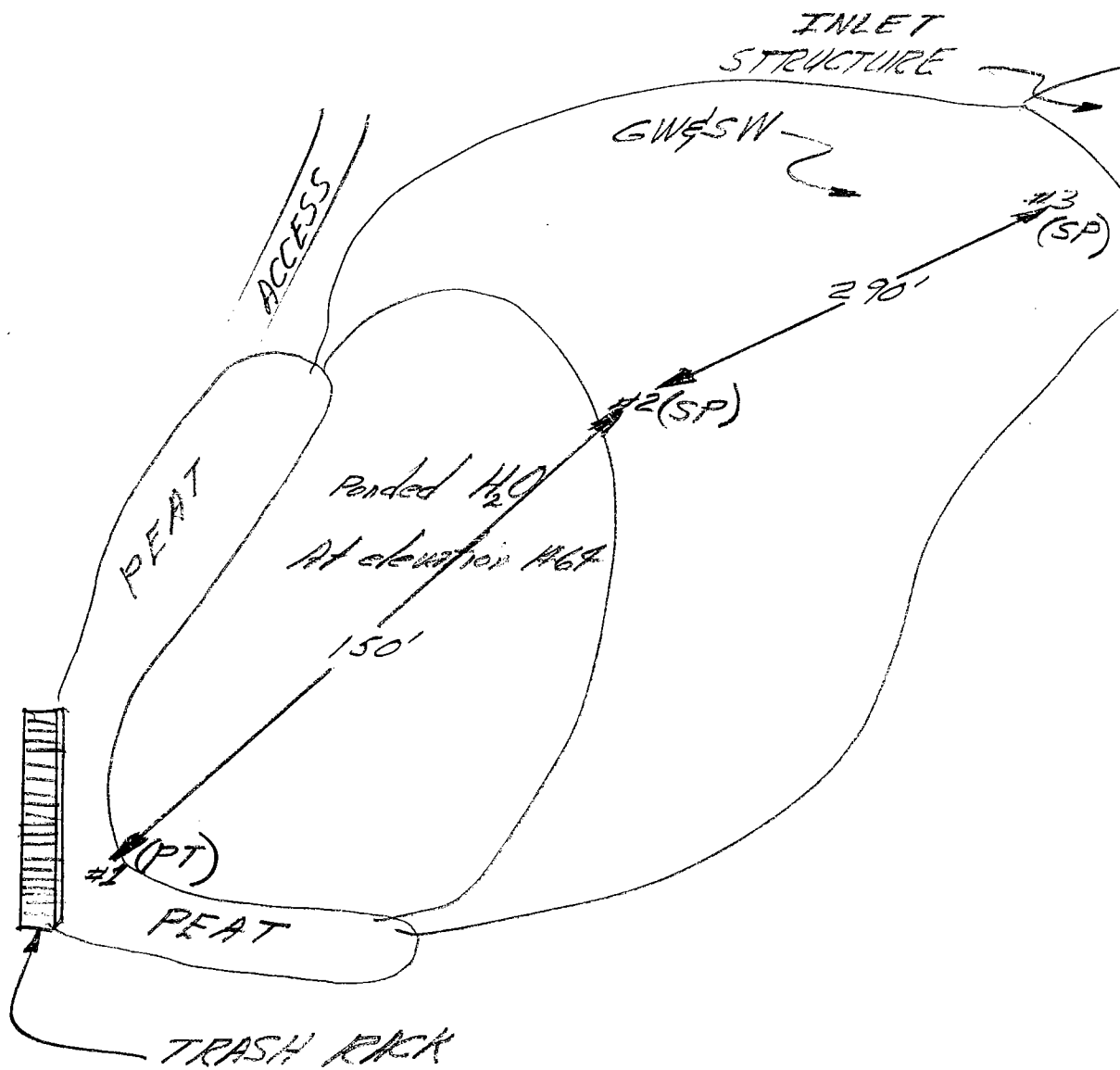
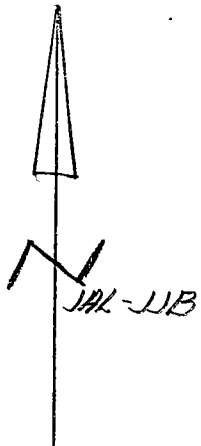


