINATION DE L'ENQUÊTE ET LOCALITÉ)

DATE (DATE)

Aug. 1977

TESTED BY (ESSAL PAR)

80

76

72

68

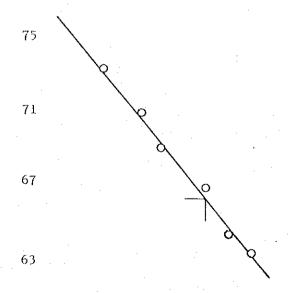
(%)

FLOW CURVE (COURBE DE DÉTERMINATION DE LA LIMITE DE L'IXABITÉ)

1111/11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NO. & DEPT		No.	10		0	- 100	1.	3 _{m 1}
	LIQUID LIMIT (LIMITE DE L	,	.)	-			-	T TEST _ASTICT	ιÉ)
TEST, NO. N°DE L' ESSAC	NO. OF BLOW (NOMBRE DE CO							ATER CONTENT NEUR EN EAU)	
1	48	6	6.43	%		1	22	2.50	%
2	30 6		7.65	%	2 .		2]	.67	%
3	20	7	2,49	%	3		21	.64	%
4	15	7	5.13	0.0					
5	10	7	7.93	05					
6	, 7	8	2.79	%		N VALUE MEUR YENNE	21	.9	
LIQUID (LIMITE I	LIMIT DE LIQUIDITÉ)		ASTIC I. DE PLA		τÉ)	į		HY INDE	
w _L	70.4 %	wp	21.	9	90	lp '	4	8.5	

				25
LOCATION NO. & DEPTH	No.	6	2.80 m -3.75m)	WATE (TENE

	LIQUID LIMI	T TEST			PL AS1	IC LIMIT TEST
	(LIMITE DE I	LIQUIDITÉ)	٠.	(l	JMITE	DE PLASTICITÉ)
TEST NO.	NO. OF BLOW (NOMBRE DE COU	S WATER CON JP: (TENEUR EN				WATER CONTENT (TENEUR EN EAU)
1	40	63.05	9		ļ	22.23
2	32	64.13	%		2	23.13
3	25	66.67	%		3	22.66
4	16	68.86	20			
5	13	70.87	ೆತ			
6	.9	73.25	o		VALUE EUR VENNE	
1	LIMIT DE LIQUIDITÉ)		PLASTIC LIMIT LIMITE DE PLASTICI			ASTIGITY INDEX CE DE PLASTIGITÉT
w	66.1 %	$w_{\mathfrak{p}}=22.$	7	03	ŧр	43.4



LIQUID LIMIT & PLASTIC LIMIT TEST (ESSAI DE LIMITE DE LIQUIDITÉ ET DE LIMITE DE PLASTICITÉ)

FOR REPORTING (POUR LE RAPFORT)

NAME OF SURVEY & LOCALITY (GÉNOMINATION DE L'ENQUÊTE ET LOCALITÉ)

DATÉ (DATE)

Aug. 1977

FESTED BY (ESSAL PAR)

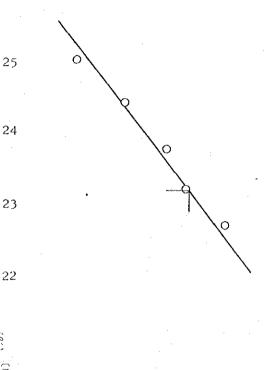
> WATER CONTENT (TENEUR EN EAU)

FLOW CURVE (COURBE DE DÉTERMINATION DE LA LIMITE DE LIQUIDITÉ)

LOCATION	E NO. & DEPTH HANTILLON ET FROFE	(NDEUR)	No.	4		0	.65 m ~1.80	O _{n 1}
	LIQUID LIMIT (LIMITE DE LI]		(IC LIMIT TEST DE PLASTICIT	É)
TEST, NO.	NO. OF BLOWS ENOMBRE DE COU		ER CONTI EUR EN E				WATER CONTE	
1	- 36	2	2.68	%		1	13.01	%
2	24	2	3.16	%		2	12.86	%
3	20	2	3.75	%		3	12.92	%
4	13	2	4.42	%				
5	8	2	5.01	25				
6				?3		N VALUE (LEUR YENNE		
L'QUID (L'MITE	LIMIT DE LIQUIDITÉ)		ISTIC LII DE PLA		ſÉ)		PLASTICITY INDE: CE DE PLASTICI	
$w_L = 2$	3.2 %	wp	12.9)	o _j	lρ	10.3	

LOCATION No. & DEPTH NO. & DEPTH NO. 7 0.2 m-2.5 m)

	LIQUID LIMIT			_	TIC LIMIT TEST	,
	(LIMITE DE L	.KQUIDITE)		UMITE	DE PLASTICI	ſĘ)
TEST, NO.		WATER CONTENT P) (TENEUR EN EAU)			WATER CONTE (TENEUR EN E	
1	48	91.80 %		1	28.82	%
2	28	93.42 %		2	29.61	05
3	22	95.20 %		3	30.17	%
4	16	97.51 %				
5	11	99.78 %				
6	8	104.07 %	MEA!	L VALUE LEUR SYEMIE	3 29.5	
LIQUID (LIMITE I	LIMIT : DE LIQUIDITÉ)	PLASTIC LIMIT (LIMITE DE PLASTICI	TÉ)		LASTICITY INDEX CE DE PLASTIC	,
w ₁ S)4.2 o _o	w _c 29.5	c _á	Γρ	64.7	



100 96 92

NUMBER OF BLOWS (NOMBRE DE COUP)

Ì

LIQUID LIMIT & PLASTIC LIMIT TEST (ESSAI DE LIMITE DE LIQUIDITÉ ET DE LIMITE DE PLASTICITÉ)

FOR REPORTING POUR (E HAPPORT)

NAME OF SURVEY & LOCALITY

COÉNOMINATION DE C'ENQUÊTE ET LOCALITÉ)

DATE

[DATE]

Aug. 1977

(ESSAL PAR)

*6*0

FLOW CURVE CCOURBE DE DÉTERMINATION DE LA LIMITE DE L'IQUIDITÉ;

LOCATION	NO. & DEPT		ाष्ट्र।	ilo.		4	1.	.80 _{m -} 2.4	5 _{m()}
	LIQUID LIMIT (LIMITE DE L		_	l				NC LIMIT TEST DE PLASTICI	
TEST, NO.	NO. OF BLOV (NOMBRE, DE CO							WATER CONTE	
1	38		18	3.68	%		1	11.85	%
2	30		20	33	%		2	11.90	%
3	20		20	.47	%		3	11.83	%
4	10		21	.64	%				
5	. 7	Ì	22	.30	25				
6					00	MEA C _{MC}	N VALUE ALEUR YENNE	11.9	
LIQUID ((LIMITE (LIMIT DE LIQUIDITÉ)	(L.I)		STIC LIE DE PLAS		ιÉ)	!	PLASTICITY REDE DE DE PLASTIC	
w_L	20.1 %	$w_{\hat{\rho}}$		11.9)	%	í p	8.2	

20 0

COTTAL	E NO. & DEP		No.		(m ~	m)
	LÍQUID LIM					STIC LIMIT TE E DE PLASTI	
TEST, NO.	NO. OF BLO (NOMBRE DE CO				TEST NO		
1				%	1		05
2		Ī		o _ó	2		06
.3				35	.3		·**
4				9.5		; ;	
5				3,0			
6				30	WEAR VALL VALEER	; <u>.</u>	
LIQUID (LIMITE	LIMIT DE LIQUIDITÉ)	i	STIC LA DE PLA			PLASFICITY INC D'OE DE PLAS	
· io	0.5	w _o			% 1 p		

STREET OF BLOWS MOMBRE DE COUP)

.

Ý.

