

Data for Natural Condition Survey Report
for
The Study
on
Maintenance Dredging
in Access Channel of Banjarmasin Port
in
The Republic of Indonesia

[Vol. 4/9 2. Monthly Survey]
2.3 Bottom Material

JICA LIBRARY



1080792(3)

March 1990

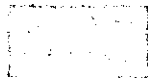
Japan International Cooperation Agency

Contents

2. Monthly Survey

2.3 Bottom Material

	Page
Table 2.3-1(1)-(60) Soil Test(Sampled During River Discharge Survey).....	1
Table 2.3-2(1)-(96) Soil Test(Sampled During Saline Wedge Survey).....	61
Table 2.3-3(1)-(60) Grain Size Test with Size Cumulative Curve(Sampled During River Discharge Survey).....	157
Table 2.3-4(1)-(96) Grain Size Test with Size Cumulative Curve(Sampled During Saline Wedge Survey).....	217
Table 2.3-5(1)-(12) Vane Shear Test(Sampled During River Discharge Survey).....	313
Table 2.3-6(1)-(15) Vane Shear Test(Sampled During Saline Wedge Survey).....	325
Table 2.3-7(1)-(12) Result of Grain Size Analysis.....	340



国際協力事業団

20844

Sampling Date during River Discharge Survey

Stage(St.)	Date
1st stage(F-1, F-2, F-3)	: 23th Sep. 1988
(F-4, F-5)	: 24th Sep. 1988
2nd stage(F-1, F-2, F-3, F-4, F-5)	: 19th Nov. 1988
3rd stage(F-1, F-2, F-3, F-4, F-5)	: 6th Dec. 1988
4th stage(F-1, F-2, F-3, F-4, F-5)	: 7th Jan. 1989
5th stage(F-1, F-2, F-3, F-4, F-5)	: 9th Feb. 1989
6th stage(F-1, F-2, F-3, F-4, F-5)	: 23th March 1989
7th stage(F-1, F-2, F-3, F-4, F-5)	: 26th April 1989
8th stage(F-1, F-2, F-3, F-4, F-5)	: 25th May 1989
9th stage(F-1, F-2, F-3, F-4, F-5)	: 20th June 1989
10th stage(F-1, F-2, F-3, F-4, F-5)	: 14th July 1989
11th stage(F-1, F-2, F-3, F-4, F-5)	: 30th July 1989
12th stage(F-1, F-2, F-3, F-4, F-5)	: 13th Aug. 1989

Sampling Date during Saline Wedge Survey

Stage(St.)	Date
1st stage(B,D,F,H) (A,C,E,G)	; 12th Oct. 1988 ; 15th Oct. 1988
2nd stage(D,F,I,J) (A,B,C,E)	; 11th Nov. 1988 ; 16th Nov. 1988
3rd stage(D,F,I,J) (A,B,C,E)	; 11th Dec. 1988 ; 14th Dec. 1988
4th stage(D,F,I,J) (A,B,C,E)	; 29th Dec. 1988 ; 3th Jan. 1989
5th stage(D,F,I,J) (A,B,C,E)	; 31th Jan.~ 1th Feb. 1989 ; 6th Feb. 1989
6th stage(D,F,I,J) (A,B,C,E)	; 16th -17th March 1989 ; 20th March 1989
7th stage(A,B,C,E) (D,F,I,J)	; 30th Apr. 1989 ; 13th May 1989
8th stage[D,F,I(E),J(E)] [A(E),B(E),C(E),E]	; 7th May 1989 ; 11th June 1989
9th stage[A(E),C(E),E,G] [B(E),D,F,H]	; 24th June 1989 ; 28th June 1989
10th stage(A,C,E,G) (B,D,F,H)	; 8th July 1989 ; 10th July 1989
11th stage[A(E),C(E),E,G] [B(E),D,F,H]	; 22th July 1989 ; 26th July 1989
12th stage(A,C,E,G) (B,D,F,H)	; 6th Aug. 1989 ; 10th Aug. 1989

Table 2.3-1 (1)~(60) Soil Test (Sampled During Discharge Survey)

Table 2. 3-1 (1) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Chann
of Banjarmasin Port.

Survey Item : Bottom Material of Monthly Survey

Testing Date : October 8, 1988

1st Stage (Sampled on 23rd Sep.at St. F-1,F-2,F-3 and
Sampled on 24th Sep.1988 at St.F-4 and F-5.)

Sample No. : F-1

Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m) %	:	-
Sand (74 - 2000 μ m)	% :	7.80
Silt (5 - 74 μ m)	% :	56.60
Clay (less than 5 μ m)	% :	35.60

Diameter of Maximum Grain mm : 0.84

Coefficient of Uniformity U_c : -

Coefficient of Curving Rate U_c' : -

Diameter of 50 % D_{50} mm : 0.0092

Diameter of 25 % D_{25} mm : 0.0032

Diameter of 75 % D_{75} mm : 0.0378

Sorting S_o : 0.29

Skewness S_k : 1.43

Specific Gravity G_s : 2.59

Natural Water Content W_n % : 160.1

Ignition Loss L_i % : 12.33

Shear Strength (In-situ Vane Test) kgf/cm² : 0.009

Notes

From In-situ Observation

Soil Name : M U D

Soil Color : Whitish brown

Others : Soft

From Soil Test : Clayey SILT trace sand

Table 2. 3-1 (2) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Chann
of Banjarmasin Port.

Survey Item : Bottom Material of Monthly Survey

Testing Date : October 8, 1988

1st Stage (Sampled on 23rd Sep. at St. F-1, F-2, F-3 and
Sampled on 24th Sep. 1988. at St. F-4 and F-5.)

Sample No. : F-2
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	-
Sand (74 - 2000 μ m)	%	:	13.50
Silt (5 - 74 μ m)	%	:	48.30
Clay (less than 5 μ m)	%	:	38.20
Diameter of Maximum Grain	mm	:	0.42
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.0084
Diameter of 25 %	D25	mm	: 0.0025
Diameter of 75 %	D75	mm	: 0.0322
Sorting	So	:	0.28
Skewness	Sk	:	1.14

Specific Gravity Gs : 2.60

Natural Water Content Wn % : 164.6

Ignition Loss Li % : 11.99

Shear Strength (In-situ Vane Test) kgf/cm² : 0.012

Notes

From In-situ Observation

Soil Name : M U D
Soil Color : Greenish black
Others : No SAND

From Soil Test : SILT and CLAY with some sand

Table 2. 3-1 (3) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Chanl of Banjarmasin Port.

Survey Item : Bottom Material of Monthly Survey

Testing Date : October 8, 1988

1st Stage (Sampled on 23rd Sep.at St. F-1,F-2,F-3 and
Sampled on 24th Sep.1988 at St.F-4 and F-5.)

Sample No. : F-3
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m) % : -
Sand (74 - 2000 μ m) % : 26.50
Silt (5 - 74 μ m) % : 39.30
Clay (less than 5 μ m) % : 34.20

Diameter of Maximum Grain mm : 0.84

Coefficient of Uniformity U_c : -
Coefficient of Curving Rate U_c' : -

Diameter of 50 % D_{50} mm : 0.0126
Diameter of 25 % D_{25} mm : 0.0029
Diameter of 75 % D_{75} mm : 0.0851

Sorting S_o : 0.18
Skewness S_k : 1.55

Specific Gravity G_s : 2.68

Natural Water Content W_n % : 121.4

Ignition Loss L_i % : 11.42

Shear Strength (In-situ Vane Test) kgf/cm² : 0.012

Notes

From In-situ Observation

Soil Name : SAND (Coarse) MUD
Soil Color : Brown Greenish black
Others : Surface (5 cm)

From Soil Test : Sandy clayey SILT

Table 2. 3-1 (4) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Chanr
of Banjarmasin Port.

Survey Item : Bottom Material of Monthly Survey

Testing Date : October 8, 1988

1st Slage (Sampled on 23rd Sep.at St. F-1,F-2,F-3 and
Sampled on 24th Sep.1988 at St.F-4 and F-5.)

Sample No. : F-4
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μm)	%	:	-
Sand (74 - 2000 μm)	%	:	100.00
Silt (5 - 74 μm)	%	:	-
Clay (less than 5 μm)	%	:	-
Diameter of Maximum Grain	mm	:	0.84
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.1580
Diameter of 25 %	D25	mm	: 0.093
Diameter of 75 %	D75	mm	: 0.2020
Sorting	So	:	0.68
Skewness	Sk	:	0.75

Specific Gravity Gs : 2.72

Natural Water Content Wn % : 37.5

Ignition Loss Li % : 2.55

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.009

Notes

From In-situ Observation

Soil Name : muddy SAND
Soil Color :
Others : Soft

From Soil Test : Fine SAND

Table 2. 3-1 (5) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Chanr
of Banjarmasin Port.

Survey Item : Bottom Material of Monthly Survey

Testing Date : October 8, 1988

1st Stage (Sampled on 23rd Sep.at St. F-1,F-2,F-3 and
Sampled on 24th Sep.1988 at St.F-4 and F-5.)

Sample No. : F-5
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	-
Sand (74 - 2000 μ m)	%	:	19.50
Silt (5 - 74 μ m)	%	:	49.30
Clay (less than 5 μ m)	%	:	31.20
Diameter of Maximum Grain	mm	:	0.42
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50 mm	:	0.0142
Diameter of 25 %	D25 mm	:	0.0038
Diameter of 75 %	D75 mm	:	0.0610
Sorting	So	:	0.25
Skewness	Sk	:	1.15

Specific Gravity Gs : 2.62

Natural Water Content Wn % : 94.7

Ignition Loss Li % : 8.71

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.008

Notes

From In-situ Observation

Soil Name : CLAY with sand grain
Soil Color : Brown grey
Others : Surface (2 cm) very soft

From Soil Test : Clayey SILT with some sand

Table 2.3-1 (6) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in -
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge stat.) of
Monthly Survey

Testing Date : December 7 - 14, 1988

2nd Stage (Sampled on 19th Nov.1988)

Sample No. : F-1
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	-
Sand (74 - 2000 μ m)	%	:	2.92
Silt (5 - 74 μ m)	%	:	44.58
Clay (less than 5 μ m)	%	:	52.50
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.0042
Diameter of 25 %	D25	mm	: -
Diameter of 75 %	D75	mm	: 0.015
Sorting	Sp	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.52

Natural Water Content Wn % : 148.85

Ignition Loss Li % : 12.53

Shear Strength (In-situ Vane Test) kgf/cm² : 0.019

Notes

From In-situ Observation

Soil Name : M U D
Soil Color : Brown (surface)
Dark grey (inside)
Others : Brown mud is very thin
(surface)
From Soil Test : SILT and CLAY trace sand

Table 2.3-1 (7) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in -
The Access Channel of Banjarmasin Fort.

Survey Item : Bottom Material (Discharge stat.) of
Monthly Survey

Testing Date : December 7 - 14, 1988

2nd Stage (Sampled on 19th Nov.1988)

Sample No. : F-2
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m) %	:	-
Sand (74 - 2000 μ m) %	:	9.42
Silt (5 - 74 μ m) %	:	54.58
Clay (less than 5 μ m) %	:	36.00
Diameter of Maximum Grain mm	:	2.00
Coefficient of Uniformity U_c	:	-
Coefficient of Curving Rate U_c'	:	-
Diameter of 50 % D_{50} mm	:	0.020
Diameter of 25 % D_{25} mm	:	0.002
Diameter of 75 % D_{75} mm	:	0.047
Sorting S_o	:	0.21
Skewness S_k	:	0.24

Specific Gravity G_s : 2.59

Natural Water Content W_n % : 99.89

Ignition Loss L_i % : 10.20

Chear Strength (In-situ Vane Test) kgf/cm^2 : 0.012

Notes

From In-situ Observation

Soil Name : M U 0
Soil Color : Brown (surface)
Dark gray (inside)
Others :

From Soil Test : Clayey SILT with some sand

Table 2.3-1 (8) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in -
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge stat.) of
Monthly Survey

Testing Date : December 7 - 14, 1988

2nd Stage (Sampled on 19th Nov.1988)

Sample No. : F-3
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	-
Sand (74 - 2000 μ m)	%	:	8.94
Silt (5 - 74 μ m)	%	:	38.50
Clay (less than 5 μ m)	%	:	52.56
Diameter of Maximum Grain	mm	:	2.00
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.004
Diameter of 25 %	D25	mm	: -
Diameter of 75 %	D75	mm	: 0.028
Sorting	Su	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.58

Natural Water Content Wn % : 166.02

Ignition Loss Li % : 12.56

Shear Strength (In-situ Vane Test) kgf/cm² : 0.012

Notes

From In-situ Observation

Soil Name : M U D
Soil Color : G r a y
Others : Very soft

From Soil Test : SILT and CLAY with some sand

Table 2.3-1 (9) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in -
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge stat.) of
Monthly Survey

Testing Date : December 7 - 14, 1988

2nd Stage (Sampled on 19th Nov.1988)

Sample No. : F-4
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	-
Sand (74 - 2000 μ m)	%	:	88.50
Silt (5 - 74 μ m)	%	:	11.50
Clay (less than 5 μ m)	%	:	-
Diameter of Maximum Grain	mm	:	2.00
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.15
Diameter of 25 %	D25	mm	: 0.13
Diameter of 75 %	D75	mm	: 0.18
Sorting	So	:	0.85
Skewness	Sk	:	1.04

Specific Gravity Gs : 2.64

Natural Water Content Wn % : 56.28

Ignition Loss Li % : 5.87

Shear Strength (In-situ Vane Test) kgf/cm² : 0.012

Notes

From In-situ Observation

Soil Name : M U D
Soil Color : G r e y
Others : Very soft

From Soil Test : Fine SAND with some silt

Table 2. 3-1 (10) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in -
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge stat.) of
Monthly Survey

Testing Date : December 7 - 14, 1988

2nd Stage (Sampled on 19th Nov.1988)

Sample No. : F-5
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	-
Sand (74 - 2000 μ m)	%	:	19.00
Silt (5 - 74 μ m)	%	:	37.00
Clay (less than 5 μ m)	%	:	44.00
Diameter of Maximum Grain	mm	:	2.00
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.008
Diameter of 25 %	D25	mm	: -
Diameter of 75 %	D75	mm	: 0.055
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.59

Natural Water Content Wn % : 101.41

Ignition Loss Li % : 9.84

Shear Strength (In-situ Vane Test) kgf/cm² : 0.07

Notes

From In-situ Observation

Soil Name : MEDIUM MUD
Soil Color : G r e y
Others : Very soft

From Soil Test : Silty CLAY with some sand

Table 2. 3-1 (II) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey.

Testing Date : January 10 - 18, 1987.

3rd Stage (Sampled on 6th Dec.1988)

Sample No. : F-1
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	0.96
Silt (5 - 74 um) %	:	44.72
Clay (less than 5 um) %	:	54.52
Diameter of Maximum Grain mm	:	-
Coefficient of Uniformity Uc	:	-
Coefficient of Curving Rate Uc'	:	-
Diameter of 50 % D50 mm	:	0.004
Diameter of 25 % D25 mm	:	-
Diameter of 75 % D75 mm	:	0.012
Sorting So	:	-
Skewness Sk	:	-

Specific Gravity Gs : 2.536

Natural Water Content Wn % : 146.59

Ignition Loss Li % : 12.55

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.014

Notes

From In-situ Observation

Soil Name : MEDIUM MUD
Soil Color : Grey
Others : Very Soft

Form Soil Test : CLAY and SILT

Table 2.3-1 (12) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey.

Testing Date : January 10 - 18, 1989.

3rd Stage (Sampled on 6th Dec.1988)

Sample No. : F-2
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	0.04
Sand (74 - 2000 um)	%	:	17.96
Silt (5 - 74 um)	%	:	34.50
Clay (less than 5 um)	%	:	47.50

Diameter of Maximum Grain mm : -

Coefficient of Uniformity U_c : -

Coefficient of Curving Rate U_c¹ : -

Diameter of 50 % D₅₀ mm : 0.0065

Diameter of 25 % D₂₅ mm : -

Diameter of 75 % D₇₅ mm : 0.062

Sorting S_o : -

Skewness S_k : -

Specific Gravity G_s : 2.581

Natural Water Content W_n % : 134.29

Ignition Loss L_i % : 10.26

Shear Strength (In-situ Vane Test) kgf/cm² : 0.009

Notes

From In-situ Observation

Soil Name : M U D

Soil Color : Brown (surface)
Grey (inside)

Others : Very Soft

Form Soil Test : Silty CLAY with some sand.

Table 2. 3-1 (13) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey.

Testing Date : January 10 - 18, 1989.

3rd Stage (Sampled on 6th Dec.1988)

Sample No. : F-3
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	16.00
Silt (5 - 74 um) %	:	42.00
Clay (less than 5 um) %	:	42.00
Diameter of Maximum Grain mm	:	-
Coefficient of Uniformity Uc	:	-
Coefficient of Curving Rate Uc'	:	-
Diameter of 50 % D50 mm	:	0.0092
Diameter of 25 % D25 mm	:	-
Diameter of 75 % D75 mm	:	0.056
Sorting So	:	-
Skewness Sk	:	-

Specific Gravity Gs : 2.567

Natural Water Content Wn % : 121.12

Ignition Loss Li % : 10.06

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.015

Notes

From In-situ Observation

Soil Name : M U D
Soil Color : Dark Grey
Others :

Form Soil Test : CLAY and SILT with some sand

Table 2. 3-1 (M) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey.

Testing Date : January 10 - 18, 1989.

3rd Stage (Sampled on 6th Dec.1988)

Sample No. : F-4
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	59.00
Silt (5 - 74 um) %	:	27.00
Clay (less than 5 um) %	:	14.00
Diameter of Maximum Grain mm	:	-
Coefficient of Uniformity U _c	:	5.83
Coefficient of Curving Rate U _c ¹	:	1.90
Diameter of 50 % D ₅₀ mm	:	0.09
Diameter of 25 % D ₂₅ mm	:	0.049
Diameter of 75 % D ₇₅ mm	:	0.13
Sorting S _o	:	0.61
Skewness S _k	:	0.79

Specific Gravity G_s : 2.617

Natural Water Content W_n % : 91.12

Ignition Loss L_i % : 5.47

Shear Strength (In-situ Vane Test) kgf/cm² : 0.027

Notes

From In-situ Observation

Soil Name : FINE SAND (surface)
SILTY CLAY (inside)
Soil Color : Yellowish brown
Dark grey
Others :

Form Soil Test : Silty SAND with some clay

Table 2. 3-1 (15) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey.

Testing Date : January 10 - 18, 1989.

3rd Stage (Sampled on 6th Dec.1988)

Sample No. : F-5
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	-
Sand (74 - 2000 um)	%	:	13.10
Silt (5 - 74 um)	%	:	32.40
Clay (less than 5 um)	%	:	54.50
Diameter of Maximum Grain	mm	:	-
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50 mm	:	0.003
Diameter of 25 %	D25 mm	:	-
Diameter of 75 %	D75 mm	:	0.41
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.597

Natural Water Content Wn % : 98.01

Ignition Loss Li % : 9.71

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.017

Notes

From In-situ Observation

Soil Name : M U D
Soil Color : Grey
Others : Very Soft

Form Soil Test : Silty CLAY with some sand

Table 2. 3-1 (16) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge stat.)
of Monthly Survey

Testing Date : January 23 - 31, 1989

4th Stage (Sampled on 7th Jan.1989)

Sample No. : F-1
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	2.00
Silt (5 - 74 um) %	:	44.0
Clay (less than 5 um) %	:	54.0
Diameter of Maximum Grain mm	:	2.00
Coefficient of Uniformity Uc	:	-
Coefficient of Curving Rate Uc'	:	-
Diameter of 50 % D50 mm	:	0.0042
Diameter of 25 % D25 mm	:	-
Diameter of 75 % D75 mm	:	0.013
Sorting So	:	-
Skewness Sk	:	-

Specific Gravity Gs : 2.550

Natural Water Content Wn % : 140.70

Ignition Loss Li % : 15.43

Shear Strength (In-situ Vane Test) kgf/cm² : 0.024

Notes

From In-situ Observation

Soil Name : SILT
Soil Color : Brownish Grey
Others :

Form Soil Test : CLAY and SILT trace sand

Table 2. 3-1 (17) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge stat.)
of Monthly Survey

Testing Date : January 23 - 31, 1989

4th Stage (Sampled on 7th Jan.1989)

Sample No. : F-2
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	8.00
Silt (5 - 74 um) %	:	38.00
Clay (less than 5 um) %	:	54.00
Diameter of Maximum Grain mm	:	2.00
Coefficient of Uniformity Uc	:	-
Coefficient of Curving Rate Uc'	:	-
Diameter of 50 % D50 mm	:	0.003
Diameter of 25 % D25 mm	:	-
Diameter of 75 % D75 mm	:	0.026
Sorting So	:	-
Skewness Sk	:	-

Specific Gravity Gs : 2.581

Natural Water Content Wn % : 112.71

Ignition Loss Li % : 10.38

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.014

Notes

From In-situ Observation

Soil Name : SILT
Soil Color : Brownish Grey
Others :

Form Soil Test : CLAY and SILT trace sand

Table 2. 3-1 (18) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge stat.)
of Monthly Survey

Testing Date : January 23 - 31, 1989

4th Stage (Sampled on 7th Jan.1989)

Sample No. : F-3
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	-
Sand (74 - 2000 μ m)	%	:	5.50
Silt (5 - 74 μ m)	%	:	40.50
Clay (less than 5 μ m)	%	:	54.00
Diameter of Maximum Grain	mm	:	0.84
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.0039
Diameter of 25 %	D25	mm	: -
Diameter of 75 %	D75	mm	: 0.018
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.570

Natural Water Content Wn % : 112.91

Ignition Loss Li % : 14.80

Shear Strength (In-situ Vane Test) kgf/cm² : 0.039

Notes

From In-situ Observation

Soil Name	:	CLAY
Soil Color	:	Brown (surface) Grey (inside)
Others	:	Brown silt is very thin (surface)
Form Soil Test	:	CLAY and SILT trace sand

Table 2. 3-1 (19) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge stat.)
of Monthly Survey

Testing Date : January 23 - 31, 1989

4th Stage (Sampled on 7th Jan.1989)

Sample No. : F-4
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	0.02
Sand (74 - 2000 um) %	:	95.18
Silt (5 - 74 um) %	:	4.80
Clay (less than 5 um) %	:	-
Diameter of Maximum Grain mm	:	4.76
Coefficient of Uniformity Uc	:	1.00
Coefficient of Curving Rate Uc'	:	1.6
Diameter of 50 % D50 mm	:	0.18
Diameter of 25 % D25 mm	:	0.15
Diameter of 75 % D75 mm	:	0.17
Sorting So	:	0.94
Skewness Sk	:	0.79

Specific Gravity Gs : 2.621

Natural Water Content Wn % : 42.08

Ignition Loss Li % : 0.92

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.015

Notes

From In-situ Observation

Soil Name : MEDIUM SAND
Soil Color : Yellowish Brown
Others :

Form Soil Test : Fine SAND trace silt,
fine gravel

Table 2. 3-1 (2) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge stat.)
of Monthly Survey

Testing Date : January 23 - 31, 1989

4th Stage (Sampled on 7th Jan.1989).

Sample No. : F-5
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	6.00
Silt (5 - 74 um)	:	44.0
Clay (less than 5 um) %	:	50.0
Diameter of Maximum Grain mm	:	2.00
Coefficient of Uniformity U _c	:	-
Coefficient of Curving Rate U _{c'}	:	-
Diameter of 50 % D ₅₀ mm	:	0.0055
Diameter of 25 % D ₂₅ mm	:	-
Diameter of 75 % D ₇₅ mm	:	0.032
Sorting S _o	:	-
Skewness S _k	:	-

Specific Gravity G_s : 2.587

Natural Water Content W_n % : 98.76

Ignition Loss L_i % : 10.78

Shear Strength (In-situ Vane Test) kgf/cm² : 0.017

Notes

From In-situ Observation

Soil Name : CLAY SILT
Soil Color : Grey
Others : Silt is very thin (surface)

Form Soil Test : CLAY and SILT trace sand

Table 2. 3--1 (21) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station) of Monthly Survey

Testing Date : March 23 - 30. 1989

5th Stage (Sampled on 9th Feb.1989)

 Sample No. : F-1
 Depth :

 Characteristics of Grain Distribution

Gravel (more than 2000 Um)	%	:	0.12
Sand (74 - 2000 Um)	%	:	1.08
Silt (5 - 74 Um)	%	:	38.80
Clay (less than 5 Um)	%	:	60.00
Diameter of Maximum Grain	mm	:	4.760
Coefficient of Uniformity	Uc	:	--
Coefficient of Curving Rate	Uc'	:	--
Diameter of 50 % (D 50)	mm	:	0.0030
Diameter of 25 % (D 25)	mm	:	--
Diameter of 75 % (D 75)	mm	:	0.0100
Sorting	So	:	--
Skewness	Sk	:	--

 Specific Gravity Gs : 2.59

 Natural Water Content Wn % : 134.08

 Ignition Loss Li % : 12.15

 Shear Strength (In-situ Vane Test) kgf/cm² : 0.031

NOTES

From In-situ Observation

Soil Name : Silt

Soil Color : Brownish Grey (Surface)
 Grey (Inside)

Others :

From Soil Test

: SILT and CLAY

Table 2.3-1 (2) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station) of Monthly Survey

Testing Date : March 23 - 30. 1989

5th Stage (Sampled on 9th Feb.1989)

Sample No. : f-2
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 Um)	%	:	0.02
Sand (74 - 2000 Um)	%	:	7.42
Silt (5 - 74 Um)	%	:	38.56
Clay (less than 5 Um)	%	:	54.00
Diameter of Maximum Grain	mm	:	4.760
Coefficient of Uniformity	Uc	:	--
Coefficient of Curving Rate	Uc'	:	--
Diameter of 50 % (D 50)	mm	:	0.0038
Diameter of 25 % (D 25)	mm	:	--
Diameter of 75 % (D 75)	mm	:	0.0220
Sorting	So	:	--
Skewness	Sk	:	--

Specific Gravity Gs : 2.62

Natural Water Content Wn % : 113.01

Ignition Loss Li % : 9.50

Shear Strength (In-situ Vane Test) kgf/cm² : 0.014

NOTES

From In-situ Observation

Soil Name : Soft Silt

Soil Color : Brownish Grey

Others :

From Soil Test

: CLAY and SILT

Table 2. 3-1 (2) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station) of Monthly Survey

Testing Date : March 23 - 30. 1989

5th Stage (Sampled on 9th Feb.1989)

Sample No. : F-3
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 Um)	%	:	--
Sand (74 - 2000 Um)	%	:	3.54
Silt (5 - 74 Um)	%	:	46.46
Clay (less than 5 Um)	%	:	50.00
Diameter of Maximum Grain	mm	:	2.000
Coefficient of Uniformity	Uc	:	--
Coefficient of Curving Rate	Uc'	:	--
Diameter of 50 % (D 50)	mm	:	0.0050
Diameter of 25 % (D 25)	mm	:	--
Diameter of 75 % (D 75)	mm	:	0.0180
Sorting	So	:	--
Skewness	Sk	:	--

Specific Gravity Gs : 2.64

Natural Water Content Wn % : 132.65

Ignition Loss Li % : 11.48

Shear Strength (In-situ Vane Test) kgf/cm² : 0.026

NOTES

From In-situ Observation

Soil Name : Clay

Soil Color : Brownish Grey

Others :

From Soil Test

: SILT and CLAY trace Sand

Table 2.3-1 (25) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station) of Monthly Survey

Testing Date : March 23 - 30. 1989

5th Stage (Sampled on 9th Feb.1989)

Sample No. : F-5.
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 Um)	%	:	--
Sand (74 - 2000 Um)	%	:	23.06
Silt (5 - 74 Um)	%	:	46.44
Clay (less than 5 Um)	%	:	30.50
Diameter of Maximum Grain	mm	:	2.000
Coefficient of Uniformity	Uc	:	--
Coefficient of Curving Rate	Uc'	:	--
Diameter of 50 % (D 50)	mm	:	0.0220
Diameter of 25 % (D 25)	mm	:	0.0033
Diameter of 75 % (D 75)	mm	:	0.0650
Sorting	So	:	0.23
Skewness	Sk	:	0.44

Specific Gravity Gs : 2.67

Natural Water Content Wn % : 98.94

Ignition Loss Li % : 8.85

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.020

NOTES

From In-situ Observation

Soil Name : Silt with little Sand Grain

Soil Color : Brown Silt is very thin (Surface)
Dark Grey (Inside)

Others :

From Soil Test

: Sandy Clayey SILT

Table 2. 3-1 (26) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station) of Monthly Survey

Testing Date : March. 1989

6th Stage (Sampled on 23rd Mar.1989)

Sample No. : F-1
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 Um)	%	:	0.06
Sand (74 - 2000 Um)	%	:	5.86
Silt (5 - 74 Um)	%	:	44.08
Clay (less than 5 Um)	%	:	50.00
Diameter of Maximum Grain	mm	:	4.760
Coefficient of Uniformity	Uc	:	--
Coefficient of Curving Rate	Uc'	:	--
Diameter of 50 % (D 50)	mm	:	0.0050
Diameter of 25 % (D 25)	mm	:	--
Diameter of 75 % (D 75)	mm	:	0.0200
Sorting	So	:	--
Skewness	Sk	:	--

Specific Gravity Gs : 2.54

Natural Water Content Wn % : 144.66

Ignition Loss Li % : 13.65

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.020

NOTES

From In-situ Observation

Soil Name : S i l t

Soil Color : Brownish Grey

Others :

From Soil Test

: SILT and CLAY trace Sand

Table 2.3-1 (2) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Channel of Banjarmasin Port.
 Survey Item : Bottom Material (Discharge Station) of Monthly Survey
 Testing Date : March. 1989
 6th Stage (Sampled on 23rd Mar.1989)

 Sample No. : F-2
 Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 Um)	%	:	--
Sand (74 - 2000 Um)	%	:	15.25
Silt (5 - 74 Um)	%	:	34.75
Clay (less than 5 Um)	%	:	50.00
Diameter of Maximum Grain	mm	:	2.000
Coefficient of Uniformity	Uc	:	--
Coefficient of Curving Rate	Uc'	:	--
Diameter of 50 % (D 50)	mm	:	0.0050
Diameter of 25 % (D 25)	mm	:	--
Diameter of 75 % (D 75)	mm	:	0.0450
Sorting	So	:	--
Skewness	Sk	:	--

 Specific Gravity Gs : 2.61

Natural Water Content Wn % : 118.58

Ignition Loss Li % : 11.01

Shear Strength (In-situ Vane Test) kgf/cm² : 0.015

NOTES

From In-situ Observation
 Soil Name : Silt with Fine Sand Grain
 Soil Color : Brownish Grey
 Others :

From Soil Test
 : Silty CLAY - some Sand

Table 2.3-1 (2) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station) of Monthly Survey

Testing Date : March. 1989

6th Stage (Sampled on 23rd Mar.1989)

Sample No. : F-4
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 Um)	%	:	0.13
Sand (74 - 2000 Um)	%	:	99.87
Silt (5 - 74 Um)	%	:	--
Clay (less than 5 Um)	%	:	--
Diameter of Maximum Grain	mm	:	4.760
Coefficient of Uniformity	Uc	:	1.38
Coefficient of Curving Rate	Uc'	:	1.41
Diameter of 50 % (D 50)	mm	:	0.1800
Diameter of 25 % (D 25)	mm	:	0.1300
Diameter of 75 % (D 75)	mm	:	0.2000
Sorting	So	:	0.81
Skewness	Sk	:	0.81

Specific Gravity Gs : 2.68

Natural Water Content Wn % : 69.82

Ignition Loss Li % : 6.40

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.010

NOTES

From In-situ Observation

Soil Name : Fine Sand (Surface)
Sand with Mineral Organic (Inside)
Soil Color : Yellowish Brown
Others :

From Soil Test

: F I N E S A N D

Table 2. 3-1 (30) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Channel of Banjarmasin Port.
 Survey Item : Bottom Material (Discharge Station) of Monthly Survey
 Testing Date : March, 1989
 6th Stage (Sampled on 23rd Mar.1989)

 Sample No. : F-5
 Depth :

 Characteristics of Grain Distribution

Gravel (more than 2000 Um)	%	:	0.11
Sand (74 - 2000 Um)	%	:	25.86
Silt (5 - 74 Um)	%	:	38.03
Clay (less than 5 Um)	%	:	36.00
Diameter of Maximum Grain	mm	:	4.760
Coefficient of Uniformity	Uc	:	--
Coefficient of Curving Rate	Uc'	:	--
Diameter of 50 % (D 50)	mm	:	0.0300
Diameter of 25 % (D 25)	mm	:	0.0022
Diameter of 75 % (D 75)	mm	:	0.0900
Sorting	So	:	0.16
Skewness	Sk	:	0.22

 Specific Gravity Gs : 2.68

 Natural Water Content Wn % : 95.61

 Ignition Loss Li % : 9.56

 Shear Strength (In-situ Vane Test) kgf/cm² : 0.024

 NOTES

From In-situ Observation

Soil Name : Soft Silt (Surface)
 Alternation of Silt and Clay (Inside)
 Soil Color : Greyish Brown (Surface)
 Grey (Inside)
 Others :

From Soil Test

: Sandy SILT and CLAY

Table 2. 3-1 (3) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge stat.) of
Monthly Survey

Testing Date : June, 1989

7th Stage (Sampled on 26th Apr.1989)

Sample No. : F-1
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	-
Sand (74 - 2000 um)	%	:	0.80
Silt (5 - 74 um)	%	:	43.20
Clay (less than 5 um)	%	:	56.00
Diameter of Maximum Grain	mm	:	2.00
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.0034
Diameter of 25 %	D25	mm	: -
Diameter of 75 %	D75	mm	: 0.013
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.58

Natural Water Content Wn % : 122.13

Ignition Loss Li % : 12.62

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.031

Notes

From In-situ Observation

Soil Name : Soft Silt (Surface)
Silt (Inside)
Soil Color : Brown (Surface)
Grey (Inside)
Others : With little mineral organic
(Inside)
Form Soil Test : CLAY and SILT

Table 2. 3-1 (32) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge stat.) of
Monthly Survey

Testing Date : June, 1989

7th Stage (Sampled on 26th Apr.1989)

Sample No. : F-2
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m) %	:	-
Sand (74 - 2000 μ m) %	:	6.31
Silt (5 - 74 μ m) %	:	41.69
Clay (less than 5 μ m) %	:	52.00
Diameter of Maximum Grain, mm	:	2.00
Coefficient of Uniformity U_c	:	-
Coefficient of Curving Rate U_c'	:	-
Diameter of 50 % D_{50} mm	:	0.0043
Diameter of 25 % D_{25} mm	:	-
Diameter of 75 % D_{75} mm	:	0.02
Sorting S_o	:	-
Skewness S_k	:	-

Specific Gravity G_s : 2.57

Natural Water Content W_n % : 128.20

Ignition Loss L_i % : 12.71

Shear Strength (In-situ Vane Test) kgf/cm^2 : 0.024

Notes

From In-situ Observation

Soil Name : Soft Silt with Fine Sand Grain
(Surface) Silt with Fine Sand
Grain (Inside)

Soil Color : Greyish Brown (Surface)
Brownish Grey (Inside)

Others :

Form Soil Test : CLAY and SILT

Table 2. 3-1 (3A) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge stat.) of
Monthly Survey

Testing Date : June, 1989

7th Stage (Sampled on 26th Apr.1989)

Sample No. : F-4

Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	0.04
Sand (74 - 2000 um)	%	:	85.35
Silt (5 - 74 um)	%	:	14.61
Clay (less than 5 um)	%	:	-
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50 mm	:	0.17
Diameter of 25 %	D25 mm	:	0.12
Diameter of 75 %	D75 mm	:	0.185
Sorting	So	:	0.81
Skewness	Sk	:	0.77

Specific Gravity Gs : 2.66

Natural Water Content Wn % : 52.28

Ignition Loss Li % : 2.39

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.024

Notes

From In-situ Observation

Soil Name : Fine Sand

Soil Color : Brown

Others :

Form Soil Test : Fine SAND

Table 2. 3-1 (36) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey.

Testing Date : July 6-13, 1989

8th Stage (Sampled on 25th May.1989)

Sample No. : F-1
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	-
Sand (74 - 2000 um)	%	:	0.31
Silt (5 - 74 um)	%	:	35.69
Clay (less than 5 um)	%	:	64.00
Diameter of Maximum Grain	mm	:	2.00
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.0025
Diameter of 25 %	D25	mm	: -
Diameter of 75 %	D75	mm	: 0.0084
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.58

Natural Water Content Wn % : 156.23

Ignition Loss Li % : 8.12

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.012

Notes

From In-situ Observation

Soil Name : Silt
Soil Color : Greyesh Brown
Others :

Form Soil Test : SILT and CLAY trace sand

Table 2. 3-1 (37) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey.

Testing Date : July 6-13, 1989

8th Stage (Sampled on 25th May.1989)

Sample No. : F-2
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	0.37
Silt (5 - 74 um) %	:	41.63
Clay (less than 5 um) %	:	58.00
Diameter of Maximum Grain mm	:	2.00
Coefficient of Uniformity U _c	:	-
Coefficient of Curving Rate U _{c'}	:	-
Diameter of 50 % D ₅₀ mm	:	0.0036
Diameter of 25 % D ₂₅ mm	:	-
Diameter of 75 % D ₇₅ mm	:	0.0105
Sorting S _o	:	-
Skewness S _k	:	-

Specific Gravity G_s : 2.58

Natural Water Content W_n % : 157.63

Ignition Loss L_i % : 8.05

Shear Strength (In-situ Vane Test) kgf/cm² : 0.019

Notes

From In-situ Observation

Soil Name : Alternation of Silt and Fine Sand
Soil Color : - Grey (Fine Sand)
- Brownish Grey (Silt)
Others : Mineral Organic

Form Soil Test : SILT and CLAY trace sand

Table 2. 3-1 (38) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey.

Testing Date : July 6-13, 1989

8th Stage (Sampled on 25th May.1989)

Sample No. : F-3
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	0.18
Sand (74 - 2000 um) %	:	23.21
Silt (5 - 74 um) %	:	35.61
Clay (less than 5 um) %	:	41.00
Diameter of Maximum Grain mm	:	4.76
Coefficient of Uniformity Uc	:	-
Coefficient of Curving Rate Uc'	:	-
Diameter of 50 % D50 mm	:	0.0118
Diameter of 25 % D25 mm	:	-
Diameter of 75 % D75 mm	:	0.091
Sorting So	:	-
Skewness Sk	:	-

Specific Gravity Gs : 2.64

Natural Water Content Wn % : 81.63

Ignition Loss Li % : 5.58

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.307

Notes

From In-situ Observation

Soil Name : Clay (massive)
Soil Color : Grey
Others :

Form Soil Test : SILT and CLAY trace sand

Table 2.3-1 (39) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey.

Testing Date : July 6-13, 1989

8th Stage (Sampled on 25th May.1989)

Sample No. : F-4
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	95.59
Silt (5 - 74 um) %	:	4.41
Clay (less than 5 um) %	:	-
Diameter of Maximum Grain mm	:	2.0
Coefficient of Uniformity Uc	:	1.75
Coefficient of Curving Rate Uc'	:	1.75
Diameter of 50 % D50 mm	:	0.194
Diameter of 25 % D25 mm	:	0.184
Diameter of 75 % D75 mm	:	0.1942
Sorting So	:	0.97
Skewness Sk	:	0.95

Specific Gravity Gs : 2.73

Natural Water Content Wn % : 30.71

Ignition Loss Li % : 0.81

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.043

Notes

From In-situ Observation
Soil Name : Medium Sand (Very light)
Soil Color : Brown
Others :
Form Soil Test : Fine SAND trace silt

Table 2. 3-1 (40) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey.

Testing Date : July 6-13, 1989.

8th Stage (Sampled on 25th May.1989)

Sample No. : F-5
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	6.67
Silt (5 - 74 um) %	:	39.33
Clay (less than 5 um) %	:	54.00
Diameter of Maximum Grain mm	:	2.00
Coefficient of Uniformity U _c	:	-
Coefficient of Curving Rate U _{c'}	:	-
Diameter of 50 % D ₅₀ mm	:	0.0032
Diameter of 25 % D ₂₅ mm	:	-
Diameter of 75 % D ₇₅ mm	:	0.024
Sorting S _o	:	-
Skewness S _k	:	-

Specific Gravity G_s : 2.59

Natural Water Content W_n % : 123.96

Ignition Loss L_i % : 9.36

Shear Strength (In-situ Vane Test) kgf/cm² : 0.009

Notes

From In-situ Observation

Soil Name : Silt is Very Thin (Surface)
Silt (Inside)
Soil Color : Brown (Surface)
Grey (Inside)
Others :

Form Soil Test : SILT and CLAY trace sand

Table 2.3-1 (41) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey

Testing Date : August 7-12, 1989

9th Stage (Sampled on 20th June 1989)

Sample No. : F-1
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	0.21
Sand (74 - 2000 um) %	:	0.55
Silt (5 - 74 um) %	:	35.24
Clay (less than 5 um) %	:	64.00
Diameter of Maximum Grain mm	:	9.52
Coefficient of Uniformity U _c	:	-
Coefficient of Curving Rate U _{c'}	:	-
Diameter of 50 % D ₅₀ mm	:	0.0025
Diameter of 25 % D ₂₅ mm	:	-
Diameter of 75 % D ₇₅ mm	:	0.0084
Sorting S _o	:	-
Skewness S _k	:	-

Specific Gravity G_s : 2.61

Natural Water Content W_n % : 155.74

Ignition Loss L_i % : 13.78

Shear Strength (In-situ Vane Test) kgf/cm² : 0.022

Notes

From In-situ Observation

Soil Name : Course Silt
Soil Color : Brownish Grey
Others :

Form Soil Test : SILT and CLAY trace sand

Table 2.3-1 (42) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey

Testing Date : August 7-12, 1989

9th Stage (Sampled on 20th June 1989)

Sample No. : F-2
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	-
Sand (74 - 2000 μ m)	%	:	12.44
Silt (5 - 74 μ m)	%	:	41.56
Clay (less than 5 μ m)	%	:	46.00
Diameter of Maximum Grain	mm	:	2.00
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50 mm	:	0.007
Diameter of 25 %	D25 mm	:	-
Diameter of 75 %	D75 mm	:	0.033
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.66

Natural Water Content Wn % : 112.06

Ignition Loss Li % : 8.25

Shear Strength (In-situ Vane Test) kgf/cm² : 0.022

Notes

From In-situ Observation

Soil Name : Course Silt, with Fine Sand Grain
Soil Color : Brownish Grey
Others :

Form Soil Test : SILT and CLAY some sand

Table 2. 3-1 (43) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey

Testing Date : August 7-12, 1989

9th Stage (Sampled on 20th June 1989)

Sample No. : F-3

Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	0.01
Sand (74 - 2000 um) %	:	13.58
Silt (5 - 74 um) %	:	39.41
Clay (less than 5 um) %	:	47.00

Diameter of Maximum Grain mm	:	4.76
------------------------------	---	------

Coefficient of Uniformity U _c	:	-
--	---	---

Coefficient of Curving Rate U _{c'}	:	-
---	---	---

Diameter of 50 % D ₅₀ mm	:	0.0062
-------------------------------------	---	--------

Diameter of 25 % D ₂₅ mm	:	-
-------------------------------------	---	---

Diameter of 75 % D ₇₅ mm	:	0.031
-------------------------------------	---	-------

Sorting So	:	-
------------	---	---

Skewness Sk	:	-
-------------	---	---

Specific Gravity G_s : 2.62

Natural Water Content W_n % : 154.06

Ignition Loss Li % : 13.77

Shear Strength (In-situ Vane Test) kgf/cm² : 0.022

Notes

From In-situ Observation

Soil Name : Sand (Surface)
Silty Clay (Inside)

Soil Color : Brown (Surface)
Grey (Inside)

Others : With mineral organic (Inside)

Form Soil Test : SILT and CLAY some sand

Table 2. 3-1 (M) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey

Testing Date : August 7-12, 1989

9th Stage (Sampled on 20th June 1989)

Sample No. : F-4
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	0.35
Sand (74 - 2000 um) %	:	86.71
Silt (5 - 74 um) %	:	12.94
Clay (less than 5 um) %	:	-
Diameter of Maximum Grain mm	:	4.76
Coefficient of Uniformity Uc	:	-
Coefficient of Curving Rate Uc'	:	-
Diameter of 50 % D50 mm	:	0.139
Diameter of 25 % D25 mm	:	0.106
Diameter of 75 % D75 mm	:	0.140
Sorting So	:	0.87
Skewness Sk	:	0.77

Specific Gravity Gs : 2.71

Natural Water Content Wn % : 68.53

Ignition Loss Li % : 4.88

Shear Strength (In-situ Vane Test) kgf/cm² : 0.020

Notes

From In-situ Observation

Soil Name : Sand, very light
Soil Color : Brown
Others : With Little Mineral Organic

Form Soil Test : Fine SAND, some silt

Table 2. 3-1 (45) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey

Testing Date : August 7-12, 1989

9th Stage (Sampled on 20th June 1989)

Sample No. : F-5
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	0.10
Sand (74 - 2000 um) %	:	14.36
Silt (5 - 74 um) %	:	39.54
Clay (less than 5 um) %	:	46.00
Diameter of Maximum Grain mm	:	4.76
Coefficient of Uniformity Uc	:	-
Coefficient of Curving Rate Uc'	:	-
Diameter of 50 % D50 mm	:	0.007
Diameter of 25 % D25 mm	:	-
Diameter of 75 % D75 mm	:	0.044
Sorting So	:	-
Skewness Sk	:	-

Specific Gravity Gs : 2.69

Natural Water Content Wn % : 103.51

Ignition Loss Li % : 7.37

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.022

Notes

From In-situ Observation

Soil Name : Silt with Fine Sand Grain
Soil Color : Brownish Grey (Surface)
Grey (Inside)

Others :

Form Soil Test : SILT and CLAY some sand

Table 2. 3-1 (46) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey

Testing Date : August 11-15, 1989

10th Stage (Sampled on 14th July 1989)

Sample No. : F-1
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m) %	:	-
Sand (74 - 2000 μ m) %	:	8.28
Silt (5 - 74 μ m) %	:	31.72
Clay (less than 5 μ m) %	:	60.00
Diameter of Maximum Grain mm	:	2.00
Coefficient of Uniformity U_c	:	-
Coefficient of Curving Rate U_c'	:	-
Diameter of 50 % D_{50} mm	:	0.002
Diameter of 25 % D_{25} mm	:	-
Diameter of 75 % D_{75} mm	:	0.015
Sorting S_o	:	-
Skewness S_k	:	-

Specific Gravity G_s : 2.64

Natural Water Content W_n % : 108.99

Ignition Loss L_i % : 8.51

Shear Strength (In-situ Vane Test) kgf/cm² : 0.027

Notes

From In-situ Observation

Soil Name : Mud (Surface)
Silt with Fine Sand (Inside)
Soil Color : Brown (Surface)
Brownish Grey (Inside)
Others :

Form Soil Test : Silty CLAY trace sand

Table 2. 3-1 (47) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey

Testing Date : August 11-15, 1989

10th Stage (Sampled on 14th JULY 1989)

Sample No. : F-2
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	0.08
Sand (74 - 2000 um) %	:	94.35
Silt (5 - 74 um) %	:	5.57
Clay (less than 5 um) %	:	-
Diameter of Maximum Grain mm	:	4.76
Coefficient of Uniformity Uc	:	1.60
Coefficient of Curving Rate Uc'	:	1.22
Diameter of 50 % D50 mm	:	0.141
Diameter of 25 % D25 mm	:	0.134
Diameter of 75 % D75 mm	:	0.2102
Sorting So	:	0.80
Skewness Sk	:	1.42

Specific Gravity Gs : 2.70

Natural Water Content Wn % : 52.70

Ignition Loss Li % : 3.05

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.010

Notes

From In-situ Observation

Soil Name : Silt
Soil Color : Brownish Grey
Others :

Form Soil Test : Fine SAND trace silt

Table 2. 3-1 (48) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey

Testing Date : August 11-15, 1989

10th Stage (Sampled on 14th JULY 1989)

Sample No. : F-3
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	11.54
Silt (5 - 74 um) %	:	28.46
Clay (less than 5 um) %	:	60.00
Diameter of Maximum Grain mm	:	2.00
Coefficient of Uniformity Uc	:	-
Coefficient of Curving Rate Uc'	:	-
Diameter of 50 % D50 mm	:	0.0028
Diameter of 25 % D25 mm	:	-
Diameter of 75 % D75 mm	:	0.0210
Sorting So	:	-
Skewness Sk	:	-

Specific Gravity Gs : 2.66

Natural Water Content Wn % : 103.35

Ignition Loss Li % : 10.77

Shear Strength (In-situ Vane Test) kgf/cm2 :

Notes

From In-situ Observation

Soil Name : Clay with little sand
Soil Color : Brownish Grey
Others : Soil sample is not enough
to be measured by Vane Test.
Form Soil Test : Silty CLAY trace sand

Table 2. 3-1 (49) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey

Testing Date : August 11-15, 1989

10th Stage (Sampled on 14th July 1989)

Sample No. : F-4
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m) %	:	0.04
Sand (74 - 2000 μ m) %	:	18.01
Silt (5 - 74 μ m) %	:	37.95
Clay (less than 5 μ m) %	:	44.00
Diameter of Maximum Grain mm	:	4.76
Coefficient of Uniformity U_c	:	-
Coefficient of Curving Rate U_c'	:	-
Diameter of 50 % D_{50} mm	:	0.0099
Diameter of 25 % D_{25} mm	:	-
Diameter of 75 % D_{75} mm	:	0.043
Sorting S_o	:	-
Skewness S_k	:	-

Specific Gravity G_s : 2.61

Natural Water Content W_n % : 127.29

Ignition Loss L_i % : 7.81

Shear Strength (In-situ Vane Test) kgf/cm^2 : 0.017

Notes

From In-situ Observation

Soil Name : Medium Sand
Soil Color : Brownish Grey
Others :

Form Soil Test : SILT and CLAY

Table 2.3-1 (50) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey

Testing Date : August 11-15, 1989

10th Stage (Sampled on 14th July 1989)

Sample No. : F-5
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	-	
Sand (74 - 2000 um)	%	:	0.39	
Silt (5 - 74 um)	%	:	29.61	
Clay (less than 5 um)	%	:	70.00	
Diameter of Maximum Grain	mm	:	2.00	
Coefficient of Uniformity	Uc	:	-	
Coefficient of Curving Rate	Uc'	:	-	
Diameter of 50 %	D50	mm	:	-
Diameter of 25 %	D25	mm	:	-
Diameter of 75 %	D75	mm	:	0.0066
Sorting	So	:	-	
Skewness	Sk	:	-	

Specific Gravity Gs : 2.60

Natural Water Content Wn % : 123.94

Ignition Loss Li % : 12.63

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.017

Notes

From In-situ Observation

Soil Name : Silty clay with Fine Sand
Soil Color : Brownish Grey
Others :

Form Soil Test : Silty CLAY trace sand

Table 2. 3-1 (5) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey

Testing Date : August 24-30, 1989

11th Stage (Sampled on 30th July 1989)

Sample No. : F-1
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	0.56
Silt (5 - 74 um) %	:	33.44
Clay (less than 5 um) %	:	66.00
Diameter of Maximum Grain mm	:	0.42
Coefficient of Uniformity Uc	:	-
Coefficient of Curving Rate Uc'	:	-
Diameter of 50 % D50 mm	:	0.0017
Diameter of 25 % D25 mm	:	-
Diameter of 75 % D75 mm	:	0.0091
Sorting So	:	-
Skewness Sk	:	-

Specific Gravity Gs : 2.74

Natural Water Content Wn % : 207.24

Ignition Loss Li % : 14.22

Shear Strength (In-situ Vane Test) kgf/cm² : 0.005

Notes

From In-situ Observation

Soil Name : Mud
Soil Color : Brown & Grey
Others :

Form Soil Test : Silty CLAY trace sand

Table 2.3-1 (52) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey

Testing Date : August 24-30, 1989

11th Stage (Sampled on 30th July 1989)

Sample No. : F-2
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	-
Sand (74 - 2000 um)	%	:	46.16
Silt (5 - 74 um)	%	:	38.84
Clay (less than 5 um)	%	:	15.00
Diameter of Maximum Grain	mm	:	2.00
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50 mm	:	0.071
Diameter of 25 %	D25 mm	:	0.025
Diameter of 75 %	D75 mm	:	0.095
Sorting	So	:	0.51
Skewness	Sk	:	0.47

Specific Gravity Gs : 2.55

Natural Water Content Wn % : 62.62

Ignition Loss Li % : 6.70

Shear Strength (In-situ Vane Test) kgf/cm² : 0.007

Notes

From In-situ Observation

Soil Name : Fine Sand with little Mud
Soil Color : Brownish Grey
Others :

Form Soil Test : SILT and Fine SAND, some clay

Table 2.3-1 (3) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey

Testing Date : August 24-30, 1989

11th Stage (Sampled on 30th July 1989)

Sample No. : F-3
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	-
Sand (74 - 2000 μ m)	%	:	22.90
Silt (5 - 74 μ m)	%	:	45.10
Clay (less than 5 μ m)	%	:	32.00
Diameter of Maximum Grain	mm	:	2.00
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50 mm	:	0.02
Diameter of 25 %	D25 mm	:	0.003
Diameter of 75 %	D75 mm	:	0.071
Sorting	So	:	0.21
Skewness	Sk	:	0.53

Specific Gravity Gs : 2.59

Natural Water Content Wn % : 143.27

Ignition Loss Li % : 11.32

Shear Strength (In-situ Vane Test) kgf/cm² : 0.020

Notes

From In-situ Observation

Soil Name : Silty Clay
Soil Color : Dark Grey
Others :

Form Soil Test : Clayey SILT, some Sand

Table 2. 3-1 (M) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey

Testing Date : August 24-30, 1989

11th Stage (Sampled on 30th July 1989)

Sample No. : F-4
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	-
Sand (74 - 2000 μ m)	%	:	90.50
Silt (5 - 74 μ m)	%	:	9.50
Clay (less than 5 μ m)	%	:	-
Diameter of Maximum Grain	mm	:	2.00
Coefficient of Uniformity	Uc	:	2.74
Coefficient of Curving Rate	Uc'	:	1.14
Diameter of 50 %	D50	mm	: 0.189
Diameter of 25 %	D25	mm	: 0.128
Diameter of 75 %	D75	mm	: 0.257
Sorting	So	:	0.71
Skewness	Sk	:	0.92

Specific Gravity Gs : 2.69

Natural Water Content Wn % : 45.92

Ignition Loss Li % : 2.18

Shear Strength (In-situ Vane Test) kgf/cm² : 0.014

Notes

From In-situ Observation

Soil Name : Fine Sand with little Mud
Soil Color : Brown
Others :

Form Soil Test : Fine SAND trace silt

Table 2. 3-1 (55) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey

Testing Date : August 24-30, 1989

11th Stage (Sampled on 30th July 1989)

Sample No. : F-5
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	16.11
Silt (5 - 74 um) %	:	38.89
Clay (less than 5 um) %	:	45.00
Diameter of Maximum Grain mm	:	2.00
Coefficient of Uniformity U _c	:	-
Coefficient of Curving Rate U _c	:	-
Diameter of 50 % D ₅₀ mm	:	0.0084
Diameter of 25 % D ₂₅ mm	:	-
Diameter of 75 % D ₇₅ mm	:	0.054
Sorting S _o	:	-
Skewness S _k	:	-

Specific Gravity G_s : 2.65

Natural Water Content W_n % : 91.37

Ignition Loss L_i % : 8.67

Shear Strength (In-situ Vane Test) kgf/cm² : 0.015

Notes

From In-situ Observation

Soil Name : Mud
Soil Color : Brown
Others :

Form Soil Test : SILT and CLAY, some sand

Table 2. 3-1 (56) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey

Testing Date : September 4-9, 1989

12th Stage (Sampled on 13th Aug.1989)

Sample No. : F-1
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	-
Sand (74 - 2000 um)	%	:	0.78
Silt (5 - 74 um)	%	:	41.22
Clay (less than 5 um)	%	:	58.00
Diameter of Maximum Grain	mm	:	2.00
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.0036
Diameter of 25 %	D25	mm	: -
Diameter of 75 %	D75	mm	: 0.011
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.60

Natural Water Content Wn % : 151.58

Ignition Loss Li % : 12.18

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.013

Notes

From In-situ Observation

Soil Name : Fine Sand (Surface)
Clay with Fine Sand (Inside)
Soil Color : Brown (Surface)
Brownish Grey (Inside)
Others :

Form Soil Test : CLAY and SILT trace sand

Table 2. 3-1 (57) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey

Testing Date : September 4-9, 1989

12th Stage (Sampled on 13th Aug.1989)

Sample No. : F-2
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	19.23
Silt (5 - 74 um) %	:	45.77
Clay (less than 5 um) %	:	35.00
Diameter of Maximum Grain mm	:	2.00
Coefficient of Uniformity Uc	:	-
Coefficient of Curving Rate Uc'	:	-
Diameter of 50 % D50 mm	:	0.017
Diameter of 25 % D25 mm	:	0.0029
Diameter of 75 % D75 mm	:	0.063
Sorting So	:	0.21
Skewness Sk	:	0.63

Specific Gravity Gs : 2.63

Natural Water Content Wn % : 114.41

Ignition Loss Li % : 8.57

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.010

Notes

From In-situ Observation

Soil Name : Fine Sand (Surface)
Clay, with Fine Sand (Inside)
Soil Color : Brown (Surface)
Brownish Grey (Inside)
Others :

Form Soil Test : Clayey SILT, some sand

Table 2. 3-1 (58) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey

Testing Date : September 4-9, 1989

12th Stage (Sampled on 13th Aug.1989)

Sample No. : F-3
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	--
Sand (74 - 2000 um)	%	:	83.18
Silt (5 - 74 um)	%	:	16.82
Clay (less than 5 um)	%	:	--
Diameter of Maximum Grain	mm	:	2.00
Coefficient of Uniformity	Uc	:	--
Coefficient of Curving Rate	Uc'	:	--
Diameter of 50 %	D50	mm	: 0.235
Diameter of 25 %	D25	mm	: 0.096
Diameter of 75 %	D75	mm	: 0.341
Sorting	So	:	0.53
Skewness	Sk	:	0.59

Specific Gravity Gs : 2.67

Natural Water Content Wn % : 71.82

Ignition Loss Li % : 7.65

Shear Strength (In-situ Vane Test) kgf/cm² : 0.020

Notes

From In-situ Observation

Soil Name : Fine Sand (Surface)
Silt (Inside)
Soil Color : Brown (Surface)
Dark Grey (Inside)
Others :

Form Soil Test : Fine SAND, some Silt

Table 2.3-1.(59) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey

Testing Date : September 4-9, 1989

12th Stage (Sampled on 13th Aug. 1989)

Sample No. : F-4
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	0.06
Sand (74 - 2000 um)	%	:	87.58
Silt (5 - 74 um)	%	:	12.36
Clay (less than 5 um)	%	:	-
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50 mm	:	0.151
Diameter of 25 %	D25 mm	:	0.097
Diameter of 75 %	D75 mm	:	0.199
Sorting	Sp	:	0.70
Skewness	Sk	:	0.85

Specific Gravity Gs : 2.65

Natural Water Content Wn % : 93.19

Ignition Loss Li % : 7.59

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.012

Notes

From In-situ Observation

Soil Name	:	Fine Sand (Surface) Medium Sand (Inside)
Soil Color	:	Brown (Surface) Brownish Grey (Inside)
Others	:	with little organic fragment
Form Soil Test	:	Fine SAND, some silt

Table 2. 3-1 (a) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Discharge Station)
of Monthly Survey

Testing Date : September 4-9, 1989

12th Stage (Sampled on 13th Aug.1989).