Fern Canyon Debris Basin

(18)

3/3/69 from 2/13/69



**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT**  
Soils and Materials Engineering Division

SP (10)

**SIEVE ANALYSIS WORK SHEET**

LAB SERIAL NO. 22818  
Project FERN CNY DB  
Station AT INLET STRUCTURE  
Location \_\_\_\_\_  
Boring No. 3 Sample No. \_\_\_\_\_  
Sampled By NB-JAL Lab Tested By R-FK

Total Weight of Sample 2.03 lbs.  
\_\_\_\_\_ grams.  
Moisture Content of Fines \_\_\_\_\_ %.  
Date Tested 2/14/68 Plotted By \_\_\_\_\_  
Remarks NP  
Intended Use \_\_\_\_\_

**GRAVEL (Plus No. 4)**

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED		% OF TOTAL OVEN-DRY RETAINED	ACCUM. % RETAINED	ACCUM. % PASSING	
		LBS.	GRAMS			ACTUAL	SPEC. REQ.
3"	76.2						
1½"	38.1						
(1")	(25.4)						
¾"	19.1						
3/8"	9.52	0.07		3.8	3.8		
No. 4	4.76	0.01	08	0.5	4.3	95.7	
Pan	0	1.95		xxxxx			
Total Fractions		2.03		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.78		95.7			
Total Oven-Dry		1.86		100.00			

Moisture Determination of Fines:  
Cup No. 11  
Dry Weight 165.2 grams  
Moisture 9.6 %

**FINES (Minus No. 4)**

WEIGHT, GRAMS 300 (CALC.) OVEN-DRY WEIGHT 273.7 grams.  
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 286.0 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	20.4	7.1	11.4		
16	1.19	68.5	24.0	35.4		
30	0.59	90.5	31.6	67.0		
50	.297	56.2	19.7	86.7		
100	.149	22.5	7.9	94.6		
200	.074	5.7	2.0	96.7	3.3	
Pan	0	0.1				
Total Fractions		263.9				
Total Dry Weight After Wet Sieving		264.4	92.4			
Sieve Loss-Gain		- 0.5				

Calculated by R Date 2/17/69  
Checked by RFT Date 2/20/69

Note: Cross out sieve numbers not used.

