

Grain Size Analysis

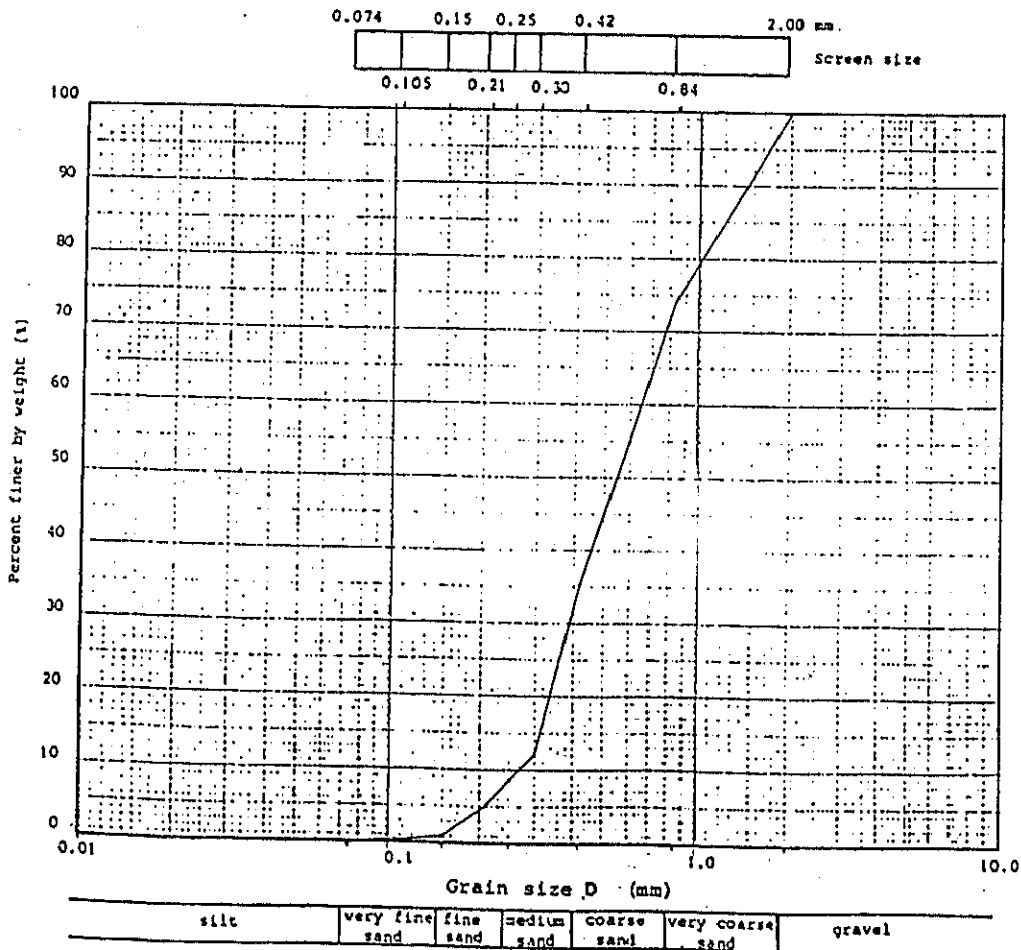
Sample No. 28 A
 Name of sample Bali Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	50.75	74.625
0.42	78.5	35.375
0.30	46.45	12.15
0.25	6.65	8.825
0.21	7.75	4.95
0.15	7.85	1.025
0.105	1.70	0.175
0.074	0.35	0
	0	-

Very coarse sand (2.00-0.84mm) %	25.375
Coarse sand (0.84-0.42mm) %	39.25
Medium sand (0.42-0.25mm) %	26.55
Fine sand (0.25-0.15mm) %	7.8
Very fine sand (0.15-0.074mm) %	1.025
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	0.64
30% grain size mm	0.394
10% grain size mm	0.268
Coefficient of uniformity U_c	2.388
Coefficient of curvature U_c'	0.905

Grain size accumulation curve



Grain Size Analysis

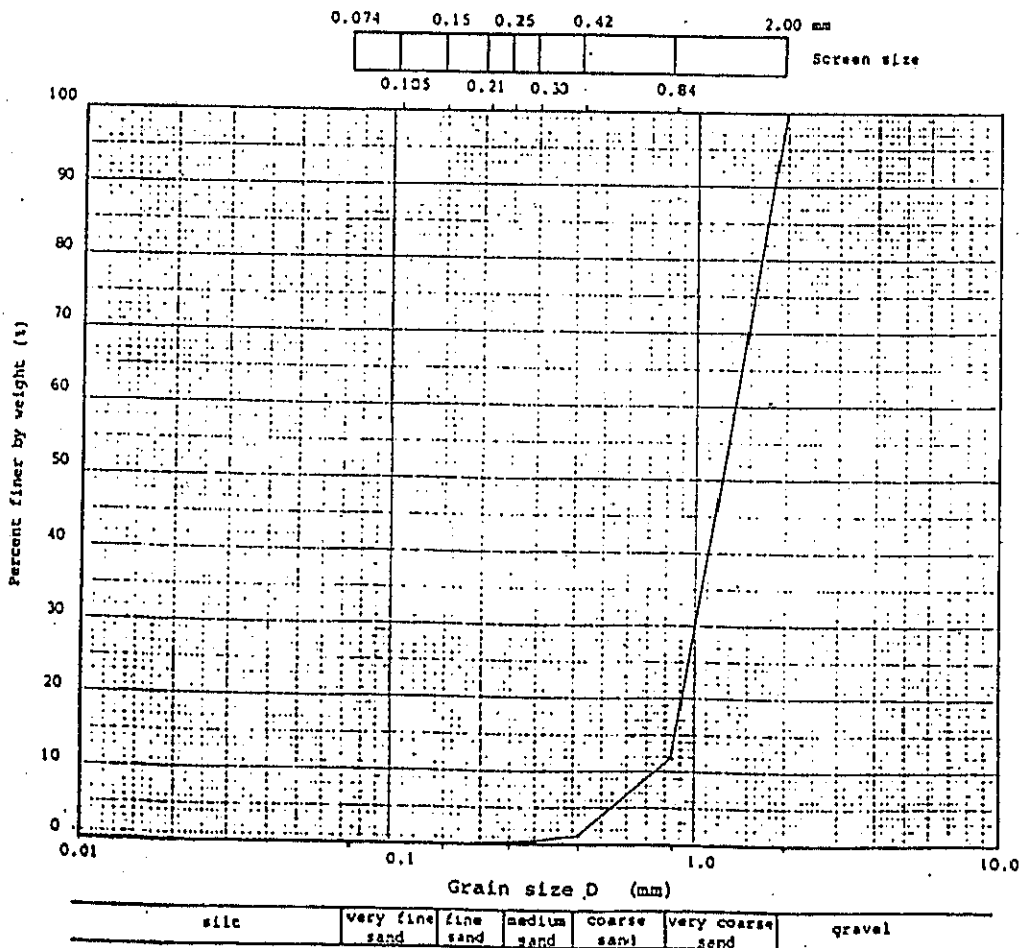
Sample No. 28 B
 Name of sample Bali Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	176.10	11.95
0.42	21.75	1.075
0.30	1.85	0.15
0.25	0.15	0.075
0.21	0.10	0.075
0.15	0.05	0
0.105	0	0
0.074	0	0
	0	-

Very coarse sand (2.00-0.84mm) %	88.05
Coarse sand (0.84-0.42mm) %	10.875
Medium sand (0.42-0.25mm) %	1.0
Fine sand (0.25-0.15mm) %	0.075
Very fine sand (0.15-0.074mm) %	0
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	1.34
30% grain size mm	1.0
10% grain size mm	0.74
Coefficient of uniformity U_c	1.811
Coefficient of curvature U_c'	1.008

Grain size accumulation curve



App. 3.36

Grain Size Analysis

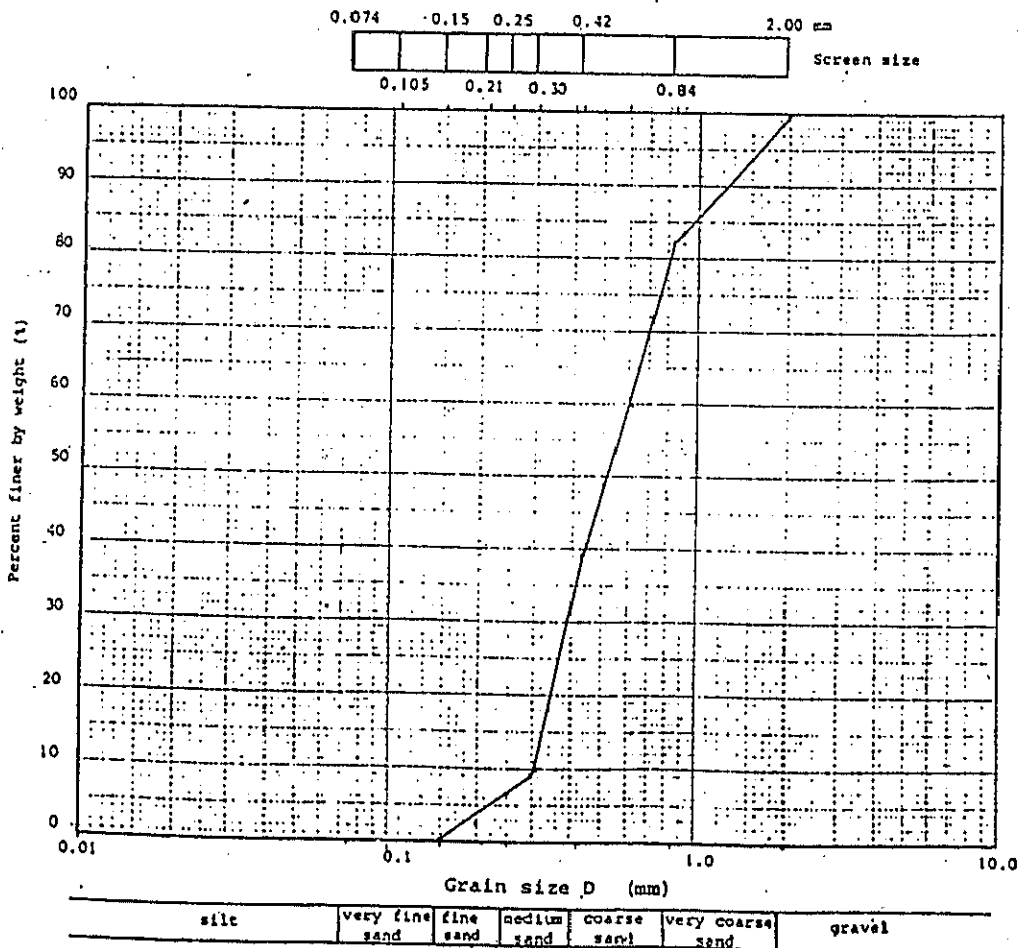
Sample No. 29 A
 Name of sample Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	35.9	82.05
0.42	84.85	39.625
0.30	60.55	9.35
0.25	5.05	6.825
0.21	8.45	2.6
0.15	4.8	0.2
0.105	0.4	0
0.074	0	0
	0	-

Very coarse sand (2.00-0.84mm) %	17.95
Coarse sand (0.84-0.42mm) %	42.425
Medium sand (0.42-0.25mm) %	32.8
Fine sand (0.25-0.15mm) %	6.625
Very fine sand (0.15-0.074mm) %	0.2
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	0.6
30% grain size mm	0.39
10% grain size mm	0.305
Coefficient of uniformity U_c	1.97
Coefficient of curvature U_c'	0.83

Grain size accumulation curve



App.3.37

Grain Size Analysis

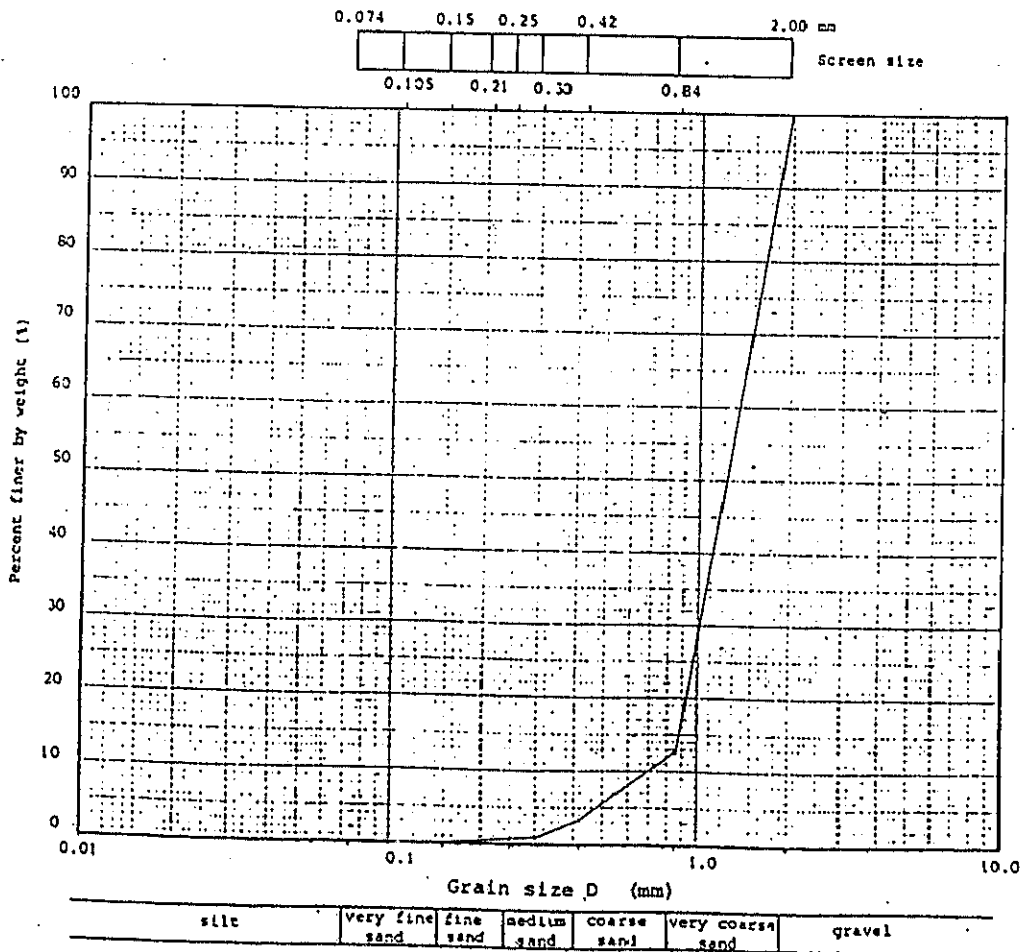
Sample No. 29 B
 Name of sample Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	174.70	12.65
0.42	18.30	3.5
0.30	4.95	1.025
0.25	0.55	0.75
0.21	0.9	0.30
0.15	0.6	0
0.105	-	-
0.074	-	-

Very coarse sand (2.00-0.84mm) %	87.35
Coarse sand (0.84-0.42mm) %	9.15
Medium sand (0.42-0.25mm) %	2.75
Fine sand (0.25-0.15mm) %	0.75
Very fine sand (0.15-0.074mm) %	0
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	1.35
30% grain size mm	1.01
10% grain size mm	0.70
Coefficient of uniformity, U _c	1.929
Coefficient of curvature U _{c'}	1.079

Grain size accumulation curve



App.3.38

Grain Size Analysis

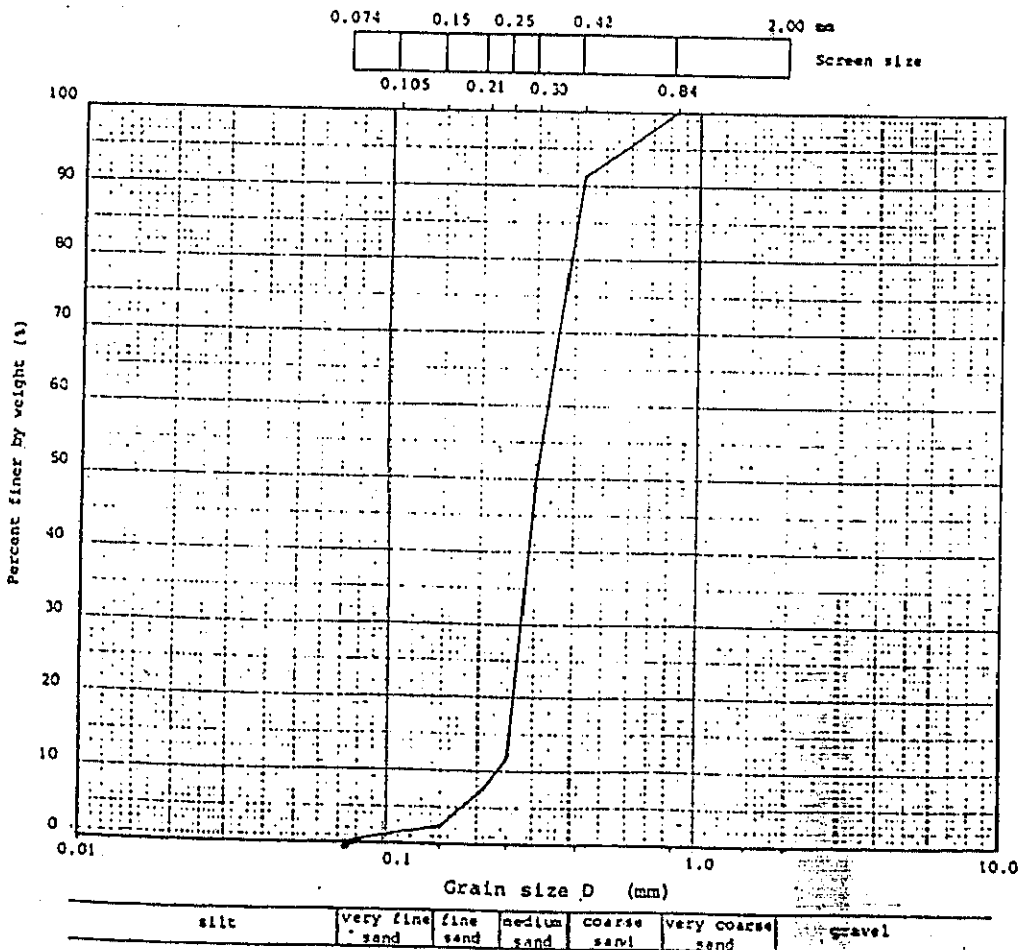
Sample No. 30 A
 Name of sample Bali Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00	0	100
0.84	0	100
0.42	17.80	91.10
0.30	83.96	49.12
0.25	74.56	11.84
0.21	7.90	7.89
0.15	11.26	2.26
0.105	4.26	0.13
0.074	0.16	0.05
	0.10	-

Very coarse sand (2.00-0.84mm) %	-
Coarse sand (0.84-0.42mm) %	8.9
Medium sand (0.42-0.25mm) %	79.26
Fine sand (0.25-0.15mm) %	9.58
Very fine sand (0.15-0.074mm) %	2.21
Silt or clay (under 0.074mm) %	0.05
Maximum grain size ϕ	0.42
60% grain size ϕ	0.327
30% grain size ϕ	0.275
10% grain size ϕ	0.23
Coefficient of uniformity U_c	1.422
Coefficient of curvature U_c'	1.006

Grain size accumulation curve



App. 3.39

Grain Size Analysis

Sample No. 30 B

Date _____

Name of sample Beach Sand

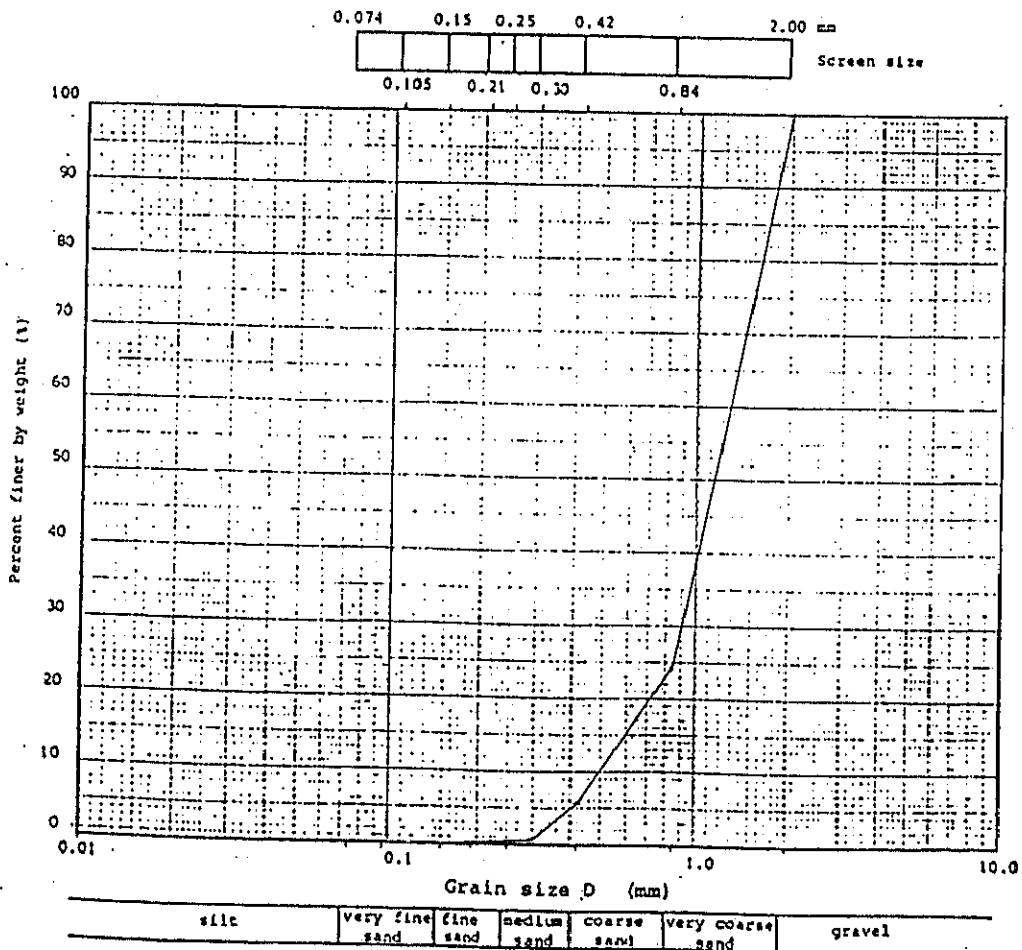
Signature _____

Locality Nusa Dua Beach

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	151.75	24.125
0.42	36.75	5.75
0.30	10.10	0.70
0.25	0.40	0.50
0.21	0.80	0.10
0.15	0.20	0
0.105	0	0
0.074	0	0
	0	-

Very coarse sand (2.00-0.84mm) %	75.875
Coarse sand (0.84-0.42mm) %	18.375
Medium sand (0.42-0.25mm) %	5.25
Fine sand (0.25-0.15mm) %	0.50
Very fine sand (0.15-0.074mm) %	0
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	1.28
30% grain size mm	0.90
10% grain size mm	0.49
Coefficient of uniformity U_c	2.612
Coefficient of curvature U_c'	1.291

Grain size accumulation curve



App.3.40

Grain Size Analysis

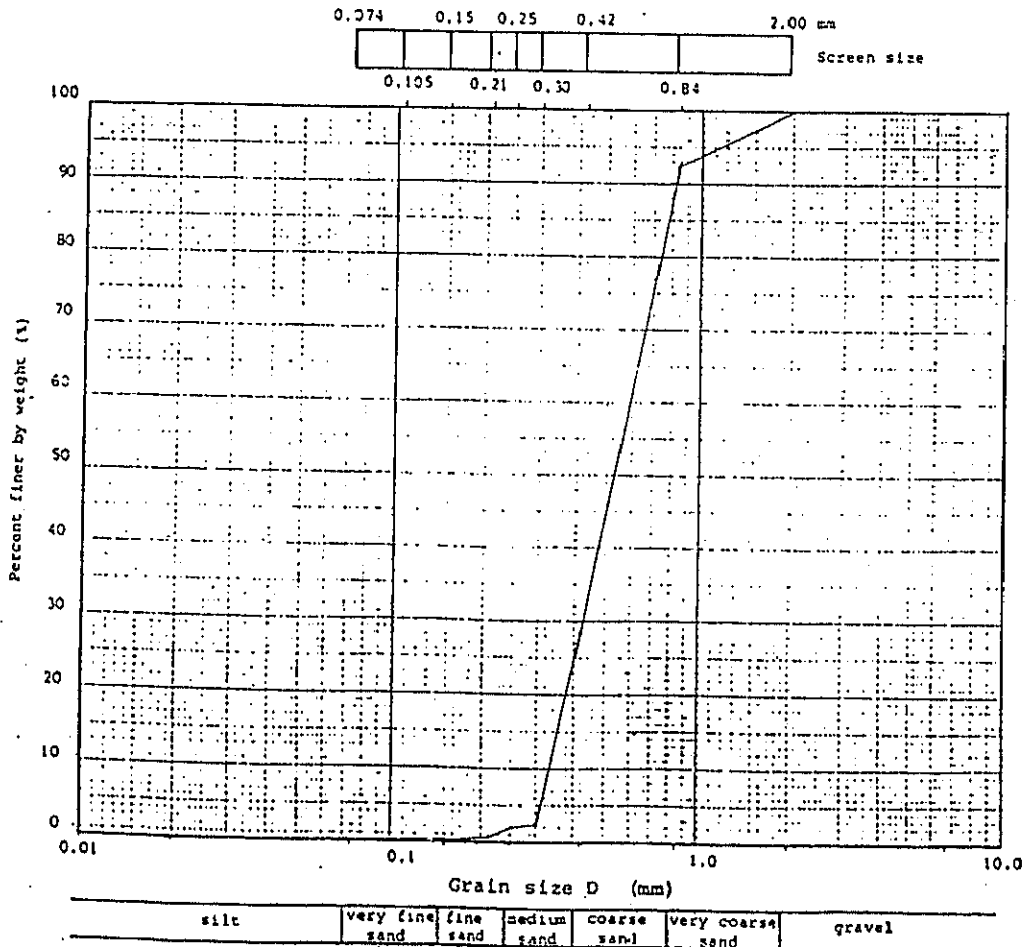
Sample No. 31-A
 Name of sample Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	14.8	92.6
0.42	128.2	28.5
0.30	50.4	3.3
0.25	2.6	2.0
0.21	3.1	0.45
0.15	0.65	0.125
0.105	0.05	0.1
0.074	0.05	0.075
	0.15	-

Very coarse sand (2.00-0.84mm) %	7.4
Coarse sand (0.84-0.42mm) %	64.1
Medium sand (0.42-0.25mm) %	26.5
Fine sand (0.25-0.15mm) %	1.875
Very fine sand (0.15-0.074mm) %	0.05
Silt or clay (under 0.074mm) %	0.075
Maximum grain size mm	0.84
60% grain size mm	0.59
30% grain size mm	0.425
10% grain size mm	0.33
Coefficient of uniformity U_c	1.788
Coefficient of curvature U_c'	0.928

Grain size accumulation curve



App.3.41

Grain Size Analysis

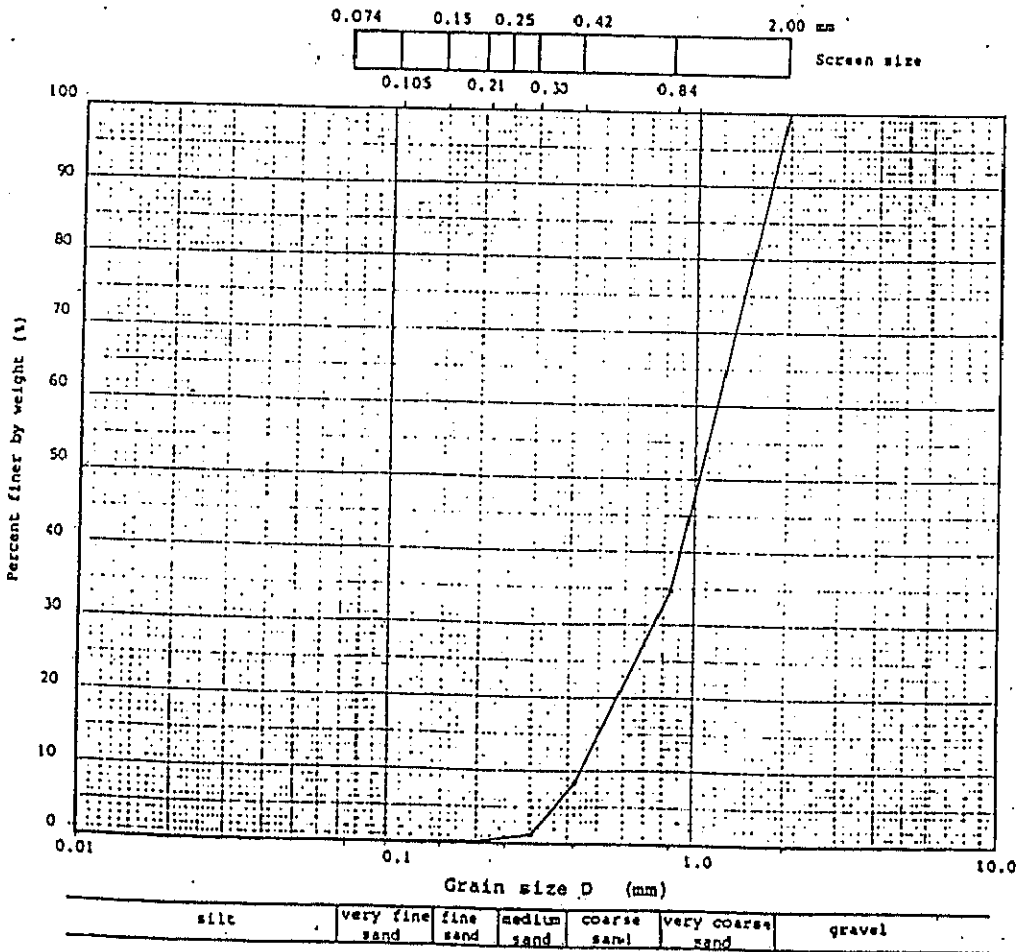
Sample No. 31 B
 Name of sample Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	130.50	34.75
0.42	52.30	8.60
0.30	14.75	1.225
0.25	0.80	0.825
0.21	1.20	0.225
0.15	0.30	0.075
0.105	0.10	0.025
0.074	0.05	0
	0	-

Very coarse sand (2.00-0.84mm) %	65.25
Coarse sand (0.84-0.42mm) %	26.15
Medium sand (0.42-0.25mm) %	7.775
Fine sand (0.25-0.15mm) %	0.75
Very fine sand (0.15-0.074mm) %	0.075
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	1.18
30% grain size mm	0.74
10% grain size mm	0.44
Coefficient of uniformity U_c	2.682
Coefficient of curvature U_c'	1.055

Grain size accumulation curve



App.3.42

Grain Size Analysis

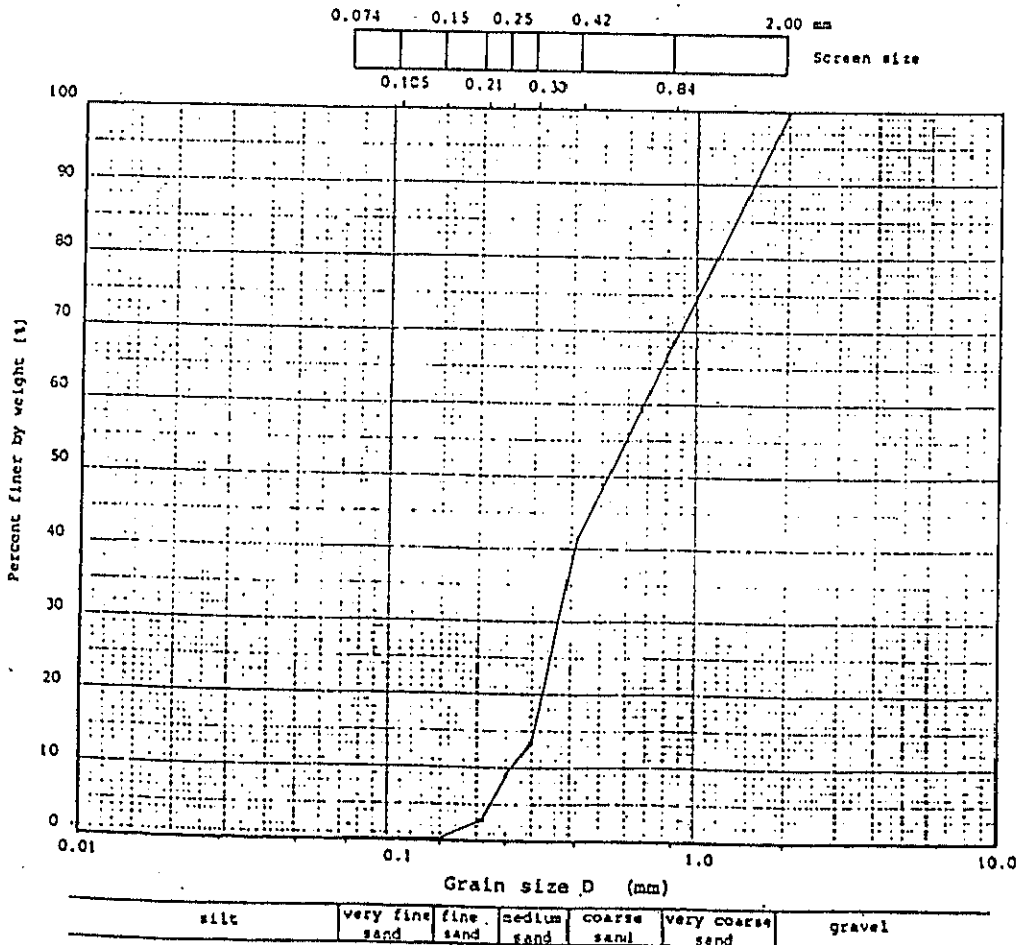
Sample No. 32 A
 Name of sample Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	62.30	68.85
0.42	54.90	41.40
0.30	56.00	13.40
0.25	9.10	8.85
0.21	12.00	2.85
0.15	5.30	0.20
0.105	0.30	0.05
0.074	0.06	0.02
	0.04	-

Very coarse sand (2.00-0.84mm) %	31.15
Coarse sand (0.84-0.42mm) %	27.45
Medium sand (0.42-0.25mm) %	32.55
Fine sand (0.25-0.15mm) %	8.65
Very fine sand (0.15-0.074mm) %	0.18
Silt or clay (under 0.074mm) %	0.02
Maximum grain size mm	0.84
60% grain size mm	0.67
30% grain size mm	0.36
10% grain size mm	0.26
Coefficient of uniformity U_c	2.577
Coefficient of curvature U_c'	0.744

