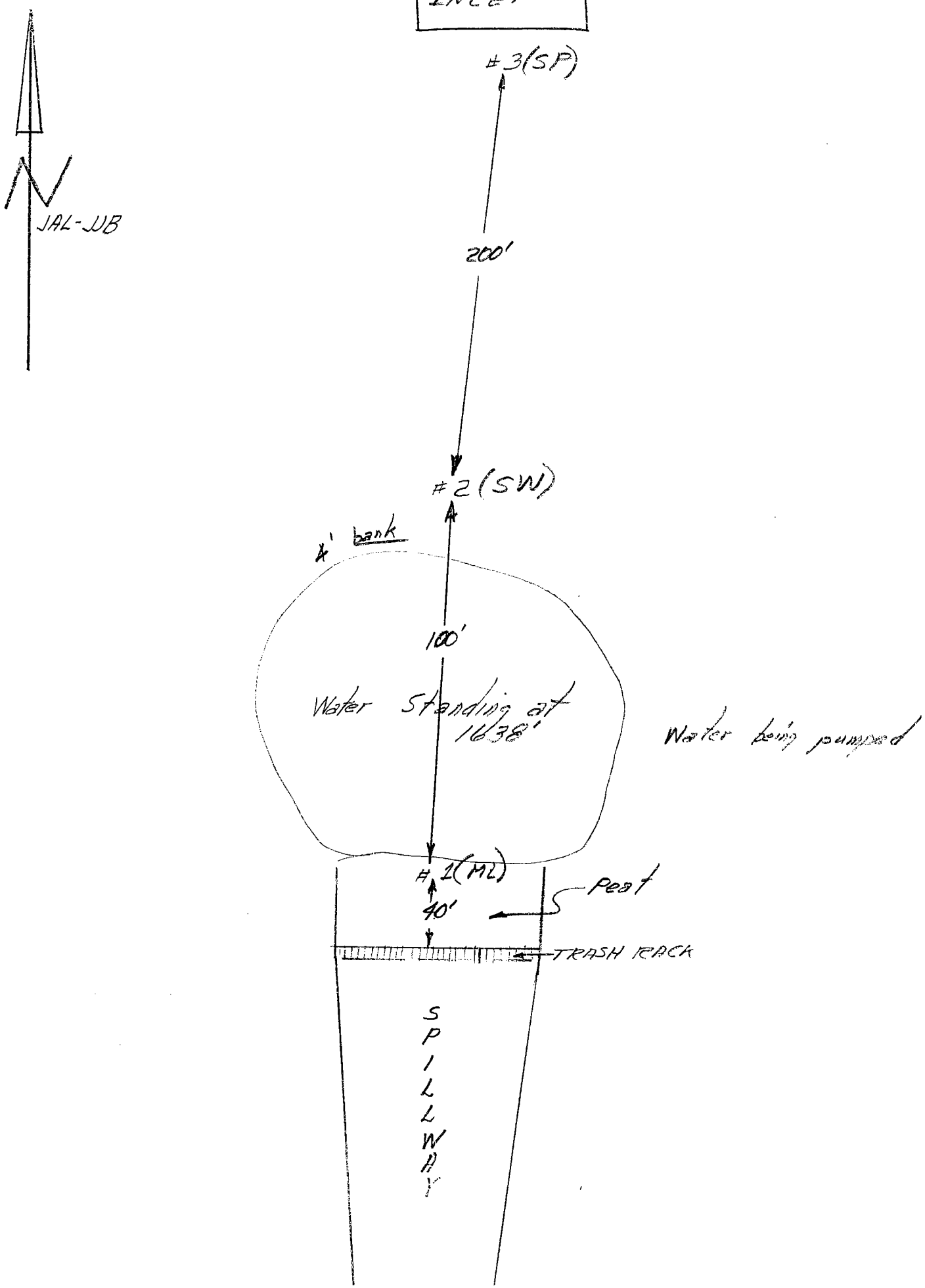
Hall's Canyon Debris Basin 3/3/69



not organic

ML (22)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22834 — Total Weight of Sample 1.15 lbs.

