BORING LOG
FIELD DATA

Project COLORADO RIVER — Location 1+30 PUBLIC WALKWAY — Date 30 OCTOBER 1976
Drill Rig FALLING 1500 — Inspector LANGFORD — Operator BLACK — Surface elev +2.5 MLT 1130
Levee District — Job No. — Boring No. 76-188

SAMPLE NUMBER	DATE TAKEN 1976	STRATUM FROM	STRATUM TO	DRIVE FROM	DRIVE TO	SAMPLE FROM	SAMPLE TO	TYPE OF SAMPLER	CONTENTS	POCKET PENETROMETER VALUE	CLASSIFICATION AND REMARKS
	30 OCT	0.0	8.5								WATER DEPTH 1130 HOURS
				8.5	9.0						NO RECOVERY
				9.0	9.5						9 BLOWS
				9.5	10.0						7 BLOWS
		8.5		10.0	10.5						SHELL WITH SAND AND CLAY.
			17.5	10.5	17.5						NO RECOVERY
1		17.5		17.5	20.0	19.0	20.0		TUBE	0.0	GRAY FINE SAND WITH CLAY
											AND TRACE OF SHELL.
2			23.6	20.0	22.5	21.5	22.5		TUBE	0.0	
3		23.6		22.5	25.0	24.0	25.0	UNC OR	TUBE	0.0	BROWN SANDY CLAY, VERY SOFT.
4				25.0	27.5	26.5	27.5	UNC	TUBE	0.0	
			31.8	27.5	30.0						NO RECOVERY, SLID OUT OF TUBE
5		31.8		30.0	32.5	31.5	32.5	UNC	TUBE	3.25	BROWN, GRAY CLAY WITH
											SAND POCKETS, VERY STIFF.
6				32.5	35.0	34.0	35.0		TUBE	3.25	
7				35.0	37.5	36.5	37.5		TUBE	3.25	

BORING LOG
FIELD DATA

Project COLORADO RIVER Location _____ Date _____

Drill Rig _____ Inspector _____ Operator _____ Surface elev _____

Levee District _____ Job No. _____ Boring No. 76-188

SAMPLE NUMBER	DATE TAKEN	STRATUM FROM	STRATUM TO	DRIVE FROM	DRIVE TO	SAMPLE FROM	SAMPLE TO	TYPE OF SAMPLER	CONTAINER	POCKET PENETROMETER VALUE	CLASSIFICATION AND REMARKS
8				37.5	40.0	39.0	40.0	UNC	TUBE	1.25	STIFF
9				40.0	42.5	41.5	42.5		TUBE	1.25	
10			43.5	42.5	45.0	43.5	44.1		Tube		Gray sand
11		43.5	47.0	45.0	47.5	47.0	47.5		Tube	3.5	Brown clay w/sand layers, very stiff
12				47.5	50.0	48.2	49.2	UNC	Tube	1.75	stiff
				50.0	51.0						NO recovery
13				51.0	53.0			Split Spoon	jar		brown sand w/clay
14				8.5	9.0	8.5	9.0	Sampler	jar		Gray, brown fine, fine sand
											Finished 1600
											TOTAL DEPTH 53.0

WES FORM NO. 819 REV NOV 1971 PREVIOUS EDITION IS OBSOLETE

Sheet 2 of 2 Sheets

1564

UNCONFINED COMPRESSION TEST

DATE: 1-22-77

PROJECT: Colorado River | EXCAVATION NUMBER: B-188 | SAMPLE NUMBER: C-3 (14-25)

PROVING RING DIAL NUMBER | PROVING RING NUMBER | CALIBRATION CURVE NUMBER

PROVING RING CONSTANT, K_r | VERTICAL DIAL NUMBER: ~~XXXXXXXXXXXXXXX~~ Cyl # 3 | RATE OF LOAD APPLICATION: 0.040

FORMULAS

$$\text{Area} = \frac{\pi D^2}{4} = \frac{C^2 D}{4} \qquad \text{Corrected Area, } A = \frac{A_o \text{ (sq. ft.)}}{1 - E} \qquad \text{Unit Strain, } E = \frac{\Delta L}{L_o} \qquad \text{Unit Stress} = \frac{P \text{ (lb.)}}{A \text{ (sq. ft.)}}$$

INITIAL MEASUREMENTS ON SAMPLE

	DIAMETER, D (in.)	CIRCUMFERENCE, C (in.)	AREA (sq. in.)
TOP			
CENTER			
BOTTOM			

AVERAGE AREA, A_o: SQ. IN. | SQ. FT.

HEIGHT, L_o (in.)

