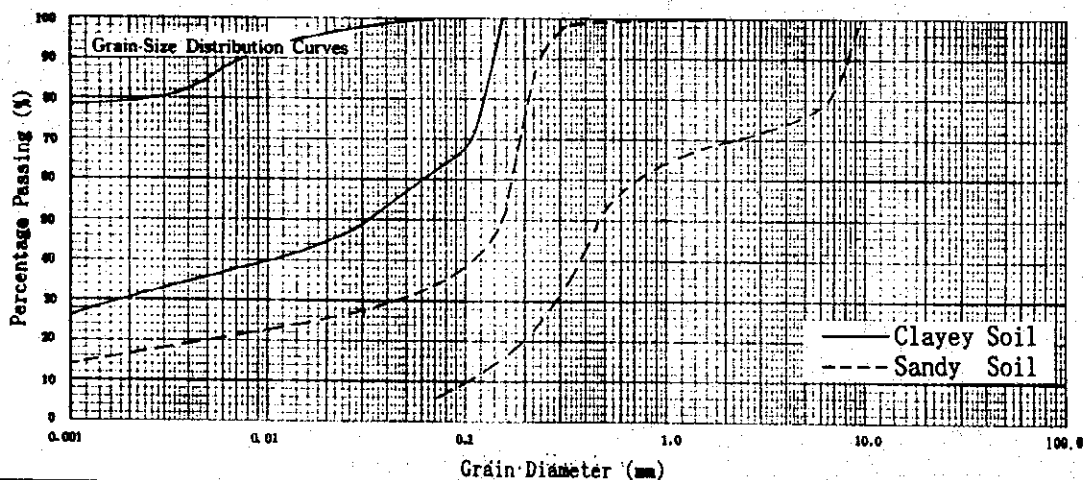
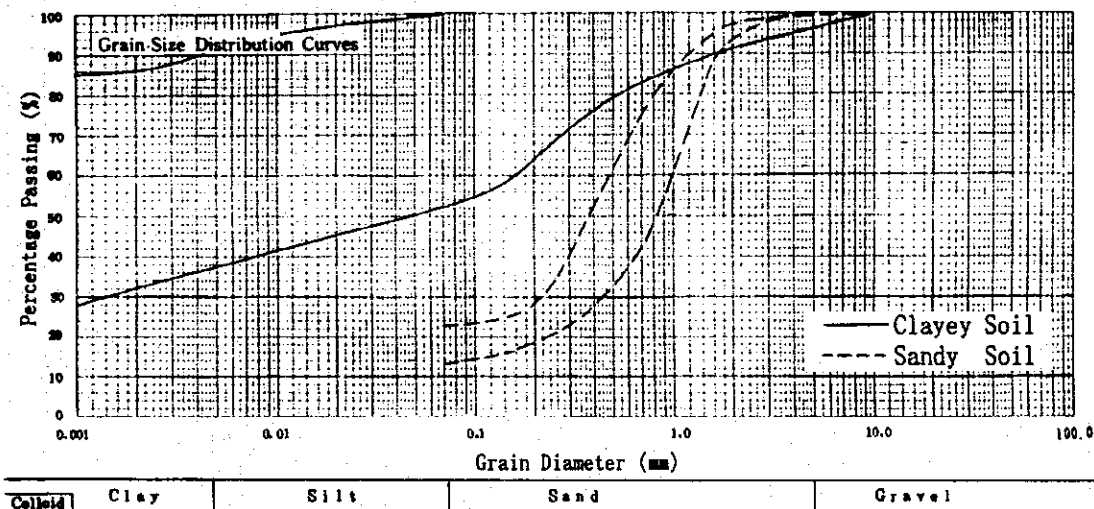


[Pd Layer]

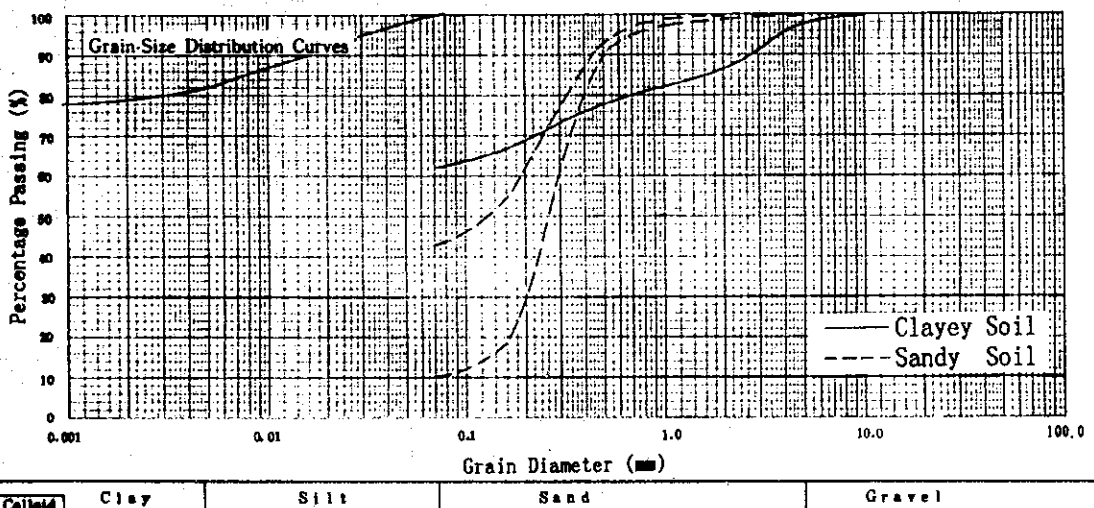


[N1 Layer]

Grain Size Distribution Curves at Site-B [Pd & N1]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDECE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD

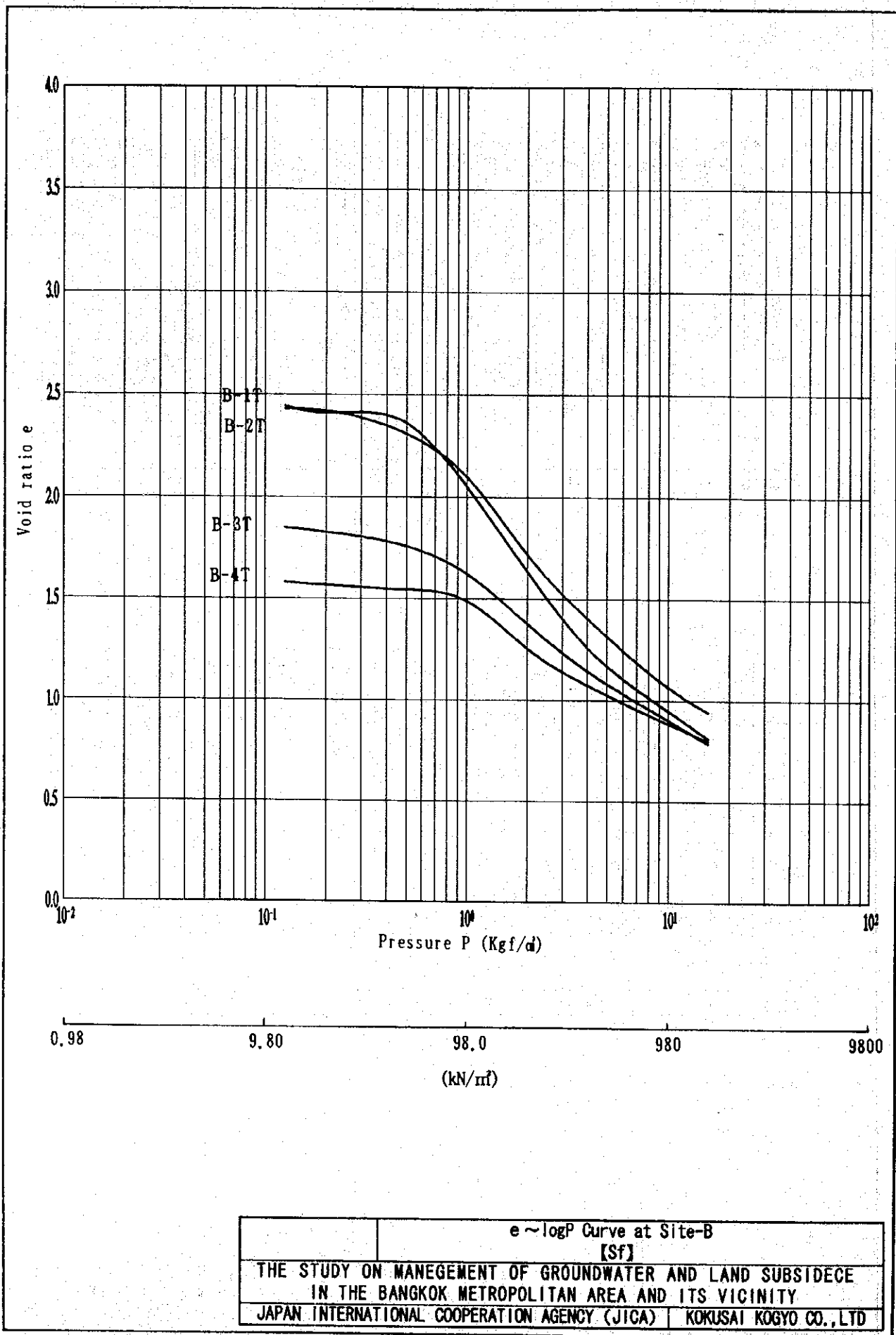


[Nb Layer]



[Sk Layer]

