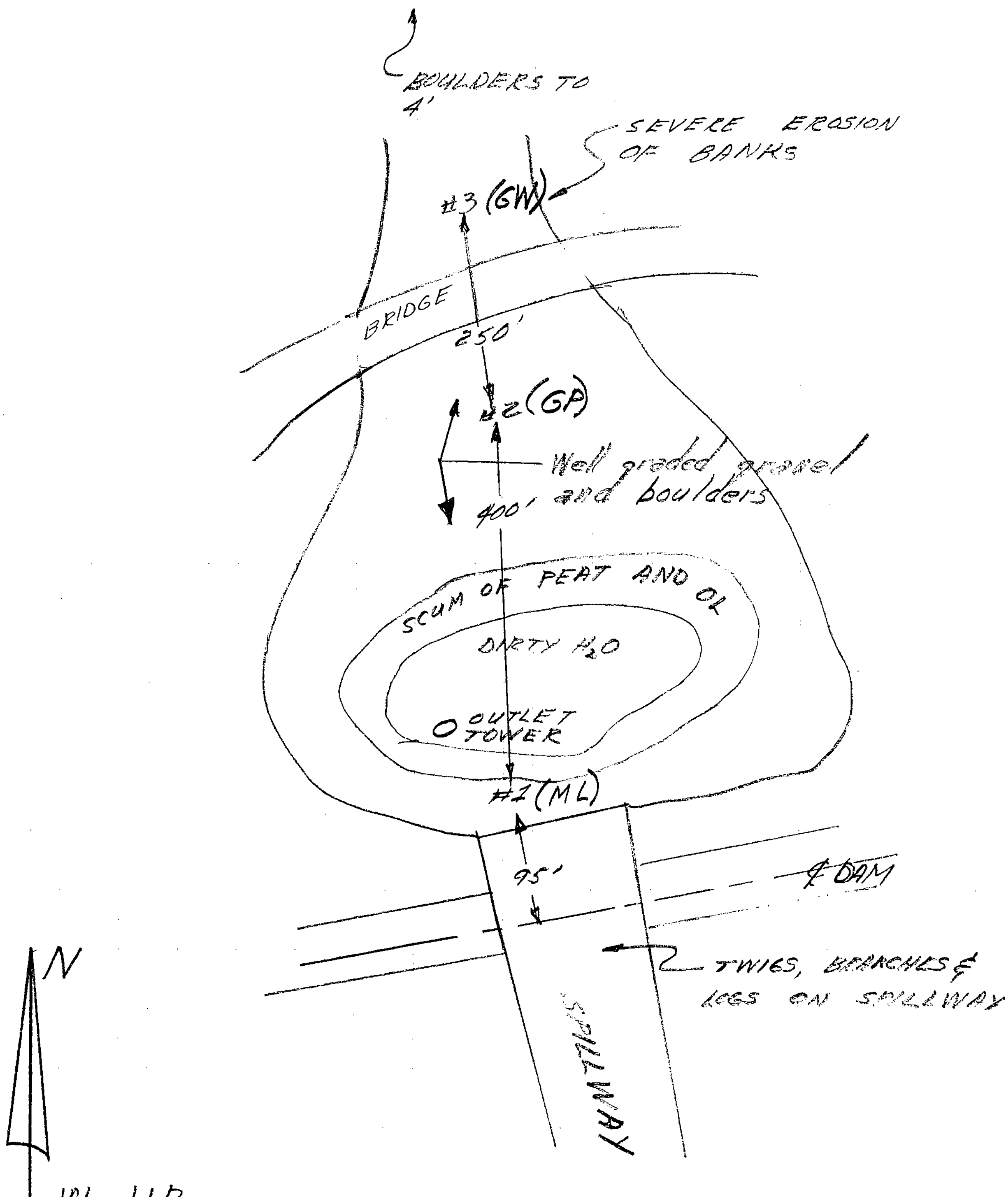
Rubio Debris Dam

2/25/69
from 2/13/69



JAL-JJB

(43)

ML

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22829 — Total Weight of Sample 1.80 lbs.

Project Rubio D.B. — grams.

Station — Moisture Content of Fines —%.