SPECIFIC GRAVITY OF SOILS (POIDS SPÉCIFIQUE DES SOLS

FOR REPORTING (POUR LE PAPPORT)

NAME OF SURVEY & LOCALITY (TÉNOMINATION DE L'ENQUÊTE ET LOCALITÉ)

DATE (DATE)

Aug. 1977

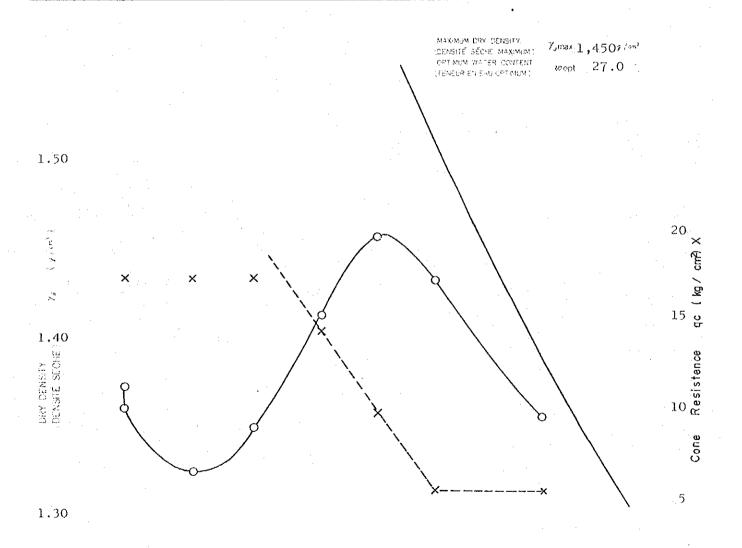
TESTED BY (ESSALPAR)

LOCATION =SAMPLE-NO. & DEPTH N-DE-LECHANTILICALET-PROCONSEUR)	AVERRAGE SPECIFIC GRAVITY (POIDS SPECIFIQUE) MOYEN	SPECIFIC GRAVITY 1 (POIDS SPÉCIFIQUE 1)	SPECIFIC GRAVITY 2 (POIDS SPÉCIFIQUE 2)	SPECIFIC GRAVITY 3 (POIDS SPECIFIQUE 3.)
No. 2 (0.45m ~ 1.40m)	2.740	2.732	2.748	2.740
N_0 6 (2.10 m \sim 2.80 m)	2.681	2.677	2.682	2.683
No.10 (0.8 m ~1.3 m)	2.707	2.704	2.702	2.714
No. 6 (2.80 m ~ 3.75 m)	2.707	2.704	2.705	2.713
No. 6 (0.3 m ~1.35m)	2.709	2.700	2.707	2.720
N_0 3 (0.20m \sim 1.45m)	2.709	2.722	2.703	2,701
No. 4 (0.65 m ~ 1.80 m)	2.664	2.660	2.670	2.662
No. 7 (0.2 m ~2.5 m)	2.695	2.713	2.687	2.685
No. 4 (1.80m ~ 2.45m)	2.661	2.660	2.665	2.657
No. (m ~ m)				
No. (m ~ m ⟩				
No. (m~ m)				
No. (m~ m)				
No. (m ~ m)				
No. $(m \sim m)$:
No. (m ~ m)				
No. (m ~ m)				·
No. (m ~ m)				
No. (m ~ m)				
No. (m ~ m)				
No. (m~ _ m)				
No. (m~ m)			·	· .
No. (m ~ m)				
No. (m - m)				
No. (m ~ m)				
No. (m~ m)				
No. (m ~ m)				

CON	4P4(CTION	TEST	
(ESSAI	DE	COMF	PACTAGE]

FOR REPORTING

	COMPACTIO (ESSAL DE CON				FOR REPORTING		
NAME OF SURVEY & LOCALBY CONTROL NO. NO. NO. NO. NO. NO. NO. NO. NO. NO.		0.45 m ~ 1	(b	ATE ATE T ESTED BY SSAL PARO	Aug. 1	977	
MOULD Ha	WEIGHT (FOIDS)	NSIDE LPAME		10.0	CAPACITY (CAPACITÉ)	1,000	
RAMMER WEIGHT	MEIGHT OF DROP 500 / HAUTEUR DE CHUTE)	30 (** COUNTRE DE COL CHARLE DOX		0.5	NUMBER OF LA		
MATERIAL USED FOR SPECMEN MATERIAU CHOISE POUR DUILES		S-OFFERENT SOLPI -AUTRE) SOLPR			RORÆÐ-NOT ORÆ ÉCHÉ X U AR LÆ		
MATCHAL WATER CONTENT TENEUR MATURELLE EN EAUN ; MAY GRAN SIZE ALLOWED		FATER CONTENT AFTER A FAEUR EN EAU APRÈS S LÀ L'AR LIBRE			SPECIFIC GR (POIDS SPÉCIF	AVITY 1QUE: 27.40	
GRANTETNETHE MAXAMIN C	-1 - ()	MATERIAL OVER THE MAI MATĒRIAU DE GRANIJLOM			ADMISE)	0 5	
LITERAL POR LIN DE L'ESPANT	2	3 . 4	5	6	7	. 8	
DRY DENSITY DENSITÉ SÉCHES ⁷⁴ / T	1.372 1.325	1.349 1.411	1.454	1.430	1.360		
MEAN WATER CONTENT	12.7 16.5	10.8 23.5	26.6	29.7	12.7		



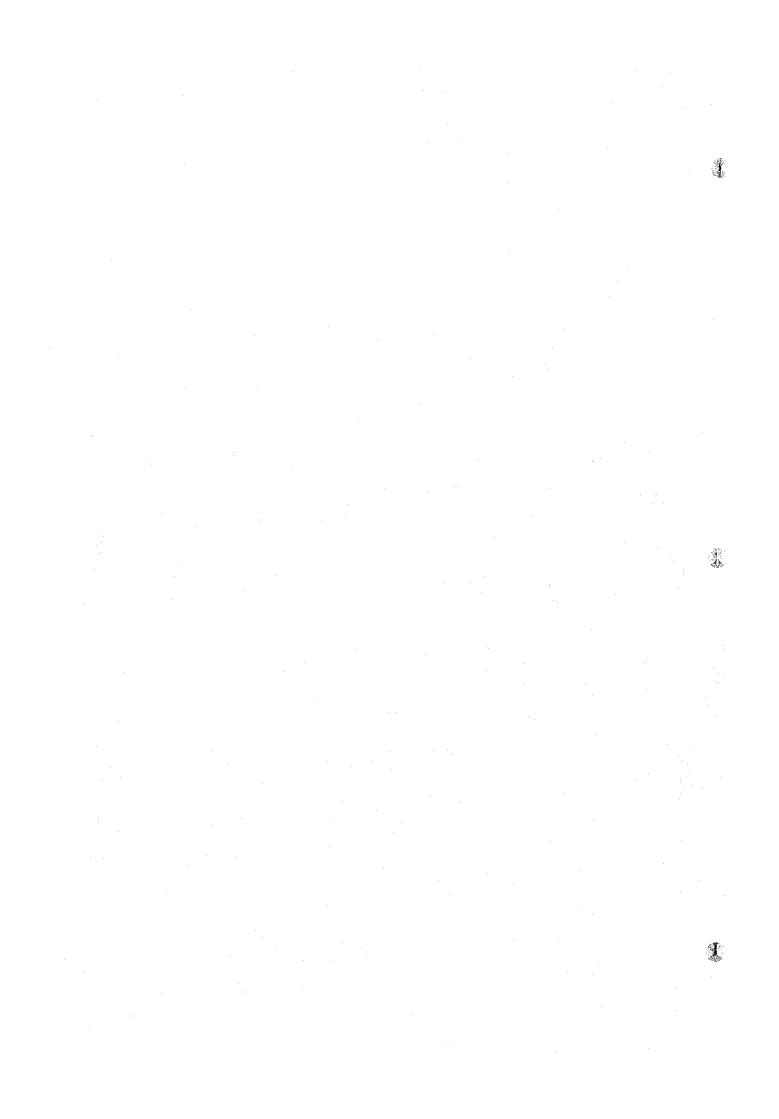
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20 25 MAFER CONTENT TENEUR EN EAU)

- 224 -

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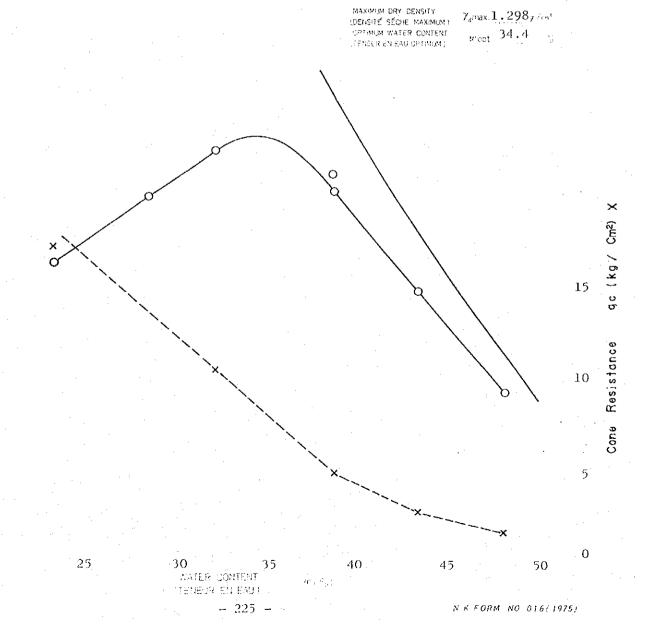
				OMPACTI AL DE CO	ON TEST OMPACTAC	GE)				PORTING E. RAPPORT
	URVEY & LO			:				ATÉ ATE)	Aug.	3, 1977
	O. A. DEPTH STOCKET (*)			7	0.2	m - 2.		ESTED BY SSAL PAR)		·
MOGLD MOGLE)	No.		%€GE , 20°0			NSIDE DIAMET DIAMÈTRE INTI	111		CAPACITY CAPACITÉ)	1000
RAMMER (PILON)	WEIGHT (POIDS)	2500		LICE DROPT UR DE CHUTE	30 5 (BLOWS PER LAY NOMBRE DE COOR CHAQUE COUC	ER IS POUR) 25	1	JUMBER OF L	
	USED FOR S CHOISI POUR) SOL PR			CORRED <u>(M)COR</u> G CHÉ X U AIR US	
TENEUR NAT MAX. GRAI	ATER CONTEN URELLE EN N. SIZE ALLO	EAU) nen; MED			TENEUR EN E		OHAGE)		SPECIFIC GR (POIDS SPÉCIF	TIQUE 12.695
40	ETRIF MAXIMUM MISE	<u> </u>	4.76		E MATÉRIAU DI		TRIE SUPÉRIE	URE Á CELLE		0 ο _γ ,
ORY DE	NSITY SECHE)		1.224	1.259	3 1.285	1.262	1.207	1.154	1.272	8
MEAN WATE			23.3	28.6	32.2	38.8	43.4	48.1	38.8	

1.30

, ... , ...