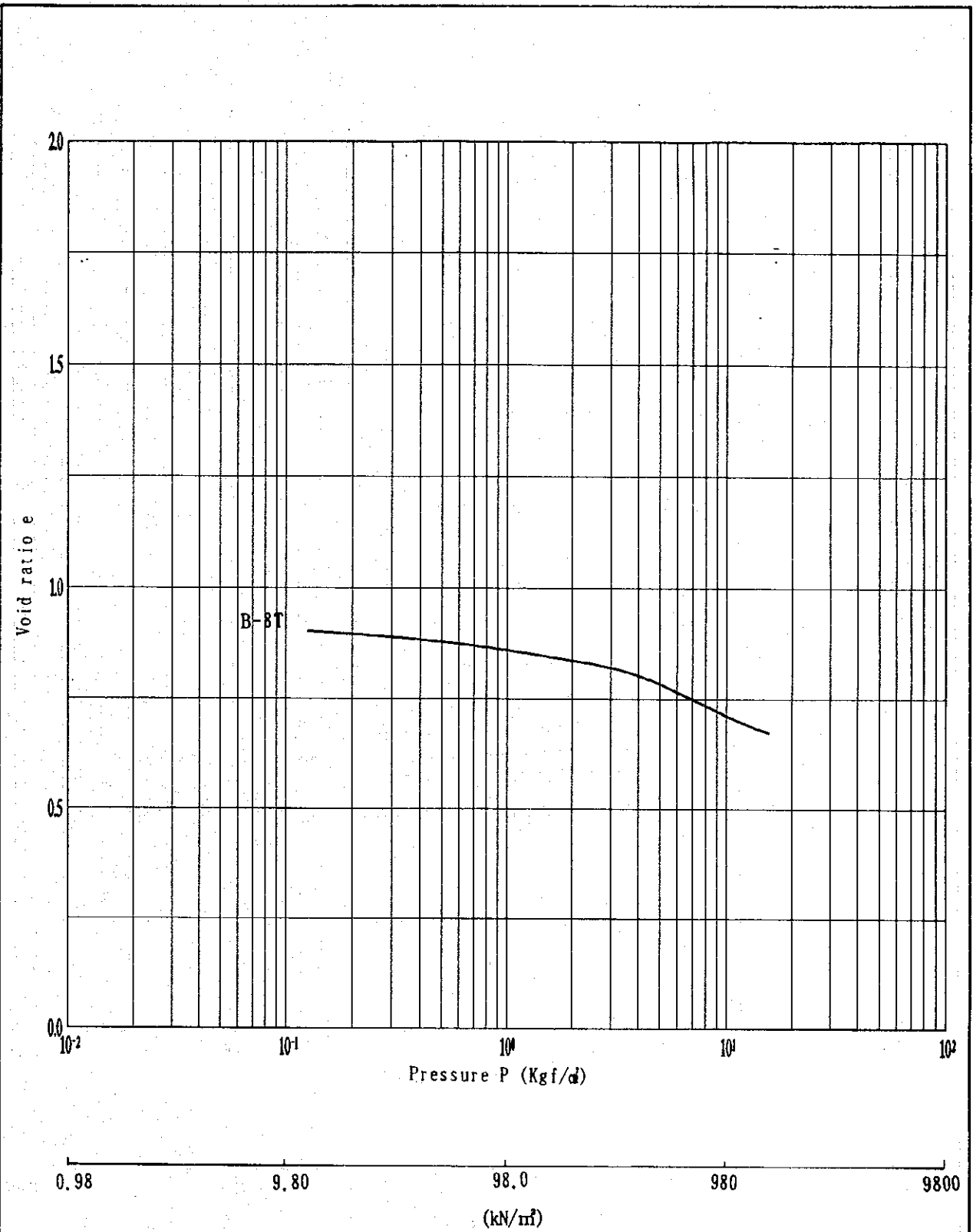
Grain Size Distribution Curves at Site-B [Nb & Sk]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD



e ~ logP Curve at Site-B
[Sf]

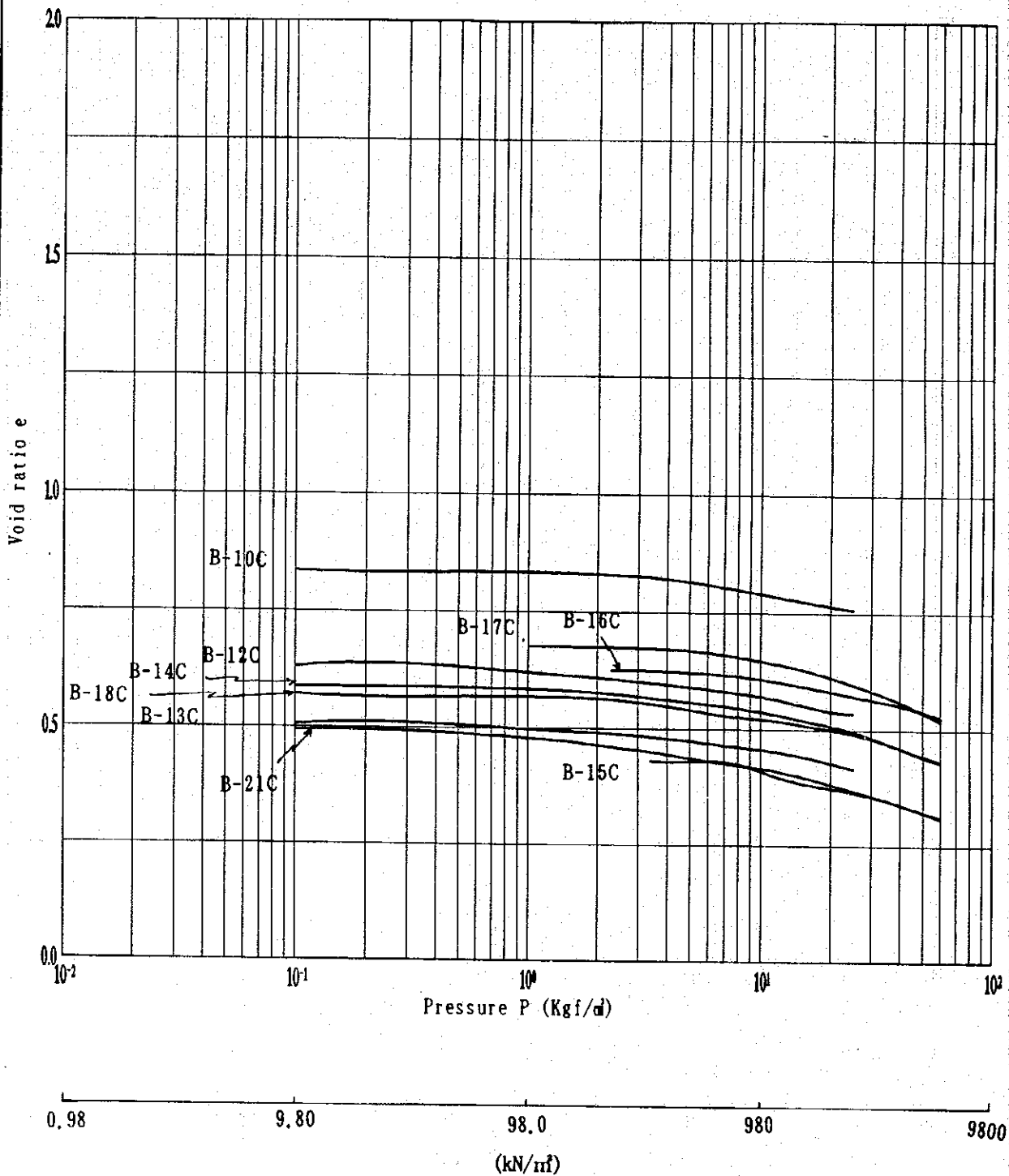
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | KOKUSAI KOGYO CO., LTD