Grain size accumulation curve



App. 3.43

Grain Size Analysis

Sample No. 32 B

Date _____

Name of sample Beach Sand

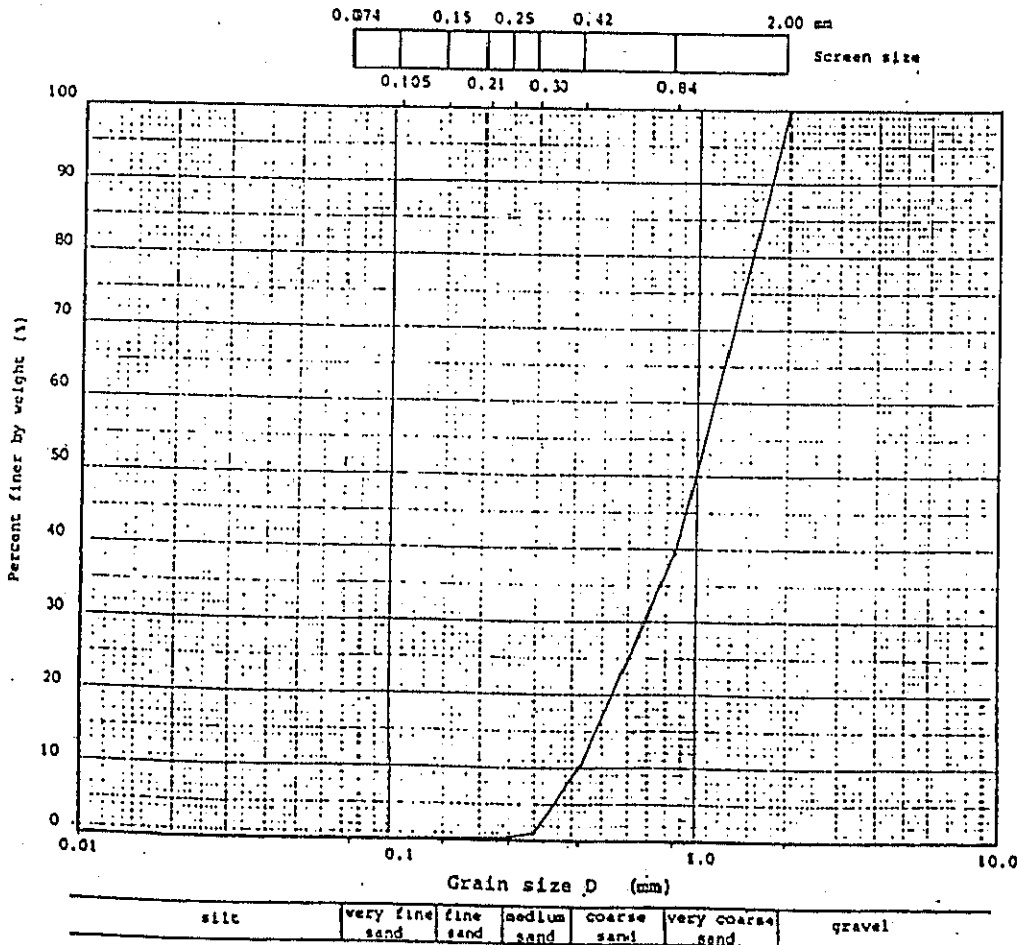
Signature _____

Locality Nusa Dua Beach

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	121.00	39.50
0.42	58.80	10.10
0.30	18.40	0.90
0.25	0.85	0.475
0.21	0.75	0.10
0.15	0.10	0.05
0.105	0.05	0.025
0.074	0.05	0
	0	-

Very coarse sand (2.00-0.84mm) %	60.50
Coarse sand (0.84-0.42mm) %	29.40
Medium sand (0.42-0.25mm) %	9.625
Fine sand (0.25-0.15mm) %	0.425
Very fine sand (0.15-0.074mm) %	0.05
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	1.15
30% grain size mm	0.68
10% grain size mm	0.42
Coefficient of uniformity U_c	2.738
Coefficient of curvature U_c'	0.957

Grain size accumulation curve



App.3.44

Grain Size Analysis

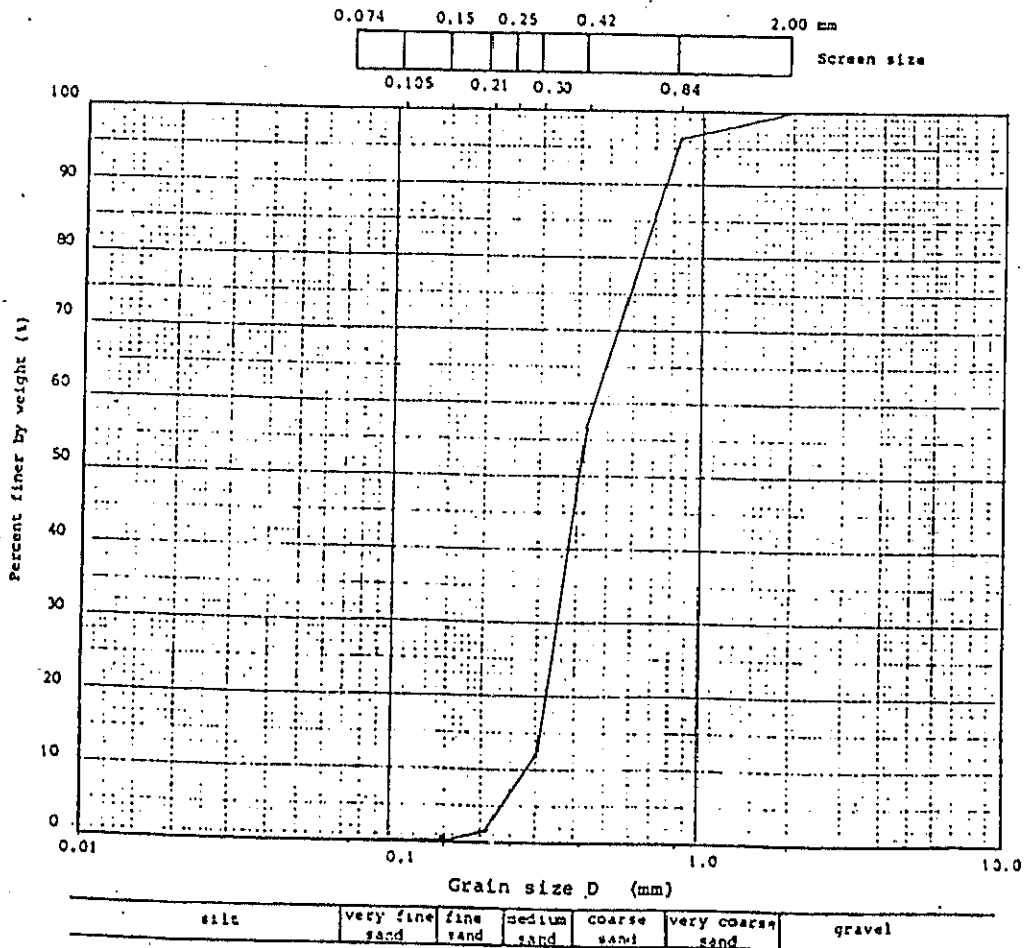
Sample No. 33 A
 Name of sample Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	7.65	96.175
0.42	78.40	56.975
0.30	89.76	12.095
0.25	9.74	7.225
0.21	11.06	1.695
0.15	3.24	0.075
0.105	0.1	0.025
0.074	0.05	0
	0	-

Very coarse sand (2.00-0.84mm) %	3.825
Coarse sand (0.84-0.42mm) %	39.20
Medium sand (0.42-0.25mm) %	49.75
Fine sand (0.25-0.15mm) %	7.15
Very fine sand (0.15-0.074mm) %	0.075
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
50% grain size mm	0.45
30% grain size mm	0.35
10% grain size mm	0.28
Coefficient of uniformity U_c	1.607
Coefficient of curvature U_c'	0.972

Grain size accumulation curve



App.3.45

Grain Size Analysis

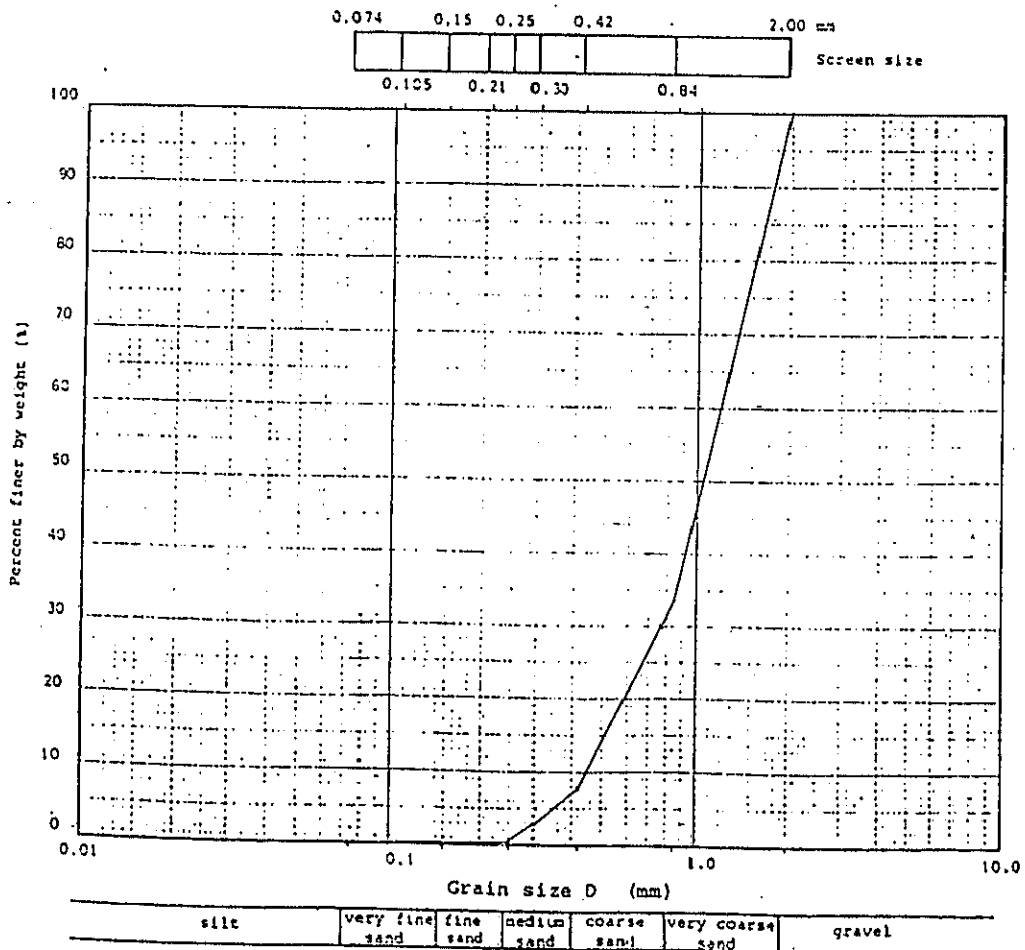
Sample No. 33 B
 Name of sample Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	132.4	33.80
0.42	51.8	7.9
0.30	14.00	2.9
0.25	0.75	0.525
0.21	0.80	0.125
0.15	0.20	0.025
0.105	0.05	0
0.074	0	0
	0	-

Very coarse sand (2.00-0.84mm) %	66.20
Coarse sand (0.84-0.42mm) %	25.9
Medium sand (0.42-0.25mm) %	7.375
Fine sand (0.25-0.15mm) %	0.5
Very fine sand (0.15-0.074mm) %	0.025
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	1.19
30% grain size mm	0.77
10% grain size mm	0.445
Coefficient of uniformity U_c	2.674
Coefficient of curvature U_c'	1.120

Grain size accumulation curve



App.3.46

Grain Size Analysis

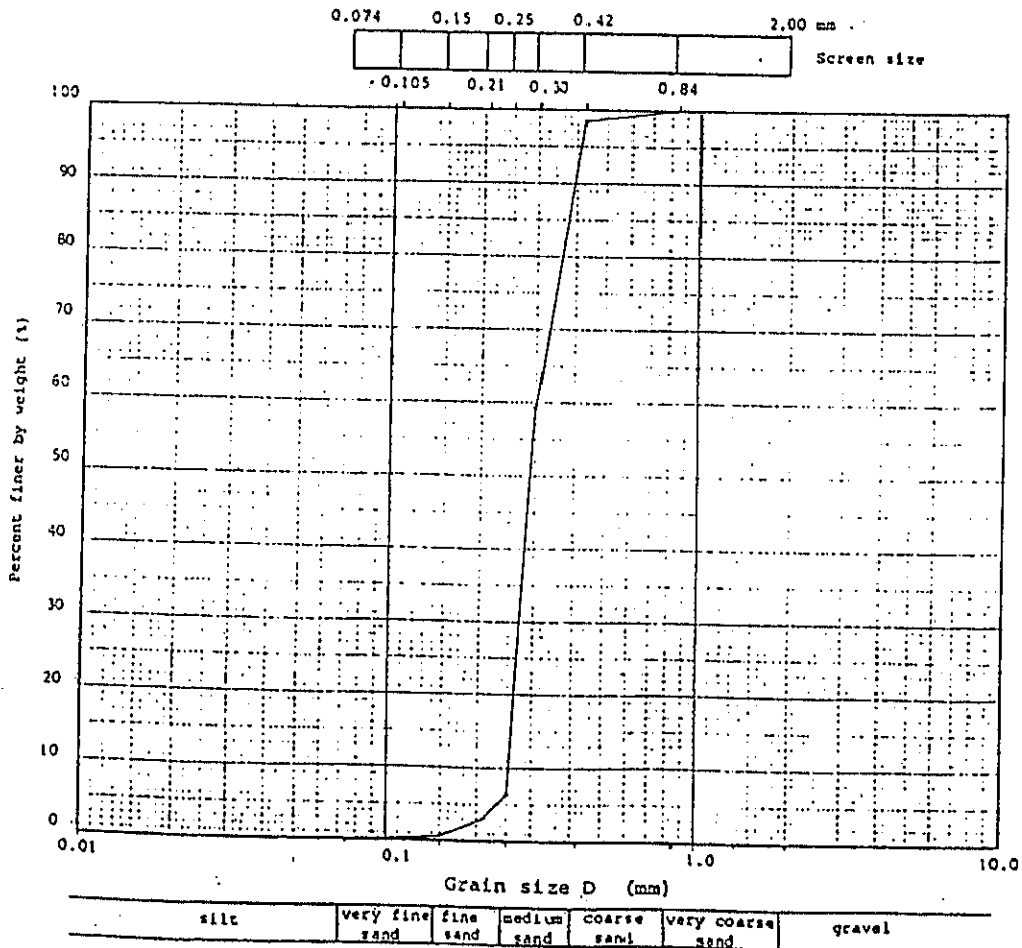
Sample No. 34 A
 Name of sample Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	0	100
0.42	3	98.5
0.30	78.25	59.375
0.25	106.15	6.30
0.21	6.3	3.15
0.15	5.15	0.575
0.105	1.05	0.05
0.074	0.05	0.025
	0.05	-

g		
Very coarse sand (2.00-0.84mm)	%	0
Coarse sand (0.84-0.42mm)	%	1.5
Medium sand (0.42-0.25mm)	%	92.2
Fine sand (0.25-0.15mm)	%	5.725
Very fine sand (0.15-0.074mm)	%	0.55
silt or clay (under 0.074mm)	%	0.025
Maximum grain size mm		0.42
60% grain size mm		0.301
30% grain size mm		0.27
10% grain size mm		0.255
Coefficient of uniformity U_c		1.180
Coefficient of curvature U_c'		0.950

Grain size accumulation curve



App.3.47

Grain Size Analysis

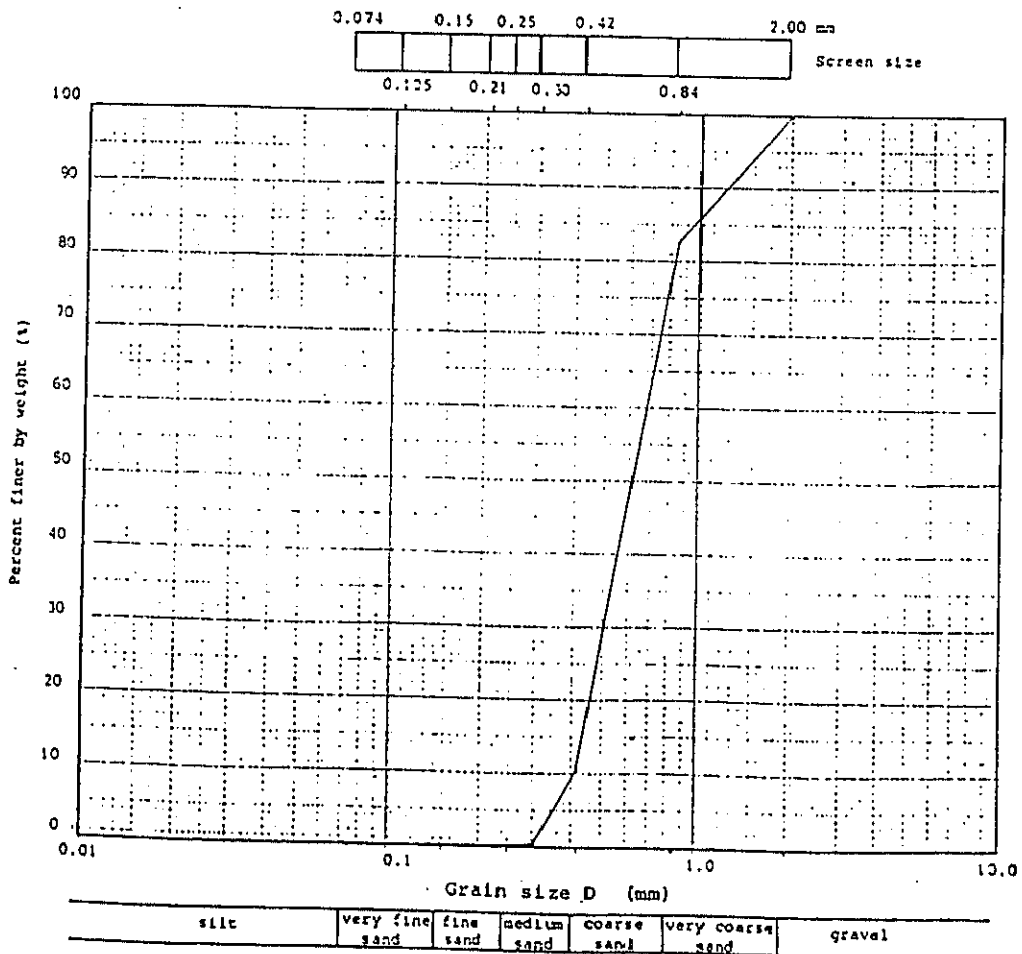
Sample No. 34 P
 Name of sample Beach Sand
 Locality Musa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	34.35	82.825
0.42	144.70	10.475
0.30	20.45	0.25
0.25	0.20	0.15
0.21	0.15	0.075
0.15	0.05	0.05
0.105	0.05	0.025
0.074	0.05	0
	0	-

Very coarse sand (2.00-0.84mm) %	17.175
Coarse sand (0.84-0.42mm) %	72.35
Medium sand (0.42-0.25mm) %	10.325
Fine sand (0.25-0.15mm) %	0.10
Very fine sand (0.15-0.074mm) %	0.05
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	0.67
30% grain size mm	0.50
10% grain size mm	0.41
Coefficient of uniformity U_c	1.634
Coefficient of curvature U_c'	0.910

Grain size accumulation curve



App. 3.48

Grain Size Analysis

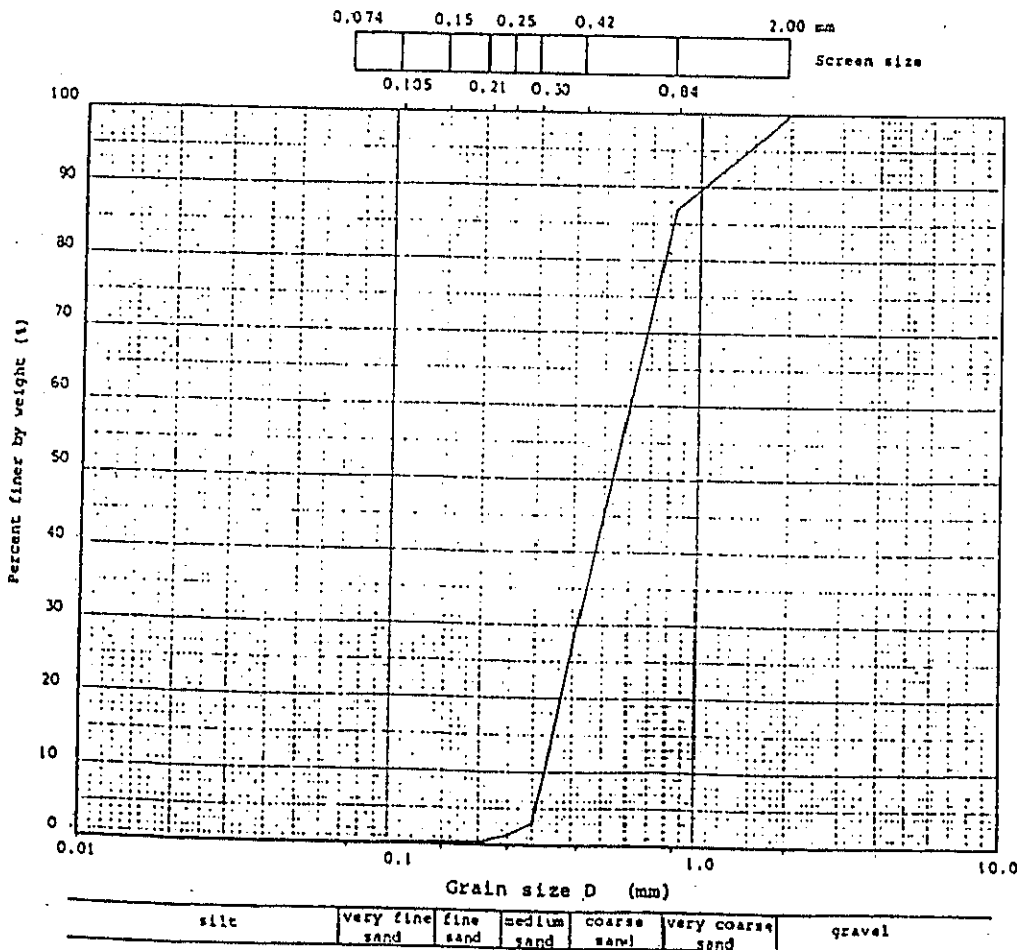
Sample No. 35 A
 Name of sample Bali Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	25.9	87.05
0.42	113.35	30.375
0.30	54.95	2.9
0.25	3.0	1.4
0.21	2.05	0.375
0.15	0.5	0.125
0.105	0.1	0.075
0.074	0.05	0.05
	0.10	-

Very coarse sand (2.00-0.84mm) %	12.95
Coarse sand (0.84-0.42mm) %	56.675
Medium sand (0.42-0.25mm) %	28.975
Fine sand (0.25-0.15mm) %	1.275
Very fine sand (0.15-0.074mm) %	0.075
Silt or clay (under 0.074mm) %	0.05
Maximum grain size mm	0.84
60% grain size mm	0.6
30% grain size mm	0.41
10% grain size mm	0.321
Coefficient of uniformity U_c	1.869
Coefficient of curvature U_c'	0.873

Grain size accumulation curve



Grain Size Analysis

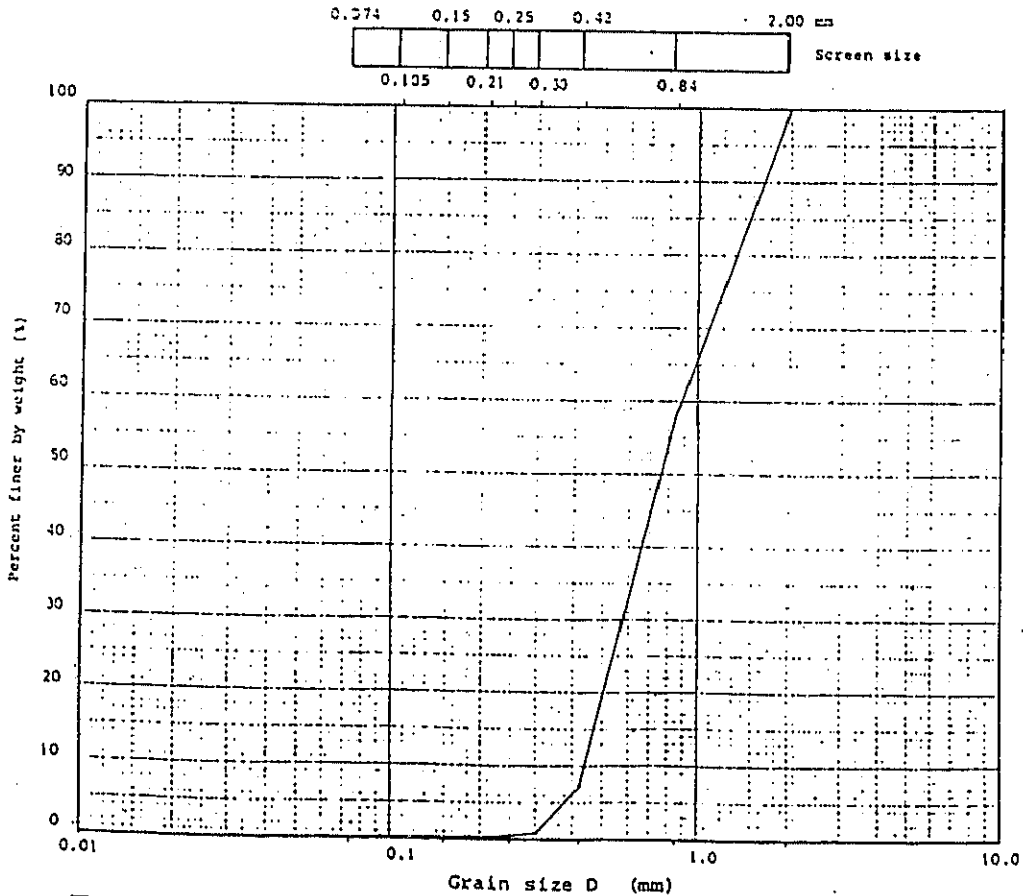
Sample No. 35 B
 Name of sample Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	83.45	58.275
0.42	102.0	7.275
0.30	12.85	0.85
0.25	0.60	0.55
0.21	0.75	0.175
0.15	0.25	0.05
0.105	0.05	0.025
0.074	0.05	0
	0	-

Very coarse sand (2.00-0.84mm) %	41.725
Coarse sand (0.84-0.42mm) %	51.0
Medium sand (0.42-0.25mm) %	6.725
Fine sand (0.25-0.15mm) %	0.5
Very fine sand (0.15-0.074mm) %	0.05
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	0.88
30% grain size mm	0.58
10% grain size mm	0.44
Coefficient of uniformity U_c	2.0
Coefficient of curvature U_c'	0.869

Grain size accumulation curve



silt	very fine sand	fine sand	medium sand	coarse sand	very coarse sand	gravel
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App. 3.50

Grain Size Analysis

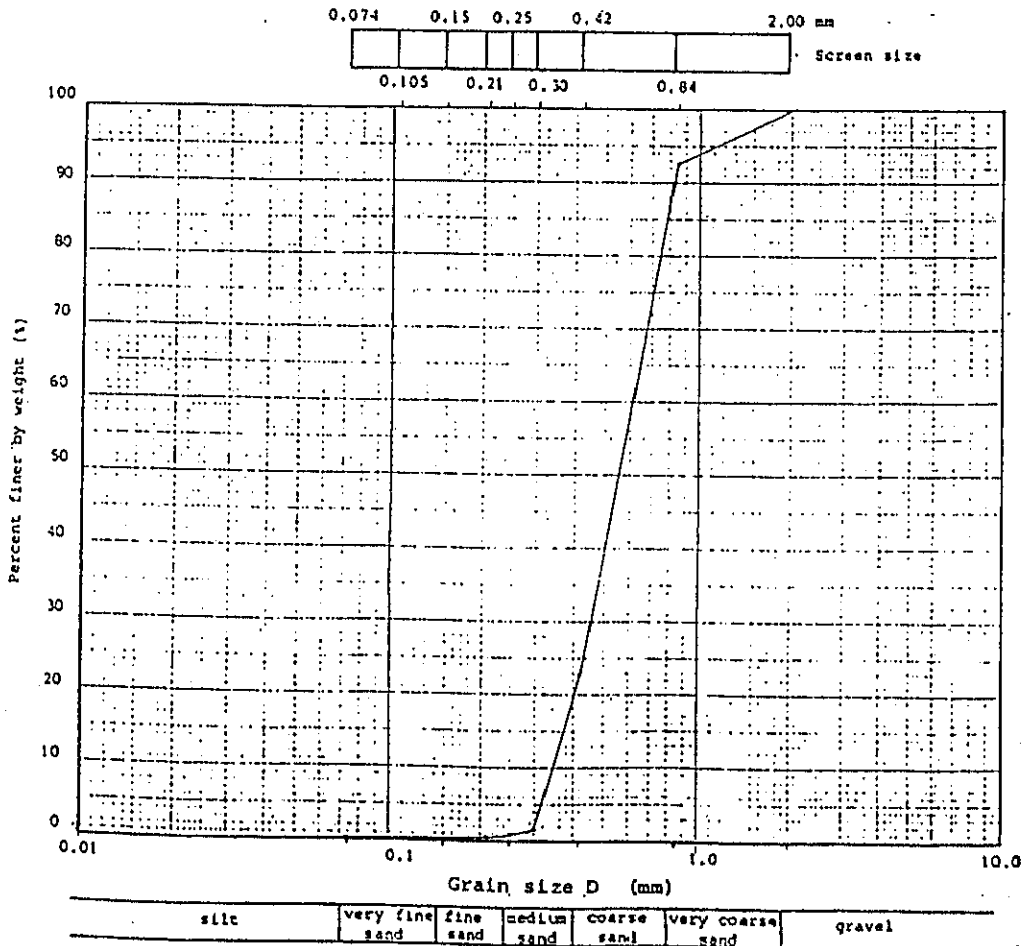
Sample No. 36 A
 Name of sample Pali Beach Sand
 Locality Nusa-Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	14.95	92.525
0.42	139.55	22.75
0.30	42.4	1.55
0.25	1.1	1.0
0.21	1.3	0.35
0.15	0.45	0.125
0.105	0.1	0.075
0.074	0.05	0.05
	0.10	-

g	
Very coarse sand (2.00-0.84mm) %	7.475
Coarse sand (0.84-0.42mm) %	69.775
Medium sand (0.42-0.25mm) %	21.75
Fine sand (0.25-0.15mm) %	0.875
Very fine sand (0.15-0.074mm) %	0.075
Silt or clay (under 0.074mm) %	0.05
Maximum grain size mm	0.84
60% grain size mm	0.61
30% grain size mm	0.46
10% grain size mm	0.34
Coefficient of uniformity U_c	1.794
Coefficient of curvature U_c'	1.020

Grain size accumulation curve



App. 3.51

Grain Size Analysis

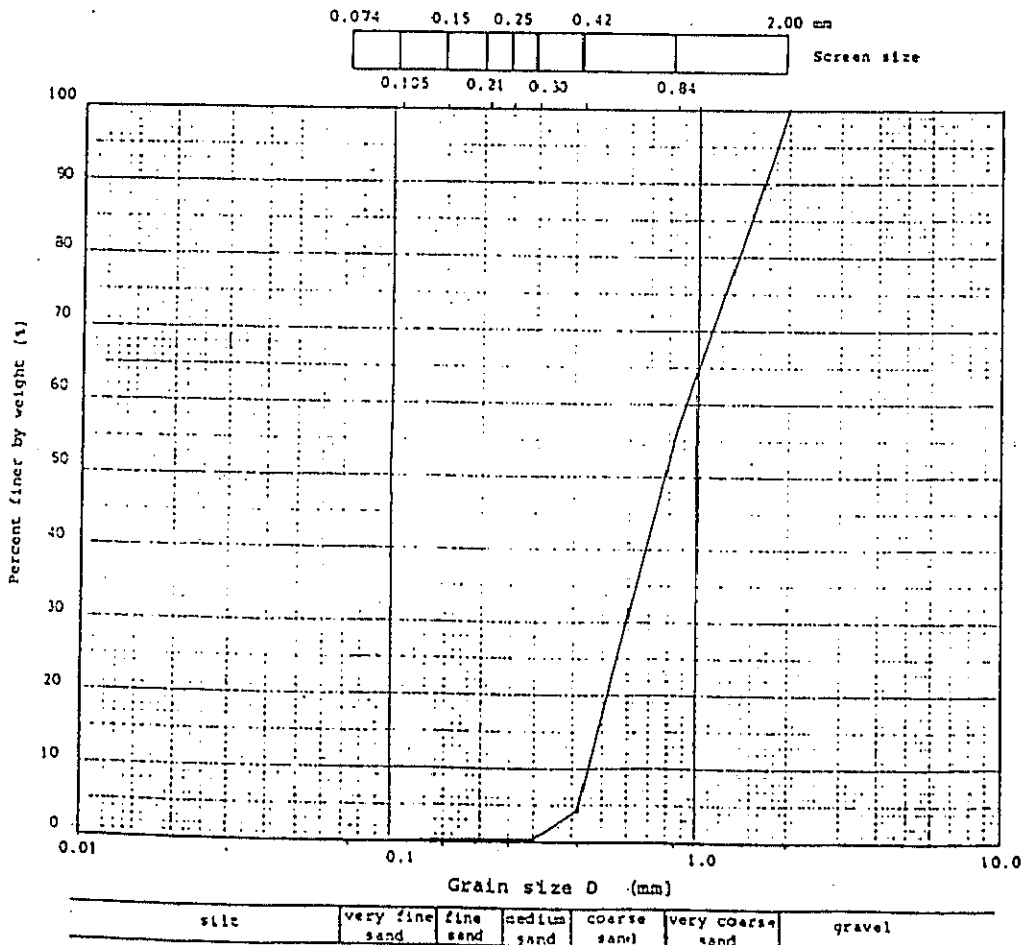
Sample No. 36 B
 Name of sample Bali Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	88.25	55.875
0.42	103.10	4.325
0.30	7.90	0.375
0.25	0.20	0.275
0.21	0.35	0.1
0.15	0.1	0.05
0.105	0.05	0.025
0.074	0.05	0
	0	-

Very coarse sand (2.00-0.84mm) %	44.125
Coarse sand (0.84-0.42mm) %	51.55
Medium sand (0.42-0.25mm) %	4.05
Fine sand (0.25-0.15mm) %	0.225
Very fine sand (0.15-0.074mm) %	0.05
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	0.91
30% grain size mm	0.59
10% grain size mm	0.45
Coefficient of uniformity U_c	2.022
Coefficient of curvature U_c'	0.850

Grain size accumulation curve



App.3.52

Grain Size Analysis

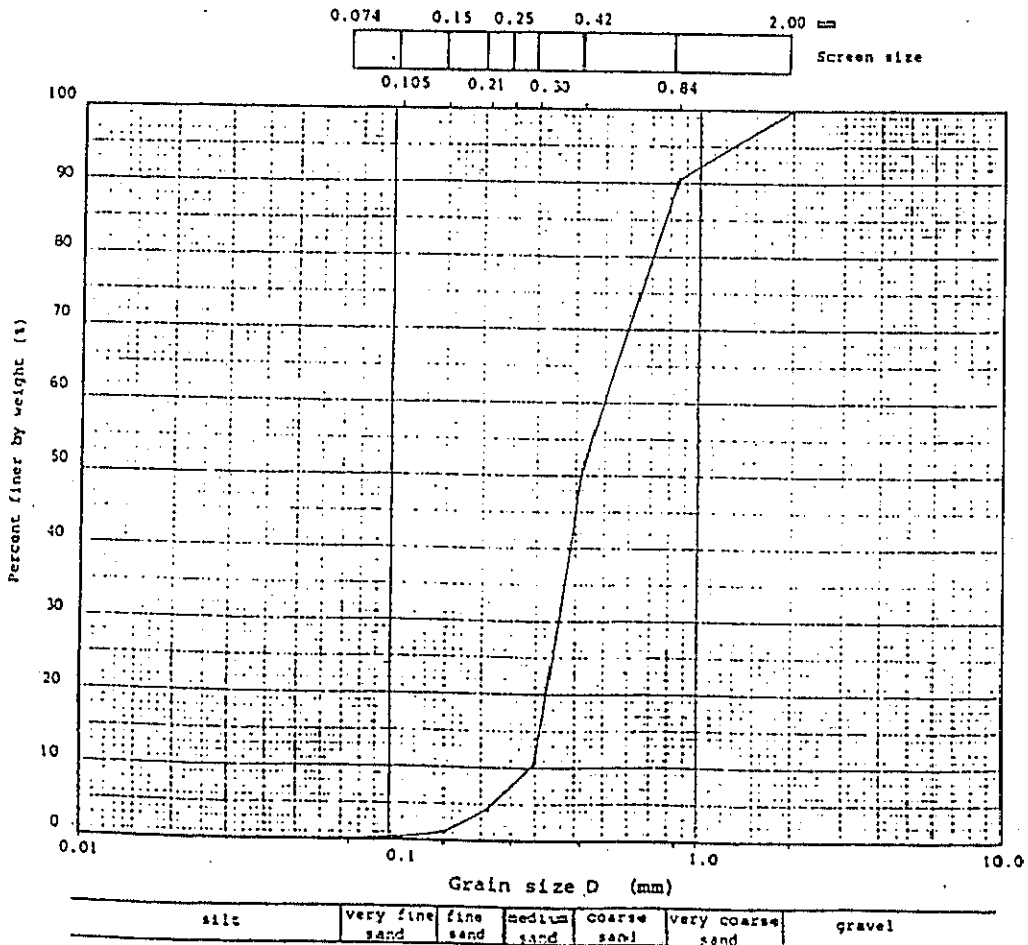
Sample No. 37 A
 Name of sample Bali Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	19.25	90.375
0.42	79.20	50.775
0.30	80.25	10.65
0.25	6.1	7.6
0.21	6.95	4.125
0.15	5.85	1.20
0.105	1.85	0.275
0.074	0.4	0.075
	0.15	-