1.20 DENSITY DENSITY DENSITY

1.10



•	COMPACTI (ESSAL DE CO				EPORTING LE RAPPORT :
MAME OF SURVEY & LOCALITY TO MAKE TO THE DEPTH LOCATION	. 4	0.65 1.8	DATE (DATE) (DATE) (ESTED) (Continue)	SY	. 1977
V0.4.2	WEIGHT	NSIDE DIAMETE		CAPACITY	
(MOCLE) No.	: €POIOS) UESHT OF DROP	PAMETRE INTO	10.0		1000
MATERIAL CHOISE POUR DUTES ST	/ JHAUTEUR DE CHUTE REPROCESS	MG FEEREND SOL PRE	E POUR) 25 PARED FOR TEST PARE POUR L'ESSAI)	PROPRED COT OF	00001€1 3
TABLESO, MATER CONTENT TENERS MATERIALLE EN EAUS W	9.5	MATER CONTENT AFTER AR FENEUR EN EAU APRES SÉC À L. AR LIBRE		SPECIFIC G FOIDS SPÉC	RAVEY 2.6
MAX GRAN SHE MILEWED GRANDING FRE MANAGEM V MISE		E MATERIAL OVER THE MAX E MATÉRIAU DE GRANULOMÉT			0
DRY DENSITY		3 4		6 7	8
DENSITÉ SECHE) (1) / (1)		1.727 1.715	1.732 1.7		1.734
TENEUR MOYENAGE EN EAUT WAY	7.9 9.5	12.1 13.3	15.9 12	.3 15.6	15.7
DRY DENSITY 7d (g/cm ³) MEAN WATER CONTENT W		= :: :: :: : : : : : : : : : : : : : :	ANDERS OF SERVICE OF SERVICE S	tuper 1.5 5	
		:		\	. ·
18.0					
· · · · · ⊙			·		
			0		
3 · ·			00		
1.70 	8			0	
1.70 9					
	· 	x x	- ×		
1.60	x .			×	
1.60	× Wn I			*	

PERMEABILITY TEST (ESSAI DE PERMÉABILITÉ)

NAME OF SURVEY & LOCALITY DÉNOMINATION DE L'ENQUÊTE ET LOOKER! LOCATION DEPTH

(DATE)

Aug. 1977

ಸತಿಪಾತಿಕೆ ಇರು ಕೊಡುಗೆ ಹಿಳಿಗುಂತು ಆಕೆ ಕಿಂಗ್ ಕರಿಕೆ ಇದು ಪ್ರಸ್ತಿಸ್ಥಾನಗಳ

2 - 0.45 - 1.40 m

TESTED BY ESSALFAR,

APPARATUS NO [NODE L'APPAREIL]	P-29	CONTÂME N° DU RÉ	-		BAMPLE BORANTICEO	U IDSTURB N. CHARACT	ED (DISTURBED) REMANIÉ :
E CHAMETER	cm ·	1.05		CNDITIONS OF S		SEFORE TEST	AFTER TEST

1.E	CAMETER (DIAMÈTRE)	1.05	CONDITIONS OF SPECIMEN (CONDITIONS DU SPÉCIMEN)	BEFORE TEST (AVANT ESSAL)	AFTER TEST (APRÈS ESSAL)
808 9.84	CROSS SECTIONAL AREA (1992)	0.866	WEIGHT - CONTAINER + SPECIMEN) WI'S. [POIDS RÉCIPIENT + SPÉCIMEN]	3436	3807
-	CAMETER (DIAMETRE)	10.0	WEIGHT OF SPECMEN WINW -Wig) (PODS OU SPECMEN)	1533	1904
MES.	CROSS SECTIONAL AREA (SURF. DE LA SECTION)	78.5	WET CENSITY (CENSITE HIMICE) Y, ⇒W ₁ V(1 'cn³)	1.533	1.904
SPÉCIMEN	LENGTH (LONGUEUR)	12.7	DEGREE OF SATURATION (DEGRÉ DE SATURATION)	34.9	106.6
	VOLUME Y = AL (27)	1000	WATER CONTENT (TENEUR EM EAU) #1%.	12.7	38.8
	GHT OF CONTAINER OS DU RÉCIPIENT) W., 8	1903	ORY DENSITY $\gamma_d = \gamma_1/(1 + \frac{W}{2})/(3) \cos^3 t$	1.372	1.372
	ECIFIC GRAVITY OS SPÉCFIQUE) G,	2.740	VOID RATIO (INDICE DES VIDES)	0.997	0.997

TEST NO.	1	2	3
(N° DE L° ESSAI) TIME OF INITIAL OBSERVATION	· · · · · · · · · · · · · · · · · · ·		
(MOMENT OÙ L'OBSÉRVATION COMMENCE)		9 ^h :10 ^m	16 ^h :45 ^m
	16 ^h :45 ^m	16 ^h :45 ^m	9 ^h :00 ^m
ELAPSED TIME (TEMPS ÉCOULÉ)	21600	27300	58500
B 33 A-(t_z=t_t			
A·(tz-tt			
O M T. I.			
$\begin{array}{c c} \hline O & \\ \hline O &$			
Q/A·(t,-t,)			
h Ast, -t,			
# HEAD AT t : h (co)	89.8	89.8	89.8
HEAD AII, HOFF. DE MYEAU À 12 h./	86.6	86.1	81.1
	1.0370	1.0430	1.1073
OSD (h, h, h,)	0.0158	0.0183	0.0443
A C S C S C S C S C S C S C S C S C S C	10.9982	10.9982	10.9982
a · L 2 · A 4 · L 4	0.1401	0.1401	0.1401
2.3/ft,-rt,.	1.06×10^{-4}	8.42×10^{-5}	3.93×10^{-5}
$k_{\tau} = \frac{a_1}{A} \cdot \frac{2.3}{(t_2 - t_3)} \cdot \frac{4 \cdot g}{1 \cdot 2} \cdot \frac{h_1}{h_2} (c_{\pi/sec})$	2.35×10^{-7}	2.16×10^{-7}	2.44×10^{-7}
WATER TEMPERATURE (TEMPÉRATURE DE L EAU)	24	25	24
· · · · · · · · · · · · · · · · · · ·	0.80	0.782	0.80
※※	1.88×10^{-7}	1.69×10^{-7}	1.95×10^{-7}
MEAN VALUE OF kills [VALEUR_MOYENNE DE kills]	1.8	34 x 10 ⁻⁷	om, se¢

	No.	256	
W. 275.4	W۵	256.5	
₩ <u>.256.5</u>	<u>W</u> .	107.7	
W. 18.9	W	148.8	
•	<u>w = </u>	12.7	(
	No.	:	
W _a	Wai		
W,	. W.		
W_x	₩,		
	w =		v,
MEAN WATER (TENEUR MOYE			
. Pit	_	12.7	a;

	ITENT AFTER TES EAU APRÉS ESSA	
	No.	
W ₄	W s	
W ₃	w,	
W."	₩,	
	w =	ψ ₀ .
	На	
W.	W ₃	
.V.s	W,	
W _x	W,	
	w =	c;
MEAN WATE TENEUR MOY	R CONTENT YENNE EN EAU)	
	w =	<i>ა</i> გ

TOFFERENCE BETWEEN HEAD WATER AND TALWATER

TOFFERENCE ENTRE LE NIVEAU D'EAU EN TÊTE DE COLONNE ET LE NIVEAU D'ÉPANCHEMENT)

THE HERFT'S THE COEFFICIENT DE VISCOSITY OF THE WATER AT TIC.

HE EST LE COEFFICIENT DE VISCOSITÉ DE L'EAU À TIC.