385.8  
121.4  
264.4

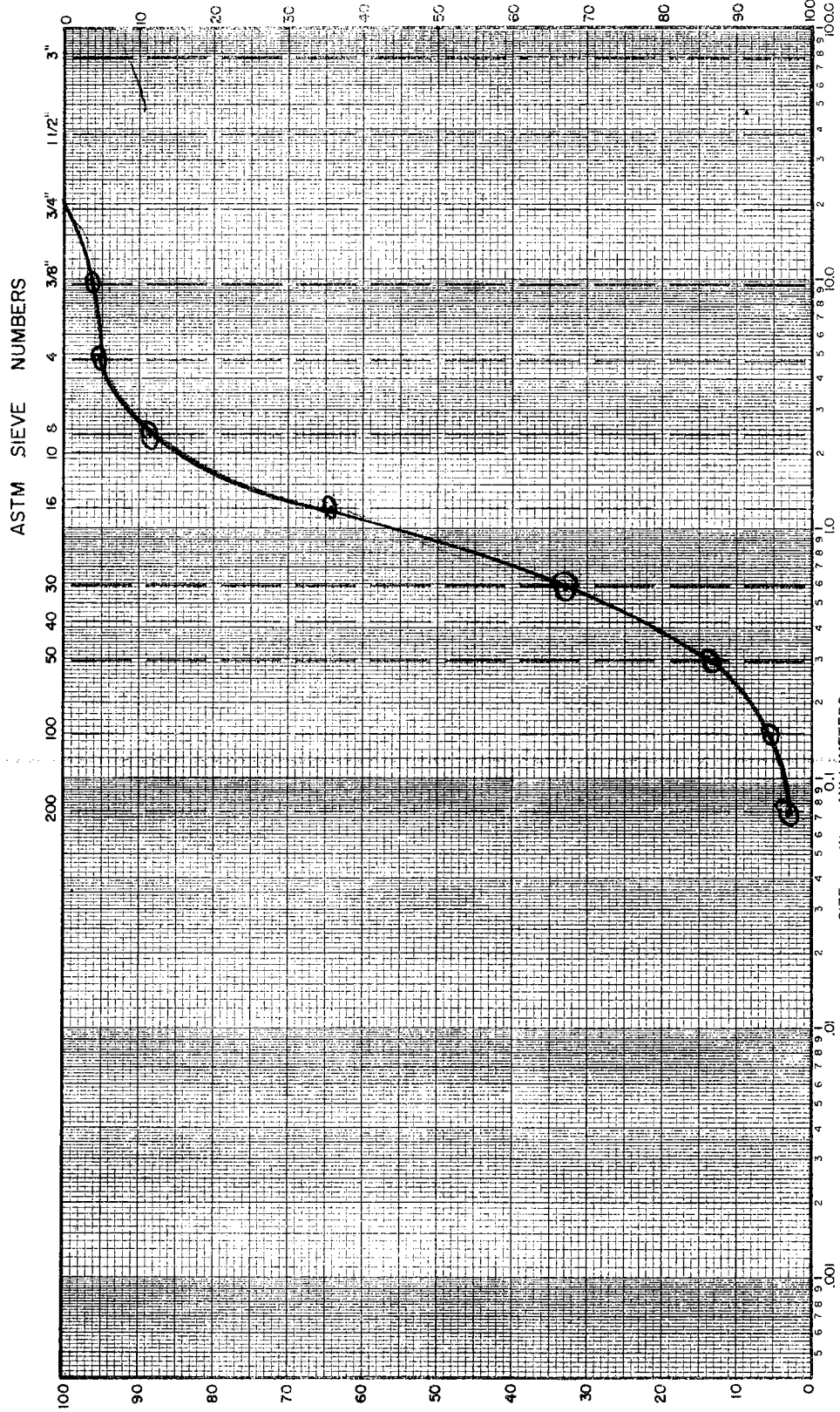
**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT**  
Soils and Materials Engineering Division  
**MECHANICAL ANALYSIS**

22818

LAB. SERIAL NO. \_\_\_\_\_  
 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<sub>10</sub> 0.24 mm  
 D<sub>30</sub> 0.55 mm D<sub>60</sub> 1.1 mm  
 C<sub>u</sub> = D<sub>60</sub>/D<sub>10</sub> 4.6 PLOTTED BY MR  
 C<sub>c</sub> = (D<sub>30</sub>)<sup>2</sup> / (D<sub>10</sub> x D<sub>60</sub>) \_\_\_\_\_ CHECKED BY \_\_\_\_\_  
 GROUP SYMBOL \_\_\_\_\_ DATE \_\_\_\_\_  
 NOTE: D<sub>x</sub> = PARTICLE DIA. AT X% PASSING



SILT OR CLAY	SAND MEDIUM	COARSE	FINE	GRAVEL COARSE
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**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT**  
Soils and Materials Engineering Division

SP (18)

**SIEVE ANALYSIS WORK SHEET**

LAB SERIAL NO. 22819  
Project FERN CYN D.B.  
Station \_\_\_\_\_  
Location 290' DS OF INLET  
Boring No. 2 Sample No. 2  
Sampled By WB-JAL Lab Tested By AR-FK

Total Weight of Sample 1.77 lbs.  
grams.  
Moisture Content of Fines \_\_\_\_\_ %  
Date Tested 2/14/69 Plotted By \_\_\_\_\_  
Remarks \_\_\_\_\_  
Intended Use \_\_\_\_\_

GRAVEL (Plus No. 4)

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED		% OF TOTAL OVEN-DRY RETAINED	ACCUM. % RETAINED	ACCUM. % PASSING	
		LBS.	GRAMS			ACTUAL	SPEC. REQ.
3"	76.2	—					
1½"	38.1	—					
(1")	(25.4)	—					
¾"	19.1	0.08		4.8	4.8		
⅜"	9.52	0.02		1.2	6.0		
No. 4	4.76	0.07	.17	4.2	10.2	89.8	
Pan	0	1.60		xxxxx			
Total Fractions		1.77		xxxxx			
Sieve Loss-Gain		—					
Calc. Oven-Dry Fines		1.50		89.8			
Total Oven-Dry		1.67		100.00			