Very coarse sand (2.00-0.84mm) %	9.625
Coarse sand (0.84-0.42mm) %	39.6
Medium sand (0.42-0.25mm) %	43.175
Fine sand (0.25-0.15mm) %	6.4
Very fine sand (0.15-0.074mm) %	1.125
Silt or clay (under 0.074mm) %	0.075
Maximum grain size mm	0.84
60% grain size mm	0.49
30% grain size mm	0.35
10% grain size mm	0.29
Coefficient of uniformity U_c	1.690
Coefficient of curvature U_c'	0.862

Grain size accumulation curve



App. 3.53

Grain Size Analysis

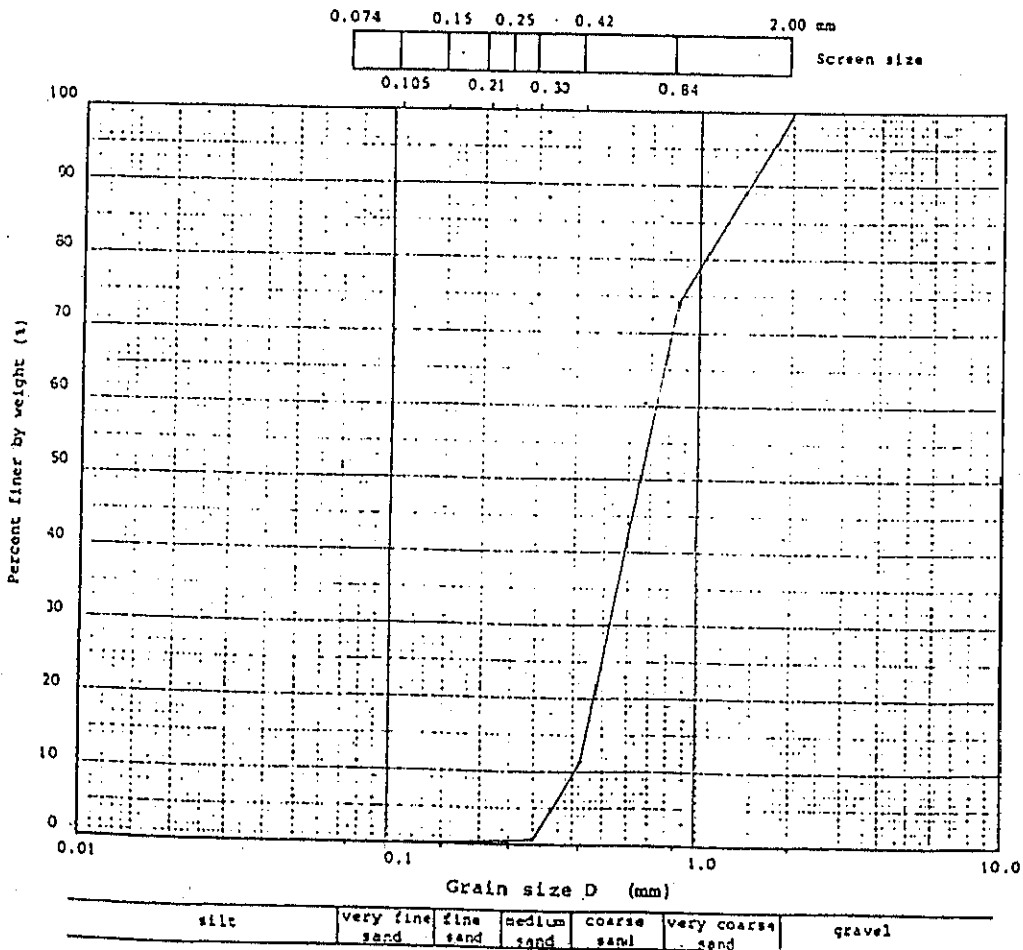
Sample No. 37 B
 Name of sample Bali Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	51.85	74.075
0.42	125.90	11.125
0.30	21.0	0.625
0.25	0.45	0.40
0.21	0.50	0.15
0.15	0.25	0.025
0.105	0.05	0
0.074	0	
	0	-

Very coarse sand (2.00-0.84mm) %	25.925
Coarse sand (0.84-0.42mm) %	62.95
Medium sand (0.42-0.25mm) %	10.725
Fine sand (0.25-0.15mm) %	0.375
Very fine sand (0.15-0.074mm) %	0.025
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	0.73
30% grain size mm	0.52
10% grain size mm	0.402
Coefficient of uniformity U_c	1.816
Coefficient of curvature U_c'	0.921

Grain size accumulation curve



App. 3.54

Grain Size Analysis

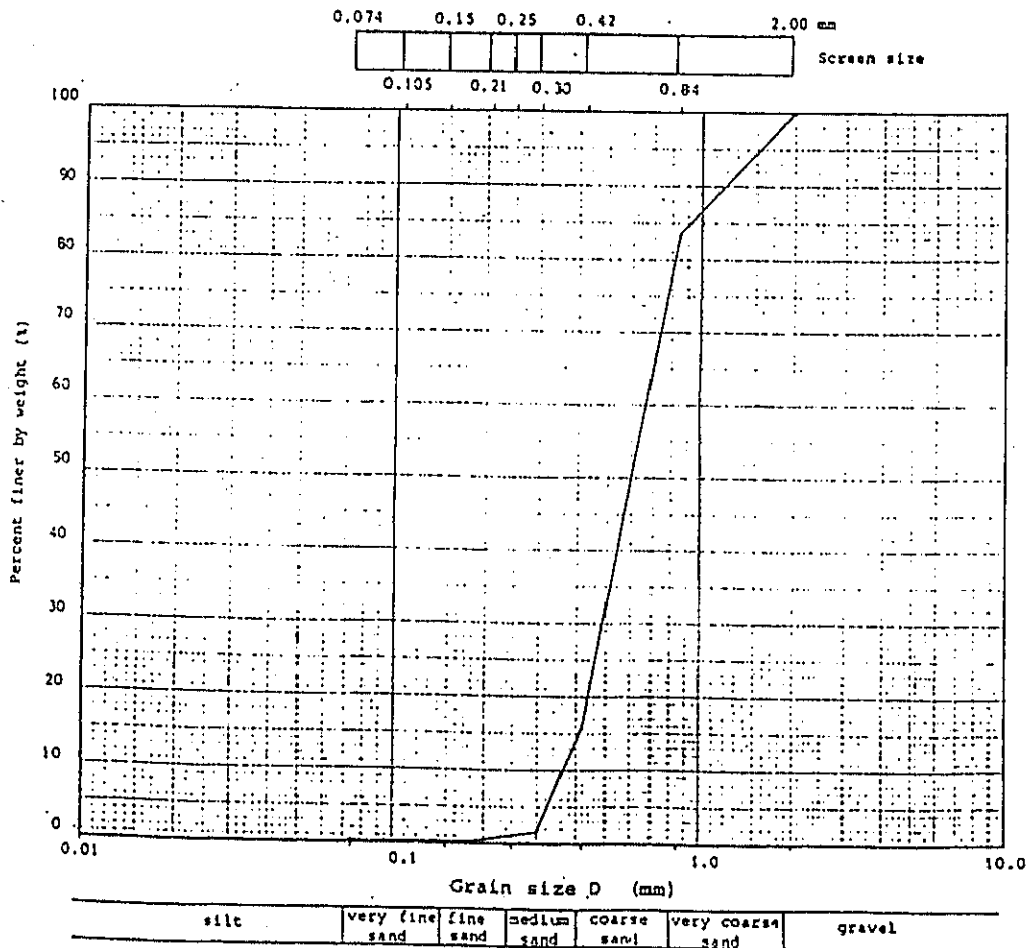
Sample No. 38 A
 Name of sample Bali Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	33.66	33.17
0.42	134.66	15.84
0.30	28.46	1.61
0.25	1.00	1.11
0.21	1.06	0.58
0.15	0.66	0.25
0.105	0.26	0.12
0.074	0.1	0.07
	0.14	-

d		
Very coarse sand	(2.00-0.84mm) %	16.83
Coarse sand	(0.84-0.42mm) %	67.33
Medium sand	(0.42-0.25mm) %	14.73
Fine sand	(0.25-0.15mm) %	0.86
Very fine sand	(0.15-0.074mm) %	0.18
Silt or clay	(under 0.074mm) %	0.07
Maximum grain size mm		0.84
60% grain size mm		0.66
30% grain size mm		0.48
10% grain size mm		0.36
Coefficient of uniformity U_c		1.833
Coefficient of curvature U_c'		0.970

Grain size accumulation curve



App.3.55

Grain Size Analysis

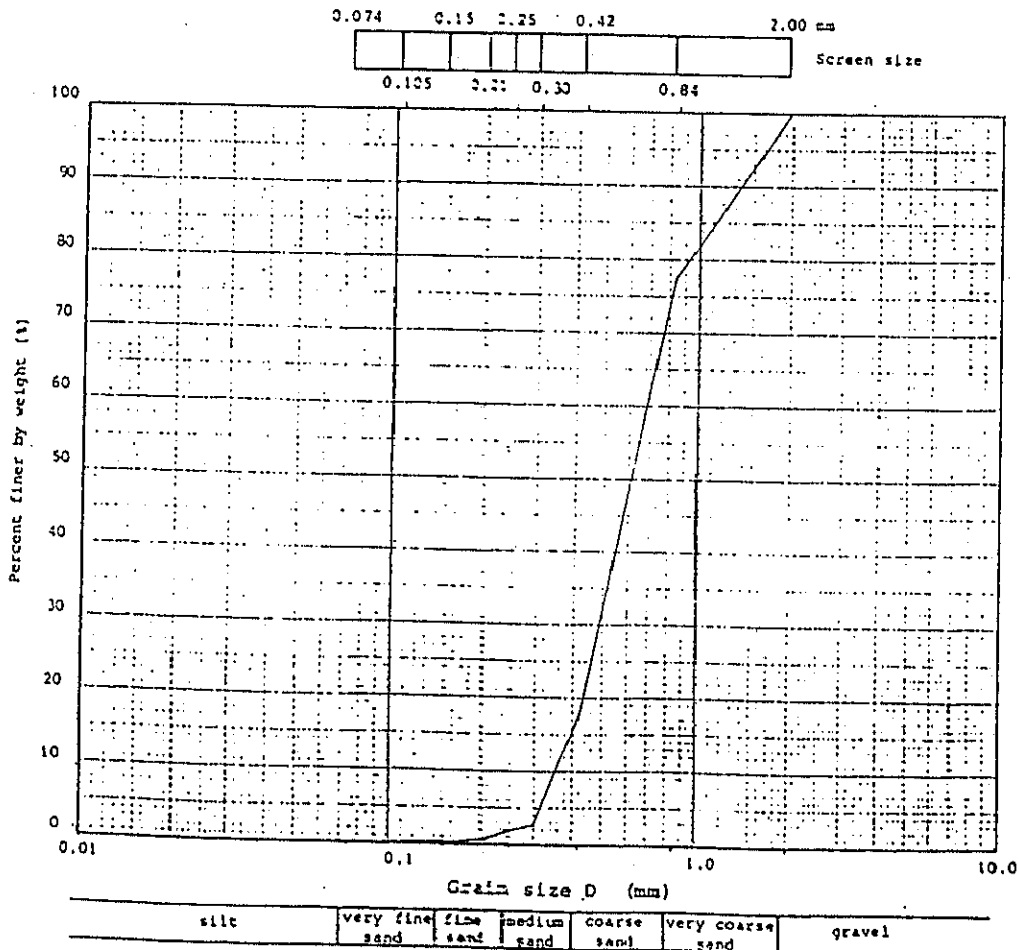
Sample No. 38 B
 Name of sample Bali Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	45.2	77.4
0.42	120.4	17.2
0.30	28.9	2.75
0.25	1.4	2.05
0.21	2.45	0.825
0.15	1.45	0.1
0.105	0.15	0.025
0.074	0.05	0
	0	-

Very coarse sand (2.00-0.84mm) %	22.6
Coarse sand (0.84-0.42mm) %	60.2
Medium sand (0.42-0.25mm) %	15.15
Fine sand (0.25-0.15mm) %	1.95
Very fine sand (0.15-0.074mm) %	0.1
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	0.69
30% grain size mm	0.49
10% grain size mm	0.35
Coefficient of uniformity U_c	1.971
Coefficient of curvature U_c'	0.994

Grain size accumulation curve



App. 3.56

Grain Size Analysis

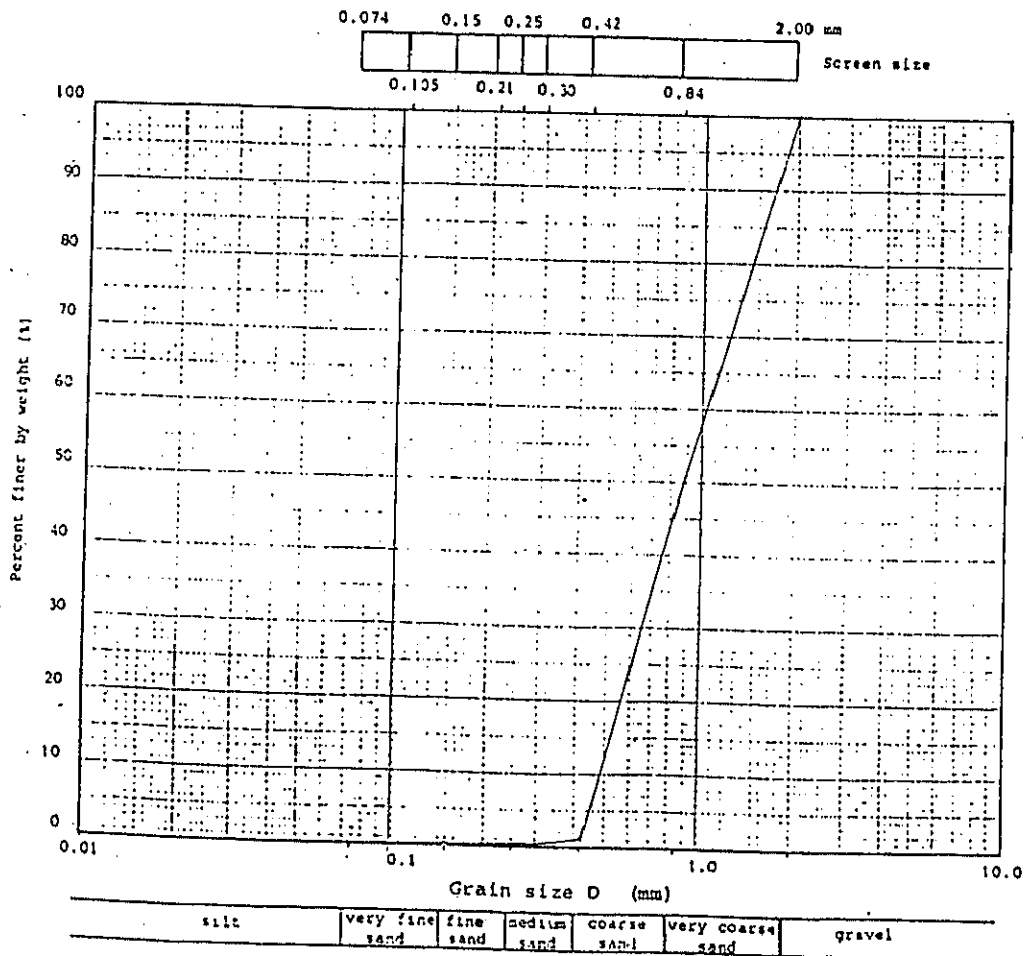
Sample No. 39 A
 Name of sample Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	104.8	47.6
0.42	92.7	1.25
0.30	2.15	0.175
0.25	0.10	0.125
0.21	0.15	0.05
0.15	0.05	0.025
0.105	0.05	0
0.074	0	0
	0	-

Very coarse sand (2.00-0.84mm) %	52.4
Coarse sand (0.84-0.42mm) %	46.35
Medium sand (0.42-0.25mm) %	1.125
Fine sand (0.25-0.15mm) %	0.10
Very fine sand (0.15-0.074mm) %	0.025
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	1.015
30% grain size mm	0.65
10% grain size mm	0.48
Coefficient of uniformity U_c	2.115
Coefficient of curvature U_c'	0.857

Grain size accumulation curve



App. 3.57

Grain Size Analysis

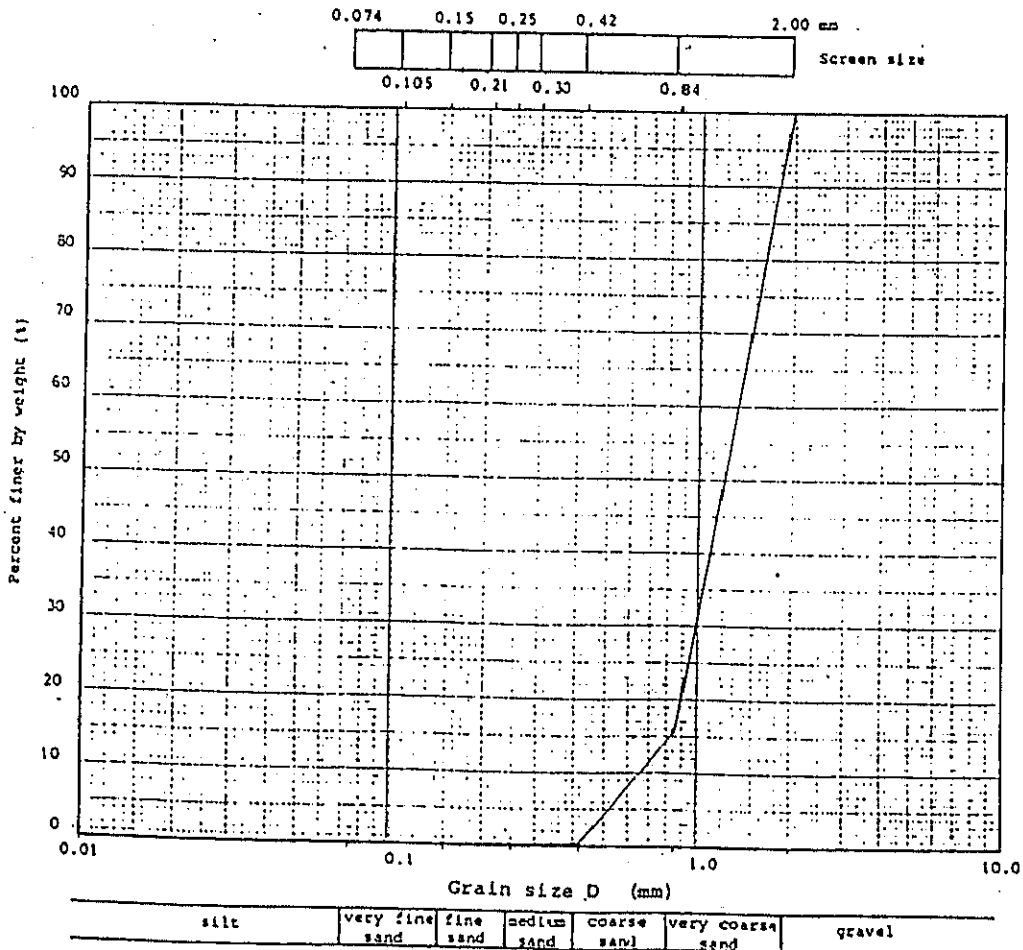
Sample No. 39 B
 Name of sample Bali Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	168.65	15.675
0.42	30.9	0.225
0.30	0.3	0.075
0.25	0.05	0.05
0.21	-	-
0.15	0.05	0.025
0.105	-	-
0.074	0.05	0
	0	-

Very coarse sand (2.00-0.84mm) %	84.325
Coarse sand (0.84-0.42mm) %	15.45
Medium sand (0.42-0.25mm) %	0.175
Fine sand (0.25-0.15mm) %	0.025
Very fine sand (0.15-0.074mm) %	0.025
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	1.310
30% grain size mm	0.99
10% grain size mm	0.65
Coefficient of uniformity U _c	2.015
Coefficient of curvature U _{c'}	1.151

Grain size accumulation curve



App.3.58

Grain Size Analysis

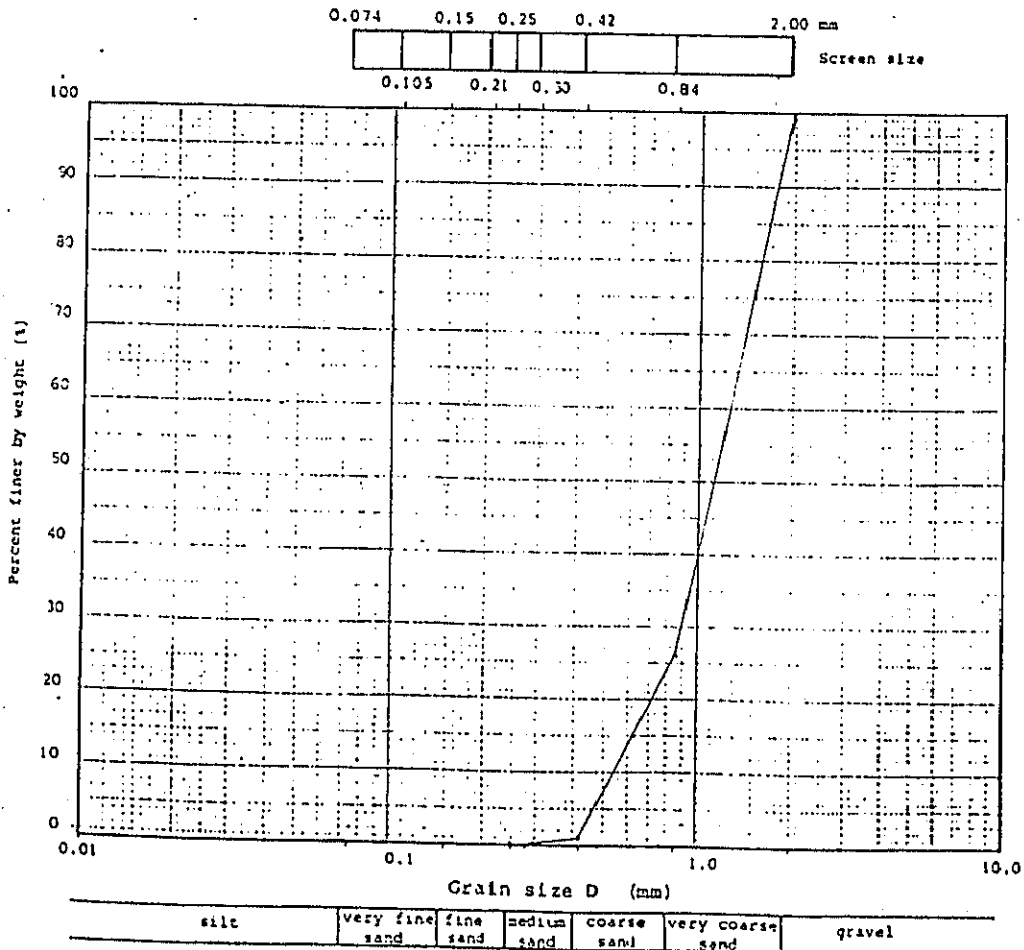
Sample No. 40 A
 Name of sample Bali Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	147.6	26.20
0.42	50.05	1.175
0.30	2.0	0.175
0.25	0.35	0
0.21	0	0
0.15	0	0
0.105	0	0
0.074	0	0
	0	-

Very coarse sand (2.00-0.84mm) %	73.8
Coarse sand (0.84-0.42mm) %	25.025
Medium sand (0.42-0.25mm) %	1.175
Fine sand (0.25-0.15mm) %	0
Very fine sand (0.15-0.074mm) %	0
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	1.27
30% grain size mm	0.89
10% grain size mm	0.54
Coefficient of uniformity U_c	2.352
Coefficient of curvature U_c'	1.155

Grain size accumulation curve



App.3.59

Grain Size Analysis

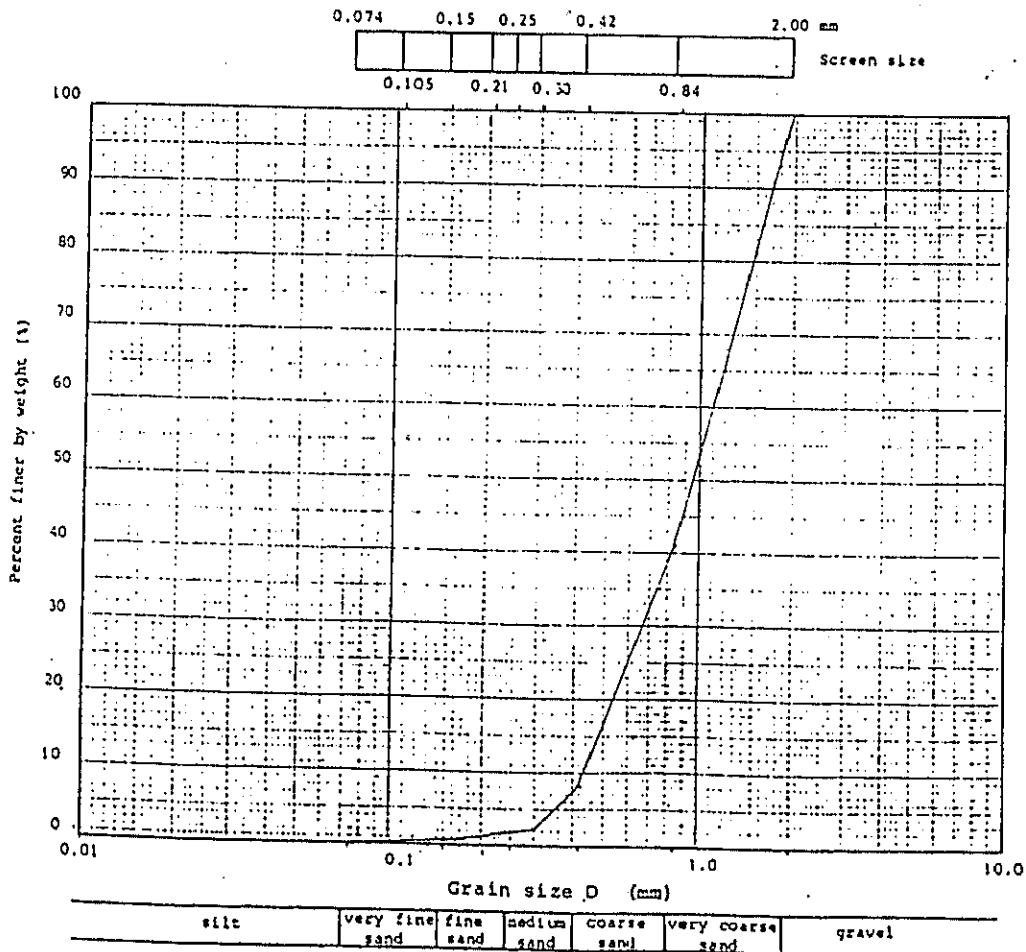
Sample No. 40 B
 Name of sample Bali Beach Sand
 Locality Nisa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	117.95	41.025
0.42	65.35	8.35
0.30	11.85	2.425
0.25	1.00	1.225
0.21	1.35	1.25
0.15	1.20	0.65
0.105	0.65	0.325
0.074	0.5	0.075
	0.15	-

Very coarse sand (2.00-0.84mm) %	58.975
Coarse sand (0.84-0.42mm) %	32.675
Medium sand (0.42-0.25mm) %	6.425
Fine sand (0.25-0.15mm) %	1.275
Very fine sand (0.15-0.074mm) %	0.575
Silt or clay (under 0.074mm) %	0.075
Maximum grain size mm	0.84
60% grain size mm	1.1
30% grain size mm	0.67
10% grain size mm	0.43
Coefficient of uniformity U_c	2.558
Coefficient of curvature U_c'	0.949

Grain size accumulation curve



App. 3.60

Grain Size Analysis

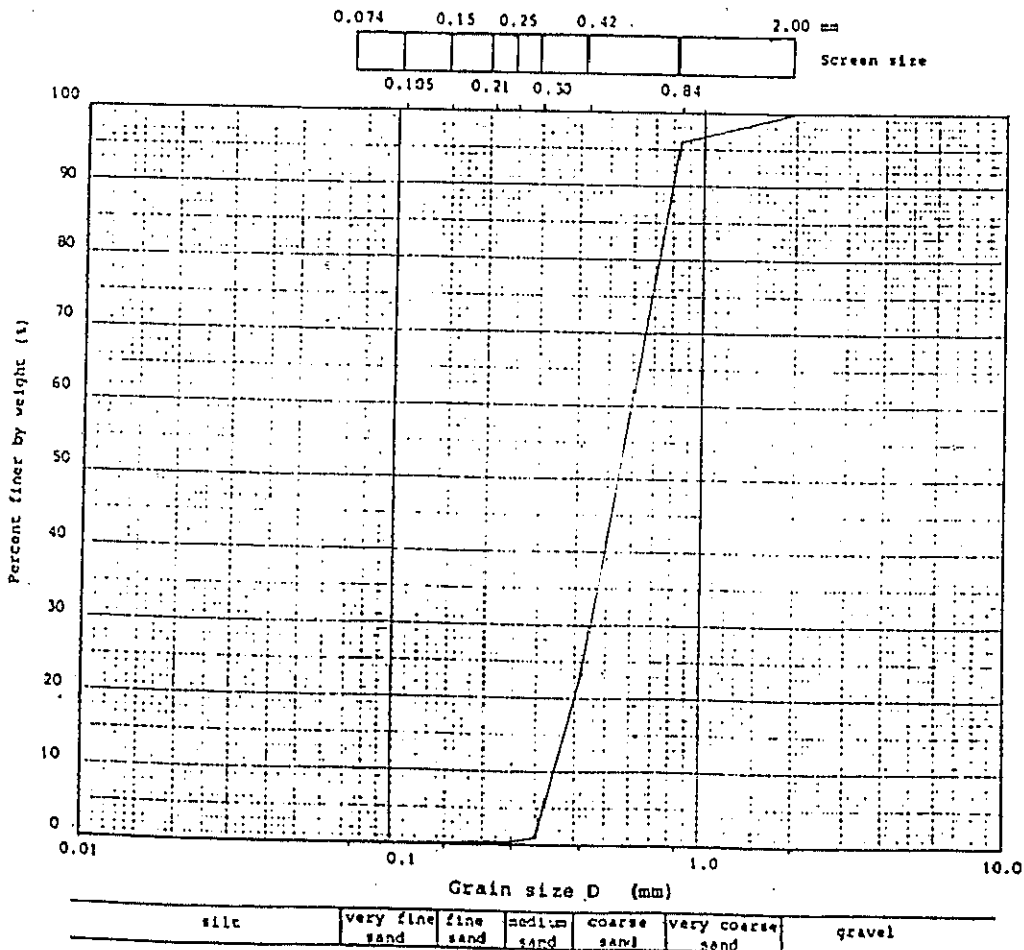
Sample No. 41 A
 Name of sample Bali Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	7.4	96.3
0.42	145.85	23.375
0.30	44.55	1.10
0.25	0.9	0.65
0.21	0.85	0.225
0.15	0.35	0.05
0.105	0.05	0.025
0.074	0.05	0
	0	-

Very coarse sand (2.00-0.84mm) %	3.7
Coarse sand (0.84-0.42mm) %	72.925
Medium sand (0.42-0.25mm) %	22.725
Fine sand (0.25-0.15mm) %	0.6
Very fine sand (0.15-0.074mm) %	0.05
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	0.6
30% grain size mm	0.44
10% grain size mm	0.34
Coefficient of uniformity U_c	1.765
Coefficient of curvature U_c'	0.949

Grain size accumulation curve



App.3.61

Grain Size Analysis

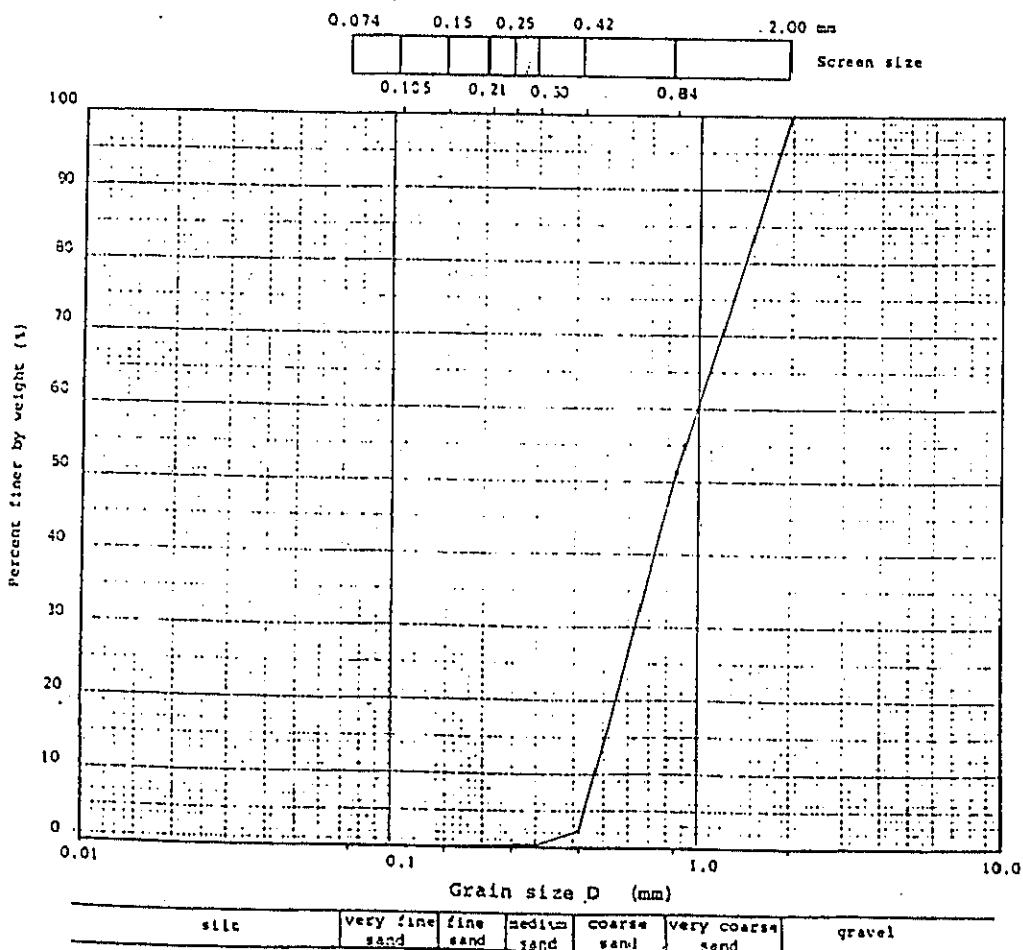
Sample No. 41 B
 Name of sample Bali Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	97.25	51.375
0.42	98.25	2.25
0.30	4.1	0.20
0.25	0.25	0.075
0.21	-	-
0.15	0.1	0.025
0.105	-	-
0.074	0.05	0
	0	-