^{* *} COEFFICIENT OF PERMEABILITY AT 1 10

PERMEABILITY TEST (ESSAL DE PERMÉABILITÉ)

NAME OF SURVEY & LOCALITY

CHANGINATION COATE COACCE

SAMPLE NO. & DEPTH

THAT COATE COACCE

THE STATE OF COACCE

THE STATE OF COACCE

TO 0.2 - 2.5 m

ESSAMPAR.

			g		
APPARATUS NO.		CONTAINER NO	ì	CAMPLE	JUDISTURBED (DISTURBED)
IN DE L'APPAREIL1	P-13	INTOU RECEPENT:		TÉCHANI LLONI.	NTACT - REMANE
		L	1		

73E (35)	DAMETER (DIAMÈTRE)	1.014	CONDITIONS OF SPECIMEN CONDITIONS DU SPÉCIMEN)	BEFORE TEST (AVANT ESSAL)	AFTER TEST . (APRES ESSAI)
BONE Jaylor	CROSS SECTIONAL AREA SURF. DE LA SECTION)	0.849	WEIGHT CONTAINER+SPECIMEN) W' (g.,	361.2	3674
	DAMETER DAMETRE)	10.0	WEIGHT OF SPECIMEN W=W'-W,g) (POIDS DU SPÉCIMEN)	1765	1827
IMEN.	CROSS SECTIONAL AREA A.(m²) (SURF DE LA SECTION)	78.5	. VET DENSITY	1.765	1.827
SPECIME	LENGTH LEGICUEUR)	12.7	CEGREE OF SATURATION S.(%)	93.4	105.0
	VOLUME V = AL(+h3)	1000	WATER CONTENT (TENEUR EN EAU) w(%),	38.8	43.6
	GHT OF CONTAINER OS DU RÉCIPIENT) W _o (8/	1847	DRY DENSITY $\gamma_{ij} = \gamma_{ij}/(1 + \frac{W}{2})/(g/\sin^2)$	1.272	1.272
	ECIFIC GRAVITY OS SPÉCIFIQUE) G,	2.695	VOID RATIO (INDICE DES VIDES)	1.119	1.119

TEST NO.		2	,]	WATER CONTENT BEFOR TEST
(N' DE L' ESSAI)	1	<u> </u>	3	(TENEUR EN EAU AVANT ESSAI)
TIME OF INITIAL OBSERVATION (MOMENT OUTLOBSERVATION COMMENCE)	27th 9 o'cl	ock		No.
TIME OF FINAL OBSERVATION (MOMENT OU L'OBSERVATION FINAL)	29th10 o'c1	ock		W _a W _b
ELAPSED TIME (TEMPS ÉCOULÉ)	176400			W ₅ W _c W,
# HEAD (DEFÉRENCE DE NIVEAU) h (5)				$w = \frac{\sqrt{3}}{2}$
OH SEAD (DEFÉRENCE DE NIVEAU) h (c)				No.
돌 (j				W _a W _b
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				$\begin{bmatrix} W_b & W_c \\ W_u & W_s \end{bmatrix}$
00/A+(t,-t,)				$w = \frac{c_0}{c}$
$8 = \frac{L}{2} - \frac{Q}{A(L_2 - L_1)} $ (cm/sec)				MEAN WATER CONTENT (TENEUR MOYENNE EN EAU)
DIFF. DE NIVEAU À L. h.(cm.)	88.6			$w = z_0$
U W HEAD AT I. ha(m) O (OFF DE NIVEAU Ă I. ha(m)	87.9			WATER CONTENT AFTER TEST (TENEUR EN EAU APRÉS ESSAI)
η h ₁ /h ₂	1.008			No.
	0.0035			W _a W _b
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10.782			W _b W _c W _c
4L/A	0.137			$w = \frac{v_s}{v_s}$
aL/A	1.30×10^{-5}	i 		No.
$ k_r = \frac{aL}{A} \cdot \frac{2.3}{(t_s - t_s)} \cdot \frac{\log h}{\log h} $ en/sec	$6.23 \text{x} 10^{-9}$			W _a W _b
WATER TEMPERATURE: (TEMPÉRATURE DE L'EAU) TIME	24			W _a W,
*** # # _{T/#15}	0.80			$w = g_0$
& %	4.98x10 ⁻⁹		. :	MEAN WATER CONTENT (TENEUR MOYENNE EN EAU)
MEAN VALUE OF kg (VALEUR MOYENNE DE kg.)	4.0	8 x 10 ⁻⁹	. en sec	w =

^{4:} OFFERENCE BETWEEN HEAD WATER AND TAILWATER
DEFFÉRENCE ENTRE LE NIVEAU D'EAU EN FÊTE DE COLONNE ET LE NIVEAU D'ÉPANCHEMENT)
4:4:4:41 S THE COEFFICIENT DE VISCOSITY OF THE WATER AT T.C.
LIFT EST LE COEFFICIENT DE VISCOSITÉ DE L'EAU À T.C.

* * COEFFICIENT OF PERMEABILITY AT T.C. OR 15°C COEFFICIENT DE PERMÉABILITÉ À T.C. OU 15°C

PERMEABILITY TEST (ESSAI DE PERMÉABILITÉ)

NAME OF SURVEY & LOCALITY LÉMOMINATION DE L'ENQUÊTE ET LIXAR LÉ

DATE (BTAC)

Aug., 1977

LOCATION No. & DEPTH alchabitation on preference

4 - 0.65 - 1.8 m

TEC

TESTED BY ESSAL PAR .

	ARATUS NO. BELLI APPAREILI)	P-28	1 .	HER NO RECIPIENT)	SAMPLE (ÉCHANTALLÓ)		D (DISTURBED) REMANIÉ :
E 5	©AMETER _DIAMÉTRE)	53	1.03	CONDITIONS OF		BEFORE TEST (AVANT ESSAL)	AFTER TEST (APRES ESSAI)
9.74 9.74 1.14 1.14 1.14	CROSS SECTIONAL (SURF. DE LA SECT		0.833	WEIGHT CONTAINER + SPEC (POIDS : RÉCIPIENT + SPEC		3766	3977
	MAMETER (DIAMÈTRE)	ion.	10.0	WEIGHT OF SPECIMEN (POIDS DU SPÉCIMEN)	$W_i = W' - W_i(g)$	1870	2081
SPECIMEN;	CROSS SECTIONAL (SURF. DE LA SECT		78.5	WET DENSITY (DENSITÉ HUMIDE)	$\gamma_i = W_i \cdot V(\gamma / cm^3)$	1.870	2.081
200	LENGTH (LONGUEUR)	L sa i	12.7	DEGREE OF SATURATION (DEGRÉ DE SATURATION)	\$,0%	45.5	103.4
, - į	VOLUME (VOLUME)	V =AL , am ³	1000	WATER CONTENT (TENEUR EN EAU)	w\!*31	9.5	21.6
	GHT OF CONTAINER S DU RÉCIPIENT)	W _p .g	1896	DRY DENSITY (DENSITÉ SĂCHE)	$\gamma_d = \gamma_1/(1+\frac{1}{16})/(g/cm^3)$	1.711	1.711
	CFIC GRAVITY S SPÉCIFIQUE)	G,	2.664	VOID RATIO (INDICE DES VIDES)	è	0.557	0.557

	T - NO. ENL* ESSAI)	1	2	3
T:MF	OF INTIAL OBSERVATION ON LOBSERVATION COMMENCE; to	0	0	0
TIME	OF FINAL OBSERVATION ENT OU L'OBSERVATION FINAL)	41.4 sec	41.6 sed	42.0 sec
	PSED TIME PS ÉCCULÉ) : 1 x = 1 ; sec :	41.4	41.6	42.0
	# FEAD			
14015	(DFFÉRENCE DE MYEAU) 7 97 (
SNS SNS	A-(f ₂ -t ₁			
EAD METHOD NIVEAUX CONSTANTS!	<u>L</u> ∠h			:
CONSTANT HEAD METHOD METHOD METHOD METHOD	VOLEME OF DISCHARGE IN THE CONTROL OF STREET O			: :
CUNSTAN MÉTHURE	0/A-(t ₂ t ₁			
9,%	$R_{\tau} = \frac{L}{h} + \frac{D}{A(t_{\tau} - t_{\tau})} (ensec)$			
5	M HEAD AT ! P (cm). [DIFF, DE NIVEAU 4 ta	90.3	90.3	90.3
MBL ES	* HEAD Aft. (OFF. DE MIVEAU A t.	70.3	70.3	70.3
VAR	h₁/h₃	1.284	1.284	1.284
METHOD NIVEAUX VARIABLES]	log _{to} (h _{it} /h _{ig} ,	0.109	0.109	0.109
HEAD N	α•Ε	10.58	10.58	10.58
300	nt.∧	0.135	0.135	0.135
FALLING H	2.3/(t _a =1 ₁	0.0556	0.0553	0.0548
	$k_{T} = \frac{a_{L}}{4} \cdot \frac{2.3}{(t_{2} - t_{3})} \cdot \log_{10} \frac{n_{1}}{t_{2}} \iff \text{sec}$	8.18×10^{-4}	$8.14 \text{x} 10^{-4}$	8.06x10 ⁻⁴
	ER-TEMPÉRATURE PÉRATURE DE L. EAU) T. C.	25	25	25
* ** *	$\mu_{ extsf{T}^{\prime}_{ \mathcal{H}_{15} }}$	0.782	0.782	0.782
**	$k_{13} = k_T \cdot \frac{u_{17}}{u_{13}}$	6.40x10	6.37x10 ⁻⁴	6.30x10
	LVALUE OF MILEUR MOYENNE DE NA		6.36 x 10 ⁻⁴	am/sec

