

# JET PROBE LOG

**PROJECT: ESTERO JET PROBES**

**JET PROBE: EST-JP-10**

**COORDINATES:**

N = 665096

E = 761466

**DATE: 5/9/00**

**START TIME: 1425**

**END TIME: 1430**

**WATER DEPTH: 10.5**

**TOP DIVER: CK**

**BOTTOM DIVER: JA**

NOTES	ELEV.	DEPTH	SYMBOL	DESCRIPTION
LENGTH OF PVC PIPE: 20' PENETRATION DEPTH: 13' JET PUMP TYPE: Briggs and Stratton 3.0 hp  GAL/HR: 8460 DIAMETER OF PIPE: 1.5"	-10.5	0		SEA FLOOR
SUPPORT VESSEL: CPE II  POSITIONING: DIFFERENTIAL GPS USCG BEACON  NAVIGATION SYSTEM: "HYPACK"		1		
		2		
		3		
		4		
		5		
		6		
WEATHER:  WIND: DIR: S SPEED: 10-15 KT.  WAVES: DIR: S HEIGHT: 3-4 ft  CURRENT: DIR: NONE SPEED: NONE		7		SAND, fine grained, some fine shell hash, gray
		8		
		9		
		10		
		11		
		12		
	-23.5	13		
	-24.5	14		RESISTANT SUBSTRATE
		15		
		16		
		17		
		18		
		19		
		20		
		21		SAND SAMPLES
TURBIDITY: TOP (0' - 6.5'): LOW BOTTOM: (7' - 13'): MOD		22		SURFACE: 0.10mm, 4.8% silt
		23		MID: 0.16mm, 3.8% silt
DRAWN BY: TT      CHECKED BY: COMM.NO: 8410.02		24		BOTTOM: 0.22mm, 5.3% silt

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

SAMPLE NO.: JP#10 TOP  
SAMPLE ELEV. (FT. NGVD): 0.0  
SAMPLE DEPTH (FT.): 0.0  
SAMPLE TYPE: SURFACE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 99.76  
SAMPLE WEIGHT AFTER WASH (GRAMS): 95.46

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	0.00	0.00	100.00
7	-1.50	2.800	0.07	0.07	99.93
10	-1.00	2.000	0.08	0.08	99.92
14	-0.50	1.400	0.09	0.09	99.91
18	0.00	1.000	0.11	0.11	99.89
25	0.50	0.710	0.17	0.17	99.83
35	1.00	0.500	0.25	0.25	99.75
45	1.50	0.355	0.39	0.39	99.61
60	2.00	0.250	0.51	0.51	99.49
80	2.50	0.180	0.58	0.58	99.42
120	3.00	0.125	4.22	4.23	95.77
170	3.50	0.090	89.94	90.16	9.84
200	3.75	0.075	94.99	95.22	4.78
230	4.00	0.063	97.57	97.80	2.20
PAN			99.74	99.98	0.02

PHI(5): 3.00            PHI(16): 3.07            PHI(25): 3.12  
PHI(50): 3.27           PHI(75): 3.41           PHI(84): 3.46  
PHI(95): 3.74

SIEVE LOSS(g): 0.02                            SILT/CLAY: 4.78%  
SKEWNESS: 0.533                                KURTOSIS: 1.035

GRAPHIC METHOD

MEAN (PHI): 3.31                                SORTING: 0.20  
MEAN (mm) : 0.10                                MEDIAN (mm): 0.10  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 3.25                                SORTING: 0.27  
MEAN (mm) : 0.10

DATA FILE NAME: JP#10 TOP.TAB

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

SAMPLE NO.: JP#10 MID  
SAMPLE ELEV. (FT. NGVD): 0.0  
SAMPLE DEPTH (FT.): 0.0  
SAMPLE TYPE: SURFACE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 96.91  
SAMPLE WEIGHT AFTER WASH (GRAMS): 93.98

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	0.00	0.00	100.00
7	-1.50	2.800	0.19	0.20	99.80
10	-1.00	2.000	0.41	0.42	99.58
14	-0.50	1.400	0.62	0.64	99.36
18	0.00	1.000	0.83	0.86	99.14
25	0.50	0.710	1.10	1.14	98.86
35	1.00	0.500	1.40	1.44	98.56
45	1.50	0.355	1.67	1.72	98.28
60	2.00	0.250	2.60	2.68	97.32
80	2.50	0.180	27.78	28.67	71.33
120	3.00	0.125	88.53	91.35	8.65
170	3.50	0.090	88.56	91.38	8.62
200	3.75	0.075	93.28	96.25	3.75
230	4.00	0.063	95.24	98.27	1.73
PAN			96.89	99.98	0.02

