

JET PROBE LOG

PROJECT: ESTERO JET PROBES

JET PROBE: EST-JP-22

COORDINATES:

N = 604720

E = 738812

DATE: 5/10/00

START TIME: 1715

END TIME: 1720

WATER DEPTH: 30.0'

TOP DIVER: CK

BOTTOM DIVER: TT

| NOTES | ELEV. | DEPTH | SYMBOL | DESCRIPTION |
|---|-------|-------|--------|---|
| LENGTH OF PVC PIPE: 20' PENETRATION DEPTH: 5.0' JET PUMP TYPE: Briggs and Stratton 3.0 hp GAL/HR: 8460 DIAMETER OF PIPE: 1.5" | -30 | 0 | | SEA FLOOR |
| SUPPORT VESSEL: CPE II POSITIONING: DIFFERENTIAL GPS USCG BEACON NAVIGATION SYSTEM: "HYPACK" | -35 | 1 | | SILTY SAND, fine shell hash, dark gray |
| | -36 | 2 | | |
| | | 3 | | |
| | | 4 | | |
| | | 5 | | ROCK |
| WEATHER: WIND: DIR: S-SE SPEED: 5-10 KT WAVES: DIR: NE HEIGHT: 1-2 ft CURRENT: DIR: NA SPEED: 1-2 KT | | 6 | | |
| | | 7 | | |
| | | 8 | | |
| | | 9 | | |
| | | 10 | | |
| | | 11 | | |
| | | 12 | | |
| | | 13 | | |
| | | 14 | | |
| | | 15 | | |
| | | 16 | | |
| | | 17 | | |
| | | 18 | | |
| | | 19 | | |
| | | 20 | | |
| TURBIDITY: TOP (0' - 2.5'): HIGH BOTTOM: (2.5' - 5.0'): HIGH | | 21 | | |
| DRAWN BY: TT CHECKED BY: COMM.NO: 8410.02 | | 22 | | SAND SAMPLES SURFACE: 0.17mm, 11.0% silt MID: 0.45mm, 14.0% silt BOTTOM: 0.61mm, 5.9% silt |
| | | 23 | | |
| | | 24 | | |

GRADATION ANALYSIS REPORT
ESTERO JET PROBES 2000
TESTED BY: ID ON: 5/00

SAMPLE NO.: JP#22 TOP
SAMPLE ELEV. (FT. NGVD): 0.0
SAMPLE DEPTH (FT.): 0.0
SAMPLE TYPE: SURFACE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 99.99
SAMPLE WEIGHT AFTER WASH (GRAMS): 91.08

| SIEVE SIZE | PHI SIZE | MESH SIZE (mm) | RETAINED (GRAMS) | RETAINED (%) | PASSED (%) |
|---------------|-------------|-------------------|---------------------|-----------------|---------------|
| 5/8 | -4.00 | 16.000 | 0.00 | 0.00 | 100.00 |
| 5/16 | -3.00 | 8.000 | 0.00 | 0.00 | 100.00 |
| 5 | -2.00 | 4.000 | 0.16 | 0.16 | 99.84 |
| 7 | -1.50 | 2.800 | 0.57 | 0.57 | 99.43 |
| 10 | -1.00 | 2.000 | 1.85 | 1.85 | 98.15 |
| 14 | -0.50 | 1.400 | 3.32 | 3.32 | 96.68 |
| 18 | 0.00 | 1.000 | 4.67 | 4.67 | 95.33 |
| 25 | 0.50 | 0.710 | 6.69 | 6.69 | 93.31 |
| 35 | 1.00 | 0.500 | 10.00 | 10.00 | 90.00 |
| 45 | 1.50 | 0.355 | 15.40 | 15.40 | 84.60 |
| 60 | 2.00 | 0.250 | 25.08 | 25.08 | 74.92 |
| 80 | 2.50 | 0.180 | 36.36 | 36.36 | 63.64 |
| 120 | 3.00 | 0.125 | 48.52 | 48.52 | 51.48 |
| 170 | 3.50 | 0.090 | 78.82 | 78.83 | 21.17 |
| 200 | 3.75 | 0.075 | 88.97 | 88.98 | 11.02 |
| 230 | 4.00 | 0.063 | 95.24 | 95.25 | 4.75 |
| PAN | | | 99.99 | 100.00 | 0.00 |

