

JET PROBE LOG

PROJECT: ESTERO JET PROBES

JET PROBE: EST-JP-3

COORDINATES:

N = 666180.10

E = 767500.22

DATE: 5/9/00

START TIME: 1252

END TIME: 1258

WATER DEPTH: 15.0'

TOP DIVER: CK

BOTTOM DIVER: JA

| NOTES | ELEV. | DEPTH | SYMBOL | DESCRIPTION |
|---|-------|-------|--------|--------------------------------------|
| LENGTH OF PVC PIPE: 20' PENETRATION DEPTH: 9.0' JET PUMP TYPE: Briggs and Stratton 3.0 hp GAL/HR: 8460 DIAMETER OF PIPE: 1.5" | -15 | 0 | | SEA FLOOR |
| SUPPORT VESSEL: CPE II POSITIONING: DIFFERENTIAL GPS USCG BEACON NAVIGATION SYSTEM: "HYPACK" | | 1 | | |
| | | 2 | | |
| | | 3 | | |
| | | 4 | | |
| | | 5 | | SAND, fine grained, shell hash, gray |
| | | 6 | | |
| | | 7 | | |
| | | 8 | | |
| WEATHER: WIND: DIR: S SPEED: 5-10 KT. | -24 | 9 | | |
| WAVES: DIR: S HIEGHT: 1-2 ft | -25 | 10 | | ROCK |
| | | 11 | | |
| | | 12 | | |
| | | 13 | | |
| | | 14 | | |
| | | 15 | | |
| | | 16 | | |
| | | 17 | | |
| | | 18 | | |
| | | 19 | | |
| | | 20 | | |
| | | 21 | | SAND SAMPLES |
| TURBIDITY: TOP (0' - 5'): MOD BOTTOM: (5' - 9'): MOD | | 22 | | SURFACE: 0.33mm, 5.7% silt |
| | | 23 | | MID: 0.56mm, 6.5% silt |
| DRAWN BY: TT COMM.NO: 8410.02 | | 24 | | BOTTOM: 0.29mm, 4.5% silt |

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

SAMPLE NO.: JP#3 TOP
SAMPLE ELEV. (FT. NGVD): 0.0
SAMPLE DEPTH (FT.): 0.0
SAMPLE TYPE: SURFACE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 100.15
SAMPLE WEIGHT AFTER WASH (GRAMS): 94.59

| 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 | 0.00 | 0.00 | 100.00 |
| 5 | -2.00 | 4.000 | 0.49 | 0.49 | 99.51 |
| 7 | -1.50 | 2.800 | 2.13 | 2.13 | 97.87 |
| 10 | -1.00 | 2.000 | 4.87 | 4.86 | 95.14 |
| 14 | -0.50 | 1.400 | 9.44 | 9.43 | 90.57 |
| 18 | 0.00 | 1.000 | 14.55 | 14.53 | 85.47 |
| 25 | 0.50 | 0.710 | 21.17 | 21.14 | 78.86 |
| 35 | 1.00 | 0.500 | 29.22 | 29.18 | 70.82 |
| 45 | 1.50 | 0.355 | 38.32 | 38.26 | 61.74 |
| 60 | 2.00 | 0.250 | 51.39 | 51.31 | 48.69 |
| 80 | 2.50 | 0.180 | 62.46 | 62.37 | 37.63 |
| 120 | 3.00 | 0.125 | 87.87 | 87.74 | 12.26 |
| 170 | 3.50 | 0.090 | 93.82 | 93.68 | 6.32 |
| 200 | 3.75 | 0.075 | 94.47 | 94.33 | 5.67 |
| 230 | 4.00 | 0.063 | 97.33 | 97.18 | 2.82 |
| PAN | | | 100.15 | 100.00 | 0.00 |

PHI(5): -0.98 PHI(16): 0.11 PHI(25): 0.74
PHI(50): 1.95 PHI(75): 2.75 PHI(84): 2.93
PHI(95): 3.81

SIEVE LOSS(g): 0.00 SILT/CLAY: 5.67%
SKEWNESS: -0.382 KURTOSIS: 0.978

GRAPHIC METHOD

MEAN (PHI): 1.56 SORTING: 1.41
MEAN (mm): 0.34 MEDIAN (mm): 0.26
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.62 SORTING: 1.37
MEAN (mm): 0.33