Sample No. : F-5
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	-
Sand (74 - 2000 um)	%	:	11.20
Silt (5 - 74 um)	%	:	49.80
Clay (less than 5 um)	%	:	39.00
Diameter of Maximum Grain	mm	:	2.00
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.0104
Diameter of 25 %	D25	mm	: 0.0017
Diameter of 75 %	D75	mm	: 0.0384
Sorting	So	:	0.21
Skewness	Sk	:	0.60

Specific Gravity Gs : 2.62

Natural Water Content Wn % : 116.12

Ignition Loss Li % : 9.27

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.015

Notes

From In-situ Observation

Soil Name : Fine Sand (Surface)
Silt with Fine Sand Grain (Inside)
Soil Color : Brown (Surface)
Brownish Grey (Inside)
Others :
Form Soil Test : SILT and CLAY, some sand

Table 2.3-2 (1)-(96) Soil Test (Sampled During Saline Wedge Survey)

Table 2. 3-2 (1) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in -
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Salina Wedge) of Monthly Survey

Testing Date : November 21 - 24, 1988

1st Stage (Sampled on 12th Oct. at St. B, D, F, H and
Sampled on 15th Oct. 1988 at St. A, C, E, G.)

Sample No. : A
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	0.8
Sand (74 - 2000 μ m)	%	:	16.6
Silt (5 - 74 μ m)	%	:	41.6
Clay (less than 5 μ m)	%	:	41.0
Diameter of Maximum Grain	mm	:	9.52
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.0076
Diameter of 25 %	D25	mm	: 0.0024
Diameter of 75 %	D75	mm	: 0.034
Sorting	So	:	0.27
Skewness	Sk	:	1.41

Specific Gravity Gs : 2.62

Natural Water Content Wn % : 107.1

Ignition Loss Li % : 12.28

Shear Strength (In-situ Vane Test) kgf/cm² : 0.005

Notes

From In-situ Observation

Soil Name : FINE SAND
Soil Color : Black grey
Others : Soft

From Soil Test : SILT and CLAY with some sand
trace gravel

Table 2. 3-2 (3) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in -
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge) of Monthly Survey

Testing Date : November 21 - 24, 1988

1st Stage (Sampled on 12th Oct. at St. B, D, F, H and
Sampled on 15th Oct. 1988 at St. A, C, E, G.)

Sample No. : C
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	0.8
Sand (74 - 2000 μ m)	%	:	2.2
Silt (5 - 74 μ m)	%	:	49.6
Clay (less than 5 μ m)	%	:	47.4
Diameter of Maximum Grain	mm	:	9.52
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.0055
Diameter of 25 %	D25	mm	: 0.0028
Diameter of 75 %	D75	mm	: 0.014
Sorting	So	:	0.45
Skewness	Sk	:	1.30

Specific Gravity Gs : 2.55

Natural Water Content Wn % : 232.3

Ignition Loss Li % : 15.56

Shear Strength (In-situ Vane Test) kgf/cm² : 0.008

Notes

From In-situ Observation

Soil Name : M U D
Soil Color : Brownish grey
Others : Soft

From Soil Test : CLAY and SILT trace sand
and gravel

Table 2. 3-2 (4) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in -
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge) of Monthly Survey

Testing Date : November 21 - 24, 1988

1st Stage (Sampled on 12th Oct. at St. B, D, F, H and
Sampled on 15th Oct. 1988 at St. A, C, E, G.)

Sample No. : D
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	0.4
Sand (74 - 2000 μ m)	%	:	12.6
Silt (5 - 74 μ m)	%	:	53.0
Clay (less than 5 μ m)	%	:	34.0
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.012
Diameter of 25 %	D25	mm	: 0.0035
Diameter of 75 %	D75	mm	: 0.036
Sorting	So	:	0.31
Skewness	Sk	:	0.88

Specific Gravity Gs : 2.61

Natural Water Content Wn % : 122.2

Ignition Loss Li % : 10.87

Shear Strength (In-situ Vane Test) kgf/cm² : 0.017

Notes

From In-situ Observation

Soil Name : M U D
Soil Color : Greenish grey
Others :

From Soil Test : Clayey SILT with some sand.

Table 2. 3-2 (5) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in -
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge) of Monthly Survey

Testing Date : November 21 - 24, 1988

1st Stage (Sampled on 12th Oct. at St. B, D, F, H and
Sampled on 15th Oct. 1988 at St. A, C, E, G.)

Sample No. : E
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	1.6
Sand (74 - 2000 μ m)	%	:	12.6
Silt (5 - 74 μ m)	%	:	49.8
Clay (less than 5 μ m)	%	:	36.0
Diameter of Maximum Grain	mm	:	9.52
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.010
Diameter of 25 %	D25	mm	: 0.0028
Diameter of 75 %	D75	mm	: 0.022
Sorting	So	:	0.36
Skewness	Sk	:	0.62

Specific Gravity Gs : 2.57

Natural Water Content Wn % : 180.3

Ignition Loss Li % : 13.57

Shear Strength (In-situ Vane Test) kgf/cm² : 0.011

Notes

From In-situ Observation

Soil Name : SILT
Soil Color : Brownish grey
Others :

From Soil Test : SILT and CLAY with some sand

Table 2.3-2 (6) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in -
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge) of Monthly Survey

Testing Date : November 21 - 24, 1988

1st Stage (Sampled on 12th Oct. at St. B, D, F, H and
Sampled on 15th Oct. 1988 at St. A, C, E, G.)

Sample No. : F
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	0.2
Sand (74 - 2000 μ m)	%	:	57.8
Silt (5 - 74 μ m)	%	:	42.0
Clay (less than 5 μ m)	%	:	-
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	29.85
Coefficient of Curving Rate	Uc'	:	1.44
Diameter of 50 %	D50	mm	: 0.11
Diameter of 25 %	D25	mm	: 0.032
Diameter of 75 %	D75	mm	: 0.30
Sorting	So	:	0.33
Skewness	Sk	:	0.79

Specific Gravity G_s : 2.67

Natural Water Content Wn % : 88.9

Ignition Loss Li % : 8.36

Shear Strength (In-situ Vane Test) kgf/cm² : 0.017

Notes

From In-situ Observation

Soil Name : SAND MUDDY SAND
Soil Color : Yellowish brown grey black
Others :

From Soil Test : SILT and CLAY trace sand,
gravel

Table 2. 3-2 (7) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in -
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge) of Monthly Survey

Testing Date : November 21 - 24, 1988

1st Stage (Sampled on 12th Oct. at St. B, D, F, H and
Sampled on 15th Oct. 1988 at St. A, C, E, G.)

Sample No. : G
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	0.2
Sand (74 - 2000 μ m)	%	:	96.8
Silt (5 - 74 μ m)	%	:	3.0
Clay (less than 5 μ m)	%	:	-
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50 mm	:	0.36
Diameter of 25 %	D25 mm	:	0.25
Diameter of 75 %	D75 mm	:	0.50
Sorting	So	:	0.71
Skewness	Sk	:	0.96

Specific Gravity Gs : 2.72

Natural Water Content Wn % : 29.1

Ignition Loss Li % : 1.10

Shear Strength (In-situ Vane Test) kgf/cm² : 0.008

Notes

From In-situ Observation

Soil Name : MEDIUM SAND
Soil Color : Yellowish brown
Others :

From Soil Test : Sandy SILT trace clay

Table 2. 3-2 (8) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in -
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge) of Monthly Survey

Testing Date : November 21 - 24, 1988

1st Stage (Sampled on 12th Oct. at St. B, D, F, H and
Sampled on 15th Oct. 1988 at St. A, C, E, G.)

Sample No. : H
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	0.4
Sand (74 - 2000 μ m)	%	:	24.6
Silt (5 - 74 μ m)	%	:	38.4
Clay (less than 5 μ m)	%	:	36.6
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50 mm	:	0.018
Diameter of 25 %	D25 mm	:	0.003
Diameter of 75 %	D75 mm	:	0.075
Sorting	So	:	0.20
Skewness	Sk	:	0.69

Specific Gravity	Gs	:	2.66
Natural Water Content	Wn %	:	92.9
Ignition Loss	Li %	:	8.96
Shear Strength (In-situ Vane Test)	kgf/cm ²	:	0.017

Notes

From In-situ Observation

Soil Name : CLAY SAND

Soil Color : Greenish gray

Others :

From Soil Test : Sandy CLAY and SILT

Table 2. 3-2 (9) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in -
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge stat.) of
Monthly Survey

Testing Date : December 7 - 10, 1988

2nd Stage (Sampled on 11th Nov. at St. D, F, I, J and
Sampled on 16th Nov. 1988 at St. A, B, C, E.)

Sample No. : A
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	0.06
Sand (74 - 2000 μ m)	%	:	16.94
Silt (5 - 74 μ m)	%	:	48.20
Clay (less than 5 μ m)	%	:	34.80
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	0.019
Diameter of 25 %	D25	mm	-
Diameter of 75 %	D75	mm	0.055
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.57

Natural Water Content Wn % : 156.61

Ignition Loss Li % : 12.30

Shear Strength (In-situ Vane Test) kgf/cm² : 0.005

Notes

From In-situ Observation

Soil Name : M U D

Soil Color : Brown

Others : Very soft, black wooden
fragment is very rich

From Soil Test : Sandy SILT and clay

Table 2. 3-2 (10) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in -
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge stat.) of
Monthly Survey

Testing Date : December 7 - 10, 1988

2nd Stage (Sampled on 11th Nov. at St. D, F, I, J and
Sampled on 16th Nov. 1988 at St. A, B, C, E.)

Sample No. : B
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	0.20
Sand (74 - 2000 μ m)	%	:	27.97
Silt (5 - 74 μ m)	%	:	48.83
Clay (less than 5 μ m)	%	:	23.00
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.042
Diameter of 25 %	D25	mm	: 0.0065
Diameter of 75 %	D75	mm	: 0.08
Sorting	So	:	0.29
Skewness	Sk	:	0.29

Specific Gravity Gs : 2.56

Natural Water Content Wn % : 119.12

Ignition Loss Li % : 10.18

Shear Strength (In-situ Vane Test) kgf/cm² : 0.024

Notes

From In-situ Observation

Soil Name : M U D

Soil Color : Brown (surface)

Brown to grey (layer)

Others : Wood fragment

From Soil Test : Sandy clayey SILT trace gravel

Table 2. 3-2 (II) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in -
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge stat.) of
Monthly Survey

Testing Date : December 7 - 10, 1988

2nd Stage (Sampled on 11th Nov. at St. D, F, I, J and
Sampled on 16th Nov. 1988 at St. A, B, C, E.)

Sample No. : C
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	0.40
Sand (74 - 2000 μ m)	%	:	16.60
Silt (5 - 74 μ m)	%	:	39.50
Clay (less than 5 μ m)	%	:	43.50
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.009
Diameter of 25 %	D25	mm	: -
Diameter of 75 %	D75	mm	: 0.053
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.56

Natural Water Content Wn % : 158.20

Ignition Loss Li % : 14.43

Shear Strength (In-situ Vane Test) kgf/cm² : 0.007

Notes

From In-situ Observation

Soil Name : N U D
Soil Color : Brownish grey
Others :

From Soil Test : SILT and CLAY with some sand

Table 2.3-2 (12) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in -
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge stat.) of
Monthly Survey

Testing Date : December 7 - 10, 1988.

2nd Stage (Sampled on 11th Nov. at St. D, F, I, J and
Sampled on 16th Nov. 1988 at St. A, B, C, E.)

Sample No. : D
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	0.30
Sand (74 - 2000 μ m)	%	:	71.70
Silt (5 - 74 μ m)	%	:	20.00
Clay (less than 5 μ m)	%	:	8.00
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	8.75
Coefficient of Curving Rate	Uc'	:	4.46
Diameter of 50 %	D50	mm	: 0.095
Diameter of 25 %	D25	mm	: 0.070
Diameter of 75 %	D75	mm	: 0.130
Sorting	So	:	0.73
Skewness	Sk	:	1.01

Specific Gravity Gs : 2.57

Natural Water Content Wn % : 103.96

Ignition Loss Li % : 14.55

Shear Strength (In-situ Vane Test) kgf/cm² : 0.015

Notes

From In-situ Observation

Soil Name : M U D
Soil Color : Brown (surface)
Black (inside)
Others :

From Soil Test : Silty fine SAND trace clay

Table 2. 3-2 (13) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in -
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge stat.) of
Monthly Survey

Testing Date : December 7 - 10, 1988

2nd Stage (Sampled on 11th Nov. at St. D, F, I, J and
Sampled on 16th Nov. 1988 at St. A, B, C, E.)

Sample No. : E
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μm)	%	:	-
Sand (74 - 2000 μm)	%	:	7.80
Silt (5 - 74 μm)	%	:	33.70
Clay (less than 5 μm)	%	:	58.50
Diameter of Maximum Grain	mm	:	2.00
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	0.0026
Diameter of 25 %	D25	mm	-
Diameter of 75 %	D75	mm	0.015
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.52

Natural Water Content Wn % : 205.45

Ignition Loss Li % : 7.10

Shear Strength (In-situ Vane Test) kgf/cm² : 0.016

Notes

From In-situ Observation

Soil Name : M U D
Soil Color : Brown (surface)
Black (inside)
Others :

From Soil Test : Silty CLAY with some sand

Table 2. 3-2 (M) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in -
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge stat.) of
Monthly Survey

Testing Date : December 7 - 10, 1988

2nd Stage (Sampled on 11th Nov. at St. D, F, I, J and
Sampled on 16th Nov. 1988 at St. A, B, C, E.)

Sample No. : F
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	-
Sand (74 - 2000 μ m)	%	:	60.00
Silt (5 - 74 μ m)	%	:	27.50
Clay (less than 5 μ m)	%	:	12.50
Diameter of Maximum Grain	mm	:	2.00
Coefficient of Uniformity	Uc	:	41.8
Coefficient of Curving Rate	Uc'	:	16.6
Diameter of 50 %	D50	mm	: 0.082
Diameter of 25 %	D25	mm	: 0.047
Diameter of 75 %	D75	mm	: 0.125
Sorting	So	:	0.61
Skewness	Sk	:	0.87

Specific Gravity G_s : 2.56

Natural Water Content W_n % : 98.32

Ignition Loss Li % : 9.45

Shear Strength (In-situ Vane Test) kgf/cm² : 0.013

Notes

From In-situ Observation

Soil Name : M U D
Soil Color : Brown (surface)
Black (inside)
Others : Brown mud very thin (surface)

From Soil Test : Silty fine SAND with some clay

Table 2. 3-2 (15) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in -
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge stat.) of
Monthly Survey

Testing Date : December 7 - 10, 1988

2nd Stage (Sampled on 11th Nov. at St. D, F, I, J and
Sampled on 16th Nov. 1988 at St. A, B, C, E.)

Sample No. : I
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	0.15
Sand (74 - 2000 μ m)	%	:	29.30
Silt (5 - 74 μ m)	%	:	44.15
Clay (less than 5 μ m)	%	:	26.40
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.040
Diameter of 25 %	D25	mm	: 0.004
Diameter of 75 %	D75	mm	: 0.078
Sorting	So	:	0.23
Skewness	Sk	:	0.20

Specific Gravity Gs : 2.54

Natural Water Content Wn % : 119.30

Ignition Loss Li % : 11.69

Shear Strength (In-situ Vane Test) kgf/cm² : 0.026

Notes

From In-situ Observation

Soil Name : M U D
Soil Color : Brown (surface)
Black (inside)
Others : Brown mud very thin (surface)

From Soil Test : Sandy clayey SILT

Table 2. 3-2 (16) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in -
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge stat.) of
Monthly Survey

Testing Date : December 7 - 10, 1988

2nd Stage (Sampled on 11th Nov. at St. D, F, I, J and
Sampled on 16th Nov. 1988 at St. A, B, C, E.)

Sample No. : J
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	-
Sand (74 - 2000 μ m)	%	:	10.85
Silt (5 - 74 μ m)	%	:	43.15
Clay (less than 5 μ m)	%	:	46.00
Diameter of Maximum Grain	mm	:	0.84
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.007
Diameter of 25 %	D25	mm	: -
Diameter of 75 %	D75	mm	: 0.032
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.51

Natural Water Content Wn % : 165.69

Ignition Loss Li % : 16.09

Shear Strength (In-situ Vane Test) kgf/cm² : 0.015

Notes

From In-situ Observation

Soil Name : M U D
Soil Color : Brown (surface)
Black (inside)
Others : Many wood fragment

From Soil Test : SILT and CLAY with some sand

Table 2. 3-2 (17) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Salinity Wedge Station)
of Monthly Survey.

Testing Date : January 10 - 18, 1989.

3rd Stage (Sampled on 11th Dec. at St. D, F, I, J and
Sampled on 14th Dec. 1988 at St. A, B, C, E.)

Sample No. : A
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	-
Sand (74 - 2000 μ m)	%	:	10.00
Silt (5 - 74 μ m)	%	:	40.00
Clay (less than 5 μ m)	%	:	50.00
Diameter of Maximum Grain	mm	:	-
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.0048
Diameter of 25 %	D25	mm	: -
Diameter of 75 %	D75	mm	: 0.34
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.596

Natural Water Content Wn % : 81.38

Ignition Loss Li % : 9.34

Shear Strength (In-situ Vane Test) kgf/cm² : 0.027

Notes

From In-situ Observation

Soil Name : Silt (Surface) CLAY (inside)
Soil Color : Brown (surface)
Grey (inside)

Others :

Form Soil Test : CLAY and SILT trace sand

Table 2. 3-2 (18) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Salinity Wedge Station)
of Monthly Survey.

Testing Date : January 10 - 18, 1989.

3rd Stage (Sampled on 11th Dec. at St. D, F, I, J and
Sampled on 14th Dec. 1988 at St. A, B, C, E.)

Sample No. : B
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	0.02
Sand (74 - 2000 um)	%	:	7.96
Silt (5 - 74 um)	%	:	44
Clay (less than 5 um)	%	:	48.00
Diameter of Maximum Grain	mm	:	-
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.060
Diameter of 25 %	D25	mm	: -
Diameter of 75 %	D75	mm	: 0.025
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity	Gs	:	2.535

Natural Water Content	Wn	%	: 209.48

Ignition Loss	Li	%	: 14.80

Shear Strength (In-situ Vane Test)	kgf/cm ²	:	0.002

Notes

From In-situ Observation

Soil Name : SILT
Soil Color : Brown
Others : Very soft

Form Soil Test : CLAY and SILT trace sand

Table 2. 3-2 (19) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Salinity Wedge Station)
of Monthly Survey.

Testing Date : January 10 - 18, 1989.

3rd Stage (Sampled on 11th Dec. at St. D, F, I, J and
Sampled on 14th Dec. 1988 at St. A, B, C, E.)

Sample No. : C
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	0.48
Sand (74 - 2000 μ m)	%	:	27.02
Silt (5 - 74 μ m)	%	:	38.50
Clay (less than 5 μ m)	%	:	34.00
Diameter of Maximum Grain	mm	:	-
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.0296
Diameter of 25 %	D25	mm	: 0.0023
Diameter of 75 %	D75	mm	: 0.085
Sorting	So	:	0.16
Skewness	Sk	:	0.22

Specific Gravity Gs : 2.547

Natural Water Content Wn % : 189.47

Ignition Loss Li % : 12.05

Shear Strength (In-situ Vane Test) kgf/cm² : 0.012

Notes

From In-situ Observation

Soil Name : SANDY SILT
Soil Color : Brownish Grey
Others :

Form Soil Test : Sandy SILT sand CLAY

Table 2.3-2 (20) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Salinity Wedge Station)
of Monthly Survey.

Testing Date : January 10 - 18, 1989.

3rd Stage (Sampled on 11th Dec. at St. D, F, I, J and
Sampled on 14th Dec. 1988 at St. A, B, C, E.)

Sample No. : D
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	0.08
Sand (74 - 2000 um)	%	:	51.92
Silt (5 - 74 um)	%	:	30.00
Clay (less than 5 um)	%	:	18.00
Diameter of Maximum Grain	mm	:	-
Coefficient of Uniformity	Uc	:	7.5
Coefficient of Curving Rate	Uc'	:	2.31
Diameter of 50 %	D50	mm	: 0.072
Diameter of 25 %	D25	mm	: 0.031
Diameter of 75 %	D75	mm	: 0.12
Sorting	So	:	0.51
Skewness	Sk	:	0.72

Specific Gravity	Gs	:	2.587
Natural Water Content	Wn	%	: 85.95
Ignition Loss	Li	%	: 9.24
Shear Strength (In-situ Vane Test)	kgf/cm ²	:	0.020

Notes

From In-situ Observation

Soil Name : SILT WITH SAND GRAIN

Soil Color : Black (Silt) Yellowish
Brown (sand)

Others :

Form Soil Test : Clayey SILT trace sand

Table 2. 3-2 (2) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Salinity Wedge Station)
of Monthly Survey.

Testing Date : January 10 - 18, 1989.

3rd Stage (Sampled on 11th Dec. at St. D, F, I, J and
Sampled on 14th Dec. 1988 at St. A, B, C, E.)

Sample No. : E
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	0.02
Sand (74 - 2000 um) %	:	14.98
Silt (5 - 74 um) %	:	33.00
Clay (less than 5 um) %	:	52.00
Diameter of Maximum Grain mm	:	-
Coefficient of Uniformity Uc	:	-
Coefficient of Curving Rate Uc'	:	-
Diameter of 50 % D50 mm	:	0.0048
Diameter of 25 % D25 mm	:	-
Diameter of 75 % D75 mm	:	0.51
Sorting So	:	-
Skewness Sk	:	-

Specific Gravity	Gs	:	2.547
------------------	----	---	-------

Natural Water Content	Wn %	:	165.42
-----------------------	------	---	--------

Ignition Loss	Li %	:	12.48
---------------	------	---	-------

Shear Strength (In-situ Vane Test) kgf/cm ²	:	0.010
--	---	-------

Notes

From In-situ Observation

Soil Name : SILT WITH SAND GRAIN
Soil Color : Grey (surface)
Black (inside)

Others :

Form Soil Test : Silty CLAY with some sand

Table 2. 3-2 (2) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Salinity Wedge Station)
of Monthly Survey.

Testing Date : January 10 - 18, 1989.

3rd Stage (Sampled on 11th Dec. at St. D, K, I, J and
Sampled on 14th Dec. 1988 at St. A, B, C, E.)

Sample No. : F
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	-
Sand (74 - 2000 μ m)	%	:	4.00
Silt (5 - 74 μ m)	%	:	40.00
Clay (less than 5 μ m)	%	:	56.00
Diameter of Maximum Grain	mm	:	-
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc	:	-
Diameter of 50 %	D50	mm	: 0.0034
Diameter of 25 %	D25	mm	: -
Diameter of 75 %	D75	mm	: 0.0145
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.567

Natural Water Content Wn % : 102.55

Ignition Loss Li % : 10.93

Shear Strength (In-situ Vane Test) kgf/cm² : 0.049

Notes

From In-situ Observation

Soil Name : CLAY
Soil Color : Grey (inside)
Brown (surface)
Others :

Form Soil Test : CLAY and SILT trace sand

Table 2. 3-2 (2) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Salinity Wedge Station)
of Monthly Survey.

Testing Date : January 10 - 18, 1989.

3rd Stage (Sampled on 11th Dec. at St. D, F, I, J and
Sampled on 14th Dec. 1988 at St. A, B, C, E.)

Sample No. : I
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	-
Sand (74 - 2000 μ m)	%	:	9.00
Silt (5 - 74 μ m)	%	:	40.00
Clay (less than 5 μ m)	%	:	51.00
Diameter of Maximum Grain	mm	:	-
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.0045
Diameter of 25 %	D25	mm	: -
Diameter of 75 %	D75	mm	: 0.31
Sorting	Sc	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.527

Natural Water Content Wn % : 137.00

Ignition Loss Li % : 12.87

Shear Strength (In-situ Vane Test) kgf/cm² : 0.005

Notes

From In-situ Observation

Soil Name : SILT
Soil Color : Brown
Others : Soft

Form Soil Test : CLAY and SILT trace sand

Table 2. 3-2 (21) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Salinity Wedge Station)
of Monthly Survey.

Testing Date : January 10 - 18, 1989.

3rd Stage (Sampled on 11th Dec. at St. D, F, I, J and
Sampled on 14th Dec. 1988 at St. A, B, C, E.)

Sample No. : J
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	0.80
Sand (74 - 2000 μ m)	%	:	36.20
Silt (5 - 74 μ m)	%	:	50.00
Clay (less than 5 μ m)	%	:	13.00
Diameter of Maximum Grain	mm	:	-
Coefficient of Uniformity	Uc	:	5.83
Coefficient of Curving Rate	Uc'	:	1.07
Diameter of 50 %	D50	mm	: 0.055
Diameter of 25 %	D25	mm	: 0.018
Diameter of 75 %	D75	mm	: 0.104
Sorting	So	:	0.42
Skewness	Sk	:	0.62

Specific Gravity	Gs	:	2.556

Natural Water Content	Wn	%	: 145.56

Ignition Loss	Li	%	: 14.98

Shear Strength (In-situ Vane Test)	kgf/cm ²	:	0.003

Notes

From In-situ Observation

Soil Name	:	SILT
Soil Color	:	Brown (surface) Black (inside)
Others	:	Very soft. Many wood fragment.
Form Soil Test	:	Sandy SILT with some clay

Table 2. 3-2 (25) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge stat.)
of Monthly Survey

Testing Date : January 23 - 31, 1989

4th Stage (Sampled on 29th Dec.1988 at St.D,F,I,J and
Sampled on 3rd Jan.1989 at St.A,B,C,E.)

Sample No. : A
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	0.02
Sand (74 - 2000 μ m)	%	:	15.98
Silt (5 - 74 μ m)	%	:	46.0
Clay (less than 5 μ m)	%	:	38.0
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50 mm	:	0.016
Diameter of 25 %	D25 mm	:	0.001
Diameter of 75 %	D75 mm	:	0.058
Sorting	So	:	0.13
Skewness	Sk	:	0.23

Specific Gravity Gs : 2.573

Natural Water Content Wn % : 123.22

Ignition Loss Li % : 15.81

Shear Strength (In-situ Vane Test) kgf/cm² : 0.009

Notes

From In-situ Observation

Soil Name : MEDIUM SILT
Soil Color : Brownish Grey
Others :

Form Soil Test : CLAY and SILT with some sand

Table 2. 3-2 (28) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge stat.)
of Monthly Survey

Testing Date : January 23 - 31, 1989

4th Stage (Sampled on 29th Dec.1988 at St.D,F,I,J and
Sampled on 3rd Jan.1989 at St.A,B,C,E.)

Sample No. : B
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	-
Sand (74 - 2000 um)	%	:	2.0
Silt (5 - 74 um)	%	:	31.0
Clay (less than 5 um)	%	:	67.0
Diameter of Maximum Grain	mm	:	2.00
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50 mm	:	0.0018
Diameter of 25 %	D25 mm	:	-
Diameter of 75 %	D75 mm	:	0.0074
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.521

Natural Water Content Wn % : 154.90

Ignition Loss Li % : 15.74

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.009

Notes

From In-situ Observation

Soil Name : SILT
Soil Color : Brown (Surface)
Dark Grey (inside)
Others : Brown silt is very thin
(surface)
Form Soil Test : Silty CLAY trace sand

Table 2.3-2 (Z) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge stat.)
of Monthly Survey

Testing Date : January 23 - 31, 1989

4th Stage (Sampled on 29th Dec.1988 at St.D,F,I,J and
Sampled on 3rd Jan.1989 at St.A,B,C,E.)

Sample No. : C
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	0.10
Sand (74 - 2000 um)	%	:	44.90
Silt (5 - 74 um)	%	:	30.50
Clay (less than 5 um)	%	:	24.50
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.06
Diameter of 25 %	D25	mm	: 0.0055
Diameter of 75 %	D75	mm	: 0.12
Sorting	So	:	0.21
Skewness	Sk	:	0.18

Specific Gravity Gs : 2.548

Natural Water Content Wn % : 142.24

Ignition Loss Li % : 9.75

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.009

Notes

From In-situ Observation

Soil Name : SANDY SILT
Soil Color : Brown (Surface)
Grey Silt (inside)
Others : Brown sandy silt (surface)

Form Soil Test : Clayey silty SAND trace fine
gravel

Table 2. 3-2 (28) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge stat.)
of Monthly Survey

Testing Date : January 23 - 31, 1989

4th Stage (Sampled on 29th Dec.1988 at St.D,F,I,J and
Sampled on 3rd Jan.1989 at St.A,B,C,E.)

Sample No. : D
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	0.14
Sand (74 - 2000 um) %	:	34.86
Silt (5 - 74 um) %	:	39.00
Clay (less than 5 um) %	:	26.00
Diameter of Maximum Grain mm	:	4.76
Coefficient of Uniformity U _c	:	-
Coefficient of Curving Rate U _{c'}	:	-
Diameter of 50 % D ₅₀ mm	:	0.042
Diameter of 25 % D ₂₅ mm	:	0.004
Diameter of 75 % D ₇₅ mm	:	0.10
Sorting S _o	:	0.20
Skewness S _k	:	0.23

Specific Gravity G_s : 2.559

Natural Water Content W_n % : 151.00

Ignition Loss L_i % : 12.80

Shear Strength (In-situ Vane Test) kgf/cm² : 0.022

Notes

From In-situ Observation

Soil Name : SANDY SILT
Soil Color : Black (Silt)
Brown (Sand)
Others : Many wood fragment

Form Soil Test : Clayey sandy SILT

Table 2. 3-2 (2) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge stat.)
of Monthly Survey

Testing Date : January 23 - 31, 1989

4th Stage (Sampled on 29th Dec.1988 at St.D,F,I,J and
Sampled on 3rd Jan.1989 at St.A,B,C,E.)

Sample No. : E
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	-
Sand (74 - 2000 μ m)	%	:	2.0
Silt (5 - 74 μ m)	%	:	36.0
Clay (less than 5 μ m)	%	:	62.0
Diameter of Maximum Grain	mm	:	2.00
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50 mm	:	0.0022
Diameter of 25 %	D25 mm	:	-
Diameter of 75 %	D75 mm	:	0.011
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.524

Natural Water Content Wn % : 91.16

Ignition Loss Li % : 14.16

Shear Strength (In-situ Vane Test) kgf/cm² : 0.009

Notes

From In-situ Observation

Soil Name : SILTY CLAY
Soil Color : Grey
Others :

Form Soil Test : CLAY and SILT trace sand

Table 2. 3-2 (30) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge stat.)
of Monthly Survey

Testing Date : January 23 - 31, 1989

4th Stage (Sampled on 29th Dec.1988 at St.D,F,I,J and
Sampled on 3rd Jan.1989 at St.A,B,C,E.)

Sample No. : F
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	2.00
Silt (5 - 74 um) %	:	38.00
Clay (less than 5 um) %	:	60.00
Diameter of Maximum Grain mm	:	2.00
Coefficient of Uniformity U _c	:	-
Coefficient of Curving Rate U _{c'}	:	-
Diameter of 50 % D ₅₀ mm	:	0.0027
Diameter of 25 % D ₂₅ mm	:	-
Diameter of 75 % D ₇₅ mm	:	0.015
Sorting S _o	:	-
Skewness S _k	:	-

Specific Gravity G_s : 2.590

Natural Water Content W_n % : 117.72

Ignition Loss Li % : 12.15

Shear Strength (In-situ Vane Test) kgf/cm² : 0.044

Notes

From In-situ Observation

Soil Name : SOFT CLAY
Soil Color : Grey
Others : Silt brown is very thin

Form Soil Test : CLAY and SILT trace sand

Table 2. 3-3 (31) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge stat.)
of Monthly Survey

Testing Date : January 23 - 31, 1989

4th Stage (Sampled on 29th Dec.1988 at St.D,F,I,J and
Sampled on 3rd Jan.1989 at St.A,B,C,E.)

Sample No. : I
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	0.22
Sand (74 - 2000 um) %	:	17.04
Silt (5 - 74 um) %	:	44.24
Clay (less than 5 um) %	:	38.50
Diameter of Maximum Grain mm	:	9.52
Coefficient of Uniformity U _c	:	-
Coefficient of Curving Rate U _{c'}	:	-
Diameter of 50 % D ₅₀ mm	:	0.012
Diameter of 25 % D ₂₅ mm	:	-
Diameter of 75 % D ₇₅ mm	:	0.054
Sorting S _o	:	-
Skewness S _k	:	-

Specific Gravity G_s : 2.468

Natural Water Content W_n % : 147.52

Ignition Loss L_i % : 14.13

Shear Strength (In-situ Vane Test) kgf/cm² : 0.009

Notes

From In-situ Observation

Soil Name : SILT WITH SAND GREY
Soil Color : Grey Brown
Others : Many wood fragment

Form Soil Test : CLAY trace sand with some SILT

Table 2. 3-3 (32) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge stat.)
of Monthly Survey

Testing Date : January 23 - 31, 1989

4th Stage (Sampled on 29th Dec.1988 at St.D,F,I,J and
Sampled on 3rd Jan.1989 at St.A,B,C,E.)

Sample No. : J
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m) %	:	0.68
Sand (74 - 2000 μ m) %	:	23.94
Silt (5 - 74 μ m) %	:	41.38
Clay (less than 5 μ m) %	:	34.00
Diameter of Maximum Grain mm	:	9.52
Coefficient of Uniformity U_c	:	-
Coefficient of Curving Rate U_c'	:	-
Diameter of 50 % D_{50} mm	:	0.028
Diameter of 25 % D_{25} mm	:	-
Diameter of 75 % D_{75} mm	:	0.08
Sorting S_o	:	-
Skewness S_k	:	-

Specific Gravity G_s : 2.447

Natural Water Content W_n % : 144.77

Ignition Loss L_i % : 15.47

Shear Strength (In-situ Vane Test) kgf/cm² : 0.048

Notes

From In-situ Observation

Soil Name : COARSE SILT WITH SAND GRAIN
Soil Color : Brown (Surface)
Grey (inside)
Others : Many wood fragment
Form Soil Test : Silty CLAY trace sand

Table 2. 3-3 (3) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station) of Monthly Survey

Testing Date : March 23-30. 1989

5th Stage (Sampled on 31st Jan.-1st Feb. at St.D,F,I,J and Sampled on 6th Feb.1989 at St.A,B,C,E.)

Sample No. : A
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 Um)	%	:	0.02
Sand (74 - 2000 Um)	%	:	2.54
Silt (5 - 74 Um)	%	:	37.44
Clay (less than 5 Um)	%	:	60.00
Diameter of Maximum Grain	mm	:	4.760
Coefficient of Uniformity	Uc	:	--
Coefficient of Curving Rate	Uc'	:	--
Diameter of 50 % (D 50)	mm	:	0.0030
Diameter of 25 % (D 25)	mm	:	--
Diameter of 75 % (D 75)	mm	:	0.0150
Sorting	So	:	--
Skewness	Sk	:	--

Specific Gravity Gs : 2.64

Natural Water Content Wn % : 155.42

Ignition Loss Li % : 13.47

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.007

NOTES

From In-situ Observation

Soil Name : Silt

Soil Color : Greyesh Brown

Others :

From Soil Test

: Silt and Clay trace Sand

Table 2. 3-3 (M) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station) of Monthly Survey

Testing Date : March 23 - 30. 1989

5th Stage (Sampled on 31st Jan.-1st Feb. at St.D,F,I,J and Sampled on 6th Feb.1989 at St.A,B,C,E.)

 Sample No. : B
 Depth :

 Characteristics of Grain Distribution

Gravel (more than 2000 Um)	%	:	0.22
Sand (74 - 2000 Um)	%	:	28.34
Silt (5 - 74 Um)	%	:	45.24
Clay (less than 5 Um)	%	:	26.20
Diameter of Maximum Grain	mm	:	4.760
Coefficient of Uniformity	Uc	:	--
Coefficient of Curving Rate	Uc'	:	--
Diameter of 50 % (D 50)	mm	:	0.0460
Diameter of 25 % (D 25)	mm	:	0.0045
Diameter of 75 % (D 75)	mm	:	0.0850
Sorting	So	:	0.23
Skewness	Sk	:	0.18

 Specific Gravity Gs : 2.68

 Natural Water Content Wn % : 122.78

 Ignition Loss Li % : 9.69

 Shear Strength (In-situ Vane Test) kgf/cm2 : 0.009

 NOTES

From In-situ Observation

Soil Name : Sandy Silt. Silt (Surface)
 Fine Sand (Inside)
 Soil Color : Brownish Grey (Surface)
 Grey (Inside)
 Others :

From Soil Test

: Sandy Clayey SILT

Table 2. 3-3 (35) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station) of Monthly Survey

Testing Date : March 23 - 30. 1989

5th Stage (Sampled on 31st Jan.-1st Feb. at St.D,F,I,J and Sampled on 6th Feb.1989 at St.A,B,C,E.)

Sample No. : C
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 Um)	%	:	0.50
Sand (74 - 2000 Um)	%	:	5.90
Silt (5 - 74 Um)	%	:	39.10
Clay (less than 5 Um)	%	:	54.50
Diameter of Maximum Grain	mm	:	9.520
Coefficient of Uniformity	Uc	:	--
Coefficient of Curving Rate	Uc'	:	--
Diameter of 50 % (D 50)	mm	:	0.0048
Diameter of 25 % (D 25)	mm	:	--
Diameter of 75 % (D 75)	mm	:	0.0180
Sorting	So	:	--
Skewness	Sk	:	--

Specific Gravity Gs : 2.55

Natural Water Content Wn % : 274.00

Ignition Loss Li % : 21.08

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.003

NOTES

From In-situ Observation

Soil Name : Silt

Soil Color : Brownish Grey

Others : Many Wood Fragment

From Soil Test

: SILT and CLAY

Table 2. 3-3 (36) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station) of Monthly Survey

Testing Date : March 23 - 30. 1989

5th Stage (Sampled on 31st Jan.-1st Feb. at St.D,F,I,J and Sampled on 6th Feb.1989 at St.A,B,C,E.)

Sample No. : D
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 Um)	%	:	0.06
Sand (74 - 2000 Um)	%	:	40.60
Silt (5 - 74 Um)	%	:	44.54
Clay (less than 5 Um)	%	:	14.80
Diameter of Maximum Grain	mm	:	4.760
Coefficient of Uniformity	Uc	:	27.30
Coefficient of Curving Rate	Uc'	:	4.16
Diameter of 50 % (D 50)	mm	:	0.0700
Diameter of 25 % (D 25)	mm	:	0.0120
Diameter of 75 % (D 75)	mm	:	0.1180
Sorting	So	:	0.32
Skewness	Sk	:	0.29

Specific Gravity Gs : 2.60

Natural Water Content Wn % : 124.05

Ignition Loss Li % : 13.82

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.024

NOTES

From In-situ Observation

Soil Name : Silt with Sand Grain

Soil Color : Black (Silt)
Yellowish Brown (Sand)

Others :

From Soil Test

: SILT and FINE SAND

Table 2. 3-3 (37) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station) of Monthly Survey

Testing Date : March 23 - 30. 1989

5th Stage (Sampled on 31st Jan.-1st Feb. at St.D,F,I,J and Sampled on 6th Feb.1989 at St.A,B,C,E.)

Sample No. : E
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 Um)	%	:	0.12
Sand (74 - 2000 Um)	%	:	7.54
Silt (5 - 74 Um)	%	:	38.34
Clay (less than 5 Um)	%	:	54.00
Diameter of Maximum Grain	mm	:	4.760
Coefficient of Uniformity	Uc	:	--
Coefficient of Curving Rate	Uc'	:	--
Diameter of 50 % (D 50)	mm	:	0.0040
Diameter of 25 % (D 25)	mm	:	--
Diameter of 75 % (D 75)	mm	:	0.0180
Sorting	So	:	--
Skewness	Sk	:	--

Specific Gravity Gs : 2.58

Natural Water Content Wn % : 151.26

Ignition Loss Li % : 14.64

Shear Strength (In-situ Vane Test) kgf/cm² : 0.055

NOTES

From In-situ Observation

Soil Name : Clay

Soil Color : Brownish Grey

Others :

From Soil Test

: SILT and CLAY trace Fine Sand

Table 2. 3-3 (38) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station) of Monthly Survey

Testing Date : March 23 - 30. 1989

5th Stage (Sampled on 31st Jan.-1st Feb. at St.D,F,I,J and Sampled on 6th Feb.1989 at St.A,B,C,E.)

Sample No. : F
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 Um)	%	:	--
Sand (74 - 2000 Um)	%	:	3.50
Silt (5 - 74 Um)	%	:	27.00
Clay (less than 5 Um)	%	:	69.50
Diameter of Maximum Grain	mm	:	2.000
Coefficient of Uniformity	Uc	:	--
Coefficient of Curving Rate	Uc'	:	--
Diameter of 50 % (D 50)	mm	:	0.0010
Diameter of 25 % (D 25)	mm	:	--
Diameter of 75 % (D 75)	mm	:	0.0078
Sorting	So	:	--
Skewness	Sk	:	--

Specific Gravity Gs : 2.63

Natural Water Content Wn % : 124.96

Ignition Loss Li % : 12.52

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.017

NOTES

From In-situ Observation

Soil Name : Clay

Soil Color : Brown (Surface)
Grey (Inside)

Others :

From Soil Test

: Silty CLAY

Table 2. 3-3 (39) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station) of Monthly Survey

Testing Date : March 23 - 30. 1989

5th Stage (Sampled on 31st Jan.-1st Feb. at St.D,F,I,J and Sampled on 6th Feb.1989 at St.A,B,C,E.)

 Sample No. : I
 Depth :

 Characteristics of Grain Distribution

Gravel (more than 2000 Um)	%	:	0.38
Sand (74 - 2000 Um)	%	:	19.40
Silt (5 - 74 Um)	%	:	41.32
Clay (less than 5 Um)	%	:	38.90
Diameter of Maximum Grain	mm	:	4.760
Coefficient of Uniformity	Uc	:	--
Coefficient of Curving Rate	Uc'	:	--
Diameter of 50 % (D 50)	mm	:	0.0130
Diameter of 25 % (D 25)	mm	:	0.0012
Diameter of 75 % (D 75)	mm	:	0.0650
Sorting	So	:	0.14
Skewness	Sk	:	0.46

 Specific Gravity Gs : 2.56

 Natural Water Content Wn % : 164.56

 Ignition Loss Li % : 13.79

 Shear Strength (In-situ Vane Test) kgf/cm2 : 0.014

 NOTES

From In-situ Observation

Soil Name : Soft Mud with Fine Sand Grain

Soil Color : Brownish Grey

Others :

From Soil Test

: CLAY and SILT

Table 2. 3-3 (40) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station) of Monthly Survey

Testing Date : March 23 - 30. 1989

5th Stage (Sampled on 31st Jan.-1st Feb. at St.D,F,I,J and Sampled on 6th Feb.1989 at St.A,B,C,E.)

Sample No. : J
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 Um)	%	:	0.06
Sand (74 - 2000 Um)	%	:	10.94
Silt (5 - 74 Um)	%	:	36.80
Clay (less than 5 Um)	%	:	52.20

Diameter of Maximum Grain	mm	:	4.760
---------------------------	----	---	-------

Coefficient of Uniformity	Uc	:	--
Coefficient of Curving Rate	Uc'	:	--

Diameter of 50 % (D 50)	mm	:	0.0040
Diameter of 25 % (D 25)	mm	:	--
Diameter of 75 % (D 75)	mm	:	0.0220

Sorting	So	:	--
Skewness	Sk	:	--

Specific Gravity	Gs	:	2.59
------------------	----	---	------

Natural Water Content	Wn %	:	155.03
-----------------------	------	---	--------

Ignition Loss	Li %	:	15.58
---------------	------	---	-------

Shear Strength (In-situ Vane Test)	kgf/cm2	:	0.017
------------------------------------	---------	---	-------

NOTES

From In-situ Observation

Soil Name : Clayey Silt

Soil Color : Brown is very thin (Surface)
Dark Grey (Inside)

Others :

From Soil Test

: SILT and CLAY with some Sand

Table 2.3-2 (41) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station) of Monthly Survey

Testing Date : May . 1989

6th Stage (Sampled on 16th-17th Mar. at St.D,F,I,J and Sampled on 20th Mar.1989 at St.A,B,C,E.)

Sample No. : A
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 Um)	%	:	--
Sand (74 - 2000 Um)	%	:	5.72
Silt (5 - 74 Um)	%	:	48.28
Clay (less than 5 Um)	%	:	46.00
Diameter of Maximum Grain	mm	:	2.000
Coefficient of Uniformity	Uc	:	--
Coefficient of Curving Rate	Uc'	:	--
Diameter of 50 % (D 50)	mm	:	0.0065
Diameter of 25 % (D 25)	mm	:	--
Diameter of 75 % (D 75)	mm	:	0.0250
Sorting	So	:	--
Skewness	Sk	:	--

Specific Gravity Gs : 2.57

Natural Water Content Wn % : 192.67

Ignition Loss Li % : 15.18

Shear Strength (In-situ Vane Test) kgf/cm² : 0.006

NOTES

From In-situ Observation

Soil Name : S i l t (very soft)

Soil Color : Greyesh Brown

Others :

From Soil Test

: SILT and CLAY trace Sand

Table 2. 3-2 (42) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station) of Monthly Survey

Testing Date : May . 1989

6th Stage (Sampled on 16th-17th Mar. at St.D,F,I,J and Sampled on 20th Mar.1989 at St.A,B,C,E.)

Sample No. : B
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 Um)	%	:	0.22
Sand (74 - 2000 Um)	%	:	4.24
Silt (5 - 74 Um)	%	:	35.54
Clay (less than 5 Um)	%	:	60.00
Diameter of Maximum Grain	mm	:	4.760
Coefficient of Uniformity	Uc	:	--
Coefficient of Curving Rate	Uc'	:	--
Diameter of 50 % (D 50)	mm	:	0.0030
Diameter of 25 % (D 25)	mm	:	--
Diameter of 75 % (D 75)	mm	:	0.0130
Sorting	So	:	--
Skewness	Sk	:	--

Specific Gravity Gs : 2.60

Natural Water Content Wn % : 233.18

Ignition Loss Li % : 16.47

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.004

NOTES

From In-situ Observation

Soil Name : S i l t (very soft)

Soil Color : Greyesh Brown

Others :

From Soil Test

: SILT and CLAY

Table 2. 3-2 (4) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Channel of Banjarmasin Port.
 Survey Item : Bottom Material (Saline Wedge Station) of Monthly Survey
 Testing Date : May . 1989
 6th Stage (Sampled on 16th-17th Mar. at St. D, F, I, J and Sampled on 20th Mar. 1989 at St. A, B, C, E.)

Sample No. : C
 Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 Um)	%	:	0.31
Sand (74 - 2000 Um)	%	:	13.20
Silt (5 - 74 Um)	%	:	38.49
Clay (less than 5 Um)	%	:	48.00
Diameter of Maximum Grain	mm	:	4.760
Coefficient of Uniformity	Uc	:	--
Coefficient of Curving Rate	Uc'	:	--
Diameter of 50 % (D 50)	mm	:	0.0055
Diameter of 25 % (D 25)	mm	:	--
Diameter of 75 % (D 75)	mm	:	0.0340
Sorting	So	:	--
Skewness	Sk	:	--

Specific Gravity Gs : 2.55

Natural Water Content Wn % : 188.56

Ignition Loss Li % : 15.30

Shear Strength (In-situ Vane Test) kgf/cm² : 0.009

NOTES

From In-situ Observation

Soil Name : Silt with little Sand Grain

Soil Color : Greyesh Brown

Others :

From Soil Test

: SILT and CLAY with some Sand

Table 2. 3-2 (M) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station) of Monthly Survey

Testing Date : May . 1989

6th Stage (Sampled on 16th-17th Mar. at St. D, F, I, J and Sampled on 20th Mar. 1989 at St. A, B, C, E.)

Sample No. : D

Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 Um)	%	:	0.39
Sand (74 - 2000 Um)	%	:	16.24
Silt (5 - 74 Um)	%	:	35.37
Clay (less than 5 Um)	%	:	48.00
Diameter of Maximum Grain	mm	:	9.520
Coefficient of Uniformity	Uc	:	--
Coefficient of Curving Rate	Uc'	:	--
Diameter of 50 % (D 50)	mm	:	0.0060
Diameter of 25 % (D 25)	mm	:	--
Diameter of 75 % (D 75)	mm	:	0.0600
Sorting	So	:	--
Skewness	Sk	:	--

Specific Gravity Gs : 2.53

Natural Water Content Wn % : 116.98

Ignition Loss Li % : 12.95

Shear Strength (In-situ Vane Test) kgf/cm² : 0.043

NOTES

From In-situ Observation

Soil Name : Clay (massive)

Soil Color : Grey

Others :

From Soil Test

: SILT and CLAY with some Sand

Table 2. 3-2 (45) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station) of Monthly Survey

Testing Date : May . 1989

6th Stage (Sampled on 16th-17th Mar. at St. D, F, I, J and Sampled on 20th Mar. 1989 at St. A, B, C, E.)

Sample No. : E
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 Um)	%	:	0.09
Sand (74 - 2000 Um)	%	:	53.40
Silt (5 - 74 Um)	%	:	34.51
Clay (less than 5 Um)	%	:	12.00
Diameter of Maximum Grain	mm	:	4.760
Coefficient of Uniformity	Uc	:	26.00
Coefficient of Curving Rate	Uc'	:	11.00
Diameter of 50 % (D 50)	mm	:	0.1040
Diameter of 25 % (D 25)	mm	:	0.0500
Diameter of 75 % (D 75)	mm	:	0.1500
Sorting	So	:	0.58
Skewness	Sk	:	0.69

Specific Gravity Gs : 2.57

Natural Water Content Wn % : 137.62

Ignition Loss Li % : 9.68

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.024

NOTES

From In-situ Observation

Soil Name : Clayey Silt (Surface)
Sand (Inside)
Soil Color : Dark Grey (Surface)
Yellowish Brown (Inside)
Others :

From Soil Test

: Silty FINE SAND with some Clay

Table 2. 3-2 (46) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Channel of Banjarmasin Fort.
 Survey Item : Bottom Material (Saline Wedge Station) of Monthly Survey
 Testing Date : May . 1989
 6th Stage (Sampled on 16th-17th Mar.at St.D,F,I,J and Sampled on 20th Mar.1989 at St.A,B,C,E.)