Moisture Determination of Fines:  
Cup No. 61  
Dry Weight 167.7 grams  
Moisture 6.7 %

FINES (Minus No. 4)

WEIGHT, GRAMS 300 (CALC.) OVEN-DRY WEIGHT 281.2 grams.  
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 313.1 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	14.2	7.5	14.7		
16	1.19	54.4	17.4	32.1		
30	0.59	93.3	29.8	61.9		
50	.297	69.4	22.2	84.1		
100	.149	34.6	11.1	95.2		
200	.074	9.2	2.9	98.1	1.9	
Pan	0	0.2	—			
Total Fractions		275.3				
Total Dry Weight After Wet Sieving		275.3	87.9			
Sieve Loss-Gain						

Calculated by AR Date 2/24/69  
Checked by WHF Date 2/27/69

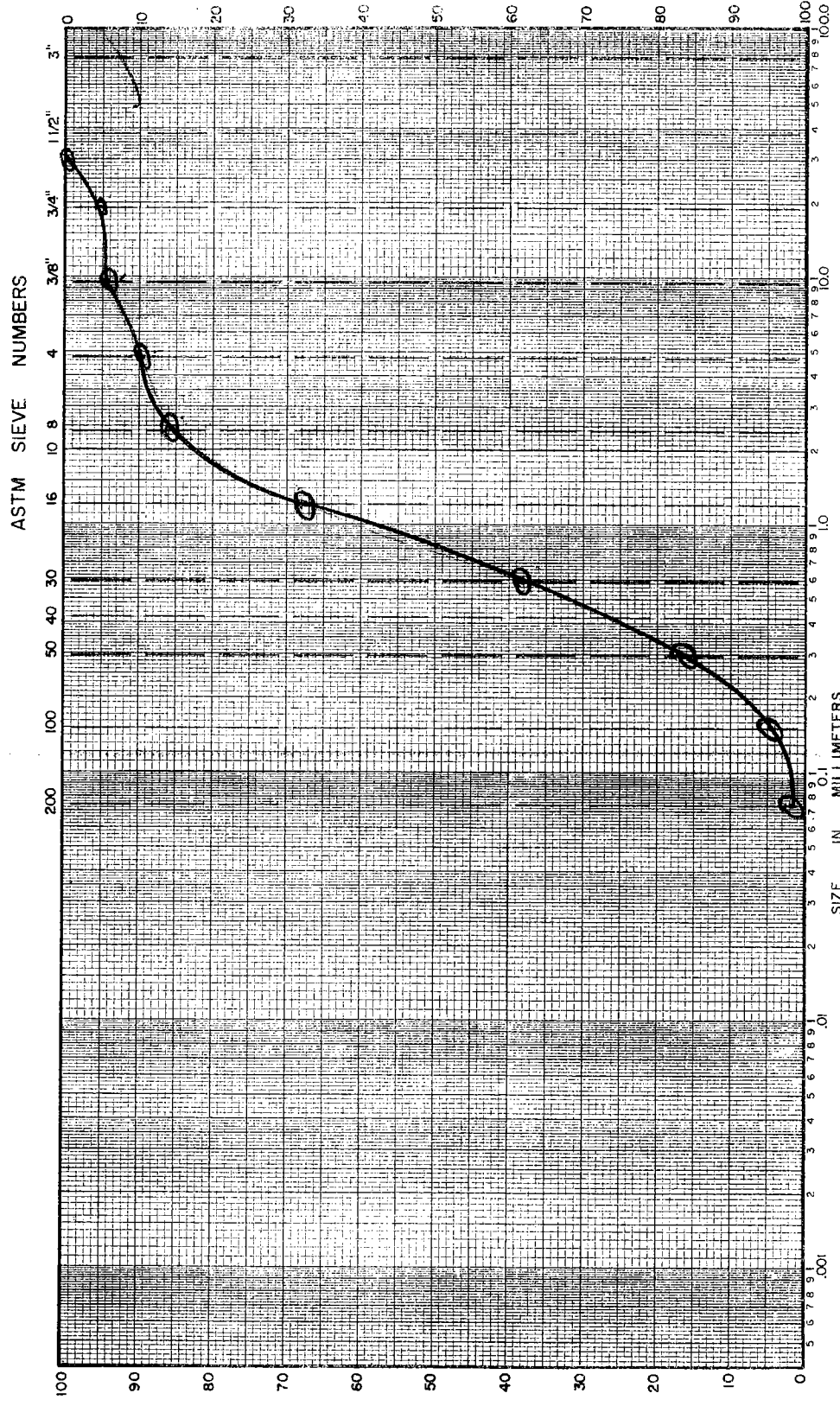
Note: Cross out sieve numbers not used.