Location — Date Tested 2/14/69 Plotted By —

Boring No. — Sample No. — Remarks ND

Sampled By — Lab Tested By PK-NR — Intended Use —

GRAVEL (Plus No. 4)

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED LBS.	RETAINED GRAMS	% OF TOTAL OVEN-DRY RETAINED	ACCUM. % RETAINED	ACCUM. % PASSING ACTUAL	ACCUM. % PASSING SPEC. REQ.
3"	76.2						
1½"	38.1						
(1")	(25.4)						
3/4"	19.1						
3/8"	9.52						
No. 4	4.76			—	—	100.0	
Pan	0	1.80		xxxxx			
Total Fractions		1.80		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.34		100.0			
Total Oven-Dry		1.34		100.00			

Moisture Determination of Fines:

Cup No. 1

Dry Weight 148.5 grams

Moisture 34.2 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 74.5 grams.

WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 74.5 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING ACTUAL	ACCUM. % PASSING SPEC. REQ.
8	2.38	0.7	0.9	0.9		
16	1.19	0.4	0.5	1.4		
30	0.59	0.4	0.5	1.9		
50	.297	1.3	~~2.6~~ 1.7	~~3.9~~ 3.6		
100	.149	9.2	12.3	~~16.2~~ 15.9		
200	.074	13.2	17.7	34.2	65.2	
Pan	0	0.4	0.5			
Total Fractions		25.6				
Total Dry Weight After Wet Sieving 147.3		25.9	34.8			
Sieve Loss-Gain 121.4		0.3				

147.3
121.4

Calculated by [illegible] Date 2/17/69

Checked by RJT Date 2/24/69

Note: Cross out sieve numbers not used.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

GP

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22830 — Total Weight of Sample 2.25 lbs. ____ grams.
Project RUBIO D.B. — Moisture Content of Fines ____ %.
Station ____ — Date Tested 2/14/69 Plotted By ____
Location ____ — Remarks NP
Boring No. ____ Sample No. 2 — Intended Use ____
Sampled By ____ Lab Tested By AR

GRAVEL (Plus No. 4)

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED LBS.	RETAINED GRAMS	% OF TOTAL OVEN-DRY RETAINED	ACCUM. % RETAINED	ACCUM. % PASSING ACTUAL	ACCUM. % PASSING SPEC. REQ.
3"	76.2						
1½"	38.1						
(1")	(25.4)	0.33		14.9	14.9		
3/4"	19.1	0.11		5.0	19.9		
3/8"	9.52	0.43		19.4	39.3	45.5	
No. 4	4.76	0.34	1.21	15.3	54.6	~~45.5~~	
Pan	0	1.04		xxxxx			
Total Fractions		2.25		xxxxx			
Sieve Loss-Gain				~~45.4~~			
Calc. Oven-Dry Fines		1.01	45.5	~~45.5~~			
Total Oven-Dry		2.22		100.00			

Moisture Determination ~~45.4~~ of Fines:
Cup No. 15
Dry Weight 171.6 grams
Moisture 2.5 %

FINES (Minus No. 4)

WEIGHT, GRAMS 300 (CALC.) OVEN-DRY WEIGHT 292.7 grams.
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY ~~643.3~~ 644.7 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING ACTUAL	ACCUM. % PASSING SPEC. REQ.
8	2.38	79.45	~~12.3~~ ~~12.4~~ OK	67.0	~~66.9~~	
16	1.19	70.50	~~10.9~~ ~~11.0~~ OK	OK ~~78.0~~	~~77.8~~	
30	0.59	54.10	8.4	OK ~~86.4~~	~~86.2~~	
50	.297	52.90	8.2	OK ~~94.6~~	~~94.4~~	
100	.149	26.55	4.1	OK ~~98.7~~	~~98.5~~ .6	
200	.074	5.00	0.8	OK ~~99.4~~	~~99.3~~ 5.6	
Pan	0	0.05	.008		~~.7~~	
Total Fractions		288.55				
Total Dry Weight After Wet Sieving 410.0		288.50	OK ~~44.8~~			
Sieve Loss-Gain 121.5		+.05	~~44.7~~			

410.0 / 5

Calculated by AR Date 2/19/69
Checked by SHF Date 2/20/69

Note: Cross out sieve numbers not used.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Soils and Materials Engineering Division

MECHANICAL ANALYSIS

LAB. SERIAL NO. 22836

JOB Disbio D.B.

BORING NO. _____ SAMPLE NO. _____

STATION _____ DEPTH _____ FT.