Sample No. : F
 Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 Um)	%	:	--
Sand (74 - 2000 Um)	%	:	16.99
Silt (5 - 74 Um)	%	:	33.01
Clay (less than 5 Um)	%	:	50.00
Diameter of Maximum Grain	mm	:	2.000
Coefficient of Uniformity	Uc	:	--
Coefficient of Curving Rate	Uc'	:	--
Diameter of 50 % (D 50)	mm	:	0.0050
Diameter of 25 % (D 25)	mm	:	--
Diameter of 75 % (D 75)	mm	:	0.0600
Sorting	So	:	--
Skewness	Sk	:	--

Specific Gravity Gs : 2.55

Natural Water Content Wn % : 111.02

Ignition Loss Li % : 9.91

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.032

NOTES

From In-situ Observation

Soil Name : Silty Clay

Soil Color : Grey and Dark Grey

Others :

From Soil Test

: Silty CLAY - some Sand

Table 2.3-2 (47) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station) of Monthly Survey

Testing Date : May . 1989

6th Stage (Sampled on 16th-17th Mar.at St.D,F,I,J and
Sampled on 20th Mar.1989 at St.A,B,C,E.)

Sample No. : I
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 Um)	%	:	--
Sand (74 - 2000 Um)	%	:	26.65
Silt (5 - 74 Um)	%	:	39.35
Clay (less than 5 Um)	%	:	34.00
Diameter of Maximum Grain	mm	:	2.000
Coefficient of Uniformity	Uc	:	--
Coefficient of Curving Rate	Uc'	:	--
Diameter of 50 % (D 50)	mm	:	0.0360
Diameter of 25 % (D 25)	mm	:	0.0022
Diameter of 75 % (D 75)	mm	:	0.0850
Sorting	So	:	0.16
Skewness	Sk	:	0.14

Specific Gravity Gs : 2.55

Natural Water Content Wn % : 152.02

Ignition Loss Li % : 14.91

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.043

NOTES

From In-situ Observation

Soil Name : Very soft Silt (Surface)
Firm Silt with Fine Sand Grain (Inside)

Soil Color : Brown (Surface)
Grey (Inside)

Others : With Mineral Organic (Inside)

From Soil Test

: Clayey Sandy SILT

Table 2. 3-2 (48) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in The Access Channel of Banjarmasin Port.
 Survey Item : Bottom Material (Saline Wedge Station) of Monthly Survey
 Testing Date : May . 1989
 6th Stage (Sampled on 16th-17th Mar.at St.D,F,I,J and Sampled on 20th Mar.1989 at St.A,B,C,E.)

Sample No. : J
 Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 Um)	%	:	0.18
Sand (74 - 2000 Um)	%	:	12.60
Silt (5 - 74 Um)	%	:	32.22
Clay (less than 5 Um)	%	:	55.00
Diameter of Maximum Grain	mm	:	4.760
Coefficient of Uniformity	Uc	:	--
Coefficient of Curving Rate	Uc'	:	--
Diameter of 50 % (D 50)	mm	:	0.0038
Diameter of 25 % (D 25)	mm	:	--
Diameter of 75 % (D 75)	mm	:	0.0400
Sorting	So	:	--
Skewness	Sk	:	--

Specific Gravity Gs : 2.58

Natural Water Content Wn % : 246.39

Ignition Loss Li % : 17.24

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.005

NOTES

From In-situ Observation

Soil Name : S i l t (very soft)

Soil Color : Greyesh Brown

Others :

From Soil Test

: Silty CLAY with some Sand

Table 2. 3-2 (49) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge stat.) of
Monthly Survey

Testing Date : June, 1989

7th Stage (Sampled on 30th Apr. at St. A, B, C, E and
Sampled on 13th May 1989 at St. D, F, I, J.)

Sample No. : A

Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	0.03
Sand (74 - 2000 μ m)	%	:	8.40
Silt (5 - 74 μ m)	%	:	59.57
Clay (less than 5 μ m)	%	:	32.00
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.014
Diameter of 25 %	D25	mm	: 0.003
Diameter of 75 %	D75	mm	: 0.031
Sorting	So	:	0.31
Skewness	Sk	:	0.47

Specific Gravity Gs : 2.59

Natural Water Content Wn % : 105.30

Ignition Loss Li % : 13.68

Shear Strength (In-situ Vane Test) kgf/cm² : 0.027

Notes

From In-situ Observation

Soil Name : Soft Mud (Surface)
Mud (Inside)
Soil Color : Brown (Surface)
Brownish Grey (Inside)
Others :

Form Soil Test : Clayey SILT

Table 2. 3-2 (50) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge stat.) of
Monthly Survey

Testing Date : June, 1989

7th Stage (Sampled on 30th Apr. at St. A, B, C, E and
Sampled on 13th May 1989 at St D, F, I, J.)

Sample No. : B
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	0.01
Sand (74 - 2000 um)	%	:	2.67
Silt (5 - 74 um)	%	:	33.32
Clay (less than 5 um)	%	:	64.00
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50 mm	:	0.0018
Diameter of 25 %	D25 mm	:	-
Diameter of 75 %	D75 mm	:	0.009
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.54

Natural Water Content Wn % : 195.91

Ignition Loss Li % : 15.21

Shear Strength (In-situ Vane Test) kgf/cm² : 0.009

Notes

From In-situ Observation

Soil Name : Silty very soft
Soil Color : Greyish Brown
Others :

Form Soil Test : Silty CLAY

Table 2. 3-2 (51) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge stat.) of
Monthly Survey

Testing Date : June, 1989

7th Stage (Sampled on 30th Apr. at St. A, B, C, E and
Sampled on 13th May 1989 at St. D, F, I, J.)

Sample No. : C
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	0.80
Sand (74 - 2000 um)	%	:	6.67
Silt (5 - 74 um)	%	:	44.53
Clay (less than 5 um)	%	:	48.00
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50 mm	:	0.0054
Diameter of 25 %	D25 mm	:	-
Diameter of 75 %	D75 mm	:	0.02
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.56

Natural Water Content Wn % : 194.33

Ignition Loss Li % : 15.16

Shear Strength (In-situ Vane Test) kgf/cm² : 0.016

Notes

From In-situ Observation

Soil Name : Silt
Soil Color : Greyesh Brown
Others :

Form Soil Test : CLAY and SILT trace sand

Table 2. 3-2 (52) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge stat.) of
Monthly Survey

Testing Date : June, 1989

7th Stage (Sampled on 30th Apr. at St.A,B,C,E and
Sampled on 13th May 1989 at St.D,F,I,J.)

Sample No. : D
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	0.04
Sand (74 - 2000 um)	%	:	41.28
Silt (5 - 74 um)	%	:	40.68
Clay (less than 5 um)	%	:	18.00
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.075
Diameter of 25 %	D25	mm	: 0.013
Diameter of 75 %	D75	mm	: 0.105
Sorting	So	:	0.35
Skewness	Sk	:	0.24

Specific Gravity Gs : 2.64

Natural Water Content Wn % : 92.92

Ignition Loss Li % : 8.64

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.018

Notes

From In-situ Observation

Soil Name : Clayey Silt
Soil Color : Dark Grey
Others :

Form Soil Test : SILT and Fine SAND with some
clay

Table 2. 3-2 (53) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge stat.) of
Monthly Survey

Testing Date : June, 1989

7th Stage (Sampled on 30th Apr. at St. A, B, C, E and
Sampled on 13th May 1989 at St. D, F, I, J.)

Sample No. : E
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	0.01
Sand (74 - 2000 μ m)	%	:	4.32
Silt (5 - 74 μ m)	%	:	31.67
Clay (less than 5 μ m)	%	:	64.00
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.0018
Diameter of 25 %	D25	mm	: -
Diameter of 75 %	D75	mm	: 0.0105
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.57

Natural Water Content Wn % : 177.58

Ignition Loss Li % : 14.25

Shear Strength (In-situ Vane Test) kgf/cm² : 0.018

Notes

From In-situ Observation

Soil Name : Silty Clay
Soil Color : Dark Grey
Others :

Form Soil Test : CLAY and SILT

Table 2. 3-2 (M) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge stat.) of
Monthly Survey

Testing Date : June, 1989

7th Stage (Sampled on 30th Apr. at St. A, B, C, E and
Sampled on 13th May 1989 at St. D, F, I, J.)

Sample No. : F
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	-
Sand (74 - 2000 μ m)	%	:	2.92
Silt (5 - 74 μ m)	%	:	39.08
Clay (less than 5 μ m)	%	:	58.00
Diameter of Maximum Grain	mm	:	2.00
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.0031
Diameter of 25 %	D25	mm	: -
Diameter of 75 %	D75	mm	: 0.0108
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.59

Natural Water Content Wn % : 117.92

Ignition Loss Li % : 11.81

Shear Strength (In-situ Vane Test) kgf/cm² : 0.034

Notes

From In-situ Observation

Soil Name : Silty (Surface) Clay (Inside)
Soil Color : Brown (Surface)
Dark Grey (Inside)

Others :

Form Soil Test : CLAY and SILT

Table 2. 3-2 (55) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge stat.) of
Monthly Survey

Testing Date : June, 1989

7th Stage (Sampled on 30th Apr. at St. A, B, C, E and
Sampled on 13th May 1989 at St. D, F, I, J.)

Sample No. : I
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	0.04
Sand (74 - 2000 um)	%	:	19.07
Silt (5 - 74 um)	%	:	40.89
Clay (less than 5 um)	%	:	40.00
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50 mm	:	0.0104
Diameter of 25 %	D25 mm	:	0.0013
Diameter of 75 %	D75 mm	:	0.0605
Sorting	So	:	0.15
Skewness	Sk	:	0.73

Specific Gravity Gs : 2.60

Natural Water Content Wn % : 116.03

Ignition Loss Li % : 14.33

Shear Strength (In-situ Vane Test) kgf/cm² : 0.051

Notes

From In-situ Observation

Soil Name : Sandy Silt (Surface)
Silt (Inside)
Soil Color : Brown (Surface)
Dark Grey (Inside)
Others :

Form Soil Test : CLAY and SILT

Table 2. 3-2 (57) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey.

Testing Date : August 4-9, 1989

8th Stage (Sampled on 7th May at St.D,F,I(E),J(E) and
Sampled on 11th June 1989 at St.A(E),B(E),C(E),E.)

Sample No. : A
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	9.36
Silt (5 - 74 um) %	:	32.64
Clay (less than 5 um) %	:	58.00
Diameter of Maximum Grain mm	:	0.84
Coefficient of Uniformity U _c	:	-
Coefficient of Curving Rate U _{c'}	:	-
Diameter of 50 % D ₅₀ mm	:	0.0019
Diameter of 25 % D ₂₅ mm	:	-
Diameter of 75 % D ₇₅ mm	:	0.0224
Sorting S _o	:	-
Skewness S _k	:	-

Specific Gravity G_s : 2.62

Natural Water Content W_n % : 117.01

Ignition Loss L_i % : 9.32

Shear Strength (In-situ Vane Test) kgf/cm² : 0.034

Notes

From In-situ Observation

Soil Name : Soft Silt (Surface)
Silt (Inside)
Soil Color : Brown (Surface)
Grey and Dark Grey (Inside)
Others :

Form Soil Test : Silty CLAY trace sand

Table 2. 3-2 (58) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey.

Testing Date : August 4-9, 1989

8th Stage (Sampled on 7th May at St.D,F,I(E),J(E) and
Sampled on 11th June 1989 at St.A(E),B(E),C(E),E.)

Sample No. : B
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	0.01
Sand (74 - 2000 um) %	:	45.95
Silt (5 - 74 um) %	:	40.04
Clay (less than 5 um) %	:	14.00
Diameter of Maximum Grain mm	:	4.76
Coefficient of Uniformity U _c	:	55.1
Coefficient of Curving Rate U _{c'}	:	6.42
Diameter of 50 % D ₅₀ mm	:	0.799
Diameter of 25 % D ₂₅ mm	:	0.023
Diameter of 75 % D ₇₅ mm	:	0.125
Sorting S _o	:	0.43
Skewness S _k	:	0.005

Specific Gravity G_s : 2.66

Natural Water Content W_n % : 95.31

Ignition Loss L_i % : 8.29

Shear Strength (In-situ Vane Test) kgf/cm² : 0.025

Notes

From In-situ Observation

Soil Name : Alternation of Fine Sand and Silt
Soil Color : Dark Grey and Brown (Fine Sand)
Grey (Silt)
Others :

Form Soil Test : SILT and fine SAND with some clay

Table 2. 3-2 (59) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey.

Testing Date : August 4-9, 1989

8th Stage (Sampled on 7th May at St.D,F,I(E),J(E) and
Sampled on 11th June 1989 at St.A(E),B(E),C(E),E.)

Sample No. : C
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	0.01
Sand (74 - 2000 um)	%	:	6.37
Silt (5 - 74 um)	%	:	27.62
Clay (less than 5 um)	%	:	66.00
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50 mm	:	-
Diameter of 25 %	D25 mm	:	-
Diameter of 75 %	D75 mm	:	0.0102
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.59

Natural Water Content Wn % : 188.00

Ignition Loss Li % : 14.71

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.010

Notes

From In-situ Observation

Soil Name : Silt is very Thin (Surface)
Silt (Inside)
Soil Color : Brown (Surface)
Dark Grey (Inside)
Others : Little Mineral Organic
Form Soil Test : Silty CLAY trace sand

Table 2. 3-2 (60) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey.

Testing Date : August 4-9, 1989

8th Stage (Sampled on 7th May at St.D,F,I(E),J(E) and
Sampled on 11th June 1989 at St.A(E),B(E),C(E),E.)

Sample No. : D
Depth :

Characteristics of Grain Distribution

Gravel (more than 20000 um)	%	:	0.02
Sand (74 - 20000 um)	%	:	5.83
Silt (5 - 74 um)	%	:	25.15
Clay (less than 5 um)	%	:	69.00
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50 mm	:	-
Diameter of 25 %	D25 mm	:	-
Diameter of 75 %	D75 mm	:	0.0086
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.61

Natural Water Content Wn % : 163.12

Ignition Loss Li % : 14.03

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.032

Notes

From In-situ Observation

Soil Name : Soft Silt (Surface)
Clay massive (Inside)
Soil Color : Brown (Surface)
Black and Grey (Inside)
Others : Mineral Organic

Form Soil Test : Silty CLAY trace sand

Table 2. 3-2 (61) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey.

Testing Date : August 4-9, 1989

8th Stage (Sampled on 7th May at St.D,F,I(E),J(E) and
Sampled on 11th June 1989 at St.A(E),B(E),C(E),E.)

Sample No. : E
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	0.24
Sand (74 - 2000 um) %	:	8.02
Silt (5 - 74 um) %	:	39.74
Clay (less than 5 um) %	:	52.00
Diameter of Maximum Grain mm	:	9.52
Coefficient of Uniformity U _c	:	-
Coefficient of Curving Rate U _{c'}	:	-
Diameter of 50 % D ₅₀ mm	:	0.0042
Diameter of 25 % D ₂₅ mm	:	-
Diameter of 75 % D ₇₅ mm	:	0.021
Sorting S _o	:	-
Skewness S _k	:	-

Specific Gravity G_s : 2.62

Natural Water Content W_n % : 166.70

Ignition Loss L_i % : 12.21

Shear Strength (In-situ Vane Test) kgf/cm² : 0.024

Notes

From In-situ Observation

Soil Name : Silty is Very Thin (Surface)
Silty (Inside)
Soil Color : Brown (Surface)
Dark Grey (Inside)
Others : Mineral organic

From Soil Test : SILT and CLAY trace sand and
gravel

Table 2. 3-2 (62) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey.

Testing Date : August 4-9, 1989

8th Stage (Sampled on 7th May at St.D,F,I(E),J(E) and
Sampled on 11th June 1989 at St.A(E),B(E),C(E),E.)

Sample No. : F
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	97.05
Silt (5 - 74 um) %	:	2.95
Clay (less than 5 um) %	:	-
Diameter of Maximum Grain mm	:	2.00
Coefficient of Uniformity Uc	:	1.6
Coefficient of Curving Rate Uc'	:	1.2
Diameter of 50 % D50 mm	:	0.224
Diameter of 25 % D25 mm	:	0.203
Diameter of 75 % D75 mm	:	0.348
Sorting So	:	0.76
Skewness Sk	:	1.41

Specific Gravity Gs : 2.73

Natural Water Content Wn % : 31.66

Ignition Loss Li % : 1.16

Shear Strength (In-situ Vane Test) kgf/cm² : 0.024

Notes

From In-situ Observation

Soil Name : Sand (Very Light)
Soil Color : Greyish Brown
Others :

Form Soil Test : SAND trace silt

Table 2. 3-2 (6) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey.

Testing Date : August 4-9, 1989

8th Stage (Sampled on 7th May at St.D,F,I(E),J(E) and
Sampled on 11th June 1989 at St.A(E),B(E),C(E),E.)

Sample No. : I

Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	12.84
Silt (5 - 74 um) %	:	37.16
Clay (less than 5 um) %	:	50.00

Diameter of Maximum Grain mm	:	2.00
------------------------------	---	------

Coefficient of Uniformity U _c	:	-
--	---	---

Coefficient of Curving Rate U _{c'}	:	-
---	---	---

Diameter of 50 % D ₅₀ mm	:	0.0054
-------------------------------------	---	--------

Diameter of 25 % D ₂₅ mm	:	-
-------------------------------------	---	---

Diameter of 75 % D ₇₅ mm	:	0.031
-------------------------------------	---	-------

Sorting S _o	:	-
------------------------	---	---

Skewness S _k	:	-
-------------------------	---	---

Specific Gravity G _s	:	2.61
---------------------------------	---	------

Natural Water Content W _n %	:	152.44
--	---	--------

Ignition Loss L _i %	:	12.05
--------------------------------	---	-------

Shear Strength (In-situ Vane Test) kgf/cm ²	:	0.034
--	---	-------

Notes

From In-situ Observation

Soil Name : Silt

Soil Color : Brownish Black

Others :

Form Soil Test : SILT and CLAY with some sand

Table 2. 3-2 (61) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey.

Testing Date : August 4-9, 1989

8th Stage (Sampled on 7th May at St.D,F,I(E),J(E) and
Sampled on 11th June 1989 at St.A(E),B(E),C(E),E.)

Sample No. : J
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m) %	:	-
Sand (74 - 2000 μ m) %	:	7.39
Silt (5 - 74 μ m) %	:	40.61
Clay (less than 5 μ m) %	:	52.00
Diameter of Maximum Grain mm	:	2.00
Coefficient of Uniformity U_c	:	-
Coefficient of Curving Rate U_c'	:	-
Diameter of 50 % D_{50} mm	:	0.0044
Diameter of 25 % D_{25} mm	:	-
Diameter of 75 % D_{75} mm	:	0.019
Sorting S_o	:	-
Skewness S_k	:	-

Specific Gravity G_s : 2.57

Natural Water Content W_n % : 183.96

Ignition Loss L_i % : 13.51

Shear Strength (In-situ Vane Test) kgf/cm² : 0.024

Notes

From In-situ Observation

Soil Name : Clayey Silt with Fine sand
Soil Color : Grey (Clayey Silt)
Brownish Grey (Fine Sand)
Others : Mineral organic

Form Soil Test : SILT and CLAY trace sand

Table 2.3-2 (65) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : August 7-11, 1989

9th Stage (Sampled on 24th June at St.A(E),C(E),E,G and
Sampled on 28th June 1989 at St.B(E),D,F,H.)

Sample No. : A
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	0.05
Sand (74 - 2000 um) %	:	6.29
Silt (5 - 74 um) %	:	37.66
Clay (less than 5 um) %	:	56.00
Diameter of Maximum Grain mm	:	4.76
Coefficient of Uniformity Uc	:	-
Coefficient of Curving Rate Uc'	:	-
Diameter of 50 % D50 mm	:	0.0031
Diameter of 25 % D25 mm	:	-
Diameter of 75 % D75 mm	:	0.018
Sorting So	:	-
Skewness Sk	:	-

Specific Gravity Gs : 2.63

Natural Water Content Wn % : 132.79

Ignition Loss Li % : 10.32

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.012

Notes

From In-situ Observation

Soil Name : Silt, Very Soft (Surface)
Course Silt (Inside)
Soil Color : Yellowish Grey (Surface)
Dark Grey (Inside)
Others : With Mikro Organism (Inside)
Form Soil Test : SILT and CLAY trace sand

Table 2. 3-2 (66) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : August 7-11, 1989

9th Stage (Sampled on 24th June at St.A(E),C(E),E,G and
Sampled on 28th June 1989 at St.B(E),D,F,H.)

Sample No. : B
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	21.25
Silt (5 - 74 um) %	:	33.75
Clay (less than 5 um) %	:	45.00
Diameter of Maximum Grain mm	:	2.00
Coefficient of Uniformity Uc	:	-
Coefficient of Curving Rate Uc'	:	-
Diameter of 50 % D50 mm	:	0.0091
Diameter of 25 % D25 mm	:	-
Diameter of 75 % D75 mm	:	0.0720
Sorting So	:	-
Skewness Sk	:	-

Specific Gravity Gs : 2.65

Natural Water Content Wn % : 126.82

Ignition Loss Li % : 11.59

Shear Strength (In-situ Vane Test) kgf/cm² : 0.032

Notes

From In-situ Observation
Soil Name : Fine Sand (Surface)
Silt with Fine Sand Grain (Inside)
Soil Color : Brown (Surface)
Black (Silt/Inside)
Dark Grey (Fine Sand/Inside)
Others :
Form Soil Test : Silty Sandy CLAY

Table 2. 3-2 (67) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : August 7-11, 1989

9th Stage (Sampled on 24th June at St.A(E),C(E),E,G and
Sampled on 28th June 1989 at St.B(E),D,F,H.)

Sample No. : C
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	2.74
Silt (5 - 74 um) %	:	35.26
Clay (less than 5 um) %	:	62.00
Diameter of Maximum Grain mm	:	2.00
Coefficient of Uniformity U _c	:	-
Coefficient of Curving Rate U _{c'}	:	-
Diameter of 50 % D ₅₀ mm	:	0.0028
Diameter of 25 % D ₂₅ mm	:	-
Diameter of 75 % D ₇₅ mm	:	0.0095
Sorting S _o	:	-
Skewness S _k	:	-

Specific Gravity G_s : 2.61

Natural Water Content W_n % : 161.13

Ignition Loss Li % : 15.43

Shear Strength (In-situ Vane Test) kgf/cm² : 0.018

Notes

From In-situ Observation

Soil Name : Mud is Very Thin (Surface)
Mud (Inside)
Soil Color : Brown (Surface)
Dark Grey (Inside)
Others : With Little Wood Fragment (Inside)

Form Soil Test : SILT and CLAY trace sand

Table 2. 3-2 (88) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : August 7-11, 1989

9th Stage (Sampled on 24th June at St.A(E),C(E),E,G and
Sampled on 28th June 1989 at St.B(E),D,F,II.)

Sample No. : D
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	0.03
Sand (74 - 2000 um)	%	:	87.55
Silt (5 - 74 um)	%	:	12.42
Clay (less than 5 um)	%	:	-
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50 mm	:	0.1600
Diameter of 25 %	D25 mm	:	0.116
Diameter of 75 %	D75 mm	:	0.1670
Sorting	So	:	0.83
Skewness	Sk	:	0.76

Specific Gravity Gs : 2.73

Natural Water Content Wn % : 49.88

Ignition Loss Li % : 2.64

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.014

Notes

From In-situ Observation

Soil Name : Fine Sand
Soil Color : Brown
Others :

Form Soil Test : Fine SAND with some silt

Table 2. 3-2 (00) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : August 7-11, 1989

9th Stage (Sampled on 24th June at St.A(E),C(E),E,G and
Sampled on 28th June 1989 at St.B(E),D,F,H.)

Sample No. : E
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	0.03
Sand (74 - 2000 um)	%	:	84.62
Silt (5 - 74 um)	%	:	15.35
Clay (less than 5 um)	%	:	-
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.1500
Diameter of 25 %	D25	mm	: 0.11
Diameter of 75 %	D75	mm	: 0.1600
Sorting	So	:	0.83
Skewness	Sk	:	0.78

Specific Gravity Gs : 2.71

Natural Water Content Wn % : 54.75

Ignition Loss Li % : 4.15

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.024

Notes

From In-situ Observation

Soil Name : Fine Sand, Light (Surface)
Soft Clay (Inside)
Soil Color : Brown (Surface)
Grey (Inside)
Others :

Form Soil Test : Fine SAND, some silt

Table 2. 3-2 (70) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : August 7-11, 1989

9th Stage (Sampled on 24th June at St.A(E),C(E),E,G and
Sampled on 28th June 1989 at St.B(E),D,F,H.)

Sample No. : F
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-	
Sand (74 - 2000 um) %	:	3.87	
Silt (5 - 74 um) %	:	40.13	
Clay (less than 5 um) %	:	56.00	
Diameter of Maximum Grain mm	:	2.00	
Coefficient of Uniformity Uc	:	-	
Coefficient of Curving Rate Uc'	:	-	
Diameter of 50 % D50 mm	:	0.0038	
Diameter of 25 % D25 mm	:	-	
Diameter of 75 % D75 mm	:	0.0136	
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.68

Natural Water Content Wn % : 112.80

Ignition Loss Li % : 11.02

Shear Strength (In-situ Vane Test) kgf/cm² : 0.004

Notes

From In-situ Observation

Soil Name : Silt is Very Thin (Surface)
Clayey Silt (Inside)

Soil Color : Brown (Surface)
Grey and Dark Grey (Inside)

Others :

Form Soil Test : SILT and CLAY trace sand

Table 2. 3-2 (71) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : August 7-11, 1989

9th Slage (Sampled on 24th June at St.A(E),C(E),E,G and
Sampled on 28th June 1989 at St.B(E),D,F,H.)

Sample No. : G
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m) %	:	-
Sand (74 - 2000 μ m) %	:	10.59
Silt (5 - 74 μ m) %	:	40.41
Clay (less than 5 μ m) %	:	49.00
Diameter of Maximum Grain mm	:	2.00
Coefficient of Uniformity U_c	:	-
Coefficient of Curving Rate U_c'	:	-
Diameter of 50 % D_{50} mm	:	0.0053
Diameter of 25 % D_{25} mm	:	-
Diameter of 75 % D_{75} mm	:	0.025
Sorting S_o	:	-
Skewness S_k	:	-

Specific Gravity G_s : 2.63

Natural Water Content W_n % : 132.73

Ignition Loss L_i % : 8.19

Shear Strength (In-situ Vane Test) kgf/cm² : 0.026

Notes

From In-situ Observation

Soil Name : Clayey Silt, with Little Fine Sand
Soil Color : Brownish Grey (clayey silt)
Brown (Fine Sand)
Others :

Form Soil Test : SILT and CLAY trace sand

Table 2. 3-2 (72) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : August 7-11, 1989

9th Stage (Sampled on 24th June at St.A(E),C(E),E,G and
Sampled on 28th June 1989 at St.B(E),D,F,H.)

Sample No. : H
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	47.86
Silt (5 - 74 um) %	:	38.14
Clay (less than 5 um) %	:	14.00
Diameter of Maximum Grain mm	:	2.00
Coefficient of Uniformity Uc	:	96.0
Coefficient of Curving Rate Uc	:	22.0
Diameter of 50 % D50 mm	:	0.0850
Diameter of 25 % D25 mm	:	0.034
Diameter of 75 % D75 mm	:	0.1050
Sorting So	:	0.57
Skewness Sk	:	0.49

Specific Gravity Gs : 2.70

Natural Water Content Wn % : 73.09

Ignition Loss Li % : 5.52

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.026

Notes

From In-situ Observation

Soil Name : Silty Fine Sand
Soil Color : Brownish Grey
Others :

Form Soil Test : SILT and SAND, some clay

Table 2. 3-2 (7) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : August 11-12, 1989

10th Stage (Sampled on 8th July at St.A,C,E,G and
Sampled on 10th JULY 1989 at St.B,D,F,H.)

Sample No. : A
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	-
Sand (74 - 2000 um)	%	:	0.98
Silt (5 - 74 um)	%	:	34.02
Clay (less than 5 um)	%	:	65.00
Diameter of Maximum Grain	mm	:	2.0
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50 mm	:	-
Diameter of 25 %	D25 mm	:	-
Diameter of 75 %	D75 mm	:	0.0108
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.56

Natural Water Content Wn % : 201.10

Ignition Loss Li % : 13.92

Shear Strength (In-situ Vane Test) kgf/cm² : 0.005

Notes

From In-situ Observation

Soil Name : Mud (Surface)
Silt (Inside)
Soil Color : Brown (Surface)
Grey (Inside)
Others :

Form Soil Test : Silty CLAY trace sand

Table 2. 3-2 (7) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : August 11-12, 1989

10th Stage (Sampled on 8th July at St.A,C,E,G and
Sampled on 10th July 1989 at St.B,D,F,H.)

Sample No. : B
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	-
Sand (74 - 2000 um)	%	:	87.84
Silt (5 - 74 um)	%	:	12.16
Clay (less than 5 um)	%	:	-
Diameter of Maximum Grain	mm	:	2.0
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50 mm	:	0.104
Diameter of 25 %	D25 mm	:	0.101
Diameter of 75 %	D75 mm	:	0.138
Sorting	So	:	0.86
Skewness	Sk	:	1.29

Specific Gravity Gs : 2.64

Natural Water Content Wn % : 71.26

Ignition Loss Li % : 5.26

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.017

Notes

From In-situ Observation

Soil Name : Fine Sand
Soil Color : Brown
Others :

Form Soil Test : Fine SAND some silt

Table 2.3-2 (75) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : August 11-12, 1989

10th Stage (Sampled on 8th JULY at St.A,C,E,G and
Sampled on 10th July 1989 at St.B,D,F,H.)

Sample No. : C
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	3.38
Silt (5 - 74 um) %	:	38.62
Clay (less than 5 um) %	:	58.00
Diameter of Maximum Grain mm	:	2.0
Coefficient of Uniformity Uc	:	-
Coefficient of Curving Rate Uc'	:	-
Diameter of 50 % D50 mm	:	0.0027
Diameter of 25 % D25 mm	:	-
Diameter of 75 % D75 mm	:	0.015
Sorting So	:	-
Skewness Sk	:	-

Specific Gravity Gs : 2.65

Natural Water Content Wn % : 168.11

Ignition Loss Li % : 14.42

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.036

Notes

From In-situ Observation

Soil Name : Clayey Silt
Soil Color : Brownish Grey
Others :

Form Soil Test : SILT and CLAY trace sand

Table 2.3-2 (76) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : August 11-15, 1989

10th Stage (Sampled on 8th July at St.A,C,E,G and
Sampled on 10th JULY 1989 at St.B,D,F,H.)

Sample No. : D
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	0.40
Sand (74 - 2000 um) %	:	9.16
Silt (5 - 74 um) %	:	33.44
Clay (less than 5 um) %	:	57.00
Diameter of Maximum Grain mm	:	4.76
Coefficient of Uniformity Uc	:	-
Coefficient of Curving Rate Uc'	:	-
Diameter of 50 % D50 mm	:	0.0031
Diameter of 25 % D25 mm	:	-
Diameter of 75 % D75 mm	:	0.029
Sorting So	:	-
Skewness Sk	:	-

Specific Gravity Gs : 2.67

Natural Water Content Wn % : 124.38

Ignition Loss Li % : 12.95

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.051

Notes

From In-situ Observation

Soil Name : Silty Clay
Soil Color : Grey
Others :

Form Soil Test : Silty CLAY trace sand

Table 2. 3-2 (7) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : August 11-15, 1989

10th Stage (Sampled on 8th July at St.A,C,E,G and
Sampled on 10th July 1989 at St.B,D,F,H.)

Sample No. : E
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	6.46
Silt (5 - 74 um) %	:	39.54
Clay (less than 5 um) %	:	54.00
Diameter of Maximum Grain mm	:	2.00
Coefficient of Uniformity Uc	:	-
Coefficient of Curving Rate Uc'	:	-
Diameter of 50 % D50 mm	:	0.004
Diameter of 25 % D25 mm	:	-
Diameter of 75 % D75 mm	:	0.017
Sorting So	:	-
Skewness Sk	:	-

Specific Gravity Gs : 2.58

Natural Water Content Wn % : 181.31

Ignition Loss Li % : 1.20

Shear Strength (In-situ Vane Test) kgf/cm² : 0.014

Notes

From In-situ Observation

Soil Name : Soft Mud (Surface)
Silt (Inside)
Soil Color : Brown (Surface)
Grey (Inside)
Others :

Form Soil Test : SILT and CLAY trace sand

Table 2. 3-2 (78) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : August 11-15, 1989

10th Stage (Sampled on 8th July at St.A,C,E,G and
Sampled on 10th July 1989 at St.B,D,F,H.)

Sample No. : F
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	16.36
Silt (5 - 74 um) %	:	35.64
Clay (less than 5 um) %	:	48.00
Diameter of Maximum Grain * mm	:	2.00
Coefficient of Uniformity U _c	:	-
Coefficient of Curving Rate U _{c'}	:	-
Diameter of 50 % D ₅₀ mm	:	0.0057
Diameter of 25 % D ₂₅ mm	:	-
Diameter of 75 % D ₇₅ mm	:	0.046
Sorting S _o	:	-
Skewness S _k	:	-

Specific Gravity G_s : 2.61

Natural Water Content W_n % : 146.91

Ignition Loss Li % : 8.88

Shear Strength (In-situ Vane Test) kgf/cm² : 0.020

Notes

From In-situ Observation

Soil Name : Mud (Surface)
Clay (Inside)

Soil Color : Brown (Surface)
Grey (Inside)

Others :

Form Soil Test : SILT and CLAY some sand

Table 2. 3-2 (79) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : August 11-15, 1989

10th Stage (Sampled on 8th July at St.A,C,E,G and
Sampled on 10th July 1989 at St.D,D,F,H.)

Sample No. : G
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	0.38
Sand (74 - 2000 um) %	:	95.70
Silt (5 - 74 um) %	:	3.92
Clay (less than 5 um) %	:	-
Diameter of Maximum Grain mm	:	4.76
Coefficient of Uniformity U _c	:	3.6
Coefficient of Curving Rate U _{c'}	:	1.0
Diameter of 50 % D ₅₀ mm	:	0.380
Diameter of 25 % D ₂₅ mm	:	0.216
Diameter of 75 % D ₇₅ mm	:	0.600
Sorting S _o	:	0.60
Skewness S _k	:	0.90

Specific Gravity G_s : 2.73

Natural Water Content W_n % : 32.42

Ignition Loss L_i % : 14.32

Shear Strength (In-situ Vane Test) kgf/cm² : 0.041

Notes

From In-situ Observation

Soil Name : Medium Sand
Soil Color : Brownish Grey
Others :

Form Soil Test : SAND trace silt

Table 2. 3-2 (80) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : August 11-15, 1989

10th Stage (Sampled on 8th July at St.A,C,E,G and
Sampled on 10th July 1989 at St.B,D,F,H.)

Sample No. : H
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	23.62
Silt (5 - 74 um) %	:	40.38
Clay (less than 5 um) %	:	36.00
Diameter of Maximum Grain mm	:	2.00
Coefficient of Uniformity Uc	:	-
Coefficient of Curving Rate Uc'	:	-
Diameter of 50 % D50 mm	:	0.021
Diameter of 25 % D25 mm	:	0.0017
Diameter of 75 % D75 mm	:	0.076
Sorting So	:	0.15
Skewness Sk	:	0.29

Specific Gravity Gs : 2.63

Natural Water Content Wn % : 90.31

Ignition Loss Li % : 10.13

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.029

Notes

From In-situ Observation

Soil Name : Silt
Soil Color : Grey
Others :

Form Soil Test : Sandy SILT and CLAY

Table 2. 3-2 (81) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : August 24-29, 1989

11th Stage (Sampled on 22nd July at St.A(E),C(E),E,G and
Sampled on 26th July 1989 at St.B(E),D,F,H.)

Sample No. : A
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	-
Sand (74 - 2000 um)	%	:	7.54
Silt (5 - 74 um)	%	:	44.46
Clay (less than 5 um)	%	:	48.0
Diameter of Maximum Grain	mm	:	2.00
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.0059
Diameter of 25 %	D25	mm	: -
Diameter of 75 %	D75	mm	: 0.0299
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.59

Natural Water Content Wn % : 129.77

Ignition Loss Li % : 10.05

Shear Strength (In-situ Vane Test) kgf/cm² : 0.011

Notes

From In-situ Observation

Soil Name : Mud (Surface)
Clay with Fine Sand (Inside)
Soil Color : Brown (Surface)
Brownish Grey (Inside)
Others :

Form Soil Test : SILT and CLAY trace sand

Table 2. 3-2 (82) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : August 24-29, 1989

11th Stage (Sampled on 22nd July at St.A(E),C(E),E,G and
Sampled on 26th July 1989 at St.B(E),D,F,H.)

Sample No. : B
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	0.02
Sand (74 - 2000 um)	%	:	52.48
Silt (5 - 74 um)	%	:	39.50
Clay (less than 5 um)	%	:	8.00
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	13.3
Coefficient of Curving Rate	Uc'	:	4.3
Diameter of 50 %	D50 mm	:	0.086
Diameter of 25 %	D25 mm	:	0.045
Diameter of 75 %	D75 mm	:	0.121
Sorting	So	:	0.61
Skewness	Sk	:	0.74

Specific Gravity Gs : 2.63

Natural Water Content Wn % : 91.50

Ignition Loss Li % : 7.17

Shear Strength (In-situ Vane Test) kgf/cm² : 0.017

Notes

From In-situ Observation

Soil Name : Mud (Surface)
Clay (Inside)
Soil Color : Brown (Surface)
Brownish Grey (Inside)
Others :

Form Soil Test : SILT and fine SAND trace Clay

Table 2. 3-2 (8) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : August 24-29, 1989

11th Stage (Sampled on 22nd July at St.A(E),C(E),E,G and
Sampled on 26th July 1989 at St.B(E),D,F,H.)

Sample No. : C
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	0.08
Sand (74 - 2000 μ m)	%	:	3.36
Silt (5 - 74 μ m)	%	:	32.56
Clay (less than 5 μ m)	%	:	64.00
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.0026
Diameter of 25 %	D25	mm	: -
Diameter of 75 %	D75	mm	: 0.0095
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.56

Natural Water Content Wn % : 188.60

Ignition Loss Li % : 11.89

Shear Strength (In-situ Vane Test) kgf/cm² : 0.014

Notes

From In-situ Observation

Soil Name : Mud (Surface)
Clay (Inside)
Soil Color : Grey (Surface)
Dark Grey (Inside)
Others :

Form Soil Test : Silty CLAY trace sand

Table 2. 3-2 (M) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : August 24-29, 1989

11th Stage (Sampled on 22nd July at St.A(E),C(E),E,G and
Sampled on 26th July 1989 at St.B(E),D,F,H.)

Sample No. : D

Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	-
Sand (74 - 2000 um)	%	:	5.09
Silt (5 - 74 um)	%	:	40.91
Clay (less than 5 um)	%	:	54.00
Diameter of Maximum Grain	mm	:	2.00
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50 mm	:	0.0041
Diameter of 25 %	D25 mm	:	-
Diameter of 75 %	D75 mm	:	0.0205
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.57

Natural Water Content Wn % : 147.40

Ignition Loss Li % : 12.92

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.034

Notes

From In-situ Observation

Soil Name : Fine Sand (Surface)
Clay (Inside)

Soil Color : Brown (Surface)
Grey (Inside)

Others :

Form Soil Test : SILT and CLAY trace sand

Table 2. 3-2 (85) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : August 24-29, 1989

11th Stage (Sampled on 22nd July at St.A(E),C(E),E,G and
Sampled on 26th July 1989 at St.B(E),D,F,H.)

Sample No. : E
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	0.04
Sand (74 - 2000 um) %	:	87.97
Silt (5 - 74 um) %	:	11.99
Clay (less than 5 um) %	:	-
Diameter of Maximum Grain mm	:	4.76
Coefficient of Uniformity Uc	:	-
Coefficient of Curving Rate Uc'	:	-
Diameter of 50 % D50 mm	:	0.13
Diameter of 25 % D25 mm	:	0.11
Diameter of 75 % D75 mm	:	0.14
Sorting So	:	0.89
Skewness Sk	:	0.91

Specific Gravity Gs : 2.68

Natural Water Content Wn % : 74.70

Ignition Loss Li % : 5.58

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.027

Notes

From In-situ Observation

Soil Name : Fine Sand (Surface)
Clayey Fine Sand (Inside)
Soil Color : Grey (Surface)
Dark Grey (Inside)
Others :

Form Soil Test : Fine SAND with some Silt

Table 2. 3-2 (86) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : August 24-29, 1989

11th Stage (Sampled on 22nd July at St.A(E),C(E),E,G and
Sampled on 26th July 1989 at St.B(E),D,F,H.)

Sample No. : F
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	7.66
Silt (5 - 74 um) %	:	38.34
Clay (less than 5 um) %	:	54.00
Diameter of Maximum Grain mm	:	2.00
Coefficient of Uniformity Uc	:	-
Coefficient of Curving Rate Uc'	:	-
Diameter of 50 % D50 mm	:	0.0034
Diameter of 25 % D25 mm	:	-
Diameter of 75 % D75 mm	:	0.022
Sorting So	:	-
Skewness Sk	:	-

Specific Gravity Gs : 2.65

Natural Water Content Wn % : 99.45

Ignition Loss Li % : 10.37

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.014

Notes

From In-situ Observation

Soil Name : Clayey Silt
Soil Color : Grey
Others :

Form Soil Test : SILT and CLAY trace sand

Table 2. 3-2 (87) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : August 24-29, 1989

11th Stage (Sampled on 22nd July at St.A(E),C(E),E,G and
Sampled on 26th July 1989 at St.B(E),D,F,H.)

Sample No. : G
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	0.42
Sand (74 - 2000 um)	%	:	83.56
Silt (5 - 74 um)	%	:	16.02
Clay (less than 5 um)	%	:	-
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.20
Diameter of 25 %	D25	mm	: 0.124
Diameter of 75 %	D75	mm	: 0.25
Sorting	So	:	0.70
Skewness	Sk	:	0.78

Specific Gravity Gs : 2.73

Natural Water Content Wn % : 47.90

Ignition Loss Li % : 1.32

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.034

Notes

From In-situ Observation

Soil Name : Clayey silt, with little Fine Sand
Soil Color : Brownish Grey
Others :

Form Soil Test : Fine SAND, some silt

Table 2.3-2 (88) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : August 24-29, 1989

11th Stage (Sampled on 22nd July at St.A(E),C(E),E,G and
Sampled on 26th July 1989 at St.B(E),D,F,H.)

Sample No. : H
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	-
Sand (74 - 2000 um)	%	:	48.07
Silt (5 - 74 um)	%	:	37.93
Clay (less than 5 um)	%	:	14.00
Diameter of Maximum Grain	mm	:	2.00
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.085
Diameter of 25 %	D25	mm	: 0.032
Diameter of 75 %	D75	mm	: 0.12
Sorting	So	:	0.52
Skewness	Sk	:	0.53

Specific Gravity Gs : 2.74

Natural Water Content Wn % : 41.27

Ignition Loss Li % : 8.49

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.051

Notes

From In-situ Observation

Soil Name : Mud (Surface)
Fine Sand, with little clay (Inside)
Soil Color : Brown (Surface)
Brownish Grey (Inside)
Others :

Form Soil Test : SILT and fine SAND trace clay

Table 2. 3-2 (89) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : September 4-11, 1989

12th Stage (Sampled on 6th Aug. at St. A, C, E, G and
Sampled on 10th Aug. 1989 at St. B, D, F, H.)

Sample No. : A
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	0.03
Sand (74 - 2000 um)	%	:	8.48
Silt (5 - 74 um)	%	:	33.49
Clay (less than 5 um)	%	:	58.00
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.0031
Diameter of 25 %	D25	mm	: -
Diameter of 75 %	D75	mm	: 0.024
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.63

Natural Water Content Wn % : 145.94

Ignition Loss Li % : 12.84

Shear Strength (In-situ Vane Test) kgf/cm² : 0.018

Notes

From In-situ Observation

Soil Name : Mud (Surface)
Clay (Inside)
Soil Color : Brown (Surface)
Dark Grey (Inside)
Others :

Form Soil Test : Silty CLAY, trace sand

Table 2. 3-2 (90) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : September 4-11, 1989

12th Stage (Sampled on 6th Aug. at St. A, C, E, G and
Sampled on 10th Aug. 1989 at St. B, D, F, H.)

Sample No. : B
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	1.21
Silt (5 - 74 um) %	:	29.79
Clay (less than 5 um) %	:	69.00
Diameter of Maximum Grain mm	:	0.84
Coefficient of Uniformity Uc	:	-
Coefficient of Curving Rate Uc'	:	-
Diameter of 50 % D50 mm	:	0.0013
Diameter of 25 % D25 mm	:	-
Diameter of 75 % D75 mm	:	0.0083
Sorting So	:	-
Skewness Sk	:	-

Specific Gravity Gs : 2.57

Natural Water Content Wn % : 198.89

Ignition Loss Li % : 16.86

Shear Strength (In-situ Vane Test) kgf/cm² : 0.014

Notes

From In-situ Observation

Soil Name : Mud (Surface)
Silt (Inside)
Soil Color : Brown (Surface)
Dark Grey (Inside)
Others :

Form Soil Test : Silty CLAY trace sand

Table 2. 3-2 (91) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : September 4-11, 1989

12th Stage (Sampled on 6th Aug. at St. A, C, E, G and
Sampled on 10th Aug. 1989 at St. B, D, F, H.)

Sample No. : C
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	-
Sand (74 - 2000 um) %	:	9.31
Silt (5 - 74 um) %	:	27.69
Clay (less than 5 um) %	:	63.00
Diameter of Maximum Grain mm	:	2.00
Coefficient of Uniformity Uc	:	-
Coefficient of Curving Rate Uc'	:	-
Diameter of 50 % D50 mm	:	0.0021
Diameter of 25 % D25 mm	:	-
Diameter of 75 % D75 mm	:	0.022
Sorting So	:	-
Skewness Sk	:	-

Specific Gravity Gs : 2.59

Natural Water Content Wn % : 178.75

Ignition Loss Li % : 20.38

Shear Strength (In-situ Vane Test) kgf/cm2 : 0.019

Notes

From In-situ Observation

Soil Name : Mud (Surface)
Silt, with Fine Sand (Inside)
Soil Color : Brown (Surface)
Grey (Inside)
Others :

Form Soil Test : Silty CLAY trace sand

Table 2. 3-2 (92) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : September 4-11, 1989

12th Stage (Sampled on 6th Aug. at St. A, C, E, G and
Sampled on 10th Aug. 1989 at St. B, D, F, H.)

Sample No. : D
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	0.05
Sand (74 - 2000 um)	%	:	8.45
Silt (5 - 74 um)	%	:	33.50
Clay (less than 5 um)	%	:	58.00
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50	mm	: 0.0025
Diameter of 25 %	D25	mm	: -
Diameter of 75 %	D75	mm	: 0.017
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity	Gs	:	2.66

Natural Water Content	Wn	%	: 111.05

Ignition Loss	Li	%	: 11.53

Shear Strength (In-situ Vane Test)	kgf/cm ²	:	0.051

Notes

From In-situ Observation

Soil Name : Mud (Surface)
Clay, with Fine Sand Grain (Inside)
Soil Color : Brown (Surface)
Grey (Inside)
Others :

Form Soil Test : Silty CLAY trace sand

Table 2. 3-2 (93) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : September 4-11, 1989

12th Stage (Sampled on 6th Aug. at St. A, C, E, G and
Sampled on 10th Aug. 1989 at St. B, D, F, H.)

Sample No. : E
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 μ m)	%	:	-
Sand (74 - 2000 μ m)	%	:	2.41
Silt (5 - 74 μ m)	%	:	36.59
Clay (less than 5 μ m)	%	:	61.00
Diameter of Maximum Grain	mm	:	2.00
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50 mm	:	0.0031
Diameter of 25 %	D25 mm	:	-
Diameter of 75 %	D75 mm	:	0.011
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.55

Natural Water Content Wn % : 206.52

Ignition Loss Li % : 14.79

Shear Strength (In-situ Vane Test) kgf/cm² : 0.016

Notes

From In-situ Observation

Soil Name : Muddy Sand (Surface)
Clay (Inside)
Soil Color : Brown (Surface)
Dark Grey (Inside)
Others :

Form Soil Test : SILT and CLAY trace sand

Table 2. 3-2 (91) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : September 4-11, 1989

12th Stage (Sampled on 6th Aug. at St. A, C, E, G and
Sampled on 10th Aug. 1989 at St. B, D, F, H.)

Sample No. : F
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um) %	:	0.18
Sand (74 - 2000 um) %	:	84.58
Silt (5 - 74 um) %	:	15.24
Clay (less than 5 um) %	:	-
Diameter of Maximum Grain mm	:	4.76
Coefficient of Uniformity Uc	:	-
Coefficient of Curving Rate Uc'	:	-
Diameter of 50 % D50 mm	:	0.338
Diameter of 25 % D25 mm	:	0.141
Diameter of 75 % D75 mm	:	0.42
Sorting So	:	0.58
Skewness Sk	:	0.52

Specific Gravity Gs : 2.74

Natural Water Content Wn % : 45.74

Ignition Loss Li % : 2.34

Shear Strength (In-situ Vane Test) kgf/cm² : 0.015

Notes

From In-situ Observation

Soil Name : Medium Sand and Fine Sand (Surface)
Clay (Inside)

Soil Color : Brown (Surface)
Grey (Inside)

Others :

Form Soil Test : SAND some silt

Table 2.3-2 (95) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : September 4-11, 1989

12th Stage (Sampled on 6th Aug. at St. A, C, E, G and
Sampled on 10th Aug. 1989 at St. B, D, F, H.)

Sample No. : G
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	0.12
Sand (74 - 2000 um)	%	:	85.10
Silt (5 - 74 um)	%	:	14.78
Clay (less than 5 um)	%	:	-
Diameter of Maximum Grain	mm	:	4.76
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50 mm	:	0.295
Diameter of 25 %	D25 mm	:	0.13
Diameter of 75 %	D75 mm	:	0.41
Sorting	So	:	0.56
Skewness	Sk	:	0.61

Specific Gravity Gs : 2.73

Natural Water Content Wn % : 46.13

Ignition Loss Li % : 2.82

Shear Strength (In-situ Vane Test) kgf/cm² : 0.024

Notes

From In-situ Observation

Soil Name : Medium Sand
Soil Color : Brownish Grey
Others :

Form Soil Test : Fine SAND, some silt

Table 2. 3-2 (06) RESULTS OF SOIL TEST

Name of Survey : The Study on Maintenance Dredging in
The Access Channel of Banjarmasin Port.

Survey Item : Bottom Material (Saline Wedge Station)
of Monthly Survey

Testing Date : September 4-11, 1989

12th Stage (Sampled on 6th Aug. at St. A, C, E, G and
Sampled on 10th Aug. 1989 at St. B, D, F, H.)

Sample No. : H
Depth :

Characteristics of Grain Distribution

Gravel (more than 2000 um)	%	:	-
Sand (74 - 2000 um)	%	:	7.22
Silt (5 - 74 um)	%	:	39.78
Clay (less than 5 um)	%	:	53.00
Diameter of Maximum Grain	mm	:	2.00
Coefficient of Uniformity	Uc	:	-
Coefficient of Curving Rate	Uc'	:	-
Diameter of 50 %	D50 mm	:	0.0041
Diameter of 25 %	D25 mm	:	-
Diameter of 75 %	D75 mm	:	0.021
Sorting	So	:	-
Skewness	Sk	:	-

Specific Gravity Gs : 2.66

Natural Water Content Wn % : 111.37

Ignition Loss Li % : 11.64

Shear Strength (In-situ Vane Test) kgf/cm² : 0.027

Notes

From In-situ Observation

Soil Name : Silt
Soil Color : Grey
Others :

Form Soil Test : SILT and CLAY trace sand

Table 2. 3-3 (1)~(60) Grain Size Test with Size Cumulative Curve
(Sampled During Discharge Survey)

Name of Survey

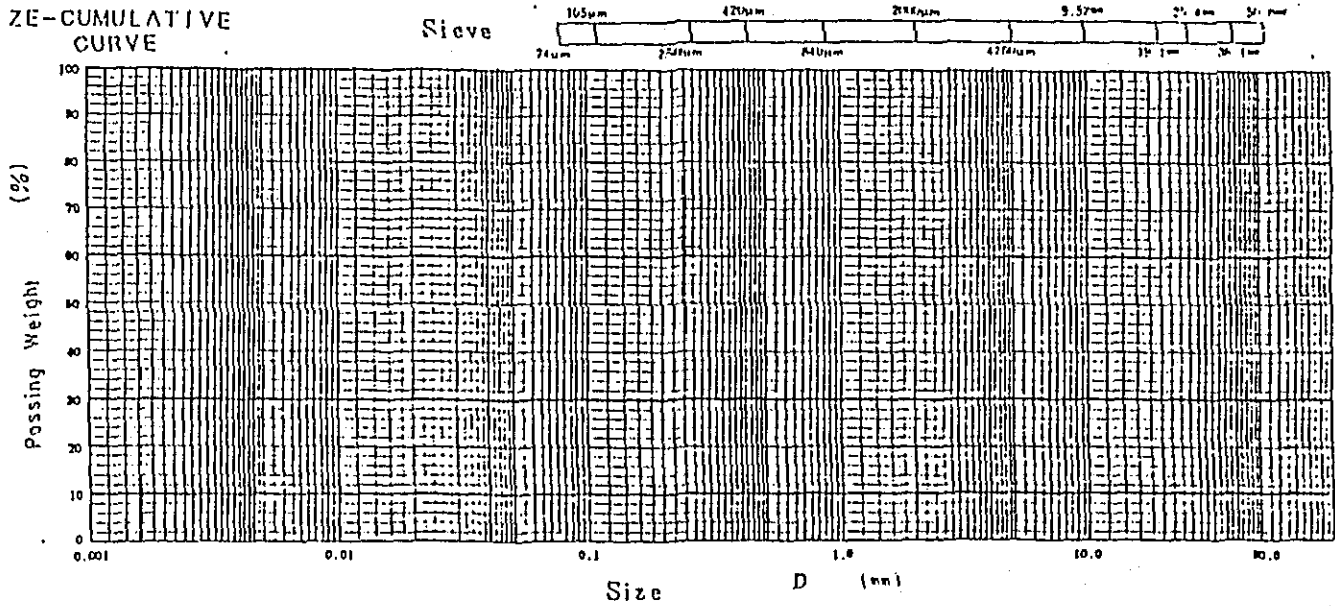
Date y m da;

Tested by

Sample No Depth	No. (m ~ m)		No. (m ~ m)		
	Size mm	Finer %	Size mm	Finer %	
Sieve	50.8		50.8		
	38.1		38.1		
	25.4		25.4		
	19.1		19.1		
	9.52		9.52		
	4.76		4.76		
	2.00		2.00		
	0.84		0.84		
	0.42		0.42		
	0.25		0.25		
	0.105		0.105		
	0.074		0.074		
	Hydrometer				

Sample No. Depth	No. (m ~ m)	No. (m ~ m)
Grain > 4.76 mm	%	
4.76 ~ 2 mm	%	
2 ~ 0.42 mm	%	
0.42 ~ 0.074 mm	%	
0.074 ~ 0.005 mm	%	
< 0.005 mm	%	
< 0.001 mm	%	
Passing 2000 μ	%	
Passing 420 μ	%	
Passing 74 μ	%	
Maximum grain	mm	
D 60	mm	
D 30	mm	
D 10	mm	
Coef. Uniformity U _c		
Coef. Curving Rate U _r		
Specific Gravity G _s		
Dispersion Calalyzer		

SIZE-CUMULATIVE CURVE



Colloid Clay Silt fine Sand Coarse Sand fine Gravel Gravel Cobble

Remark

Table 2.3-3 (1)

JIS A 1204

土の粒度試験結果

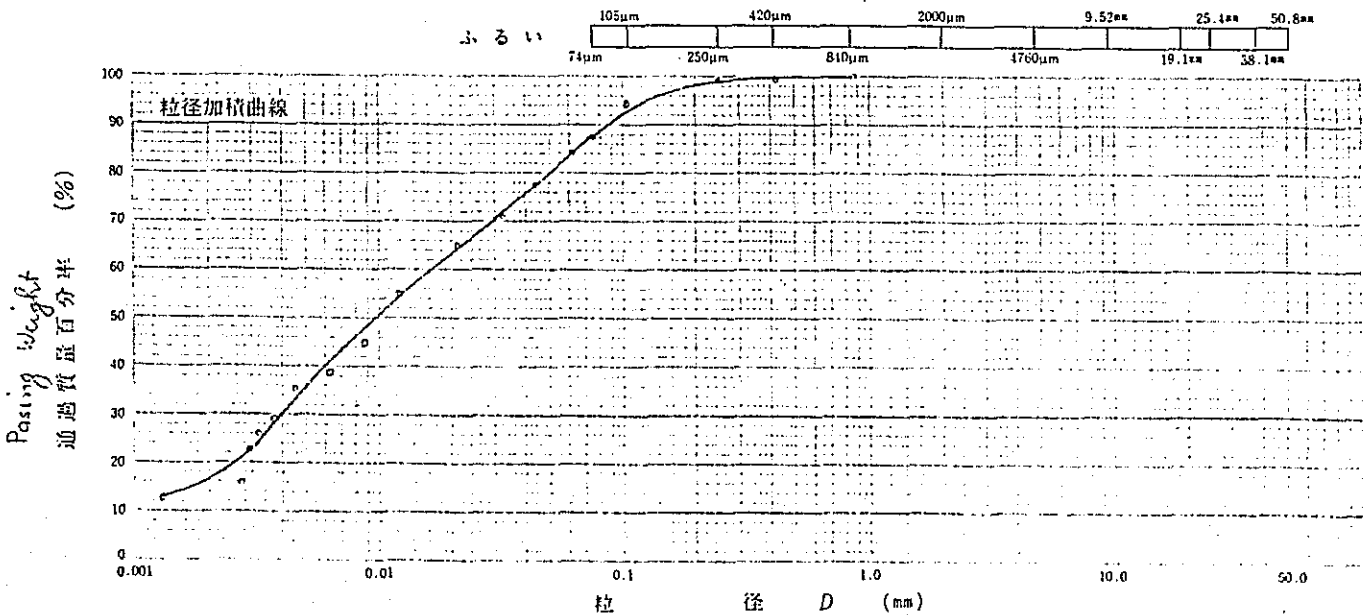
報告用紙

調査名・調査地点 : _____ 試験年月日 08 年 Oct 月 1988 日

1st Stage (Sampled on 23rd Sep. at St. F-1, F-2, F-3 and 試験者 _____
Sampled on 24th Sep. 1988 at St. F-4 and F-5.)