DATA FILE NAME: JP#3 TOP.TAB

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

SAMPLE NO.: JP#3 MID
SAMPLE ELEV. (FT. NGVD): 0.0
SAMPLE DEPTH (FT.): 0.0
SAMPLE TYPE: SURFACE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 100.02
SAMPLE WEIGHT AFTER WASH (GRAMS): 93.74

| 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 | 4.16 | 4.16 | 95.84 |
| 7 | -1.50 | 2.800 | 9.00 | 9.00 | 91.00 |
| 10 | -1.00 | 2.000 | 15.93 | 15.93 | 84.07 |
| 14 | -0.50 | 1.400 | 25.71 | 25.70 | 74.30 |
| 18 | 0.00 | 1.000 | 33.60 | 33.59 | 66.41 |
| 25 | 0.50 | 0.710 | 43.17 | 43.16 | 56.84 |
| 35 | 1.00 | 0.500 | 51.74 | 51.73 | 48.27 |
| 45 | 1.50 | 0.355 | 60.17 | 60.16 | 39.84 |
| 60 | 2.00 | 0.250 | 70.91 | 70.90 | 29.10 |
| 80 | 2.50 | 0.180 | 77.45 | 77.43 | 22.57 |
| 120 | 3.00 | 0.125 | 77.81 | 77.79 | 22.21 |
| 170 | 3.50 | 0.090 | 92.57 | 92.55 | 7.45 |
| 200 | 3.75 | 0.075 | 93.54 | 93.52 | 6.48 |
| 230 | 4.00 | 0.063 | 96.82 | 96.80 | 3.20 |
| PAN | | | 100.01 | 99.99 | 0.01 |

PHI(5): -1.91 PHI(16): -1.00 PHI(25): -0.54
PHI(50): 0.90 PHI(75): 2.31 PHI(84): 3.21
PHI(95): 3.86

SIEVE LOSS(g): 0.01 SILT/CLAY: 6.48%
SKEWNESS: 0.036 KURTOSIS: 0.831

GRAPHIC METHOD

MEAN (PHI): 1.01 SORTING: 2.10
MEAN (mm): 0.50 MEDIAN (mm): 0.54
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 0.84 SORTING: 1.74
MEAN (mm): 0.56

DATA FILE NAME: JP#3 MID.TAB

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

SAMPLE NO.: JP#3 BOTT
SAMPLE ELEV. (FT. NGVD): 0.0
SAMPLE DEPTH (FT.): 0.0
SAMPLE TYPE: SURFACE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.04
SAMPLE WEIGHT AFTER WASH (GRAMS): 95.85

| 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 | 1.29 | 1.29 | 98.71 |
| 7 | -1.50 | 2.800 | 3.81 | 3.81 | 96.19 |
| 10 | -1.00 | 2.000 | 6.89 | 6.89 | 93.11 |
| 14 | -0.50 | 1.400 | 11.24 | 11.24 | 88.76 |
| 18 | 0.00 | 1.000 | 15.63 | 15.62 | 84.38 |
| 25 | 0.50 | 0.710 | 20.72 | 20.71 | 79.29 |
| 35 | 1.00 | 0.500 | 26.35 | 26.34 | 73.66 |
| 45 | 1.50 | 0.355 | 33.70 | 33.69 | 66.31 |
| 60 | 2.00 | 0.250 | 45.33 | 45.31 | 54.69 |
| 80 | 2.50 | 0.180 | 52.74 | 52.72 | 47.28 |
| 120 | 3.00 | 0.125 | 77.86 | 77.83 | 22.17 |
| 170 | 3.50 | 0.090 | 93.04 | 93.00 | 7.00 |
| 200 | 3.75 | 0.075 | 95.54 | 95.50 | 4.50 |
| 230 | 4.00 | 0.063 | 97.93 | 97.89 | 2.11 |
| PAN | | | 100.03 | 99.99 | 0.01 |