PHI(5): 2.04 PHI(16): 2.26 PHI(25): 2.43  
PHI(50): 2.67 PHI(75): 2.87 PHI(84): 2.94  
PHI(95): 3.69

SIEVE LOSS(g): 0.02 SILT/CLAY: 3.75%  
SKEWNESS: 0.569 KURTOSIS: 1.528

GRAPHIC METHOD

MEAN (PHI): 2.72 SORTING: 0.34  
MEAN (mm): 0.15 MEDIAN (mm): 0.16  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.62 SORTING: 0.53  
MEAN (mm): 0.16

DATA FILE NAME: JP#10 MID.TAB



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

SAMPLE NO.: JP#10 BOTT  
SAMPLE ELEV. (FT. NGVD): 0.0  
SAMPLE DEPTH (FT.): 0.0  
SAMPLE TYPE: SURFACE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 100.44  
SAMPLE WEIGHT AFTER WASH (GRAMS): 95.49

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	0.95	0.95	99.05
5	-2.00	4.000	3.65	3.63	96.37
7	-1.50	2.800	6.88	6.85	93.15
10	-1.00	2.000	10.59	10.54	89.46
14	-0.50	1.400	14.08	14.02	85.98
18	0.00	1.000	16.73	16.66	83.34
25	0.50	0.710	19.49	19.40	80.60
35	1.00	0.500	21.98	21.88	78.12
45	1.50	0.355	24.24	24.13	75.87
60	2.00	0.250	27.71	27.59	72.41
80	2.50	0.180	30.82	30.68	69.32
120	3.00	0.125	32.56	32.42	67.58
170	3.50	0.090	92.00	91.60	8.40
200	3.75	0.075	95.08	94.66	5.34
230	4.00	0.063	97.80	97.38	2.62
PAN			100.43	99.99	0.01

PHI(5): -1.79 PHI(16): -0.12 PHI(25): 1.63  
PHI(50): 3.15 PHI(75): 3.36 PHI(84): 3.44  
PHI(95): 3.78

SIEVE LOSS(g): 0.01 SILT/CLAY: 5.34%  
SKEWNESS: -1.209 KURTOSIS: 1.316

GRAPHIC METHOD

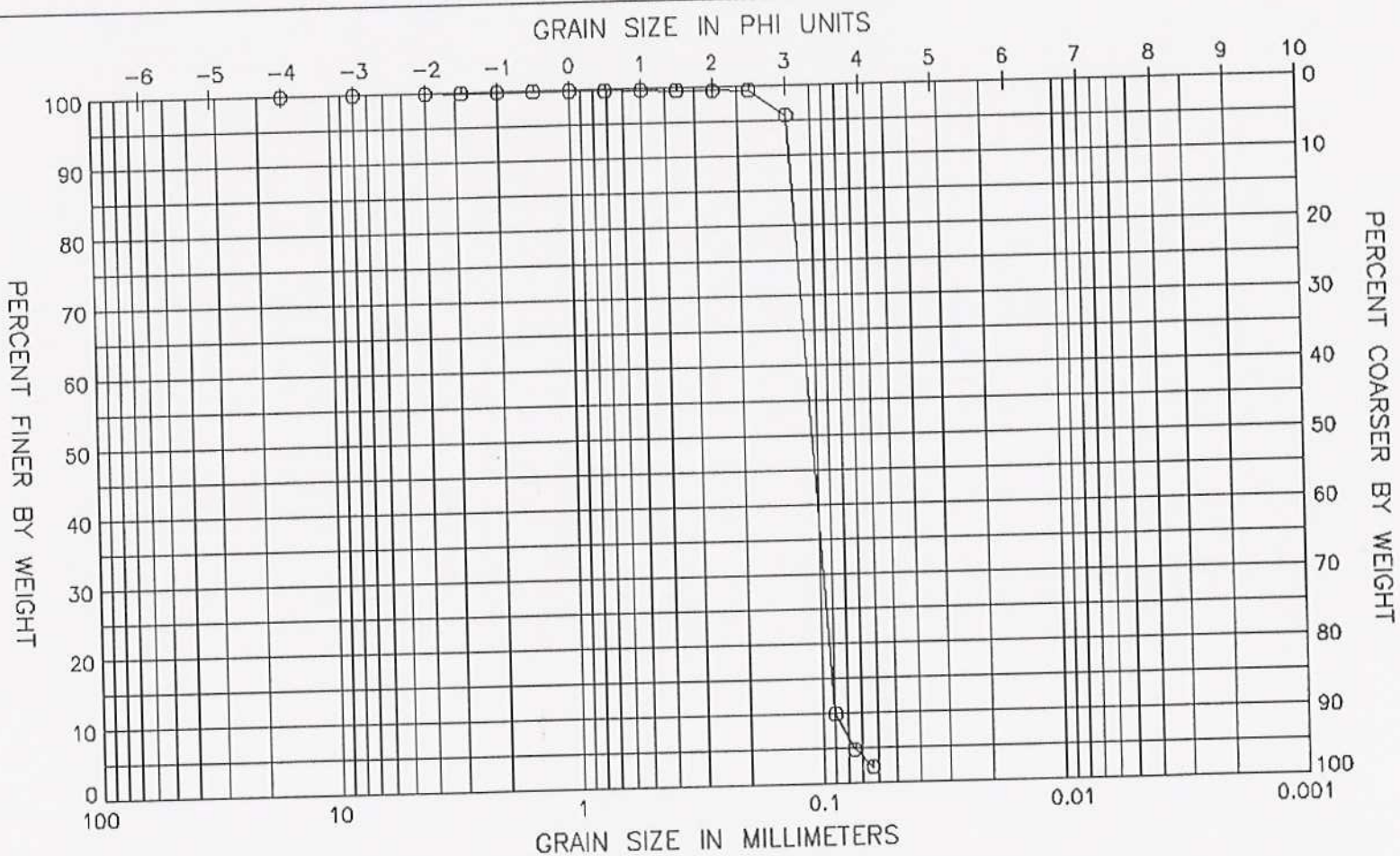
MEAN (PHI): 1.69 SORTING: 1.78  
MEAN (mm): 0.31 MEDIAN (mm): 0.11  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.19 SORTING: 1.84  
MEAN (mm): 0.22