Very coarse sand (2.00-0.84mm) %	48.625
Coarse sand (0.84-0.42mm) %	49.125
Medium sand (0.42-0.25mm) %	2.175
Fine sand (0.25-0.15mm) %	0.05
Very fine sand (0.15-0.074mm) %	0.025
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	0.99
30% grain size mm	0.63
10% grain size mm	0.47
Coefficient of uniformity U_c	2.106
Coefficient of curvature U_c'	0.853

Grain size accumulation curve



Grain Size Analysis

Sample No. 42 A

Date _____

Name of sample Pali Beach Sand

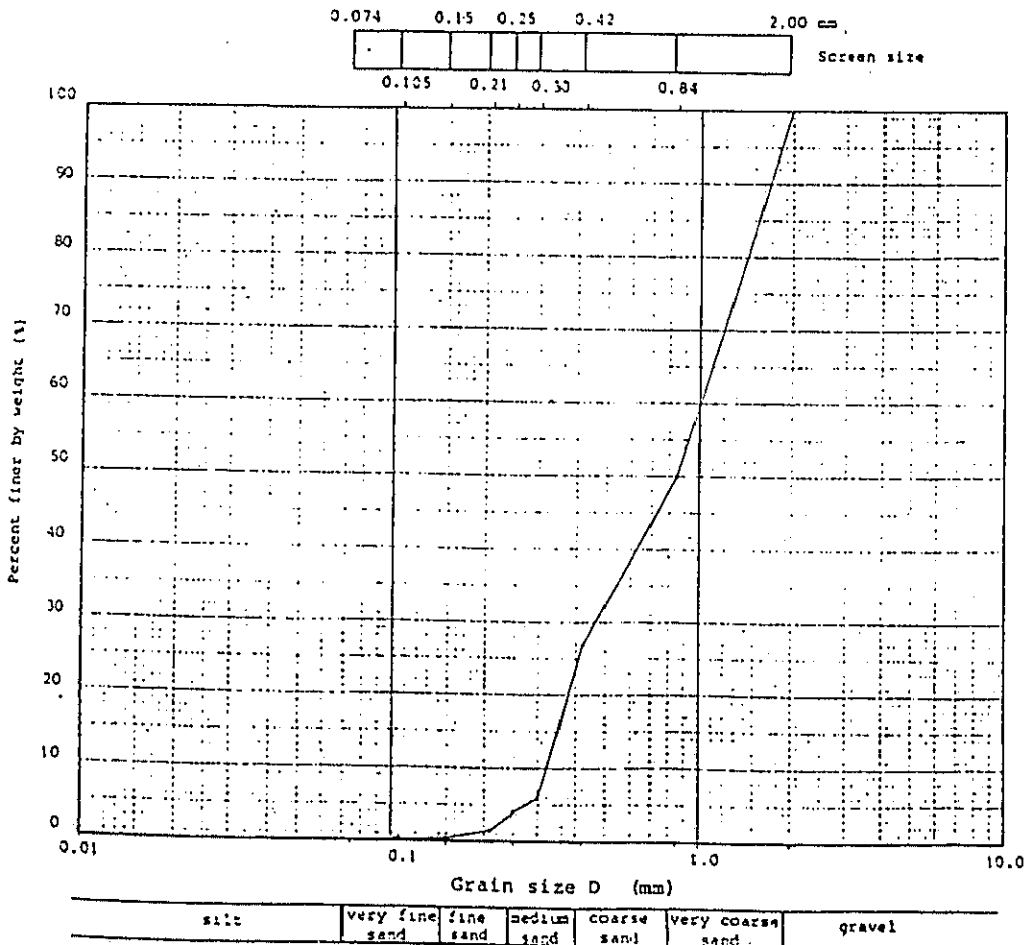
Signature _____

Locality Nusa Dua Beach

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	99.6	50.2
0.42	46.6	26.9
0.30	41.85	5.975
0.25	3.25	4.35
0.21	5.8	1.45
0.15	2.0	0.45
0.105	0.15	0.375
0.074	0.05	0.35
	0.7	-

Very coarse sand (2.00-0.84mm) %	49.8
Coarse sand (0.84-0.42mm) %	23.3
Medium sand (0.42-0.25mm) %	22.55
Fine sand (0.25-0.15mm) %	3.9
Very fine sand (0.15-0.074mm) %	0.1
Silt or clay (under 0.074mm) %	0.35
Maximum grain size mm	0.84
60% grain size mm	1.0
30% grain size mm	0.46
10% grain size mm	0.32
Coefficient of uniformity U_c	3.125
Coefficient of curvature U_c'	0.661

Grain size accumulation curve



App.3.63

Grain Size Analysis

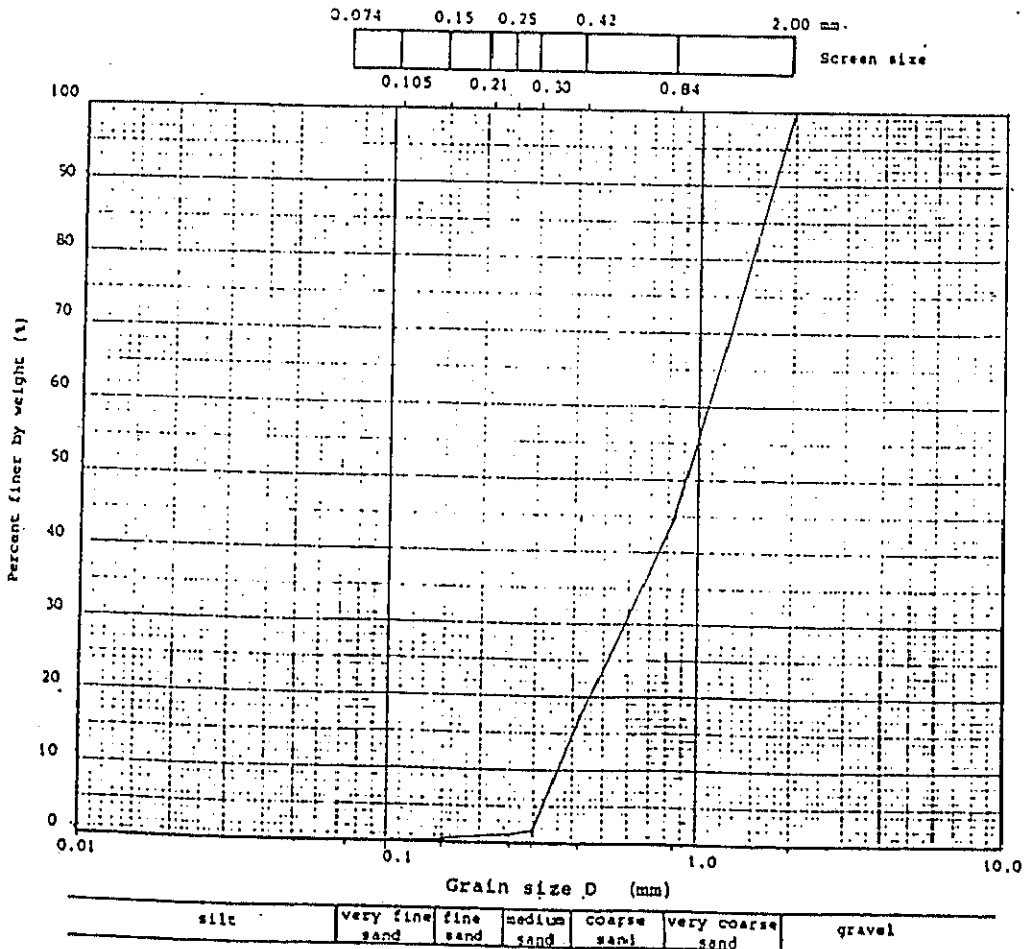
Sample No. 42 B
 Name of sample Bali Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	110.55	44.725
0.42	54.55	17.45
0.30	32.0	1.45
0.25	0.7	1.1
0.21	0.6	0.8
0.15	1.15	0.225
0.105	0.40	0.025
0.074	0.05	0
	0	-

Very coarse sand (2.00-0.84mm) %	55.275
Coarse sand (0.84-0.42mm) %	27.275
Medium sand (0.42-0.25mm) %	16.35
Fine sand (0.25-0.15mm) %	0.875
Very fine sand (0.15-0.074mm) %	0.225
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	1.07
30% grain size mm	0.58
10% grain size mm	0.36
Coefficient of uniformity U_c	2.972
Coefficient of curvature U_c'	0.873

Grain size accumulation curve



App.3.64

Grain Size Analysis

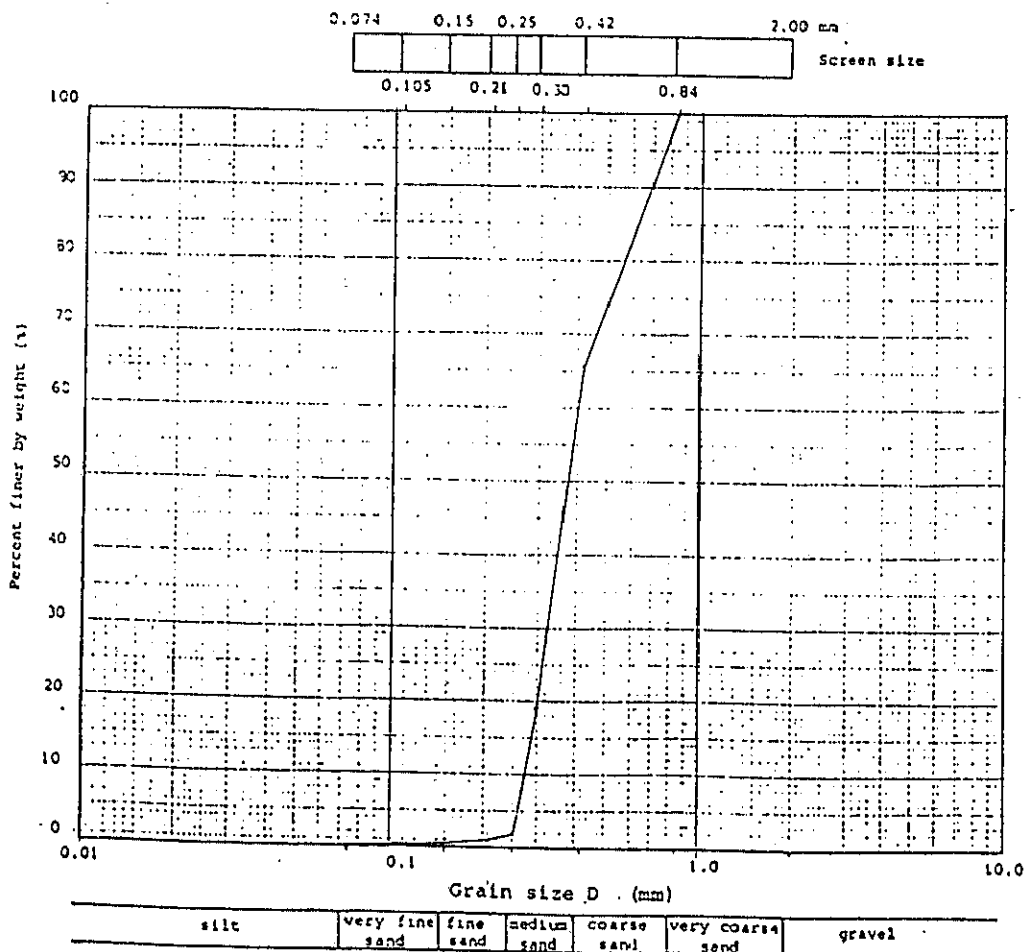
Sample No. 43 A
 Name of sample Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	0	100
0.42	68.85	65.575
0.30	92.95	19.1
0.25	34.55	1.825
0.21	1.45	1.1
0.15	1.45	0.375
0.105	0.6	0.075
0.074	0	0.075
	0.15	-

Very coarse sand (2.00-0.84mm) %	0
Coarse sand (0.84-0.42mm) %	34.425
Medium sand (0.42-0.25mm) %	63.75
Fine sand (0.25-0.15mm) %	1.45
Very fine sand (0.15-0.074mm) %	0.30
Silt or clay (under 0.074mm) %	0.075
Maximum grain size mm	0.42
60% grain size mm	0.40
30% grain size mm	0.325
10% grain size mm	0.275
Coefficient of uniformity U_c	1.455
Coefficient of curvature U_c'	0.960

Grain size accumulation curve



App.3.65

Grain Size Analysis

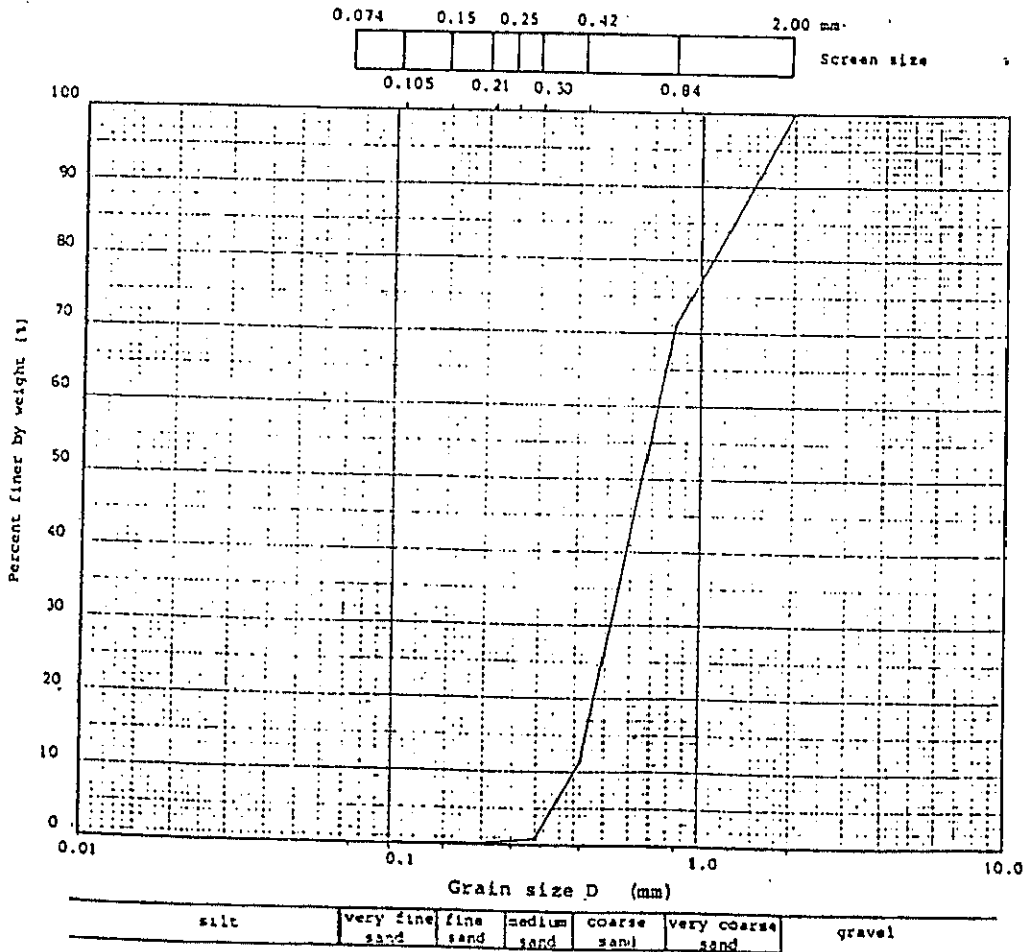
Sample No. 43 B
 Name of sample Bali Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	57.4	71.3
0.42	119.5	11.55
0.30	21.25	0.925
0.25	0.9	0.475
0.21	0.65	0.15
0.15	0.25	0.025
0.105	0.05	0
0.074	0	
	0	-

Very coarse sand (2.00-0.84mm) %	28.7
Coarse sand (0.84-0.42mm) %	59.75
Medium sand (0.42-0.25mm) %	11.075
Fine sand (0.25-0.15mm) %	0.45
Very fine sand (0.15-0.074mm) %	0.025
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	0.72
30% grain size mm	0.52
10% grain size mm	0.4
Coefficient of uniformity U_c	1.800
Coefficient of curvature U_c'	0.939

Grain size accumulation curve



App.3.66

Grain Size Analysis

Sample No. 44 A

Date _____

Name of sample Bali Beach Sand

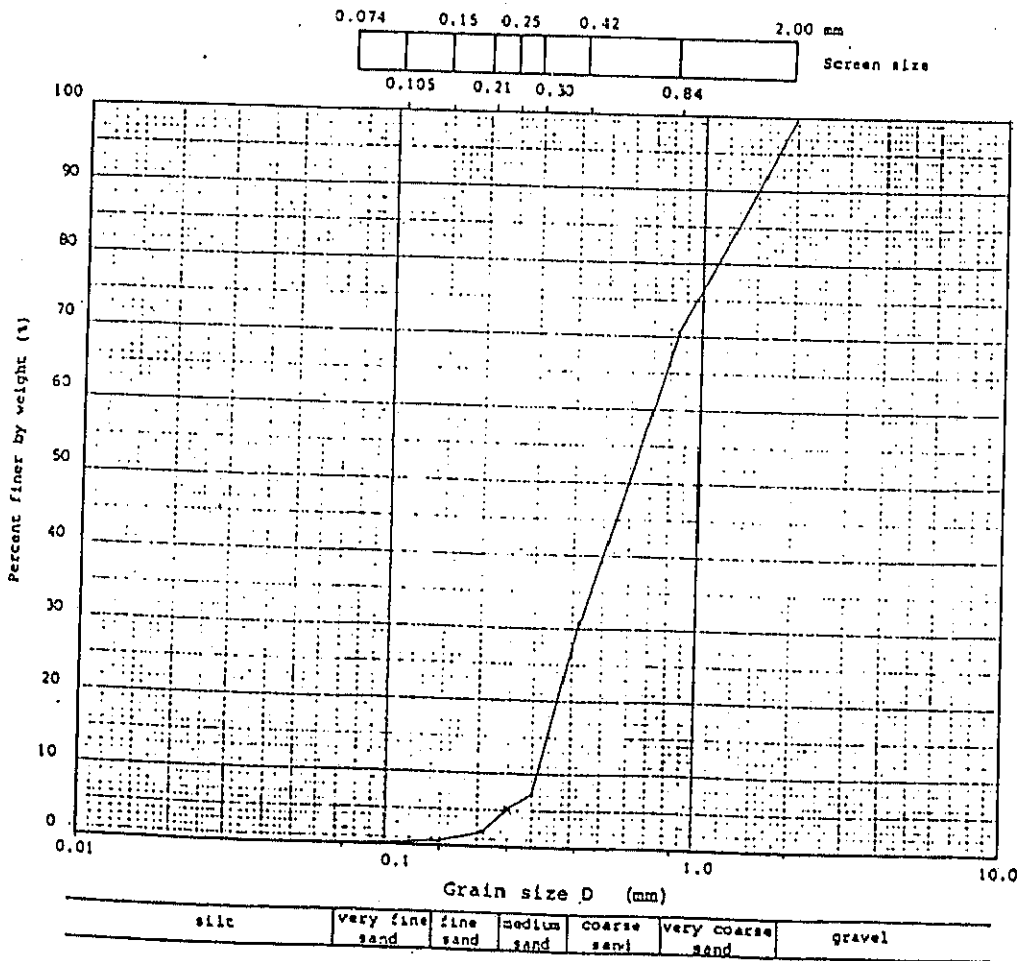
Signature _____

Locality Nusa Dua Beach

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	58.75	70.625
0.42	79.5	30.875
0.30	47.4	7.175
0.25	3.5	5.425
0.21	7.0	1.925
0.15	3.0	0.425
0.105	0.6	0.125
0.074	0.25	0
	0	-

Very coarse sand (2.00-0.84mm) %	29.375
Coarse sand (0.84-0.42mm) %	39.75
Medium sand (0.42-0.25mm) %	25.45
Fine sand (0.25-0.15mm) %	5.0
Very fine sand (0.15-0.074mm) %	0.425
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	0.71
30% grain size mm	0.41
10% grain size mm	0.31
Coefficient of uniformity U_c	2.290
Coefficient of curvature U_c'	0.764

Grain size accumulation curve



App.3.67

Grain Size Analysis

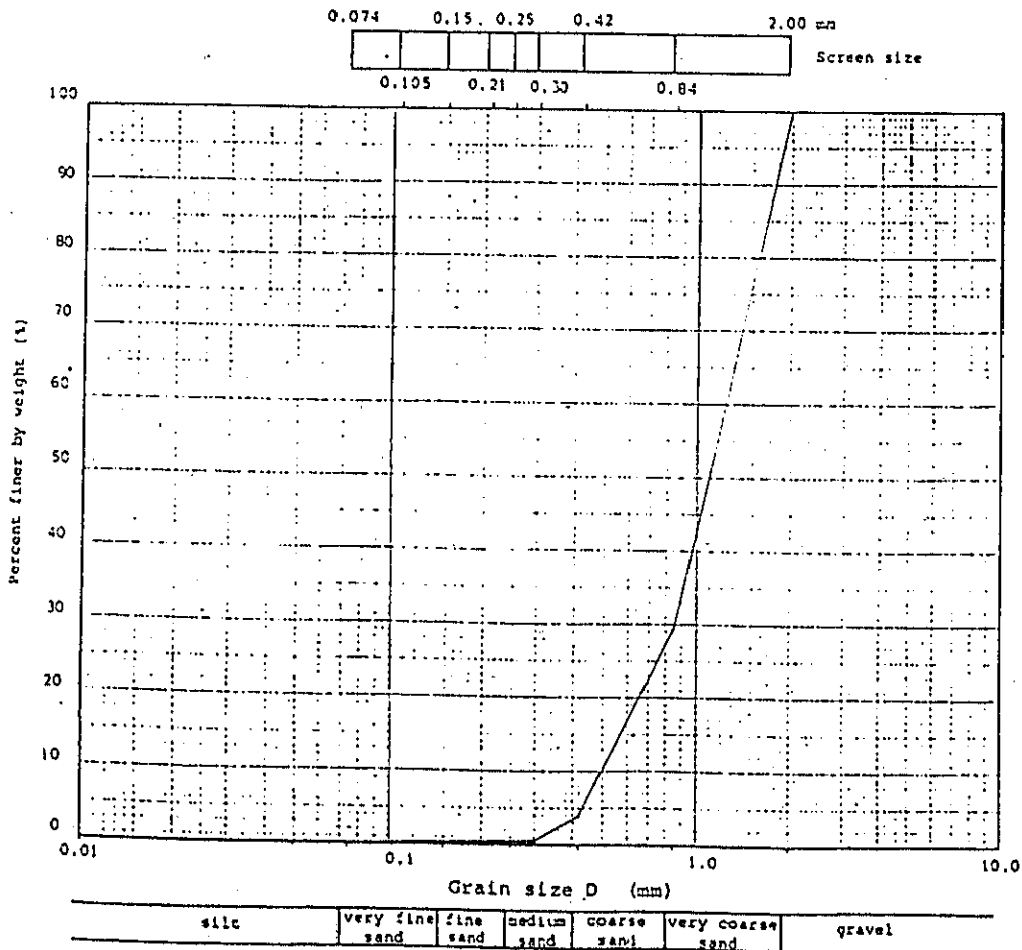
Sample No. 44 B
 Name of sample Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size. (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	141.15	29.425
0.42	51.1	3.875
0.30	7.1	0.325
0.25	0.25	0.2
0.21	0.15	0.125
0.15	0.2	0.025
0.105	-	-
0.074	0.05	0
	0	-

Very coarse sand (2.00-0.84mm) %	70.575
Coarse sand (0.84-0.42mm) %	25.55
Medium sand (0.42-0.25mm) %	3.675
Fine sand (0.25-0.15mm) %	0.175
Very fine sand (0.15-0.074mm) %	0.025
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	1.23
30% grain size mm	0.86
10% grain size mm	0.49
Coefficient of uniformity U_c	2.51
Coefficient of curvature U_c'	1.227

Grain size accumulation curve



App. 3.68

Grain Size Analysis

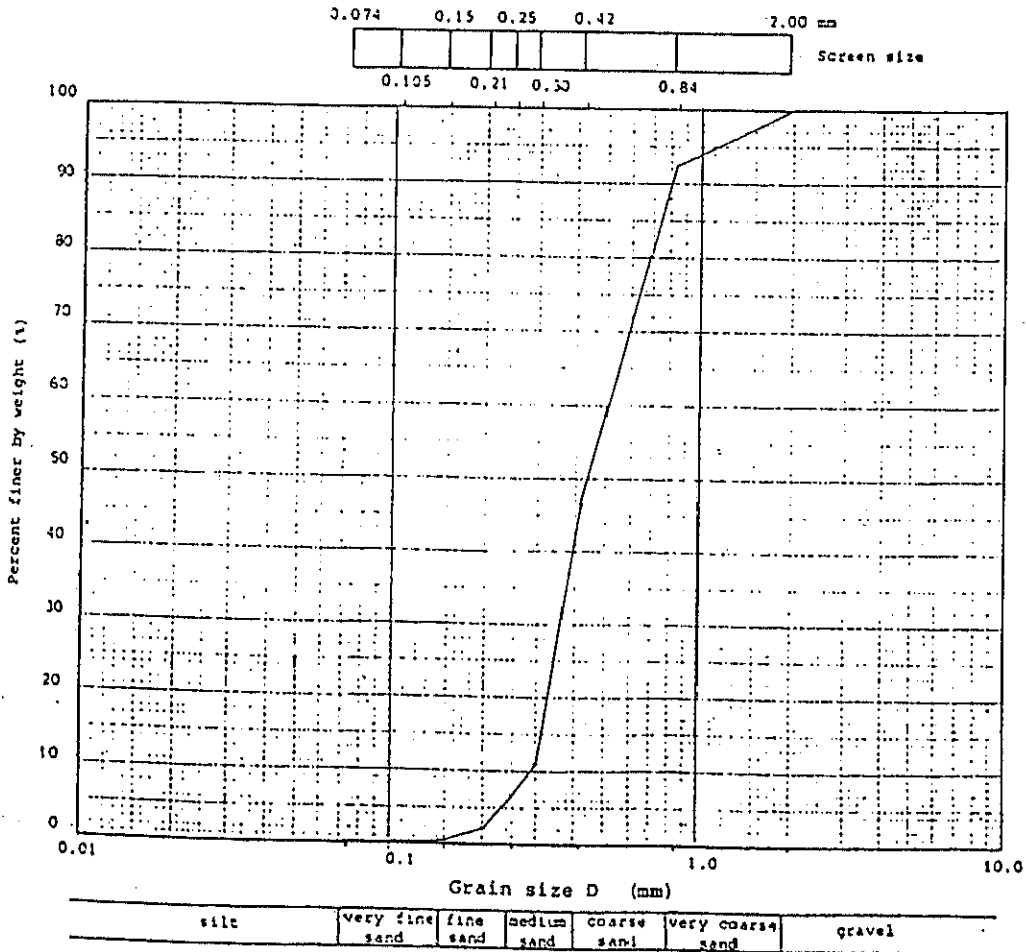
Sample No. 45 A
 Name of sample Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	14.86	92.57
0.42	91.80	46.67
0.30	73.06	10.14
0.25	6.70	6.79
0.21	9.26	2.16
0.15	3.50	0.41
0.105	0.50	0.16
0.074	0.10	0.11
	0.22	-

Very coarse sand (2.00-0.84mm) %	7.43
Coarse sand (0.84-0.42mm) %	45.90
Medium sand (0.42-0.25mm) %	39.88
Fine sand (0.25-0.15mm) %	6.38
Very fine sand (0.15-0.074mm) %	0.30
silt or clay (under 0.074mm) %	0.11
Maximum grain size mm	0.84
60% grain size mm	0.51
30% grain size mm	0.35
10% grain size mm	0.285
Coefficient of uniformity U_c	1.790
Coefficient of curvature U_c'	0.843

Grain size accumulation curve



App.3.69

Grain Size Analysis

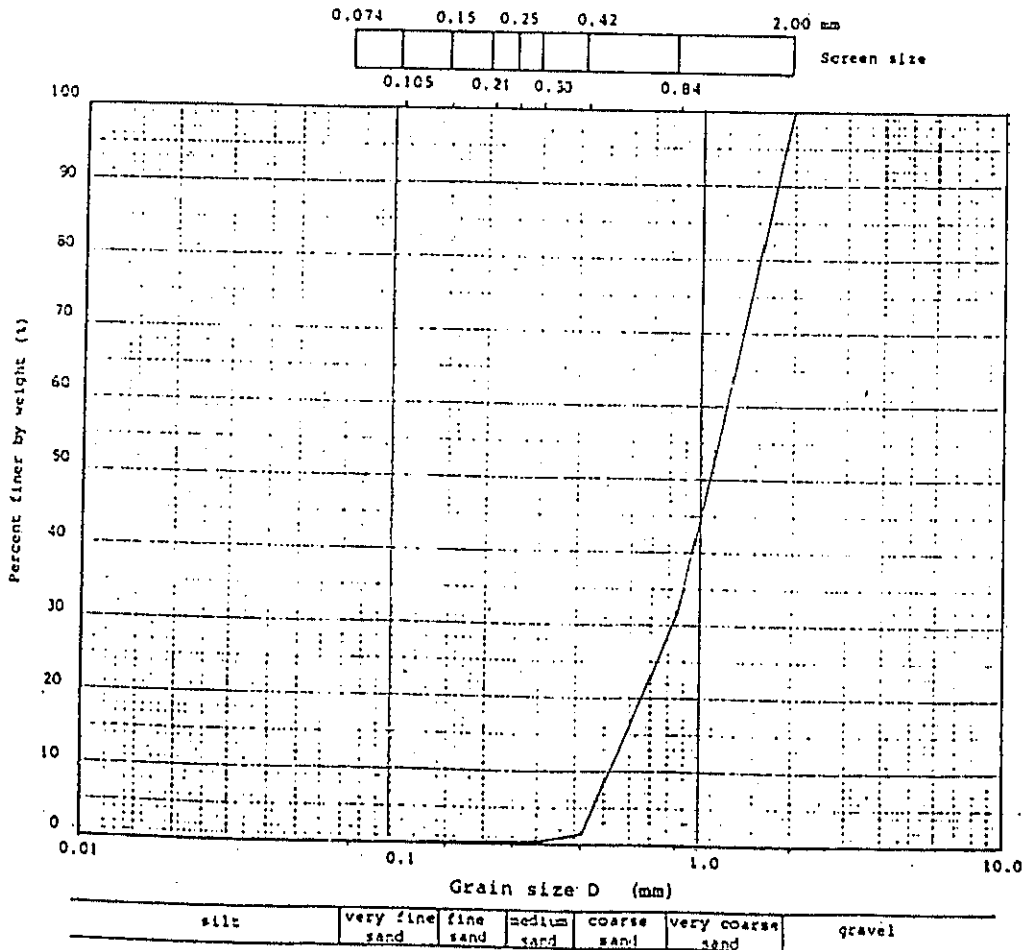
Sample No. 115 B
 Name of sample Bali Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	136.1	31.95
0.42	60.35	1.775
0.30	3.15	0.28
0.25	0.15	0.125
0.21	0.10	0.075
0.15	0.05	0.05
0.105	0.05	0.025
0.074	0.05	0
	0	-

Very coarse sand (2.00-0.84mm) %	68.05
Coarse sand (0.84-0.42mm) %	30.175
Medium sand (0.42-0.25mm) %	1.65
Fine sand (0.25-0.15mm) %	0.075
Very fine sand (0.15-0.074mm) %	0.05
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	1.2
30% grain size mm	0.82
10% grain size mm	0.51
Coefficient of uniformity U_c	2.353
Coefficient of curvature U_c'	1.099

Grain size accumulation curve



App.3.70

Grain Size Analysis

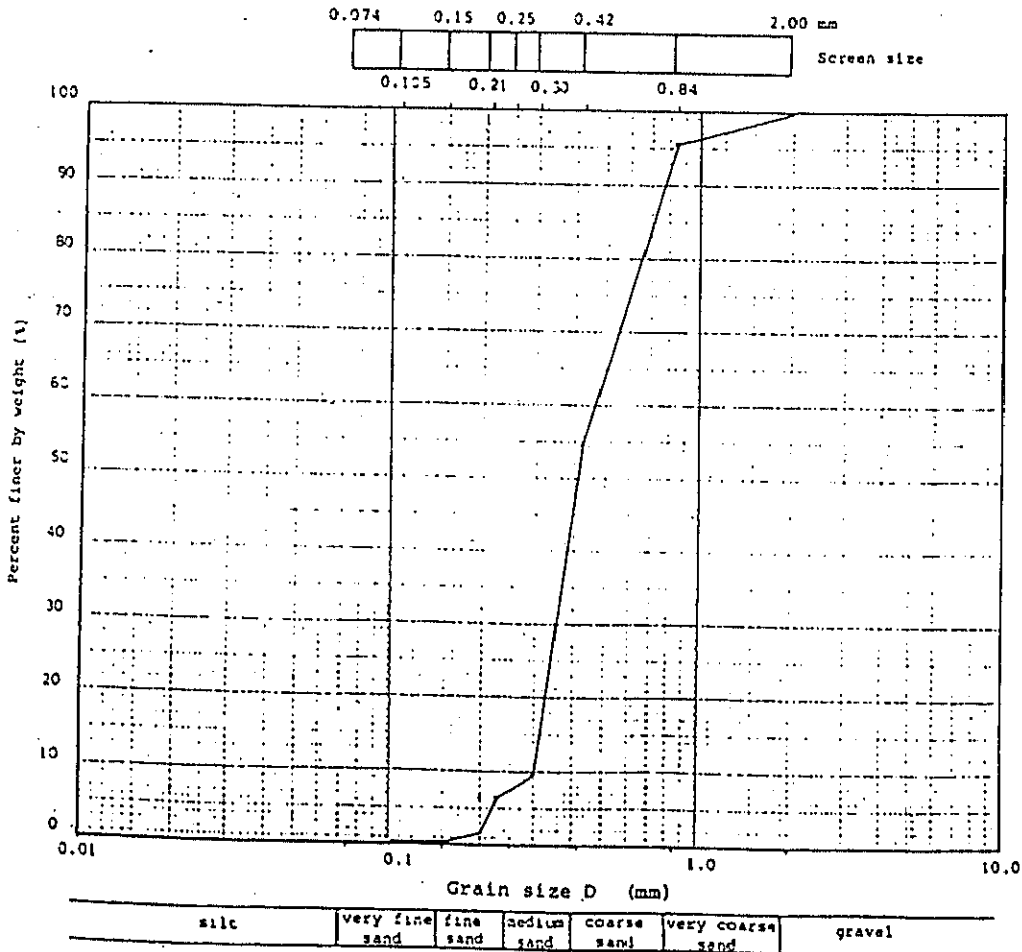
Sample No. 46 A
 Name of sample Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	8.45	95.775
0.42	83.0	54.275
0.30	88.8	9.875
0.25	6.9	6.425
0.21	9	1.925
0.15	3.55	0.15
0.105	0.2	0.05
0.074	0.1	0
	0	-

Very coarse sand (2.00-0.84mm) %	4.225
Coarse sand (0.84-0.42mm) %	41.5
Medium sand (0.42-0.25mm) %	47.85
Fine sand (0.25-0.15mm) %	6.275
Very fine sand (0.15-0.074mm) %	0.15
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	0.46
30% grain size mm	0.36
10% grain size mm	0.305
Coefficient of uniformity U_c	1.508
Coefficient of curvature U_c'	0.924