PHI(5): 0.08 PHI(16): 1.53 PHI(25): 2.00
PHI(50): 3.02 PHI(75): 3.44 PHI(84): 3.63
PHI(95): 3.99

SIEVE LOSS(g): 0.00 SILT/CLAY: 11.02%
SKEWNESS: -0.943 KURTOSIS: 1.111

GRAPHIC METHOD

MEAN (PHI): 2.45 SORTING: 1.05
MEAN (mm): 0.18 MEDIAN (mm): 0.12
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.53 SORTING: 1.18
MEAN (mm): 0.17

DATA FILE NAME: JP#22 TOP.TAB

GRADATION ANALYSIS REPORT
ESTERO JET PROBES 2000
TESTED BY: ID ON: 5/00

SAMPLE NO.: JP#22 MID
SAMPLE ELEV. (FT. NGVD): 0.0
SAMPLE DEPTH (FT.): 0.0
SAMPLE TYPE: SURFACE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 100.79
SAMPLE WEIGHT AFTER WASH (GRAMS): 89.59

| SIEVE SIZE | PHI SIZE | MESH SIZE (mm) | RETAINED (GRAMS) | RETAINED (%) | PASSED (%) |
|---------------|-------------|-------------------|---------------------|-----------------|---------------|
| 5/8 | -4.00 | 16.000 | 0.00 | 0.00 | 100.00 |
| 5/16 | -3.00 | 8.000 | 1.19 | 1.18 | 98.82 |
| 5 | -2.00 | 4.000 | 9.83 | 9.75 | 90.25 |
| 7 | -1.50 | 2.800 | 15.17 | 15.05 | 84.95 |
| 10 | -1.00 | 2.000 | 19.79 | 19.63 | 80.37 |
| 14 | -0.50 | 1.400 | 24.46 | 24.27 | 75.73 |
| 18 | 0.00 | 1.000 | 28.52 | 28.30 | 71.70 |
| 25 | 0.50 | 0.710 | 34.50 | 34.23 | 65.77 |
| 35 | 1.00 | 0.500 | 40.91 | 40.59 | 59.41 |
| 45 | 1.50 | 0.355 | 47.02 | 46.65 | 53.35 |
| 60 | 2.00 | 0.250 | 55.80 | 55.36 | 44.64 |
| 80 | 2.50 | 0.180 | 62.54 | 62.05 | 37.95 |
| 120 | 3.00 | 0.125 | 67.70 | 67.17 | 32.83 |
| 170 | 3.50 | 0.090 | 79.60 | 78.98 | 21.02 |
| 200 | 3.75 | 0.075 | 86.71 | 86.03 | 13.97 |
| 230 | 4.00 | 0.063 | 94.61 | 93.87 | 6.13 |
| PAN | | | 100.77 | 99.98 | 0.02 |

PHI(5): -2.55 PHI(16): -1.40 PHI(25): -0.41
PHI(50): 1.69 PHI(75): 3.33 PHI(84): 3.68
PHI(95): 4.04

SIEVE LOSS(g): 0.02 SILT/CLAY: 13.97%
SKEWNESS: -0.375 KURTOSIS: 0.722

GRAPHIC METHOD

MEAN (PHI): 1.09 SORTING: 2.54
MEAN (mm): 0.47 MEDIAN (mm): 0.31
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.14 SORTING: 2.11
MEAN (mm): 0.45

