

Grain size distribution curve for a sample of 100% fines. The graph plots Percent Finer (0 to 100) against Grain Size in mm (200 to 0.001). The curve shows 100% fines passing through all sieve sizes from 6 in. down to #200, with a sharp drop to approximately 13% finer at the 0.075 mm sieve size.

Sieve Size (mm)	Percent Finer (%)
6 in.	100
3 in.	100
2 in.	100
1-1/2 in.	100
1 in.	100
3/4 in.	100
1/2 in.	100
3/8 in.	100
#4	100
#10	100
#20	100
#40	100
#60	100
#140	100
#200	100
0.85 mm	92
0.6 mm	91
0.425 mm	83
0.3 mm	83
0.25 mm	62
0.15 mm	13
0.075 mm	13
0.06 mm	13

[illegible]

MATERIAL DESCRIPTION		USCS	AASHTO
• SEDIMENT			
Project No.: 16622-08 Project: USACE-CORPUS CHRISTI • Location: CC-RA-00-02A Date: 03/27/00		Remarks: Figure No. _____	
GRAIN SIZE DISTRIBUTION TEST REPORT ANACON, INC.			

Date: 03/27/00
Project No.: 16622-08
Project: USACE-CORPUS CHRISTI

Sample Data

Location of Sample: CC-RA-00-02A
Sample Description: SEDIMENT
USCS Class: Liquid limit:
AASHTO Class: Plasticity index:

Notes

Remarks:

Fig. No.:

Mechanical Analysis Data

Initial

Dry sample and tare= 24.37
Tare = 0.00
Dry sample weight = 24.37
Sieve tare method

Sieve	Weight retained	Sieve tare	Percent finer
# 4	0.00	0.00	100.0
# 10	0.00	0.00	100.0
# 20	0.00	0.00	100.0
# 40	0.05	0.00	99.8
# 60	0.03	0.00	99.7
# 70	0.03	0.00	99.5
# 100	0.04	0.00	99.4
# 140	0.00	0.00	99.4
# 200	0.29	0.00	98.2

Hydrometer Analysis Data

Separation sieve is number 10
Percent # 10 based on complete sample= 100.0
Weight of hydrometer sample: 24.37
Calculated biased weight= 24.37
Automatic temperature correction
Composite correction at 20 deg C = -2.5

Meniscus correction only= 1
Specific gravity of solids= 2.63
Specific gravity correction factor= 1.005

Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Percent finer
2.0	25.5	23.0	22.0	0.0128	24.0	12.4	0.0319	90.5
4.0	25.5	23.0	22.0	0.0128	24.0	12.4	0.0226	90.5
30.0	25.5	21.0	20.0	0.0128	22.0	12.7	0.0084	82.3
60.0	25.5	21.0	20.0	0.0128	22.0	12.7	0.0059	82.3
120.0	25.5	16.0	15.0	0.0128	17.0	13.5	0.0043	61.6
240.0	25.5	4.0	3.0	0.0128	5.0	15.5	0.0033	12.2
1440.0	25.5	4.0	3.0	0.0128	5.0	15.5	0.0013	12.2

 Fractional Components

Gravel/Sand based on #4 sieve

Sand/Fines based on #200 sieve

% + 3 in. = 0.0 % GRAVEL = 0.0 % SAND = 1.8

% SILT = 20.3 % CLAY = 77.9

D85= 0.01 D60= 0.004 D50= 0.004

D30= 0.0037 D15= 0.00336

WATER QUALITY DATA

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Project: **Corpus Christi Ship Channel - Rincon Canal**EHA Job #: **DO 0028**Date(s) Collected: 03/23/2000Tide, MLT: HighWind Direction: SSEWind Speed: 20-25 mph, gustyWeather and Water Conditions: Cloudy, rough, white caps, waves 2-3'

Sample Number	CC-R-00-GS130*	CC-R-00-03B	CC-R-00-GS145*	CC-R-00-GS150*	CC-RA-00-01A	CC-RA-00-01B	CC-RA-00-02	CC-RA-00-02A	
Station	130+00	140+00	145+00	150+00	10+00	30+00	50+00	68+00	
Distance From C _L (Ft.)	25' SW	25' NE	25' NE	0	0	0	0	0	
Water Depth MLT (Ft.)	6	6	12	15	12	14.5	14	14	
DO (mg/L)	7.13	6.95	6.88	6.68	6.74	6.40	5.85	6.26	
pH	8.1	8.07	8.08	8.08	8.08	8.11	8.1	8.02	
Salinity (‰)	33.41	33.32	33.09	33.16	33.26	33.49	33.65	33.38	
Water Temp. (°C)	22.46	22.53	22.13	22.23	22.1	22.04	22.09	20.96	
Air Temp. (°C)	73	73	73	73	73	72	72	72	
Lat	27 50 12.3	27 50 25.15	27 50 27.52	27 50 30.09	27 50 27.24	27 50 09.45	27 49 51.23	27 49 39.3	
Long	97 22 27.5	97 22 38.71	97 22 40.64	97 22 43.31	97 22 54.82	97 23 07.53	97 23 15.72	97 23 28.7	
Time	1300	1230	1200	1150	1109	1056	1030	1007	

REMARKS: *Sediment for Grain-Size analysis only.