	TER CONTENT IEUR EN EAU						
		No.	226				
W.	223.4	Ws	213.7				
₩ ₃	213.7	W.	111.9				
W.,	9.7	W,	101.8	·			
	!	v =	9.5	<u></u>			
		No					
W _a		Wø					
W,		W .					
Ww		W,					
		v =		20			
MEAN WATER CONTENT (TENEUR MOYENNE EN EAU)							
	_w =		9.5	ر 			

1	CONTENT AFTER TEST	
(TENEUR	EN EAU APRÉS ESSA	.1]
	No.	
W.	W,	=
W,	₩.	
W	W,	
	<u>w = </u>	
	Жо	
W.	W s	
W	W.	
W	W.	
	w =	
	TER CONTENT MOYENNE EN EAU)	
	(4) E2	0 j

^{*} OFFERENCE BETWEEN HEAD WATER AND TAILWATER
(DEFÉRENCE ENTRE LE NIVEAU D'ENTÊTE DE COLONNE ET LE RIVEAU D'ÉPANCHEMENT)
HIM NIMITS THE COSFFICIENT OF VISCOSITY OF THE WATER AT TILL
(MITEST LE COSFFICIENT DE VISCOSITE DE L'EAU À TILL)

^{* *} COEFFICIENT OF PERMEABILITY AT TIC CR 15'C COEFFICIENT DE PERMÉABILITÉ À T 'C OU 15'C

PERMEABILITY TEST (ESSAI DE PERMÉABILITÉ)

NAME OF SURVEY & LOCALITY
DENOMINATION OF UTENDETIC THOOMS:

LOCATION NO. & DEPTH

4 0.65 - 1.8 m IEC

DATE
DATE
TESTED 21
ESSAI PAR,

APPARATUS NO. | CONTAINER NO | SAMPLE INDISTURBED (DISTURBED) | P-24 | M DU RÉCIPIENT ; LÉCHANDILLON (INTACT - REMANÉ)

	ii.	* · · · · · · · · · · · · · · · · · · ·			
TTE TES	DIAMETER (DIAMETRE)	1.03	CONDITIONS OF SPECIMEN (CONDITIONS DU SPÉCIMEN)	BEFORE TEST (AVANT ESSAL)	AFTER TEST (APRES ESSAI)
BURE BURE	CROSS SECTIONAL AREA (SURF. DE LA SECTION)	0.833	WEIGHT (CONTAINER+SPECIMEN) (POIDS (RÉCIPIENT+SPÉCIMEN) W'()	3775	3896
	CAMETER (DIAMETRE)	- 10.0	WEIGHT OF SPECIMEN W = W - W/g; (PODS DU SPÉCIMEN)	1917	2038
SPECIMEN SPECIMEN)	CROSS SECTIONAL AREA (SURF. DE LA SECTION)	78.5	WET DENSITY (DENSITE HUMIDE) 7, = W, V(q /cm²)	1.971	2.038
	LENGTH (LENGUEUR)	12.7	DEGREE OF SATURATION S.(%)	58.3	92.1
	VOLUME) Y≃AL(∞	1000	YMATER COMPENT $w(\mathcal{S}_{\mathcal{O}})$	12.3	19.4
	CHT OF CONTAINER W, S; DU RÉCIPIENT)	1858	ERY DENSITY Yam Ya/(1+ 1)/g/cm³)	1.707	1.707
	EOFIC GRAVITY OS SPÉCIFIQUE) G,	2.664	VOID RATIO (INDICE DES VIDES)	0.561	0.561

TES I N	0.	······································			· · · · · · · · · · · · · · · · · · ·
(N' DE L'			1	2	3
TIME OF I	NITIAL OBSERVATION OÙ L'OBSERVATION COMM	HENCE J t 1	0	0	0
(MOMENT	FINAL OBSERVATION OÙ L'OBSERVATION FINN	II) t	47.2 ^{sec}	47.8 ^{sec}	46.8 ^{sec}
ELARSED (TEMPS É	COULÉ)	i ₁−t ₁.sec,	47.2	47.8	46.8
MIS)	HEAD FFÉRENCE DE NIVEAU)	n (en ;			
METHOD OUX CONSTANT	$A \cdot (t_2 - t_1)$				
	L/h				
# S (a	UME OF DISCHARGE SI (). UME OFÉPANCHEMENT EN L	. – t.) ():c=1.			
NSTAN THOUS	$Q/A \cdot (t_i - t_i)$				
	$k_T = \frac{L}{h} \cdot \frac{Q}{\lambda \cdot L_2 - L_1}$	—(0=/sec):			
(0/F	HEAD AT t., F.DE NIVEAU Ā t.,	h (m)	89.0	89.0	89.0
	HEAD AT.L. F.DE NIVEAU Ā L.	h (cm)	79.0	79.0	79.0
۸ × ۲ × ۲ × ۲ × ۲ × ۲ × ۲ × ۲ × ۲ × ۲ ×	h _z /h _z		1.1266	1.1266	1.1266
ME1HOD NIVEAUX	log ₁₀ (h _a /h _a)		0.0518	0.0518	0.0518
EAD N	a · L	····	10.579	10.579	10.579
FALLING HEAD (MÉTHODE DES	α <u>L</u> /A		0.1347	0.1347	0.1347
FAUL MÉRI	2.3/(t ,-t ,		0.0487	0.0481	0.0491
I	$k_T = \frac{\alpha L}{\lambda} \frac{2.3}{(t_1 - t_1)^{-16800}}$ EMPERATURE	$\frac{n_1}{h_2}$ (cm/Sec)	3.4×10 ⁻⁴	3.4×10^{-4}	3.4×10^{-4}
(TEMPÉRA	TORE DE L'EAU]	φ(C)	26	26	26
****	$\mu_{\mathrm{T}}/_{\mu_{15}}$			0.764	0.764
* *	$k \approx k_{\rm T} \cdot \frac{\mu + \mu}{\mu + \mu}$		2.6x10 ⁻⁴	2.6×10^{-4}	2.6x10 ⁻⁴
	LUE OF KIS MOYENNE DE KIS)		2.	6×10 ⁻⁴	om/sec

	TER CONTEN				
(TEN	iEUR EN EAI	J AVANT	ESSALI		
		No.	165		
W.,	234.2	W۵	221.4		
W _b	221.4	w,	119.4		
W.	12.8	W,	102.0		
		w =	12.6 %		
		No.	260		
V.	232.3	3M 2 -	219.5		
W ₃	219.5	·W.	112.7		
Ŵ.	12.8	W,	106.8		
	-	w =	12.0 %		
MEAN WATER CONTENT (TENEUR MOYENNE EN EAU)					
w = 12.3					

	TENT AFTER TE				
(FENEUR EN	EAU APRÉS ESS	ALJ			
:	No.				
W.	W				
W	. W.				
W	W,				
	<u>w</u> =	<u> </u>			
	No.				
W	W 5	·			
Wb	W.				
W	W,				
	w =	c,			
MEAN WATER CONTENT (TENEUR MOYENNE EN EAU)					
	v =				

[#] OFFERENCE BETWEEN HEAD WATER AND TAILWATER
***COFFERENCE ENTRE LE NOVEAU D'EAU EN TÊTE DE COLONNE ET LE NOVEAU D'ÉPANCHEMENT)

****##IT'S THE COEFFICIENT OF VISCOSITY OF THE WATER AT T.C.

(#ITEST LE COEFFICIENT DE VISCOSITÉ DE L'EAU À T.C.