DATA FILE NAME: JP#22 MID.TAB

GRADATION ANALYSIS REPORT
ESTERO JET PROBES 2000
TESTED BY: ID ON: 5/00

SAMPLE NO.: JP#22 BOTT
SAMPLE ELEV. (FT. NGVD): 0.0
SAMPLE DEPTH (FT.): 0.0
SAMPLE TYPE: SURFACE SAMPLE

USCS DESCRIPTION: SW-SM

DRY SAMPLE WEIGHT (GRAMS): 99.84
SAMPLE WEIGHT AFTER WASH (GRAMS): 94.37

| SIEVE SIZE | PHI SIZE | MESH SIZE (mm) | RETAINED (GRAMS) | RETAINED (%) | PASSED (%) |
|---------------|-------------|-------------------|---------------------|-----------------|---------------|
| | | 16.000 | 0.00 | 0.00 | 100.00 |
| 5/8 | -4.00 | 8.000 | 0.22 | 0.22 | 99.78 |
| 5/16 | -3.00 | 4.000 | 2.88 | 2.88 | 97.12 |
| 5 | -2.00 | 2.800 | 8.11 | 8.12 | 91.88 |
| 7 | -1.50 | 2.000 | 13.87 | 13.89 | 86.11 |
| 10 | -1.00 | 1.400 | 20.97 | 21.00 | 79.00 |
| 14 | -0.50 | 1.000 | 29.51 | 29.56 | 70.44 |
| 18 | 0.00 | 0.710 | 42.69 | 42.76 | 57.24 |
| 25 | 0.50 | 0.500 | 56.71 | 56.80 | 43.20 |
| 35 | 1.00 | 0.355 | 67.69 | 67.80 | 32.20 |
| 45 | 1.50 | 0.250 | 78.72 | 78.85 | 21.15 |
| 60 | 2.00 | 0.180 | 85.68 | 85.82 | 14.18 |
| 80 | 2.50 | 0.125 | 88.28 | 88.42 | 11.58 |
| 120 | 3.00 | 0.090 | 91.73 | 91.88 | 8.12 |
| 170 | 3.50 | 0.075 | 93.91 | 94.06 | 5.94 |
| 200 | 3.75 | 0.063 | 97.05 | 97.20 | 2.80 |
| 230 | 4.00 | | 99.84 | 100.00 | 0.00 |
| PAN | | | | | |