PHI(5): -1.31 PHI(16): 0.04 PHI(25): 0.88
PHI(50): 2.32 PHI(75): 2.94 PHI(84): 3.20
PHI(95): 3.70

SIEVE LOSS(g): 0.01 SILT/CLAY: 4.50%
SKEWNESS: -0.707 KURTOSIS: 0.995

GRAPHIC METHOD

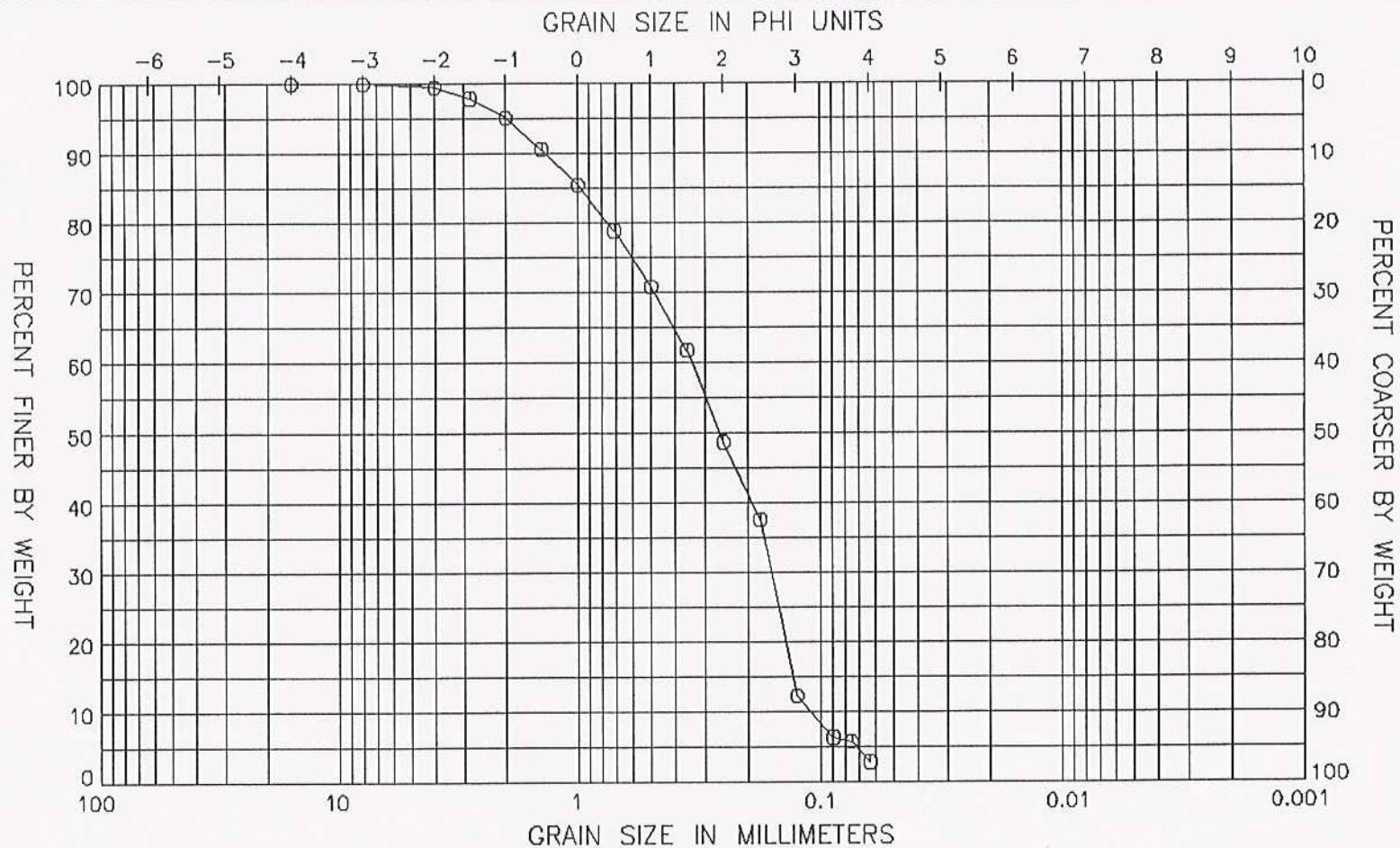
MEAN (PHI): 1.59 SORTING: 1.58
MEAN (mm): 0.33 MEDIAN (mm): 0.20
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.76 SORTING: 1.52
MEAN (mm): 0.29