**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT**  
Soils and Materials Engineering Division  
**MECHANICAL ANALYSIS**

LAB. SERIAL NO. 22819  
 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<sub>10</sub> 0.22 mm  
 D<sub>30</sub> \_\_\_\_\_ mm D<sub>60</sub> 1.05 mm  
 Cu = D<sub>60</sub>/D<sub>10</sub> \_\_\_\_\_ PLOTTED BY AK  
 Cc = (D<sub>30</sub>)<sup>2</sup> / (D<sub>10</sub> x D<sub>60</sub>) \_\_\_\_\_ CHECKED BY RII  
 GROUP SYMBOL \_\_\_\_\_ DATE 2/27/68  
 NOTE: D<sub>x</sub> = PARTICLE DIA. AT X% PASSING



SILT OR CLAY		SAND		GRAVEL	
FINE	MEDIUM	COARSE	FINE	COARSE	COARSE



**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT**  
Soils and Materials Engineering Division

24 (18)  
50.25  
142  
124 101

PT

**SIEVE ANALYSIS WORK SHEET**

LAB SERIAL NO. 22820  
Project FERN CYN OB  
Station \_\_\_\_\_  
Location AT TRASH RACK  
Boring No. 1 Sample No. \_\_\_\_\_  
Sampled By JVB-JAL Lab Tested By MR-FK

Total Weight of Sample \_\_\_\_\_ lbs.  
\_\_\_\_\_ grams.  
Moisture Content of Fines \_\_\_\_\_ %.  
Date Tested 2/14/69 Plotted By \_\_\_\_\_  
Remarks PT STICKS, WEEDS, & BRANCHES  
NON PLASTIC  
Intended Use \_\_\_\_\_

GRAVEL (Plus No. 4)

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED		% OF TOTAL OVEN-DRY RETAINED	ACCUM. % RETAINED	ACCUM. % PASSING	
		LBS.	GRAMS			ACTUAL	SPEC. REQ.
3"	76.2						
1 1/2"	38.1						
(1")	(25.4)						
3/4"	19.1						
3/8"	9.52						
No. 4	4.76	<u>.06</u>		<u>19.4</u>	<u>19.4</u> <u>47.1</u>	<u>80.6</u> <u>82.9</u>	
Pan	0	<u>.39</u>		xxxxx			
Total Fractions		<u>0.45</u>		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		<u>.35</u> <u>.27</u>		<u>80.6</u> <u>82.9</u>			
Total Oven-Dry		<u>.35</u> <u>.27</u>		100.00			

larger weeds  
smaller weeds

Moisture Determination of Fines:  
Cup No. 2  
Dry Weight 85.0 grams  
Moisture 56.0 %  
*wet = 25  
dry = 11  
- 25 grams  
14 water*

FINES (Minus No. 4)

WEIGHT, GRAMS 25 (CALC.) OVEN-DRY WEIGHT 16.0 grams.  
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 23.9 19.3 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38					
16	1.19					
30	0.59					
50	.297					
100	.149				<u>38.2</u>	<u>61.8</u>
200	.074				<u>70.4</u>	<u>59.6</u>
Pan	0					
Total Fractions						
Total Dry Weight After Wet Sieving		<u>125.9</u>	<u>4.5</u>	<u>18.8</u> <u>23.3</u>		
Sieve Loss-Gain		<u>121.4</u>				

125.9  
121.4

Calculated by HP Date 2/17/69  
Checked by RJT Date 2/24/69

Note: Cross out sieve numbers not used.