PHI(5): -1.80 PHI(16): -0.85 PHI(25): -0.27
PHI(50): 0.76 PHI(75): 1.83 PHI(84): 2.37
PHI(95): 3.82

SIEVE LOSS(g): 0.00
SKEWNESS: 0.159

SILT/CLAY: 5.94%
KURTOSIS: 1.101

GRAPHIC METHOD
MEAN (PHI): 0.86
MEAN (mm): 0.55

SORTING: 1.61
MEDIAN (mm): 0.59

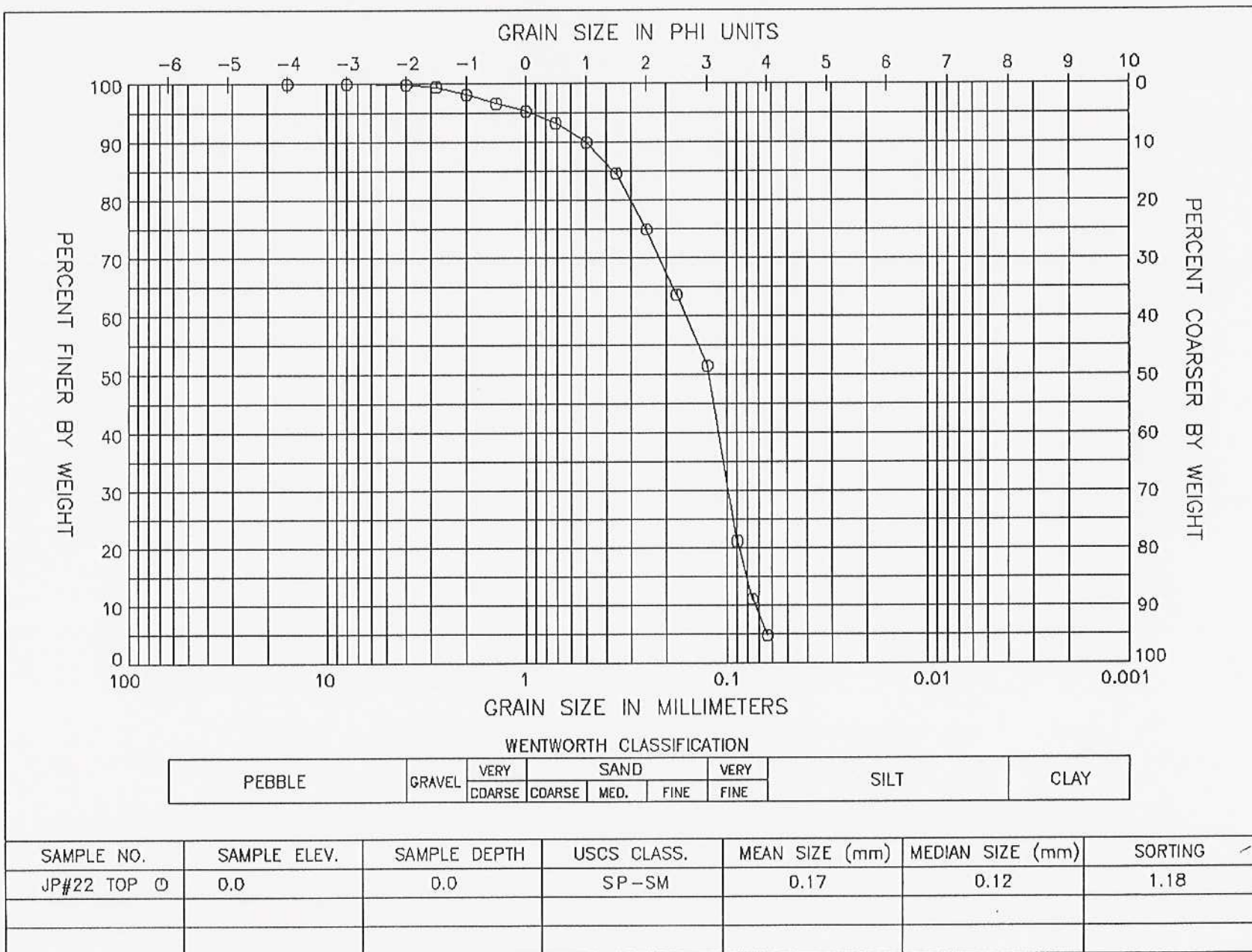
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD
MEAN (PHI): 0.72
MEAN (mm): 0.61