Grain size accumulation curve



App.3.71

Grain Size Analysis

Sample No. 46 B

Date _____

Name of sample Beach Sand

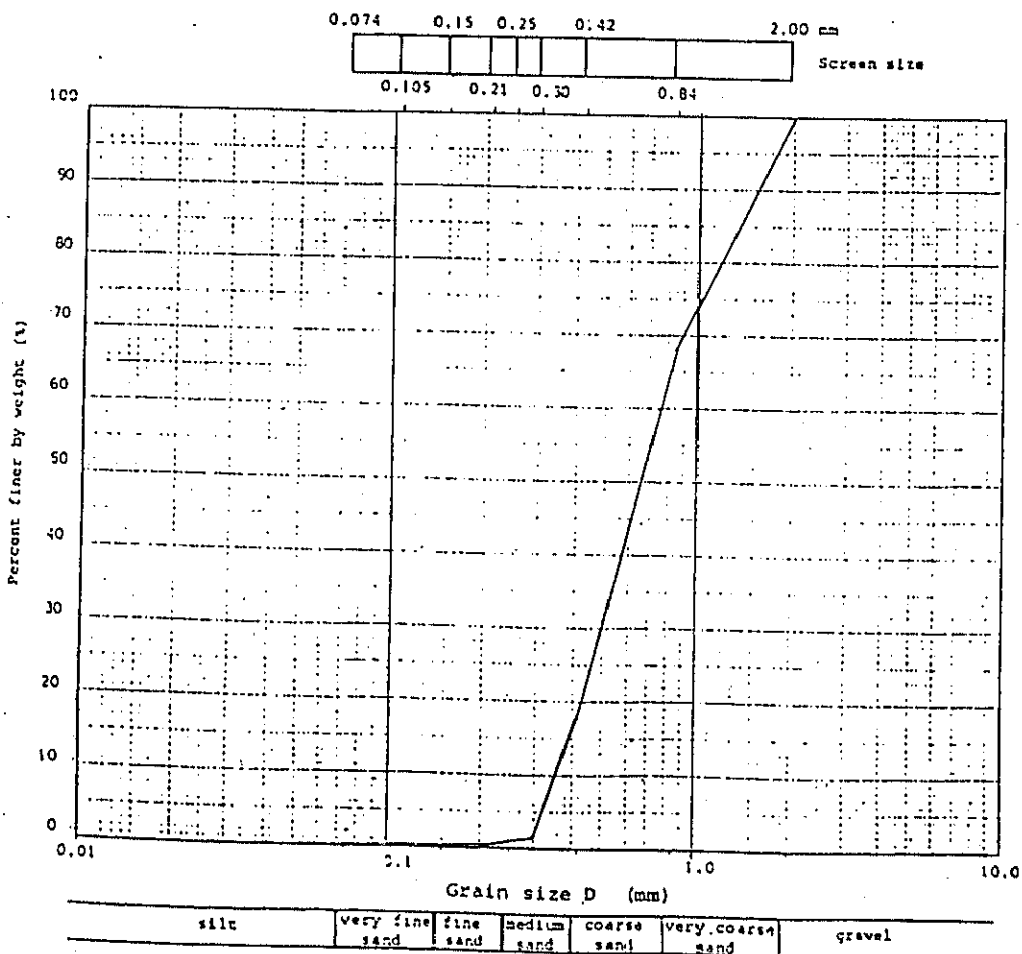
Signature _____

Locality Nusa Dua Beach

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	63.85	68.075
0.42	100.45	17.85
0.30	32.60	1.55
0.25	1.05	1.025
0.21	1.25	0.4
0.15	0.5	0.15
0.105	0.05	0.125
0.074	0.05	0.10
	0.20	-

Very coarse sand (2.00-0.84mm) %	31.925
Coarse sand (0.84-0.42mm) %	50.225
Medium sand (0.42-0.25mm) %	16.825
Fine sand (0.25-0.15mm) %	0.875
Very fine sand (0.15-0.074mm) %	0.05
Silt or clay (under 0.074mm) %	0.10
Maximum grain size mm	0.84
60% grain size mm	0.73
30% grain size mm	0.49
10% grain size mm	0.35
Coefficient of uniformity U_c	2.09
Coefficient of curvature U_c'	0.94

Grain size accumulation curve



App. 3.72

Grain Size Analysis

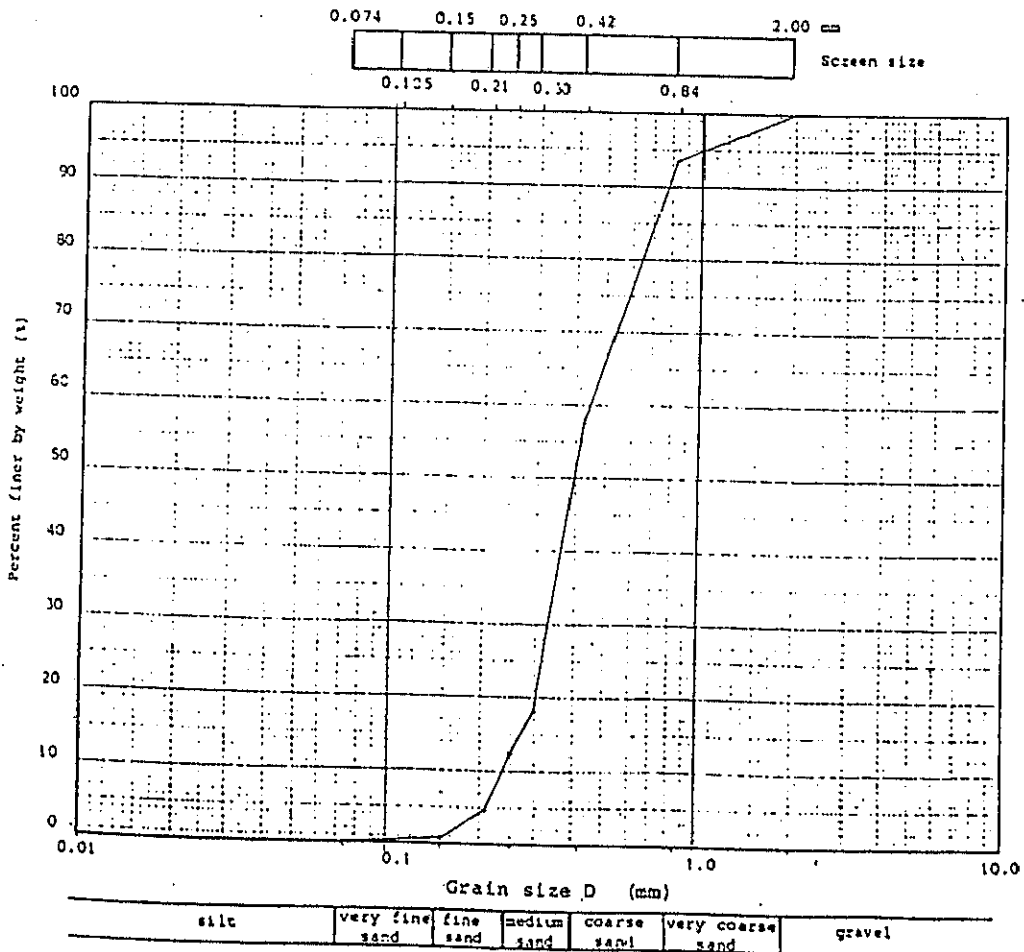
Sample No. 47 A
 Name of sample Bali Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	12.65	93.675
0.42	71.85	57.75
0.30	79.25	18.125
0.25	11.25	12.5
0.21	15.65	4.675
0.15	7.55	0.9
0.105	1.40	0.2
0.074	0.35	0.025
	0.05	-

Very coarse sand (2.00-0.84mm) %	6.325
Coarse sand (0.84-0.42mm) %	35.925
Medium sand (0.42-0.25mm) %	45.25
Fine sand (0.25-0.15mm) %	11.6
Very fine sand (0.15-0.074mm) %	0.875
Silt or clay (under 0.074mm) %	0.025
Maximum grain size mm	0.84
60% grain size mm	0.44
30% grain size mm	0.33
10% grain size mm	0.235
Coefficient of uniformity U_c	1.872
Coefficient of curvature U_c'	1.053

Grain size accumulation curve



App.3.73

Grain Size Analysis

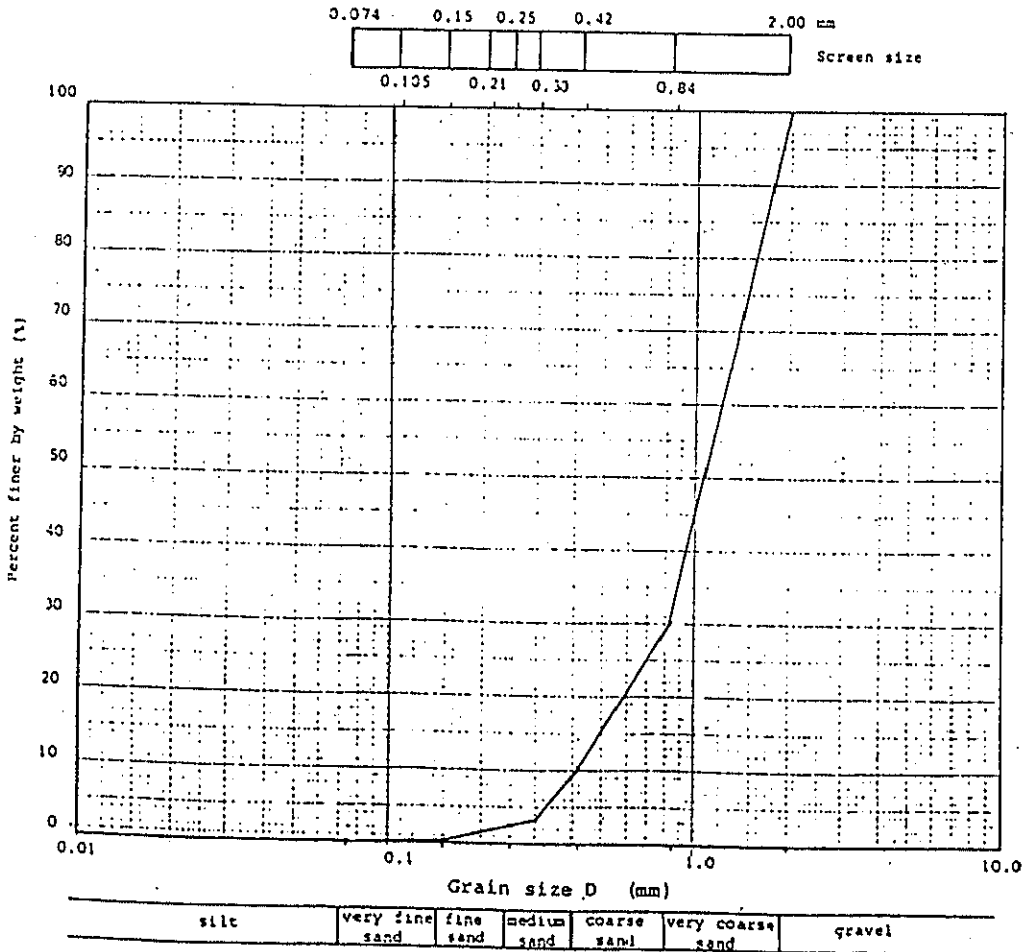
Sample No. 47 B
 Name of sample Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	139.4	30.3
0.42	39.65	10.475
0.30	14.25	3.35
0.25	1.5	2.6
0.21	3.05	1.575
0.15	1.9	0.125
0.105	0.15	0.05
0.074	0.05	0.025
	0.05	-

Very coarse sand (2.00-0.84mm) %	69.7
Coarse sand (0.84-0.42mm) %	19.825
Medium sand (0.42-0.25mm) %	7.875
Fine sand (0.25-0.15mm) %	2.475
Very fine sand (0.15-0.074mm) %	0.1
Silt or clay (under 0.074mm) %	0.025
Maximum grain size mm	0.84
60% grain size mm	1.20
30% grain size mm	0.82
10% grain size mm	0.42
Coefficient of uniformity U_c	2.86
Coefficient of curvature U_c'	1.334

Grain size accumulation curve



App. 3.74

Grain Size Analysis

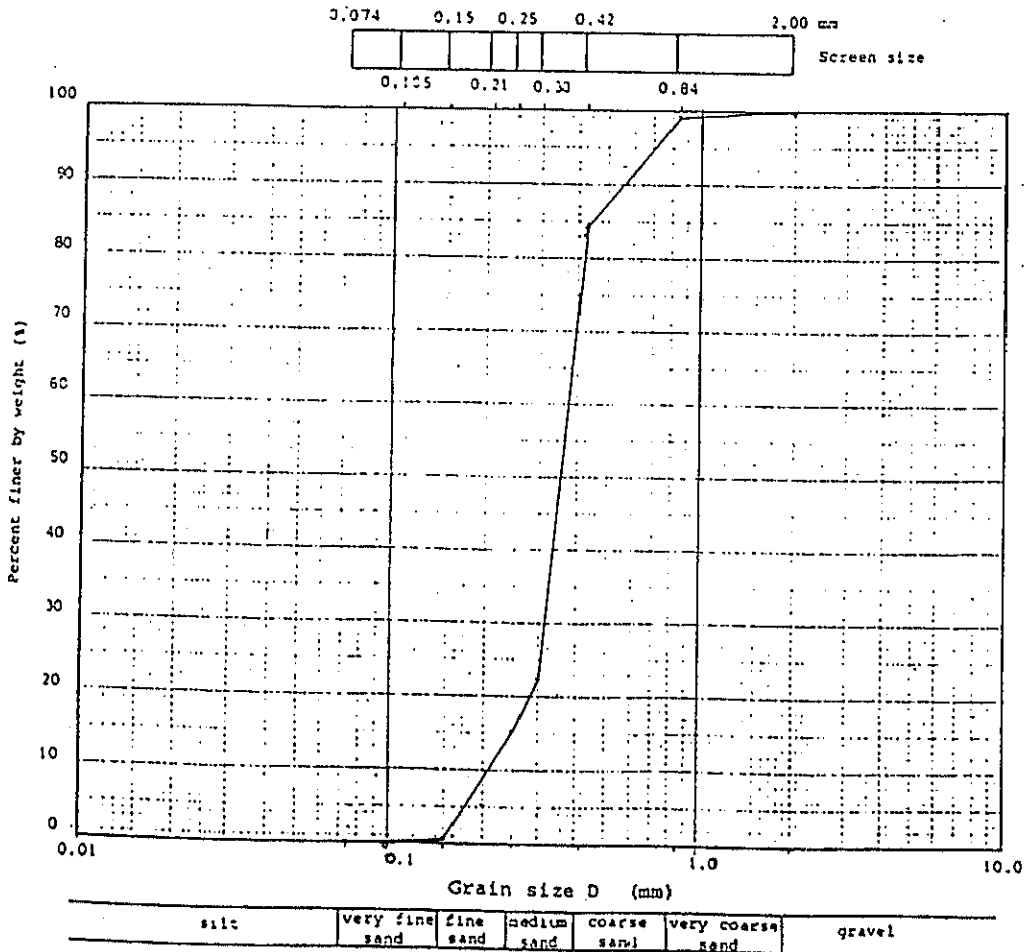
Sample No. 48 A
 Name of sample Bali Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	1.40	99.30
0.42	29.65	84.475
0.30	123.65	22.65
0.25	15.05	15.125
0.21	19.75	5.25
0.15	9.10	0.70
0.105	1.10	0.15
0.074	0.15	0.075
	0.15	-

Very coarse sand (2.00-0.84mm) %	0.70
Coarse sand (0.84-0.42mm) %	14.825
Medium sand (0.42-0.25mm) %	69.35
Fine sand (0.25-0.15mm) %	14.425
Very fine sand (0.15-0.074mm) %	0.625
Silt or clay (under 0.074mm) %	0.075
Maximum grain size mm	0.84
60% grain size mm	0.38
30% grain size mm	0.32
10% grain size mm	0.205
Coefficient of uniformity U_c	1.854
Coefficient of curvature U_c'	1.315

Grain size accumulation curve



App.3.75

Grain Size Analysis

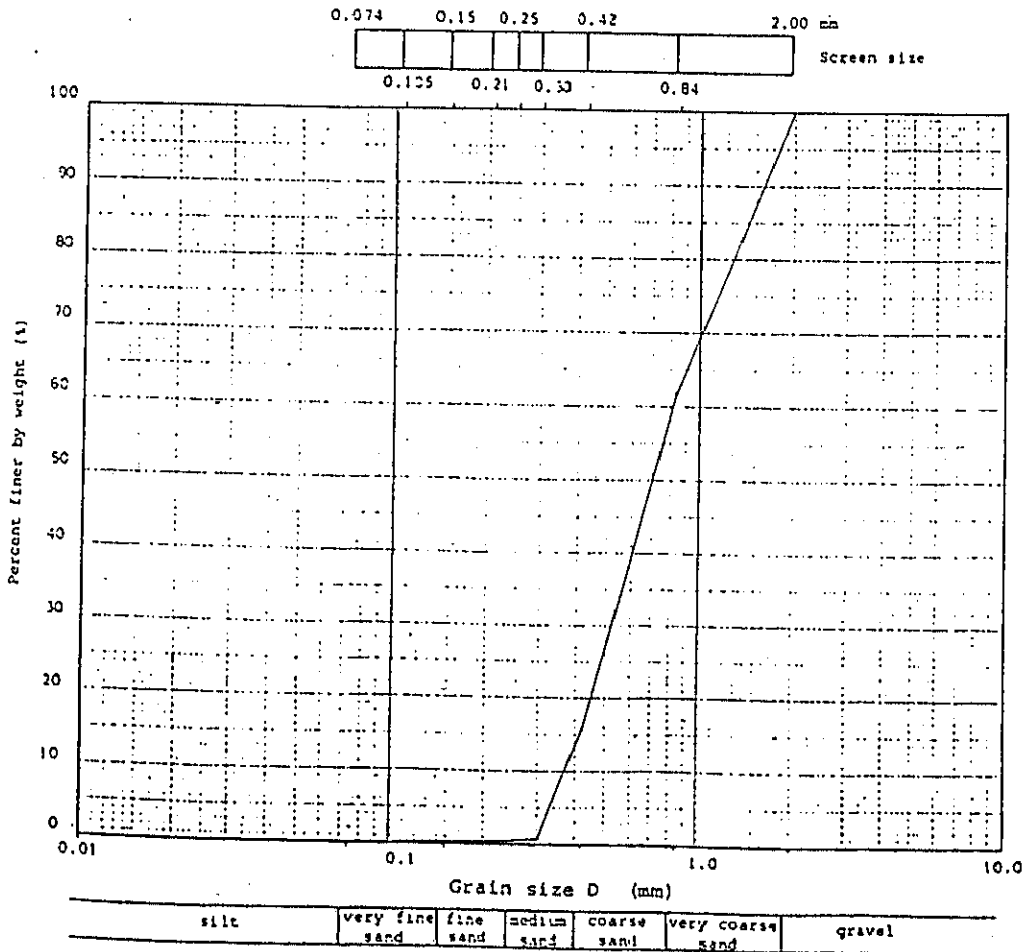
Sample No. 48 R
 Name of sample Pali Peach Sand
 Locality Nusa Dua Peach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	76.15	61.925
0.42	92.50	15.675
0.30	29.70	0.825
0.25	0.75	0.45
0.21	0.65	0.125
0.15	0.20	0.025
0.105	0.05	0
0.074	0	0
	0	-

Very coarse sand (2.00-0.84mm) %	38.075
Coarse sand (0.84-0.42mm) %	46.25
Medium sand (0.42-0.25mm) %	15.225
Fine sand (0.25-0.15mm) %	0.425
Very fine sand (0.15-0.074mm) %	0.025
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	0.81
30% grain size mm	0.52
10% grain size mm	0.37
Coefficient of uniformity U_c	2.189
Coefficient of curvature U_c'	0.902

Grain size accumulation curve



App. 3.76

Grain Size Analysis

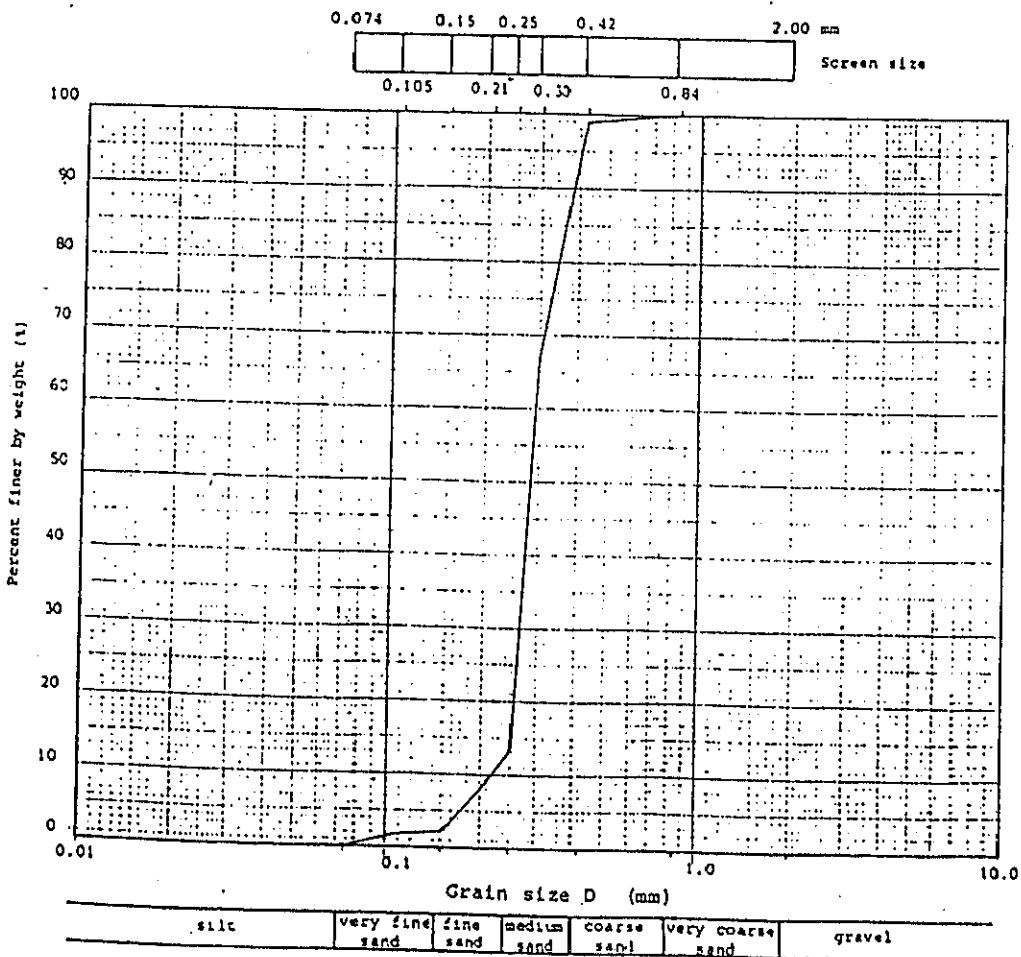
Sample No. 49 A
 Name of sample Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84		100
0.42	2.16	98.92
0.30	64.76	66.54
0.25	106.60	13.24
0.21	8.40	9.04
0.15	13.30	2.39
0.105	4.40	0.19
0.074	0.36	0.01
	0.02	-

Very coarse sand (2.00-0.84mm) %	
Coarse sand (0.84-0.42mm) %	1.08
Medium sand (0.42-0.25mm) %	85.68
Fine sand (0.25-0.15mm) %	10.85
Very fine sand (0.15-0.074mm) %	2.38
Silt or clay (under 0.074mm) %	0.01
Maximum grain size mm	0.42
60% grain size mm	0.29
30% grain size mm	0.265
10% grain size mm	0.22
Coefficient of uniformity U_c	1.318
Coefficient of curvature U_c'	1.101

Grain size accumulation curve



App. 3.77

Grain Size Analysis

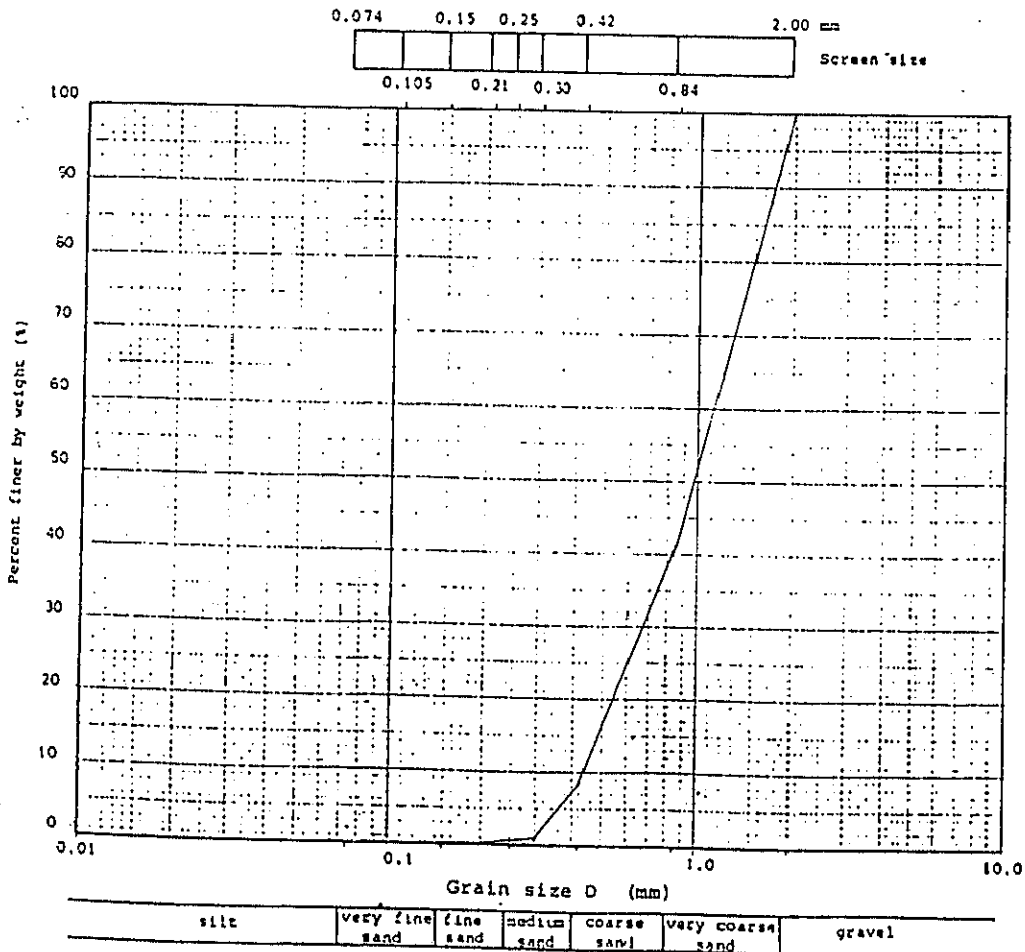
Sample No. 49 B
 Name of sample Pali Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	117.35	41.325
0.42	65.75	8.45
0.30	14.90	1.00
0.25	0.75	0.625
0.21	0.95	0.15
0.15	0.25	0.025
0.105	0.05	0
0.074	0	0
	0	-

g		
Very coarse sand (2.00-0.84mm) %		58.675
Coarse sand (0.84-0.42mm) %		32.875
Medium sand (0.42-0.25mm) %		7.825
Fine sand (0.25-0.15mm) %		0.60
Very fine sand (0.15-0.074mm) %		0.025
Silt or clay (under 0.074mm) %		0
Maximum grain size mm		0.84
60% grain size mm		1.11
30% grain size mm		0.67
10% grain size mm		0.44
Coefficient of uniformity U_c		2.523
Coefficient of curvature U_c'		0.919

Grain size accumulation curve



App.3.78

Grain Size Analysis

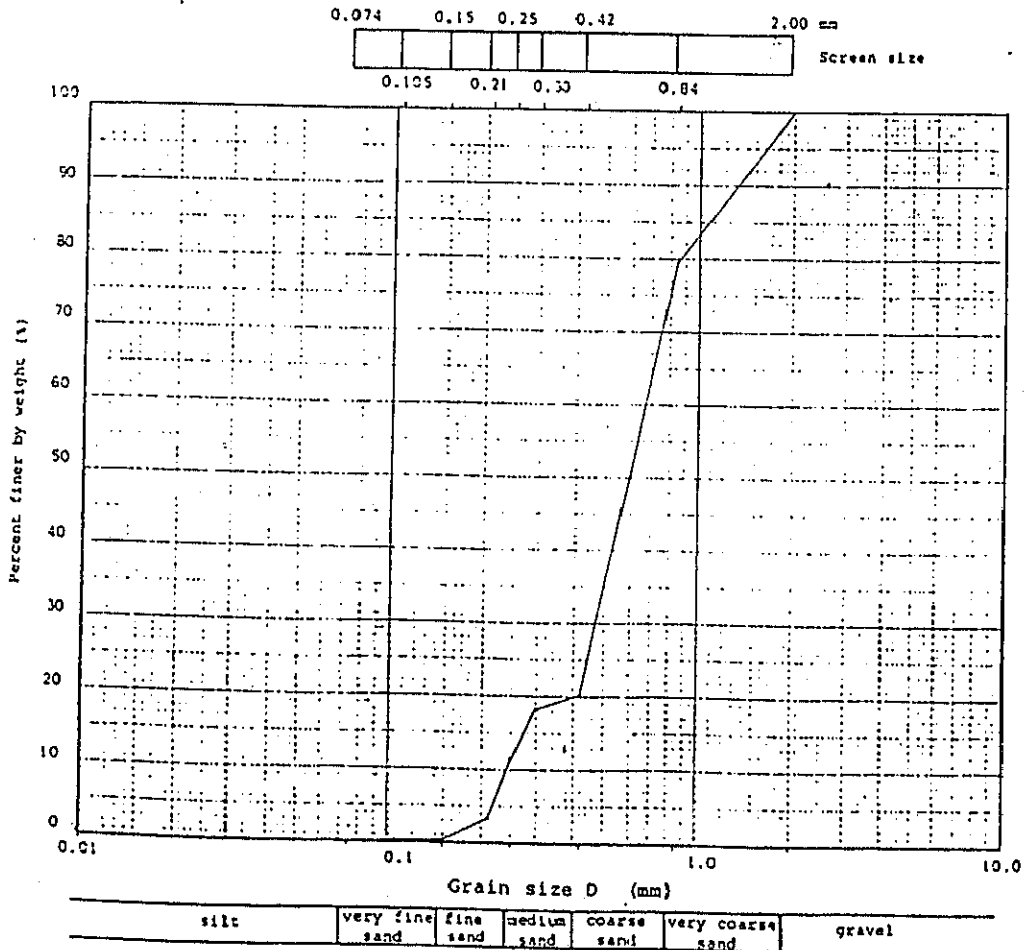
Sample No. 50 A
 Name of sample Bali Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	40.75	79.625
0.42	118.85	20.20
0.30	3.70	18.35
0.25	13.35	11.675
0.21	16.75	3.3
0.15	5.95	0.325
0.105	0.35	0.15
0.074	0.05	0.125
	0.25	-

Very coarse sand (2.00-0.84mm) %	20.375
Coarse sand (0.84-0.42mm) %	59.425
Medium sand (0.42-0.25mm) %	8.525
Fine sand (0.25-0.15mm) %	11.35
Very fine sand (0.15-0.074mm) %	0.20
Silt or clay (under 0.074mm) %	0.125
Maximum grain size mm	0.84
60% grain size mm	0.67
30% grain size mm	0.47
10% grain size mm	0.24
Coefficient of uniformity U_c	2.792
Coefficient of curvature U_c'	1.374

Grain size accumulation curve



App.3.79

Grain Size Analysis

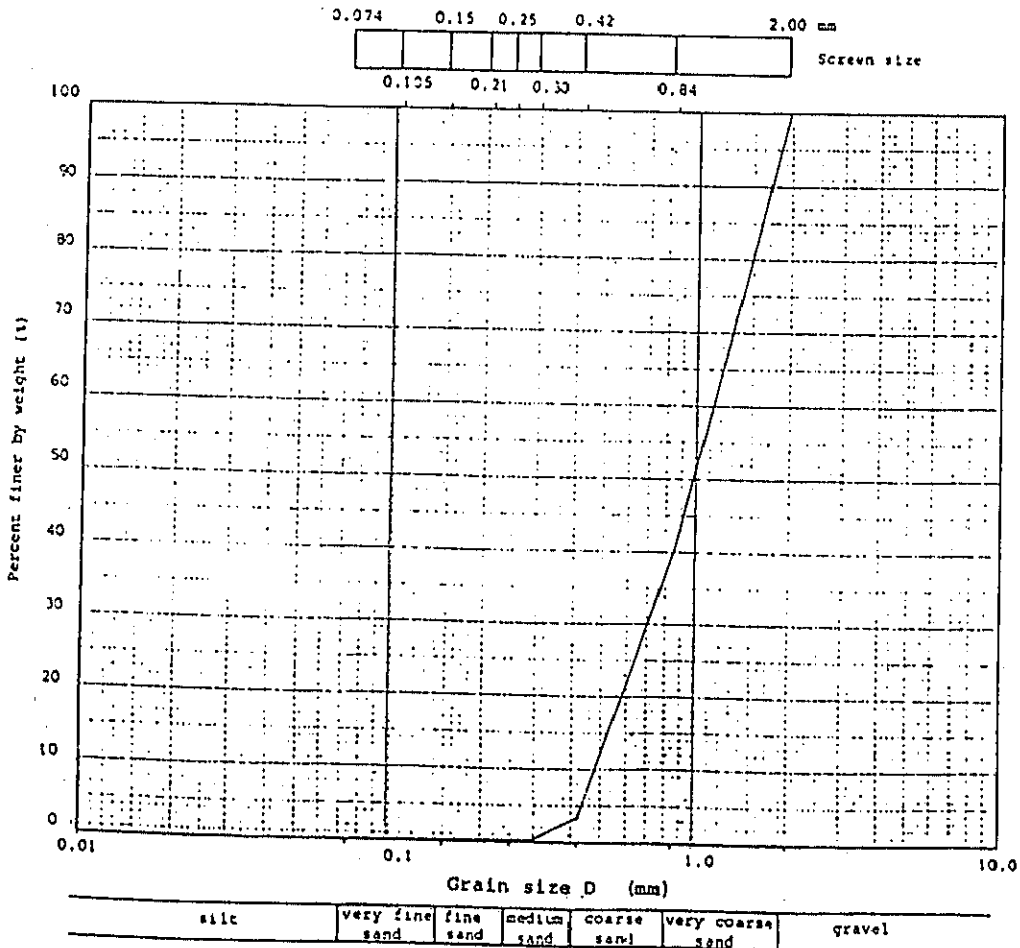
Sample No. 50 B
 Name of sample Bali Beach Sand
 Locality Nusa Dua Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	120.35	39.825
0.42	72.8	3.425
0.30	6.25	0.30
0.25	0.20	0.20
0.21	0.25	0.075
0.15	0.10	0.025
0.105	0.05	0
0.074	0	0
	0	-

Very coarse sand (2.00-0.84mm) %	60.175
Coarse sand (0.84-0.42mm) %	36.40
Medium sand (0.42-0.25mm) %	3.225
Fine sand (0.25-0.15mm) %	0.175
Very fine sand (0.15-0.074mm) %	0.025
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	1.14
30% grain size mm	0.7
10% grain size mm	0.48
Coefficient of uniformity U _c	2.375
Coefficient of curvature U _{c'}	0.895