^{* *} COEFFICIENT OF PERMEABILITY AT 1 $^{\circ}$ OR 15 $^{\circ}$ (COEFFICIENT DE PERMÉABILITÉ Å 1 $^{\circ}$ OU 15 $^{\circ}$)

PERMEABILITY TEST (ESSAI DE PERMÉABILITÉ)

NAME OF SURVEY & LOCALITY

DATE (DATE)

Aug., 1977

LOCATION & DEPTH مهرب عامول بالربارة مستحيد المؤرب كالمالية ومنسب متوريف تجد

DÉNOMINATION DE L'EMPLÉJE, EL LICATIFF

0.65 - 1.8 m

TEC

TESTED BY LESSAL PAR

	PARATUS NO. DE L'APPAREIL)	P-21	CONTAIN (H) SU R	ER 10 ÉCPÆNT;		SAMPLE ECHANTILLO		D - (DSTURBED) REMANIÉ ;
TTE TTE)	DIAMETER (DIAMETRE)	·n	1.51		ONDITIONS OF SPEC ONDITIONS DU SPÉC		BEFORE TEST (AVANT ESSAL)	AFTER TEST (APRÉS ESSAI)
BURE	CROSS SECTIONAL (SURF. DE LA SECT	2 !	1.79		ONTAINER - SPECIMEN CIPIENT - SPÉCIMEN)		3914	3966
	DAMETER (DAMÈTRE)		10.0	NEIGHT OF POIDS DU		$H_{i} \approx W' + W_{i}(\mathbf{g}_{i})$	2006	2058
SPECIMEN SPECIMEN.	CROSS SECTIONAL (SURF DE LA SECT		78.5	WET DENSI		$\gamma_t\!=\!W_t/V(q_t/\cos^2)$	2.006	2.058
3PEC (SPEC)	LENGTH (LONGUEUR)	ا و	12.7		SATURATION SATURATION :	\$,∄∂,	77.9	92.8
	VOLUME (VOLUME)	$V = A L (c \pi^3)$	1000	MATER CON CTENEUR EN		$w^{-\varepsilon}$ o,	15.7	18.7
	GHT OF CONTAINER OS OU RÉGIPIENT)	W _a (B)	1908	DRY DENSII DENSITĖ SE		$(1+\frac{1}{16})$, $(3/cn^3)$	1.734	1.734
	ECIFIC GRAVITY DS SPÉCIFIQUE)	. G,	2.664	VOID RATIO		, ę	0.536	0.536

TEST NO. [N' DE L' ESSAI]	1	2	3
TIME OF INITIAL OBSERVATION (MOMENT OU L'OBSERVATION COMMENCE)	0	0	.0
TIME OF FINAL OBSERVATION (MOMENT OO L'OBSERVATION FINAIT)	1800 ^{sec}	1800 ^{sec}	1800 ^{sec}
ELAPSED TIME (TEMPS ÉCOULÉ) tt.sec.	1800	1800	1800
# HEAD (OFFERENCE DE NIVEAU)			
₹ 	1		
A-(t,:, L/h L/h L/h L/h L/h L/h L/h L/			
VOLUME OF DISCHARGE IN 1,-1, YOUNG DEPARCHEMENT EVEN,-1)		,	: : :
0/A-(t,-t)			
$A't_{i} = t_{i}$:		. • :
W HEAD AT I. him	88.5	88.5	88.5
WEATURD AT I. h.m. WETHOOD WELLING HEAD MEHOOD AT I. h.m. which was a series of the control of t	86.3	86.4	86.45
% h./h,	1.0255	1.0243	1.0237
	0.0109	0.0104	0.0102
EAD N	22.733	22.733	22.733
2 0 al '√	0.2896	0.2896	0.2896
2.3/(t t)	1.28×10^{-3}	1.28×10^{-3}	1.28x10
$k_T = \frac{a_L}{A} \cdot \frac{c_3}{c_1 - c_1} \cdot \frac{\varphi_3}{h_2} \cdot \frac{h_1}{h_2} \cdot c_1/sec$	$4.0x10^{-6}$	3.8×10^{-6}	$3.7 \text{x} 10^{-6}$
WATER TEMPERATURE (TEMPÉRATURE DE L'EAU) 7 %	22	22	22
x**	0.839	0.839	0.839
新新	3.3x10 ⁻⁶	$3.1 \text{x} 10^{-6}$	3.3×10^{-6}
MEAN VALUE OF RE (VALEUR MOYENNE DE RE)		3.2x10 ⁻⁶	en 'SAC
# DEFERENCE DETWEEN WEAD WATER AN	ED TAIL WATER	J'S ENTO	

WATER CONTER (TENEUR EN EA					
	No.	205			
W _a 338.2	W۵	309.2			
W _b 309.2		124.6			
W _x 29.0	Ψ,	184.6			
	w =	15.7	ر ،		
	No.				
We	W s				
W ,	W.				
W	₩,	· ·			
	w =	·.	26		
MEAN WATER CONTENT (TENEUR MOYENNE EN EAU)					
<u>tv</u>	=	15.7	o _ó		

	TENT AFTER T EAU APRÉS ES	
w	No.	
Wa.	W _a	
W _b	We	
W	W,	
	w =	c _o
	No.	
W.	W à	
W _b	w,	·
W.	W,	
	w =	<u>,</u>
MEAN WATER FENEUR MOY	CONTENT ENNE EN EAU))
	v ==	00

[#] OFFERENCE BETWEEN HEAD WATER AND TAILWATER

OFFERENCE ENTRE LE NYRAU D'EAU EN TÊTE DE COLONNE ET LE NIVEAU D'ÉPANCHEMENT)

* ##! % THE COEFFICIENT OF VISCOSITY OF THE WATER AT TIC.

(#I EST LE COEFFICIENT DE VISCOSITÉ DE L'EAU X TIC.

* * COEFFICIENT OF PERMEABILITY AT T'C OR 15'C COEFFICIENT DE PERMÉABILITÉ À T 'C OU 15'C

PERMEABILITY TEST (ESSAI DE PERMÉABILITÉ)

NAME OF SURVEY & LOCALITY

DATE
DATE:

LOCATION NO. & DEPTH

TESTED BY

4 0.65 - 1.8 m 2EC

DATE

ESSA PAR.

APPARATUS NO.	CONTAINER NO.	:	5-M-1 E	UNDIST	URSED (DISTURBED))
(N°DE L'APPAREIL)	NIDU RECREENT;	i	ESHANDILLON)			

	the state of the s				
31. 1911	DIAMETER (DIAMETRE)	1.04	CONDITIONS OF SPECIMEN (CONDITIONS DU SPÉCIMEN)	BEFORE TEST (AVANT ESSAL)	AFTER TEST (APRÉS ESSAI)
	CROSS SECTIONAL AREA (SURF. DE LA SECTION)	0.849	WEIGHT (CONTAINER + SPECIMEN) POIDS RECIPIENT + SPECIMEN) W//8.	3981	4110
	D'AMETER [D'AMETRE]	10.0	WEIGHT OF SPECIMEN W.=W'-W,g; (PODS DU SPECIMEN)	1937	2066
	CROSS SECTIONAL AREA Alena (SURF DE LA SECTION)	78.5	WET DENSITY (DENSITÉ, HUMIDE) / (** W _E V(*/*/**)	1.937	2.066
SPÉCIMES.	LENGTH (LCNGUEUR) L(co	12.7	DEGREE OF SATURATION S.(%)	53.4	91.1
	VOLUME V = AL (om 3	1000	WATER CONTENT (TENEUR EN EAU) w/76,	10.4	17.7
	GHT CF CONTAINER DS DU RÉCIPIENT) W _a ls	2044	CRY DENSITY DENSITÉ SÉCHE) 74 7 (1+ 11 /3/62)	1.755	1.755
	ECIFIC GRAVITY OS SPÉCIFIQUE) G,	2.664	VCD RATIO (INDICE DES VIDES)	0.518	0.518

TEST NO.			
(N' DE L' ESSAI)	1	2	3
TIME OF INITIAL OBSERVATION (MOMENT OUT OBSERVATION COMMENCE) 1.	0	0	0
TIME OF FINAL OBSERVATION (MOMENT OÙ L'OBSERVATION FINAIT)	82.0 ^{sec}	sec 83.0	72.9 sec
ELAPSED TIME (TEMPS ÉCOULÉ) tambés	82.0	83.0	72.9
# HEAD (DEFÉRENCE DE NIVEAU) h 555		:	
OFFERENCE DE INVEAU) A (t,-t,-t,-t,-t,-t,-t,-t,-t,-t,-t,-t,-t,-t			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
$\frac{\partial A}{\partial x} = \frac{\partial A}{\partial x} + $			
$R_T = \frac{L}{h} + \frac{Q}{A(L_2 - L_1)} (en/sec)$			
EAD AT t', it (cm)	90.3	90.3	.90.3
W # HEAD AT t haten	70.3	70.3	70.3
h,/h,	1.284	1.284	1.284
OB15 (h 1/h 2.	0.109	0.109	0.109
A D A D A D A D A D A D A D A D A D A D	10.782	10.782	10.782
200 100 110 110 110 110 110 110 110 110	0.137	0.137	0.137
2.3/ct ,-t ;	0.0280	0.0277	0.0316
$k_T = \frac{a_L}{A} \cdot \frac{2.3}{(k_2 - k_3)} \cdot \frac{18}{h_2} \cdot \frac{d_A}{h_2} (cm/sec)$	4.8x10 ⁻⁴	4.14x10 ⁻	$\frac{4.71 \times 10^{-4}}{4.71 \times 10}$
WATER TEMPERATURE (TEMPÉRATURE DE L'EAU) TOS	25	25	24
*** μ _{1/μ,5}	0,782	0.782	0.800
	3.27x10 ⁻⁴	3.24x10 ⁻⁷	3.77×10^{-4}
MEAN VALUE OF NE (VALEUR MOYENNE DE NE)	3	3.43×10^{-4}	em/Sec