試験番号 深さ	No. DS St F1		No.	
	(m ~ m)		(m ~ m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふるい分け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00		2.00	
	0.84	100	0.84	
	0.42	99.8	0.42	
	0.25	99.4	0.25	
比重浮上	0.105	94.8	0.105	
	0.074	87.8	0.074	
	0.0614	84.36		
	0.0442	77.87		
	0.0318	71.39		
	0.0209	64.90		
	0.0121	55.16		
	0.0088	45.42		
	0.0063	38.94		
	0.0032	25.96		
	0.0136	12.98		

試験番号 深さ	No.		No.	
	(m ~ m)		(m ~ m)	
4.76mm以上の粒子	%			
細礫分 (4.76 ~ 2mm)	%			
粗砂分 (2 ~ 0.42mm)	%	0.50		
細砂分 (0.42 ~ 0.074mm)	%	7.30		
シルト分 (0.074 ~ 0.005mm)	%	56.60		
粘土分 ^{注)} (0.005mm以下)	%	35.60		
コロイド分(0.001mm以下)	%			
2000μmふるい通過質量百分率 %				
420μmふるい通過質量百分率 %		99.8		
74μmふるい通過質量百分率 %		87.8		
最大粒径 mm				
60 % 粒径 mm		0.0166		
30 % 粒径 mm		0.0040		
10 % 粒径 mm				
均等係数 U _c				
曲率係数 U _s				
土粒子の比重 G _s		2.50		
使用した分散剤				



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	岩石質材料
0.001	0.005	0.075	0.42	2.0	4.76		75

備考 clayey SILT-brace sand

D₇₅ = 0.0378
D₅₀ = 0.0092
D₂₅ = 0.0032

注) コロイド分を含む

Table 2. 3-3 (2)

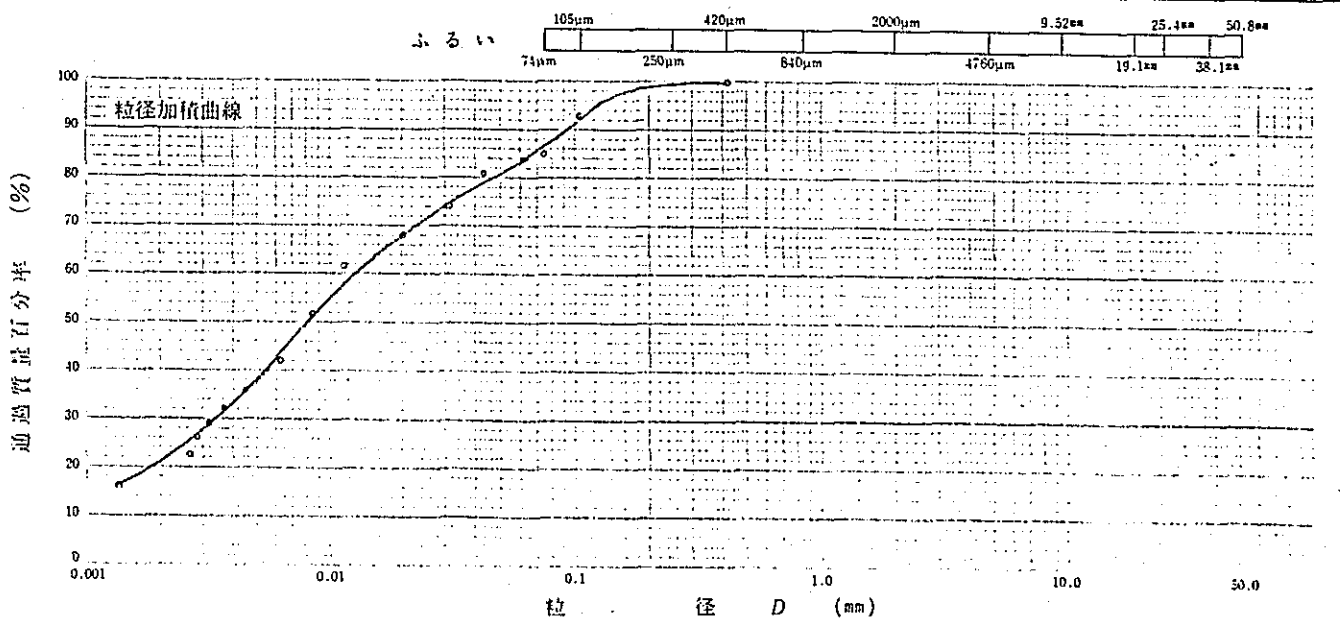
JIS A 1204 土の粒度試験結果 報告用紙

調査名・調査地点 試験年月日 02 年 Oct 月 1988 日

1st Stage (Sampled on 23rd Sep. at St. F-1, F-2, F-3 and 試験者
 Sampled on 24th Sep. 1988 at St. F-4 and F-5.)

試料番号 深さ	No. DS st F2		No.	
	(m ~ m)		(m ~ m)	
ふるい分け	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00		2.00	
	0.84		0.84	
	0.42	100	0.42	
	0.25	99.4	0.25	
0.105	93.6	0.105		
0.074	85.0	0.074		
比重浮上	0.4372	80.93		
	0.3141	74.45		
	0.202	67.98		
	0.119	61.50		
	0.086	51.79		
	0.062	42.08		
	0.032	29.13		
	0.026	22.66		
0.013	16.19			

試料番号 深さ	No. (m ~ m)	No. (m ~ m)
4.76mm以上の粒子 %		
細礫分 (4.76 ~ 2mm) %		
粗砂分 (2 ~ 0.42mm) %		
細砂分 (0.42 ~ 0.074mm) %	13.50	
シルト分 (0.074 ~ 0.005mm) %	48.30	
粘土分 ^注 (0.005mm以下) %	38.20	
コロイド分(0.001mm以下) %		
2000μmふるい通過質量百分率 %		
420μmふるい通過質量百分率 %	100	
74μmふるい通過質量百分率 %	85	
最大粒径 mm		
60 % 粒径 mm	00130	
30 % 粒径 mm	000340	
10 % 粒径 mm		
均等係数 U_c		
曲率係数 U_c'		
土粒子の比重 G_s	2.60	
使用した分散剤		



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	岩石質材料
0.001	0.005	0.074	0.42	2.0	4.76		75

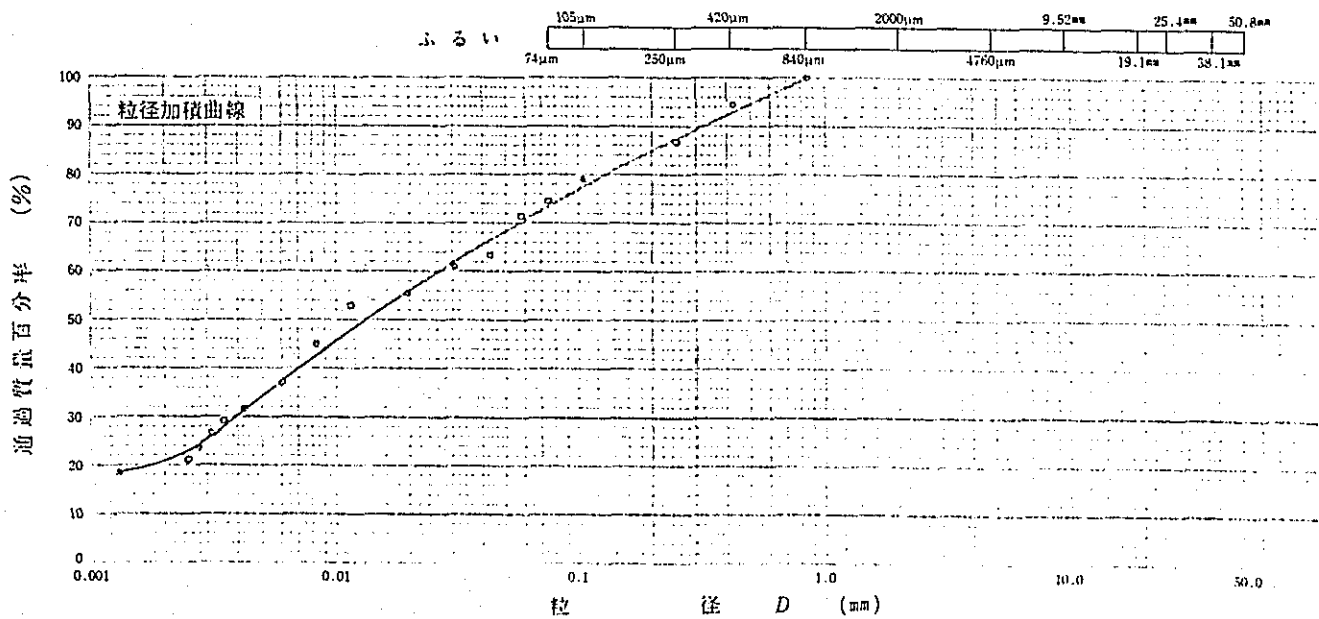
備考 SILT and CLAY with some sand. $D_{75} = 0.0322$
 $D_{50} = 0.0084$
 $D_{25} = 0.0025$
 注) コロイド分を含む

Table 2.3-3 (3)

調査名・調査地点 試験年月日 08 年 Oct 月 1988 日
 1st Stage (Sampled on 23rd Sep. at St. F-1, F-2, F-3 and 試験者
 Sampled on 24th Sep. 1988 at St. F-4 and F-5.)

試験番号 深さ	No. DS St F3		No.	
	(m ~ m)		(m ~ m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふるい分け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00		2.00	
	0.84	100	0.84	
	0.42	94.33	0.42	
	0.25	87.16	0.25	
比重浮上	0.105	79.33	0.105	
	0.074	74.83	0.074	
	0.0430	63.55		
	0.0307	60.91		
	0.0197	55.61		
	0.0115	52.96		
	0.0083	45.02		
	0.0060	37.07		
	0.0043	31.78		
	0.0031	26.48		
	0.0013	18.54		

試験番号 深さ	No.	No.
	(m ~ m)	(m ~ m)
4.76mm以上の粒子	%	
細礫分 (4.76 ~ 2mm)	%	
粗砂分 (2 ~ 0.42mm)	7.30	
細砂分 (0.42 ~ 0.074mm)	19.20	
シルト分 (0.074 ~ 0.005mm)	39.30	
粘土分 ^{注)} (0.005mm以下)	34.20	
コロイド分(0.001mm以下)		
2000μmふるい通過質量百分率 %		
420μmふるい通過質量百分率 %	94.3	
74μmふるい通過質量百分率 %	74.83	
最大粒径 mm		
60% 粒径 mm	0.0265	
30% 粒径 mm	0.00305	
10% 粒径 mm		
均等係数 U _c		
曲率係数 U _s		
土粒子の比重 G _s	2.68	
使用した分散剤		



コロイド	粘 土	シ ル ト	細 砂	粗 砂	細 礫	礫	岩石質材料
0.001	0.005	0.074	0.42	2.0	4.76	75	

備考 sandy clayey SILT

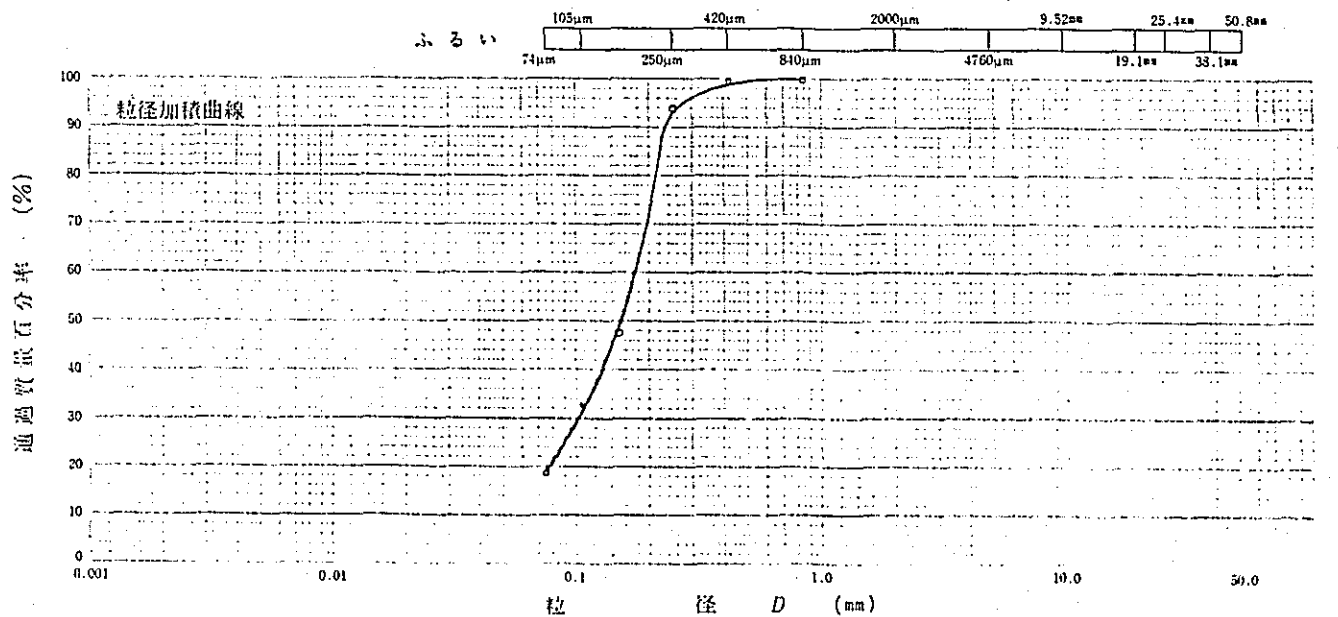
D₇₅ = 0.0861
 D₅₀ = 0.0120
 D₂₅ = 0.0029
 注) コロイド分を含む

Table 2. 3-3 (4)

調査名・調査地点 試験年月日 02 年 Oct 月 1988 日

1st Stage (Sampled on 23rd Sep. at St. F-1, F-2, F-3 and 試験者
 Sampled on 24th Sep. 1988 at St. F-4 and F-5.)

試料番号 深さ	No. 05 St F4 (m ~ m)		No. (m ~ m)		試料番号 深さ	No. (m ~ m)		No. (m ~ m)						
	粒 径 mm	質量百分率 %	粒 径 mm	質量百分率 %		4.76mm以上の粒子 %	細礫分 (4.76 ~ 2mm) %	粗砂分 (2 ~ 0.42mm) %	細砂分 (0.42 ~ 0.074mm) %	シルト分 (0.074 ~ 0.005mm) %	粘土分 ^{注)} (0.005mm以下) %	コロイド分(0.001mm以下) %	2000μmふるい通過質量百分率 %	420μmふるい通過質量百分率 %
ふ る い 分 け	50.8		50.8		4.76mm以上の粒子 %									
	38.1		38.1		細礫分 (4.76 ~ 2mm) %									
	25.4		25.4		粗砂分 (2 ~ 0.42mm) %	1.40								
	19.1		19.1		細砂分 (0.42 ~ 0.074mm) %	98.6								
	9.52		9.52		シルト分 (0.074 ~ 0.005mm) %									
	4.76		4.76		粘土分 ^{注)} (0.005mm以下) %									
	2.00		2.00		コロイド分(0.001mm以下) %									
	0.84	100	0.84		2000μmふるい通過質量百分率 %									
	0.42	99.6	0.42		420μmふるい通過質量百分率 %									
	0.25	94.0	0.25		74μmふるい通過質量百分率 %									
0.105	33.6	0.105		最大粒 径 mm										
0.074	18.6	0.074		60 % 粒 径 mm	0.0175									
				30 % 粒 径 mm	0.0102									
				10 % 粒 径 mm										
				均 等 係 数 U_c										
				曲 率 係 数 U_c'										
				土 粒 子 の 比 重 G_s	2.72									
				使用した分散剤										



コロイド	粘 土	シ ル ト	細 砂	粗 砂	細 礫	礫	砕石材料
0.001	0.005	0.075	0.42	2.0	4.76		75

備考 fine SAND D₇₅ = 0.2020
 D₅₀ = 0.1520
 D₂₅ = 0.093
 注) コロイド分を含む

Table 2. 3-3 (5)

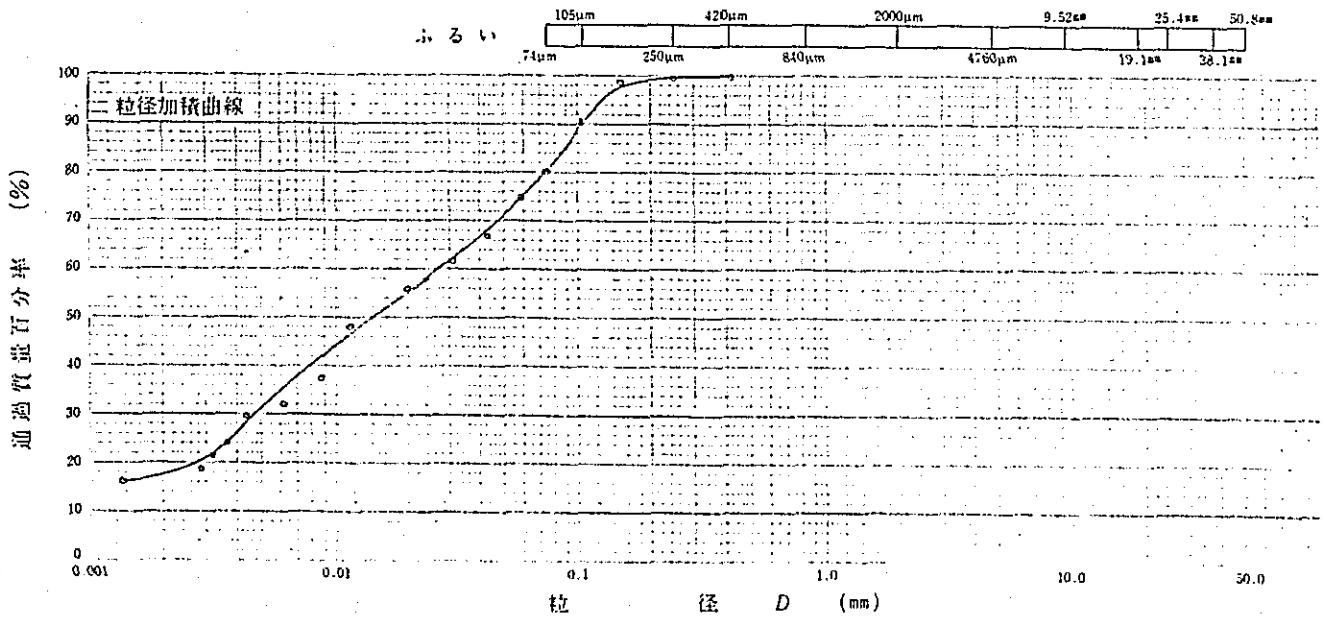
JIS A 1204	土の粒度試験結果	報告用紙
------------	----------	------

調査名・調査地点 試験年月日 08 年 08 月 1988 日

1st Stage (Sampled on 23rd Sep. at St. F-1, F-2, F-3 and 試験者
 Sampled on 24th Sep. 1988 at St. F-4 and F-5.)

試料番号 深さ	No. DS St F5		No.	
	(m ~ m)		(m ~ m)	
	粒 径 mm	質量百分率 %	粒 径 mm	質量百分率 %
ふるい分け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00		2.00	
	0.84		0.84	
	0.42	100	0.42	
	0.25	99.67	0.25	
比重浮ひょう	0.105	90.44	0.105	
	0.074	80.17	0.074	
	0.037	75.17		
	0.035	67.12		
	0.0312	61.75		
	0.0201	56.38		
	0.0119	48.32		
	0.0087	37.59		
	0.0062	32.22		
	0.0032	21.48		
0.0014	16.11			

試料番号 深さ	No.		No.	
	(m ~ m)		(m ~ m)	
4.76mm以上の粒子 %				
細礫分 (4.76 ~ 2mm) %				
粗砂分 (2 ~ 0.42mm) %				
細砂分 (0.42 ~ 0.074mm) %				
シルト分 (0.074 ~ 0.005mm) %				
粘土分 (0.005mm以下) %				
コロイド分 (0.001mm以下) %				
2000μmふるい通過質量百分率 %				
420μmふるい通過質量百分率 %				
74μmふるい通過質量百分率 %				
最大粒径 mm				
60 % 粒径 mm				
30 % 粒径 mm				
10 % 粒径 mm				
均等係数 U _c				
曲率係数 U _{c'}				
土粒子の比重 G _s				
使用した分散剤				



コロイド	粘 土	シ ル ト	細 砂	粗 砂	細 礫	礫	岩石材料
0.001	0.005	0.074	0.42	2.0	4.76		75

備考 clayey SILT with some sand

D₇₅ = 0.0610
 D₅₀ = 0.0142
 D₂₅ = 0.0038
 注) コロイド分を含む

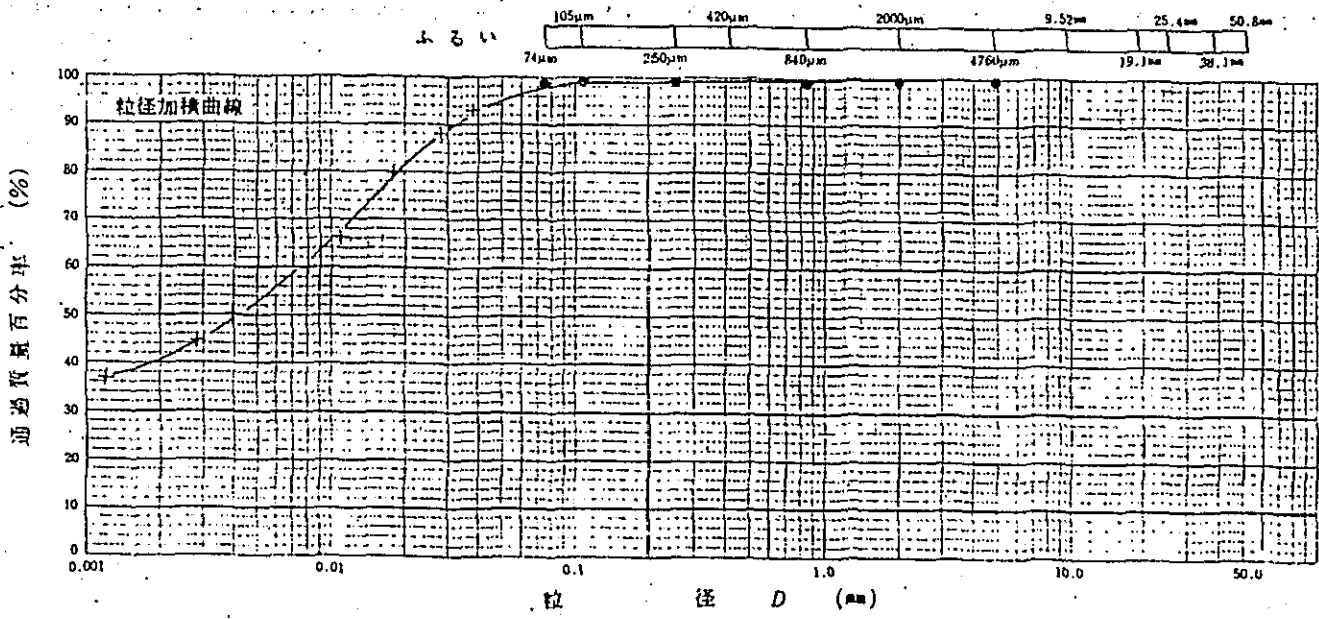
Table 2. 3-3 (6)

JIS A 1204 土の粒度試験結果 報告用紙

調査名・調査地点 BOTTOM MATERIAL (Discharge Stat.) 試験年月日 1988年12月15日
 STAT. F-1 試験者 ANDY AFANDY
 2nd Stage (Sampled on 19th Nov. 1988)

試料番号 深さ	No. (m - m)		No. (m - m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふ ろ い 分 け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76	100	4.76	
	2.00	99.90	2.00	
	0.84	99.86	0.84	
	0.42	99.82	0.42	
	0.25	99.78	0.25	
比 重 浮 い う	0.105	99.54	0.105	
	0.074	99.06	0.074	
	0.0378	92.7		
	0.0275	86.5		
	0.0176	80.4		
	0.0108	65.9		
	0.0078	59.8		
	0.0056	55.6		
0.0040	49.5			
0.0029	45.3			
0.0012	37.1			

試料番号 深さ	No. (m - m)	No. (m - m)
4.76mm以上の粒子 %		
細礫分 (4.76 - 2mm) %		
粗砂分 (2 - 0.42mm) %	0.10	
細砂分 (0.42 - 0.074mm) %	2.82	
シルト分 (0.074 - 0.005mm) %	44.58	
粘土分 (0.005mm以下) %	52.50	
コロイド分 (0.001mm以下) %	36.5	
2000μmふるい通過質量百分率 %	99.90	
420μmふるい通過質量百分率 %	99.82	
74μmふるい通過質量百分率 %	99.06	
最大粒径 mm		
60 % 粒径 mm	0.0075	
30 % 粒径 mm		
10 % 粒径 mm		
均等係数 U_c		
曲率係数 U_c'		
土粒子の比重 G_s	2.52	
使用した分散剤		



コロイド	粘 土	シ ル ト	細 砂	粗 砂	細 礫	礫	岩石質材料
0.001	0.005	0.074	0.42	2.0	4.76		75

備考 SILT and CLAY trace sand D 75 = 0.015
 D 50 = 0.042
 D 25 = -

注) コロイド分を含む

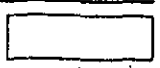
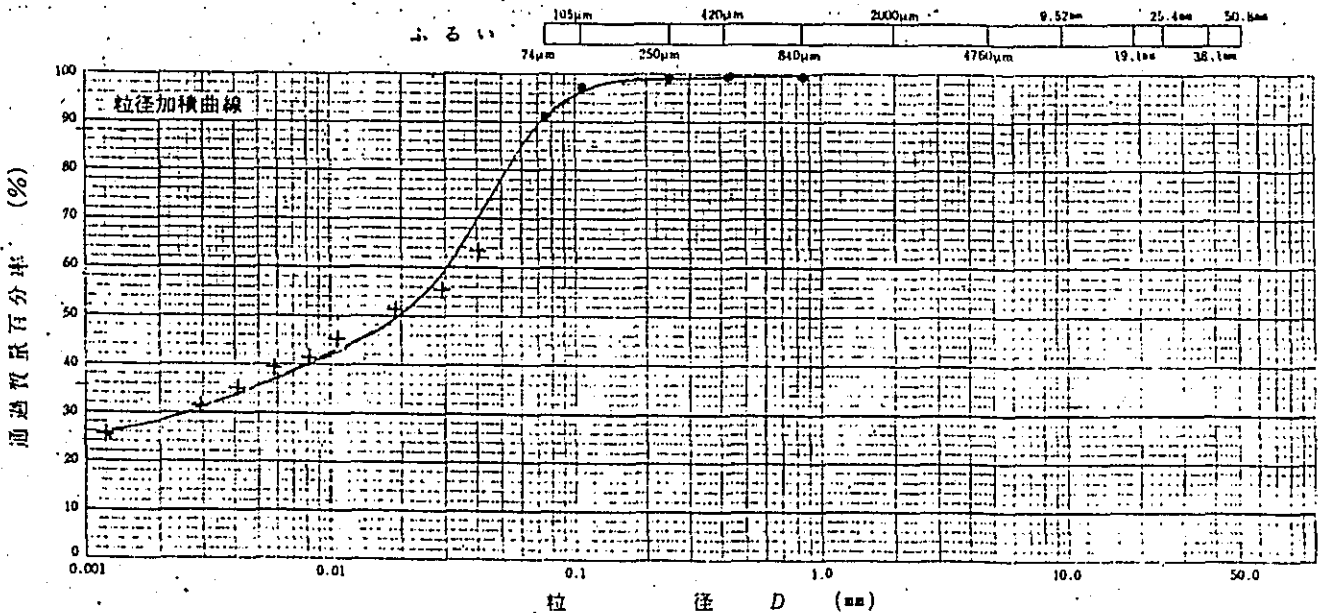


Table 2.3-3 (7)

調査名・調査地点 BOTTOM MATERIAL (Discharge Stat.) 試験年月日 1988年12月15日
 STAT. F-2 試験者 ANDY AFANDY
 2nd Stage (Sampled on 19th Nov.1988)

試料番号 深さ	No. (m ~ m)		No. (m ~ m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
よ る い 分 け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.98	0.84	
	0.42	99.94	0.42	
	0.25	99.88	0.25	
比 重 浮 び よ う	0.105	97.42	0.105	
	0.074	90.58	0.074	
	0.0409	62.8		
	0.0299	55.5		
	0.0191	51.8		
	0.0113	44.3		
	0.0081	40.6		
	0.0057	38.8		
	0.0041	35.1		
	0.0029	31.4		
	0.0012	25.9		

試料番号 深さ	No. (m ~ m)		No. (m ~ m)	
	4.76mm以上の粒子 %			
細礫分 (4.76 ~ 2mm) %				
粗砂分 (2 ~ 0.42mm) %	0.06			
細砂分 (0.42 ~ 0.074mm) %	9.36			
シルト分 (0.074 ~ 0.005mm) %	54.58			
粘土分 ^注 (0.005mm以下) %	36			
コロイド分(0.001mm以下) %	26			
2000μmふるい通過質量百分率 %	100			
420μmふるい通過質量百分率 %	99.94			
74μmふるい通過質量百分率 %	90.58			
最大粒径 mm				
60 % 粒径 mm	0.03			
30 % 粒径 mm	0.0026			
10 % 粒径 mm				
均等係数 U_c				
曲率係数 U_i				
土粒子の比重 G_s	2.59			
使用した分散剤				



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	岩石質材料
0.001	0.005	0.074	0.42	2.0	4.76		75

備考 Clayey SILT with some sand D 75 = 0.047
 D 50 = 0.020
 D 25 = 0.002

注) コロイド分を含む

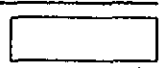
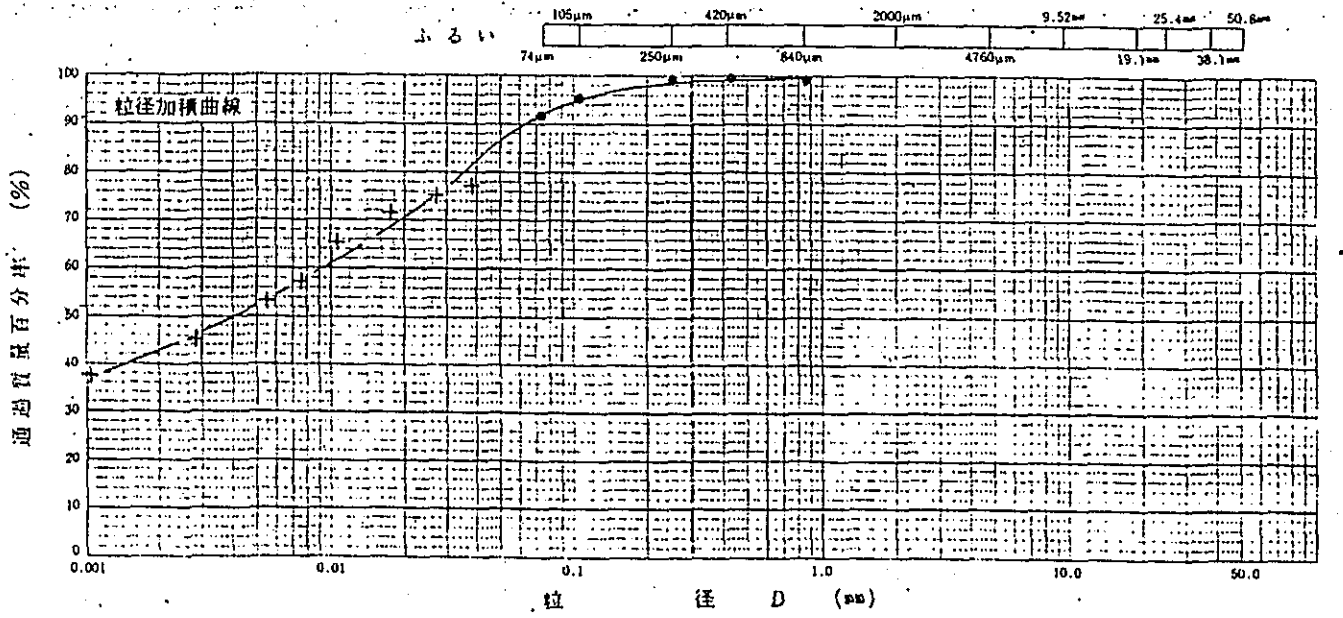


Table 2.3-3 (8)

JIS A 1204 土の粒度試験結果 報告用紙

調査名・調査地点 BOTTOM MATERIAL (Discharge Stat.) 試験年月日 1988年12月15日
 STAT. F-3 試験者 NNDY.AFANDY
 2nd Stage (Sampled on 19th Nov.1988)

試料番号 深さ	No. (m ~ m)		No. (m ~ m)		試料番号 深さ	No. (m ~ m)		No. (m ~ m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %		項目	値	項目	値
ふ る い 分 け	50.8		50.8		4.76mm以上の粒子 %				
	38.1		38.1		細礫分 (4.76 ~ 2mm)%				
	25.4		25.4		粗砂分 (2 ~ 0.42mm)%	0.04			
	19.1		19.1		細砂分 (0.42 ~ 0.074mm)%	8.90			
	9.52		9.52		シルト分 (0.074 ~ 0.005mm)%	38.5			
	4.76		4.76		粘土分 (0.005mm以下)%	52.56			
	2.00	100	2.00		コロイド分 (0.001mm以下)%	38			
	0.84	99.98	0.84		2000μmふるい通過質量百分率 %	100			
	0.42	99.96	0.42		420μmふるい通過質量百分率 %	99.96			
	0.25	99.92	0.25		74μmふるい通過質量百分率 %	91.06			
比 重 浮 び よ う	0.105	95.94	0.105		最大粒径 mm				
	0.074	91.06	0.074		60% 粒径 mm	0.0095			
	0.0385	76.2			30% 粒径 mm				
	0.0275	74.3			10% 粒径 mm				
	0.0176	70.6			均等係数 U _c				
	0.0104	65.1			曲率係数 U _s				
	0.0076	57.6			土粒子の比重 G _s	2.58			
	0.0055	52.0			使用した分散剤				
	0.0039	48.3							
0.0028	44.6								
0.0012	40.9								



コロイド	粘 土	シ ル ト	細 砂	粗 砂	細 礫	礫	岩石質材料
0.001	0.005	0.074	0.42	2.0	4.76		75

備考 SILT and CLAY with some sand D 75 = 0.028
 D 50 = 0.004
 D 25 = -

Table 2. 3-3 (9)

JIS A 1204

土の粒度試験結果

報告用紙

調査名・調査地点 BOTTOM MATERIAL (Discharge Stat.)

試験年月日 1988年12月15日

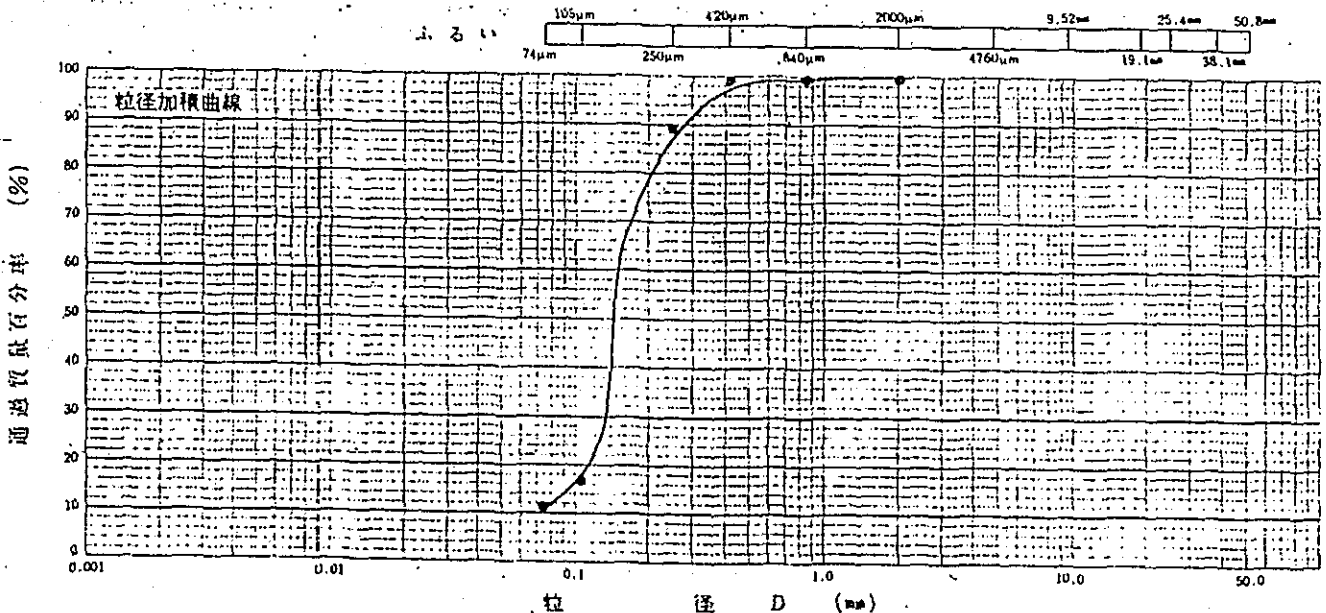
STAT. F-4

2nd Stage (Sampled on 19th Nov. 1988)

試験者 ANDY APANDY

試料番号 No.	No. (m-m)		No. (m-m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふ る い 分 け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.98	0.84	
	0.42	99.84	0.42	
	0.25	89.88	0.25	
比 重 浮 ひ よ う	0.105	17.58	0.105	
	0.074	11.52	0.074	

試料番号 No.	No. (m-m)		No. (m-m)	
深さ	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
	4.76mm以上の粒子 %			
	細礫分 (4.76-2mm) %			
	粗砂分 (2-0.42mm) %			
	3.0			
	細砂分 (0.42-0.074mm) %			
	85.5			
	シルト分 (0.074-0.005mm) %			
	11.5			
	粘土分 (0.005mm以下) %			
	コロイド分 (0.001mm以下) %			
	2000μmふるい通過質量百分率 %			
	100			
	420μmふるい通過質量百分率 %			
	99.84			
	75μmふるい通過質量百分率 %			
	11.54			
	最大粒径 mm			
	60% 粒径 mm			
	0.16			
	30% 粒径 mm			
	0.14			
	10% 粒径 mm			
	均等係数 U_c			
	曲率係数 U_s			
	土粒子の比重 G_s			
	2.64			
	使用した分散剤			



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	岩石質材料
0.001	0.005	0.074	0.42	2.0	4.76	75	

備考 Fine SAND with some silt

D 75 = 0.18
D 50 = 0.15
D 25 = 0.13

注) コロイド分を含む

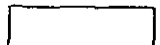


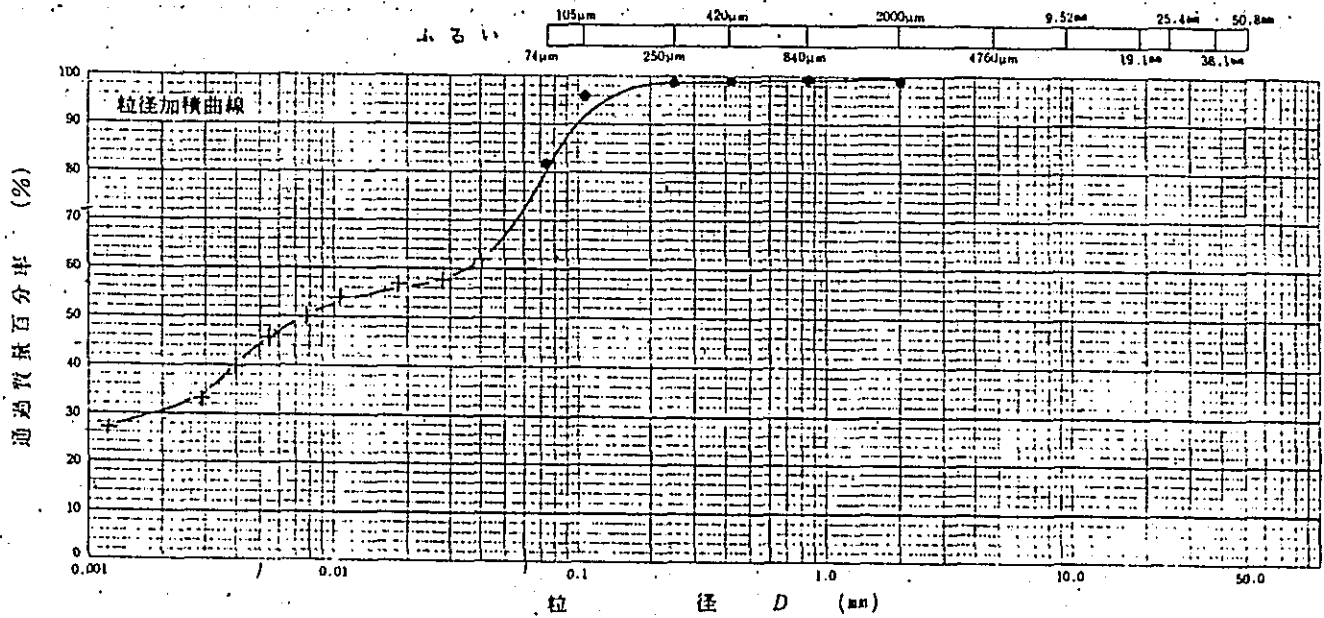
Table 2.3-3 (10)

JIS A 1204 土の粒度試験結果 報告用紙

調査名・調査地点 BOTTOM MATERIAL (Discharge Stat.) 試験年月日 1988年12月15日
 STAT. F-5 試験者 ANDY APANDY
 2nd Stage (Sampled on 19th Nov. 1988)

試料番号 深さ	No. (m - m)		No. (m - m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふるい分け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.98	0.84	
	0.42	99.96	0.42	
	0.25	99.80	0.25	
比重浮上	0.105	96.24	0.105	
	0.074	82.12	0.074	
	0.0399	62.0		
	0.0286	58.1		
	0.0183	56.9		
	0.0107	53.6		
	0.0077	50.3		
	0.0055	45.7		
0.0040	40.2			
0.0028	33.5			
0.0012	26.8			

試料番号 深さ	No. (m - m)		No. (m - m)	
4.76mm以上の粒子	%			
細礫分 (4.76 - 2mm)	%			
粗砂分 (2 - 0.42mm)	%	0.04		
細砂分 (0.42 - 0.074mm)	%	18.96		
シルト分 (0.074 - 0.005mm)	%	37.0		
粘土分 ^注 (0.005mm以下)	%	44		
コロイド分(0.001mm以下)	%	26.5		
2000μm以上の通過質量百分率	%	100		
420μm以上の通過質量百分率	%	99.96		
74μm以上の通過質量百分率	%	82.12		
最大粒径 mm				
60% 粒径 mm		0.034		
30% 粒径 mm		0.0018		
10% 粒径 mm				
均等係数 U _c				
曲率係数 U _s				
土粒子の比重 G _s		2.59		
使用した分散剤				



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	粗石質材料
0.001	0.005	0.074	0.42	2.0	4.76		75

備考 Silty CLAY with some sand
 D₇₅ = 0.065
 D₅₀ = 0.008
 D₂₅ = -

注) コロイド分を含む

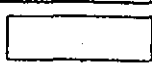
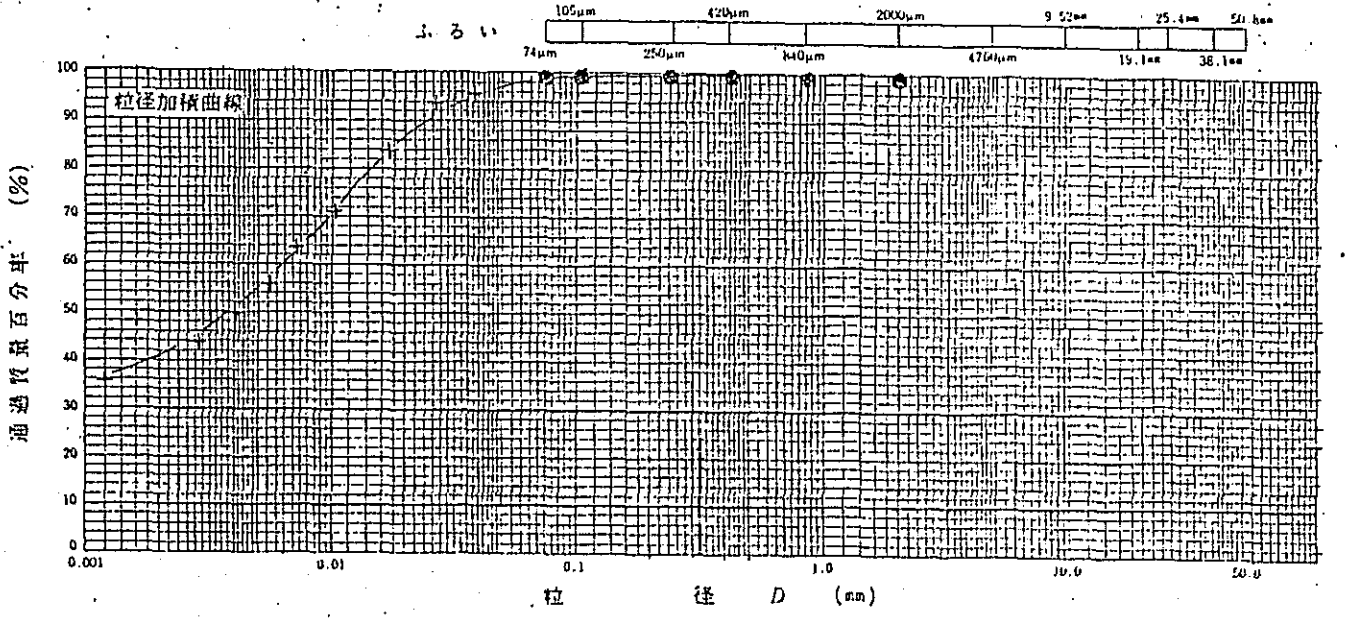


Table 2. 3-3 (II)

調査名・調査地点 BOTTOM MATERIAL (DISCHARGE STAT.) STAT. F-1 試験年月日 1989年1月13日
 3rd Stage (Sampled on 6th Dec.1988) 試験者 ANDI AFANDI

試料番号 深さ	No. (m - m)		No. (m - m)		試料番号 深さ	No. (m - m)		No. (m - m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %		4.76mm以上の粒子 %			
ふるい分け	50.8		50.8		細礫分 (4.76 ~ 2 mm) %				
	38.1		38.1		粗砂分 (2 ~ 0.42 mm) %				
	25.4		25.4		細砂分 (0.42 ~ 0.074 mm) %	0.02			
	19.1		19.1		シルト分 (0.074 ~ 0.005 mm) %	0.74			
	9.52		9.52		粘土分 (0.005 mm 以下) %	44.72			
	4.76		4.76		コロイド分 (0.001 mm 以下) %	54.52			
	2.00	100	2.00		2000μmふるい通過質量百分率 %	34.9			
	0.84	99.98	0.84		420μmふるい通過質量百分率 %	100			
	0.42	99.96	0.42		74μmふるい通過質量百分率 %	99.96			
	0.25	99.92	0.25			99.72			
比重浮いよう	0.105	99.64	0.105		最大粒径 mm				
	0.074	99.22	0.074		60 % 粒径 mm	0.0065			
	0.0371	94.9			30 % 粒径 mm				
	0.0270	92.3			10 % 粒径 mm				
	0.0176	82.6			均等係数 U_c				
	0.0107	70.2			曲率係数 U_s				
	0.0077	63.9			土粒子の比重 G_s				
	0.0056	55.7			使用した分散剤				



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	岩石質材料
0.001	0.005	0.074	0.42	2.0	4.76		75

備考 CLAY and SILT D 75 = 0.012
 D 50 = 0.004
 D 25 = --- 注) コロイド分を含む

Table 2. 3-3 (12)

JIS A 1204

土の粒度試験結果

報告用紙

調査名・調査地点 BOTTOM MATERIAL (DISCHARGE STAT.)
STAT. F-Z

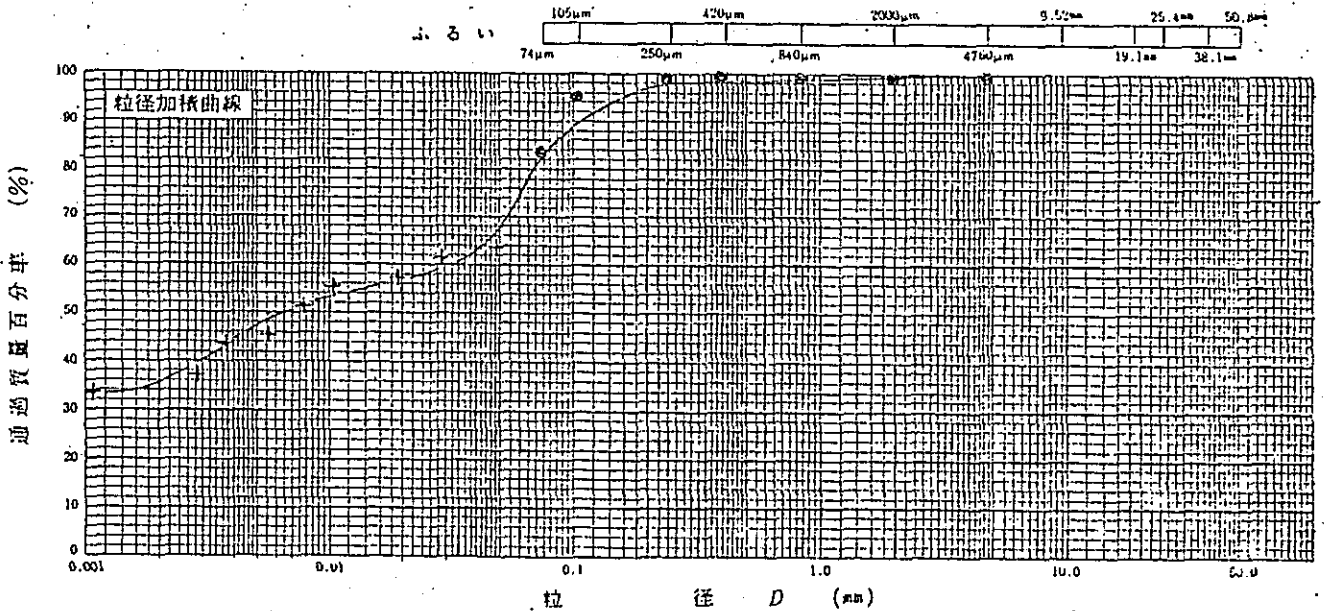
試験年月日 1989年 1 月 13 日

3rd Stage (Sampled on 6th Dec.1988)

試験者 ANDI AFANDI

試料番号 深さ	No. (m - m)		No. (m - m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふ る い 分 け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76	100	4.76	
	2.00	99.96	2.00	
	0.84	99.92	0.84	
	0.42	99.84	0.42	
	0.25	99.76	0.25	
比 重 浮 ひ よ う	0.105	94.66	0.105	
	0.074	82.76	0.074	
	0.0399	62.4		
	0.0285	60.8		
	0.0183	57.4		
	0.0107	54.0		
	0.0077	50.7		
	0.0055	45.6		
0.0039	42.2			
0.0028	37.1			
0.0011	32.1			