Grain size accumulation curve



App. 3.80

Grain Size Analysis

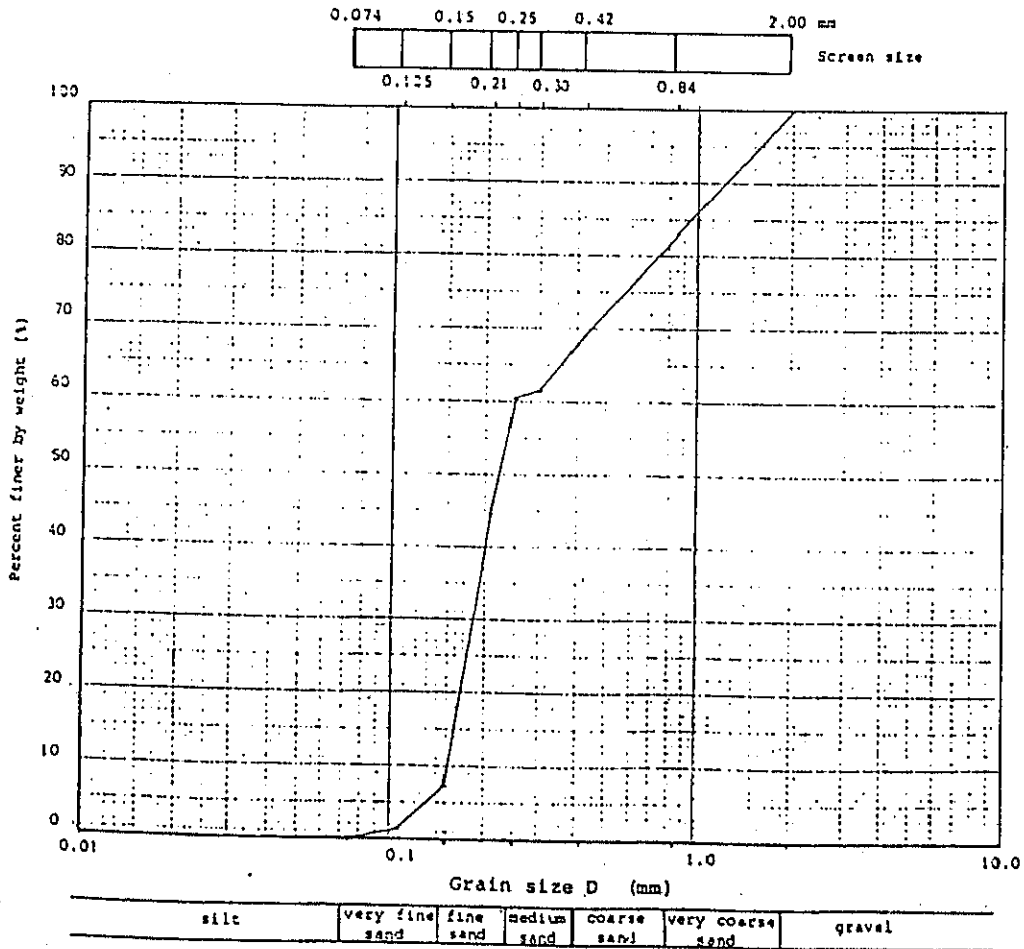
Sample No. 51 - 1A
 Name of sample Bali Beach Sand
 Locality Kuta Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	33.8	83.1
0.42	28.15	69.025
0.30	15.1	61.475
0.25	2.35	60.30
0.21	31.05	44.775
0.15	74.65	7.45
0.105	12.05	1.425
0.074	2.6	0.125
	0.25	-

Very coarse sand (2.00-0.84mm) %	16.9
Coarse sand (0.84-0.42mm) %	14.075
Medium sand (0.42-0.25mm) %	8.725
Fine sand (0.25-0.15mm) %	52.85
Very fine sand (0.15-0.074mm) %	7.325
Silt or clay (under 0.074mm) %	0.125
Maximum grain size mm	0.84
60% grain size mm	0.25
30% grain size mm	0.183
10% grain size mm	0.151
Coefficient of uniformity U_c	1.656
Coefficient of curvature U_c'	0.887

Grain size accumulation curve



App. 3.81

Grain Size Analysis

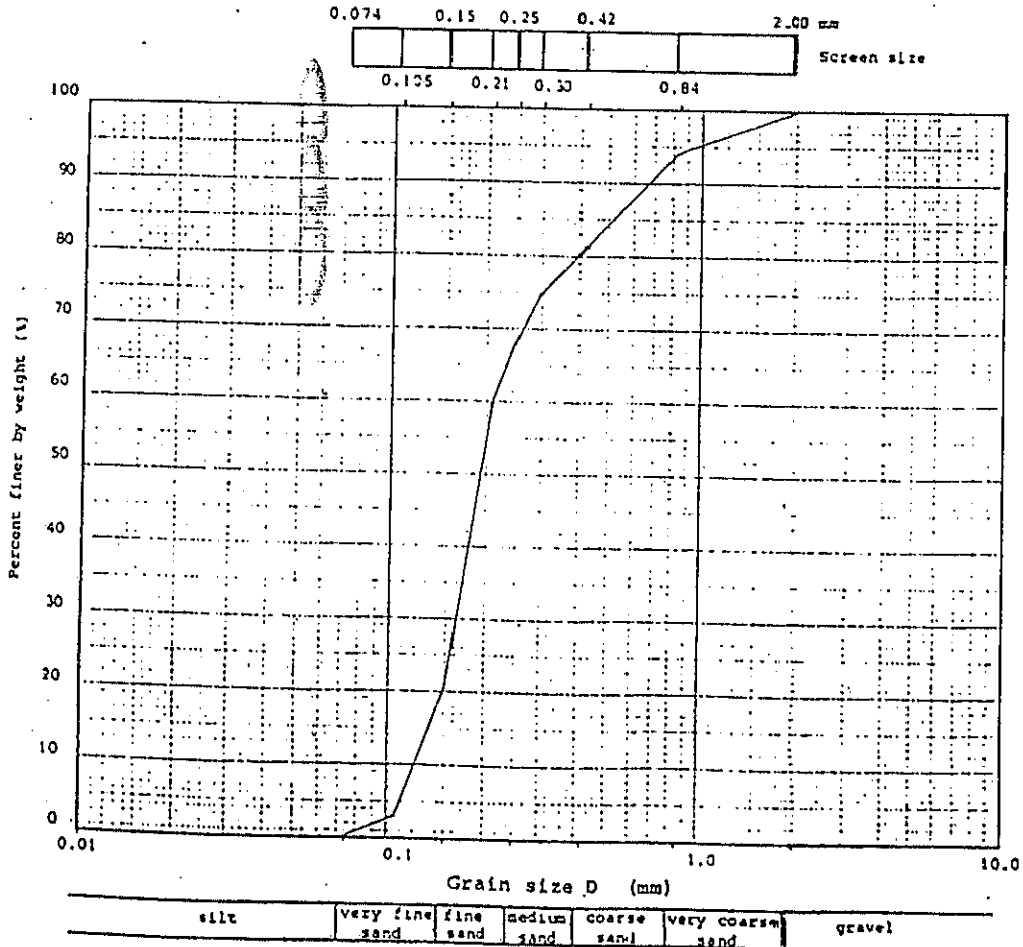
Sample No. 51 - 1 B
 Name of sample Bali Beach Sand
 Locality Kuta Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	11.75	94.125
0.42	25.95	81.15
0.30	12.7	74.8
0.25	13.75	67.925
0.21	16.3	59.775
0.15	31.65	18.95
0.105	32.35	2.775
0.074	5.05	0.25
	0.5	-

Very coarse sand (2.00-0.84mm) %	5.875
Coarse sand (0.84-0.42mm) %	12.975
Medium sand (0.42-0.25mm) %	13.225
Fine sand (0.25-0.15mm) %	48.975
Very fine sand (0.15-0.074mm) %	18.70
Silt or clay (under 0.074mm) %	0.25
Maximum grain size mm	0.84
60% grain size mm	0.21
30% grain size mm	0.161
10% grain size mm	0.121
Coefficient of uniformity U_c	1.736
Coefficient of curvature U_c'	1.020

Grain size accumulation curve



App. 3.82

Grain Size Analysis

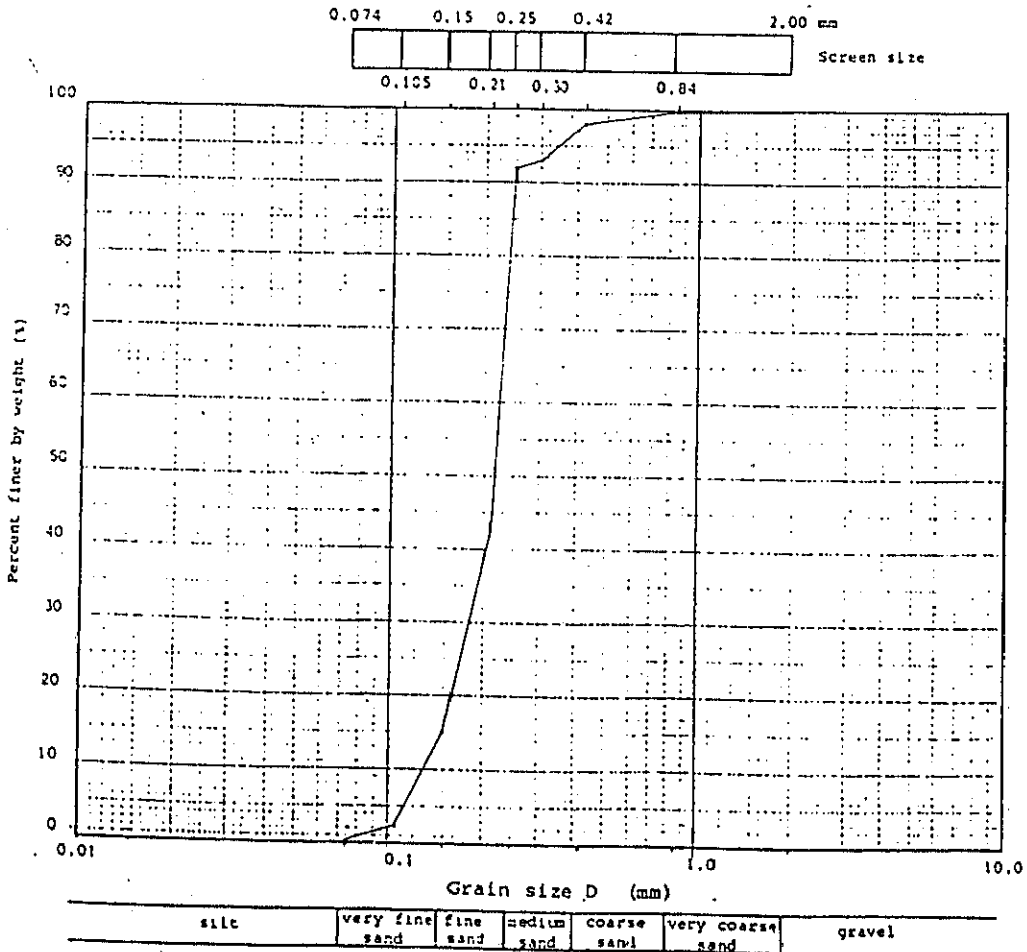
Sample No. 51-2A
 Name of sample Beach Sand
 Locality Kuta Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	0.2	99.9
0.42	3.36	98.22
0.30	9.76	93.34
0.25	3.18	91.75
0.21	98.02	42.74
0.15	55.7	14.89
0.105	25.06	2.36
0.074	4.4	0.16
	0.32	-

Very coarse sand (2.00-0.84mm) %	0.1
Coarse sand (0.84-0.42mm) %	1.68
Medium sand (0.42-0.25mm) %	6.73
Fine sand (0.25-0.15mm) %	76.9
Very fine sand (0.15-0.074mm) %	14.73
Silt or clay (under 0.074mm) %	0.16
Maximum grain size mm	0.84
60% grain size mm	0.225
30% grain size mm	0.179
10% grain size mm	0.13
Coefficient of uniformity U_c	1.731
Coefficient of curvature U_c'	1.095

Grain size accumulation curve



App. 3.83

Grain Size Analysis

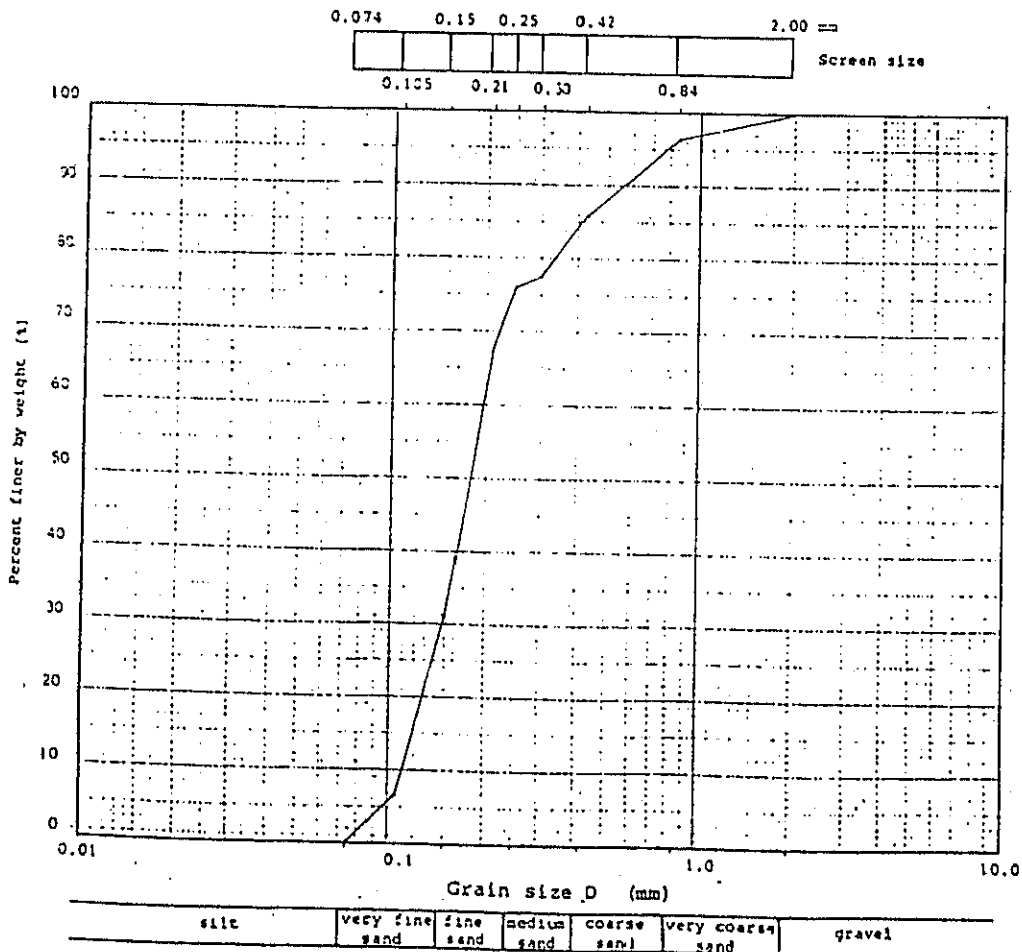
Sample No. 51 - 2B
 Name of sample Pali Beach Sand
 Locality Kuta Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	6.85	96.575
0.42	21.40	85.875
0.30	16.50	77.625
0.25	2.95	76.15
0.21	17.25	67.525
0.15	72.60	31.225
0.105	48.80	6.825
0.074	13.60	0.025
	0.05	-

Very coarse sand (2.00-0.84mm) %	3.425
Coarse sand (0.84-0.42mm) %	10.70
Medium sand (0.42-0.25mm) %	9.725
Fine sand (0.25-0.15mm) %	44.925
Very fine sand (0.15-0.074mm) %	31.20
Silt or clay (under 0.074mm) %	0.025
Maximum grain size mm	0.84
60% grain size mm	0.195
30% grain size mm	0.148
10% grain size mm	0.11
Coefficient of uniformity U_c	1.773
Coefficient of curvature U_c'	1.021

Grain size accumulation curve



App.3.84

Grain Size Analysis

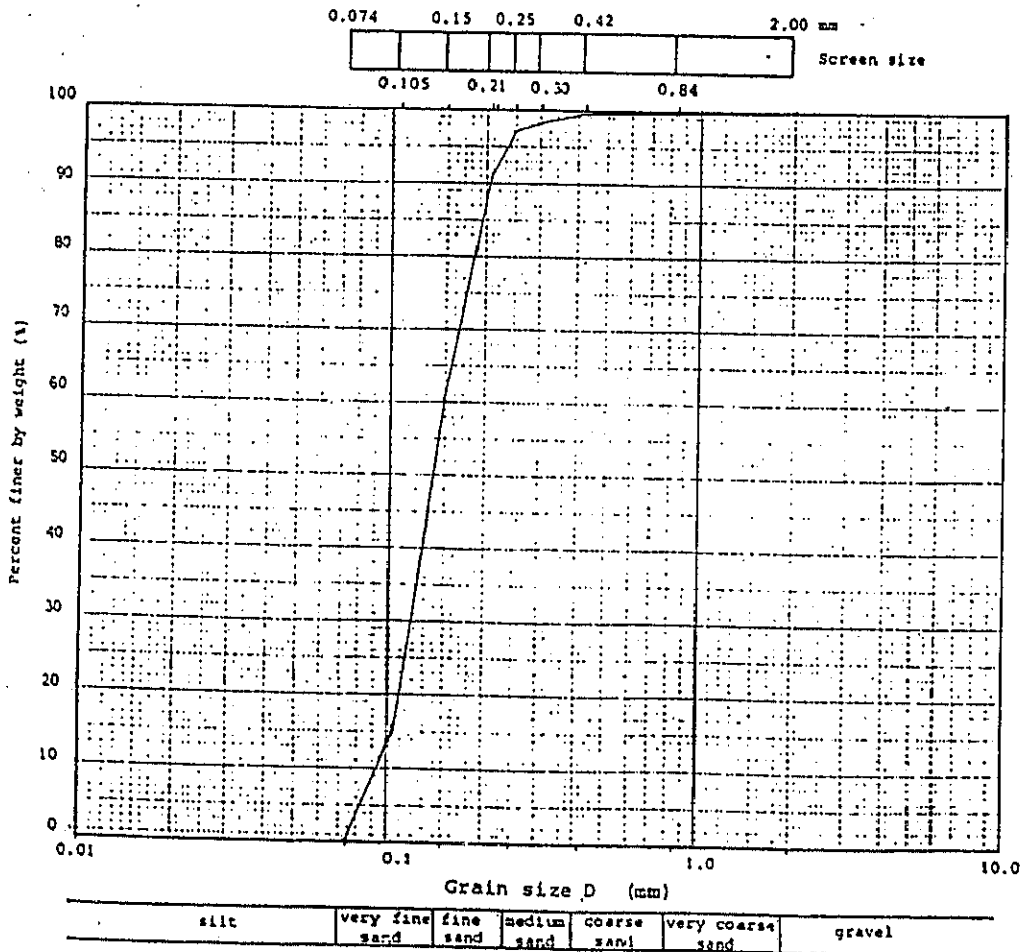
Sample No. 52 A
 Name of sample Bali Beach Sand
 Locality Kuta Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	0.2	99.9
0.42	0.55	99.625
0.30	3.0	98.125
0.25	1.75	97.25
0.21	11.55	91.475
0.15	62.15	60.40
0.105	90.2	15.30
0.074	29.95	0.325
	0.65	-

g	
Very coarse sand (2.00-0.84mm) %	0.1
Coarse sand (0.84-0.42mm) %	0.275
Medium sand (0.42-0.25mm) %	2.375
Fine sand (0.25-0.15mm) %	36.85
Very fine sand (0.15-0.074mm) %	60.075
Silt or clay (under 0.074mm) %	0.325
Maximum grain size mm	0.84
60% grain size mm	0.149
30% grain size mm	0.128
10% grain size mm	0.092
Coefficient of uniformity U_c	1.620
Coefficient of curvature U_c'	1.195

Grain size accumulation curve



App. 3.85

Grain Size Analysis

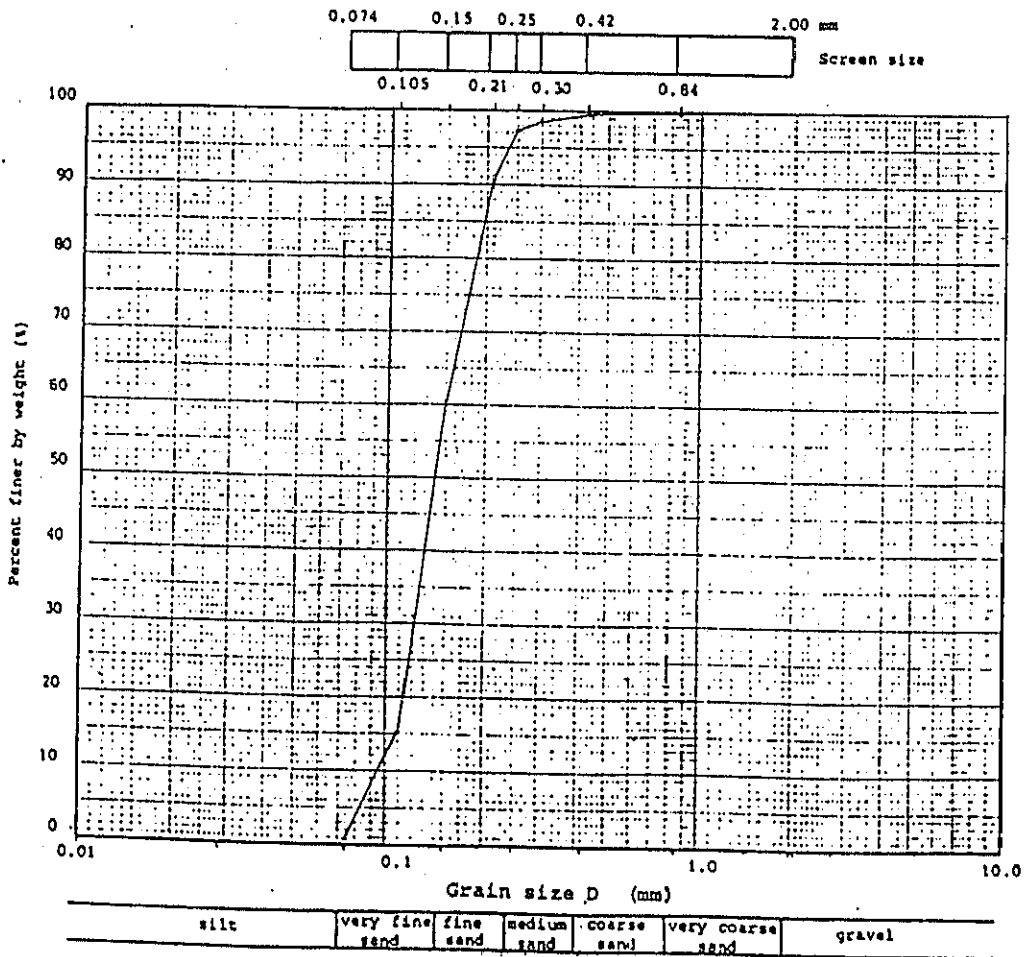
Sample No. 52 B
 Name of sample Beach Sand
 Locality Kuta Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	0.30	99.85
0.42	0.50	99.60
0.30	2.00	98.60
0.25	2.50	97.35
0.21	12.20	91.25
0.15	61.15	60.675
0.105	91.05	15.15
0.074	28.60	0.85
	1.70	-

Very coarse sand (2.00-0.84mm) %	0.15
Coarse sand (0.84-0.42mm) %	0.25
Medium sand (0.42-0.25mm) %	2.25
Fine sand (0.25-0.15mm) %	36.675
Very fine sand (0.15-0.074mm) %	59.825
Silt or clay (under 0.074mm) %	0.85
Maximum grain size mm	0.84
60% grain size mm	0.15
30% grain size mm	0.12
10% grain size mm	0.094
Coefficient of uniformity U_c	1.596
Coefficient of curvature U_c'	1.021

Grain size accumulation curve



App.3.86

Grain Size Analysis

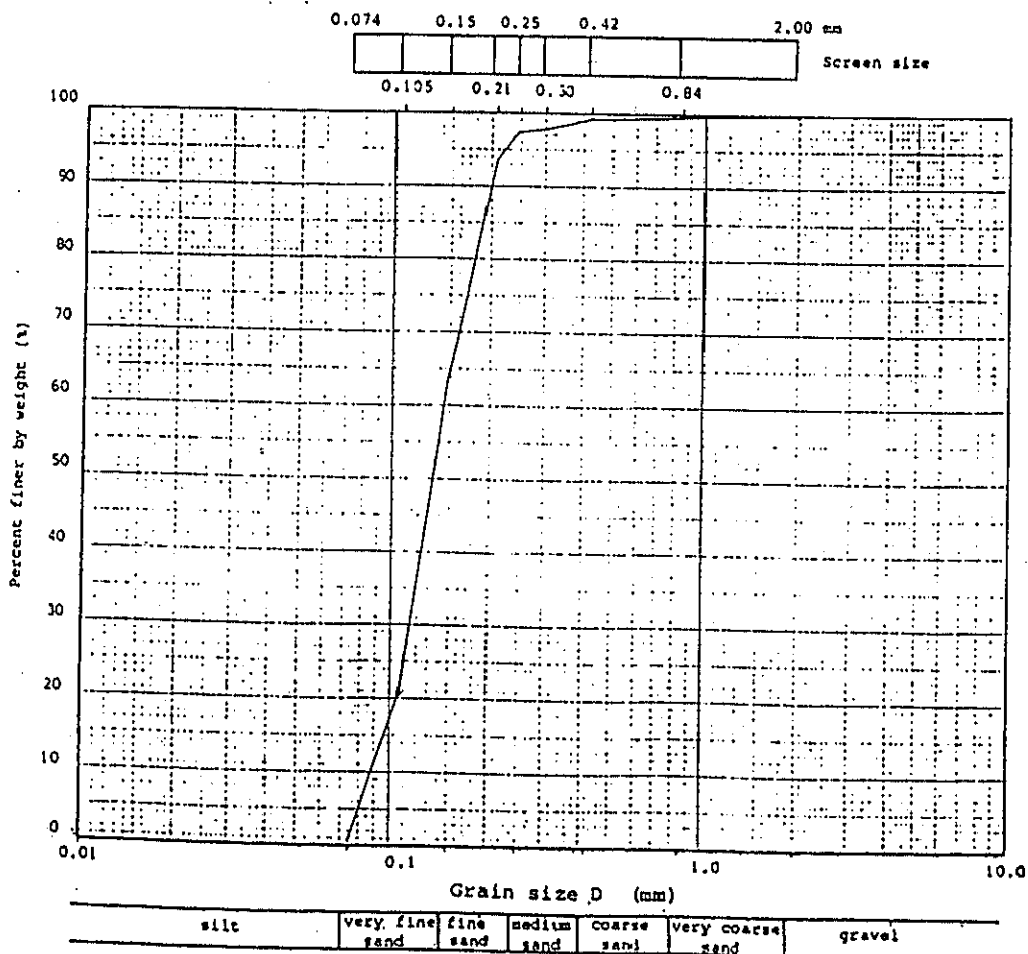
Sample No. 53 A
 Name of sample Bali Beach Sand
 Locality Kuta Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	0.45	99.775
0.42	1.1	99.225
0.30	2.65	97.9
0.25	0.95	97.425
0.21	7.45	93.7
0.15	59.75	63.825
0.105	86.30	20.675
0.074	39.80	0.775
	1.55	-

Very coarse sand (2.00-0.84mm) %	0.225
Coarse sand (0.84-0.42mm) %	0.55
Medium sand (0.42-0.25mm) %	1.8
Fine sand (0.25-0.15mm) %	33.6
Very fine sand (0.15-0.074mm) %	63.05
Silt or clay (under 0.074mm) %	0.775
Maximum grain size mm	0.84
60% grain size mm	0.142
30% grain size mm	0.114
10% grain size mm	0.088
Coefficient of uniformity U_c	1.614
Coefficient of curvature U_c'	1.040

Grain size accumulation curve



App.3.87

Grain Size Analysis

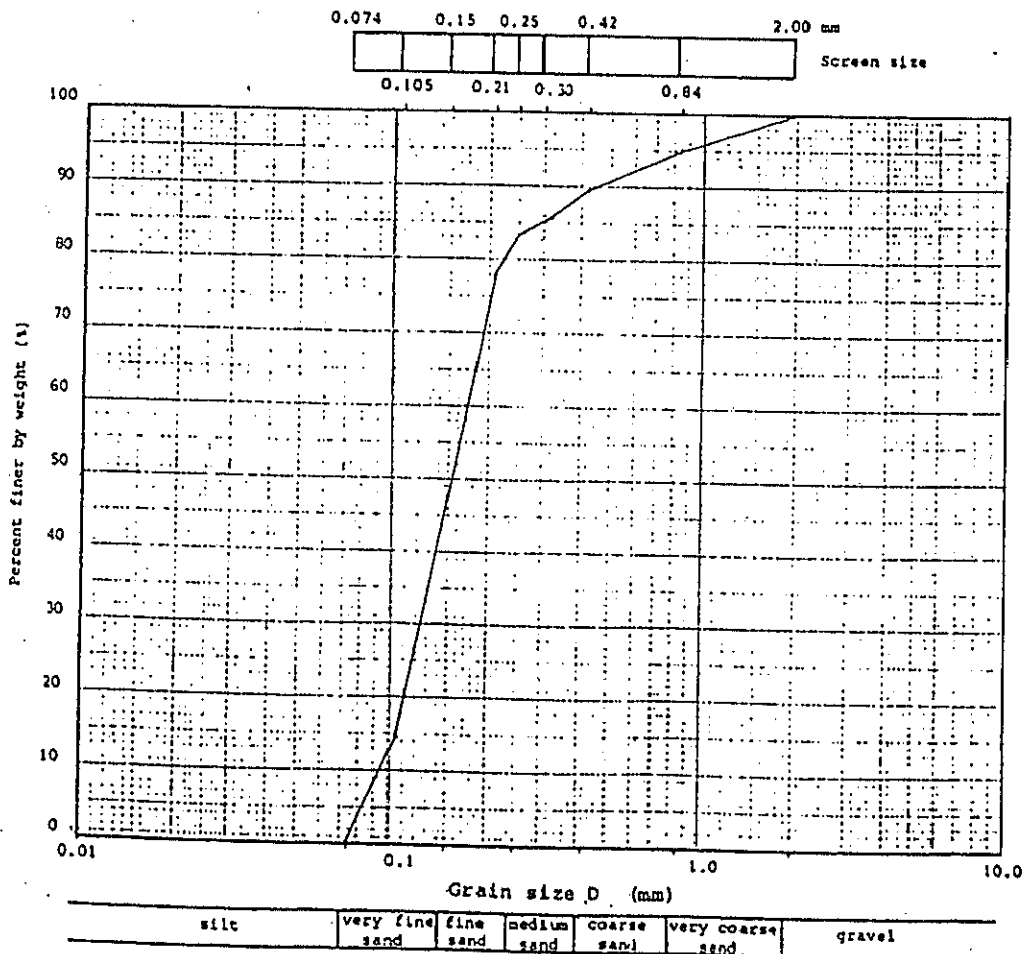
Sample No. 53 B
 Name of sample Bali Beach Sand
 Locality Kuta Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	9.95	95.025
0.42	10.80	89.625
0.30	8.9	85.175
0.25	3.05	83.65
0.21	10.9	78.2
0.15	61.1	47.65
0.105	66.1	14.6
0.074	28.8	0.20
	0.4	-

Very coarse sand (2.00-0.84mm) %	4.975
Coarse sand (0.84-0.42mm) %	5.4
Medium sand (0.42-0.25mm) %	5.975
Fine sand (0.25-0.15mm) %	36.0
Very fine sand (0.15-0.074mm) %	47.45
Silt or clay (under 0.074mm) %	0.2
Maximum grain size mm	0.84
60% grain size mm	0.172
30% grain size mm	0.124
10% grain size mm	0.094
Coefficient of uniformity U_c	1.830
Coefficient of curvature U_c'	0.951

Grain size accumulation curve



App. 3.88

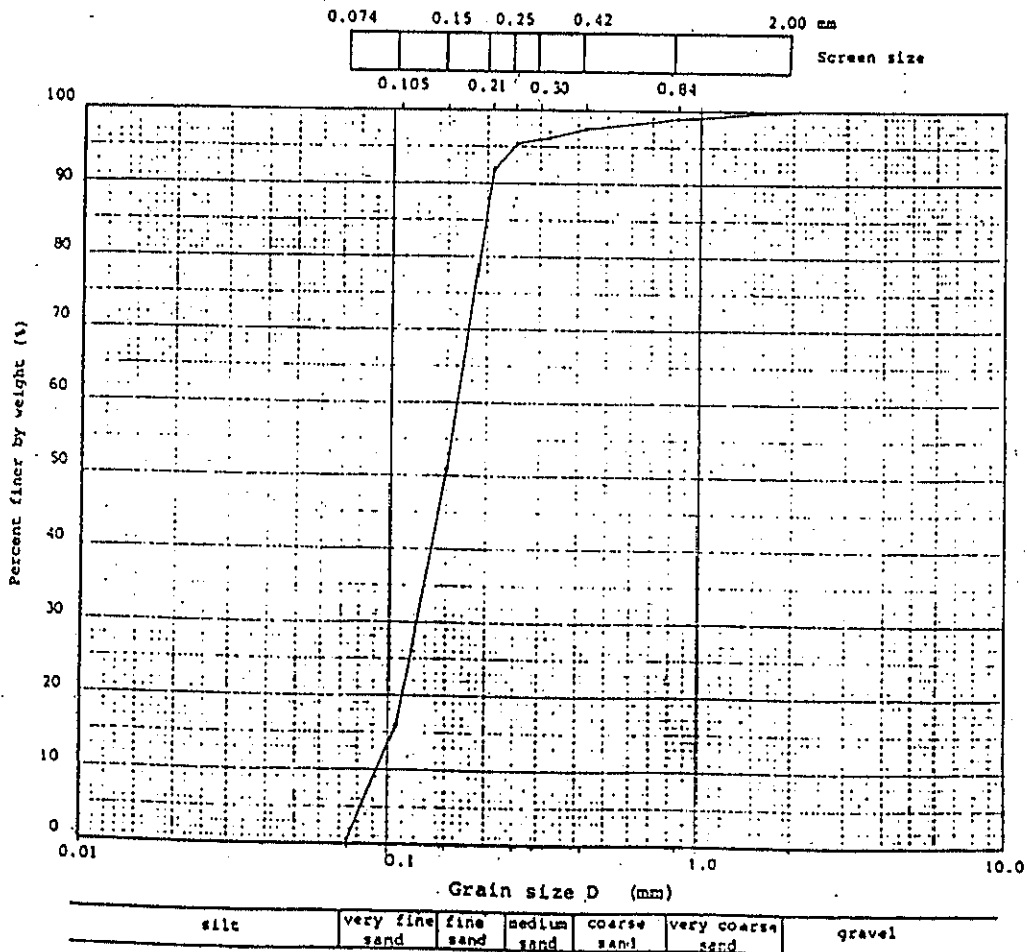
Grain Size Analysis

Sample No. 54 A Date _____
 Name of sample Beach Sand Signature _____
 Locality Kuta Beach

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	2.0	99.0
0.42	3.0	97.5
0.30	2.85	96.075
0.25	1.15	95.5
0.21	7.05	91.975
0.15	81.9	51.025
0.105	70.3	15.875
0.074	30.4	0.675
	1.35	-

Very coarse sand (2.00-0.84mm) %	1.0
Coarse sand (0.84-0.42mm) %	1.5
Medium sand (0.42-0.25mm) %	2.0
Fine sand (0.25-0.15mm) %	44.475
Very fine sand (0.15-0.074mm) %	50.35
Silt or clay (under 0.074mm) %	0.675
Maximum grain size mm	0.84
60% grain size mm	0.16
30% grain size mm	0.121
10% grain size mm	0.092
Coefficient of uniformity U_c	1.739
Coefficient of curvature U_c'	0.995