Project Hall Cyn. D.B. — grams.

Station — Moisture Content of Fines — %.

Location — Date Tested — Plotted By

Boring No. — Sample No. — Remarks NP

Sampled By — Lab Tested By — 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	1.15		xxxxx			
Total Fractions		1.15		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		.82		100.0			
Total Oven-Dry		.82		100.00			

Moisture Determination of Fines:
Cup No. 58
Dry Weight 145.1 grams
Moisture 40.6 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 — (CALC.) OVEN-DRY WEIGHT 71.1 grams.

WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 71.1 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	0.2	0.3	0.3		
16	1.19	0.3	0.4	0.7		
30	0.59	0.3	0.4	1.1		
50	.297	0.3	0.4	1.5		
100	.149	1.1	1.5	3.0		
200	.074	13.5	19.0	22.2	77.8	
Pan	0	0.1				
Total Fractions		15.8				
Total Dry Weight After Wet Sieving 136.0		15.8	22.2			
Sieve Loss-Gain 120.2						

136.0 − 120.2 = 15.8

Calculated by AR Date 3/3/69

Checked by SHF Date 3/3/69

Note: Cross out sieve numbers not used.

15.8

#3 (22)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Foundation and Testing Division

HYDROMETER ANALYSIS WORK SHEET

ASTM Method D422-54T
(Modified)

LAB. SERIAL NO. 22824
Project
Limits
Boring Sample
Depth
Sampled by Date
Field Description

Initial Weight of Sample Passing No. 4 Sieve grams
Remarks

Set up by NR Date
Lab. Tested by NR Date 2/27/69

Moisture Cup No. 58
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 = 71.1 grams

Dispersing Agent: Type: Calgon; Volume, cc: 125; Strength, %:
Correction, gm/l = C_d: -7.0
Soil Specific Gravity = G: 2.65
S. G. Correction factor = a: 1.0
Meniscus correction, gm/l = C_m: +1.3
Peroxide Treatment Used (Yes) (No)
HYDROMETER NO. JAR NO.

Time (11:37:30 STIR; 11:38 Start)	11:39	11:42	11:54	12:42	3:54	8:38	
Temperature, °C	20.1	20.1	19.9	19.8	19.8	20.0	
Temp. correc. Factor = C_t	0.0	0.0	0.0	0.0	0.0	0.0	
Elapsed Time, Minutes = T	1	4	16	64	256	1260	
Hydrometer Reading, gm/l = R	40.0	23.0	16.0	12.5	10.25	9.0	
Effective Depth, cm = $\sqrt{L}$	3.11	3.54	3.70	3.775	3.825	3.85	
Total Correction $C = C_d + C_m + C_t$	-5.7	-5.7	-5.7	-5.7	-5.7	-5.7	
Corrected Reading $R_c = R + C$	34.3	17.3	10.3	6.8	4.55	3.3	
K	.01365	→	→	→	→	→	
Diameter in mm = D	.0425	.0242	.0126	.00644	.00326	.00148	
Percent in Suspension = P	48.2	24.3	14.5	9.6	6.4	4.6	
Percent of (—10) = P'							

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

Computed by NR Date 3/3/69
Plotted by Date
Checked by
Date

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Soils and Materials Engineering Division