LOCATION _____

SAMPLED BY _____ DATE _____

FIELD CLASSIFICATION _____ BY _____

PLAS. IND. _____ LIQ. LIM. _____

REMARKS _____

CLASSIFICATION DATA

PERCENT (+) NO. 200 _____ PERCENT (+) NO. 4 _____

%(+)NO.4/%(+)NO.200 _____ D_{10} .46 mm

D_{30} 2.0 mm D_{60} 9.5 mm

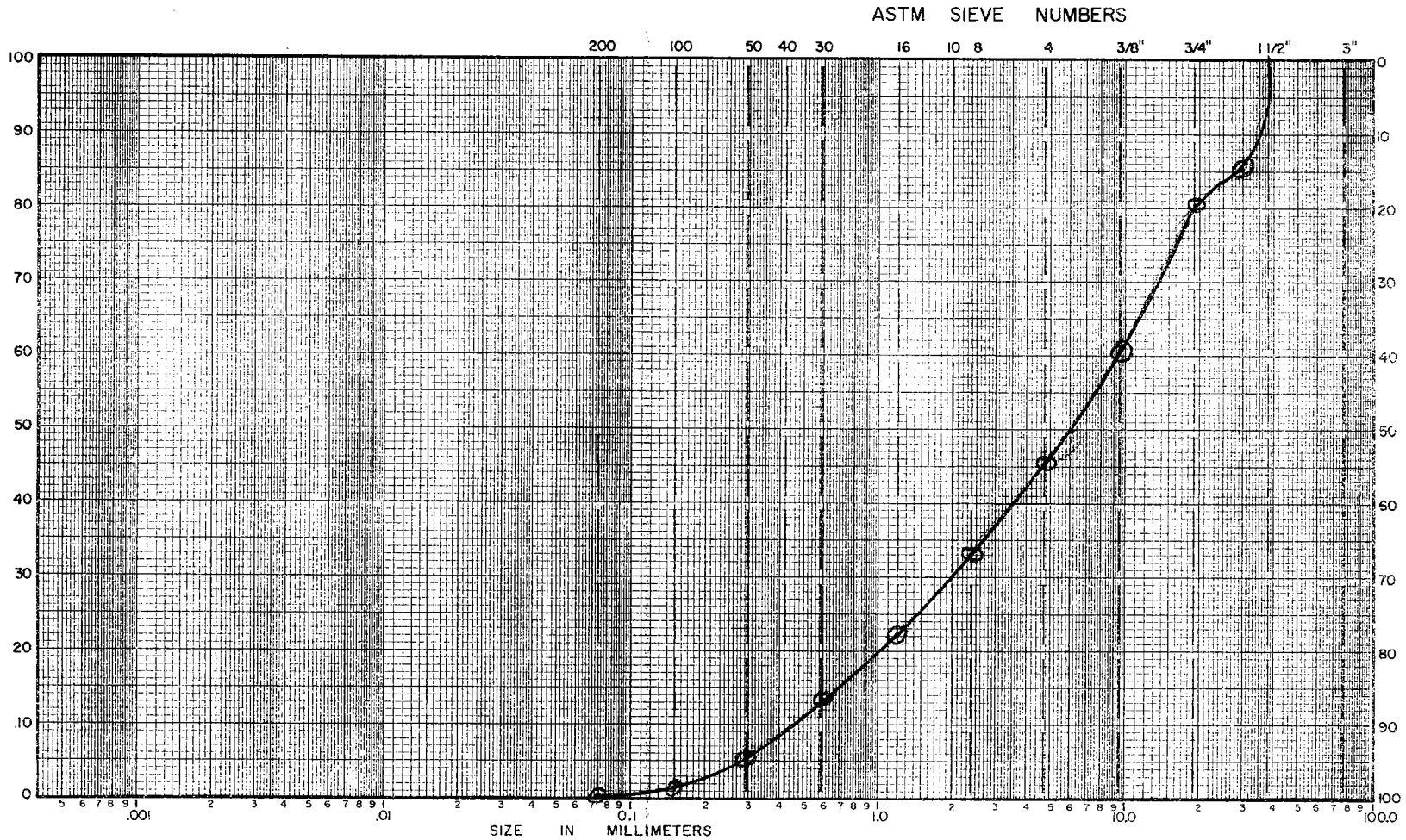
$Cu = D_{60}/D_{10}$ 20.7 PLOTTED BY NR

4.00 / 4.37

$Cc = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ 0.92 CHECKED BY [illegible]

GROUP SYMBOL _____ DATE _____

NOTE: D_X = PARTICLE DIA. AT X% PASSING



(43)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

GW

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22831
Project 24810 DB
Station 150' 45 BRIDGE
Location
Boring No. 3 Sample No.
Sampled By Lab Tested By R-FK