Grain size accumulation curve



App. 3.89

Grain Size Analysis

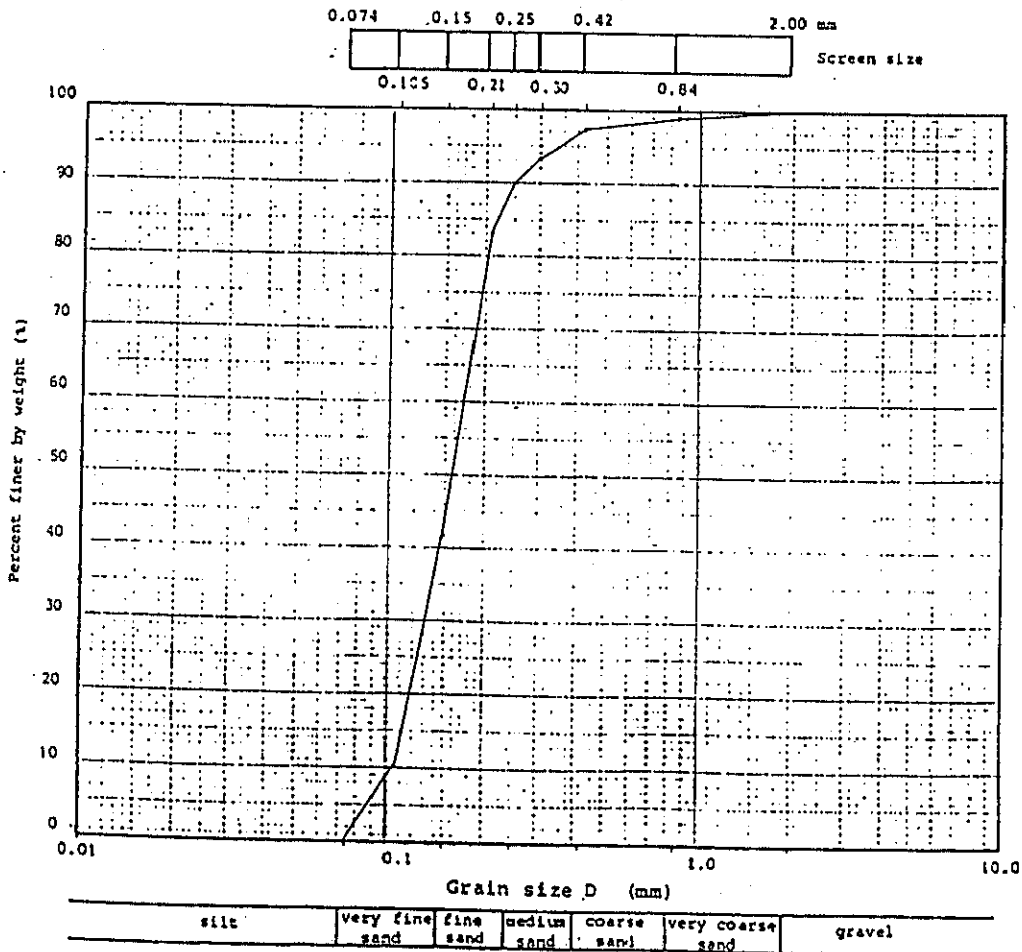
Sample No. 54 B
 Name of sample Beach Sand
 Locality Kula Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	2.15	98.925
0.42	2.9	97.475
0.30	8.3	93.325
0.25	6.25	90.2
0.21	13.65	83.375
0.15	83.65	41.55
0.105	62.5	10.3
0.074	20.5	0.05
	0.1	-

Very coarse sand (2.00-0.84mm) %	1.075
Coarse sand (0.84-0.42mm) %	1.45
Medium sand (0.42-0.25mm) %	7.275
Fine sand (0.25-0.15mm) %	48.65
Very fine sand (0.15-0.074mm) %	41.50
Silt or clay (under 0.074mm) %	0.05
Maximum grain size mm	0.84
60% grain size mm	0.17
30% grain size mm	0.13
10% grain size mm	0.103
Coefficient of uniformity U_c	1.650
Coefficient of curvature U_c'	0.965

Grain size accumulation curve



App. 3.90

Grain Size Analysis

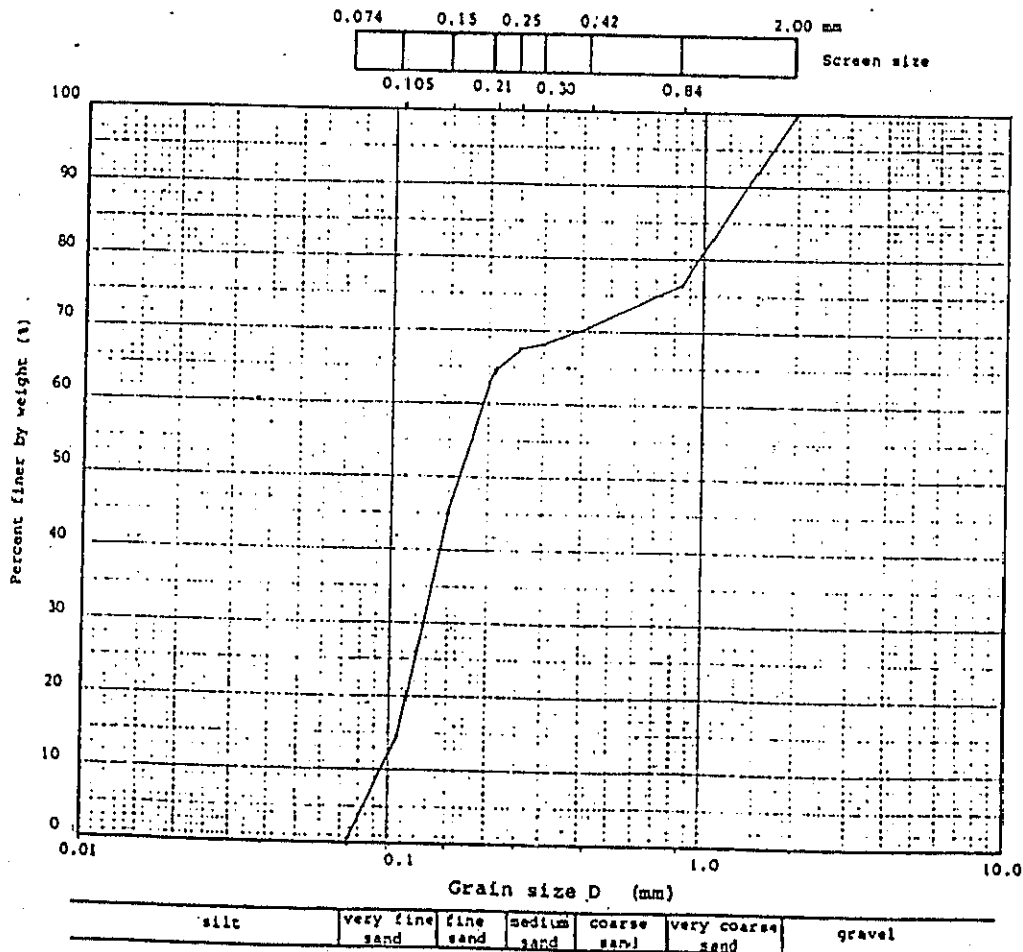
Sample No. 55 A
 Name of sample Beach Sand
 Locality Kuta Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	46.75	76.625
0.42	12.25	70.50
0.30	4.55	68.225
0.25	1.3	67.575
0.21	5.5	64.825
0.15	39.55	45.05
0.105	60.85	14.625
0.074	27.80	0.725
	1.45	-

Very coarse sand (2.00-0.84mm) %	23.375
Coarse sand (0.84-0.42mm) %	6.125
Medium sand (0.42-0.25mm) %	2.925
Fine sand (0.25-0.15mm) %	22.525
Very fine sand (0.15-0.074mm) %	44.325
Silt or clay (under 0.074mm) %	0.725
Maximum grain size mm	0.84
60% grain size mm	0.19
30% grain size mm	0.128
10% grain size mm	0.094
Coefficient of uniformity U_c	2.021
Coefficient of curvature U_c'	0.917

Grain size accumulation curve



Grain Size Analysis

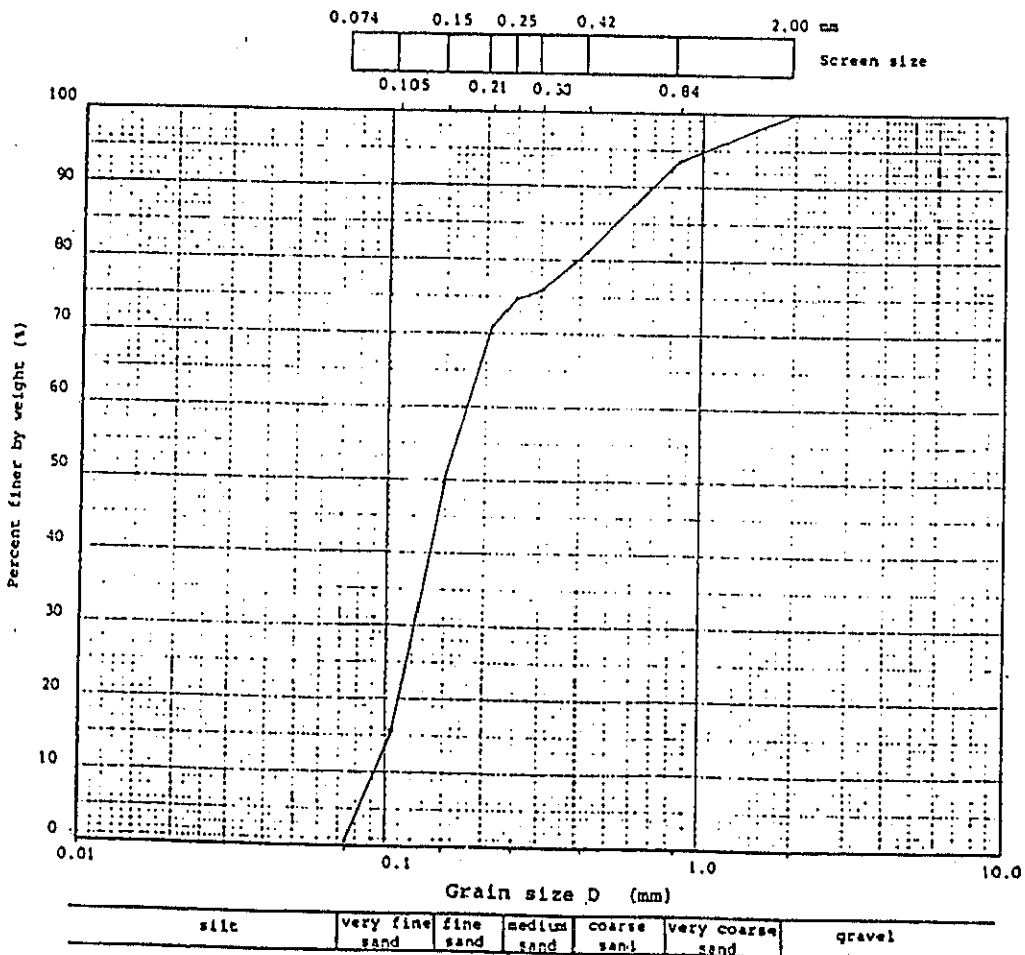
Sample No. 55 B
 Name of sample Beach Sand
 Locality Yuta Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	12.75	93.625
0.42	24.95	81.15
0.30	10.55	75.875
0.25	2.25	74.75
0.21	7.4	71.05
0.15	43.10	49.50
0.105	67.70	15.65
0.074	30.35	0.475
	0.95	-

Very coarse sand (2.00-0.84mm) %	6.375
Coarse sand (0.84-0.42mm) %	12.475
Medium sand (0.42-0.25mm) %	6.40
Fine sand (0.25-0.15mm) %	25.25
Very fine sand (0.15-0.074mm) %	49.025
Silt or clay (under 0.074mm) %	0.475
Maximum grain size mm	0.84
60% grain size mm	0.175
30% grain size mm	0.121
10% grain size mm	0.091
Coefficient of uniformity U_c	1.923
Coefficient of curvature U_c'	0.919

Grain size accumulation curve



App. 3.92

Grain Size Analysis

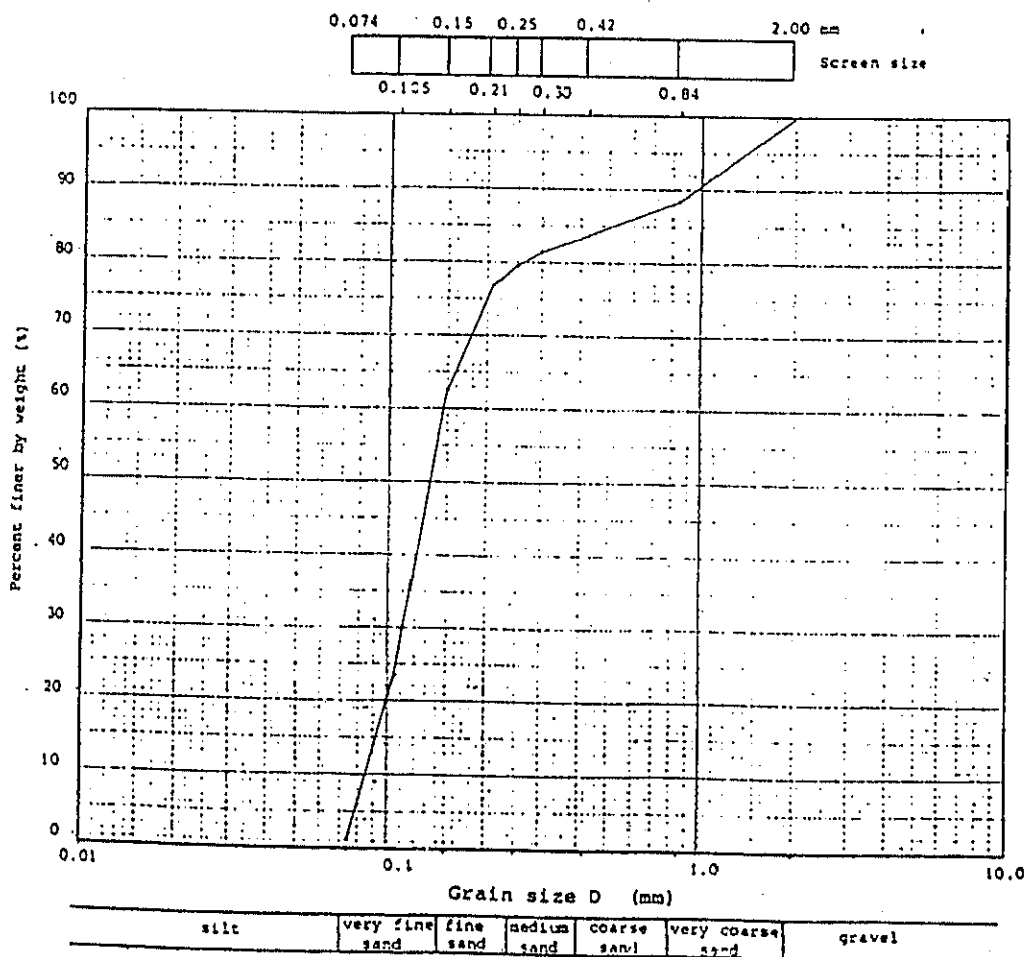
Sample No. 56 A
 Name of sample Bali Beach Sand
 Locality Kuta Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	23.05	88.475
0.42	9.45	83.75
0.30	4.6	81.45
0.25	3.90	79.50
0.21	5.10	76.95
0.15	28.85	62.525
0.105	77.70	23.675
0.074	45.15	1.10
	2.20	-

Very coarse sand (2.00-0.84mm) %	11.525
Coarse sand (0.84-0.42mm) %	4.725
Medium sand (0.42-0.25mm) %	4.25
Fine sand (0.25-0.15mm) %	16.975
Very fine sand (0.15-0.074mm) %	61.425
Silt or clay (under 0.074mm) %	1.1
Maximum grain size mm	0.84
60% grain size mm	0.145
30% grain size mm	0.11
10% grain size mm	0.084
Coefficient of uniformity U_c	1.726
Coefficient of curvature U_c'	0.993

Grain size accumulation curve



App.3.93

Grain Size Analysis

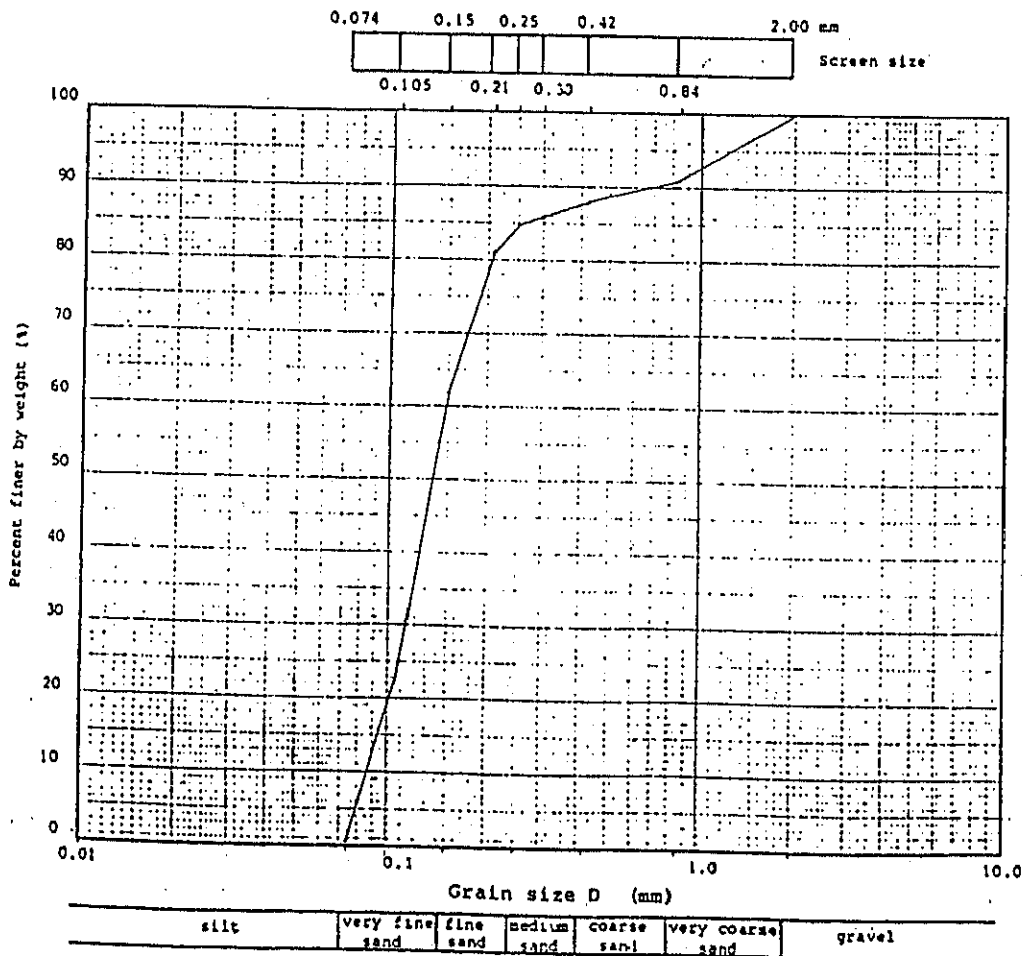
Sample No. 56 B
 Name of sample Beach Sand
 Locality Kuta Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	17.9	91.05
0.42	5.65	88.225
0.30	4.8	85.825
0.25	2.0	84.825
0.21	7.4	81.125
0.15	38.5	61.875
0.105	78.9	22.425
0.074	43.75	0.55
	1.1	-

Very coarse sand (2.00-0.84mm) %	8.95
Coarse sand (0.84-0.42mm) %	2.825
Medium sand (0.42-0.25mm) %	3.4
Fine sand (0.25-0.15mm) %	22.95
Very fine sand (0.15-0.074mm) %	61.325
Silt or clay (under 0.074mm) %	0.55
Maximum grain size mm	0.84
60% grain size mm	0.149
30% grain size mm	0.112
10% grain size mm	0.087
Coefficient of uniformity U _c	1.713
Coefficient of curvature U _{c'}	0.968

Grain size accumulation curve



App.3.94

Grain Size Analysis

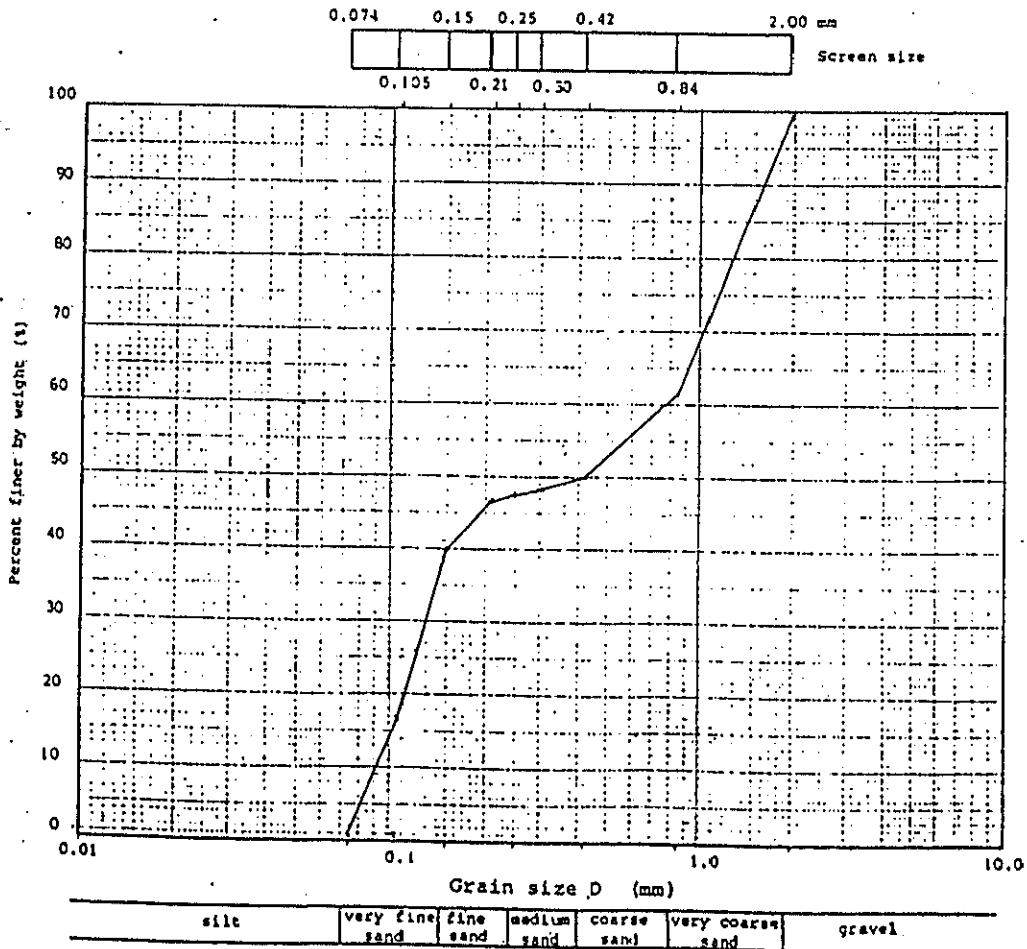
Sample No. 57 A
 Name of sample Bali Beach Sand
 Locality Kuta Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	76.86	61.57
0.42	23.90	49.62
0.30	3.10	48.07
0.25	0.76	47.69
0.21	1.86	46.76
0.15	14.20	39.66
0.105	45.10	17.11
0.074	32.30	0.96
	1.92	-

Very coarse sand (2.00-0.84mm) %	38.43
Coarse sand (0.84-0.42mm) %	11.95
Medium sand (0.42-0.25mm) %	1.93
Fine sand (0.25-0.15mm) %	8.03
Very fine sand (0.15-0.074mm) %	38.70
Silt or clay (under 0.074mm) %	0.96
Maximum grain size mm	0.84
60% grain size mm	0.76
30% grain size mm	0.13
10% grain size mm	0.091
Coefficient of uniformity U_c	8.352
Coefficient of curvature U_c'	0.244

Grain size accumulation curve



App.3.95

Grain Size Analysis

Sample No. 57 B

Date _____

Name of sample Ball Beach Sand

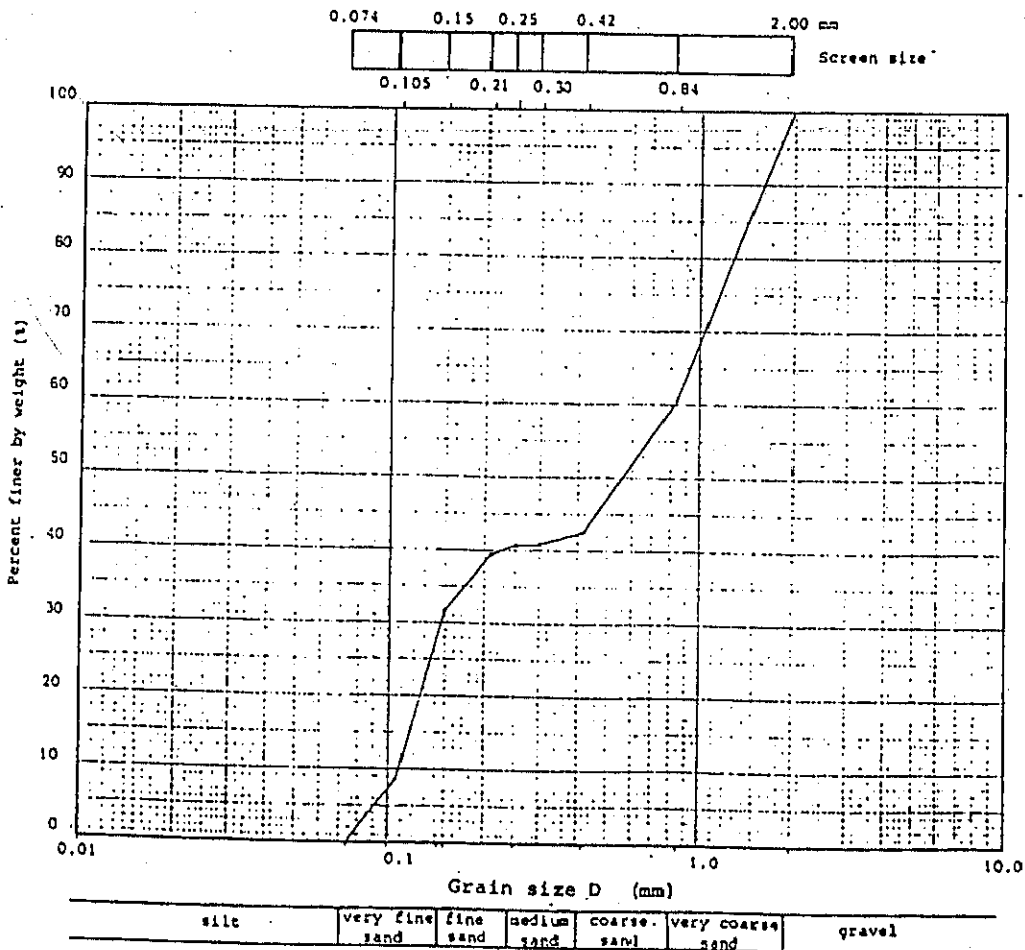
Signature _____

Locality Kuta Beach

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	78.75	60.625
0.42	35.85	42.70
0.30	3.35	41.025
0.25	0.65	40.70
0.21	2.05	33.675
0.15	16.0	31.675
0.105	46.1	5.625
0.074	17.25	3
	0	

Very coarse sand (2.00-0.84mm) %	39.375
Coarse sand (0.84-0.42mm) %	17.925
Medium sand (0.42-0.25mm) %	2.0
Fine sand (0.25-0.15mm) %	9.025
Very fine sand (0.15-0.074mm) %	31.675
Silt or clay (under 0.074mm) %	0
Maximum grain size mm	0.84
60% grain size mm	0.33
30% grain size mm	0.146
10% grain size mm	0.108
Coefficient of uniformity U_c	7.685
Coefficient of curvature U_c'	0.238

Grain size accumulation curve



App. 3.96

Grain Size Analysis

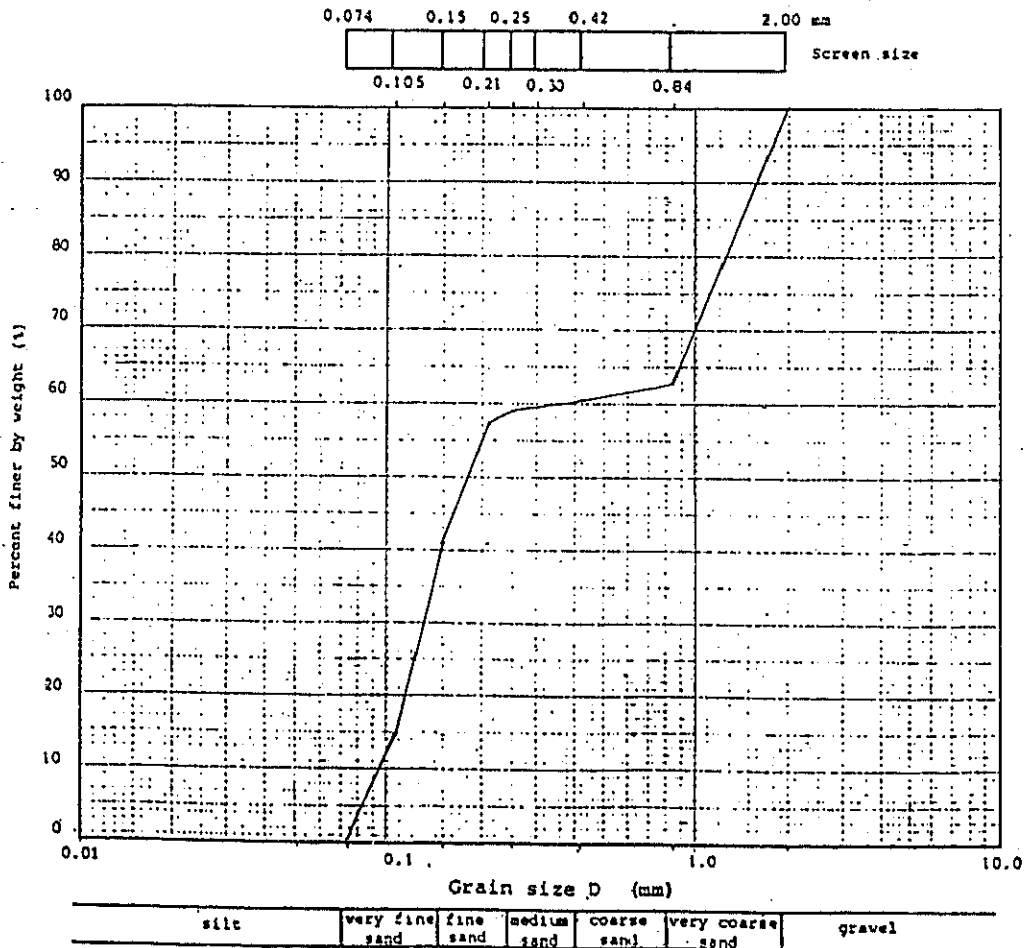
Sample No. 58 A
 Name of sample Beach Sand
 Locality Kuta Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	74.30	62.85
0.42	4.55	60.575
0.30	2.20	59.475
0.25	0.8	59.075
0.21	3.2	57.475
0.15	32.8	41.075
0.105	52.7	14.725
0.074	28.45	0.5
	1.00	-

Very coarse sand (2.00-0.84mm) %	37.15
Coarse sand (0.84-0.42mm) %	2.275
Medium sand (0.42-0.25mm) %	1.5
Fine sand (0.25-0.15mm) %	18.0
Very fine sand (0.15-0.074mm) %	40.575
Silt or clay (under 0.074mm) %	0.5
Maximum grain size mm	0.84
60% grain size mm	0.36
30% grain size mm	0.13
10% grain size mm	0.094
Coefficient of uniformity U_c	3.830
Coefficient of curvature U_c'	0.499

Grain size accumulation curve



App.3.97

Grain Size Analysis

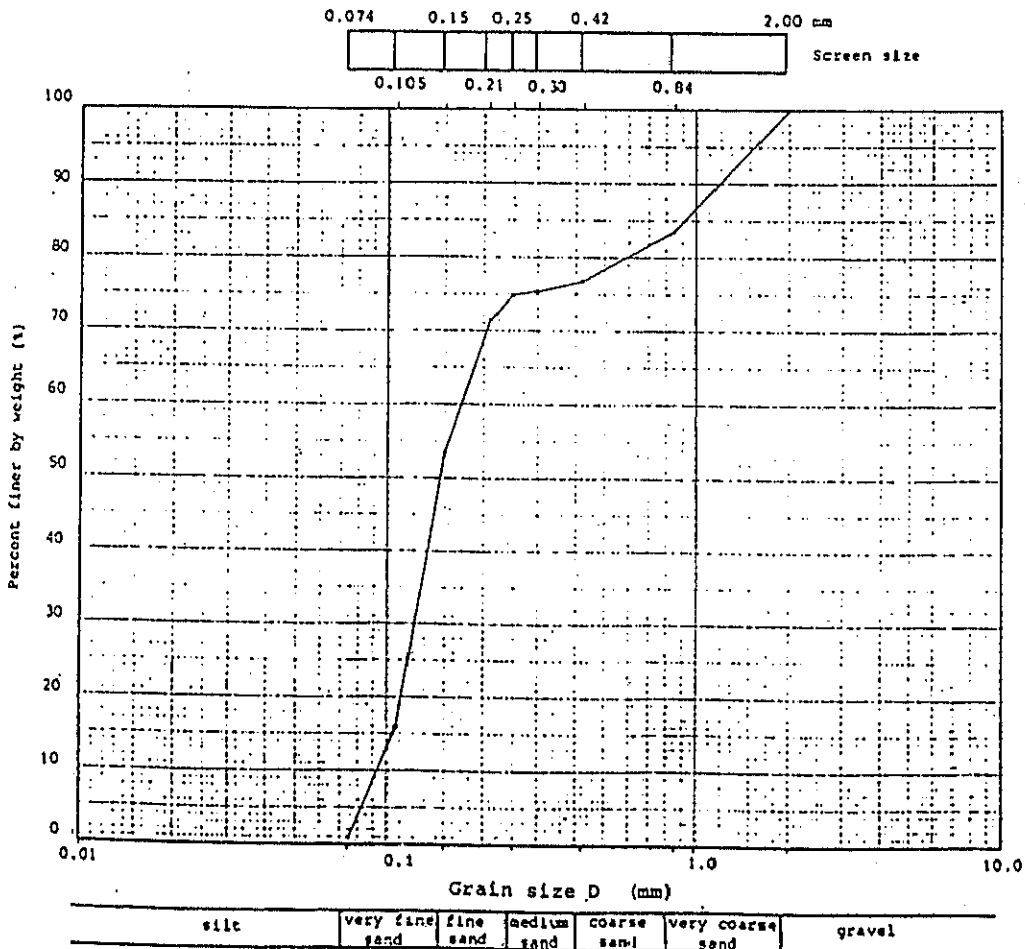
Sample No. 58 B
 Name of sample Beach Sand
 Locality Kuta Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	32.7	83.65
0.42	13.2	77.05
0.30	3.5	75.3
0.25	1.0	74.8
0.21	6.5	71.55
0.15	36.15	53.475
0.105	73.1	16.925
0.074	31.85	1.0
	2.00	-

Very coarse sand (2.00-0.84mm) %	16.35
Coarse sand (0.84-0.42mm) %	6.6
Medium sand (0.42-0.25mm) %	2.25
Fine sand (0.25-0.15mm) %	21.325
Very fine sand (0.15-0.074mm) %	52.475
Silt or clay (under 0.074mm) %	1.0
Maximum grain size mm	0.84
60% grain size mm	0.17
30% grain size mm	0.121
10% grain size mm	0.092
Coefficient of uniformity U_c	1.848
Coefficient of curvature U_c'	0.936