MECHANICAL ANALYSIS

LAB. SERIAL NO. 22834

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} _____ mm

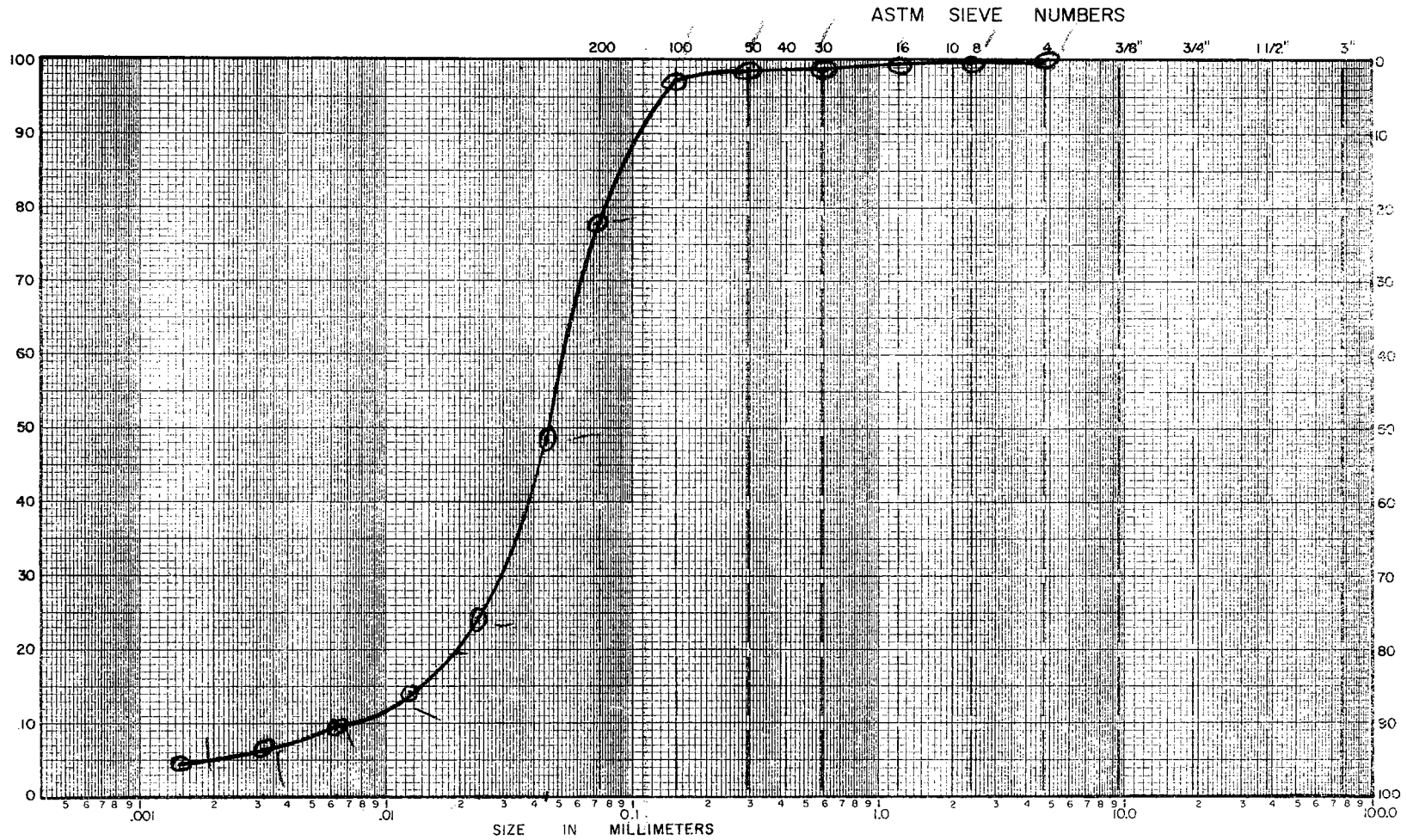
D_{30} _____ mm D_{60} _____ mm

$Cu = D_{60}/D_{10}$ _____ PLOTTED BY R

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

GROUP SYMBOL _____ DATE 3/2/62

NOTE: D_X = PARTICLE DIA. AT X% PASSING



22

(22)