WATER CONTE (TENEUR EN E			~~~
	No.	165	
W. 219.3	Wa	209.9	
w, 209.9	W.e	119.5	
W. 9.4	W	90.4	
	<u>w</u> =	10.4	€2
	No.		
Wa .	.V 5		
W _a .	W.		
W _e ·	W,		
<i>a</i>	w =		0
MEAN WATER (TENEUR MOYE			
<u>_w</u>	=	10.4	0

L		
1	ENT AFTER TES AU APRÉS ESSA	
	No.	
Wa	W,	
w,	W _e ,	
W	₩,	
	w =	1 50
	No	
W.a	₩,	
W ₃	W,	
W	₩,	
	w =	. 95
MEAN WATER CTENEUR MOYE		
u'	=	0%

DEFERENCE BETWEEN HEAD WATER AND TAILWATER
(OFFÉRENCE ENTRE LE NIVEAU D'EAU EN TÊTE DE COLONNE ET LE NIVEAU D'ÉPANCHEMENT)
###T IS THE COEFFICIENT DE VISCOSITY OF THE WATER AT T. J.
(#T EST LE COEFFICIENT DE VISCOSITÉ DE L'EAU À T. J.

* * COEFFICIENT OF PERMEABILITY AT 1 CO OR 15 COEFFICIENT DE PERMÉABILITÉ À 1 CO OU 15 COU

PERMEABILITY TEST (ESSAI DE PERMÉABILITÉ)

NAME OF SURVEY & LOCALITY
(DÉNOMINATION DE L'ENQUÊTE ET LOCALIÉ:

LOCATION NO. & DEPTH
(N'DE L'ÉCHANDILLON ET DIRECONDUME)

4 0.65 - 1.8 m 2EC

DATE
(DATE)
Aug., 1977

TESTED BY
ESSAI PAR.

APPARATUS NO. CONTAINER NO. SAMPLE UNDISTURBED - QISTURBED - (N° DE L'APPAREIL) (N° DU RÉCIPIENT) (ÉCHANTILLON) (INTACT - REMANIÉ)

	·				
TTE (TE)	DIAMETER (cm)	0.88	CONDITIONS OF SPECIMEN (CONDITIONS DU SPÉCIMEN)	BEFORE TEST (AVANT ESSAL)	AFTER TEST (APRES ESSAI)
BURETT (BURETT	CROSS SECTIONAL AREA (cm²)	0.61	WEIGHT (CONTAINER+SPECIMEN) (POIDS (RÉCIPIENT+SPÉCIMEN) W'(8,	3995	4058
	DAMETER (om)		WEIGHT OF SPECIMEN W=W'-W,g) (POIDS DU SPÉCIMEN)	2009	2072
M CN	CROSS SECTIONAL AREA A(om²)	78.5	WET DENSITY $\gamma_t = W_t N(q / cm^3)$ (DENSITÉ HUMIDE)	2.009	2.072
SPECIMEN SPECIMEN)	LENGTH L(∞)	12.7	DEGREE OF SATURATION S,(%)	70.9	89.7
	VOLUME V=AL(cm ³)	1000	WATER CONTENT (TENEUR EN EAU) w(%)	13.4	16.9
	GHT OF CONTAINER W _e (g) OS DU RÉCIPIENT)	1986	DRY DENSITY $ \gamma_d = \gamma_t/(1+\frac{1}{100})(g/\sigma a^3) $ (DENSITÉ SĚCHÉ)	1.772	1.772
	ECIFIC GRAVITY G. DS SPÉCIFIQUE) G.	2.664	VOID RATIO : (INDICE DES VIDES)	0.503	0.503

1	2	3
•		
0	0	0
600 sec	600 ^{sec}	600 sec
600	600	600
101.7	101.7	101.7
82.0	82.8	83.0
1.240	1.228	1.225
0.0935	0.0893	0.0882
7.7216	7.7216	7.7216
0.0983	0.0983	0.0983
0.00383	0.00383	0.00383
3.52x10 ⁻⁵	3.36×10^{-5}	3.32x10 ⁻⁵
24	24	24
0.80	0.80	0.80
2.81x10 ⁻⁵	2.68x10 ⁻⁵	2.65x10 ⁻⁵
	5	om/sec
	101.7 82.0 1.240 0.0935 7.7216 0.0983 0.00383 3.52x10 ⁻⁵ 24 0.80 2.81x10 ⁻⁵	0 0 600 sec 600 sec 600 600 600 101.7 101.7 82.0 82.8 1.240 1.228 0.0935 0.0893 7.7216 7.7216 0.0983 0.0983 0.00383 0.00383 3.52x10 ⁻⁵ 3.36x10 ⁻⁵ 24 24 0.80 0.80

	ER CONTENT EUR EN EAL			
		No.	180	
Ŵ.	267.8	:W*	251.0	
w,	251.0	W,	125.4	
₩.	16.8	₩,	125.6	
	_	w =	. 13.4	56
		No		
₩.		w,	Vicencia	
W,		W.		
W		W,		
		w =	<u> </u>	%
	N WATER O			
	<i>w</i> =		13.4	%

	ONTENT AFTER TEST	
(TENEUR E	EN EAU APRÉS ESSAI)	
	No.	
W.	W s	
W,	. W.	
W.	w,	
	w =	00
	Na	
w.	W.	
W.,	W.	
W.	W, .	
	w =	%
	TER CONTENT NOYENNE EN EAU)	:
	w =	%

* DIFFERENCE BETWEEN HEAD WATER AND TAILWATER

(DIFFÉRENCE ENTRE LE NIVEAU D'EAU EN TÊTE DE COLONNE ET LE NIVEAU D'ÉPANCHEMENT)

*** ## IT IS THE COEFFICIENT OF VISCOSITY OF THE WATER AT T'C.

(#T EST LE COEFFICIENT DE VISCOSITÉ DE L'EAU À T'C.

* * COEFFICIENT OF PERMEABILITY AT 1 C OR 15 C (COEFFICIENT DE PERMÉABILITÉ À 1 °C OU 15 °C)

沙山

CONSOLIDATION TEST (CALCULATION) (ESSAI DE CONSOLIDATION (CALCUL))

			- 1	
NAME OF SURVEY & LOCALITY			DATE:	
ÉNOMINATION DE L'ENQUÊTE ET L'OCALITÉ)		•	(DATE-)	Aug., 1977
LOCATION NO. & DEPTH	-7		TESTED BY	**** ***** **** **** **** ***** ***** ****
TICLUSE OF THE PROPERTY OF THE	f	$< 0.2 $ m ~ 2.5	m i (ESSAL PAR)	