試料番号 深さ	No. (m - m)	No. (m - m)
4.76mm以上の粒子 %	100	
細礫分 (4.76 - 2 mm) %	0.04	
粗砂分 (2 - 0.42 mm) %	0.12	
細砂分 (0.42 - 0.074 mm) %	17.84	
シルト分 (0.074 - 0.005 mm) %	34.5	
粘土分 ^注 (0.005 mm以下) %	47.5	
コロイド分 (0.001 mm以下) %	32.9	
2000µmより通過質量百分率 %	99.96	
420µmより通過質量百分率 %	99.84	
74µmより通過質量百分率 %	82.76	
最大粒径 mm		
60 % 粒径 mm	0.038	
30 % 粒径 mm		
10 % 粒径 mm		
均等係数 U _c		
曲率係数 U _s		
土粒子の比重 G _s		
使用した分散剤		



コロイド	粘 土	シ ル ト	細 砂	粗 砂	細 礫	礫	岩石質 材料
0.001	0.005	0.074	0.42	2.0	4.76		75

備考 Silty CLAY with some sand

D 75 = 0.062
D 50 = 0.0065
D 25 = —

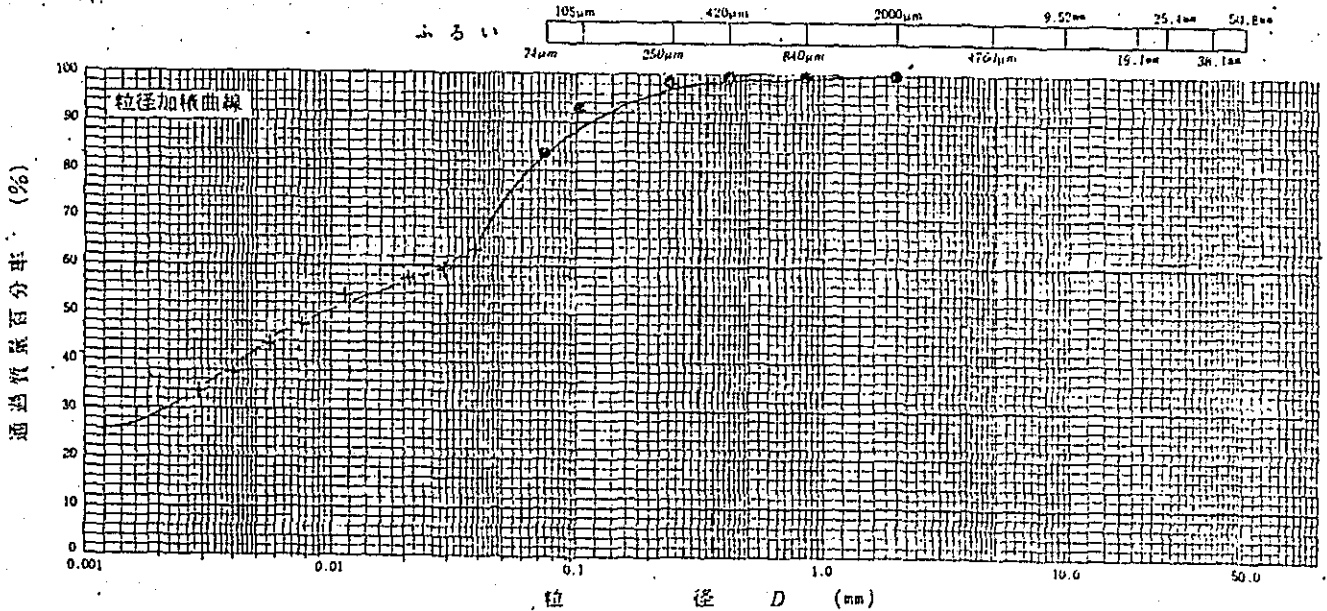
注) コロイド分を含む

Table 2. 3-3 (13)

調査名・調査地点 BOTTOM MATERIAL (DISCHARGE SATAT.) 試験年月日 1989年1月13日
 STAT. F-3 試験者 ANDY AFANDI
 3rd Stage (Sampled on 6th Dec.1988)

試料番号 深さ	No. (m - m)		No. (m - m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふる る い 分 け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.72	0.84	
	0.42	98.88	0.42	
	0.25	98.04	0.25	
比 重 浮 ひ う	0.105	92.20	0.105	
	0.074	83.24	0.074	
	0.0399	62.8		
	0.0286	59.5		
	0.0183	57.7		
	0.0108	52.6		
	0.0078	47.6		
	0.0056	42.5		
0.0040	37.3			
0.0029	32.2			
0.0012	25.5			

試料番号 深さ	No. (m - m)	No. (m - m)
4.76mm以上の粒子 %		
細砂分 (4.76 - 2 mm) %		
粗砂分 (2 - 0.42 mm) %	1.12	
細砂分 (0.42 - 0.074 mm) %	14.88	
シルト分 (0.074 - 0.005 mm) %	42	
粘土分 (0.005 mm以下) %	42	
コロイド分 (0.001 mm以下) %	26	
2000μmふるい通過質量百分率 %	100	
420μmふるい通過質量百分率 %	99.88	
74μmふるい通過質量百分率 %	83.24	
最大粒径 mm		
60 % 粒径 mm	0.032	
30 % 粒径 mm	0.0022	
10 % 粒径 mm		
均等係数 U _c		
曲率係数 U _s		
土粒子の比重 G _s		
使用した分散剤		



コロイド	粘 土	シ ル ト	粗 砂	粗 砂	細 砂	細 砂	砂	砂	砂
0.001	0.005	0.074	0.42	2.0	4.76				75

備考 CLAY and SILT with some sand
 D 75 = 0.056
 D 50 = 0.0092
 D 25 = ---

注) コロイド分を含む

Table 2.3-3 (14)

JIS A 1204

土の粒度試験結果

報告用紙

調査名・調査地点 BOTTOM MATERIAL (DISCHARGE STAT.)
STAT. F-4

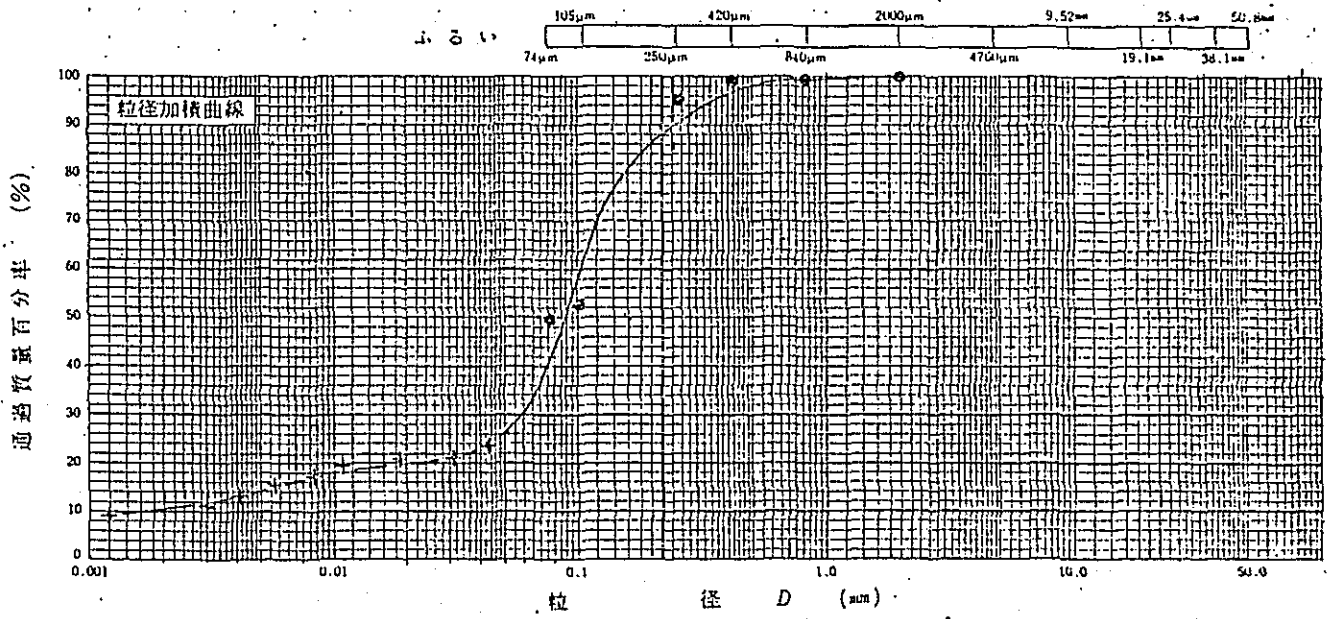
試験年月日 1989年1月13日

3rd Stage (Sampled on 6th Dec. 1988)

試験者 ANDI AFANDI

試料番号 深さ	No. (m ~ m)		No. (m ~ m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふ る い 分 け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.86	0.84	
	0.42	98.84	0.42	
	0.25	95.66	0.25	
比 重 浮 び い う	0.105	52.34	0.105	
	0.074	48.52	0.074	
	0.0436	22.6		
	0.0311	21.5		
	0.0197	20.6		
	0.0114	19.6		
	0.0082	17.6		
0.0058	15.7			
0.0042	13.7			
0.0030	11.7			
0.0012	08.3			

試料番号 深さ	No. (m ~ m)	No. (m ~ m)
4.76mm以上の粒子	%	
細礫分 (4.76 ~ 2 mm)	%	
粗砂分 (2 ~ 0.42 mm)	1.16	
細砂分 (0.42 ~ 0.074 mm)	57.84	
シルト分 (0.074 ~ 0.005mm)	27.0	
粘土分 (0.005mm以下)	14	
コロイド分 (0.001mm以下)	8.5	
2000μmふるい通過質量百分率 %	100	
420μmふるい通過質量百分率 %	98.84	
74μmふるい通過質量百分率 %	48.52	
最大粒径 mm		
60 % 粒径 mm	0.105	
30 % 粒径 mm	0.060	
10 % 粒径 mm	0.018	
均等係数 U_c	5.83	
曲率係数 U_c'	1.90	
土粒子の比重 G_s		
使用した分散剤		



コロイド	粘 土	シ ル ト	細 砂	粗 砂	細 礫	礫	含有質材料
0.001	0.005	0.074	0.42	2.0	4.76	75	

備考 Silty SAND with some clay

D 75 = 0.13
D 50 = 0.09
D 25 = 0.049

注) コロイド分を含む

Table 2. 3-3 (15)

JIS A 1204

土の粒度試験結果

報告用紙

調査名・調査地点 BOTTOM MATERIAL (DISCHARGE STAT.)
STAT. F-5

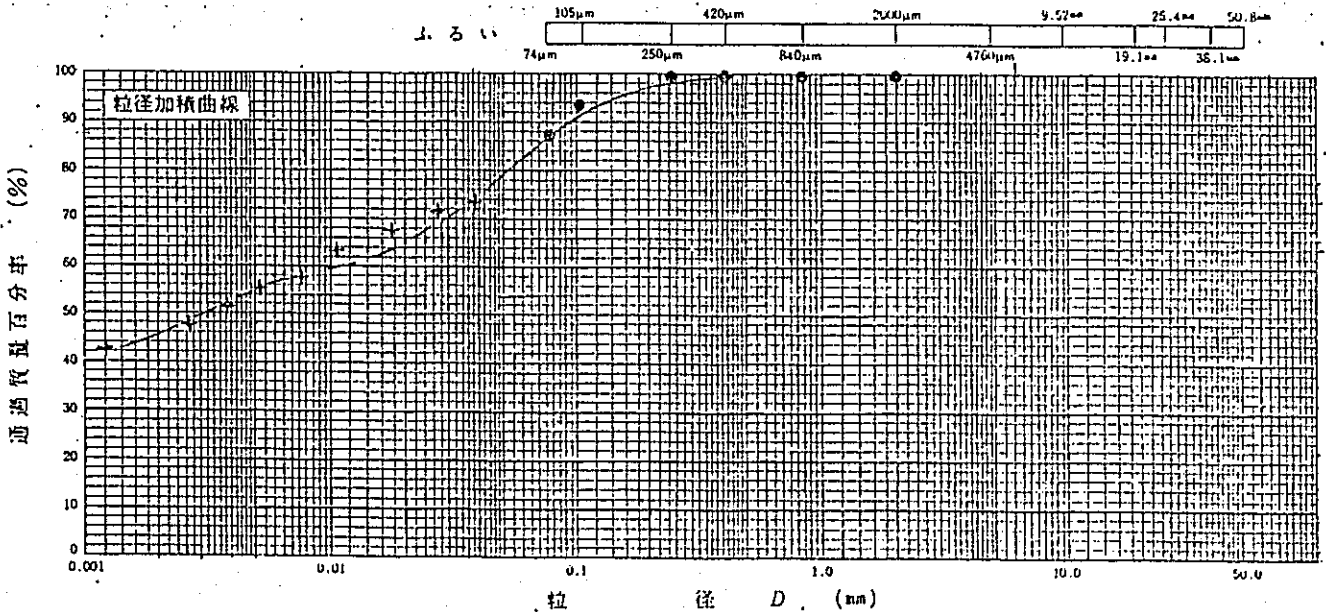
試験年月日 1989年1月13日

3rd Stage (Sampled on 6th Dec.1988)

試験者 ANDY AFANDY

試料番号 深さ	No. (m - m)		No. (m - m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふるい分け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.98	0.84	
	0.42	99.94	0.42	
	0.25	99.86	0.25	
比重浮上	0.105	93.52	0.105	
	0.074	86.90	0.074	
	0.0377	73.7		
	0.0270	70.3		
	0.0175	66.7		
	0.0103	61.5		
	0.0073	57.9		
	0.0053	54.4		
	0.0038	50.9		
0.0027	47.4			
0.0012	42.1			

試料番号 深さ	No. (m - m)	No. (m - m)
4.76mm以上の粒子	%	
細砂分 (4.76 - 2mm)	%	
粗砂分 (2 - 0.42mm)	0.06	
細砂分 (0.42 - 0.074mm)	13.04	
シルト分 (0.074 - 0.005mm)	32.40	
粘土分 (0.005mm以下)	54.5	
コロイド分 (0.001mm以下)	42	
2000μmふるい通過質量百分率 %	100	
420μmふるい通過質量百分率 %	99.94	
74μmふるい通過質量百分率 %	86.90	
最大粒径 mm		
60% 粒径 mm	0.011	
30% 粒径 mm		
10% 粒径 mm		
均等係数 U_c		
曲率係数 U_c'		
土粒子の比重 G_s		
使用した分散剤		



コロイド	粘土	シルト	細砂	粗砂	細砂	粗砂	細砂	粗砂	75
0.001	0.005	0.074	0.42	2.0	4.76	75			

備考

Silty CLAY with some sand

D 75 = 0.41
D 50 = 0.003
D 25 = ---

注) コロイド分を含む

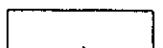


Table 2.3-3 (16)

JIS A 1204

土の粒度試験結果

報告用紙

調査名・調査地点 BOTTOM MATERIAL (Discharge Stat.)
STAT. F-1

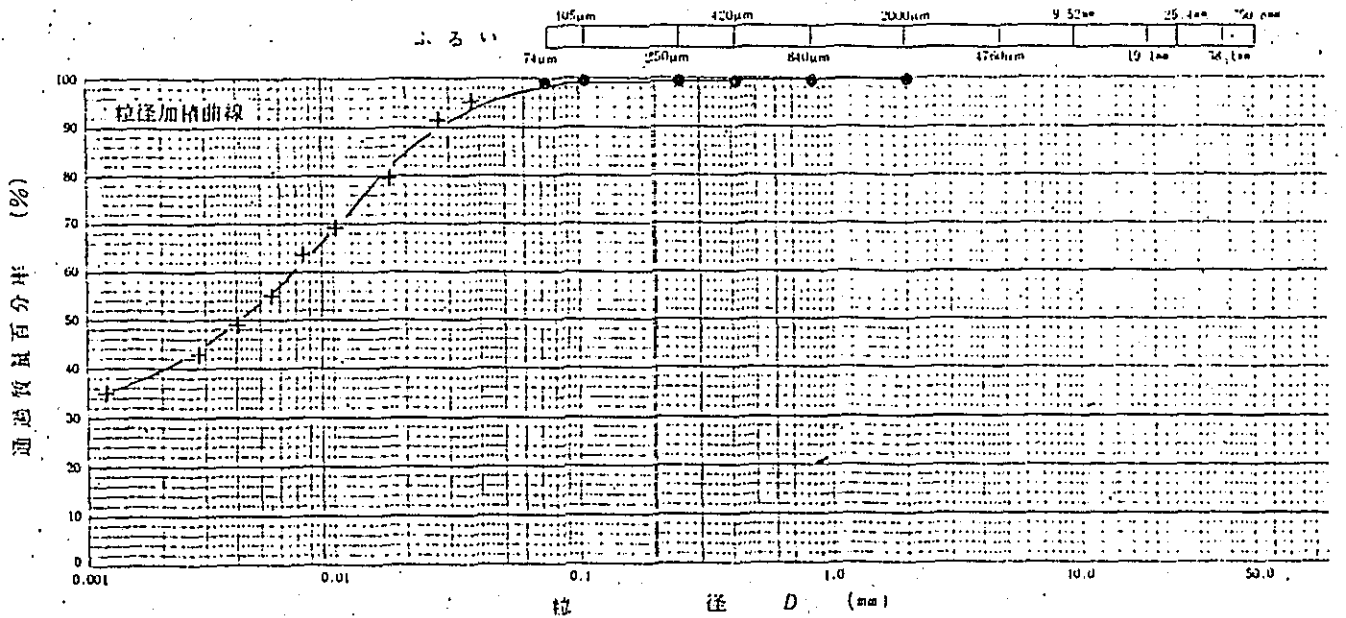
試験年月日 1989年 1月 31日

試験者 ANDY ATANDY

4th Stage (Sampled on 7th Jan. 1989)

試料番号 深さ	No. (m - m)		No. (m - m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふるい分け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.98	0.84	
	0.42	99.94	0.42	
	0.25	99.90	0.25	
比重浮いよう	0.105	99.74	0.105	
	0.074	99.34	0.074	
	0.0365	95.2		
	0.0263	91.2		
	0.0175	79.0		
	0.0101	68.9		
	0.0076	62.8		
	0.0055	54.7		
0.0040	48.6			
0.0028	42.6			
0.0012	34.4			

試料番号 深さ	No. (m - m)	No. (m - m)
4.76mm以上の粒子	%	
細砂分 (4.76 - 2mm)	%	
粗砂分 (2 - 0.42mm)	0.06	
細砂分 (0.42 - 0.074mm)	1.94	
シルト分 (0.074 - 0.005mm)	44.0	
粘土分 (0.005mm以下)	54.0	
コロイド分 (0.001mm以下)	34.4	
2000μmふるい通過質量百分率 %	100.0	
420μmふるい通過質量百分率 %	99.94	
75μmふるい通過質量百分率 %	99.34	
最大粒径 mm		
60 % 粒径 mm	0.007	
30 % 粒径 mm		
10 % 粒径 mm		
均等係数 U _c		
曲率係数 U _s		
土粒子の比重 G _s		
使用した分散剤		



コロイド	粘 土	シ ル ト	細 砂	粗 砂	細 礫	礫	石
0.001	0.005	0.074	0.42	2.0	4.75	75	75

備考
CLAY and SILT trace sand
D 75 = 0.013
D 50 = 0.0042
D 25 注)コロイド分を含む

Table 2.3-3 (17)

JIS A 1204

土の粒度試験結果

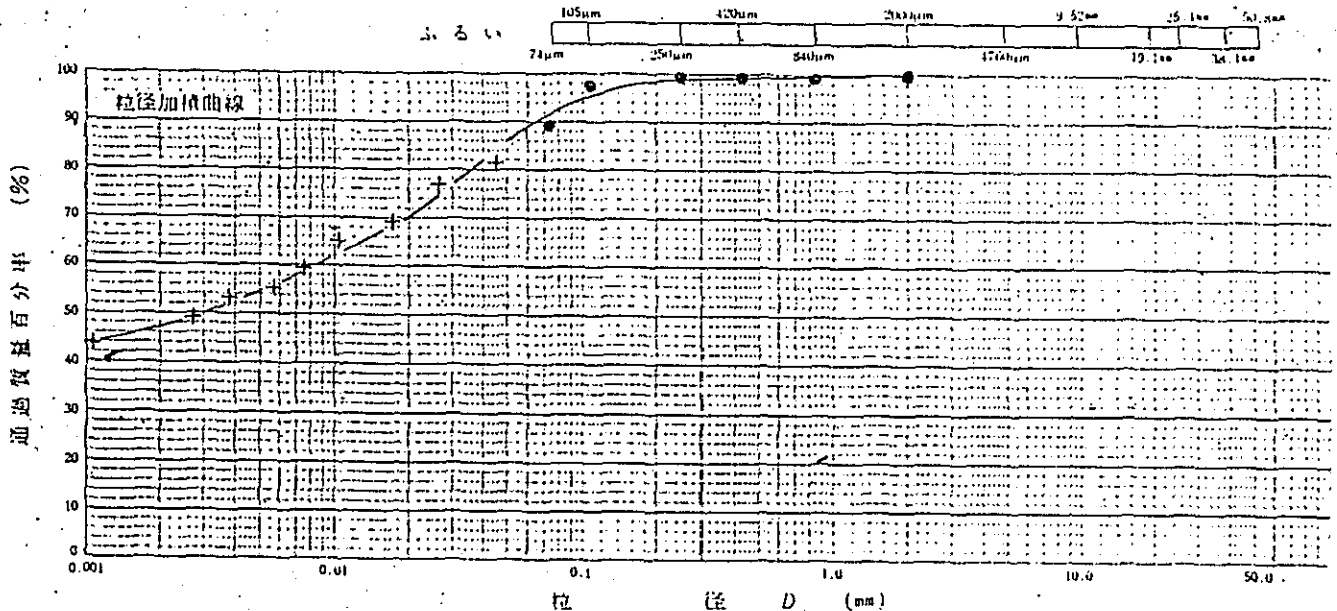
報告用紙

調査名・調査地点 BOTTOM MATERIAL (Discharge Stat.)
STAT. F-2
4th Stage (Sampled on 7th Jan. 1989)

試験年月日 1989年1月31日
試験者 ARDY AFANDY

試料番号 深さ	No. (m - m)		No. (m - m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
る い 分 け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.98	0.84	
	0.42	99.94	0.42	
	0.25	99.86	0.25	
比 重 浮 び よ う	0.105	97.78	0.105	
	0.074	89.22	0.074	
	0.0366	81.1		
	0.0263	77.5		
	0.0174	68.5		
	0.0102	64.9		
	0.0073	59.5		
	0.0053	55.9		
0.0038	52.2			
0.0027	48.7			
0.0011	43.2			

試料番号 深さ	No. (m - m)	No. (m - m)
4.76mm以上の粒子 %		
細砂分 (4.76 - 2mm) %		
粗砂分 (2 - 0.42mm) %	0.06	
細砂分 (0.42 - 0.074mm) %	7.94	
シルト分 (0.074 - 0.005mm) %	38.0	
粘土分 (0.005mm以下) %	54.0	
コロイド分 (0.001mm以下) %	44.0	
200μmふるい通過質量百分率 %	100	
420μmふるい通過質量百分率 %	99.94	
75μmふるい通過質量百分率 %	89.22	
最大粒径 mm		
60 % 粒径 mm	0.0085	
30 % 粒径 mm		
10 % 粒径 mm		
均等係数 U _c		
曲率係数 U _s		
土粒子の比重 G _s		
使用した分散剤		



コロイド	粘土	シルト	細砂	粗砂	細砂	粗砂	細砂	粗砂	細砂
0.001	0.005	0.074	0.42	2.0	4.76				

備考 CLAY and SILT trace sand
D 75 = 0.026
D 50 = 0.003
D 25 = ---

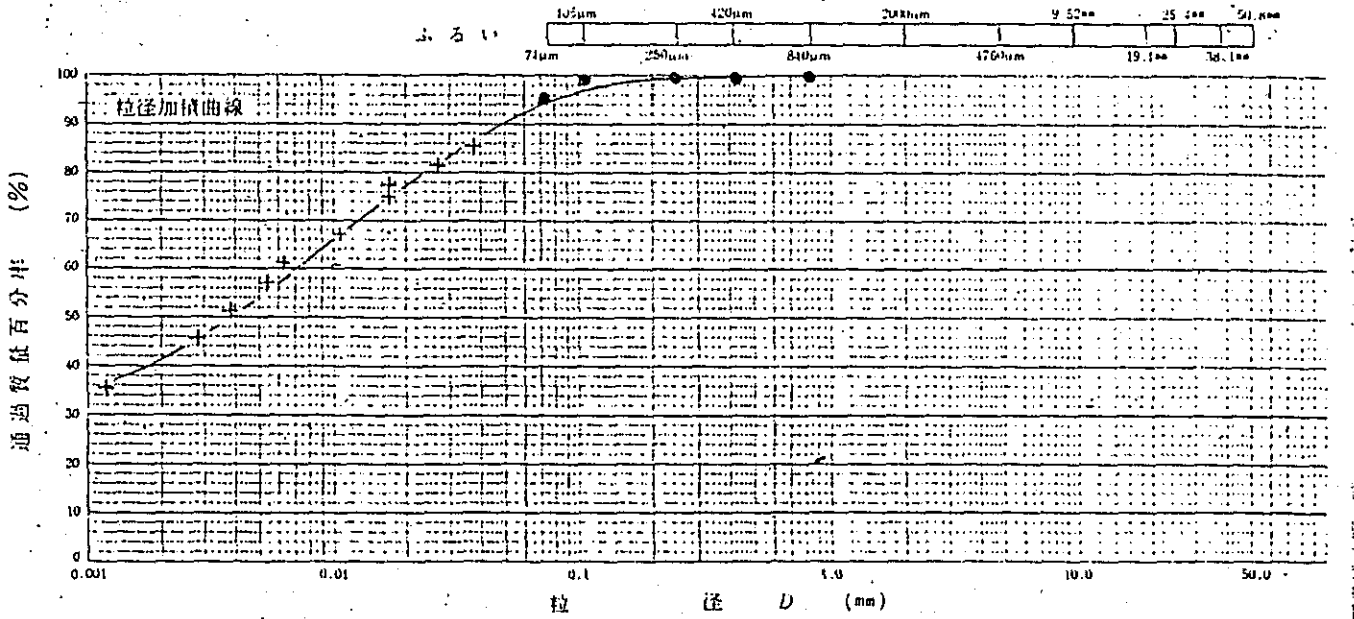
注) コロイド分を含む

Table 2. 3-3 (18)

JIS A 1204 土の粒度試験結果 報告用紙

調査名・調査地点 BOTTOM MATERIAL(Discharge Stat.) STAT. F-3 試験年月日 1989年1月31日
 4th Stage (Sampled on 7th Jan.1989) 試験者 ANDY AFANDY

試料番号 深さ	No. (m - m)		No. (m - m)		試料番号 深さ	No. (m - m)		No. (m - m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %		項目	値	項目	値
ふるい分け	50.8		50.8		4.76mm以上の粒子 %				
	38.1		38.1		細礫分 (4.76 - 2mm) %				
	25.4		25.4		粗砂分 (2 - 0.42mm) %	0.02			
	19.1		19.1		細砂分 (0.42 - 0.075mm) %	5.48			
	9.52		9.52		シルト分 (0.075 - 0.005mm) %	40.5			
	4.76		4.76		粘土分 ^注 (0.005mm以下) %	54.0			
	2.00		2.00		コロイド分(0.001mm以下) %	34.9			
	0.84	100	0.84		2000μmふるい通過質量百分率 %	100.0			
	0.42	99.98	0.42		420μmふるい通過質量百分率 %	99.98			
	0.25	99.92	0.25		75μmふるい通過質量百分率 %	97.46			
	0.105	98.80	0.105		最大粒径 mm				
	0.074	97.46	0.074		60 % 粒径 mm	0.007			
比重浮いよう	0.0378	85.5			30 % 粒径 mm				
	0.0272	81.5			10 % 粒径 mm				
	0.0176	75.6			均等係数 U _c				
	0.0105	67.6			曲率係数 U _s				
	0.0076	61.6			土粒子の比重 G _s				
	0.0054	57.6			使用した分散剤				
	0.0039	51.7							
	0.0028	45.8							
0.0012	35.8								



コロイド	粘土	シルト	細砂	粗砂	細礫	粗礫	75μm以上
0.001	0.005	0.075	0.42	2.0	4.76		75

備考 CLAY and SILT trace sand
 D 75 = 0.018
 D 50 = 0.0039
 D 25 = ---
 注) コロイド分を含む

Table 2. 3-3 (19)

JIS A 1204

土の粒度試験結果

報告用紙

調査名・調査地点 BOTTOM MATERIAL (Discharge Stat.)
STAT. F-4

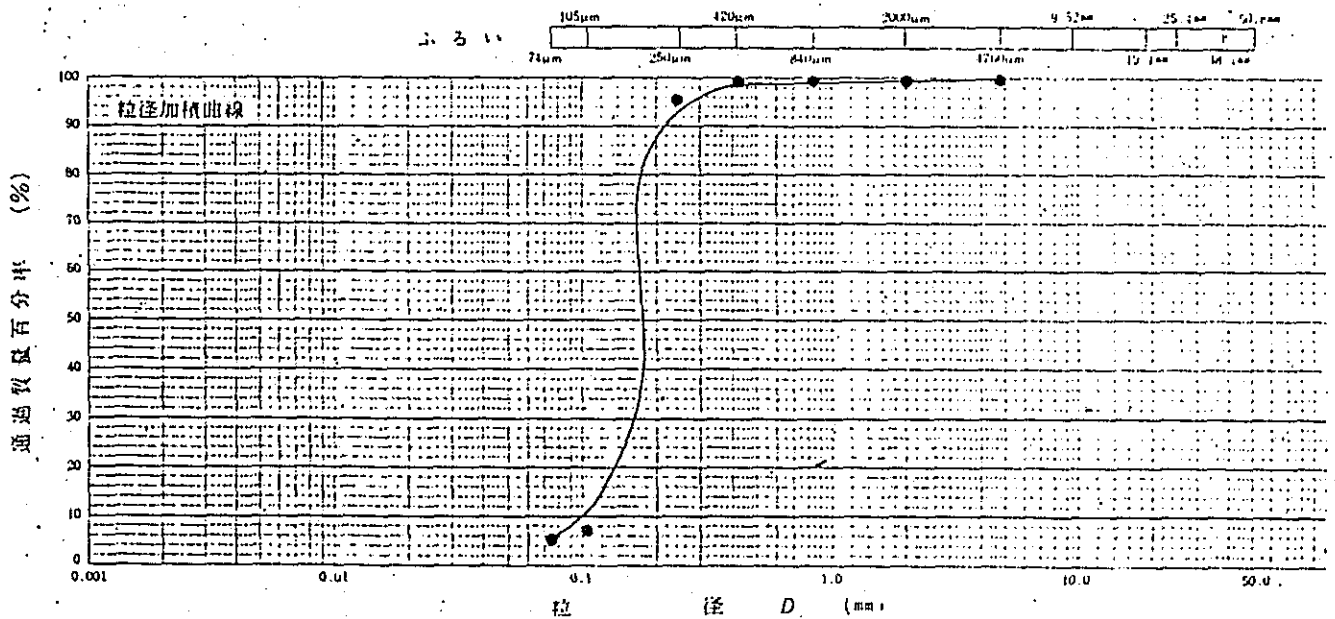
試験年月日 1989年 1月 31日

4th Stage (Sampled on 7th Jan. 1989)

試験者 ANDY ATANDY

試料番号 深さ	No. (m - m)		No. (m - m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
分 け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76	100	4.76	
	2.00	99.98	2.00	
	0.84	99.90	0.84	
	0.42	99.58	0.42	
	0.25	95.60	0.25	
	0.105	6.46	0.105	
0.074	4.80	0.074		
比 重 浮 ひ よ う				

試料番号 深さ	No. (m - m)		No. (m - m)	
4.76mm以上の粒子 %				
細砂分 (4.76 - 2mm) %	0.02			
粗砂分 (2 - 0.42mm) %	0.40			
細砂分 (0.42 - 0.074mm) %	94.78			
シルト分 (0.074 - 0.005mm) %	4.8			
粘土分 ^注 (0.005mm以下) %				
コロイド分(0.001mm以下) %				
2000μmふるい通過質量百分率 %	99.98			
420μmふるい通過質量百分率 %	99.58			
74μmふるい通過質量百分率 %	4.80			
最大粒径 mm				
60% 粒径 mm	0.16			
30% 粒径 mm	0.16			
10% 粒径 mm	0.10			
均等係数 U_c	1.00			
曲率係数 U_s	1.6			
土粒子の比重 G_s				
使用した分散剤				



コロイド	粘土	シルト	細砂	粗砂	細礫	粗礫	75μm以上
0.001	0.005	0.075	0.42	2.0	4.76		75

備考

Fine SAND trace silt, fine gravel

D 75 = 0.17

D 50 = 0.18

D 25 = 0.15

注) コロイド分を含む

Table 2.3-3 (20)

JIS A 1204

土の粒度試験結果

報告用紙

調査名・調査地点: BOTTOM MATERIAL (Discharge Stat.)
STAT. F-5

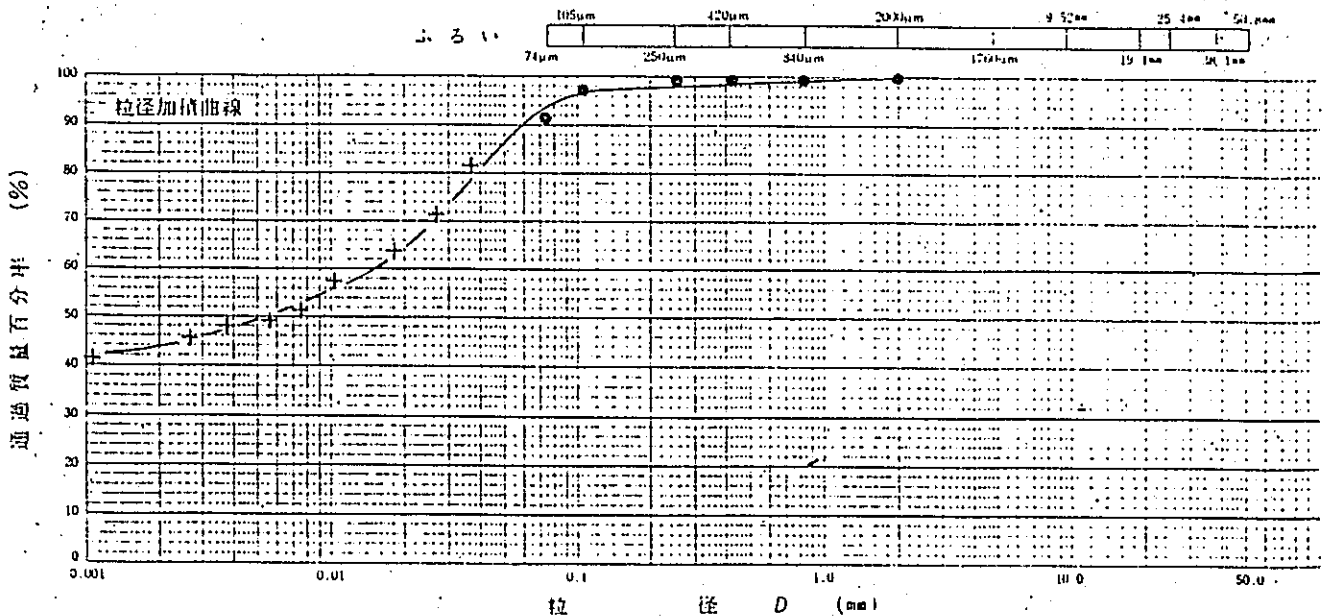
試験年月日: 1989年1月31日

4th Stage (Sampled on 7th Jan. 1989)

試験者: ANDY APANDY

試料番号 深さ	No. (m - m)		No. (m - m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふるい分け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.98	0.84	
	0.42	99.96	0.42	
	0.25	99.92	0.25	
	0.105	97.22	0.105	
	0.074	91.34	0.074	
	比重浮上	0.0370	81.2	
0.0273		71.9		
0.0180		62.7		
0.0106		57.2		
0.0077		51.6		
0.0054		49.8		
0.0038		48.0		
0.0027		44.4		
0.0011	41.5			

試料番号 深さ	No. (m - m)	No. (m - m)
4.76mm以上の粒子	%	
細礫分 (4.76 - 2mm)	%	
粗砂分 (2 - 0.42mm)	0.04	
細砂分 (0.42 - 0.074mm)	5.96	
シルト分 (0.074 - 0.005mm)	44.0	
粘土分 ^注 (0.005mm以下)	50.0	
コロイド分(0.001mm以下)	40.9	
200μmふるい通過質量百分率	100.0	
420μmふるい通過質量百分率	99.96	
74μmふるい通過質量百分率	91.34	
最大粒径 mm		
60% 粒径 mm	0.015	
30% 粒径 mm		
10% 粒径 mm		
均等係数 U _c		
曲率係数 U _s		
土粒子の比重 G _s		
使用した分散剤		



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	75
0.001	0.005	0.074	0.42	2.0	4.76		

備考

CLAY and SILT trace sand

D 75 = 0.032
D 50 = 0.0055
D 25 =

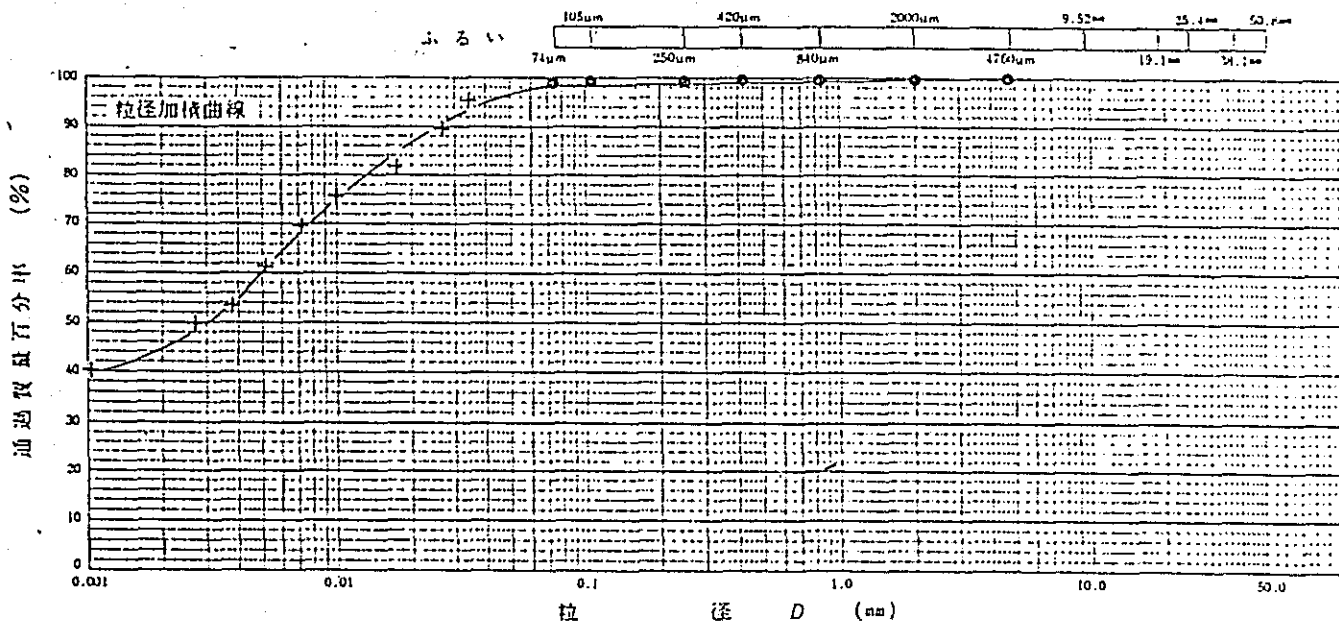
(注) コロイド分を含む

Table 2. 3-3 (21)

調査名・調査地点 BOTTOM MATERIAL SURVEY STAT. F-1(Discharge Stat.) 試験年月日 3年29月89日
 5th Stage (Sampled on 9th Feb.1989) 試験者 ANDY APANDI

試料番号 深さ	No. (m - m)		No. (m - m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふ ら い 分 け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76	100	4.76	
	2.00	99.88	2.00	
	0.84	99.80	0.84	
	0.42	99.74	0.42	
	0.25	99.70	0.25	
比 重 浮 い と う	0.105	99.16	0.105	
	0.074	98.80	0.074	
	0.0355	95.8		
	0.0262	87.8		
	0.0169	81.9		
	0.0100	75.8		
	0.0072	69.9		
	0.0053	61.9		
0.0038	53.9			
0.0027	49.9			
0.0011	40.0			

試料番号 深さ	No. (m - m)	No. (m - m)
4.76mm以上の粒子 %		
細砂分 (4.76 - 2mm) %	0.12	
粗砂分 (2 - 0.42mm) %	0.14	
細砂分 (0.42 - 0.074mm) %	0.94	
シルト分 (0.074 - 0.005mm) %	38.80	
粘土分 (0.005mm以下) %	60	
コロイド分 (0.001mm以下) %	40.0	
2000μmふるい通過質量百分率 %	99.88	
420μmふるい通過質量百分率 %	99.74	
74μmふるい通過質量百分率 %	98.80	
最大粒径 mm		
60 % 粒径 mm	0.005	
30 % 粒径 mm		
10 % 粒径 mm		
均等係数 U _c		
曲率係数 U _s		
土粒子の比重 G _s	2.59	
使用した分散剤		



コロイド	粘土	シルト	細砂	粗砂	細砂	粗砂	細砂	粗砂
0.001	0.005	0.074	0.42	2.0	4.76			

備考

SILT and CLAY

D 75 = 0.01

D 50 = 0.003

注) コロイド分を含む

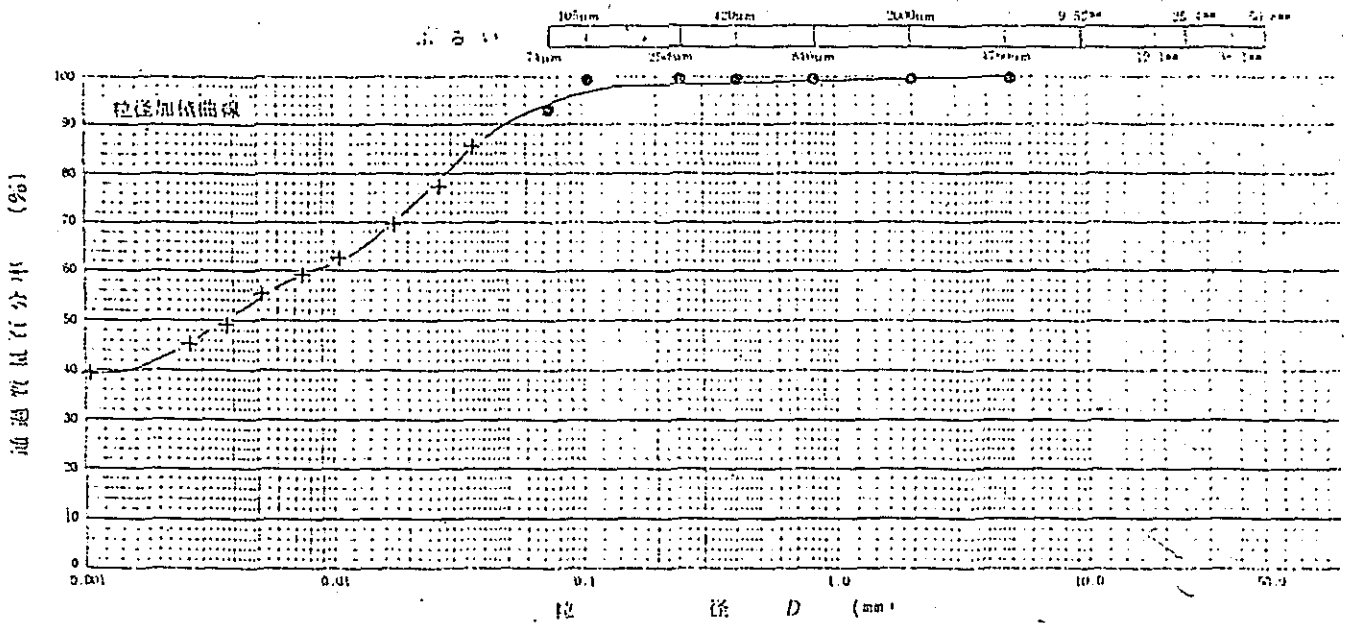
Table 2.3-3 (2)

JIS A 1204 土の粒度試験結果 報告用紙

調査名・調査地点 BOTTOM MATERIAL SURVEY STAT. F-2 (Discharge Stat.) 試験年月日 3 年 29 月 89 日
 5th Stage (Sampled on 9th Feb. 1989) 試験者 ANDY APANDI

試料番号 深さ	No. (m - m)		No. (m - m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふ ら い 分 け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76	100	4.76	
	2.00	99.98	2.00	
	0.84	99.96	0.84	
	0.42	99.92	0.42	
比 重 浮 ひ こ う	0.25	99.86	0.25	
	0.105	98.86	0.105	
	0.074	92.56	0.074	
	0.0366	84.2		
	0.0268	76.7		
	0.0175	69.2		
	0.0104	61.7		
	0.0075	58.0		
0.0053	54.2			
0.0038	48.6			
0.0027	44.8			
0.0011	39.3			

試料番号 深さ	No. (m - m)	No. (m - m)
4.76mm以上の粒子	%	
細礫分 (4.76 - 2mm)	0.02	
粗砂分 (2 - 0.42mm)	0.06	
細砂分 (0.42 - 0.074mm)	7.36	
シルト分 (0.074 - 0.005mm)	38.56	
粘土分 (0.005mm以下)	54	
コロイド分 (0.001mm以下)	39.0	
200μmふるい通過質量百分率	99.98	
420μmふるい通過質量百分率	99.92	
75μmふるい通過質量百分率	92.56	
最大粒径 mm		
60% 粒径 mm	0.008	
30% 粒径 mm		
10% 粒径 mm		
均等係数		
曲率係数		
土粒子の比重 G _s	2.62	
使用した分散剤		



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	石
0.001	0.005	0.075	0.42	2.0	4.76		75

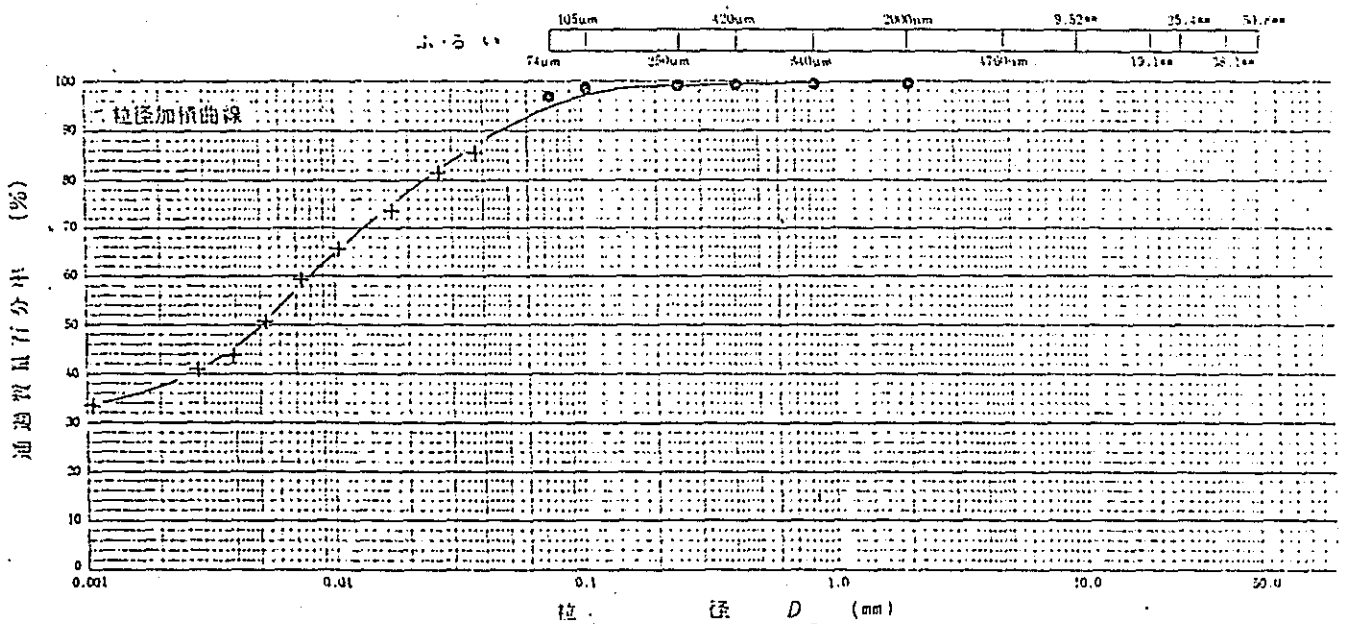
備考 CLAY and SILT. D₇₅= 0.022 D₅₀= 0.0038
 注) コロイド分を含む

Table 2.3-3 (2)

調査名・調査地点 BOTTOM MATERIAL SURVEY. 試験年月日 3 年 29 月 89' H
 STAT. F-3 (Discharge Stat.) 試験者 ANDY APANDI
 5th Stage (Sampled on 9th Feb.1989)

試料番号 深さ	No. (m ~ m)		No. (m ~ m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
よ る い 分 計	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.98	0.84	
	0.42	99.94	0.42	
	0.25	99.90	0.25	
比 重 評 価	0.105	98.26	0.105	
	0.074	96.46	0.074	
	0.0364	84.4		
	0.0262	81.1		
	0.0171	73.4		
	0.0102	65.6		
	0.0074	59.9		
	0.0054	50.2		
0.0039	42.5			
0.0028	40.6			
0.0011	32.8			

試料番号 深さ	No. (m ~ m)		No. (m ~ m)	
	4.76mm以上の粒子 %			
細礫分 (4.76 ~ 2mm) %				
粗砂分 (2 ~ 0.42mm) %	0.06			
細砂分 (0.42 ~ 0.074mm) %	3.48			
シルト分 (0.074 ~ 0.005mm) %	46.46			
粘土分 (0.005mm以下) %	50			
コロイド分 (0.001mm以下) %	32.0			
2000µmふるい通過質量百分率 %	100			
420µmふるい通過質量百分率 %	99.94			
74µmふるい通過質量百分率 %	96.46			
最大粒径 mm				
60% 粒径 mm	0.008			
30% 粒径 mm				
10% 粒径 mm				
均等係数 U _c				
崩壊係数 U _b				
土粒子の比重 G _s	2.64			
使用した分散剤				



コロイド	粘 土	シ ル ト	細 砂	粗 砂	細 礫	礫	粒径 (mm)
0.001	0.005	0.074	0.42	2.0	4.76	75	

備考 SILT and CLAY trace Sand D 75 = 0.018 D 50 = 0.005

注) コロイド分を含む

Table 2.3-3 (24)

JIS A 1204

土の粒度試験結果

報告用紙

調査名・調査地点 BOTTOM MATERIAL SURVEY
STAT. F-4 (Discharge Stat.)