Total Weight of Sample lbs.
grams.
Moisture Content of Fines %.
Date Tested 2/14/69 Plotted By
Remarks NP
Intended Use

GRAVEL (Plus No. 4)

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED LBS.	RETAINED GRAMS	% OF TOTAL OVEN-DRY RETAINED	ACCUM. % RETAINED	ACCUM. % PASSING ACTUAL	ACCUM. % PASSING SPEC. REQ.
3"	76.2						
1½"	38.1						
(1")	(25.4)	0.09		3.7	3.7		
3/4"	19.1	—		—	3.7		
3/8"	9.52	0.45		18.4	22.1		
No. 4	4.76	0.77	431	31.4	53.5	46.5	
Pan	0	1.17		xxxxx			
Total Fractions		2.48		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.14		46.5			
Total Oven-Dry		2.45		100.00			

Moisture Determination of Fines:
Cup No. 32
Dry Weight 171.2 grams
Moisture 2.9 %

FINES (Minus No. 4)

WEIGHT, GRAMS 300 (CALC.) OVEN-DRY WEIGHT 291.5 grams.
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 626.9 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING ACTUAL	ACCUM. % PASSING SPEC. REQ.
8	2.38	97.80	15.6	69.1		
16	1.19	79.95	12.8	81.9		
30	0.59	48.25	7.7	89.6		
50	.297	32.60	5.2	94.8		
100	.149	20.75	3.3	98.1		
200	.074	6.60	1.1	99.1	0.9	
Pan	0	0.20	.03			
Total Fractions		286.15				
Total Dry Weight After Wet Sieving 407.80		286.00	45.6			
Sieve Loss-Gain 121.50		+ .15				

407.80 + 50

Calculated by NP Date 2/20/69
Checked by RJT Date 2/20/69

Note: Cross out sieve numbers not used.

#5 (43)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Foundation and Testing Division

HYDROMETER ANALYSIS WORK SHEET

ASTM Method D422-54T
(Modified)

LAB. SERIAL NO. 22831
Project
Limits
Boring Sample
Depth
Sampled by Date
Field Description

Initial Weight of Sample Passing No. 4 Sieve grams
Remarks
Set up by Date
Lab. Tested by Date

Moisture Cup No.
Dry Weight, grams
Moisture Content, %
Oven-Dry Weight Passing No. 4 grams
Percent Passing No. 4 ; No. 10 = P10
Oven-Dry Weight of total Sample represented, W = grams

Dispersing Agent: Type; Volume, cc; Strength, %; Correction, gm/l = C_d
Soil Specific Gravity = G
S. G. Correction factor = a
Meniscus correction, gm/l = C_m +1.3
Peroxide Treatment Used (Yes) (No)
HYDROMETER NO. JAR NO.

Time	11:48:30 STIR 11:49	11:50	11:53	12:05	12:53	4:05	8:49	
Temperature, °C								
Temp. correc. Factor = C_t								
Elapsed Time, Minutes = T	**1**	**4**	**16**	**64**	**256**	**1260**		
Hydrometer Reading, gm/l = R								
Effective Depth, cm = L								
Total Correction $C = C_d + C_m + C_t$								
Corrected Reading $R_c = R + C$								
K								
Diameter in mm = D								
Percent in Suspension = P								
Percent of (—10) = P'								

11:48:30 STIR
11:49

$$P = \frac{(R_c)\,(a)\,(100)}{(W)} \qquad P' = \frac{(P)\,(100)}{(P_{10})} \qquad D = K\sqrt{\frac{L}{T}}$$

Computed by Date
Plotted by Date
Checked by
Date

76H930— Cdb 9-63

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Soils and Materials Engineering Division

MECHANICAL ANALYSIS

LAB. SERIAL NO. 22831

JOB

BORING NO. SAMPLE NO.

STATION DEPTH FT.

LOCATION

SAMPLED BY DATE

FIELD CLASSIFICATION BY

PLAS. IND. LIQ. LIM.

REMARKS

CLASSIFICATION DATA

PERCENT (+) NO. 200 PERCENT (+) NO. 4

%(+)NO.4/%(+)NO. 200 D_{10} 0.59 mm

D_{30} 2.4 mm D_{60} 6.8 mm

$Cu = D_{60}/D_{10}$ 11.5 PLOTTED BY NR

$Cc = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ 1.4 CHECKED BY

5.76 / 4.01

GROUP SYMBOL DATE

NOTE: D_X = PARTICLE DIA. AT X % PASSING