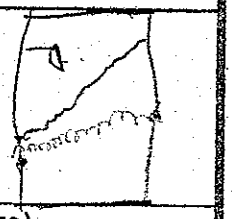
ELAPSED TIME (min.)	PROVING RING DIAL READING (0.0001 in.)	LOAD, P (lb.) (Ring Dial x K_r, or from calibration curve)	VERTICAL DIAL READING (in.)	VERTICAL DIAL DIFFERENCE, ΔL (in.)	UNIT STRAIN, E (in./in.)	CORRECTED AREA, A (sq. ft.)	UNIT STRESS (lb./sq. ft.)
	14		025		0.63	3.01	194
	24		050				
	31		075		1.87	3.05	424
	36		100				
	39		125		3.13	3.09	527
	41		150				
	43		175		4.38	3.13	574
	45		200				
	47		225		5.63	3.17	619
	48		250				
	49		275		6.88	3.21	637
	50		300				
	51		325		8.13	3.25	655
	51		350				
	52		375		9.38	3.30	658
	52		400				
	53		425		10.63	3.34	663
	53		450				
	54		475		11.88	3.39	665
	54		500				
	54		525		13.13	3.44	656
	54		550		13.75	3.47	650

WATER CONTENT (%)
W. W. in Cyl # 3 445 37

UNCONFINED COMPRESSIVE STRENGTH, q_u (lb./sq. ft.)

REMARKS AND CALCULATIONS (Use reverse side, if more space is needed)

Pen - 0.50
Color - Brown
Dish - 193
W. W. - 350
D. W. - 255



TECHNICIAN (Signature): R. Watts | COMPUTED BY (Signature) | CHECKED BY (Signature)

DD FORM 1 AUG 57 1213

GPO 931154

1569

UNCONFINED COMPRESSION TEST

DATE: 1-22-77

PROJECT: Colorado River | EXCAVATION NUMBER: No. 188 | SAMPLE NUMBER: 31.5 C-5 (325)

PROVING RING DIAL NUMBER | PROVING RING NUMBER | CALIBRATION CURVE NUMBER

PROVING RING CONSTANT, K_r | VERTICAL DIAL NUMBER: XXXXXXXXXXXXXXX Cyl # 3 | RATE OF LOAD APPLICATION: 0.040

FORMULAS

$$\text{Area} = \frac{\pi D^2}{4} = \frac{C^2 D}{4} \qquad \text{Corrected Area, } A = \frac{A_o \text{ (sq. ft.)}}{1 - E} \qquad \text{Unit Strain, } E = \frac{\Delta L}{L_o} \qquad \text{Unit Stress} = \frac{P \text{ (lb.)}}{A \text{ (sq. ft.)}}$$

INITIAL MEASUREMENTS ON SAMPLE	DIAMETER, D (in.)	CIRCUMFERENCE, C (in.)	AREA (sq. in.)
TOP			
CENTER			
BOTTOM			

AVERAGE AREA, A_o: SQ. IN. | SQ. FT.

HEIGHT, L_o (in.)

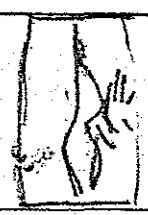
ELAPSED TIME (min.)	PROVING RING DIAL READING (0.0001 in.)	LOAD, P (lb.) (Ring Dial x K_r, or from calibration curve)	VERTICAL DIAL READING (in.)	VERTICAL DIAL DIFFERENCE, ΔL (in.)	UNIT STRAIN, E (in./in.)	CORRECTED AREA, A (sq. ft.)	UNIT STRESS (lb./sq. ft.)
	43		025				
	118		050		1.25	3.03	1626
	157		075				
	179		100		2.50	3.06	2443
	192		125				
	203		150		3.75	3.11	2726
	213		175				
	221		200		5.00	3.15	2930
	229		225				
	235		250		6.25	3.19	3076
	240		275				
	245		300		7.50	3.23	3207
	250		325				
	255		350		8.75	3.28	3247
	259		375				
	263		400		10.00	3.32	3308
	267		425				
	270		450		11.25	3.37	3396
	274		475				
	277		500		12.50	3.42	3382
	280		525				
	283		550		13.75	3.47	3406

WATER CONTENT (%): W. W. in Cyl #3 475 25

UNCONFINED COMPRESSIVE STRENGTH, q_u (lb./sq. ft.)