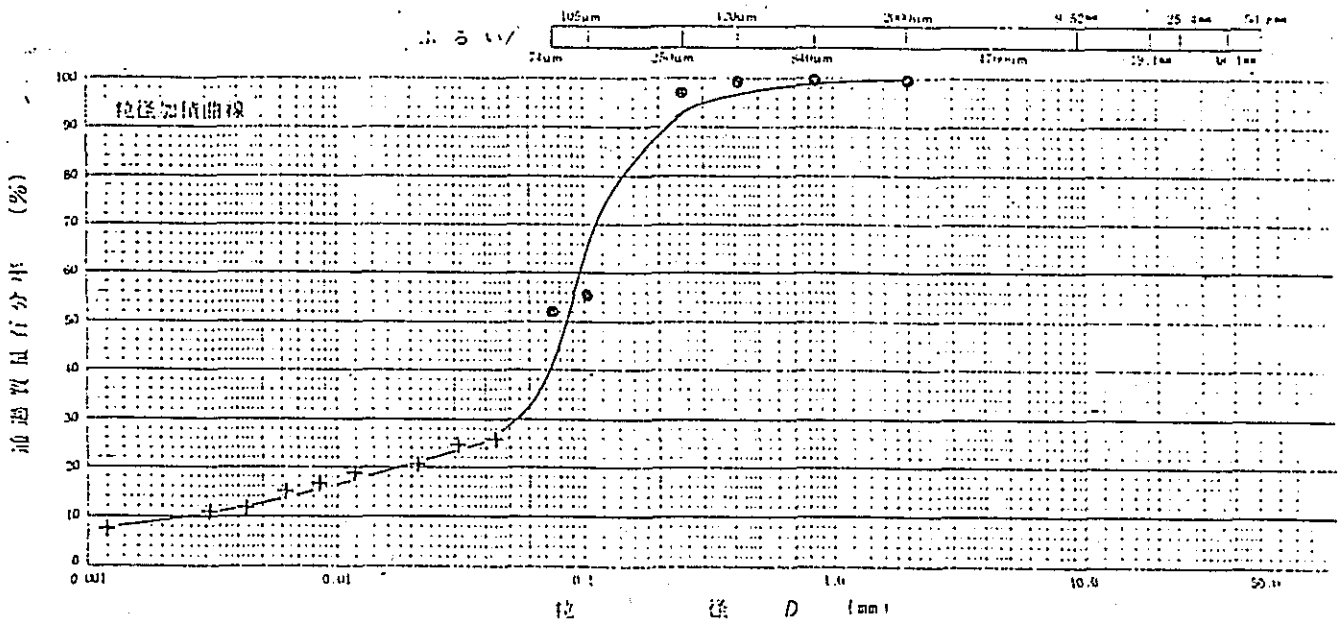
試験年月日 3年29月89日

5th Stage (Sampled on 9th Feb.1989)

試験者 ANDY APANDI

試料番号 深さ	No. (m - m)		No. (m - m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
5	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.92	0.84	
	0.42	99.90	0.42	
	0.25	96.46	0.25	
比	0.105	54.56	0.105	
	0.074	52.04	0.074	
	0.0445	25.7		
	0.0315	24.7		
	0.023	21.6		
	0.0120	18.5		
	0.0085	16.4		
	0.0061	14.4		
	0.0044	11.3		
	0.0031	10.3		
0.0012	7.2			

試料番号 深さ	No. (m - m)	No. (m - m)
4.76mm以上の粒子	%	
細砂分 (4.76 - 2 mm)	%	
粗砂分 (2 - 0.42 mm)	0.10	
細砂分 (0.42 - 0.074 mm)	47.86	
シルト分 (0.074 - 0.005 mm)	39.84	
粘土分 (0.005 mm以下)	12.2	
コロイド分 (0.001 mm以下)	7.0	
2000µmふるい通過質量百分率 %	100	
420µmふるい通過質量百分率 %	99.90	
75µmふるい通過質量百分率 %	52.04	
最大粒径 mm		
60% 粒径 mm	0.12	
30% 粒径 mm	0.55	
10% 粒径 mm	0.0024	
均等係数	50	
曲率係数	10.5	
土粒子の比重 G _s	2.69	
使用した分散剤		



コロイド	粘土	シルト	細砂	粗砂	総砂	総土	総土
0.001	0.005	0.074	0.42	2.0	4.76	75	75

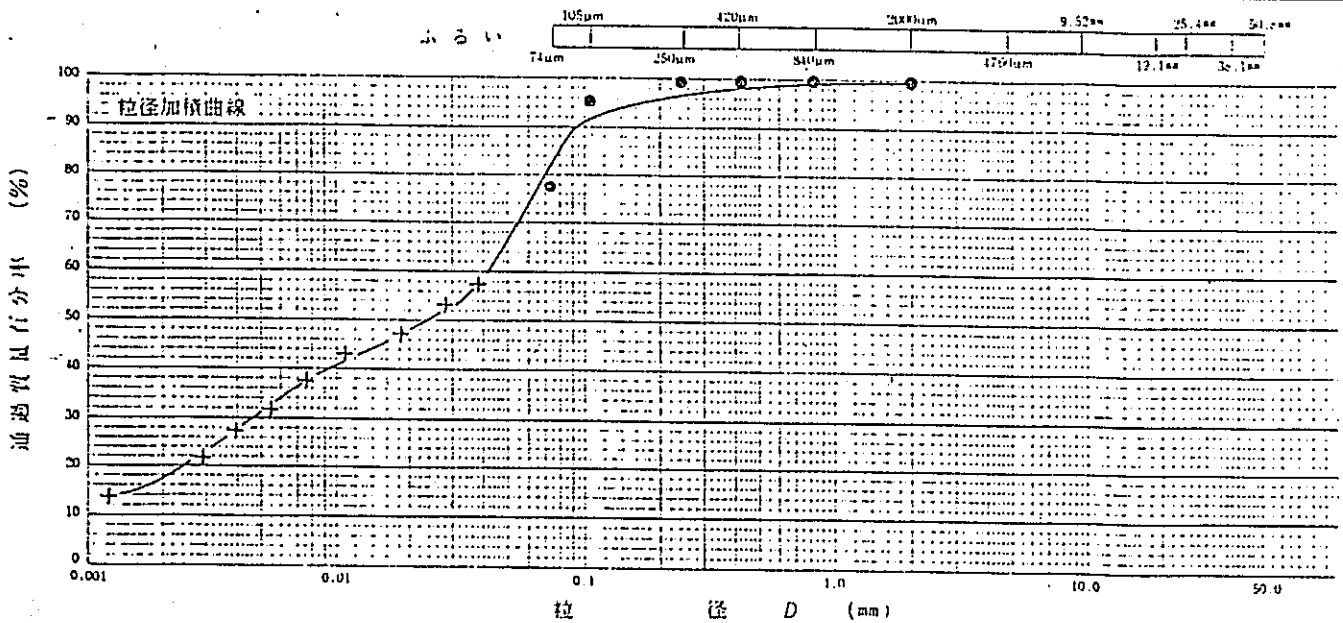
備考
SILT and FINE SAND with some Clay
D 75 = 0.13
D 50 = 0.085
D 25 = 0.04
注) コロイド分を含む

Table 2. 3-3 (25)

調査名・調査地点: BOTTOM MATERIAL SURVEY STAT. F-5 (Discharge Stat.) | 試験年月日 3 年 29 月 89 日
 5th Stage (Sampled on 9th Feb.1989) | 試験者 ANDY APANDI

試料番号 深さ	No. (m - m)		No. (m - m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふ る い 分 け /	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.98	0.84	
	0.42	99.94	0.42	
	0.25	99.84	0.25	
比 重 浮 い よ う	0.105	94.74	0.105	
	0.074	76.94	0.074	
	0.0387	57.0		
	0.0280	52.3		
	0.0181	47.7		
	0.0107	43.1		
	0.0077	37.0		
	0.0056	30.8		
0.0040	26.2			
0.0029	21.6			
0.0012	13.9			

試料番号 深さ	No. (m - m)		No. (m - m)	
4.76mm以上の粒子 %				
細礫分 (4.76 - 2mm) %				
粗砂分 (2 - 0.42mm) %	0.06			
細砂分 (0.42 - 0.074mm) %	23.00			
シルト分 (0.074 - 0.005mm) %	46.44			
粘土分 ^注 (0.005mm以下) %	30.5			
コロイド分(0.001mm以下) %	13.9			
2000μmふるい通過質量百分率 %	100			
420μmふるい通過質量百分率 %	99.94			
74μmふるい通過質量百分率 %	76.94			
最大粒径 mm				
60 % 粒径 mm	0.042			
30 % 粒径 mm	0.0046			
10 % 粒径 mm				
均等係数 U_c				
曲率係数 U_s				
土粒子の比重 G_s	2.67			
使用した分散剤				



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	岩石質
0.001	0.005	0.074	0.42	2.0	4.76		75

備考: Sandy Clayey SILT | D 75 = 0.065 | D 50 = 0.022 | D 25 = 0.0033 | 注) コロイド分を含む

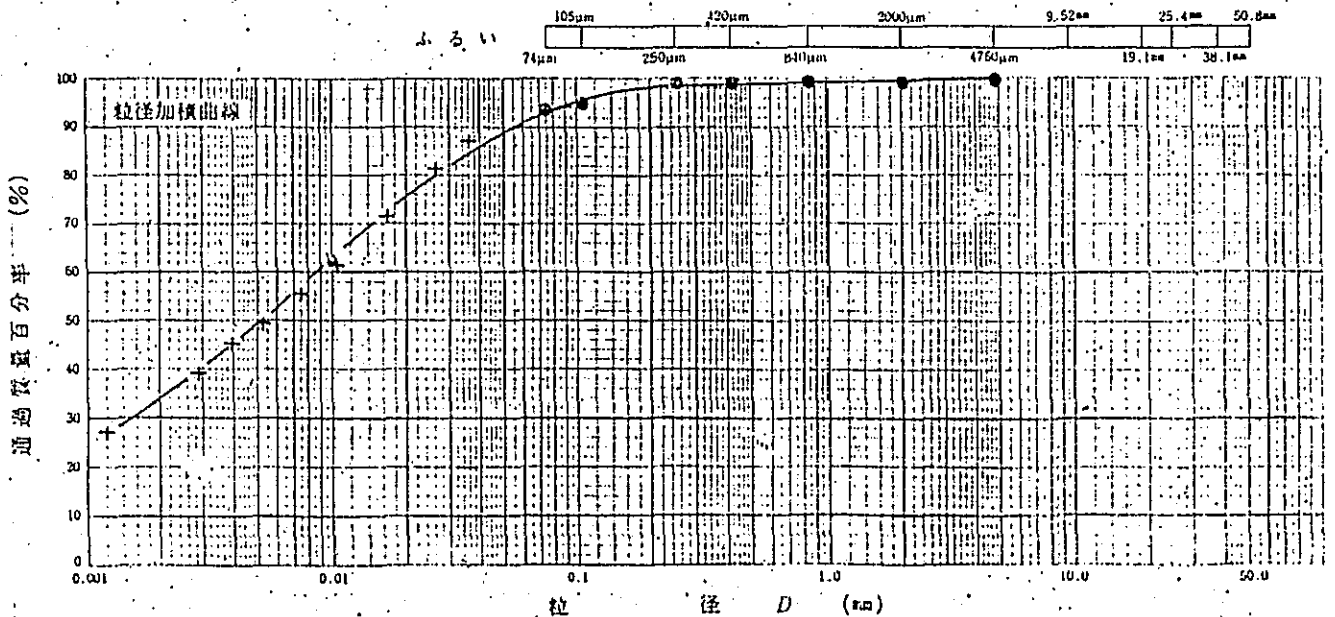
Table 2.3-3 (26)

JIS A 1204 土の粒度試験結果 報告用紙

調査名: 調査地点: BOTTOM MATERIAL SURVEY STAT. F1 (Discharge Stat.) 試験年月日: 5 年 30 月 1989 日
 6th Stage (Sampled on 23rd Mar. 1989) 試験者: Andy / Endang

試料番号 深さ	Na (m ~ m)		Na (m ~ m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふ る い 分 け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76	100	4.76	
	2.00	99.94	2.00	
	0.84	99.86	0.84	
	0.42	99.67	0.42	
	0.25	99.21	0.25	
比 重 評 び	0.105	95.09	0.105	
	0.074	94.08	0.074	
	0.0372	86.4		
	0.0270	80.6		
	0.0178	71.0		
	0.0107	61.4		
	0.0077	55.6		
	0.0055	51.8		
0.0040	44.21			
0.0029	38.4			
0.0012	26.9			

試料番号 深さ	Na (m ~ m)	Na (m ~ m)
4.76mm以上の粒子 %		
細砂分 (4.76 ~ 2mm) %	0.06	
粗砂分 (2 ~ 0.42mm) %	0.27	
細砂分 (0.42 ~ 0.074mm) %	5.59	
シルト分 (0.074 ~ 0.005mm) %	44.08	
粘土分 (0.005mm以下) %	50	
コロイド分 (0.001mm以下) %	26.9	
2000μmふるい通過質量百分率 %	99.94	
420μmふるい通過質量百分率 %	99.67	
74μmふるい通過質量百分率 %	94.08	
最大粒径 mm		
60 % 粒径 mm	0.0085	
30 % 粒径 mm	0.0015	
10 % 粒径 mm		
均等係数 U_c		
曲率係数 U_c'		
土粒子の比重 G_s	2.54	
使用した分散剤		



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	75
0.001	0.005	0.074	0.42	2.0	4.75		

備考: SILT and CLAY trace Sand D 75 = 0.02 D 50 = 0.005

注) コロイド分を含む

Table 2. 3-3 (Z)

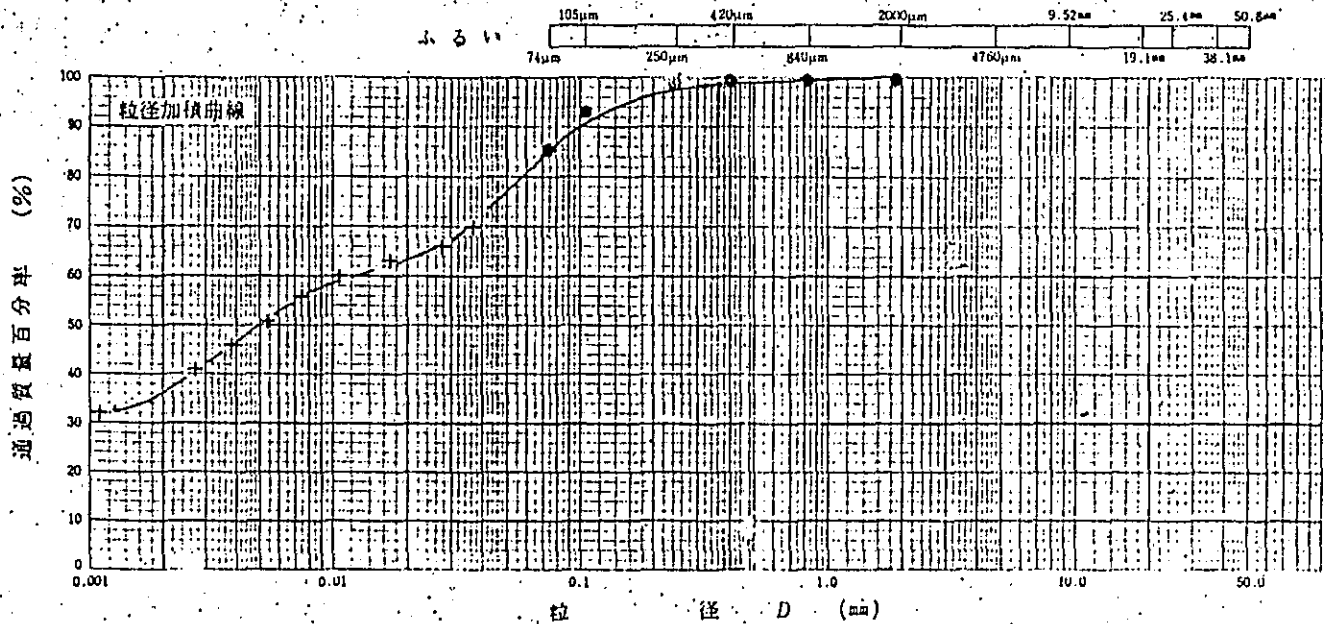
JIS A 1204

土の粒度試験結果

報告用紙

調査名・調査地点: BOTTOM MATERIAL SURVEY STAT. F-2 (Discharge Stat.)
 試験年月日: 5 年 30 月 1989
 6th Stage (Sampled on 23rd Mar. 1989) 試験者: Andy / Endang

試料番号 深さ	No. (m - m)		No. (m - m)		試料番号 深さ	No. (m - m)		No. (m - m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %		粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふるい分け	50.8		50.8		4.76mm以上の粒子 %				
	38.1		38.1		細礫分 (4.76~2mm) %				
	25.4		25.4		粗砂分 (2~0.42mm) %	0.31			
	19.1		19.1		細砂分 (0.42~0.074mm) %	14.94			
	9.52		9.52		シルト分 (0.074~0.005mm) %	34.75			
	4.76		4.76		粘土分 ^{注)} (0.005mm以下) %	50			
	2.00	100.00	2.00		コロイド分(0.001mm以下) %	32.5			
	0.84	99.89	0.84		2000μmふるい通過質量百分率 %	100			
	0.42	99.69	0.42		420μmふるい通過質量百分率 %	99.69			
	0.25	99.44	0.25		74μmふるい通過質量百分率 %	84.75			
	0.105	92.66	0.105		最大粒径 mm				
	0.074	84.75	0.074		60% 粒径 mm	0.012			
	比重	0.0379	70.2		30% 粒径 mm				
比重	0.0273	66.7		10% 粒径 mm					
比重	0.0175	63.3		均等係数 U_c					
比重	0.0103	60.0		曲率係数 U_s					
比重	0.0073	56.5		土粒子の比重 G_s	2.61				
比重	0.0053	51.4		使用した分散剤					
比重	0.0038	46.2							
比重	0.0027	41.1							
比重	0.0011	32.5							



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	粒径
0.001	0.005	0.074	0.42	2.0	4.76	75	

備考: Silty CLAY, some Sand
 $D_{75} = 0.045$
 $D_{50} = 0.005$

注) コロイド分を含む

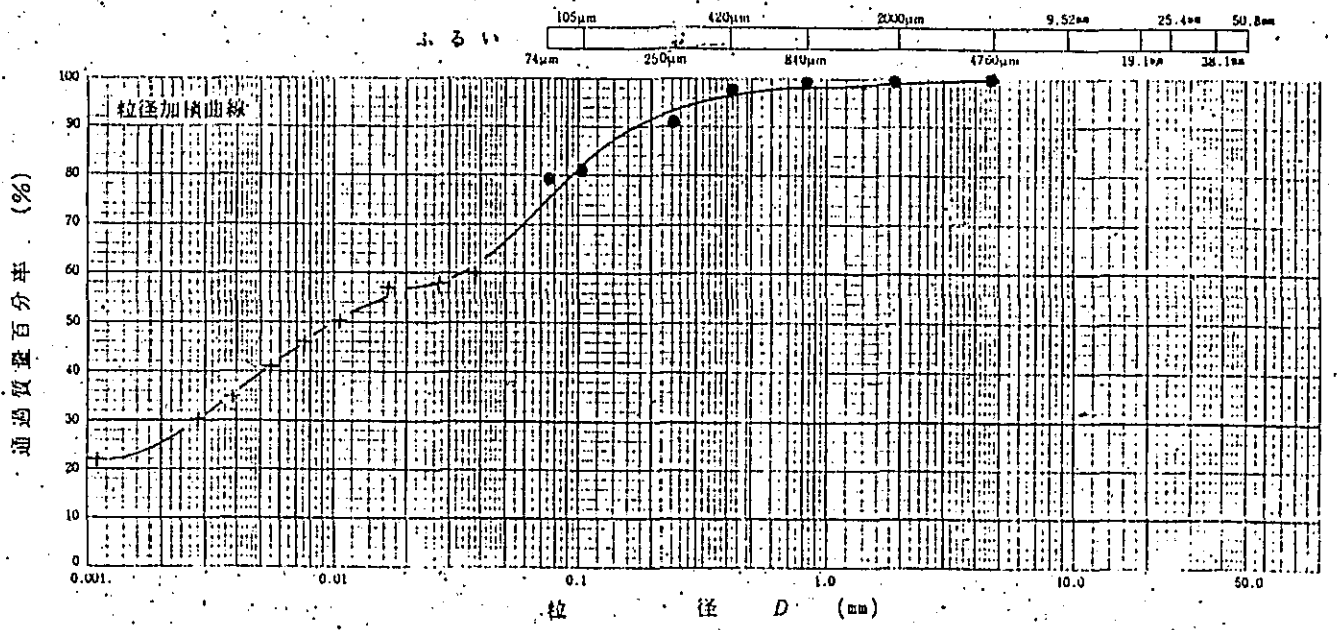
Table 2.3-3 (28)

JIS A 1204 土の粒度試験結果 報告用紙

調査名・調査地点: BOTTOM MATERIAL SURVEY 試験年月日: 5 年 30 月 1989 日
 STAT. F-3 (Discharge Stat.) 試験者: ANDY / ENDANG
 6th Stage (Sampled on 23rd Mar. 1989)

試料番号 深さ	No. (m ~ m)		No. (m ~ m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
よ る い 分 け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76	100	4.76	
	2.00	99.79	2.00	
	0.84	99.48	0.84	
	0.42	96.94	0.42	
	0.25	90.53	0.25	
比 重 浮 い う	0.105	80.12	0.105	
	0.074	79.45	0.074	
	0.0383	60.4		
	0.0273	58.8		
	0.0174	57.2		
	0.0102	50.9		
	0.0075	46.1		
	0.0054	41.3		
0.0039	35.0			
0.0028	30.2			
0.0011	22.3			

試料番号 深さ	No. (m ~ m)	No. (m ~ m)
4.76mm以上の粒子 %		
細礫分 (4.76 ~ 2mm) %	0.21	
粗砂分 (2 ~ 0.42mm) %	2.85	
細砂分 (0.42 ~ 0.074mm) %	17.49	
シルト分 (0.074 ~ 0.005mm) %	39.45	
粘土分 ^注 (0.005mm以下) %	40	
コロイド分(0.001mm以下) %	22.3	
2000μmふるい通過質量百分率 %	99.79	
420μmふるい通過質量百分率 %	96.94	
74μmふるい通過質量百分率 %	79.45	
最大粒径 mm		
60 % 粒径 mm	0.034	
30 % 粒径 mm	0.0028	
10 % 粒径 mm		
均等係数 U _c		
曲率係数 U _s		
土粒子の比重 G _s	2.66	
使用した分散剤		



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	発行材料
0.001	0.005	0.074	0.42	2.0	4.75	75	

備考: CLAY and SILT, some Sand
 D₇₅ = 0.075
 D₅₀ = 0.01
 (注) コロイド分を含む

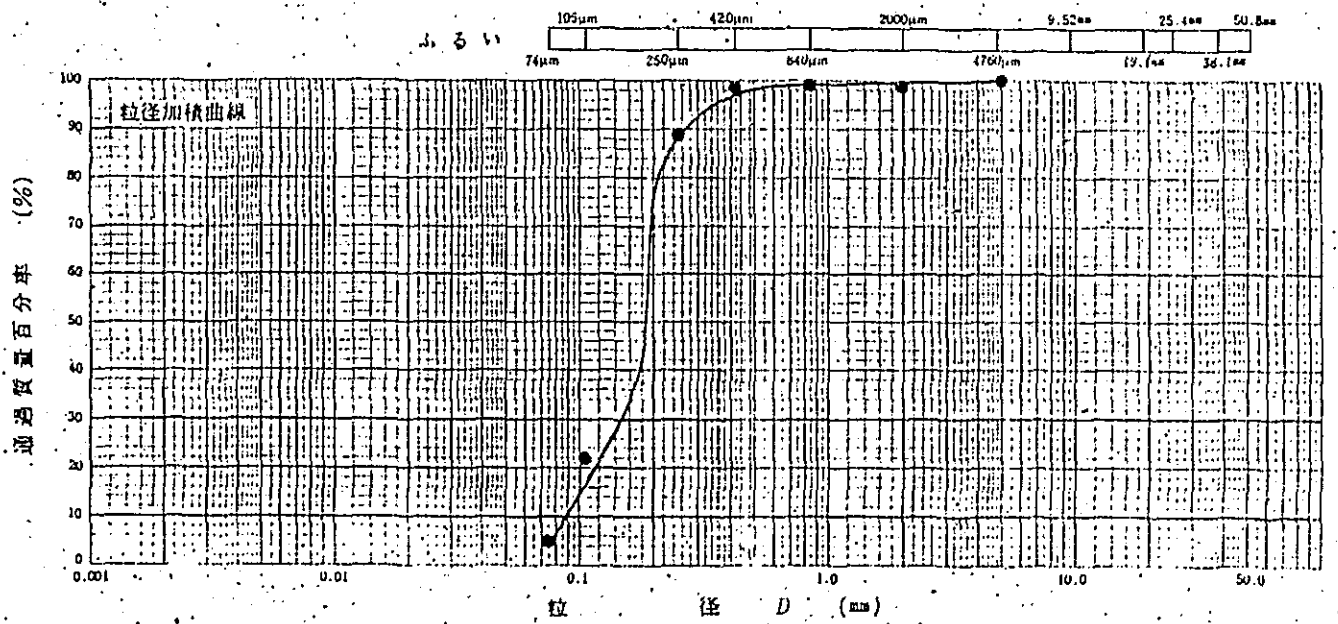
Table 2.3-3 (2)

JIS A 1204 土の粒度試験結果 報告用紙

調査名・調査地点 BOTTOM MATERIAL SURVEY STAT. F-4 (Discharge Stat.) 試験年月日 5 年 30 月 1989 H
 6th Stage (Sampled on 23rd Mar. 1989) 試験者 Andy / Endang

試料番号 深さ	No. (m - m)		No. (m - m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
よ る い 分 け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76	100	4.76	
	2.00	99.87	2.00	
	0.84	99.69	0.84	
	0.42	99.44	0.42	
	0.25	89.25	0.25	
比 重 浮 ひ よ う	0.105	22.15	0.105	
	0.074	5.63	0.074	

試料番号 深さ	No. (m - m)	No. (m - m)
4.76mm以上の粒子 %		
細礫分 (4.76 - 2mm) %	0.13	
粗砂分 (2 - 0.42mm) %	0.06	
細砂分 (0.42 - 0.074mm) %	99.81	
シルト分 (0.074 - 0.005mm) %		
粘土分 (0.005mm以下) %		
コロイド分 (0.001mm以下) %		
2000μmふるい通過質量百分率 %	99.87	
420μmふるい通過質量百分率 %	99.44	
74μmふるい通過質量百分率 %	5.63	
最大粒径 mm		
60 % 粒径 mm	1.25	
30 % 粒径 mm	1.26	
10 % 粒径 mm	0.90	
均等係数 U_c	1.38	
曲率係数 U_c'	1.41	
土粒子の比重 G_s	2.68	
使用した分散剤		



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	岩石質材料
0.001	0.005	0.074	0.42	2.0	4.75	75	

備考 Fine SAND D₇₅ = 0.2 D₅₀ = 0.18 D₂₅ = 0.13 注) コロイド分を含む

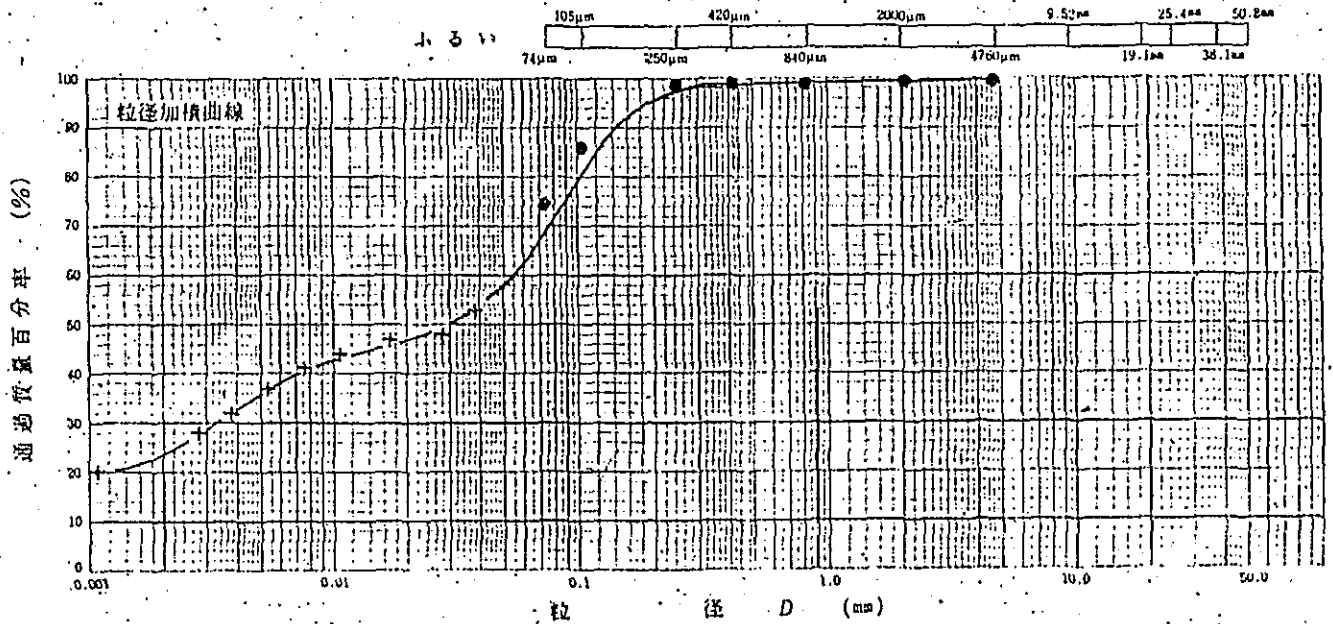
Table 2.3-3 (30)

JIS A 1204 土の粒度試験結果 報告用紙

調査名・調査地点 BOTTOM MATERIAL SURVEY STAT. F-5 (Discharge Stat.) 試験年月日 5年30月1989年
 6th Stage (Sampled on 23rd Mar. 1989) 試験者 Andy / Endang

試料番号 深さ	No. (m - m)		No. (m - m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふるい分け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76	100	4.76	
	2.00	99.89	2.00	
	0.84	99.71	0.84	
	0.42	99.11	0.42	
	0.25	98.13	0.25	
比重浮上	0.105	86.06	0.105	
	0.074	74.03	0.074	
	0.0390	53.3		
	0.0281	48.9		
	0.0179	47.4		
	0.0105	44.4		
	0.0075	41.5		
	0.0054	37.0		
	0.0039	32.6		
	0.0028	28.2		
0.0011	20.8			

試料番号 深さ	No. (m - m)	No. (m - m)
4.76mm以上の粒子 %		
細礫分 (1.76 ~ 2mm) %	0.11	
粗砂分 (2 ~ 0.42mm) %	0.78	
細砂分 (0.42 ~ 0.074mm) %	25.08	
シルト分 (0.074 ~ 0.005mm) %	38.03	
粘土分 (0.005mm以下) %	36	
コロイド分 (0.001mm以下) %	20.8	
2000μm以下の通過質量百分率 %	99.89	
420μm以下の通過質量百分率 %	99.11	
74μm以下の通過質量百分率 %	74.03	
最大粒径 mm		
60 % 粒径 mm	0.055	
30 % 粒径 mm	0.0032	
10 % 粒径 mm		
均等係数 U _c		
曲率係数 U _d		
土粒子の比重 G _s	2.68	
使用した分散剤		



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	砂利
0.001	0.005	0.074	0.42	2.0	4.75		75

備考 Sandy SILT and CLAY
 D₇₅ = 0.09
 D₅₀ = 0.03
 D₂₅ = 0.0022
 注) コロイド分を含む

Table 2.3-3 (31)

JIS A 1204

土の粒度試験結果

報告用紙

調査名・調査地点 BOTTOM MATERIAL (Discharge Stat.)

試験年月日 6 年 26 月 1989 日

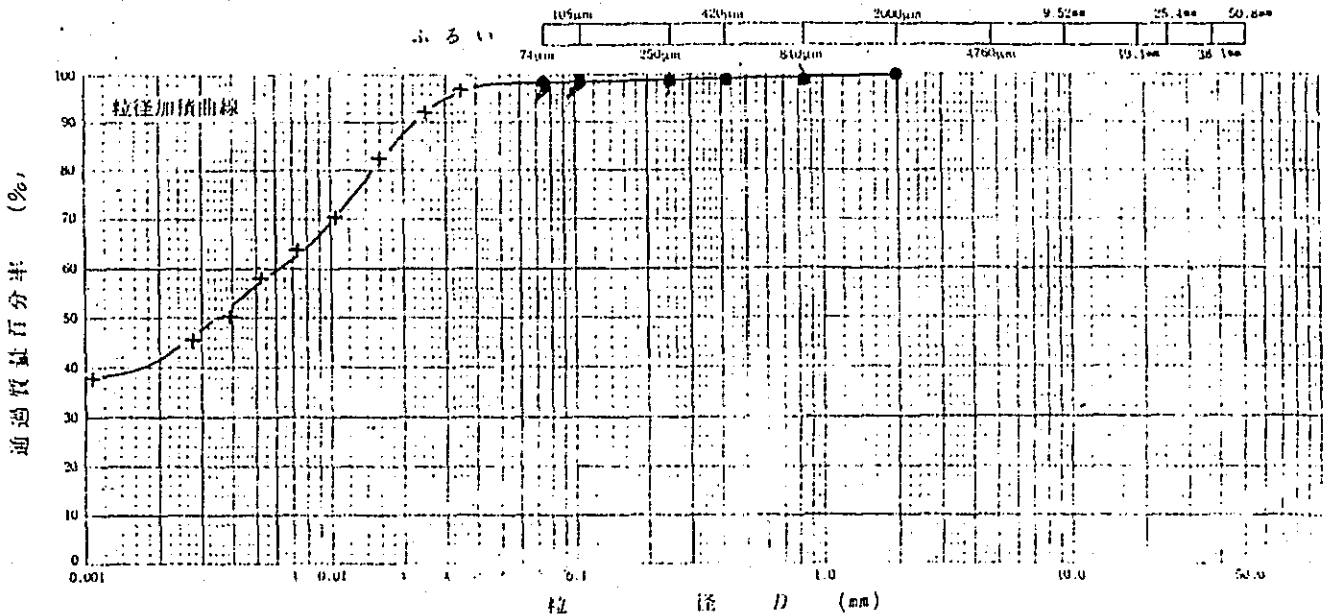
STAT. F-1

試験者 ANDY / ENDANG

7th Stage (Sampled on 26th Apr. 1989)

試料番号 深さ	No. (m - m)		No. (m - m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふるい分け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.92	0.84	
	0.42	99.91	0.42	
	0.25	99.90	0.25	
比重浮上	0.105	99.76	0.105	
	0.074	99.20	0.074	
	0.0355	96.2		
	0.0256	92.2		
	0.0169	82.2		
	0.0103	70.2		
	0.0074	64.2		
	0.0054	58.2		
0.0039	50.1			
0.0028	46.1			
0.0011	38.1			

試料番号 深さ	No. (m - m)	No. (m - m)
4.76mm以上の粒子 %		
細礫分 (4.76 - 2 mm) %		
粗砂分 (2 - 0.42 mm) %	0.09	
細砂分 (0.42 - 0.074 mm) %	0.71	
シルト分 (0.074 - 0.005 mm) %	43.2	
粘土分 (0.005 mm以下) %	56	
コロイド分 (0.001 mm以下) %	38.1	
2000µmふるい通過質量百分率 %	100	
420µmふるい通過質量百分率 %	99.91	
74µmふるい通過質量百分率 %	99.20	
最大粒径 mm		
60 % 粒径 mm	0.0062	
30 % 粒径 mm		
10 % 粒径 mm		
均等係数 U_c		
曲率係数 U_c'		
土粒子の比重 G_s	2.58	
使用した分散剤		



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	岩石質粒
0.001	0.005	0.074	0.42	2.0	4.76		75

備考 CLAY and SILT

$D_{75} = 0.013$
 $D_{50} = 0.0034$
 $D_{25} = -$

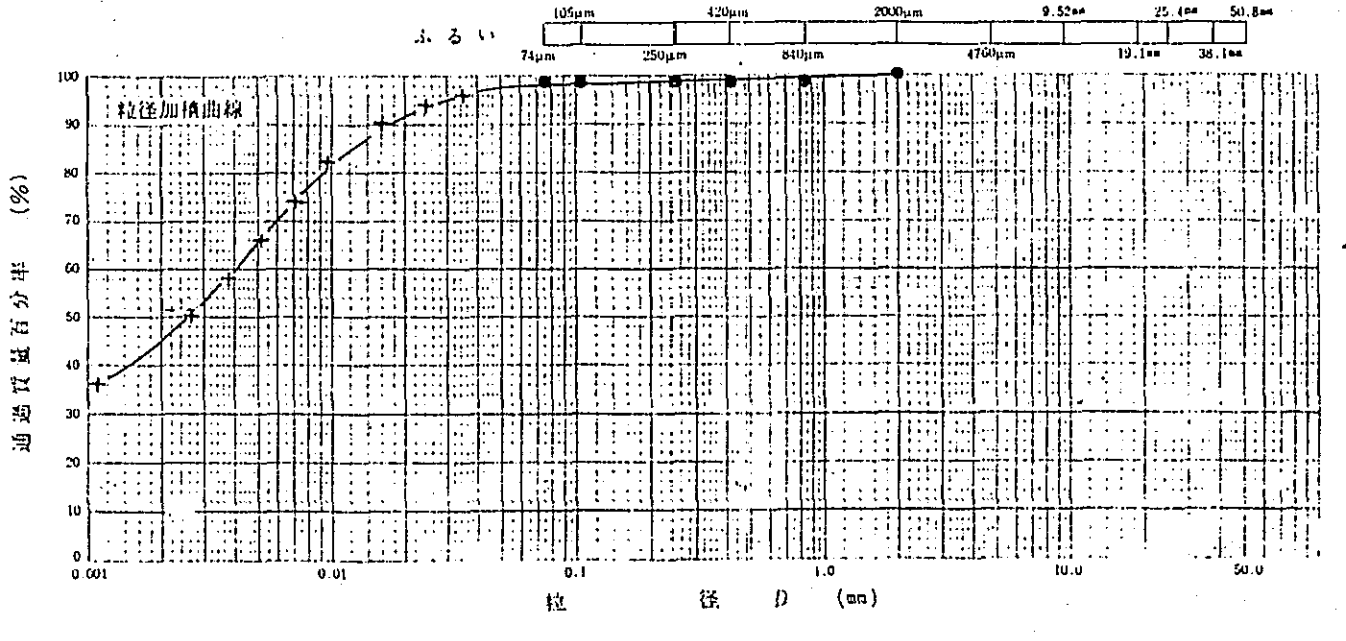
注) コロイド分を含む

Table 2. 3-3 (33)

調査名・調査地点 BOTTOM MATERIAL (Discharge Stat.) ST. F-3 試験年月日 6年26月1989日
 7th Stage (Sampled on 26th Apr. 1989) 試験者 ANDY / ENDANG

試料番号 深さ	No. (mm)		No. (mm)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふるい分け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.98	0.84	
	0.42	99.97	0.42	
	0.25	99.96	0.25	
比重浮上	0.105	99.66	0.105	
	0.074	99.40	0.074	
	0.0355	96.4		
	0.0254	94.4		
	0.0163	90.4		
	0.0097	82.4		
	0.0071	74.3		
	0.0052	66.3		
0.0038	58.3			
0.0027	50.2			
0.0011	36.2			

試料番号 深さ	No. (mm)	No. (mm)
4.76mm以上の粒子 %		
細礫分 (4.76~2mm) %		
粗砂分 (2~0.42mm) %	0.03	
細砂分 (0.42~0.074mm) %	0.57	
シルト分 (0.074~0.005mm) %	35.4	
粘土分 (0.005mm以下) %	64	
コロイド分 (0.001mm以下) %	36.2	
200μmふるい通過質量百分率 %	100	
420μmふるい通過質量百分率 %	99.97	
74μmふるい通過質量百分率 %	99.40	
最大粒径 mm		
60% 粒径 mm	0.0042	
30% 粒径 mm		
10% 粒径 mm		
均等係数 U_c		
曲率係数 U_s		
土粒子の比重 G_s	2.62	
使用した分散剤		



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	石
0.001	0.005	0.074	0.42	2.0	4.76	75	

備考 CLAY and SILT $D_{75} = 0.0073$
 $D_{50} = 0.0025$
 $D_{25} = -$ (注) コロイド分を含む

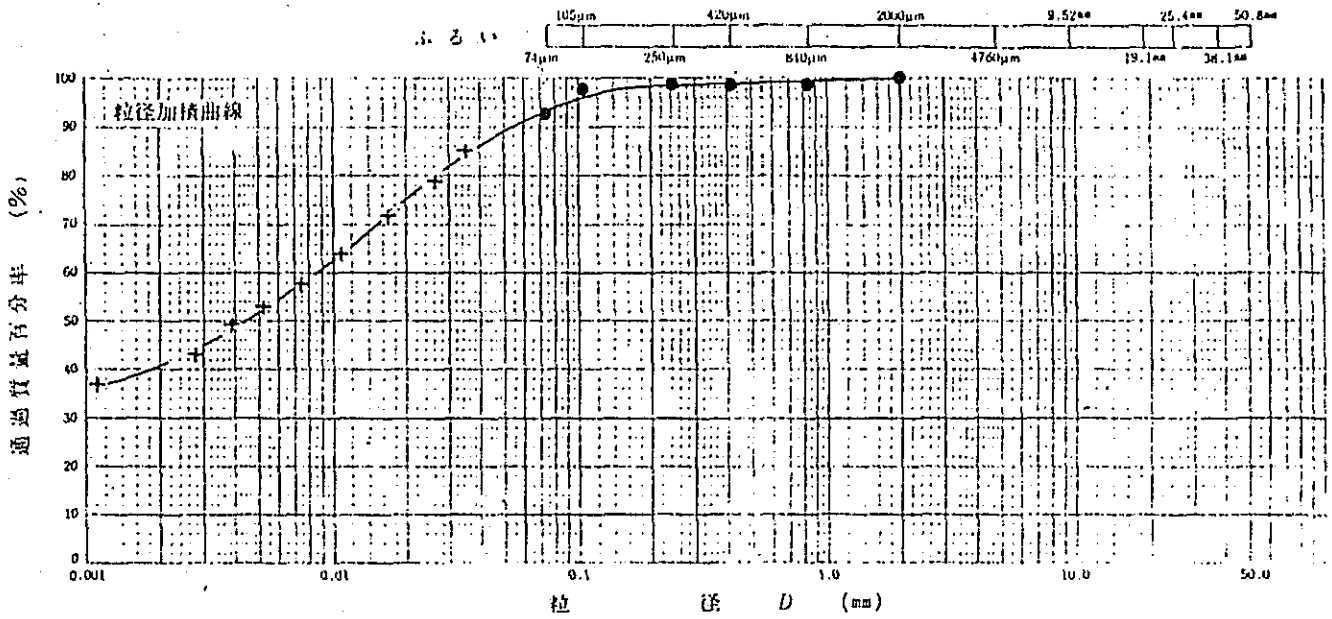
Table 2. 3-3 (32)

JIS A 1204 土の粒度試験結果 報告用紙

調査名・調査地点 BOTTOM MATERIAL (Discharge Stat.), STAT. F-2 試験年月日 6 年 26 月 1989 11
 7th Stage (Sampled on 26th Apr. 1989) 試験者 ANDY / ENDANG

試料番号 深さ	No. (m - m)		No. (m - m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふ る い 分 け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.99	0.84	
	0.42	99.98	0.42	
	0.25	99.96	0.25	
比 重 浮 ひ う	0.105	98.87	0.105	
	0.074	93.69	0.074	
	0.0366	85.2		
	0.0266	79.5		
	0.0174	72.0		
	0.0104	64.4		
	0.0075	58.7		
	0.0054	53.0		
う	0.0039	49.3		
	0.0028	43.6		
	0.0011	37.9		

試料番号 深さ	No. (m - m)	No. (m - m)
4.76mm以上の粒子 %		
細砂分 (4.76 - 2mm) %		
粗砂分 (2 - 0.42mm) %	0.02	
細砂分 (0.42 - 0.074mm) %	6.29	
シルト分 (0.074 - 0.005mm) %	41.69	
粘土分 (0.005mm以下) %	52	
コロイド分 (0.001mm以下) %	37.9	
2000µmふるい通過質量百分率 %	100	
420µmふるい通過質量百分率 %	99.98	
75µmふるい通過質量百分率 %	93.69	
最大粒径 mm		
60 % 粒径 mm	0.0084	
30 % 粒径 mm		
10 % 粒径 mm		
均等係数 U_c		
曲率係数 U_c'		
土粒子の比重 G_s	2.57	
使用した分散剤		



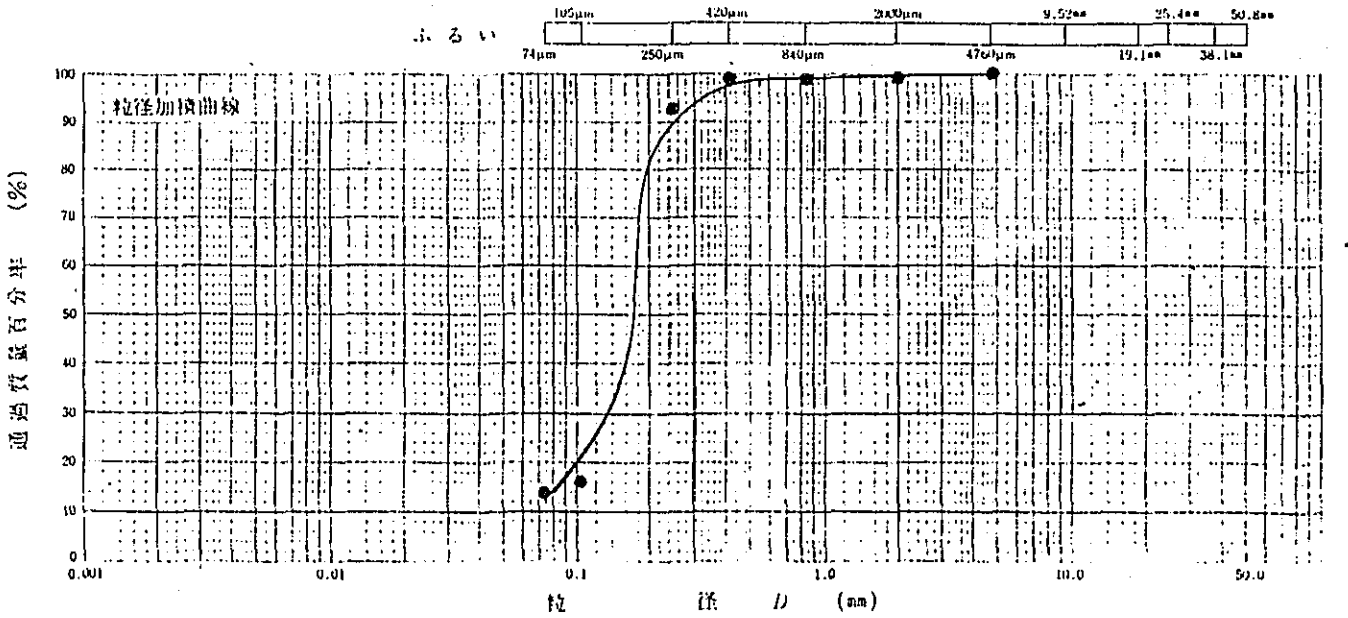
コロイド	粘土	シルト	細砂	粗砂	細砂	粗砂	細砂	粗砂	細砂	粗砂
0.001	0.005	0.074	0.42	2.0	4.76	75				

備考 CLAY and SILT $D_{75} = 0.02$
 $D_{50} = 0.0043$
 $D_{25} = -$ 注) コロイド分を含む

Table 2. 3-3 (31)

調査名・調査地点 BOTTOM MATERIAL (Discharge Stat.), STAT. F-4 試験年月日 6 年 26 月 1989H
 7th Stage (Sampled on 26th Apr. 1989) 試験者 ANDY ENDANG

試料番号 深さ	No. (m ~ m)		No. (m ~ m)		試料番号 深さ	No. (m ~ m)		No. (m ~ m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %		粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふるい分け	50.8		50.8		4.76mm以上の粒子 %				
	38.1		38.1		細礫分 (4.76 ~ 2mm) %	0.04			
	25.4		25.4		粗砂分 (2 ~ 0.42mm) %	0.30			
	19.1		19.1		細砂分 (0.42 ~ 0.074mm) %	85.05			
	9.52		9.52		シルト分 (0.074 ~ 0.005mm) %	14.61			
	4.76	100	4.76		粘土分 (0.005mm以下) %				
	2.00	99.96	2.00		コロイド分 (0.001mm以下) %				
	0.84	99.82	0.84		2000µmふるい通過質量百分率 %	99.96			
	0.42	99.66	0.42		420µmふるい通過質量百分率 %	99.66			
	0.25	93.35	0.25		75µmふるい通過質量百分率 %	14.61			
0.105	16.55	0.105		最大粒径 mm					
0.074	14.61	0.074		60% 粒径 mm	0.18				
比重浮上					30% 粒径 mm	0.134			
					10% 粒径 mm				
					均等係数 U_c				
					曲率係数 U'_c				
					土粒子の比重 G_s	2.66			
				使用した分散剤					



コロイド	粘土	シルト	細砂	粗砂	細礫	礫
0.001	0.005	0.074	0.42	2.0	4.75	75

備考 fine SAND $D_{75} = 0.185$
 $D_{50} = 0.17$
 $D_{25} = 0.12$ 注) コロイド分を含む

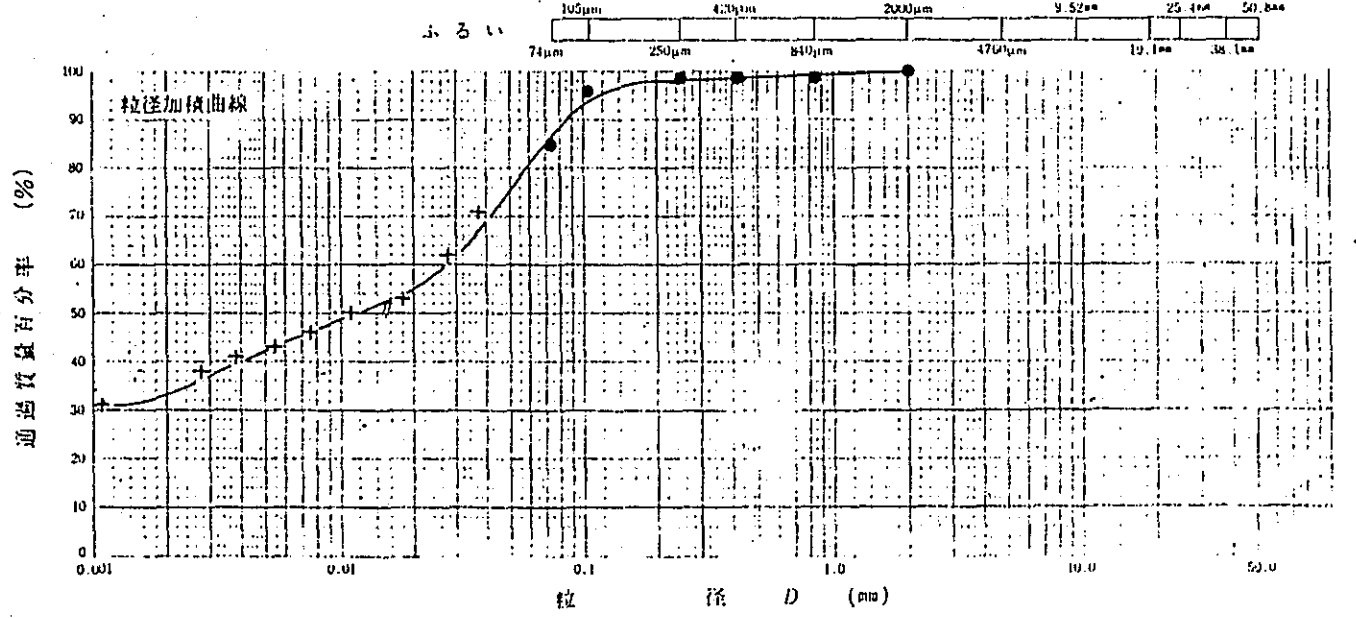
Table 2. 3-3 (35)

JIS A 1204 土の粒度試験結果 報告用紙

調査名・調査地点: BOTTOM MATERIAL (Discharge Stat.), STAT. F-5
 試験年月日: 6 年 26 月 1989
 7th Stage (Sampled on 26th Apr. 1989) 試験者: ANDY / ENDANG

試料番号 深さ	No. (m ~ m)		No. (m ~ m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふるい分け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.99	0.84	
	0.42	99.98	0.42	
	0.25	99.86	0.25	
比重浮上	0.105	96.46	0.105	
	0.074	85.78	0.074	
	0.0379	71.1		
	0.0280	62.4		
	0.0184	53.8		
	0.0108	50.3		
	0.0077	46.8		
	0.0055	43.4		
0.0039	41.6			
0.0028	38.2			
0.0011	31.2			

試料番号 深さ	No. (m ~ m)	No. (m ~ m)
4.76mm以上の粒子	%	
細礫分 (4.76 ~ 2mm)	%	
粗砂分 (2 ~ 0.42mm)	0.02	
細砂分 (0.42 ~ 0.074mm)	14.20	
シルト分 (0.074 ~ 0.005mm)	43.78	
粘土分 (0.005mm以下)	42	
コロイド分 (0.001mm以下)	31.2	
2000μmふるい通過質量百分率 %	80	
420μmふるい通過質量百分率 %	99.98	
74μmふるい通過質量百分率 %	85.78	
最大粒径 mm		
60% 粒径 mm	0.026	
30% 粒径 mm		
10% 粒径 mm		
均等係数 U_c		
曲率係数 U_c'		
土粒子の比重 G_s	2.60	
使用した分散剤		



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	砂礫
0.001	0.005	0.074	0.42	2.0	4.75	75	75

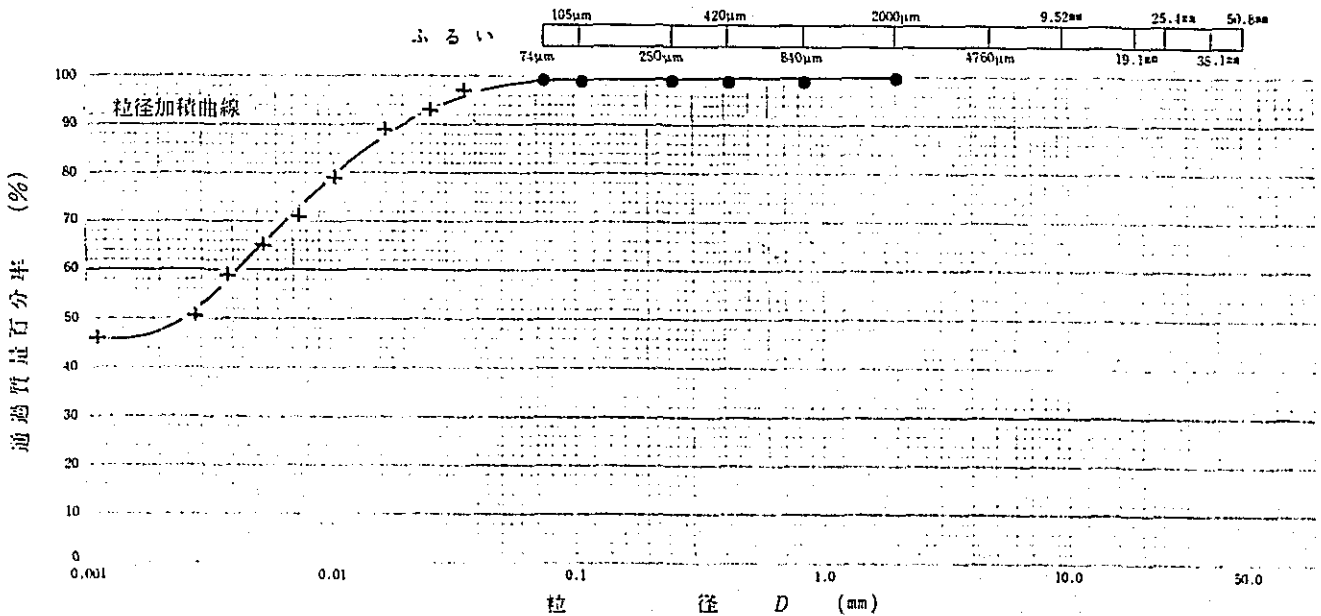
備考 CLAY and SILT with some sand.
 $D_{75} = 0.05$
 $D_{50} = 0.012$
 $D_{25} = -$ (注) コロイド分を含む

Table 2. 3-3 (36)

調査名・調査地点 **BOTTOM MATERIAL SURVEY** 試験年月日 **7 年 13 月 1989 日**
STAT. F-1 (Discharge Stat.)
 8th Stage (Sampled on 25th May, 1989) 試験者 **ANDY / ERDANG**

試料番号 深さ	No. Sta. F1 (m ~ m)		No. (m ~ m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふるい分け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.99	0.84	
	0.42	99.98	0.42	
	0.25	99.90	0.25	
比重浮き	0.105	99.84	0.105	
	0.074	99.69	0.074	
	0.0361	97.7		
	0.0260	93.6		
	0.0168	89.5		
	0.0101	79.4		
	0.0074	71.2		
0.0053	65.1			
0.0038	59.0			
0.0028	50.9			
0.0011	46.8			

試料番号 深さ	No. Sta. F (m ~ m)	No. (m ~ m)
4.76mm以上の粒子		
細礫分 (4.76 ~ 2 mm)		
粗砂分 (2 ~ 0.42 mm)	0.02	
細砂分 (0.42 ~ 0.074 mm)	0.29	
シルト分 (0.074 ~ 0.005 mm)	35.69	
粘土分 ^注 (0.005 mm以下)	64	
コロイド分(0.001 mm以下)	46.8	
2000µmふるい通過質量百分率 %	100	
420µmふるい通過質量百分率 %	99.98	
74µmふるい通過質量百分率 %	99.69	
最大粒径 mm		
60 % 粒径 mm	0.0042	
30 % 粒径 mm		
10 % 粒径 mm		
均等係数 U _c		
曲率係数 U _s		
土粒子の比重 G _s	2.58	
使用した分散剤		



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	岩石質
0.001	0.005	0.074	0.42	2.0	4.76		75