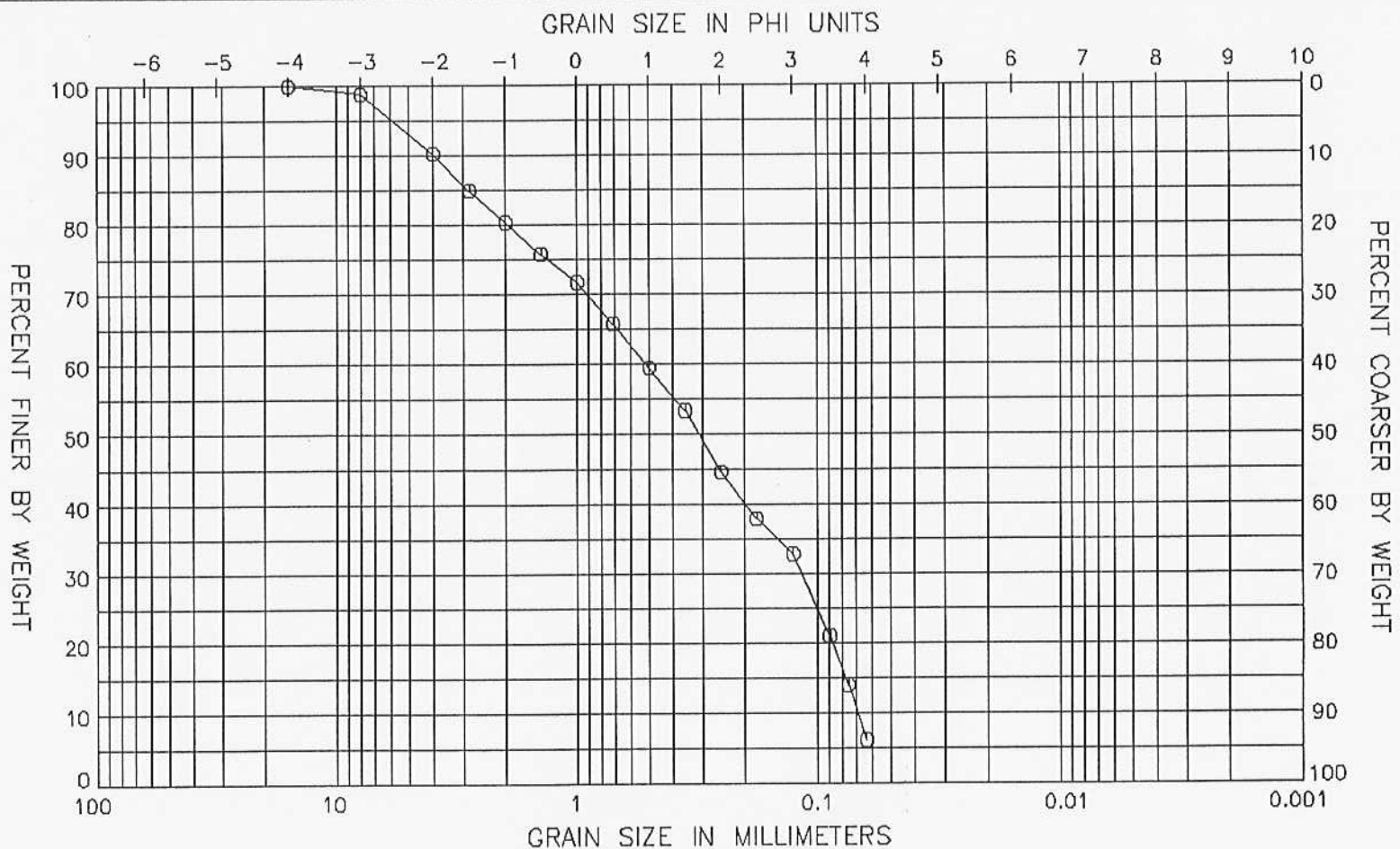
SORTING: 1.52

DATA FILE NAME: JP#22 BOTT.TAB

GRAIN SIZE DISTRIBUTION CURVE ESTERO JET PROBES 2000



GRAIN SIZE DISTRIBUTION CURVE ESTERO JET PROBES 2000

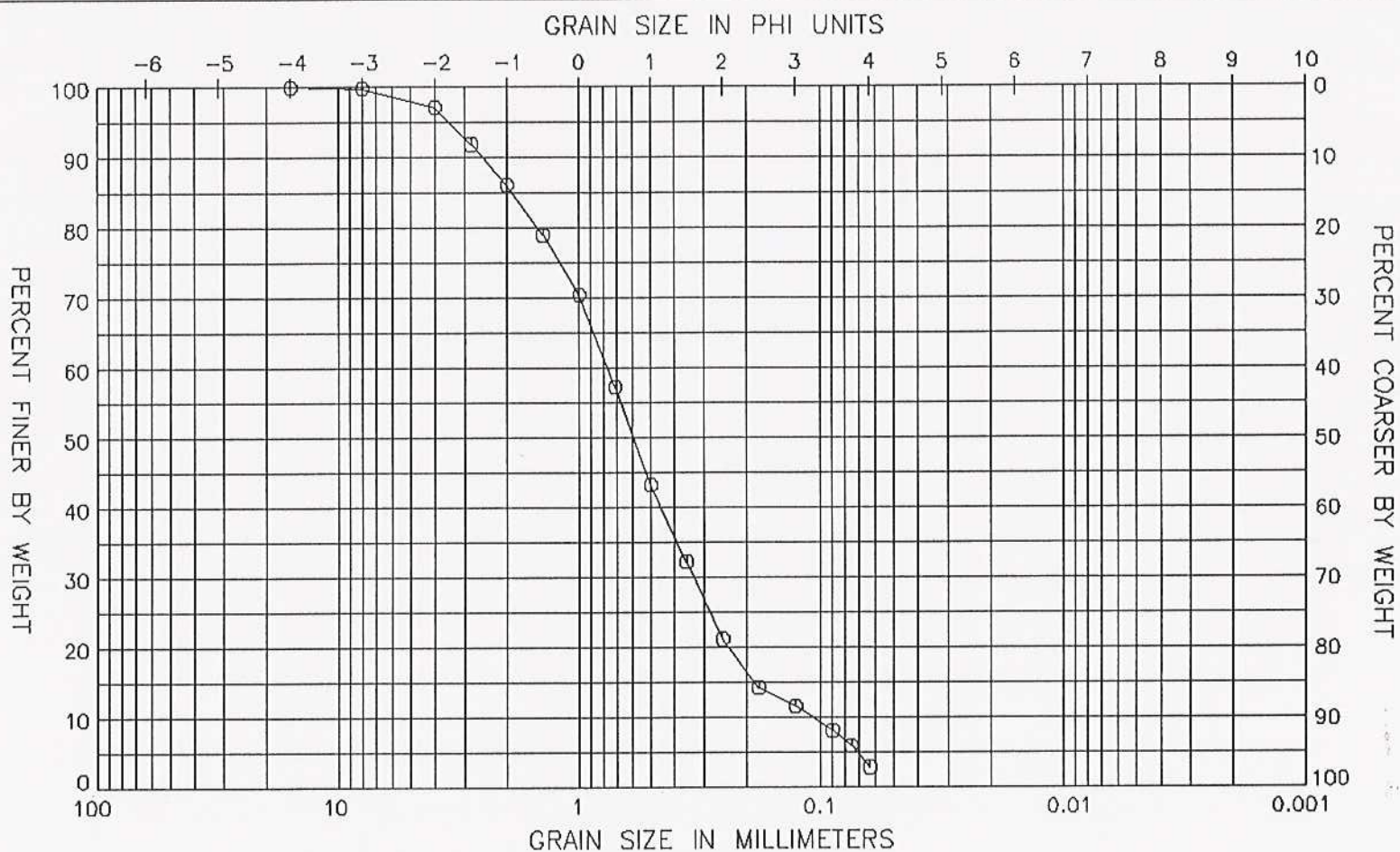


WENTWORTH CLASSIFICATION

| | | | | | | | | |
|--------|--------|--------|--------|------|------|------|------|------|
| PEBBLE | GRAVEL | VERY | SAND | | | VERY | SILT | CLAY |
| | | COARSE | COARSE | MED. | FINE | FINE | | |

| SAMPLE NO. | SAMPLE ELEV. | SAMPLE DEPTH | USCS CLASS. | MEAN SIZE (mm) | MEDIAN SIZE (mm) | SORTING |
|-------------|--------------|--------------|-------------|----------------|------------------|---------|
| JP#22 MID ① | 0.0 | 0.0 | SP-SM | 0.45 | 0.31 | 2.11 |
| | | | | | | |
| | | | | | | |

GRAIN SIZE DISTRIBUTION CURVE ESTERO JET PROBES 2000



WENTWORTH CLASSIFICATION

| | | | | | | | | |
|--------|--------|--------|--------|------|------|------|------|------|
| PEBBLE | GRAVEL | VERY | SAND | | | VERY | SILT | CLAY |
| | | COARSE | COARSE | MED. | FINE | FINE | | |

| SAMPLE NO. | SAMPLE ELEV. | SAMPLE DEPTH | USCS CLASS. | MEAN SIZE (mm) | MEDIAN SIZE (mm) | SORTING |
|--------------|--------------|--------------|-------------|----------------|------------------|---------|
| JP#22 BOTT Ø | 0.0 | 0.0 | SW-SM | 0.61 | 0.59 | 1.52 |
| | | | | | | |
| | | | | | | |