DATA FILE NAME: JP#3 BOTT.TAB

GRAIN SIZE DISTRIBUTION CURVE ESTERO JET PROBES 2000

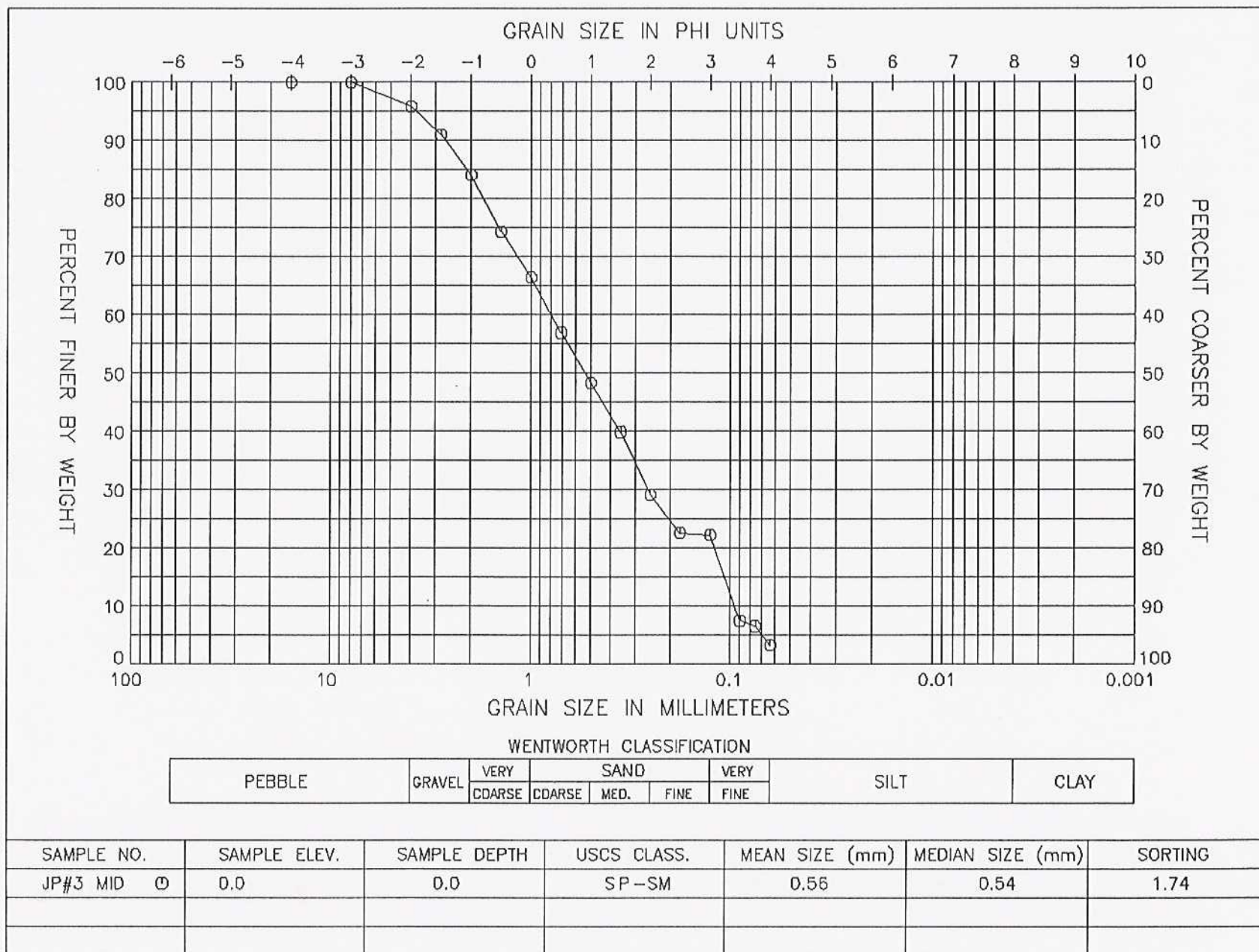


WENTWORTH CLASSIFICATION

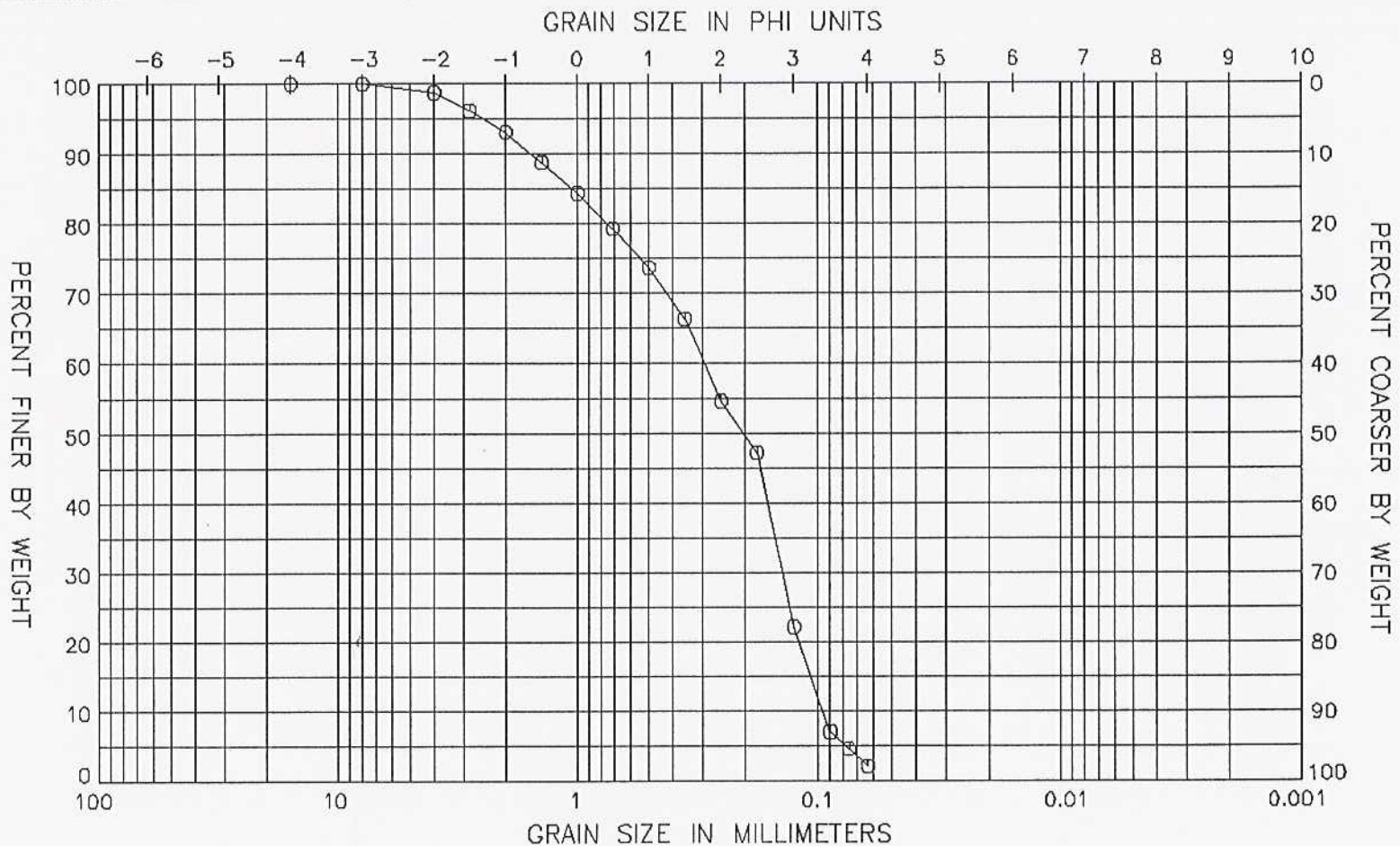
| | | | | | | | | |
|--------|--------|--------|--------|------|------|------|------|------|
| PEBBLE | GRAVEL | VERY | SAND | | | VERY | SILT | CLAY |
| | | COARSE | COARSE | MED. | FINE | FINE | | |

| SAMPLE NO. | SAMPLE ELEV. | SAMPLE DEPTH | USCS CLASS. | MEAN SIZE (mm) | MEDIAN SIZE (mm) | SORTING |
|------------|--------------|--------------|-------------|----------------|------------------|---------|
| JP#3 TOP ① | 0.0 | 0.0 | SP-SM | 0.33 | 0.26 | 1.37 |
| | | | | | | |
| | | | | | | |

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#3 BOTT ① | 0.0 | 0.0 | SP | 0.29 | 0.20 | 1.52 |
| | | | | | | |
| | | | | | | |