備考 **SILT and CLAY trace sand** D 75 = 0.0084
D 50 = 0.0025

注) コロイド分を含む

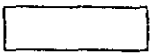
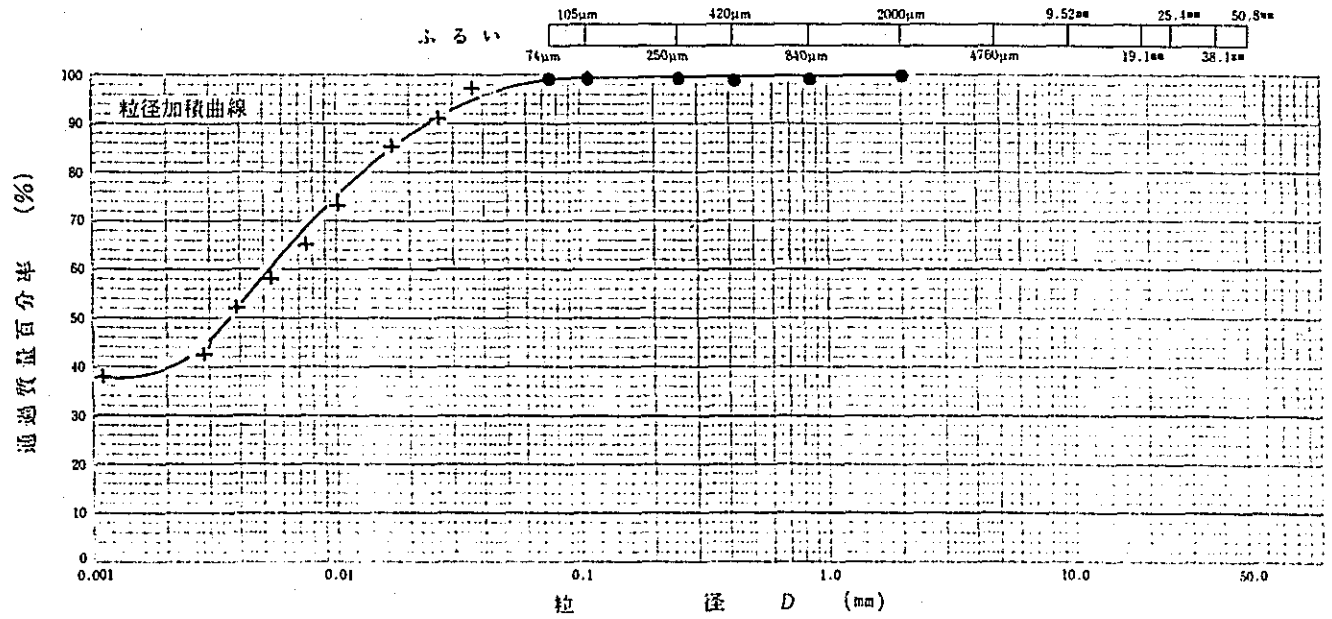


Table 2. 3-3 (37)

調査名・調査地点 BOTTOM MATERIAL SURVEY (STAT. ~~at~~ Discharge Stat.) 試験年月日 7 年 13 月 1989 日
 8th Stage (Sampled on 26th May, 1989) 試験者 ANDY / ENDANG

試料番号 深さ	No. Sta. F2*		No.	
	(m - m)		(m - m)	
	粒 径 mm	質量百分率 %	粒 径 mm	質量百分率 %
ふ る い 分 け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.99	0.84	
	0.42	99.97	0.42	
	0.25	99.93	0.25	
比 重 浮 ひ よ う	0.105	99.87	0.105	
	0.074	99.63	0.074	
	0.0361	97.6		
	0.0263	91.5		
	0.0171	85.4		
	0.0104	73.2		
	0.0075	65.0		
	0.0054	58.9		
0.0039	52.9			
0.0028	42.7			
0.0011	38.7			

試料番号 深さ	No. Sta. F2*	No.
	(m - m)	(m - m)
4.76mm以上の粒子	%	
細礫分 (4.76 - 2 mm)	%	
粗砂分 (2 - 0.42 mm)	0.03	
細砂分 (0.42 - 0.074 mm)	0.34	
シルト分 (0.074 - 0.005 mm)	41.63	
粘土分 ^{注)} (0.005 mm以下)	58	
コロイド分 (0.001 μm以下)	38.7	
2000 μmふるい通過質量百分率	100	
420 μmふるい通過質量百分率	99.97	
74 μmふるい通過質量百分率	99.63	
最大粒径 mm		
60 % 粒径 mm	0.0053	
30 % 粒径 mm		
10 % 粒径 mm		
均等係数 U _c		
曲率係数 U _s		
土粒子の比重 G _s	2.58	
使用した分散剤		



コロイド	粘 土	シ ル ト	細 砂	粗 砂	細 礫	礫	岩石質材
0.001	0.005	0.074	0.42	2.0	4.76	75	

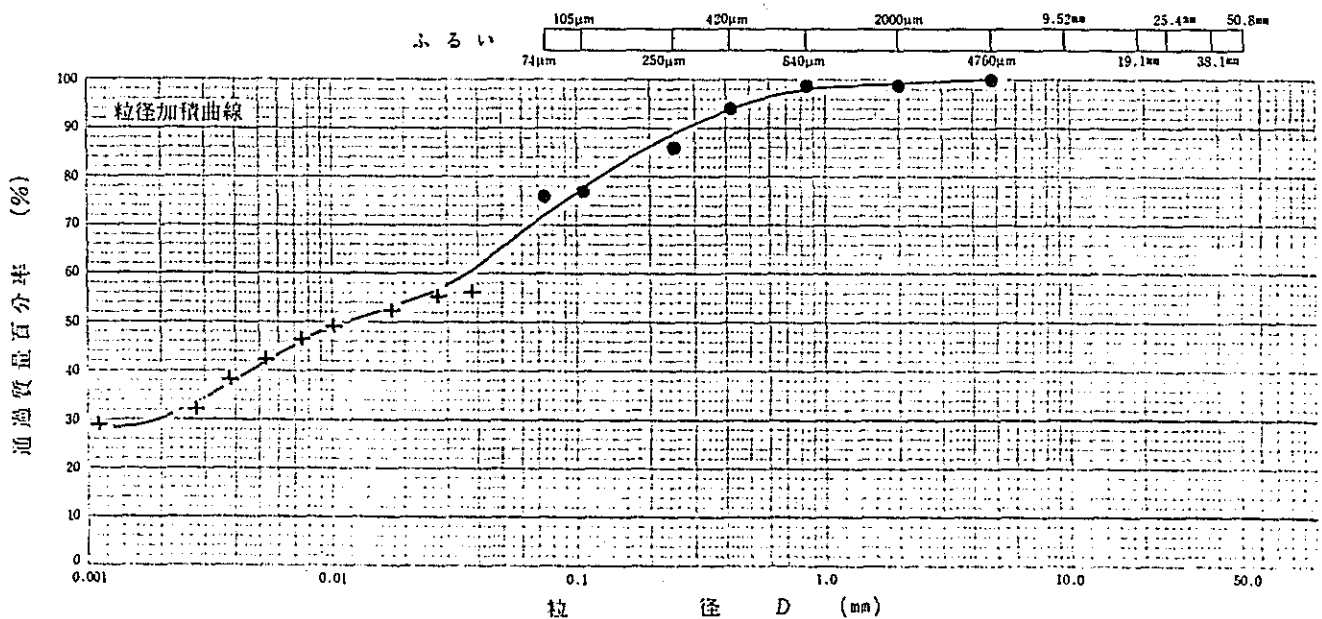
備考 **SILT and CLAY trace sand** D₇₅ = 0.0105 D₅₀ = 0.0036
 注) コロイド分を含む

Table 2. 3-3 (38)

JIS A 1204	土の粒度試験結果	報告用紙
------------	----------	------

調査名・調査地点 BOTTOM MATERIAL SURVEY 試験年月日 7 年 13 月 1989 日
STAT. F-3 (Discharge)
 8th Stage (Sampled on 25th May. 1989) 試験者 ANDY / ENDANG

試料番号 深さ	No. Sta. F ₃		No.		試料番号 深さ	No. Sta. F ₂		No.	
	(m - m)		(m - m)			(m - m)		(m - m)	
ふるい	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %	4.76mm以上の粒子 %				
	50.8		50.8		細礫分 (4.76 ~ 2 mm) %	0.18			
	38.1		38.1		粗砂分 (2 ~ 0.42 mm) %	5.10			
	25.4		25.4		細砂分 (0.42 ~ 0.074 mm) %	18.11			
	19.1		19.1		シルト分 (0.074 ~ 0.005 mm) %	35.61			
	9.52		9.52		粘土分 ^注 (0.005 mm以下) %	41			
	4.76	100	4.76		コロイド分 (0.001 mm以下) %	29.1			
	2.00	99.82	2.00		2000μmふるい通過質量百分率 %	99.82			
	0.84	99.32	0.84		420μmふるい通過質量百分率 %	94.72			
	0.42	94.72	0.42		74μmふるい通過質量百分率 %	76.61			
0.25	86.55	0.25		最大粒径 mm					
0.105	77.13	0.105		60 % 粒径 mm	0.037				
0.074	76.61	0.074		30 % 粒径 mm	0.002				
比重 浮 ひ ょう	0.0387	56.7			10 % 粒径 mm				
	0.0276	55.2			均等係数 U _c				
	0.0177	52.1			曲率係数 U _s				
	0.0103	49.1			土粒子の比重 G _s	2.64			
	0.0074	46.0			使用した分散剤				
	0.0053	42.9							
	0.0038	38.3							
	0.0028	32.2							
	0.0011	29.1							



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	岩石質
0.001	0.005	0.074	0.42	2.0	4.76		75

備考 **SILT and CLAY trace sand** D₇₅ = 0.091
 D₅₀ = 0.0118
 注) コロイド分を含む

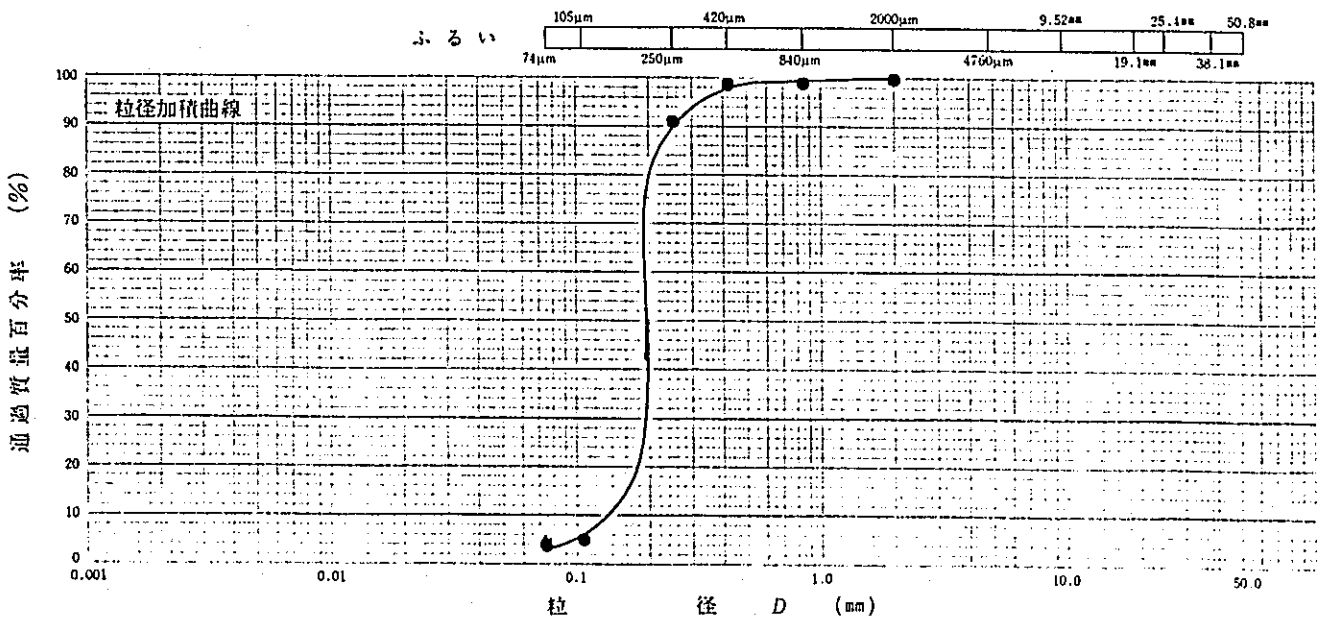
Table 2. 3-3 (39)

JIS A 1204	土の粒度試験結果	報告用紙
------------	----------	------

調査名・調査地点 BOTTOM MATERIAL SURVEY
STAT. F-4 (Discharge) 試験年月日 7 年 13 月 1989 日
 8th Stage (Sampled on 25th May. 1989) 試験者 ANDY / ENDANG

試料番号 深さ	No. Sta. F4 (m ~ m)		No. (m ~ m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふ る い 分 け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.97	0.84	
	0.42	99.87	0.42	
	0.25	91.19	0.25	
比 重 浮 ひ よ う	0.105	5.69	0.105	
	0.074	4.41	0.074	

試料番号 深さ	No. Sta. F3 (m ~ m)	No. (m ~ m)
4.76mm以上の粒子		
細礫分 (4.76 ~ 2 mm) %		
粗砂分 (2 ~ 0.42 mm) %	0.13	
細砂分 (0.42 ~ 0.074 mm) %	95.46	
シルト分 (0.074 ~ 0.005 mm) %	4.41	
粘土分 ^(注) (0.005 mm以下) %		
コロイド分 (0.001 mm以下) %		
2000µmふるい通過質量百分率 %	100	
420µmふるい通過質量百分率 %	99.87	
74µmふるい通過質量百分率 %	4.41	
最大粒径 mm		
60 % 粒径 mm	0.21	
30 % 粒径 mm	0.21	
10 % 粒径 mm	0.12	
均等係数 U_c	1.75	
曲率係数 U_c'	1.75	
土粒子の比重 G_s	2.73	
使用した分散剤		



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	砕石質材料
0.001	0.005	0.074	0.42	2.0	4.76	75	

備考
 Fine SAND trace silt
 D 75 = 0.1942
 D 50 = 0.1940
 D 25 = 0.184
 (注) コロイド分を含む

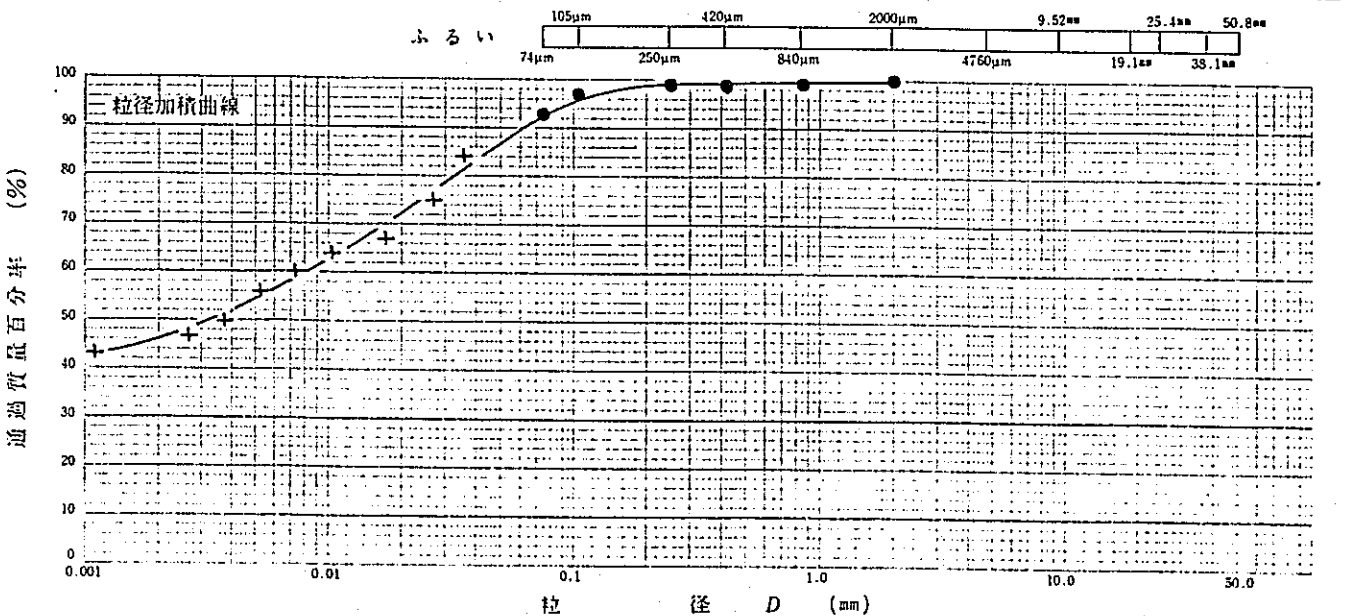
Table 2.3-3 (40)

JIS A 1204	土の粒度試験結果	報告用紙
------------	----------	------

調査名・調査地点 BOTTOM MATERIAL SURVEY 試験年月日 7 年 13 月 1989 日
STAT. F-5 (Discharge)
 8th Stage (Sampled on 25th May.1989) 試験者 ANDY / ENDANG

試料番号 深さ	No. Sta. F5		No.	
	(m ~ m)		(m ~ m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふるい	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.98	0.84	
	0.42	99.96	0.42	
	0.25	99.88	0.25	
比重	0.105	97.42	0.105	
	0.074	93.33	0.074	
	0.0366	84.9		
	0.0270	75.5		
	0.0177	67.9		
	0.0104	64.1		
	0.0074	60.4		
	0.0053	56.6		
ひょう	0.0038	50.9		
	0.0027	47.2		
	0.0011	43.4		

試料番号 深さ	No. Sta. F4		No.	
	(m ~ m)		(m ~ m)	
4.76mm以上の粒子	%			
細礫分 (4.76 ~ 2mm)	%			
粗砂分 (2 ~ 0.42mm)	%	0.04		
細砂分 (0.42 ~ 0.074mm)	%	6.63		
シルト分 (0.074 ~ 0.005mm)	%	39.33		
粘土分 (0.005mm以下)	%	54		
コロイド分 (0.001mm以下)	%	43.4		
2000μmふるい通過質量百分率	%	100		
420μmふるい通過質量百分率	%	99.96		
74μmふるい通過質量百分率	%	93.33		
最大粒径 mm				
60 % 粒径 mm		0.008		
30 % 粒径 mm				
10 % 粒径 mm				
均等係数 U _c				
曲率係数 U _s				
土粒子の比重 G _s		2.59		
使用した分散剤				



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	岩石質材料
0.001	0.005	0.074	0.42	2.0	4.76	75	

備考
 SILT and CLAY trace sand
 D 75 = 0.024
 D 50 = 0.0032
 注) コロイド分を含む

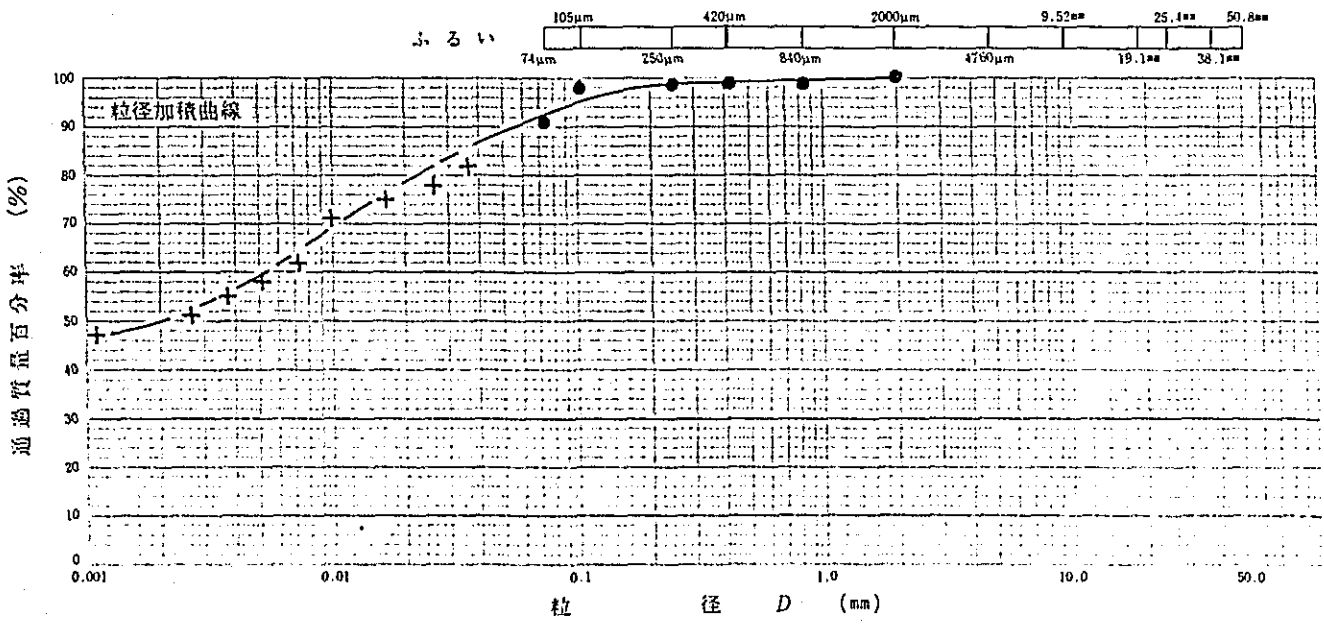
Table 2.3-3 (41)

JIS A 1204 土の粒度試験結果 報告用紙

調査名・調査地点 BOTTOM MATERIAL SURVEY STAT. F-(Discharge Stat.) 試験年月日 8 年 15 月 1989日
 9th Stage (Sampled on 20th June 1989) 試験者 Andy & Endang

試料番号 深さ	No. St.F. (m ~ m)		No. St.F. (m ~ m)	
	粒 径 mm	質量百分率 %	粒 径 mm	質量百分率 %
ふ る い 分 け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.98	0.84	
	0.42	99.96	0.42	
	0.25	99.88	0.25	
比 重 浮 ひ よ う	0.105	98.18	0.105	
	0.074	91.72	0.074	
	0.0360	82.6		
	0.0259	78.9		
	0.0165	75.3		
	0.0098	71.6		
	0.0072	62.4		
	0.0051	58.7		
0.0037	55.1			
0.0026	51.4			
0.0011	47.7			

試料番号 深さ	No. St.F. (m ~ m)	No. St.F. (m ~ m)
4.76mm以上の粒子 %		
細礫分 (4.76 ~ 2mm) %		
粗砂分 (2 ~ 0.42mm) %	0.04	
細砂分 (0.42 ~ 0.074mm) %	8.24	
シルト分 (0.074 ~ 0.005mm) %	31.72	
粘土分 ^注 (0.005mm以下) %	60	
コロイド分(0.001mm以下) %	47.7	
2000μmふるい通過質量百分率 %	100	
420μmふるい通過質量百分率 %	99.95	
74μmふるい通過質量百分率 %	91.72	
最大粒径 mm		
60 % 粒径 mm	0.0054	
30 % 粒径 mm		
10 % 粒径 mm		
均等係数 U _c		
曲率係数 U _s		
土粒子の比重 G _s	2.64	
使用した分散剤		



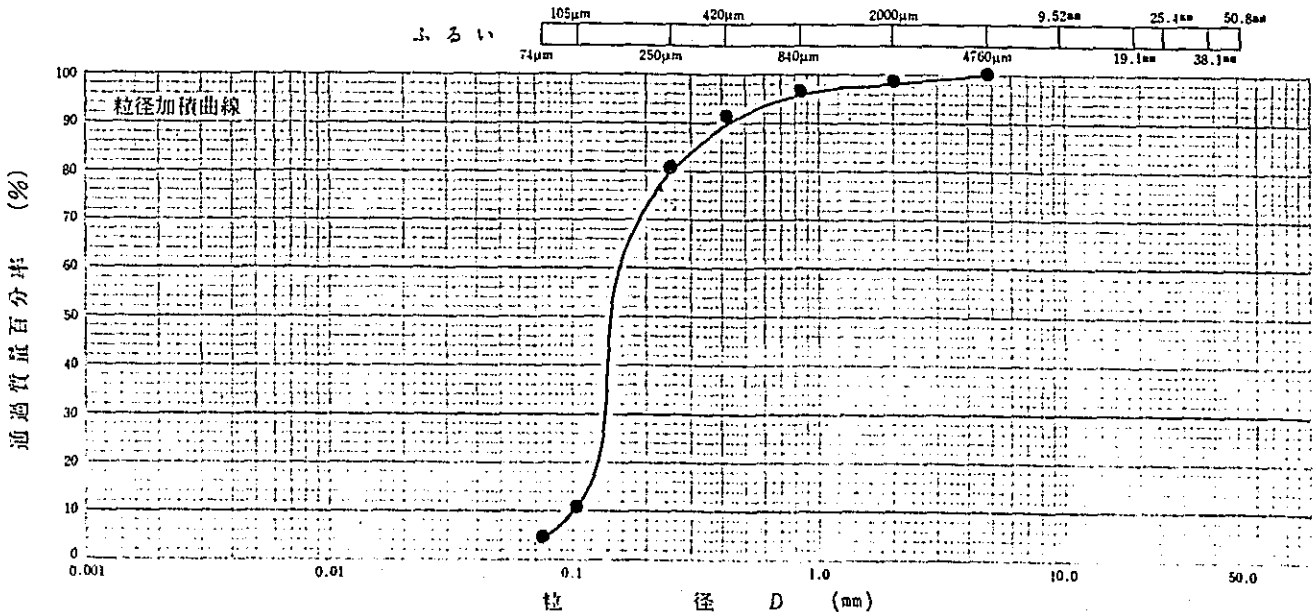
コロイド	粘 土	シ ル ト	細 砂	粗 砂	細 礫	礫	岩石質
0.001	0.005	0.074	0.42	2.0	4.76	75	

備考 Silty CLAY trace Sand D 75 = 0.015 D 50 = 0.002 注) コロイド分を含む

Table 2. 3-3 (42)

調査名・調査地点 (BOTTOM MATERIAL SURVEY STAT. F-2 (Discharge Stat.)) 試験年月日 8 年 15 月 1989 日
 9th Stage (Sampled on 20th June 1989) 試験者 Andy W. Endang

試料番号 添さ	No. St. F2 (m ~ m)		No. (m ~ m)		試料番号 添さ	No. St. F1 (m ~ m)		No. (m ~ m)	
	粒 径 mm	質量百分率 %	粒 径 mm	質量百分率 %		粒 径 mm	質量百分率 %	粒 径 mm	質量百分率 %
ふ る い 分 け	4.76mm以上の粒子 %		4.76		4.76mm以上の粒子 %				
	50.8		50.8		細礫分 (4.75 ~ 2mm) %	0.08			
	38.1		38.1		粗砂分 (2 ~ 0.42mm) %	7.25			
	25.4		25.4		細砂分 (0.42 ~ 0.074mm) %	87.10			
	19.1		19.1		シルト分 (0.074 ~ 0.005mm) %	5.57			
	9.52		9.52		粘土分 (0.005mm以下) %	-			
	4.76	100	4.76		コロイド分 (0.001mm以下) %	-			
	2.00	99.92	2.00		2000μmふるい通過質量百分率 %	99.92			
	0.84	97.97	0.84		420μmふるい通過質量百分率 %	92.67			
	0.42	92.67	0.42		74μmふるい通過質量百分率 %	5.57			
0.25	81.39	0.25							
0.105	11.29	0.105		最大粒径 mm					
0.074	5.57	0.074		60 % 粒径 mm	0.16				
				30 % 粒径 mm	0.14				
				10 % 粒径 mm	0.10				
				均等係数 U_c	1.6				
				曲率係数 U_c'	1.22				
				土粒子の比重 G_s	2.70				
				使用した分散剤					



コロイド	粘 土	シ ル ト	細 砂	粗 砂	細 礫	礫	岩石質材料
0.001	0.005	0.074	0.42	2.0	4.76	75	

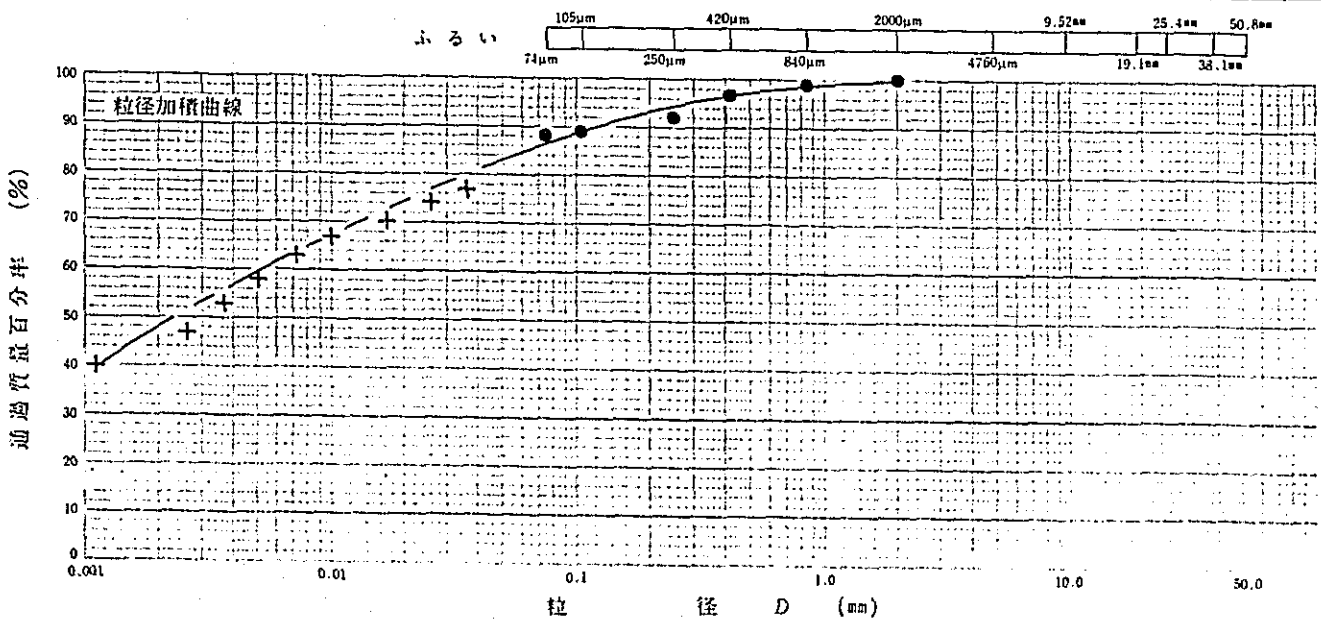
備考 Fine SAND trace Silt
 D 75 = 0.2102
 D 50 = 0.141
 D 25 = 0.134
 注) コロイド分を含む

Table 2. 3-3 (43)

JIS A 1204	土の粒度試験結果	報告用紙
------------	----------	------

調査名・調査地点 BOTTOM MATERIAL SURVEY
STAT. F-3 (Discharge Stat.) 試験年月日 8 年 15 月 1989 日
 9th Stage (Sampled on 20th June 1989) 試験者 Andy & Endang

試料番号 深さ	No. <u>St. F.3</u> (m ~ m)		No. (m ~ m)		試料番号 深さ	No. <u>St. F.2</u> (m ~ m)		No. (m ~ m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %		粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふ る い 分 け	4.76		4.76		4.76mm以上の粒子 %				
	50.8		50.8		細礫分 (4.76~2mm)%				
	38.1		38.1		粗砂分 (2~0.42mm)%	2.06			
	25.4		25.4		細砂分 (0.42~0.074mm)%	9.48			
	19.1		19.1		シルト分 (0.074~0.005mm)%	28.46			
	9.52		9.52		粘土分 ^注 (0.005mm以下)%	60			
	4.76		4.76		コロイド分(0.001mm以下)%	40.7			
	2.00	100	2.00		2000μmふるい通過質量百分率 %	100			
	0.84	99.06	0.84		420μmふるい通過質量百分率 %	97.94			
	0.42	97.06	0.42		74μmふるい通過質量百分率 %	88.66			
比 重 浮 ひ よ う	0.25	92.58	0.25		最大粒径 mm				
	0.105	89.20	0.105		60 % 粒径 mm	0.0052			
	0.074	88.46	0.074		30 % 粒径 mm				
	0.0364	77.9			10 % 粒径 mm				
	0.0262	74.3			均等係数 U _c				
	0.0168	70.8			曲率係数 U _s				
	0.0098	67.3			土粒子の比重 G _s	2.66			
	0.0074	63.7			使用した分散剤				
	0.0051	58.4							
	0.0037	53.1							



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	岩石質材料
0.001	0.005	0.074	0.42	2.0	4.76	75	75

備考 Silt CLAY trace Sand
 D 75 = 0.021
 D 50 = 0.0028

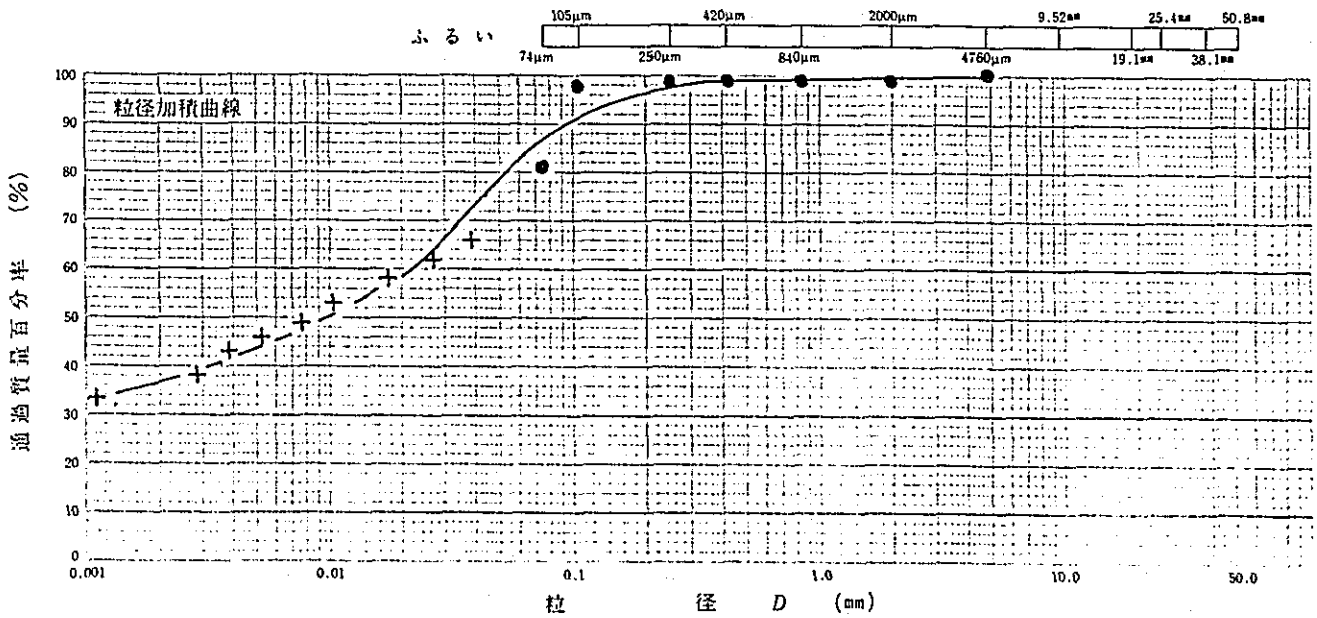
Table 2. 3-3 (4)

JIS A 1204	土の粒度試験結果	報告用紙
------------	----------	------

調査名・調査地点 BOTTOM MATERIAL SURVEY 試験年月日 8 年 15 月 1989 日
 STAT. F-4 (Discharge Stat.)
 9th Stage (Sampled on 20th June 1989) 試験者 Andy & Endang

試料番号 深さ	No. St. F.4 (m - m)		No. (m - m)	
	粒 径 mm	質量百分率 %	粒 径 mm	質量百分率 %
ふ る い 分 け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76	100	4.76	
	2.00	99.96	2.00	
	0.84	99.90	0.84	
	0.42	99.88	0.42	
	0.25	99.84	0.25	
比 重 浮 ひ よ う	0.105	98.45	0.105	
	0.074	84.95	0.074	
	0.0385	66.2		
	0.0275	62.9		
	0.0178	58.0		
	0.0103	53.0		
	0.0075	49.7		
	0.0054	46.4		
0.0039	43.1			
0.0028	38.1			
0.0011	33.1			

試料番号 深さ	No. St. F.3 (m - m)	No. (m - m)
4.76mm以上の粒子	%	
細礫分 (4.76 ~ 2mm)%	0.04	
粗砂分 (2 ~ 0.42mm)%	0.09	
細砂分 (0.42 ~ 0.074mm)%	17.93	
シルト分 (0.074 ~ 0.005mm)%	57.95	
粘土分 ^注 (0.005mm以下)%	44	
コロイド分(0.001mm以下)%	40.7	
2000μmふるい通過質量百分率 %	99.95	
420μmふるい通過質量百分率 %	99.88	
74μmふるい通過質量百分率 %	81.95	
最大粒径 mm		
60 % 粒径 mm	0.022	
30 % 粒径 mm		
10 % 粒径 mm		
均等係数 U _c		
曲率係数 U _s		
土粒子の比重 G _s	2.61	
使用した分散剤		



コロイド	粘 土	シルト	細 砂	粗 砂	細 礫	礫	岩石質 粒 料
0.001	0.005	0.074	0.42	2.0	4.76		75

備考 SILT and CLAY D 75 = 0.043
 D 50 = 0.0099
 注) コロイド分を含む

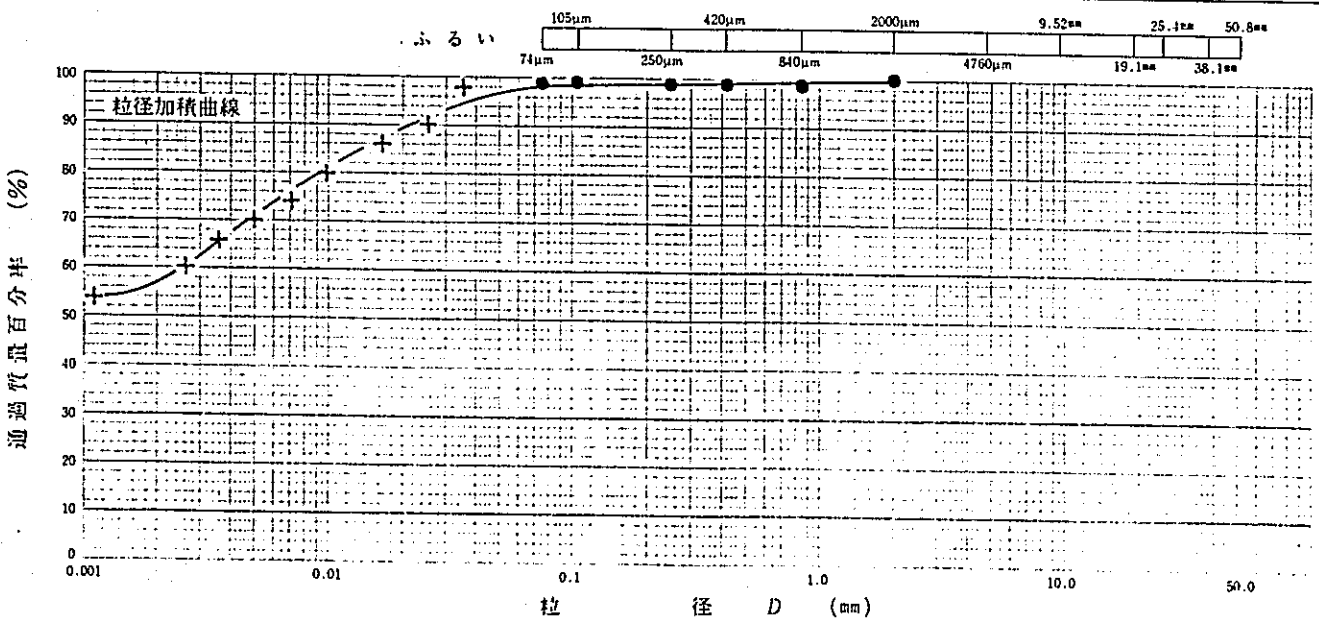
Table 2. 3-3 (45)

JIS A 1204	土の粒度試験結果	報告用紙
------------	----------	------

調査名・調査地点 BOTTOM MATERIAL SURVEY 試験年月日 8 年 15 月 1989 日
STAT. F-5 (Discharge Stat.)
 9th Stage (Sampled on 20th June 1989) 試験者 Andy & Erdang

試料番号 深さ	No. <u>SB.F.5</u> (<u> </u> m - <u> </u> m)		No. <u> </u> (<u> </u> m - <u> </u> m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふるい分け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.97	0.84	
	0.42	99.96	0.42	
	0.25	99.93	0.25	
比重浮上	0.105	99.87	0.105	
	0.074	99.61	0.074	
	0.0351	98.5		
	0.0259	90.6		
	0.0166	86.6		
	0.0098	80.5		
	0.0074	74.5		
0.0051	70.5			
0.0036	68.5			
0.0026	60.4			
0.0014	54.4			

試料番号 深さ	No. <u>SB.F.4</u> (<u> </u> m - <u> </u> m)	No. <u> </u> (<u> </u> m - <u> </u> m)
4.76mm以上の粒子 %		
細礫分 (4.76~2mm)%		
粗砂分 (2~0.42mm)%	0.04	
細砂分 (0.42~0.074mm)%	0.35	
シルト分 (0.074~0.005mm)%	29.51	
粘土分 (0.005mm以下)%	70	
コロイド分(0.001mm以下)%	54.4	
2000μmふるい通過質量百分率 %	100	
420μmふるい通過質量百分率 %	99.96	
74μmふるい通過質量百分率 %	99.61	
最大粒径 mm		
60 % 粒径 mm	0.0026	
30 % 粒径 mm		
10 % 粒径 mm		
均等係数 U_c		
曲率係数 U_s		
土粒子の比重 G_s	2.60	
使用した分散剤		



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	岩石質材料
0.001	0.005	0.074	0.42	2.0	4.76		75

備考 Silty CLAY trace Sand

D 75 = 0.0066

注) コロイド分を含む

Table 2.3-3 (46)

JIS A 1204

土の粒度試験結果

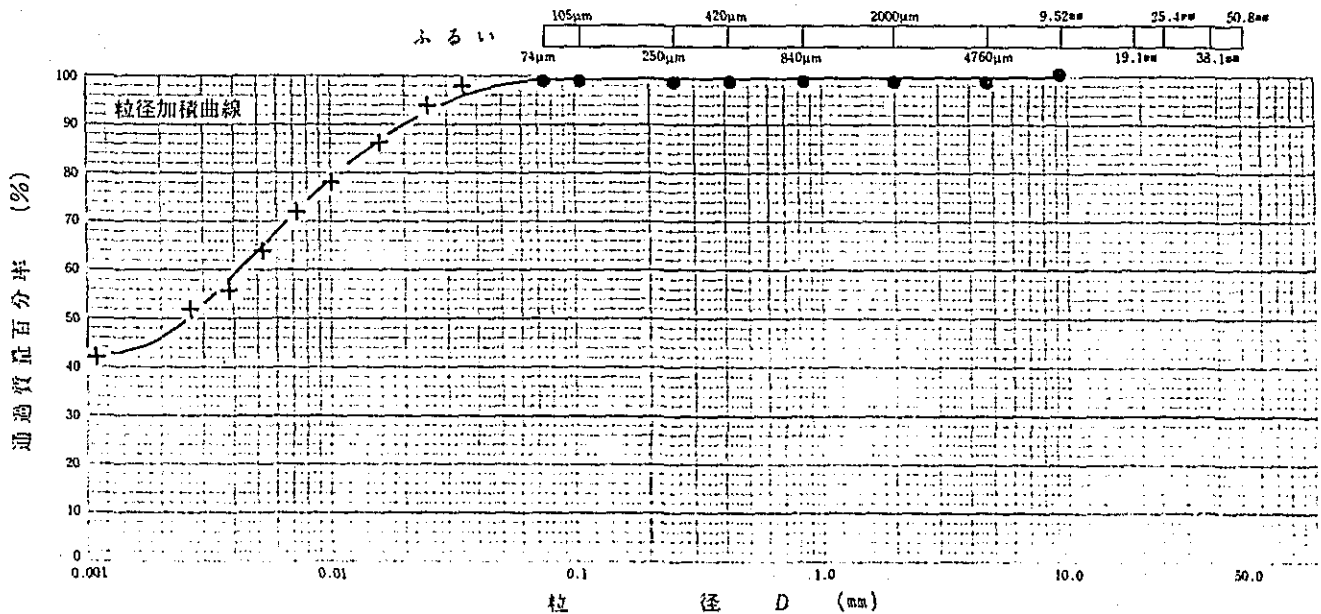
報告用紙

調査名・調査地点 BOTTOM MATERIAL SURVEY
STAT. F-1 (Discharge Stat.)
 10th Stage (Sampled on 14th July 1989)

試験年月日 8 年 12 月 1989 年
 試験者 Andy / Endang

試料番号 深さ	No. 9.52 (F)		No. ()	
	(m ~ m)	(m ~ m)	(m ~ m)	(m ~ m)
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふ る い 分 け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52	100	9.52	
	4.76	99.82	4.76	
	2.00	99.79	2.00	
	0.84	99.73	0.84	
	0.42	99.72	0.42	
	0.25	99.70	0.25	
比 重 浮 び よ う	0.105	99.48	0.105	
	0.074	99.24	0.074	
	0.0351	98.3		
	0.0254	94.3		
	0.0166	86.3		
	0.0108	78.2		
	0.0072	72.2		
	0.0052	64.2		
0.0038	56.2			
0.0027	52.2			
0.0011	42.1			

試料番号 深さ	No. (m ~ m)	No. (m ~ m)
4.76mm以上の粒子 %	0.18	
細礫分 (4.76 ~ 2mm) %	0.03	
粗砂分 (2 ~ 0.42mm) %	0.07	
細砂分 (0.42 ~ 0.074mm) %	0.48	
シルト分 (0.074 ~ 0.005mm) %	35.24	
粘土分 ^{注)} (0.005mm以下) %	64	
コロイド分(0.001mm以下) %	42.1	
2000μmふるい通過質量百分率 %	99.74	
420μmふるい通過質量百分率 %	99.72	
74μmふるい通過質量百分率 %	99.24	
最大粒径 mm		
60 % 粒径 mm	0.0042	
30 % 粒径 mm		
10 % 粒径 mm		
均等係数 U _c		
曲率係数 U _s		
土粒子の比重 G _s	2.63	
使用した分散剤		



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	岩石質材料
0.001	0.005	0.074	0.42	2.0	4.75	75	

備考

SILT and CLAY trace Sand

D 75 = 0.0084

D 50 = 0.0025

注) コロイド分を含む

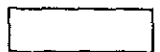


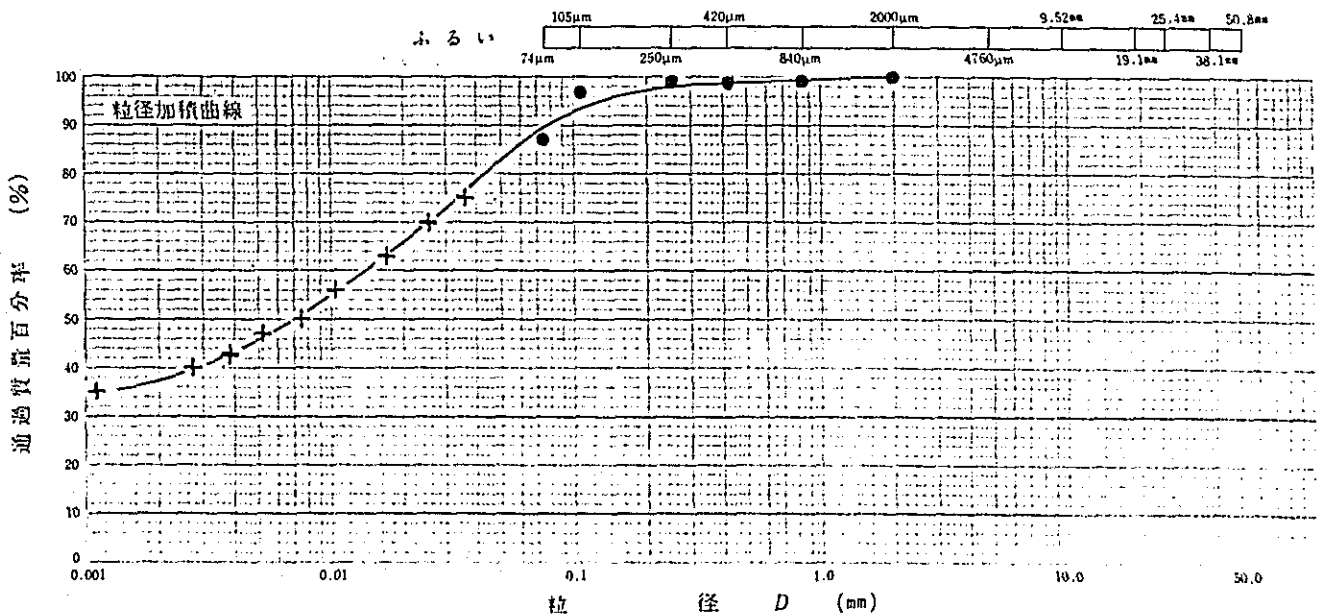
Table 2. 3-3 (47)

JIS A 1204	土の粒度試験結果	報告用紙
------------	----------	------

調査名・調査地点 BOTTOM MATERIAL SURVEY 試験年月日 8 年 12 月 1989 日
STAT. F-2. (Discharge Stat.)
 10th Stage (Sampled on 14th July 1989) 試験者 Andy / Endang

試料番号 深さ	No. <u>51, F2</u>		No. _____	
	(_____ m ~ _____ m)		(_____ m ~ _____ m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふるい分け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.96	0.84	
	0.42	99.95	0.42	
	0.25	99.93	0.25	
比重浮いよう	0.105	97.75	0.105	
	0.074	87.56	0.074	
	0.0366	75.3		
	0.0266	70.1		
	0.0174	63.1		
	0.0103	56.1		
	0.0075	50.8		
0.0053	47.3			
0.0038	43.8			
0.0027	40.3			
0.0011	35.1			

試料番号 深さ	No. _____	No. _____
	(_____ m ~ _____ m)	(_____ m ~ _____ m)
4.76mm以上の粒子 %		
細礫分 (4.76 ~ 2mm) %		
粗砂分 (2 ~ 0.42mm) %	0.05	
細砂分 (0.42 ~ 0.074mm) %	12.39	
シルト分 (0.074 ~ 0.005mm) %	41.56	
粘土分 ^注 (0.005mm以下) %	46	
コロイド分(0.001mm以下) %	36.1	
2000μmふるい通過質量百分率 %	100	
420μmふるい通過質量百分率 %	99.95	
74μmふるい通過質量百分率 %	89.56	
最大粒径 mm		
60 % 粒径 mm	0.014	
30 % 粒径 mm		
10 % 粒径 mm		
均等係数 U_c		
曲率係数 U_c'		
土粒子の比重 G_s	2.66	
使用した分散剤		



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	岩石質材料
0.001	0.005	0.074	0.42	2.0	4.76		75

備考

SILT and CLAY trace Sand

D 75 = 0.033

D 50 = 0.007

注) コロイド分を含む

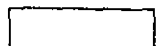
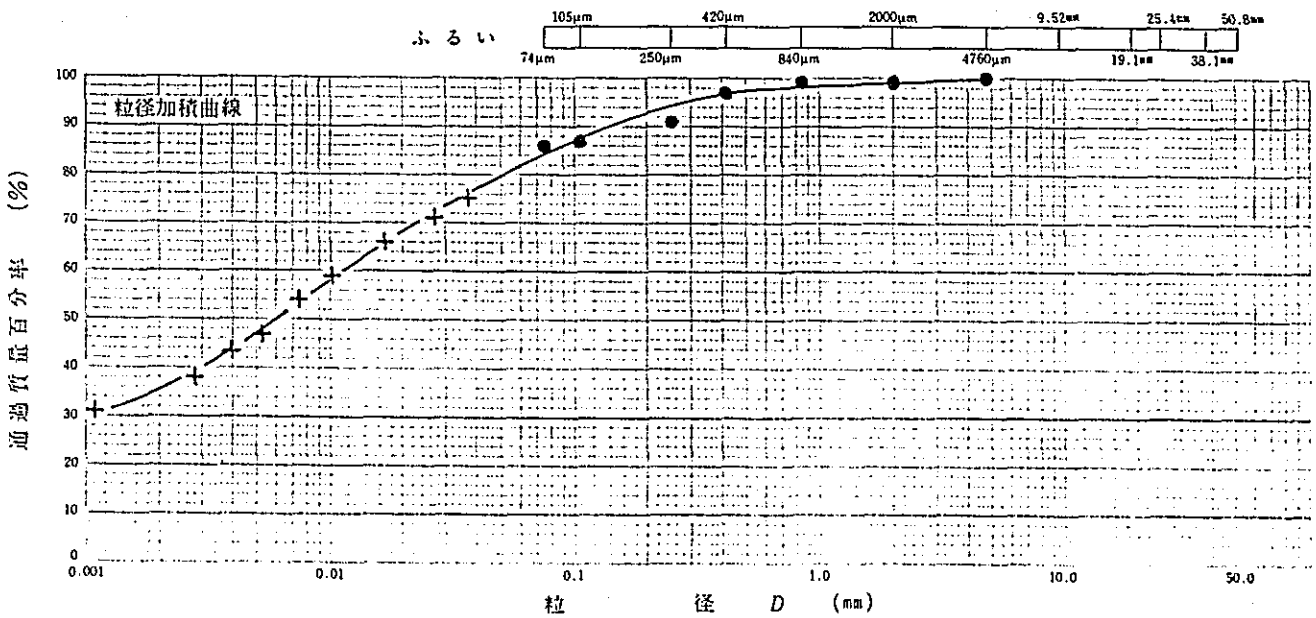


Table 2.3-3 (48)

調査名・調査地点 BOTTOM MATERIAL SURVEY STAT. F-3 (Discharge Stat.) 試験年月日 8 年 12 月 1989 日
 10th Stage (Sampled on 14th JULY 1989) 試験者 Andy / Endang

試料番号 深さ	No. S.F. 3 (m - m)		No. (m - m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふるい分け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76	100	4.76	
	2.00	99.99	2.00	
	0.84	99.59	0.84	
	0.42	97.34	0.42	
	0.25	91.26	0.25	
比重浮上	0.105	87.68	0.105	
	0.074	86.41	0.074	
	0.0372	75.1		
	0.0268	71.6		
	0.0174	66.4		
	0.0104	59.4		
	0.0075	54.1		
	0.0054	47.2		
	0.0039	43.7		
	0.0028	38.4		
0.0011	31.5			

試料番号 深さ	No. (m - m)	No. (m - m)
4.76mm以上の粒子 %		
細礫分 (4.76 ~ 2mm) %	0.01	
粗砂分 (2 ~ 0.42mm) %	2.65	
細砂分 (0.42 ~ 0.074mm) %	10.93	
シルト分 (0.074 ~ 0.005mm) %	39.41	
粘土分 (0.005mm以下) %	47	
コロイド分 (0.001mm以下) %	31.5	
2000μmふるい通過質量百分率 %	99.99	
420μmふるい通過質量百分率 %	97.34	
74μmふるい通過質量百分率 %	86.41	
最大粒径 mm		
60 % 粒径 mm	0.0116	
30 % 粒径 mm	0.0010	
10 % 粒径 mm		
均等係数 U _c		
曲率係数 U _s		
土粒子の比重 G _s	2.62	
使用した分散剤		



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	岩石質材料
0.001	0.005	0.074	0.42	2.0	4.76	75	