SW

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22835 — Total Weight of Sample 2.21 lbs.
Project Hall Cyn. D.B. — grams.
Station — Moisture Content of Fines — %.
Location — Date Tested 2/17/69 Plotted By —
Boring No. — Sample No. 2 — Remarks NON PLASTIC
Sampled By — Lab Tested By AR — 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)	1.05		2.3	2.3		
3/4"	19.1	0.31		14.4	16.7		
3/8"	9.52	0.06		2.8	19.5		
No. 4	4.76	0.10	.52	4.6	24.1	75.9	
Pan	0	1.69		xxxxx			
Total Fractions		2.21		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.64		75.9			
Total Oven-Dry		2.16		100.00			

Moisture Determination of Fines:
Cup No. 20
Dry Weight 171.3 grams
Moisture 2.8 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 — (CALC.) OVEN-DRY WEIGHT 97.3 grams.
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 128.2 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	11.00	8.6	32.7		
16	1.19	22.80	17.8	50.5		
30	0.59	25.40	19.8	70.3		
50	.297	21.05	16.4	86.7		
100	.149	11.60	9.0	95.7		
200	.074	3.25	2.5	98.3	1.7	
Pan	0	0.00	—			
Total Fractions		95.1				
Total Dry Weight After Wet Sieving 216.6		95.1	74.2			
Sieve Loss-Gain 121.5		0.0				

216.6
121.5

Calculated by [illegible] Date 2/18
Checked by RTT Date 2/19/69

Note: Cross out sieve numbers not used.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Soils and Materials Engineering Division