Grain size accumulation curve



App.3.98

Grain Size Analysis

Sample No. 59 A

Date _____

Name of sample Beach Sand

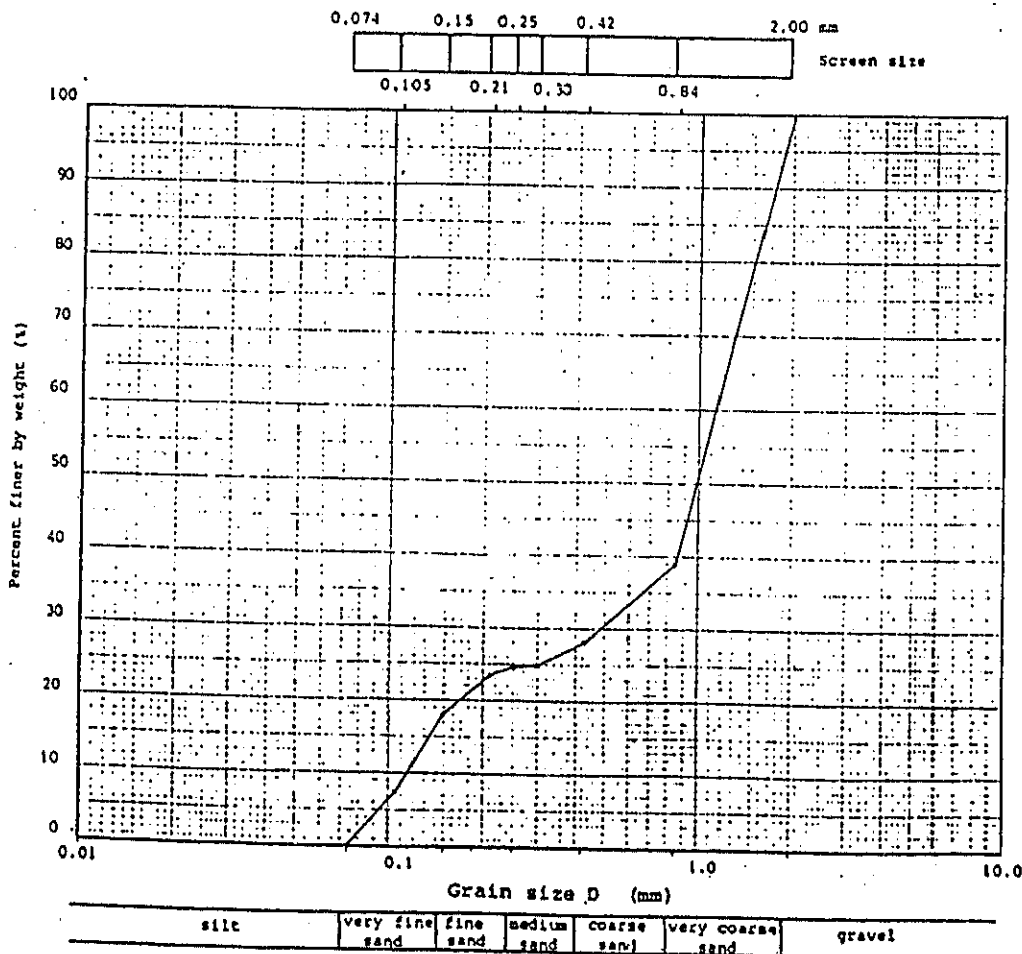
Signature _____

Locality Kuta Beach

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	122.16	38.92
0.42	22.26	27.79
0.30	5.76	24.91
0.25	0.70	24.56
0.21	2.10	23.51
0.15	9.36	18.83
0.105	23.10	7.28
0.074	14.30	0.13
	0.26	-

Very coarse sand (2.00-0.84mm) %	61.08
Coarse sand (0.84-0.42mm) %	11.13
Medium sand (0.42-0.25mm) %	3.23
Fine sand (0.25-0.15mm) %	5.73
Very fine sand (0.15-0.074mm) %	18.70
Silt or clay (under 0.074mm) %	0.13
Maximum grain size mm	0.84
60% grain size mm	1.15
30% grain size mm	0.48
10% grain size mm	0.115
Coefficient of uniformity U_c	10.00
Coefficient of curvature U_c'	1.742

Grain size accumulation curve



Grain Size Analysis

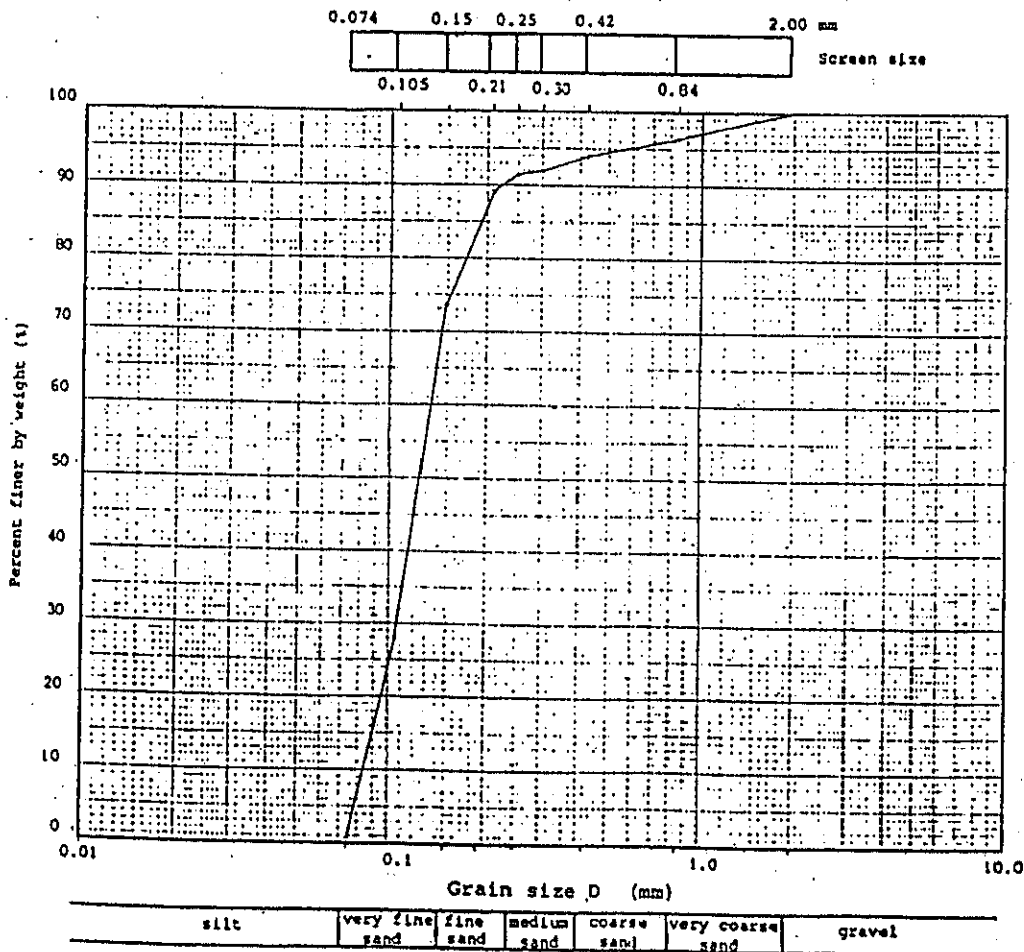
Sample No. 59 B
 Name of sample Bali Beach Sand
 Locality Kuta Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	6.65	96.675
0.42	5.35	94
0.30	4.05	91.975
0.25	1	91.475
0.21	4.45	89.25
0.15	31.35	73.575
0.105	91.4	27.875
0.074	54.2	0.775
	1.55	-

Very coarse sand (2.00-0.84mm) %	3.325
Coarse sand (0.84-0.42mm) %	2.675
Medium sand (0.42-0.25mm) %	2.525
Fine sand (0.25-0.15mm) %	17.90
Very fine sand (0.15-0.074mm) %	72.8
Silt or clay (under 0.074mm) %	0.775
Maximum grain size mm	0.84
60% grain size mm	0.134
30% grain size mm	0.108
10% grain size mm	0.084
Coefficient of uniformity U_c	1.595
Coefficient of curvature U_c'	1.036

Grain size accumulation curve



App.3.100

Grain Size Analysis

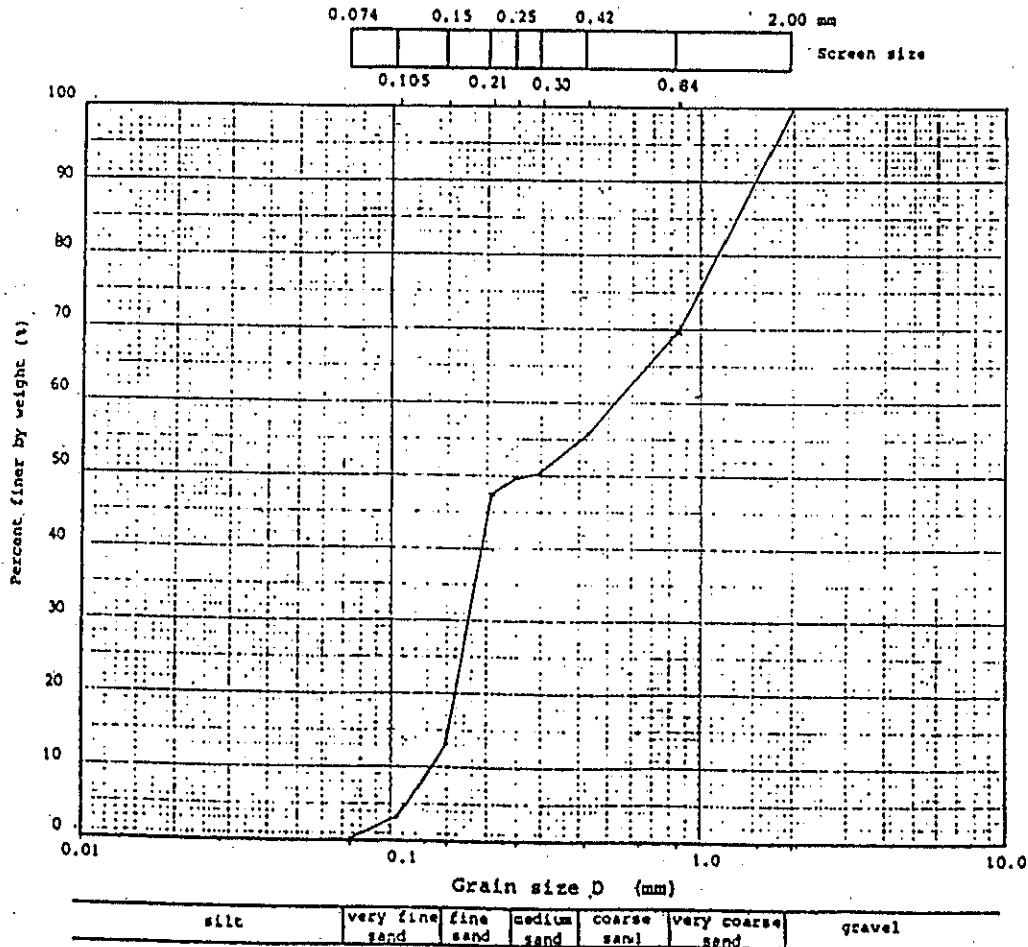
Sample No. 60 A
 Name of sample Bali Beach Sabd
 Locality Kuta Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00	-	100
0.84	60.85	69.575
0.42	27.55	55.8
0.30	10.8	50.4
0.25	1.45	49.675
0.21	4.45	47.45
0.15	68.60	13.15
0.105	19.85	3.225
0.074	5.9	0.275
	0.55	-

Very coarse sand (2.00-0.84mm) %	30.425
Coarse sand (0.84-0.42mm) %	13.775
Medium sand (0.42-0.25mm) %	6.125
Fine sand (0.25-0.15mm) %	36.525
Very fine sand (0.15-0.074mm) %	12.875
Silt or clay (under 0.074mm) %	0.275
Maximum grain size mm	0.84
60% grain size mm	0.53
30% grain size mm	0.175
10% grain size mm	0.136
Coefficient of uniformity U_c	3.897
Coefficient of curvature U_c'	0.425

Grain size accumulation curve



App.3.101

Grain Size Analysis

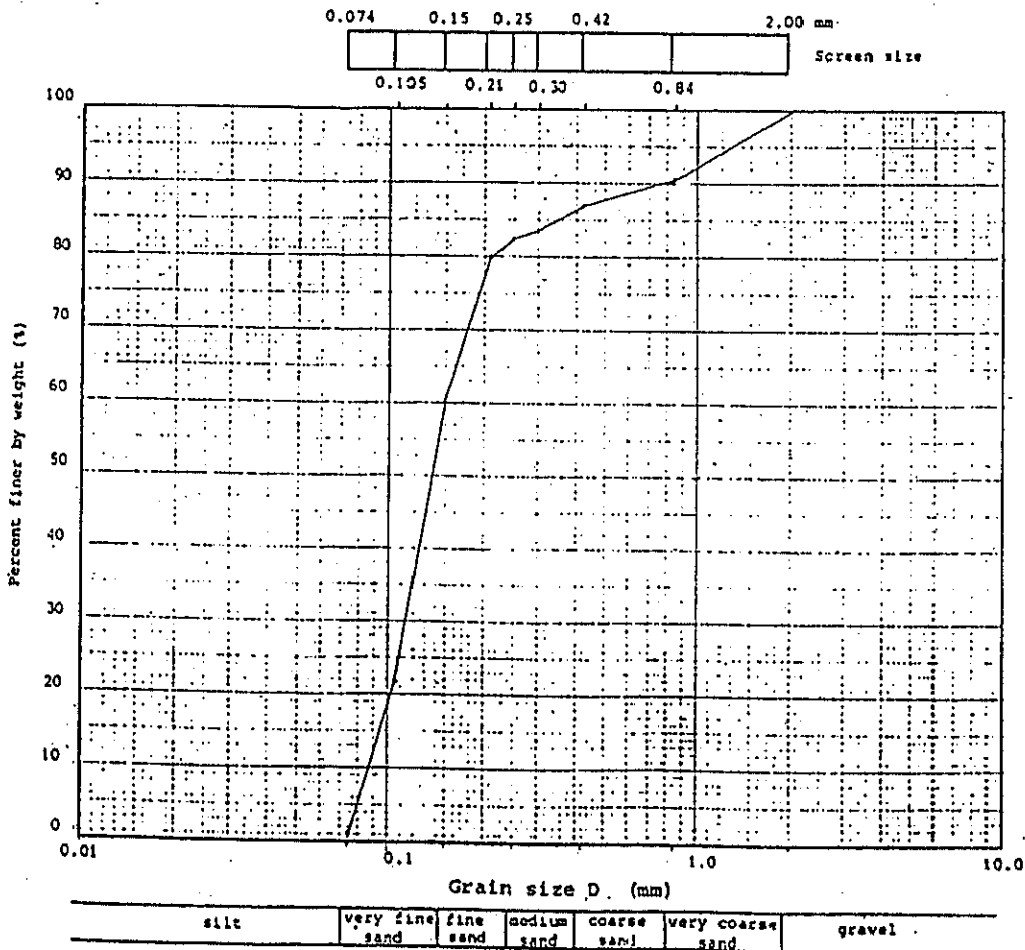
Sample No. 60 B
 Name of sample Beach Sand
 Locality Kuta Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	18.55	90.725
0.42	7.65	86.9
0.30	6.45	83.675
0.25	1.95	82.7
0.21	6.05	79.675
0.15	37.1	61.125
0.105	78.25	22.0
0.074	41.5	1.25
	2.50	-

Very coarse sand (2.00-0.84mm) %	9.275
Coarse sand (0.84-0.42mm) %	3.825
Medium sand (0.42-0.25mm) %	4.20
Fine sand (0.25-0.15mm) %	21.575
Very fine sand (0.15-0.074mm) %	59.875
Silt or clay (under 0.074mm) %	1.25
Maximum grain size mm	0.84
60% grain size mm	0.15
30% grain size mm	0.114
10% grain size mm	0.87
Coefficient of uniformity U_c	0.172
Coefficient of curvature U_c'	0.100

Grain size accumulation curve



App.3.102

Grain Size Analysis

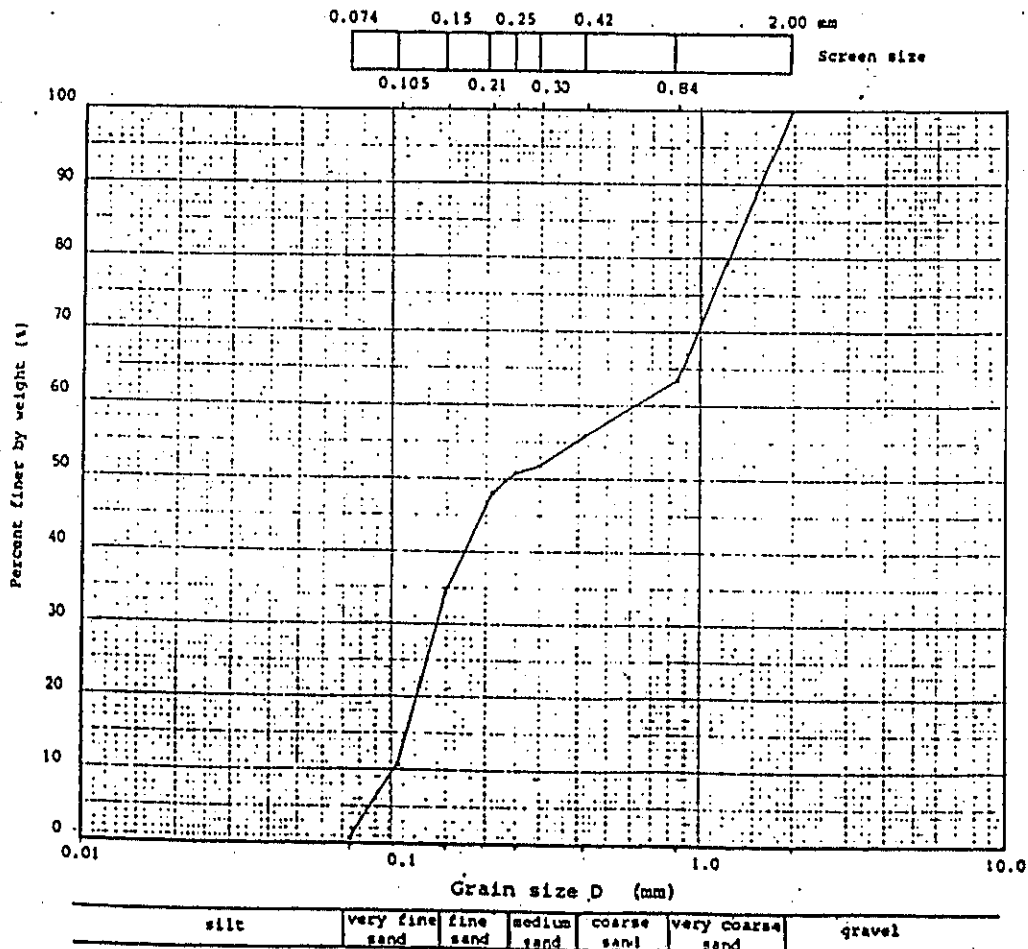
Sample No. 61 A
 Name of sample Beach Sand
 Locality Kuta Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	72.95	63.525
0.42	15.35	55.85
0.30	7.9	51.9
0.25	1.65	51.075
0.21	5.55	48.30
0.15	28.15	34.225
0.105	46.65	10.90
0.074	20.30	0.75
	1.50	-

Very coarse sand (2.00-0.84mm) %	36.475
Coarse sand (0.84-0.42mm) %	7.675
Medium sand (0.42-0.25mm) %	4.775
Fine sand (0.25-0.15mm) %	16.85
Very fine sand (0.15-0.074mm) %	33.475
Silt or clay (under 0.074mm) %	0.75
Maximum grain size mm	0.84
60% grain size mm	0.61
30% grain size mm	0.14
10% grain size mm	0.101
Coefficient of uniformity U_c	6.040
Coefficient of curvature U_c'	0.318

Grain size accumulation curve



App.3.103

Grain Size Analysis

Sample No. 61 B

Date _____

Name of sample Beach Sand

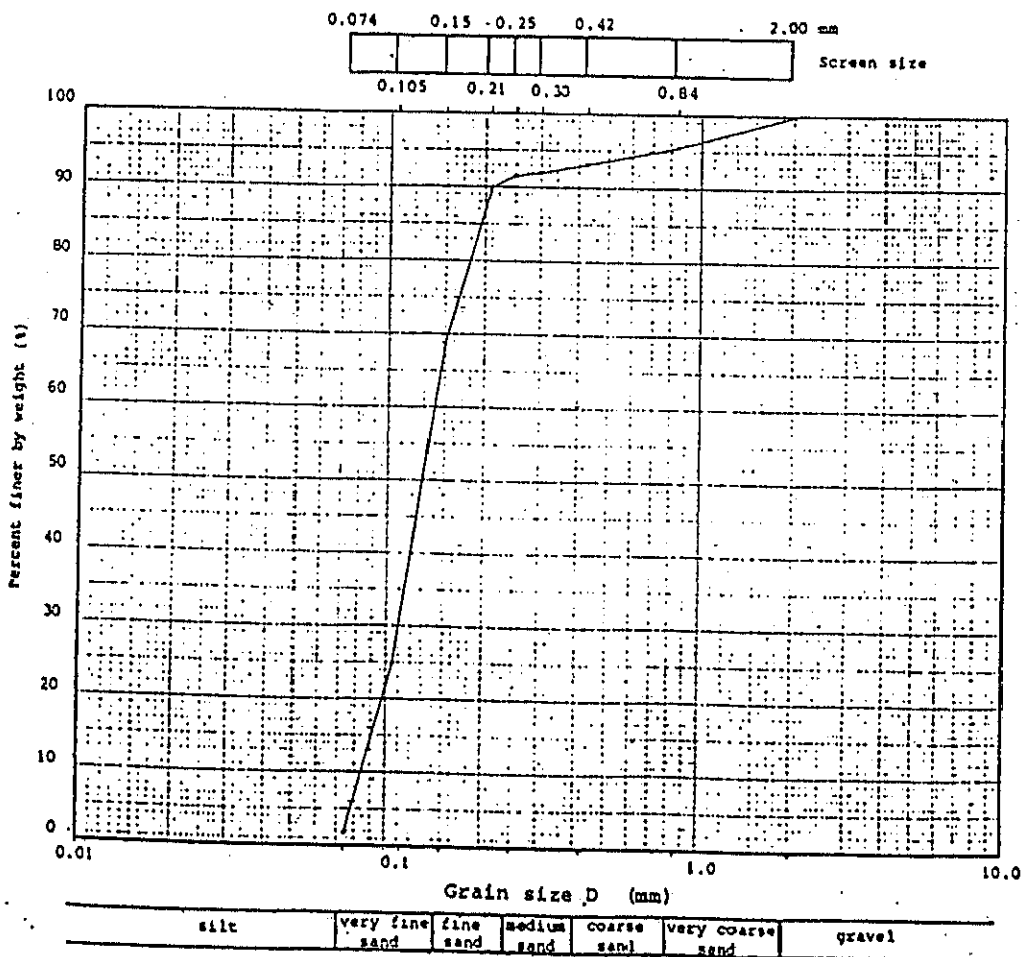
Signature _____

Locality Kuta Beach

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	9.0	95.50
0.42	4.15	93.425
0.30	3.0	91.925
0.25	0.55	91.65
0.21	2.90	90.20
0.15	42.90	68.75
0.105	87.65	24.925
0.074	46.25	1.80
	3.60	-

Very coarse sand (2.00-0.84mm) %	4.50
Coarse sand (0.84-0.42mm) %	2.075
Medium sand (0.42-0.25mm) %	1.775
Fine sand (0.25-0.15mm) %	22.90
Very fine sand (0.15-0.074mm) %	66.95
Silt or clay (under 0.074mm) %	1.80
Maximum grain size mm	0.84
60% grain size mm	0.14
30% grain size mm	0.11
10% grain size mm	0.084
Coefficient of uniformity U_c	1.667
Coefficient of curvature U_c'	1.029

Grain size accumulation curve



App.3.104

Grain Size Analysis

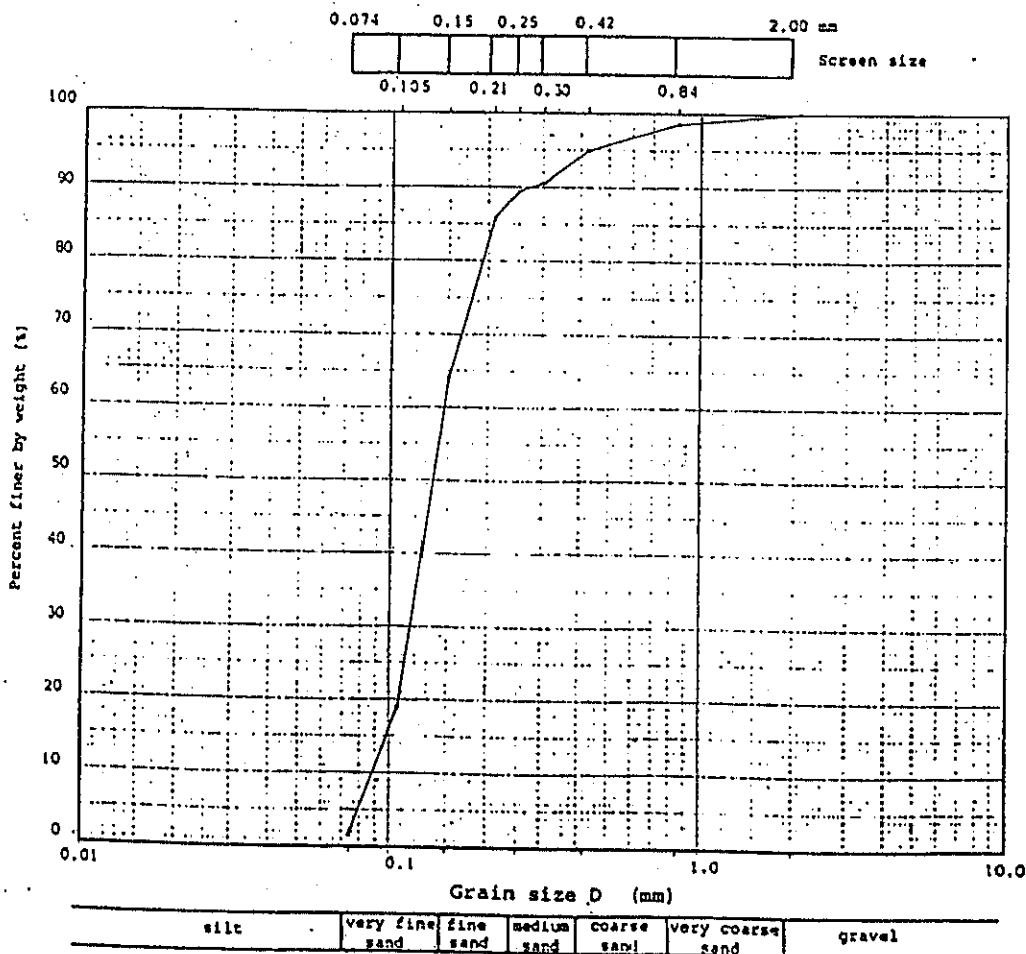
Sample No. 62 B
 Name of sample Beach Sand
 Locality Kuta Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	2.65	98.675
0.42	7.05	95.15
0.30	9.20	90.55
0.25	2.55	89.275
0.21	6.50	86.025
0.15	42.95	64.55
0.105	91.10	19.00
0.074	35.00	1.50
	3.00	-

		d
Very coarse sand	(2.00-0.84mm) %	1.325
Coarse sand	(0.84-0.42mm) %	3.525
Medium sand	(0.42-0.25mm) %	5.875
Fine sand	(0.25-0.15mm) %	24.725
Very fine sand	(0.15-0.074mm) %	63.05
Silt or clay	(under 0.074mm) %	1.50
Maximum grain size mm		0.84
60% grain size mm		0.145
30% grain size mm		0.118
10% grain size mm		0.089
Coefficient of uniformity	Uc	1.629
Coefficient of curvature	Uc'	1.079

Grain size accumulation curve



App.3.105

Grain Size Analysis

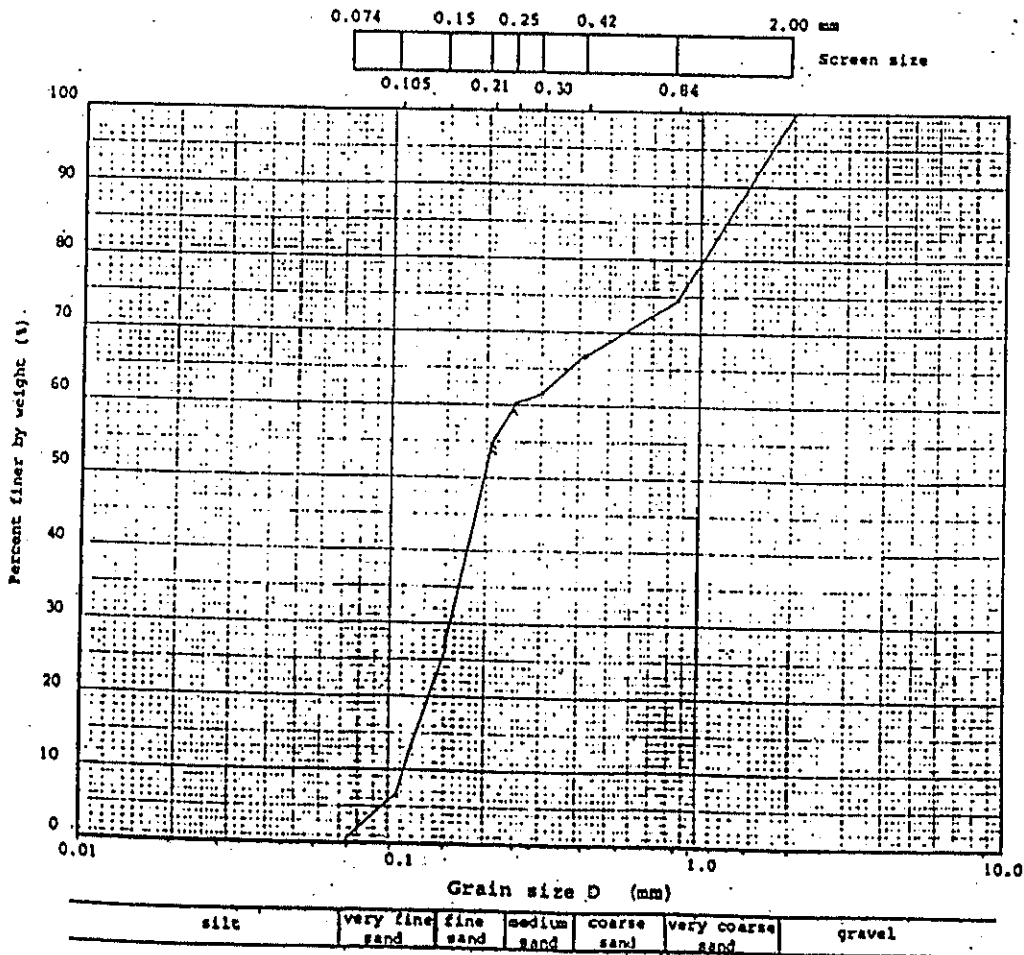
Sample No. 64 B
 Name of sample Bali Beach Sand
 Locality Kuta Beach

Date _____
 Signature _____

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	50.55	74.725
0.42	15.85	66.80
0.30	10.95	61.325
0.25	2.15	60.25
0.21	10.70	54.9
0.15	56.15	26.825
0.105	40.4	6.625
0.074	12.4	0.425
	0.85	-

Very coarse sand (2.00-0.84mm) %	25.275
Coarse sand (0.84-0.42mm) %	7.925
Medium sand (0.42-0.25mm) %	6.55
Fine sand (0.25-0.15mm) %	33.425
Very fine sand (0.15-0.074mm) %	26.4
Silt or clay (under 0.074mm) %	0.425
Maximum grain size mm	0.84
60% grain size mm	0.245
30% grain size mm	0.155
10% grain size mm	0.111
Coefficient of uniformity U_c	2.207
Coefficient of curvature U_c'	0.883

Grain size accumulation curve



Grain Size Analysis

Sample No. 65 A

Date _____

Name of sample Bali Beach Sand

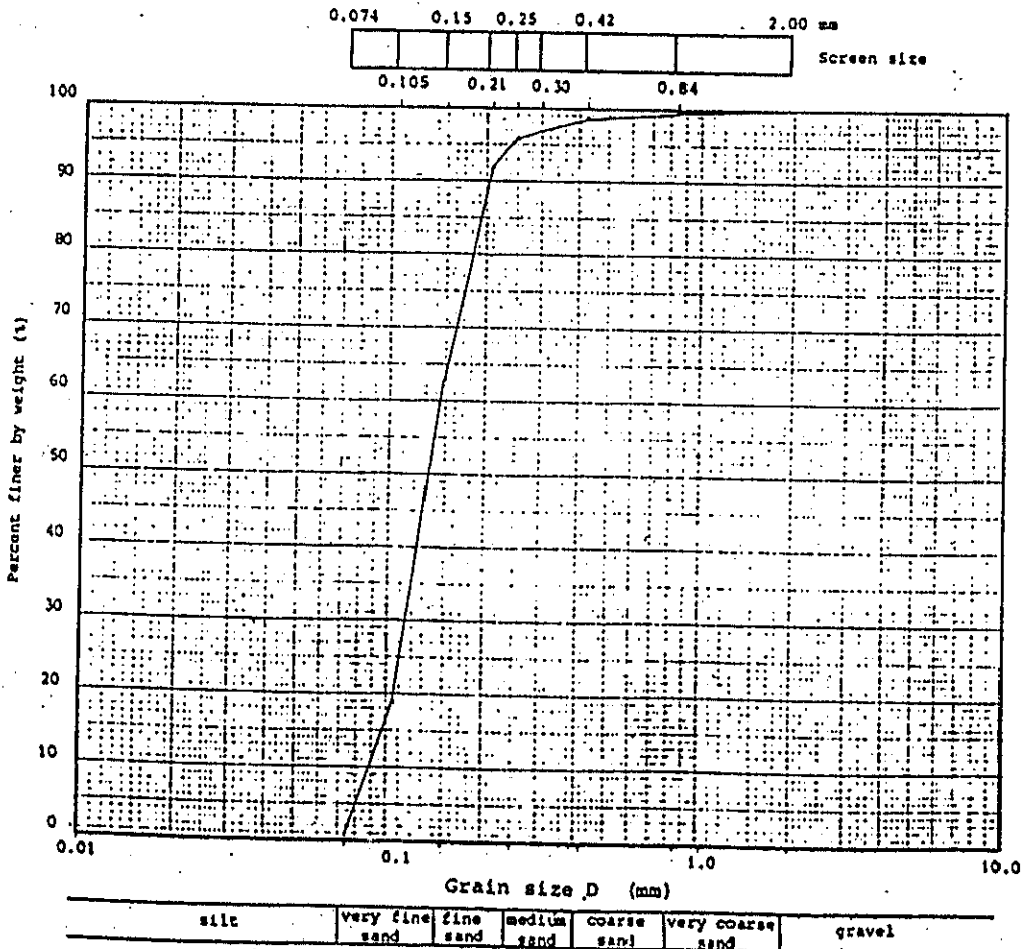
Signature _____

Locality Kuta Beach

Grain size (mm)	Weight (g)	Weight percent (%)
2.00		100
0.84	0.85	99.575
0.42	1.65	98.75
0.30	3.65	96.925
0.25	1.70	96.075
0.21	8.05	92.05
0.15	58.15	92.975
0.105	88.05	18.95
0.074	36.25	0.825
	1.65	-

Very coarse sand (2.00-0.84mm) %	0.425
Coarse sand (0.84-0.42mm) %	0.825
Medium sand (0.42-0.25mm) %	2.675
Fine sand (0.25-0.15mm) %	33.1
Very fine sand (0.15-0.074mm) %	62.15
Silt or clay (under 0.074mm) %	0.825
Maximum grain size mm	0.84
60% grain size mm	0.143
30% grain size mm	0.114
10% grain size mm	0.089
Coefficient of uniformity U_c	1.607
Coefficient of curvature U_c'	1.021

Grain size accumulation curve



App.3.107