REMARKS AND CALCULATIONS (Use reverse side, if more space is needed)

Pan - 2.25
Color - BROWN
Dish - 12
W. W. - 380
D. W. - 305



TECHNICIAN (Signature) | COMPUTED BY (Signature) | CHECKED BY (Signature)

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GPO 931154

1564

UNCONFINED COMPRESSION TEST

DATE

PROJECT	EXCAVATION NUMBER	SAMPLE NUMBER

PROVING RING DIAL NUMBER	PROVING RING NUMBER	CALIBRATION CURVE NUMBER
PROVING RING CONSTANT, K_r	**VERTICAL DIAL NUMBER**	**RATE OF LOAD APPLICATION**

FORMULAS

$$\text{Area} = \frac{\pi D^2}{4} = \frac{C^2 D}{4} \qquad \text{Corrected Area, } A = \frac{A_o \text{ (sq. ft.)}}{1 - E} \qquad \text{Unit Strain, } E = \frac{\Delta L}{L_o} \qquad \text{Unit Stress} = \frac{P \text{ (lb.)}}{A \text{ (sq. ft.)}}$$

INITIAL MEASUREMENTS ON SAMPLE				AVERAGE AREA, A_o	
	DIAMETER, D (in.)	CIRCUMFERENCE, C (in.)	AREA (sq. in.)	SQ. IN.	SQ. FT.
TOP					
CENTER				HEIGHT, L_o (in.)	
BOTTOM					

ELAPSED TIME (min.)	PROVING RING DIAL READING (0.0001 in.)	LOAD, P (lb.) (Ring Dial x K_r, or from calibration curve)	VERTICAL DIAL READING (in.)	VERTICAL DIAL DIFFERENCE, ΔL (in.)	UNIT STRAIN, E (in./in.)	CORRECTED AREA, A (sq. ft.)	UNIT STRESS (lb./sq. ft.)
	286		575				
	290		600		15.00	3.52	3440
	293		625				
	296		650		16.25	3.57	3462
	298		675				
	301		700		17.50	3.63	3463
	304		725				
	307		750		18.75	3.68	3484
	310		775				
	313		800		20.00	3.74	3495

WATER CONTENT (%)	UNCONFINED COMPRESSIVE STRENGTH, q_u (lb./sq. ft.)

REMARKS AND CALCULATIONS (Use reverse side, if more space is needed)

TECHNICIAN (Signature)	COMPUTED BY (Signature)	CHECKED BY (Signature)

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15.64

UNCONFINED COMPRESSION TEST

DATE: 1-22-77

PROJECT: Colorado River

EXCAVATION NUMBER: 76-188

SAMPLE NUMBER: C-8 (39-40)

PROVING RING DIAL NUMBER:

PROVING RING NUMBER:

CALIBRATION CURVE NUMBER:

PROVING RING CONSTANT, K_r:

VERTICAL DIAL NUMBER: ~~XXXXXXXXXXXXXX~~ Cyl # 3

RATE OF LOAD APPLICATION: 0°0 40

FORMULAS

$$\text{Area} = \frac{\pi D^2}{4} = \frac{C^2 D}{4} \qquad \text{Corrected Area, } A = \frac{A_o \text{ (sq. ft.)}}{1 - E} \qquad \text{Unit Strain, } E = \frac{\Delta L}{L_o} \qquad \text{Unit Stress} = \frac{P \text{ (lb.)}}{A \text{ (sq. ft.)}}$$

INITIAL MEASUREMENTS ON SAMPLE

	DIAMETER, D (in.)	CIRCUMFERENCE, C (in.)	AREA (sq. in.)
TOP			
CENTER			
BOTTOM			

AVERAGE AREA, A_o: SQ. IN. | SQ. FT.

HEIGHT, L_o (in.)

ELAPSED TIME (min.)	PROVING RING DIAL READING (0.0001 in.)	LOAD, P (lb.) (Ring Dial x E_r, or from calibration curve)	VERTICAL DIAL READING (in.)	VERTICAL DIAL DIFFERENCE, ΔL (in.)	UNIT STRAIN, E (in./in.)	CORRECTED AREA, A (sq. ft.)	UNIT STRESS (lb./sq. ft.)
	11		025		0.63	3.01	153
	33		050				
	51		075		1.87	3.05	698
	61		100				
	64 ✓		125 ✓		3.13	3.09	869 ✓
	63		150				
	59		175		4.38	3.13	787
	49		200				
	42		225		5.63	3.17	553
			250				
			275				
			300				
			325				
			350				
			375				
		1	400				
			425				
			450				
			475				
			500				

WATER CONTENT (%)

W. W. in Cyl # 3 484 197

UNCONFINED COMPRESSIVE STRENGTH, q_u (lb./sq. ft.)

REMARKS AND CALCULATIONS (Use reverse side, if more space is needed)

Pen - 1.25
Color - Brown
Dish - 206
W. W. - 394
D. W. - 330

TECHNICIAN (Signature): R. Watts

COMPUTED BY (Signature):

CHECKED BY (Signature):

DD FORM 1 AUG 57 1213

GPO 931154