MECHANICAL ANALYSIS

LAB. SERIAL NO. 22835

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 < 50 D_{10} 0.24 mm

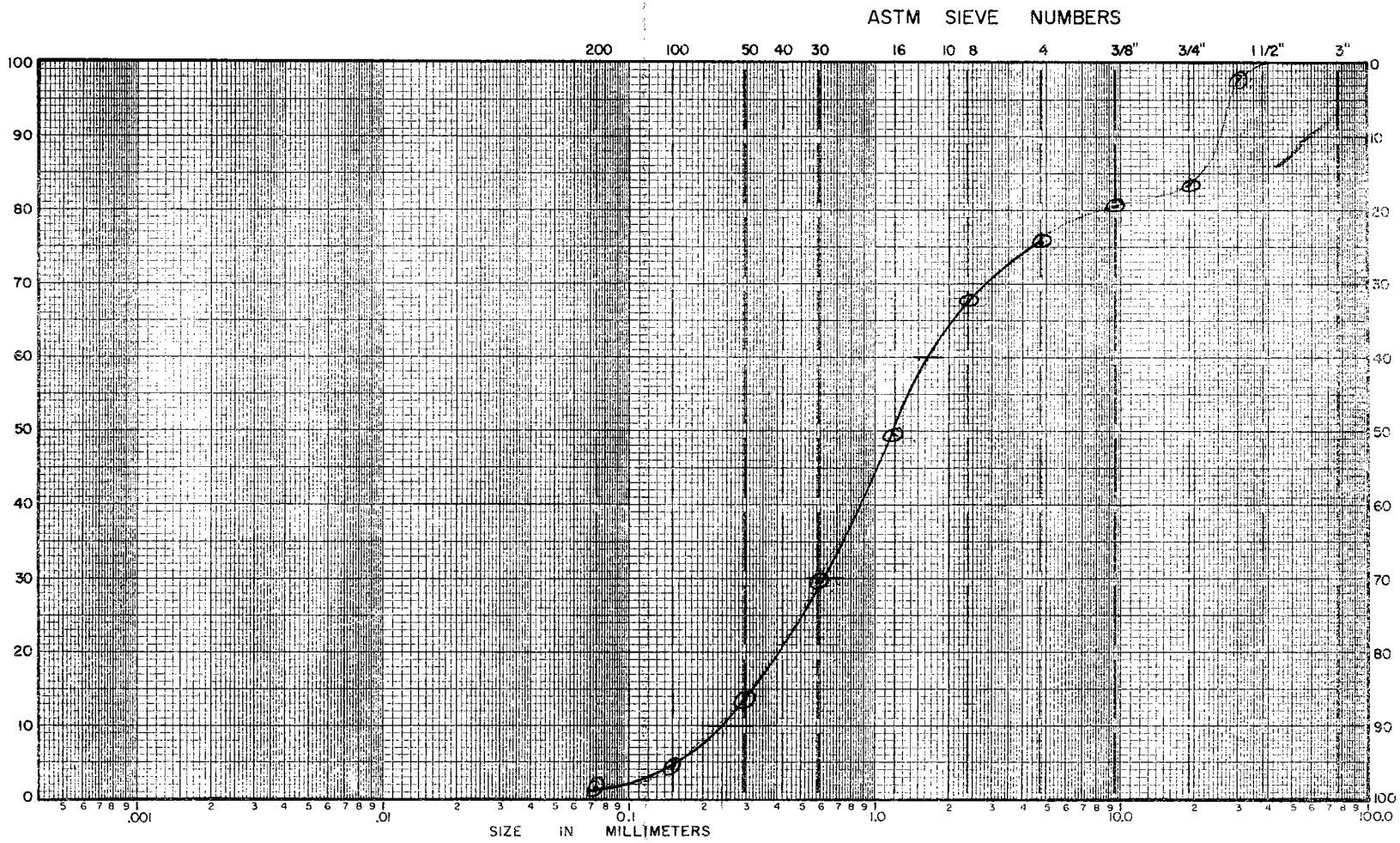
D_{30} 0.62 mm D_{60} 1.6 mm

$Cu = D_{60}/D_{10}$ 6.67 PLOTTED BY MR

$Cc = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ 1.001 CHECKED BY _____

GROUP SYMBOL _____ DATE _____

NOTE: D_X = PARTICLE DIA. AT X % PASSING



SP 4 (22)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22826 — Total Weight of Sample _____ lbs.
Project Hall Cyn. D.B _____ grams.
Station _____ Moisture Content of Fines _____ %.
Location _____ Date Tested 2/17/69 Plotted By _____
Boring No. _____ Sample No. _____ Remarks NP
Sampled By _____ Lab Tested By 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)	0.08		3.4	3.4		
3/4"	19.1	0.02		0.9	4.3		
3/8"	9.52	0.18		7.7	12.0		
No. 4	4.76	0.15	0.43	6.4	18.4	81.6	
Pan	0	1.96		xxxxx			
Total Fractions		2.39		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.91		81.6			
Total Oven-Dry		2.34		100.00			

Moisture Determination of Fines:
Cup No. 14
Dry Weight 171.4 grams
Moisture 2.7 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 97.4 grams.
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 119.4 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	11.25	9.4	27.8		
16	1.19	29.65	24.8	52.6		
30	0.59	30.75	25.8	78.4		
50	.297	15.45	12.9	91.3		
100	.149	5.70	4.8	96.1		
200	.074	1.70	1.4	97.7	2.3	
Pan	0	0.00	—			
Total Fractions		94.50				
Total Dry Weight After Wet Sieving 216.2		94.70	79.3			
Sieve Loss-Gain 121.5		−0.20				

216.2
121.5

Calculated by NR Date 2/18/69
Checked by RJT Date 2/19/69

Note: Cross out sieve numbers not used.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Soils and Materials Engineering Division

MECHANICAL ANALYSIS

LAB. SERIAL NO. 22826

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 <50 D_{10} .32 mm

D_{30} 0.78 mm D_{60} 1.6 1.4 mm

$Cu = D_{60}/D_{10}$ 4.38 5.0 PLOTTED BY NR

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

GROUP SYMBOL _____ DATE 2/[illegible]/69

NOTE: D_X = PARTICLE DIA. AT X % PASSING