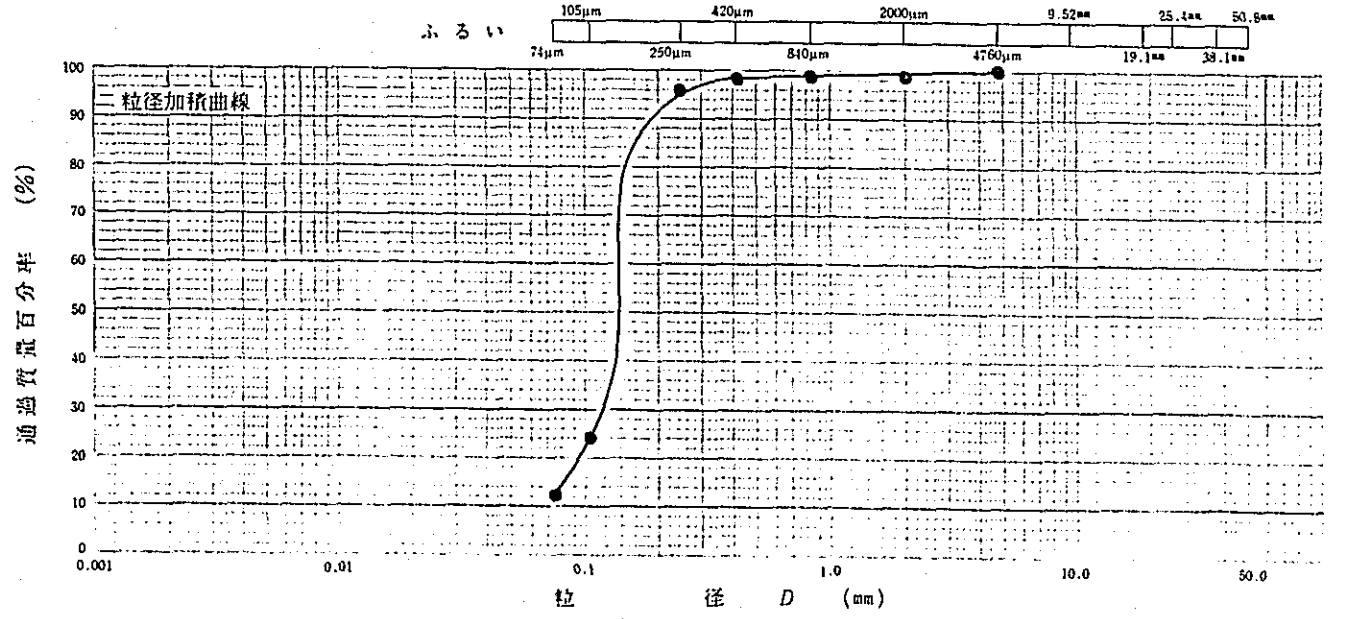
備考 SILT and CLAY some Sand D 75 = 0.0310 D 50 = 0.0062 注) コロイド分を含む

Table 2. 3-3 (49)

JIS A 1204 土の粒度試験結果 報告用紙

調査名・調査地点 BOTTOM MATERIAL-SURVEY STAT. F-4 (Discharge stat.) 試験年月日 9 年 12 月 1989 日
 10th Stage (Sampled on 14th July 1989) 試験者 Andy / Endang

試料番号 深さ	No. 52.24 (m ~ m)		No. (m ~ m)		試料番号 深さ	No. (m ~ m)		No. (m ~ m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %		粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふるい分け	4.76mm以上の粒子 %		4.76		4.76mm以上の粒子 %				
	細礫分 (4.76 ~ 2 mm) %		50.8		細礫分 (4.76 ~ 2 mm) %	0.35			
	粗砂分 (2 ~ 0.42 mm) %		38.1		粗砂分 (2 ~ 0.42 mm) %	1.25			
	細砂分 (0.42 ~ 0.074 mm) %		25.4		細砂分 (0.42 ~ 0.074 mm) %	85.46			
	シルト分 (0.074 ~ 0.005 mm) %		19.1		シルト分 (0.074 ~ 0.005 mm) %	12.94			
	粘土分 ^{注)} (0.005 mm 以下) %		9.52		粘土分 ^{注)} (0.005 mm 以下) %				
	コロイド分 (0.001 mm 以下) %		4.76	100	コロイド分 (0.001 mm 以下) %				
	2000μm 以上の通過質量百分率 %		2.00	99.65	2000μm 以上の通過質量百分率 %	99.65			
	420μm 以上の通過質量百分率 %		0.84	99.16	420μm 以上の通過質量百分率 %	98.40			
	74μm 以上の通過質量百分率 %		0.42	98.40	74μm 以上の通過質量百分率 %	12.94			
比重浮き	0.25	96.82	0.25		最大粒径 mm				
	0.105	24.93	0.105		60 % 粒径 mm	0.140			
	0.074	12.94	0.074		30 % 粒径 mm	0.180			
					10 % 粒径 mm				
					均等係数 U _c				
				曲率係数 U _s					
				土粒子の比重 G _s	2.71				
				使用した分散剤					



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	岩石質
0.001	0.005	0.074	0.42	2.0	4.76		75

備考 fine SAND, some Silt
 D 75 = 0.140
 D 50 = 0.139
 D 25 = 0.106
 注) コロイド分を含む

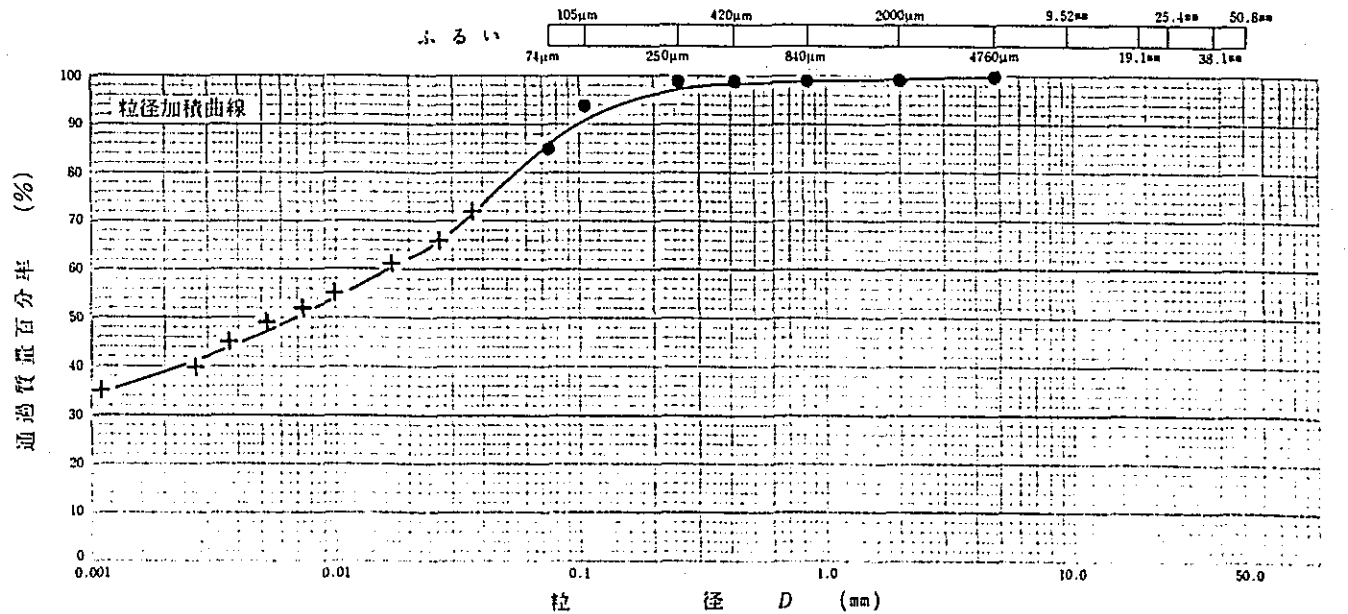
Table 2. 3-3 (50)

JIS A 1204 土の粒度試験結果 報告用紙

調査名・調査地点 BOTTOM MATERIAL SURVEY STAT. F-5 (Discharge Stat.) 10th Stage (Sampled on 14th July 1989) 試験年月日 8年12月1989日 試験者 Andy / Endang

試料番号 深さ	No. 54, 75 (m ~ m)		No. (m ~ m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふるい	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76	100	4.76	
	2.00	99.90	2.00	
	0.84	99.32	0.84	
	0.42	99.29	0.42	
	0.25	99.24	0.25	
比重 浮 ひ よ う	0.105	94.99	0.105	
	0.074	85.54	0.074	
	0.0360	72.9		
	0.0265	66.1		
	0.0171	61.0		
	0.0101	55.9		
	0.0072	52.8		
	0.0052	49.2		
	0.0037	45.8		
	0.0027	40.7		
0.0011	35.6			

試料番号 深さ	No. (m ~ m)	No. (m ~ m)
4.76mm以上の粒子 %		
細礫分 (4.76 ~ 2 mm) %	0.10	
粗砂分 (2 ~ 0.42 mm) %	0.61	
細砂分 (0.42 ~ 0.074 mm) %	13.75	
シルト分 (0.074 ~ 0.005 mm) %	39.54	
粘土分 (0.005 mm以下) %	46	
コロイド分 (0.001 mm以下) %	35.6	
2000µmふるい通過質量百分率 %	99.90	
420µmふるい通過質量百分率 %	99.29	
74µmふるい通過質量百分率 %	85.54	
最大粒径 mm		
60 % 粒径 mm	0.0165	
30 % 粒径 mm		
10 % 粒径 mm		
均等係数 U _c		
曲率係数 U _s		
土粒子の比重 G _s	2.69	
使用した分散剤		



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	岩石質材料
0.001	0.005	0.074	0.42	2.0	4.76	75	

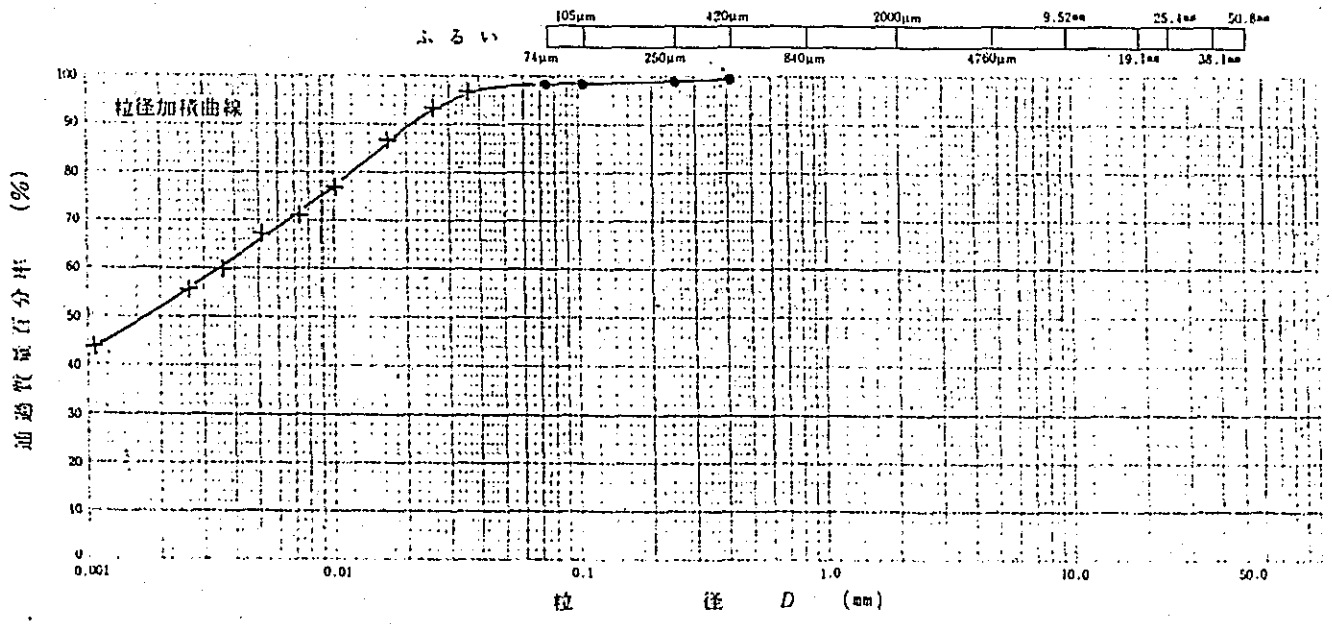
備考 SILT and CLAY some Sand D 75 = 0.044 D 50 = 0.007 注) コロイド分を含む

Table 2. 3-3 (51)

調査名・調査地点 BOTTOM MATERIAL SURVEY STAT.F-1 (Discharge Stat.)
 試験年月日 8 年 29 月 1989 日
 11th Stage (Sampled on 30th July 1989) 試験者 Andy & Endang

試料番号 深さ	No. St. F.1		No.	
	(m ~ m)		(m ~ m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふるい分け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00		2.00	
	0.84		0.84	
	0.42	100	0.42	
	0.25	99.94	0.25	
比重浮ひ	0.105	99.76	0.105	
	0.074	99.44	0.074	
	0.0361	97.4		
	0.0260	93.4		
	0.0169	78.3		
	0.0102	77.1		
	0.0074	71.1		
0.0053	67.0			
0.0038	60.9			
0.0027	56.9			
0.0011	44.7			

試料番号 深さ	No.		No.	
	(m ~ m)		(m ~ m)	
4.76mm以上の粒子 %				
細礫分 (4.76 ~ 2mm) %				
粗砂分 (2 ~ 0.42mm) %				
細砂分 (0.42 ~ 0.074mm) %				
シルト分 (0.074 ~ 0.005mm) %				
粘土分 ^{注)} (0.005mm以下) %				
コロイド分(0.001mm以下) %				
2000μmふるい通過質量百分率 %				
420μmふるい通過質量百分率 %				
74μmふるい通過質量百分率 %				
最大粒径 mm				
60 % 粒径 mm				
30 % 粒径 mm				
10 % 粒径 mm				
均等係数 U ₁				
曲率係数 U ₂				
土粒子の比重 G _s				
使用した分散剤				



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	岩石質材料
0.001	0.005	0.074	0.42	2.0	4.76	75	

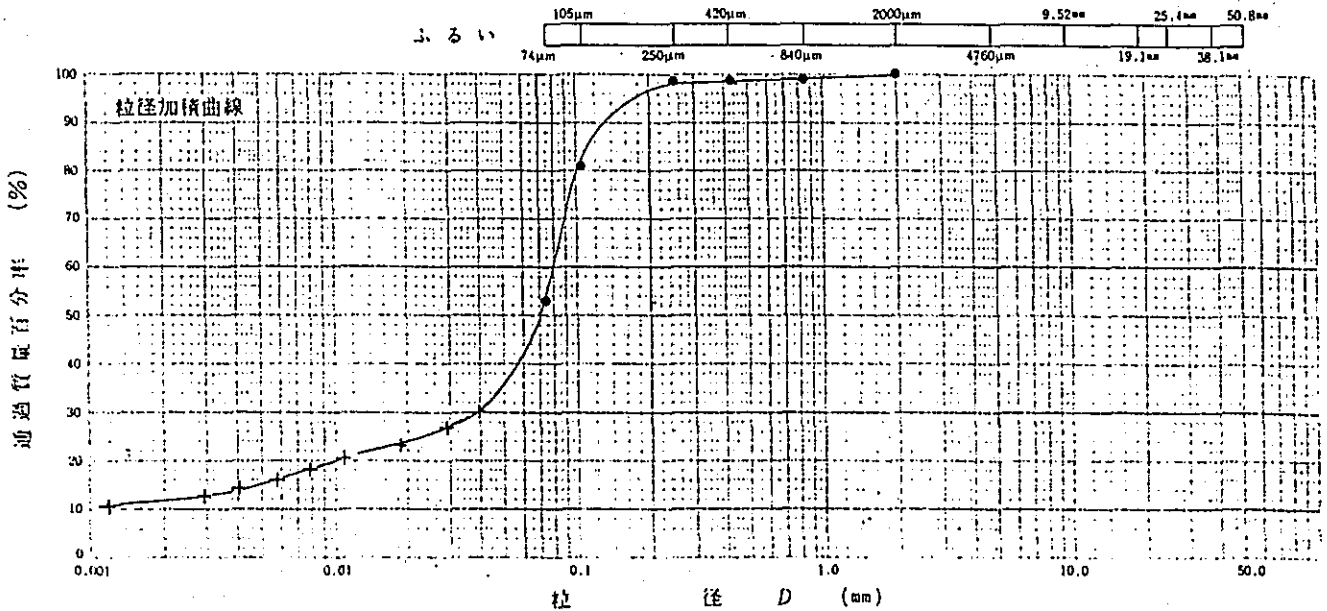
備考 Silty CLAY trace Sand
 D 75 = 0.0091
 D 50 = 0.0017
 注) コロイド分を含む

Table 2. 3-3 (2)

調査名・調査地点: BOTTOM MATERIAL SURVEY STAT.F-2 (Discharge Stat.)
 試験年月日: 8 年 30 月 1989 日
 11th Stage (Sampled on 30th July 1989) 試験者: Andy & Endang

試料番号 深さ	No St. F.2		No	
	(m - m)	(m - m)	(m - m)	(m - m)
ふるい分け	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.95	0.84	
	0.42	99.87	0.42	
比重浮き	0.25	99.66	0.25	
	0.105	81.96	0.105	
	0.074	53.84	0.074	
	0.0410	28.8		
	0.0295	26.7		
	0.0190	23.5		
	0.0111	21.3		
	0.0080	18.1		
0.0057	16.0			
0.0041	13.9			
0.0029	11.7			
0.0012	9.6			

試料番号 深さ	No	No
(m - m)	(m - m)	(m - m)
4.76mm以上の粒子 %		
細礫分 (4.76 - 2mm) %		
粗砂分 (2 - 0.42mm) %	0.13	
細砂分 (0.42 - 0.074mm) %	46.03	
シルト分 (0.074 - 0.005mm) %	38.84	
粘土分 (0.005mm以下) %	15	
コロイド分 (0.001mm以下) %	9.6	
2000μmふるい通過質量百分率 %	100	
420μmふるい通過質量百分率 %	99.87	
74μmふるい通過質量百分率 %	53.84	
最大粒径 mm		
60 % 粒径 mm	0.08	
30 % 粒径 mm	0.04	
10 % 粒径 mm		
均等係数 U_c		
曲率係数 U_c'		
土粒子の比重 G_s	2.55	
使用した分散剤		



コロイド	粘	土	シルト	細	砂	粗	砂	細	礫	砕	砕
0.001		0.005		0.075		0.42		2.0		4.76	75

備考: SILT and Fine SAND, some Clay
 D 75 = 0.095
 D 50 = 0.071
 D 25 = 0.025
 注) コロイド分を含む

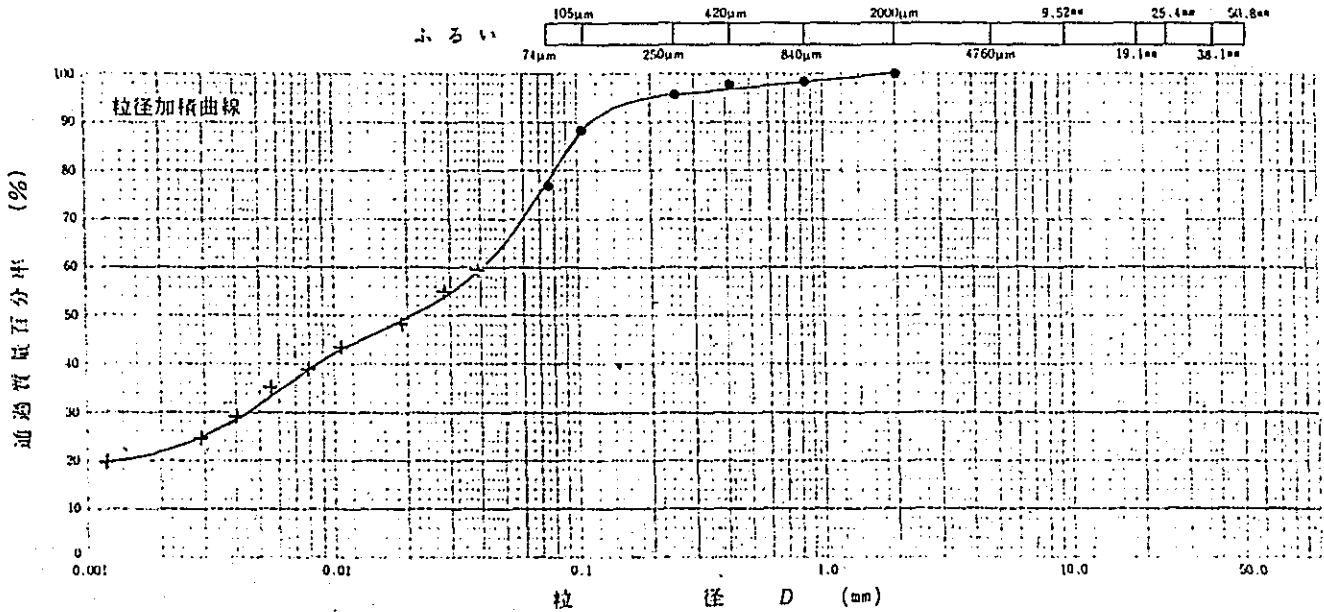
Table 2.3-3 (53)

調査名・調査地点 BOTTOM MATERIAL SURVEY
 STAT.F-3 (Discharge Stat.)
 11th Stage (Sampled on 30th July 1989)

試験年月日 8 年 30 月 1989 日
 試験者 Andy & Endang

試料番号 深さ	No St.F3		No	
	(m - m)		(m - m)	
	粒 径 mm	質量百分率 %	粒 径 mm	質量百分率 %
ふ る い 分 け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.02	0.84	
	0.42	98.02	0.42	
	0.25	96.80	0.25	
比 重 浮 ひ よ う	0.105	89.10	0.105	
	0.074	77.10	0.074	
	0.0389	59.2		
	0.0280	56.1		
	0.0184	48.3		
	0.0108	43.6		
	0.0078	39.0		
0.0056	35.8			
0.0040	29.6			
0.0029	24.9			
0.0012	18.7			

試料番号 深さ	No		No	
	(m - m)		(m - m)	
4.76mm以上の粒子	%			
細礫分 (4.76 ~ 2 mm)	%			
粗砂分 (2 ~ 0.42 mm)	%	1.98		
細砂分 (0.42 ~ 0.074 mm)	%	20.92		
シルト分 (0.074 ~ 0.005 mm)	%	45.10		
粘土分 ^{注)} (0.005 mm以下)	%	32		
コロイド分 (0.001 mm以下)	%	18.7		
2000µmふるい通過質量百分率 %		100		
420µmふるい通過質量百分率 %		98.02		
75µmふるい通過質量百分率 %		77.10		
最大粒径 mm				
60 % 粒径 mm		0.042		
30 % 粒径 mm		0.0044		
10 % 粒径 mm				
均等係数 U_c				
曲率係数 U_c'				
土粒子の比重 G_s		2.59		
使用した分散剤				



コロイド	粘 土	シ ル ト	細 砂	粗 砂	細 礫	礫	発行 材料
0.001	0.005	0.074	0.42	2.0	4.76	75	

備考 Clayey SILT, some Sand

D 75 = 0.071
 D 50 = 0.02
 D 25 = 0.003
 注) コロイド分を含む

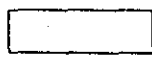


Table 2. 3-3 (51)

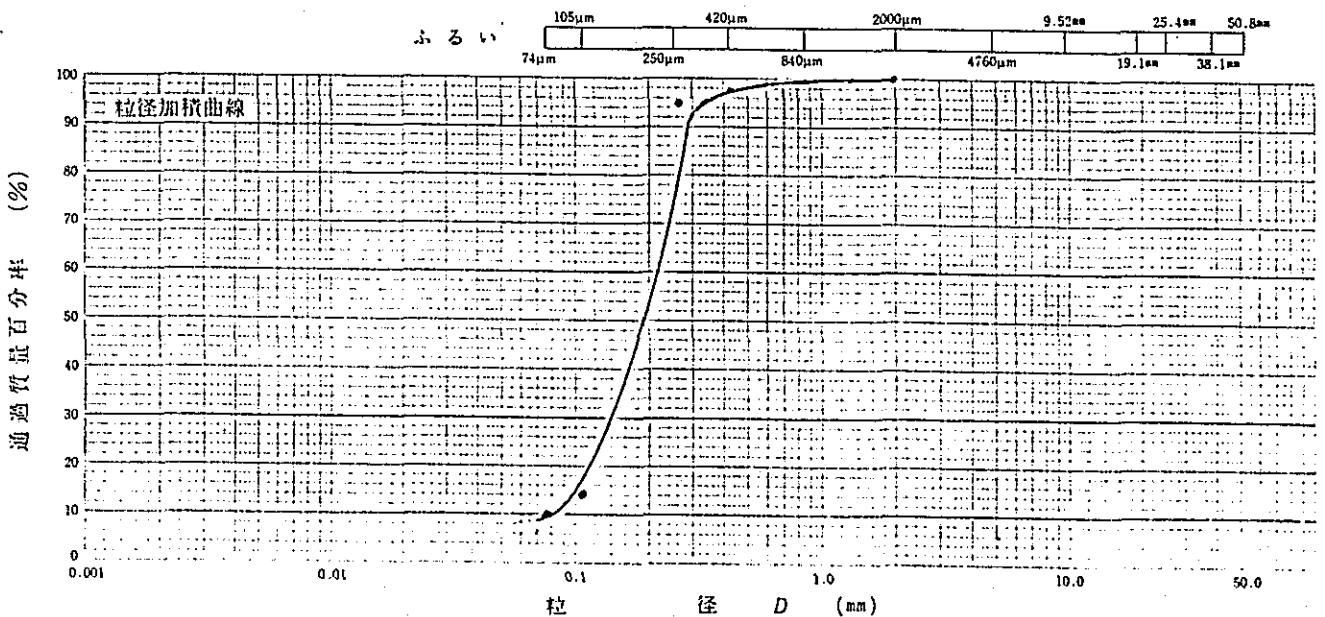
JIS A 1204	土の粒度試験結果	報告用紙
------------	----------	------

調査名・調査地点 BOTTOM MATERIAL SURVEY
 STAT.F-4 (Discharge Stat.)
 11th Stage (Sampled on 30th July 1989)

試験年月日 年 月 日
 試験者

試料番号 深さ	No. FA (m ~ m)		No. (m ~ m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふ る い 分 け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.8	0.84	
	0.42	97.2	0.42	
	0.25	95.1	0.25	
比 重 浮 び よ う	0.105	14.0	0.105	
	0.074	9.5	0.074	

試料番号 深さ	No. (m ~ m)		No. (m ~ m)	
4.76mm以上の粒子 %				
細礫分 (4.76 ~ 2mm) %				
粗砂分 (2 ~ 0.42mm) %	2.8			
細砂分 (0.42 ~ 0.074mm) %	87.7			
シルト分 (0.074 ~ 0.005mm) %	9.5			
粘土分 (0.005mm以下) %				
コロイド分 (0.001mm以下) %				
2000μmふるい通過質量百分率 %				
420μmふるい通過質量百分率 %				
74μmふるい通過質量百分率 %				
最大粒径 mm				
60 % 粒径 mm	0.219			
30 % 粒径 mm	0.141			
10 % 粒径 mm	0.0799			
均等係数 U_c	2.74			
曲率係数 U_c'	1.14			
土粒子の比重 G_s	2.69			
使用した分散剤				



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	岩石質材料
0.001	0.005	0.074	0.42	2.0	4.76		75

備考 fine SAND trace silt.

$D_{75} = 0.257$
 $D_{50} = 0.189$
 $D_{25} = 0.128$

注) コロイド分を含む

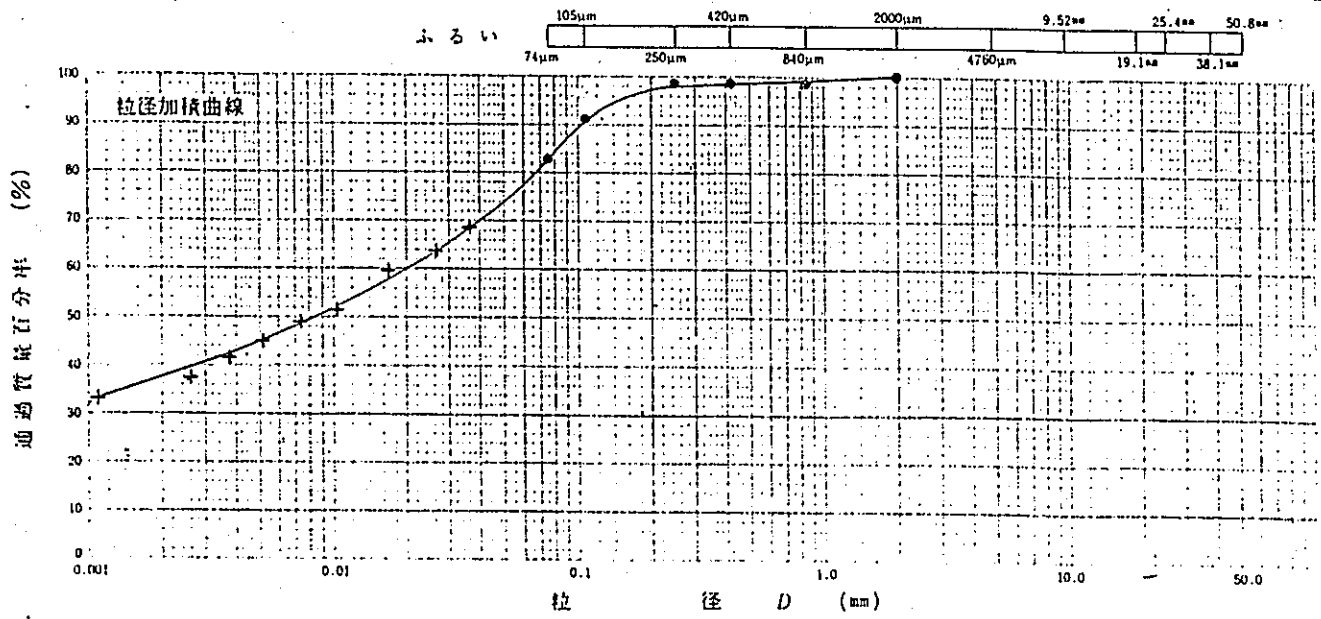
Table 2. 3-3 (55)

JIS A 1204	土の粒度試験結果	報告用紙
------------	----------	------

調査名・調査地点...BOTTOM MATERIAL SURVEY... 試験年月日...8...年 30...月 1989日
 STAT.F-5 (Discharge Stat.) 試験者...Andy & Endang...
 11th Stage (Sampled on 30th July 1989)

試料番号 深さ	No. St. F5		No.	
	(m ~ m)		(m ~ m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふ ろ い 分 け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.98	0.84	
	0.42	99.92	0.42	
	0.25	99.72	0.25	
	0.105	97.01	0.105	
0.074	83.89	0.074		
比 重 浮 ひ よ う	0.0373	68.8		
	0.0270	63.8		
	0.0174	60.4		
	0.0104	52.0		
	0.0075	48.7		
	0.0053	45.3		
	0.0038	42.0		
0.0027	38.6			
0.0011	33.6			

試料番号 深さ	No.	No.
	(m ~ m)	(m ~ m)
4.76mm以上の粒子	%	
細砂分 (4.76 ~ 2mm)	%	
粗砂分 (2 ~ 0.42mm)	0.08	
細砂分 (0.42 ~ 0.074mm)	16.03	
シルト分 (0.074 ~ 0.005mm)	38.89	
粘土分 ^注 (0.005mm以下)	45	
コロイド分(0.001mm以下)	33.6	
2000μmふるい通過質量百分率 %	100	
420μmふるい通過質量百分率 %	99.92	
74μmふるい通過質量百分率 %	83.89	
最大粒径 mm		
60 % 粒径 mm	0.021	
30 % 粒径 mm		
10 % 粒径 mm		
均等係数 U _c		
曲率係数 U _s		
土粒子の比重 G _s	2.65	
使用した分散剤		



コロイド	粘 土	シ ル ト	細 砂	粗 砂	細 礫	礫	岩石質 材料
0.001	0.005	0.074	0.42	2.0	4.76		75

備考

SILT and CLAY, some Sand

D 75 = 0.054
D 50 = 0.0084

注) コロイド分を含む

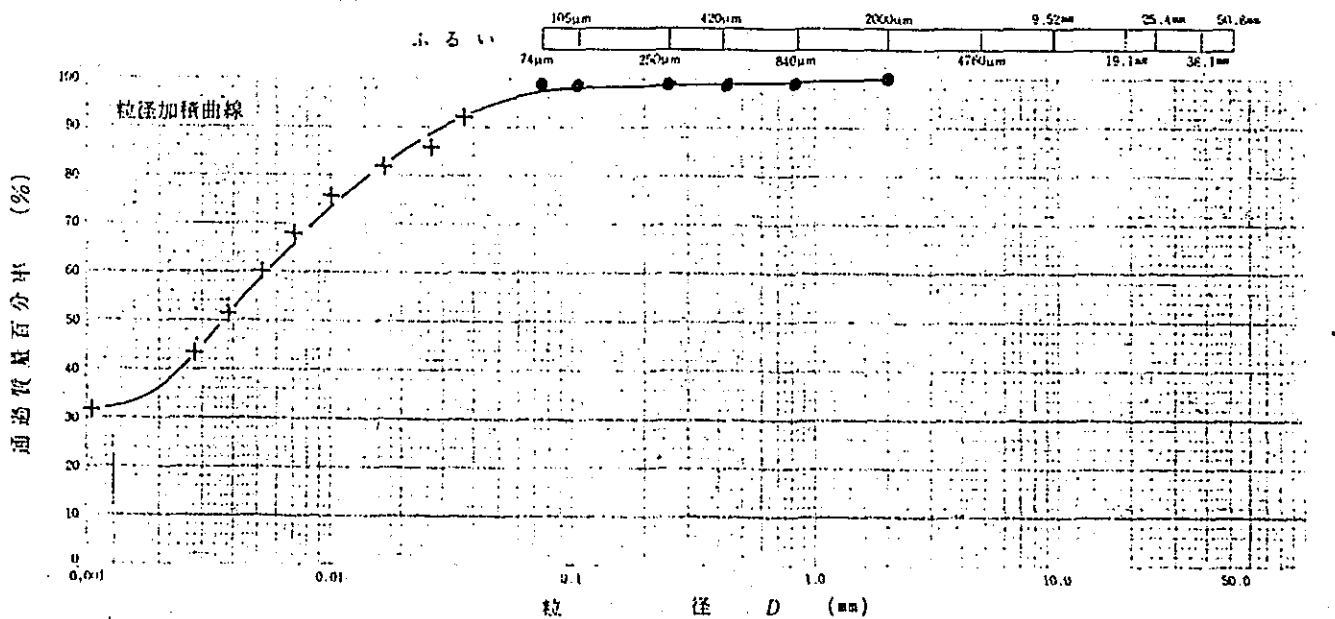
Table 2.3-3 (56)

JIS A 1204 土の粒度試験結果 報告用紙

調査名・調査地点 BOTTOM MATERIAL SURVEY STAT. F-1 (Discharge Stat.) 試験年月日 9 年 9 月 1989 日
 12th Stage (Sampled on 13th Aug. 1989) 試験者 Andy.A

試料番号 深さ	No. St. F1		No.	
	(m - m)	(m - m)	(m - m)	(m - m)
ふるい分け	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.96	0.84	
	0.42	99.94	0.42	
比重浮き	0.25	99.88	0.25	
	0.105	99.72	0.105	
	0.074	99.22	0.074	
	0.0362	92.2		
	0.0263	86.2		
	0.0169	82.2		
	0.0100	76.1		
	0.0073	68.1		
0.0053	60.2			
0.0038	52.1			
0.0028	44.1			
0.0011	32.1			

試料番号 深さ	No.	No.
(m - m)	(m - m)	(m - m)
4.76mm以上の粒子 %		
細礫分 (4.76 - 2mm) %		
粗砂分 (2 - 0.42mm) %	0.06	
細砂分 (0.42 - 0.074mm) %	0.72	
シルト分 (0.074 - 0.005mm) %	41.22	
粘土分 (0.005mm以下) %	58	
コロイド分 (0.001mm以下) %	32.1	
2000μmふるい通過質量百分率 %	100	
420μmふるい通過質量百分率 %	99.94	
74μmふるい通過質量百分率 %	99.22	
最大粒径 mm		
60 % 粒径 mm	0.0054	
30 % 粒径 mm		
10 % 粒径 mm		
均等係数 U _c		
曲率係数 U _s		
土粒子の比重 G _s	2.60	
使用した分散剤		



コロイド	粘土	シルト	細砂	粗砂	細礫	礫	岩石質材料
0.001	0.005	0.074	0.42	2.0	4.76		75

備考 CLAY and SILT trace Sand. D 75 = 0.011 D 50 = 0.0036 注) コロイド分を含む

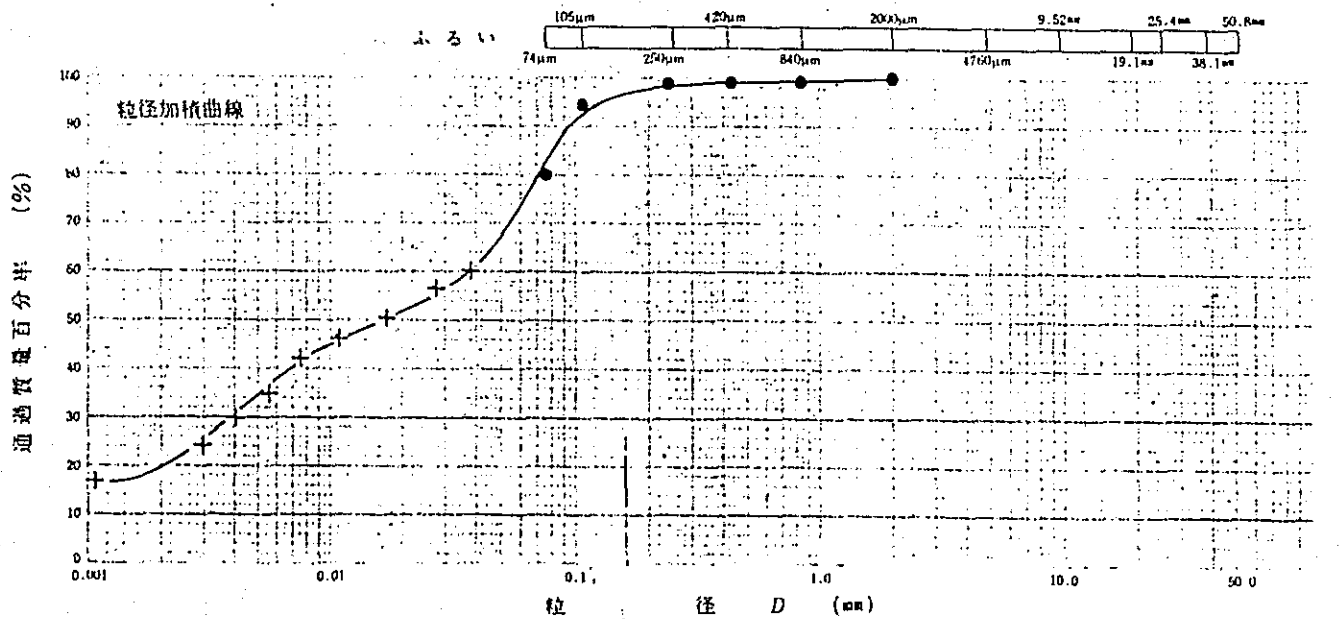
Table 2.3-3 (57)

JIS A 1204	土の粒度試験結果	報告用紙
------------	----------	------

調査名・調査地点 BOTTOM MATERIAL SURVEY 試験年月日 9 年 9 月 1989 日
STAT. F-2 (Discharge Stat.) 試験者 Andy.A
 12th Stage (Sampled on 13th Aug.1989)

試料番号 深さ	No. St. F2 (m ~ m)		No (m ~ m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふるい分け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.98	0.84	
	0.42	99.94	0.42	
	0.25	99.82	0.25	
比重浮ひょう	0.105	94.68	0.105	
	0.074	80.77	0.074	
	0.0383	61.4		
	0.0277	56.5		
	0.0179	51.7		
	0.0106	46.8		
	0.0076	42.0		
	0.0055	35.5		
0.0040	30.7			
0.0029	24.2			
0.0011	17.8			

試料番号 深さ	No (m ~ m)	No (m ~ m)
4.76mm以上の粒子	%	
細礫分 (4.76 ~ 2mm)	%	
粗砂分 (2 ~ 0.42mm)	0.06	
細砂分 (0.42 ~ 0.074mm)	19.17	
シルト分 (0.074 ~ 0.005mm)	45.77	
粘土分 ^注 (0.005mm以下)	35	
コロイド分(0.001mm以下)	17.8	
2000μmふるい通過質量百分率	100	
420μmふるい通過質量百分率	99.94	
74μmふるい通過質量百分率	80.77	
最大粒径 mm		
60% 粒径 mm	0.038	
30% 粒径 mm	0.0039	
10% 粒径 mm		
均等係数 U _c		
曲率係数 U _s		
土粒子の比重 G _s	2.63	
使用した分散剤		



コロイド	粘 土	シ ル ト	細 砂	粗 砂	細 礫	礫	岩石質材料
0.001	0.005	0.074	0.42	2.0	4.76	75	

備考 Clayey SILT, some Sand. D 75 = 0.063
 D 50 = 0.017
 D 25 = 0.0029
 注) コロイド分を含む

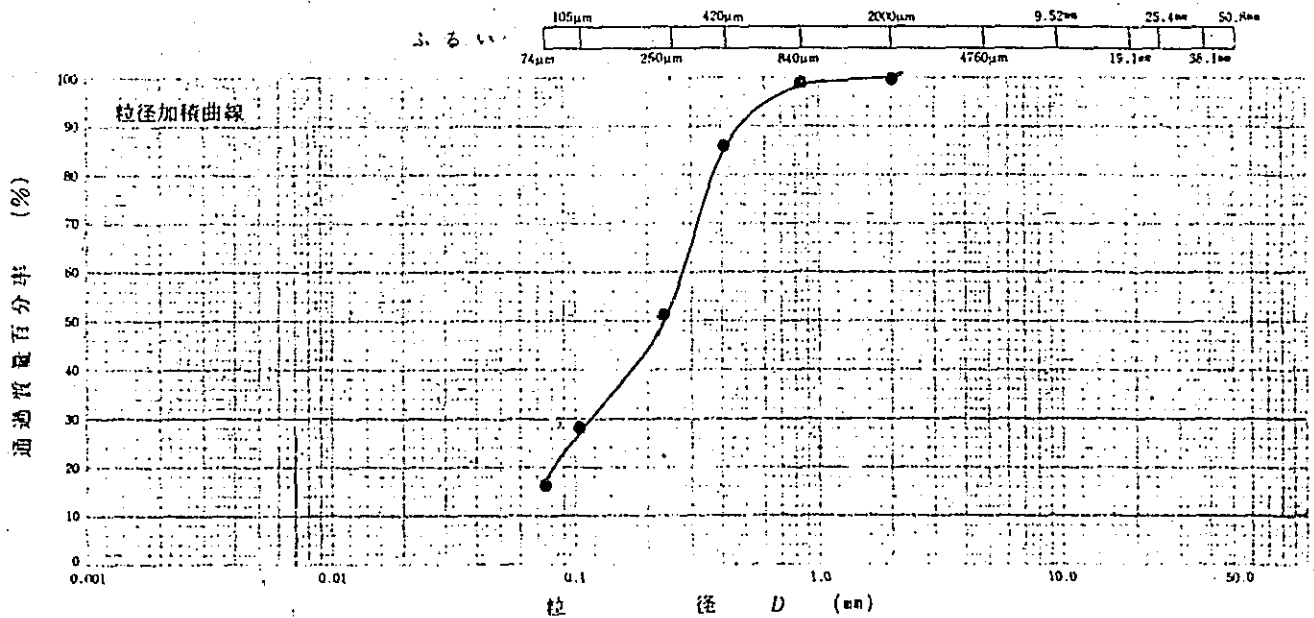
Table 2. 3-3 (58)

JIS A 1204	土の粒度試験結果	報告用紙
------------	----------	------

調査名・調査地点 BOTTOM MATERIAL SURVEY STAT. F-3 (Discharge Stat.)
 試験年月日 日 年 9 月 89 日
 12th Stage (Sampled on 13th Aug.1989) 試験者 Andy.A

試料番号 深さ	No St. F3		No	
	(m ~ m)		(m ~ m)	
	粒 径 mm	質量百分率 %	粒 径 mm	質量百分率 %
ふ る い 分 け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.08	0.84	
	0.42	86.54	0.42	
	0.25	51.92	0.25	
比 重 浮 ひ よ う	0.105	28.92	0.105	
	0.074	16.82	0.074	

試料番号 深さ	No		No	
	(m ~ m)		(m ~ m)	
4.76mm以上の粒子 %				
細礫分 (4.76 ~ 2mm) %				
粗砂分 (2 ~ 0.42mm) %	13.46			
細砂分 (0.42 ~ 0.074mm) %	69.72			
シルト分 (0.074 ~ 0.005mm) %	16.82			
粘土分 (0.005mm以下) %				
コロイド分 (0.001mm以下) %				
2000μmふるい通過質量百分率 %	100			
420μmふるい通過質量百分率 %	86.54			
74μmふるい通過質量百分率 %	16.82			
最大粒 径 mm				
60 % 粒 径 mm	0.279			
30 % 粒 径 mm	0.118			
10 % 粒 径 mm				
均 等 係 数 U_c				
曲 率 係 数 U_s				
土 粒 子 の 比 重 G_s	2.67			
使用した分散剤				



コロイド	粘 土	シ ル ト	細 砂	粗 砂	細 礫	礫	石 質 材
0.001	0.005	0.074	0.42	2.0	4.76		75

備考

Fine SAND, some Silt.

D 75 = 0.341
 D 50 = 0.235
 D 25 = 0.096
 注) コロイド分を含む

Table 2. 3-3 (59)

JIS A 1204	土の粒度試験結果	報告用紙
------------	----------	------

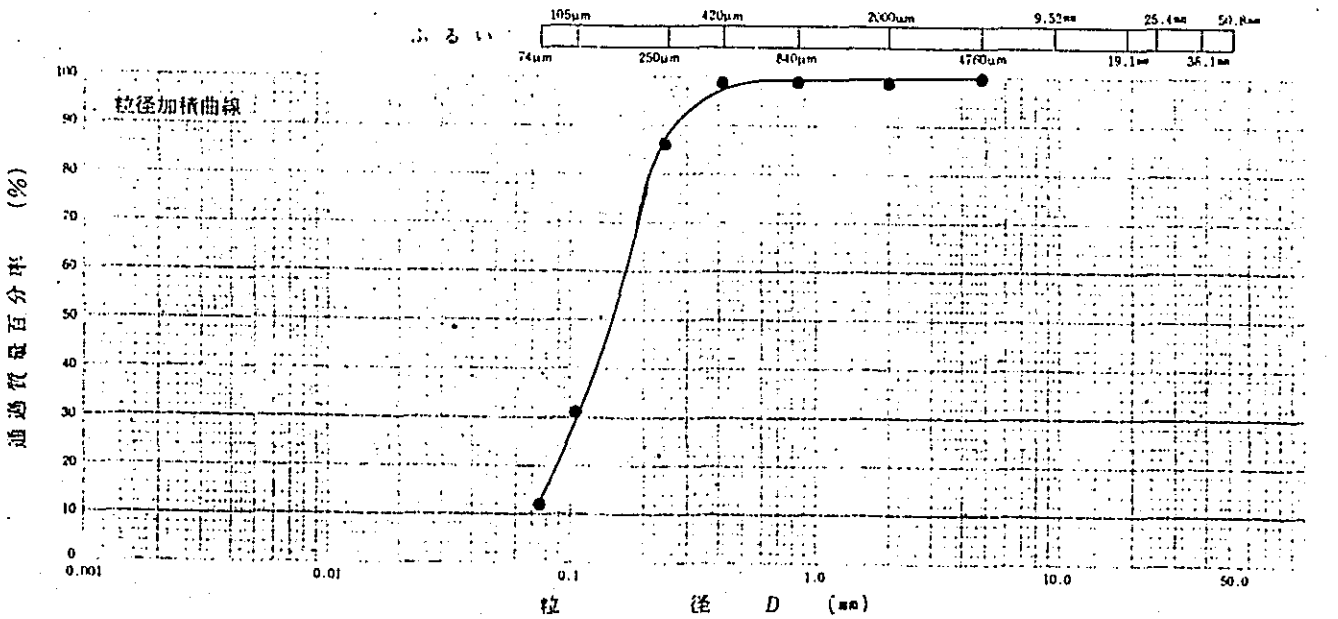
調査名・調査地点: BOTTOM MATERIAL SURVEY
STAT. F-4 (Discharge Stat.)

試験年月日 9 年 9 月 89 日

12th Stage (Sampled on 13th Aug.1989)

試験者 Andy.A

試料番号 深さ	No. St. F4		No.		試料番号 深さ	No.		No.	
	(m ~ m)		(m ~ m)			(m ~ m)		(m ~ m)	
ふ る い 分 け	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %	4.76mm以上の粒子 %				
	50.8		50.8		細礫分 (4.76 ~ 2mm) %	0.06			
	38.1		38.1		粗砂分 (2 ~ 0.42mm) %	0.16			
	25.4		25.4		細砂分 (0.42 ~ 0.074mm) %	87.42			
	19.1		19.1		シルト分 (0.074 ~ 0.005mm) %	12.36			
	9.52		9.52		粘土分 (0.005mm以下) %				
	4.76	100	4.76		コロイド分 (0.001mm以下) %				
	2.00	99.94	2.00		2000μmふるい通過質量百分率 %	99.94			
	0.84	99.88	0.84		420μmふるい通過質量百分率 %	99.78			
	0.42	99.78	0.42		74μmふるい通過質量百分率 %	12.36			
0.25	86.32	0.25		最大粒径 mm					
0.105	31.92	0.105		60 % 粒径 mm	0.165				
0.074	12.36	0.074		30 % 粒径 mm	0.107				
				10 % 粒径 mm					
				均等係数 U_c					
				曲率係数 U_c'					
				土粒子の比重 G_s	2.65				
				使用した分散剤					



コロイド	粘 土	シ ル ト	細 砂	粗 砂	細 礫	礫	岩石質材料
0.001	0.005	0.074	0.42	2.0	4.76	75	

備考
Fine SAND, some Silt.

D 75 = 0.199
D 50 = 0.151
D 25 = 0.097
注) コロイド分を含む

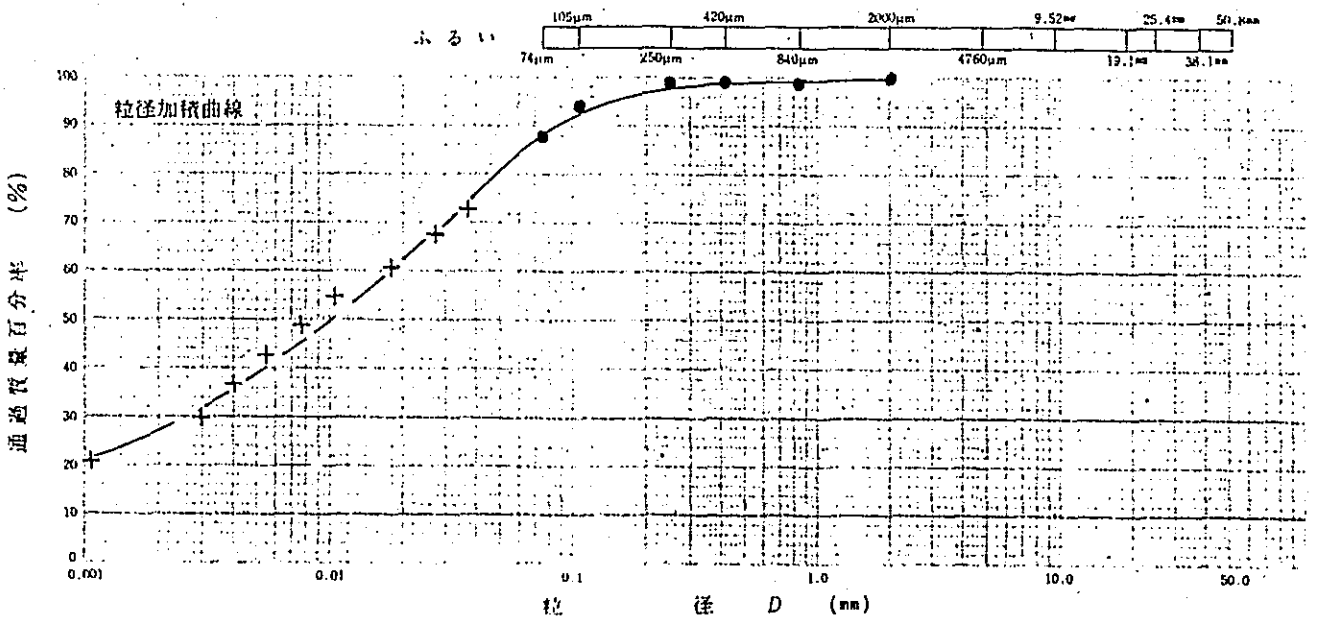
Table 2. 3-3 (60)

JIS A 1204 土の粒度試験結果 報告用紙

調査名・調査地点 BOTTOM MATERIAL SURVEY STAT. F-5 (Discharge Stat.) 試験年月日 9 年 9 月 89 日
 12th Stage (Sampled on 13th Aug. 1989) 試験者 Andy.A

試料番号 深さ	No. St. F.5 (m ~ m)		No. (m ~ m)	
	粒径 mm	質量百分率 %	粒径 mm	質量百分率 %
ふ る い 分 け	50.8		50.8	
	38.1		38.1	
	25.4		25.4	
	19.1		19.1	
	9.52		9.52	
	4.76		4.76	
	2.00	100	2.00	
	0.84	99.96	0.84	
	0.42	99.92	0.42	
	0.25	99.82	0.25	
比 重 浮 ひ う	0.105	94.56	0.105	
	0.074	88.80	0.074	
	0.0379	73.6		
	0.0275	68.1		
	0.0180	61.0		
	0.0106	55.6		
	0.0077	48.4		
	0.0055	43.0		
う	0.0040	37.7		
	0.0029	30.5		
	0.0011	21.5		

試料番号 深さ	No. (m ~ m)	No. (m ~ m)
4.76mm以上の粒子 %		
細礫分 (4.76 ~ 2mm) %		
粗砂分 (2 ~ 0.42mm) %	0.08	
細砂分 (0.42 ~ 0.074mm) %	11.12	
シルト分 (0.074 ~ 0.005mm) %	49.80	
粘土分 (0.005mm以下) %	39	
コロイド分 (0.001mm以下) %	21.5	
2000μmふるい通過質量百分率 %	100	
420μmふるい通過質量百分率 %	99.92	
74μmふるい通過質量百分率 %	88.80	
最大粒径 mm		
60 % 粒径 mm	0.017	
30 % 粒径 mm	0.0026	
10 % 粒径 mm		
均等係数 U_c		
曲率係数 U_c'		
土粒子の比重 G_s	2.62	
使用した分散剤		



コロイド	粘 土	シ ル ト	細 砂	粗 砂	細 礫	礫	砕石
0.001	0.005	0.074	0.42	2.0	4.76		75

備考 SILT and CLAY, some Sand. D 75 = 0.0384
 D 50 = 0.0104
 D 25 = 0.0017
 (注) コロイド分を含む