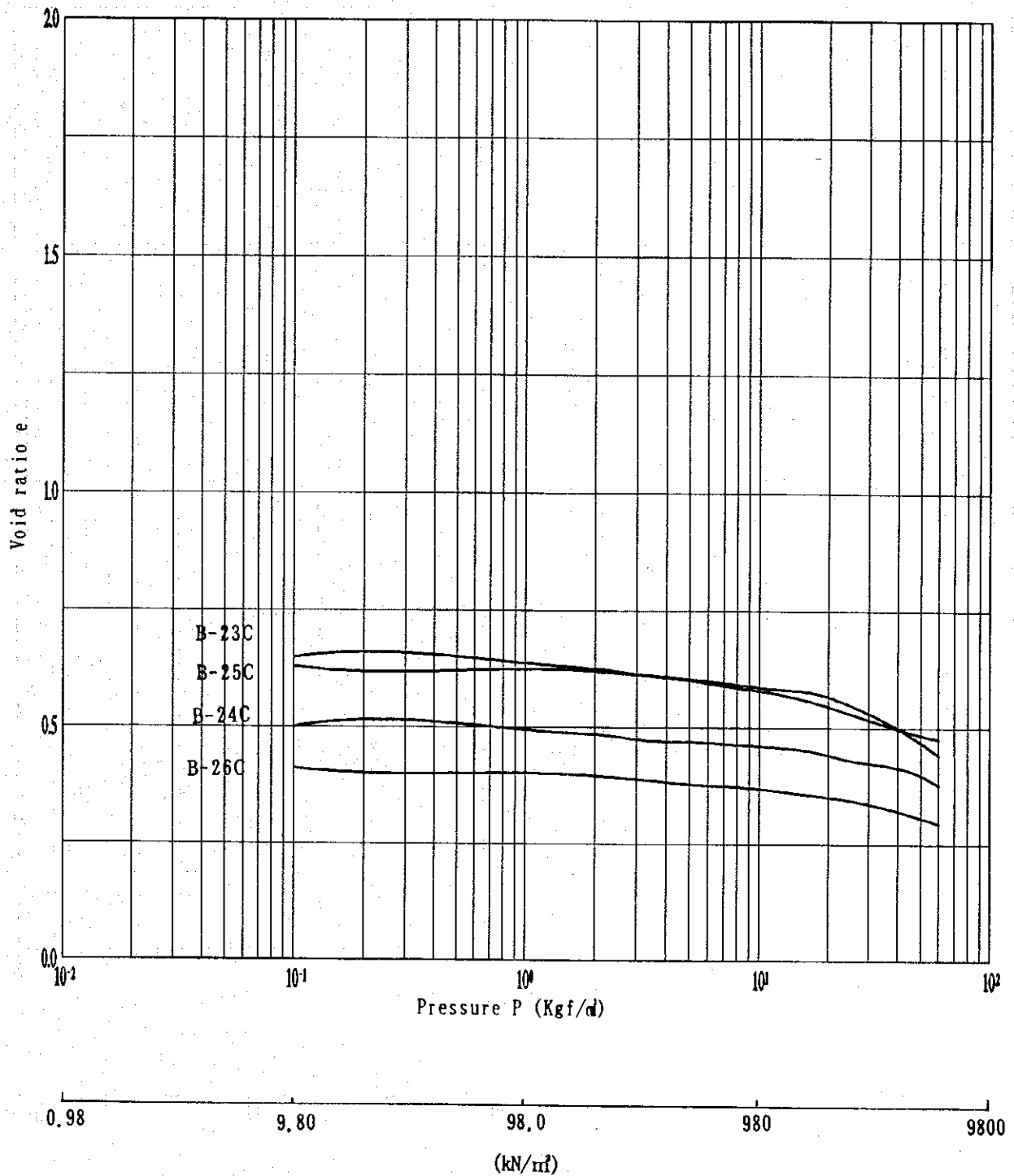
e ~ logP Curve at Site-B
[Bk]

THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | KOKUSAI KOGYO CO., LTD

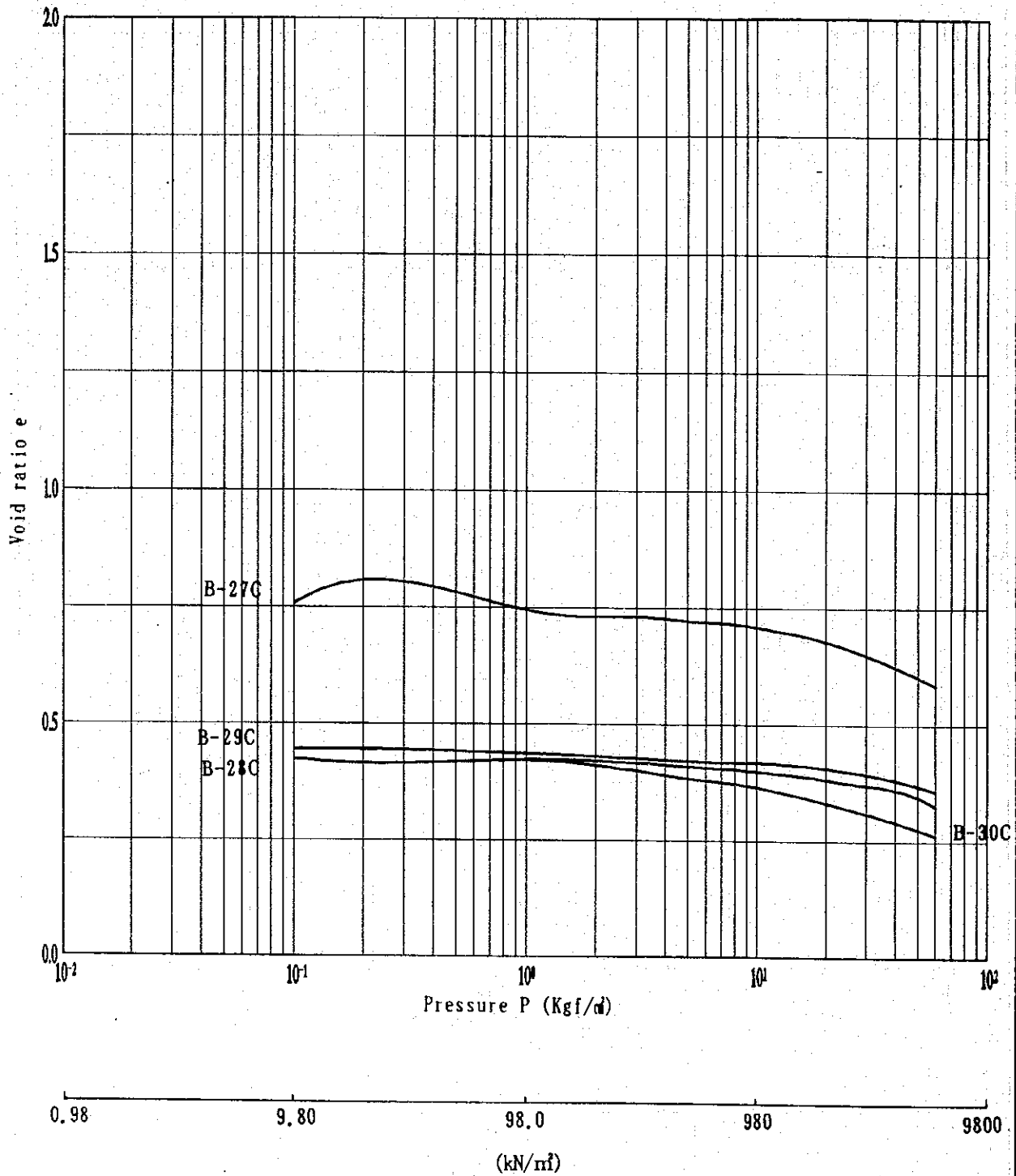


$e \sim \log P$ Curve at Site-B
[Pd]

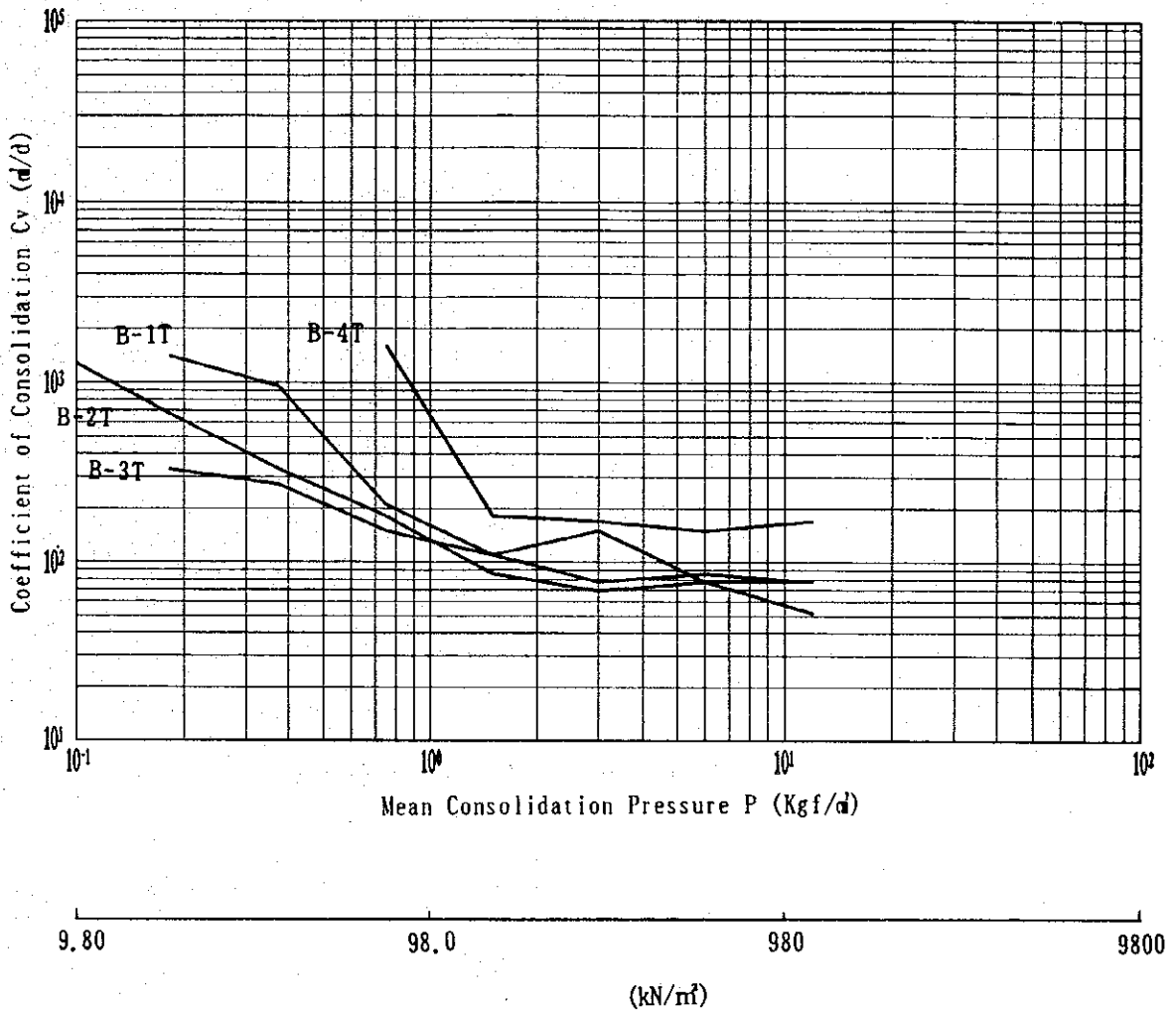
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDECE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | KOKUSAI KOGYO CO., LTD