		N. C. PROPONDEUR:		<u> </u>	(()'.2 m ~	2.5 m	I (ESSAL PAR	<u> </u>
	AMPLE FANTILLON)	UNDISTURBED (INTACT + I	(DISTURBED REMANIE)		ROOM TEMPERA MPERATURE DU		°C~ C	APPARATU (N° DE L'	JS NO. APPAREIL 1
	CLASSIFICA (CLASSIFICA		CH		CROSS SECTIO (SURFACE DE LA	NAL AREA V SECTION)	28.27 «	MINAL WATER	R (ONTENT AUJINITIALE) W. 36.13 \(\)
PROPERTIES (PROPIÉTIÉS)	SPECTIC O (FOIDS SPÉ	CIFIQUE) Gs	2.695		HEIGHT OF SPE (HAUT, DU SPÉC	MEN) ""	2.000	SNEIAL VOLUN SNEIAL VOLUN	DLEME METIAL) ' 2,144
PROPE (PROPE	}	LIQUIDITÉ? WI	94.2	SPECIF	DRY WEIGHT (POIDS SECHE)		71.1	INITIAL VICTO INDICE DES V DEGREE OF	(CES (MIRC) 1.144
		PLASTICITÉ) "	21.9	_ -	SUBSTANCE HEIGH (HAUTEUR DE SUB	HT STANCE: hs	0.933 a	25 36 35 AV	85.1
Color of Col	PRESSUR (PRESSION P 22) (10 ⁻³ :=)	h (ca)	<u>B</u> √m)	Δ E {?3}	$mn = (cm^2/kq)$	RATIO CINDICE DE VOLUME	VOID PATIO NOTOE DES VIDES	FORMULAE (FORMULE)
ū	0	0.2 21.0	2.000	1.990	1 055	5.28x10	$2^{2.144}$	1.144	$hs = \frac{Wd}{Gs \cdot \gamma \omega \cdot \Lambda}$
1	0.2).2 30.4	1.979	1.964		7.74x10	2.121	1.121	$\Delta \epsilon = \frac{\Delta d}{h}$
2	0.4		1.949				2.089	1.089	$m_0 = \frac{\Delta \varepsilon(S_0)}{\Delta \cdot 0} \cdot \frac{1}{100}$
3	0.8	55.4	1.893	1.92		7.21x10	2.029	1.029	$\begin{array}{c} 1 + - \frac{h}{hs} \\ e = f - 1 \end{array}$
4	1.6	0.8 80.7	1.813	1.85	3 4.355	5.44x10	1.943	0.943	Sro = Gs·w.,
5	£	1.6 99.0		1.76	5.612	3.51x10]4		$\overline{p} = \sqrt{\frac{p_{n-p_{n-1}}}{p_{n-p_{n-1}}}}$
		3.2 104.0		1.66	2 6.258	1.96x10		0.837	VENETHOD(MÉTHODE√E).
, 6	4	5.4 110.3	1.610	1.55	7.093	1.11x10	21.726	0 726	C 0.848 (h./2)/
7	12.8 -12	2.6 -191.7	1.499	1.59	5	- ,	1.607	0.607	METHODE PAR COURSE COMPARÉEN (0.197(B/2)2
.8	0.2		1.691				1.710	0.710	C = △d · C v
9	ļ								$k = \frac{C v \cdot m v \cdot \gamma \omega}{1,000}$
CANDALICE OF LCAS OF REASONERS	PRESSUR (PRESSIC:	1] : 0.8335 23 0.197/6/2 2	(constant)	C ∈ (cm²/(n)n	i i		Си (ся ² /пит)	k (en/min)	Ad CONSOLIDATION SETTLEMENT [TASSEMENT APRES CONSOLIDATION]
0	0							}	h HEIGHT OF SPECIMEN 7 (HAUTEUR DV. SPECIMEN)
1	0.2	.1 0.195	9.5	0.02	1 14.0	0.475	9.75x10	[5.15x10	h mean height of specimen specimen shauteur moyenne
2	0.4	.28 0.190	12.5	0.01	5 15.0	0.493	7.49x10	5.80x10	COMPRESSIVE
3		.57 0.182	10.5	0.01	7 17.5	0.316	5.47x10	3.94x10	SIFAN CÉFORMATION DE CEMPRESSION
	1	.13 0.169	67	0.002	25 45	0.558	1.41x10	7.67x10	MM COREFFICIENT OF VOLUME COMPRESS
 5	† · · · · · · · · · · · · · · · · · · ·	.26 0.153	110	0.00	L4 71	0.717	9.99x10	3.51x10	8 IBILITY COEFFICIENT DE COMPRÉSTIBILITÉ VOLUMÉTRICHE
ñ		53 0.136	125	0.00	11 90	0.865	9.41x10		GONSOLIDATION PRIMARE
7	12.8	05 0.119	115	0.00	10 95	0.861	\$.92x10	9.90x10	-9 Cu coefficient of
3	14.0	· · · · · · · · · · · · · · · · · · ·					/		CONSOLIDATION CONFORMING CONFOLIDATION CONFOLIDATION
									R COESEIO ME OF
					224	· · · · · · · · · · · · · · · · · · ·			LOSEFFORM DE DESMEARENTÉ)

		CONSOLIDATION SSAI DE CONSOL		letog P CURVE)	FOR REPORTING (POUR LE RAPPORT)
NAME OF SURVEY & L.				DATE (DATE)	Aug. 1977
FORTETON & DEPTH	(4)35,4() 45	7	$0.2_{m} \sim 2.5$	m + (ESSAL PAR)	<u>;</u>
RUNDISTURBED OR DISTURBED UNIACT OU REMANIÉ)	* CLASSIFICATION (CLASSIFICATION)	Gs	# LIQUID LIMIT #L(%) (LIMIT: DE LIQUIDITÉ)	% INITIAL DIMENSION (DIMENSION INITIAL! HEIGHT (HAUTEUR)	
DISTURBED					
SINITIAL WATER CONTENT (%) (TENEUR EN EAU INITIALE)	#INITIAL VOLUME RATIO INDICE DE VOLUME (INDICE DE VOLUME)	RATIO e. (INDICE DES VIDES INITIAL)	DEGREE OF INITIAL SATURATION Sr (%) DEGRÉ DE SATURATURATION INITIALE		THELD STRESS OF CONSOLIDATION CONSOLIDATION CONSOLIDATION CONSOLIDATION CONSOLIDATION CONSOLIDATION CONSOLIDATION CONSOLIDATION CONSOLIDATION CONSOLIDATION CONSOLIDATION CONSOLIDATION CONSOLIDATION CONSOLIDATION CONSOLI

[#] THE RECORDING IS NOT NECESSARY IN THE CASE THAT CALCULATION DATA SHEET IS APPENDED.

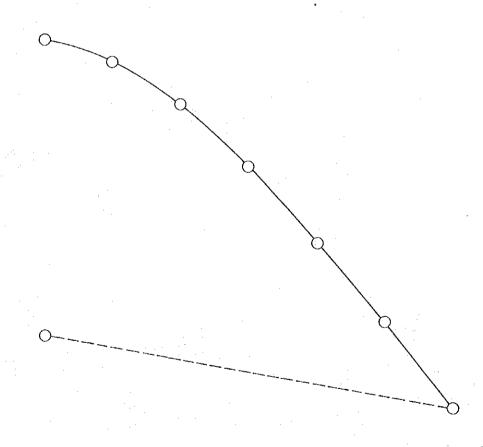
e - log p CURVE | log p (COURBE)

1.2

1.1

VOID RATIO
(INDICE DES VIDES)

0.6

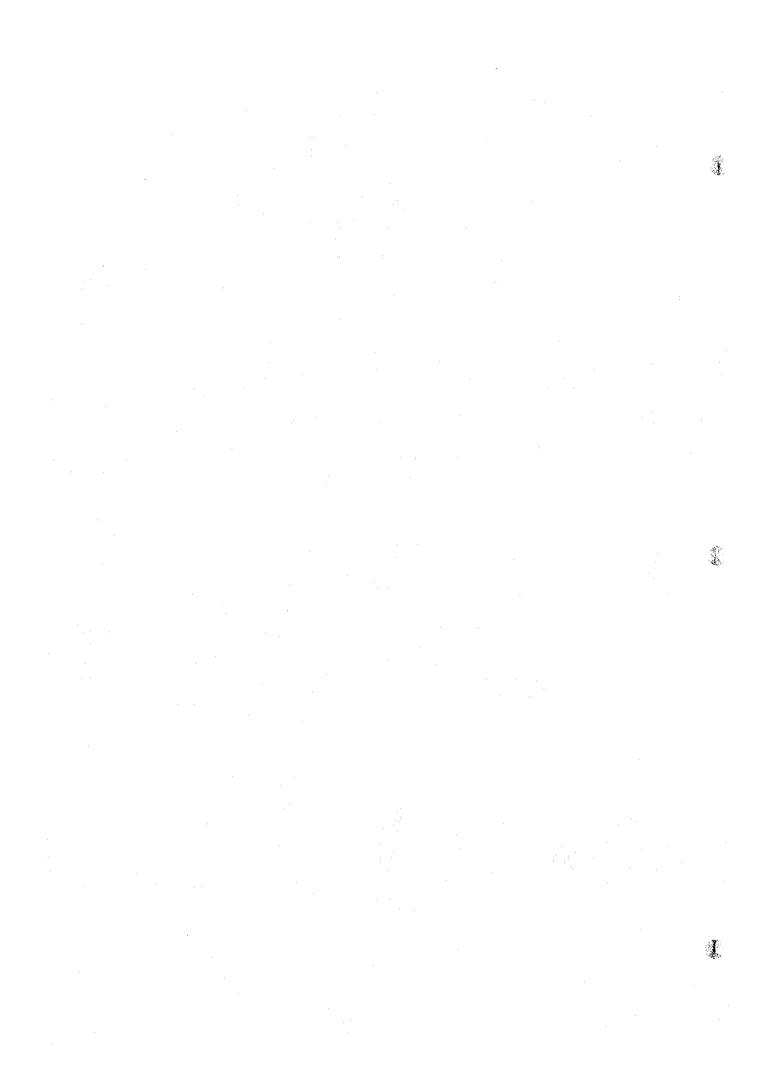


CONSOLIDATION PRESSURE (PRESSION DE CONSOLIDATION)

D(my/om2)

N. K FORM NO. 013 (1975)

LES CHIFFRES NE FIGURENT PAS ICIQUAND LA FEUILLE DES CALCULS DÉTAILLÉS EST ANNEXÉE)



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