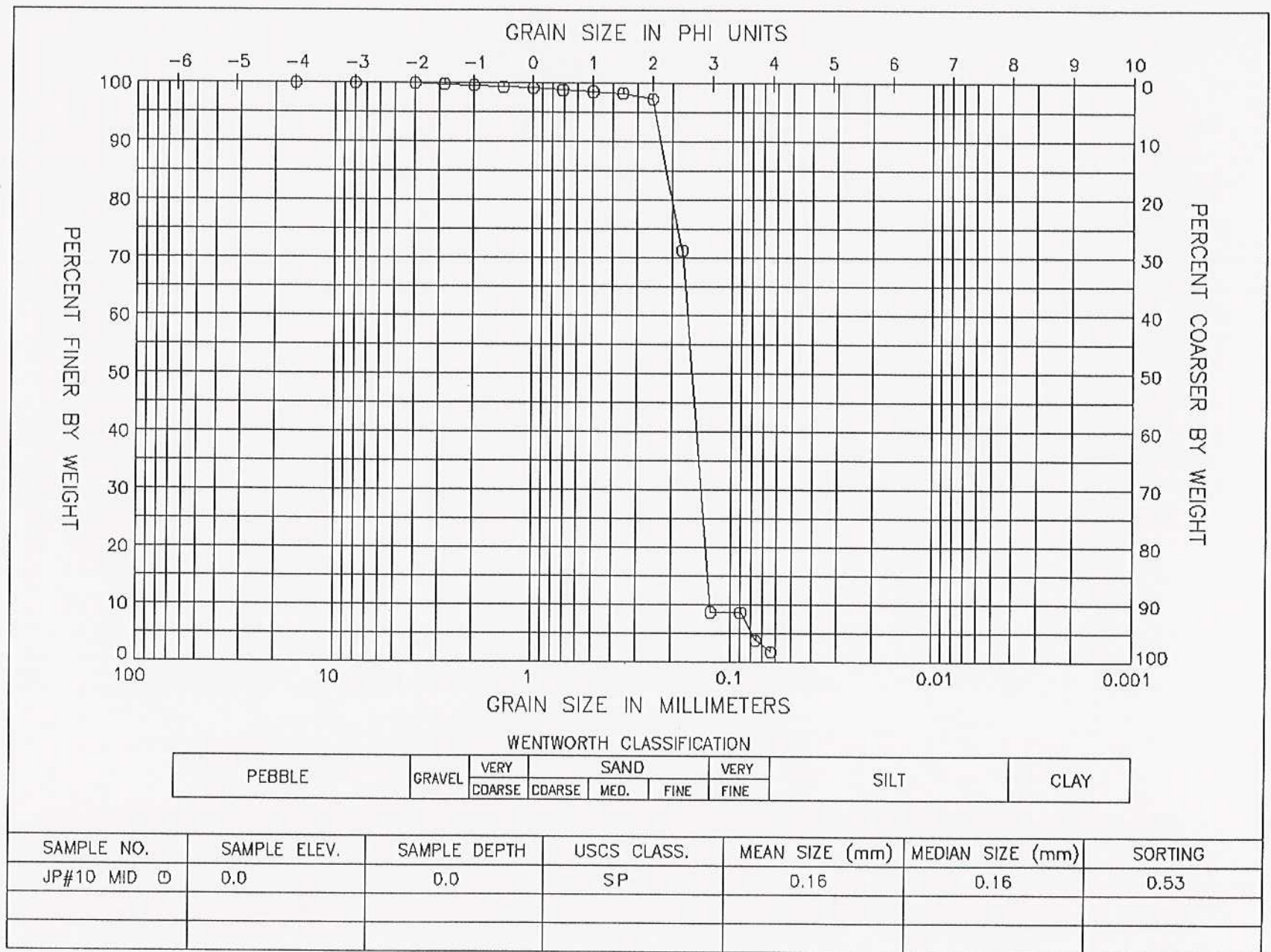
DATA FILE NAME: JP#10 BOTT.TAB

# GRAIN SIZE DISTRIBUTION CURVE ESTERO JET PROBES 2000

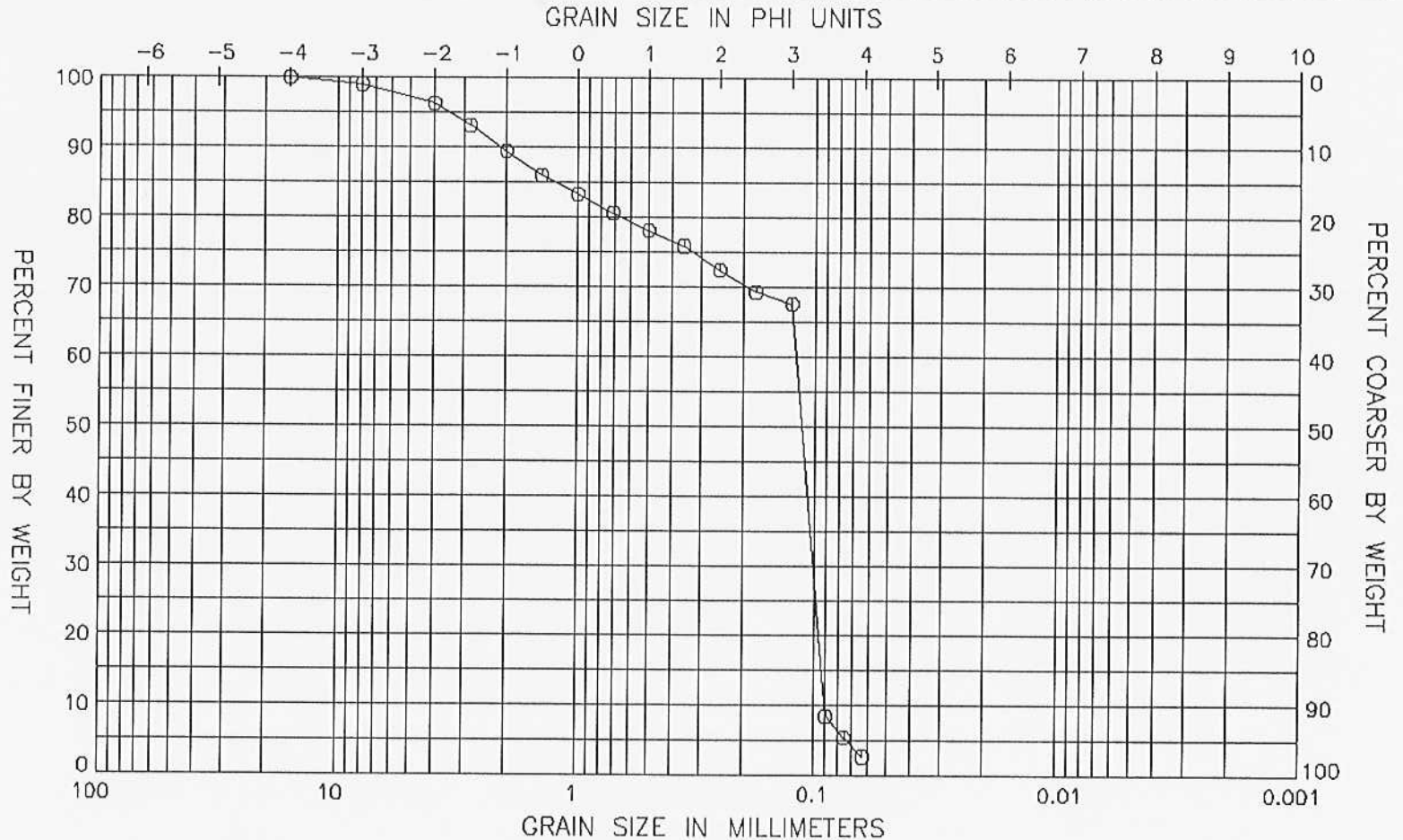




GRAIN SIZE DISTRIBUTION CURVE  
ESTERO JET PROBES 2000



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#10 BOTT ①	0.0	0.0	SP-SM	0.22	0.11	1.84