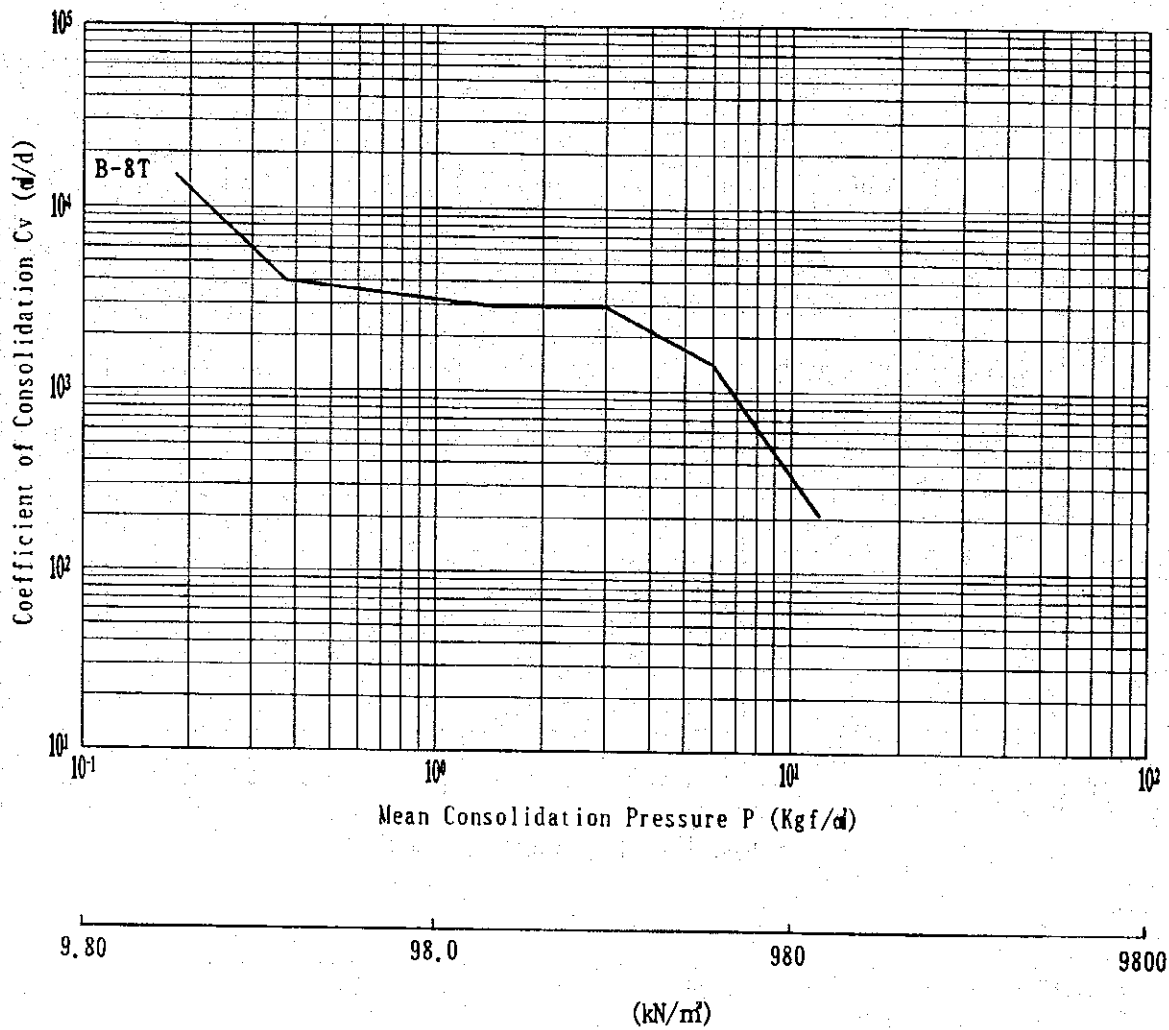
e ~ log P Curve at Site-B [N1]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD



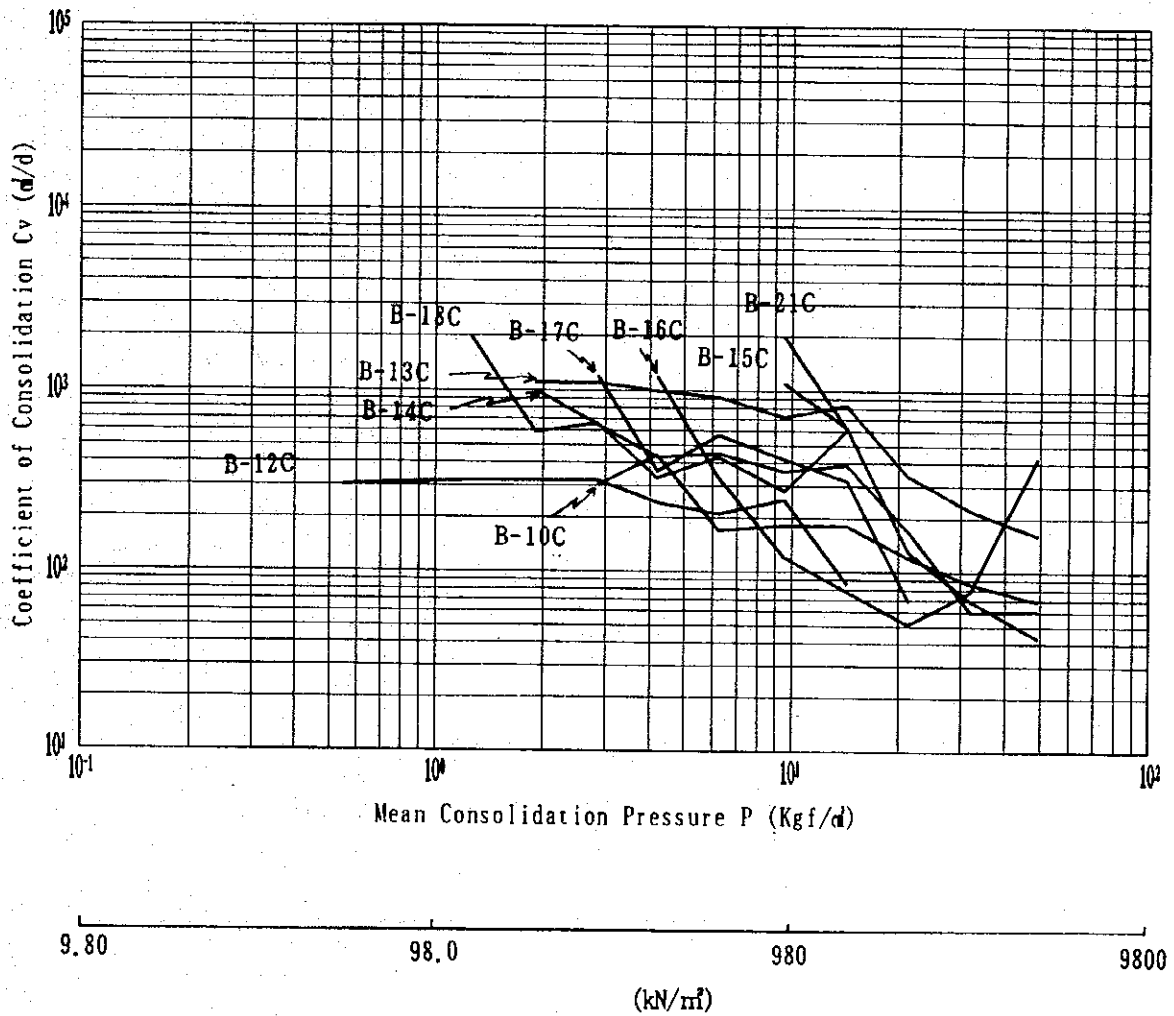
e ~ log P Curve at Site-B	
[Nb]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE	
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD



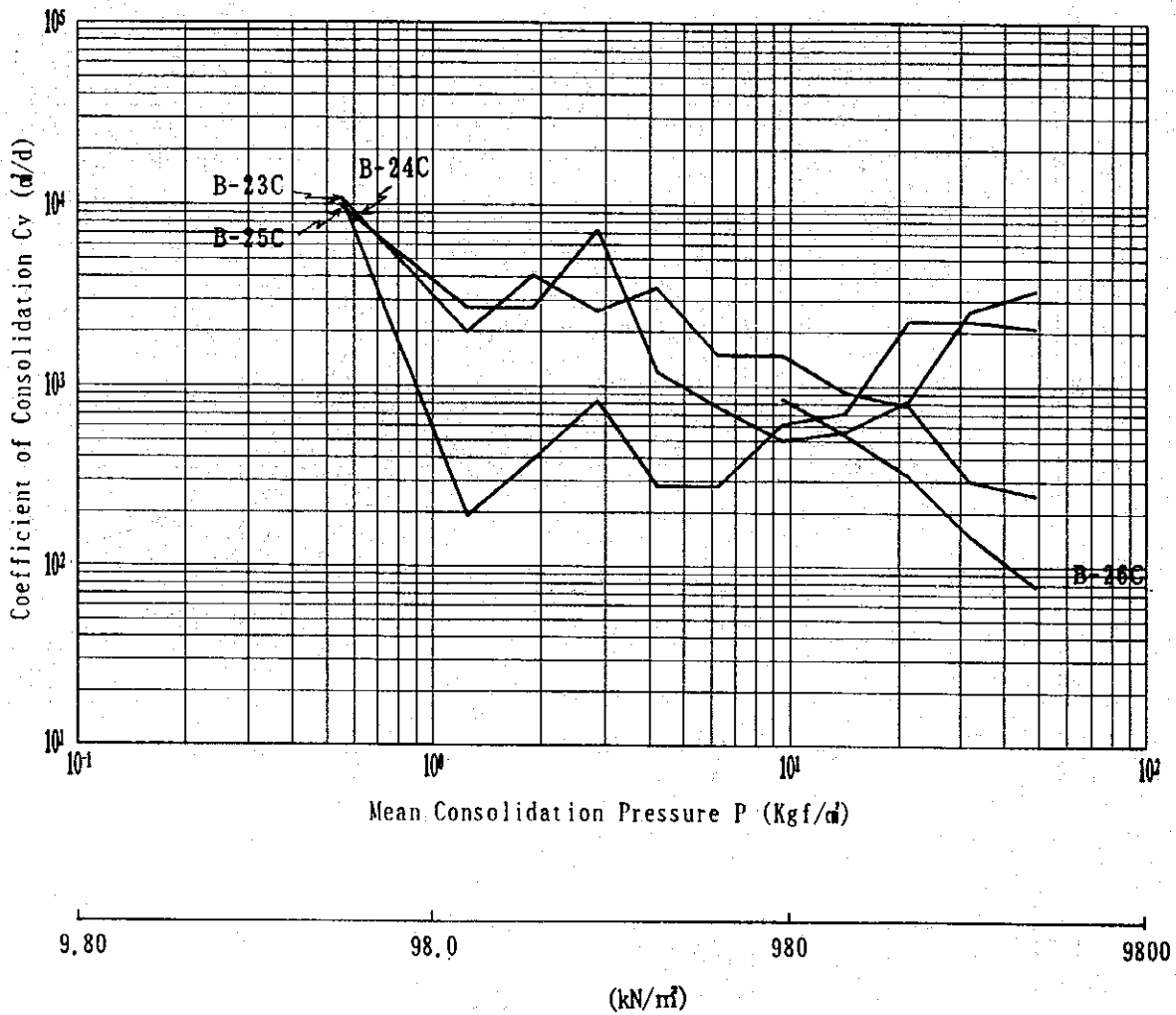
Coefficient of Consolidation, C_v versus Pressure Curves at Site-B [Sf]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD



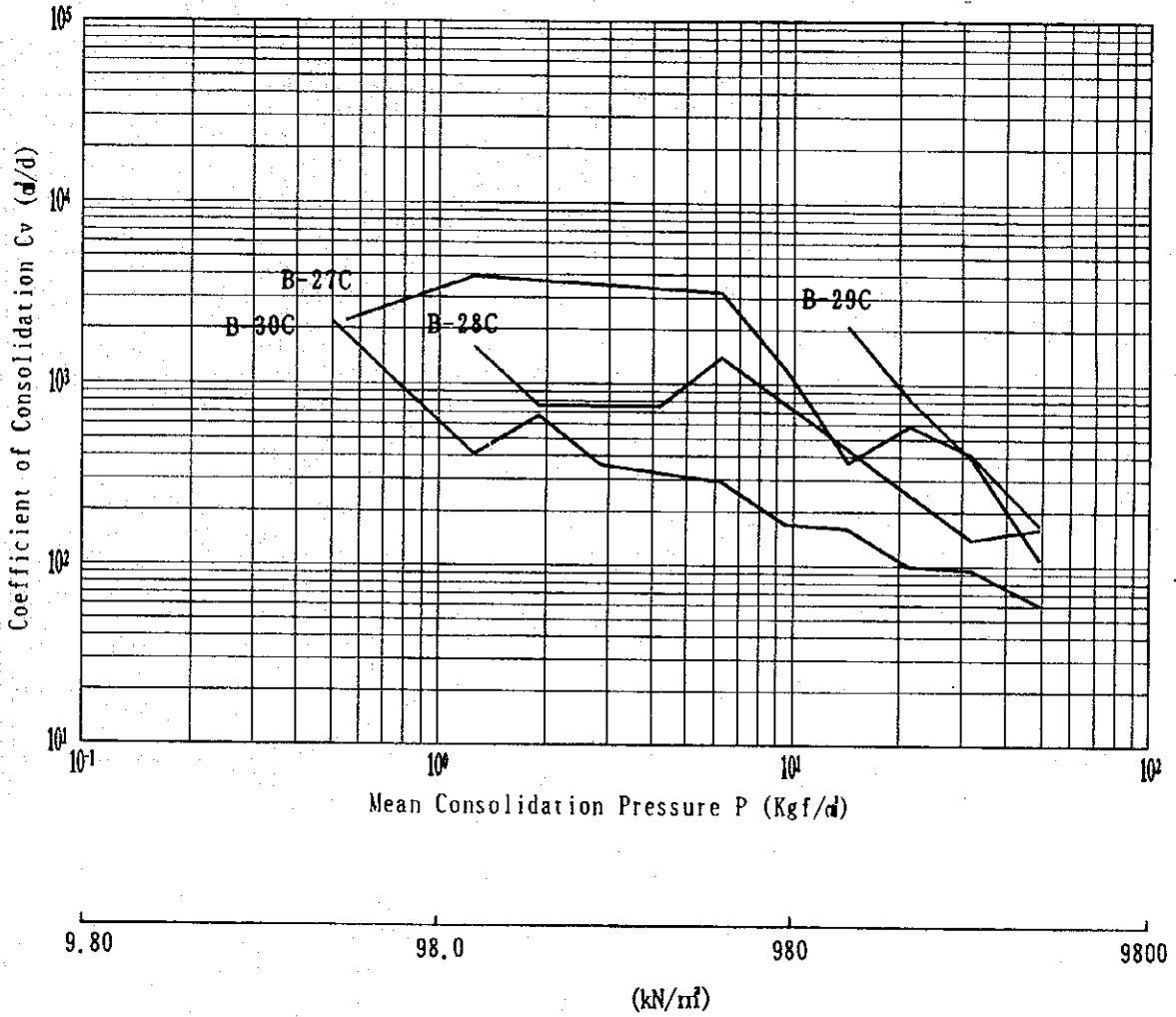
	Coefficient of Consolidation, C_v versus Pressure Curves at Site-B [Bk]
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDECE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD



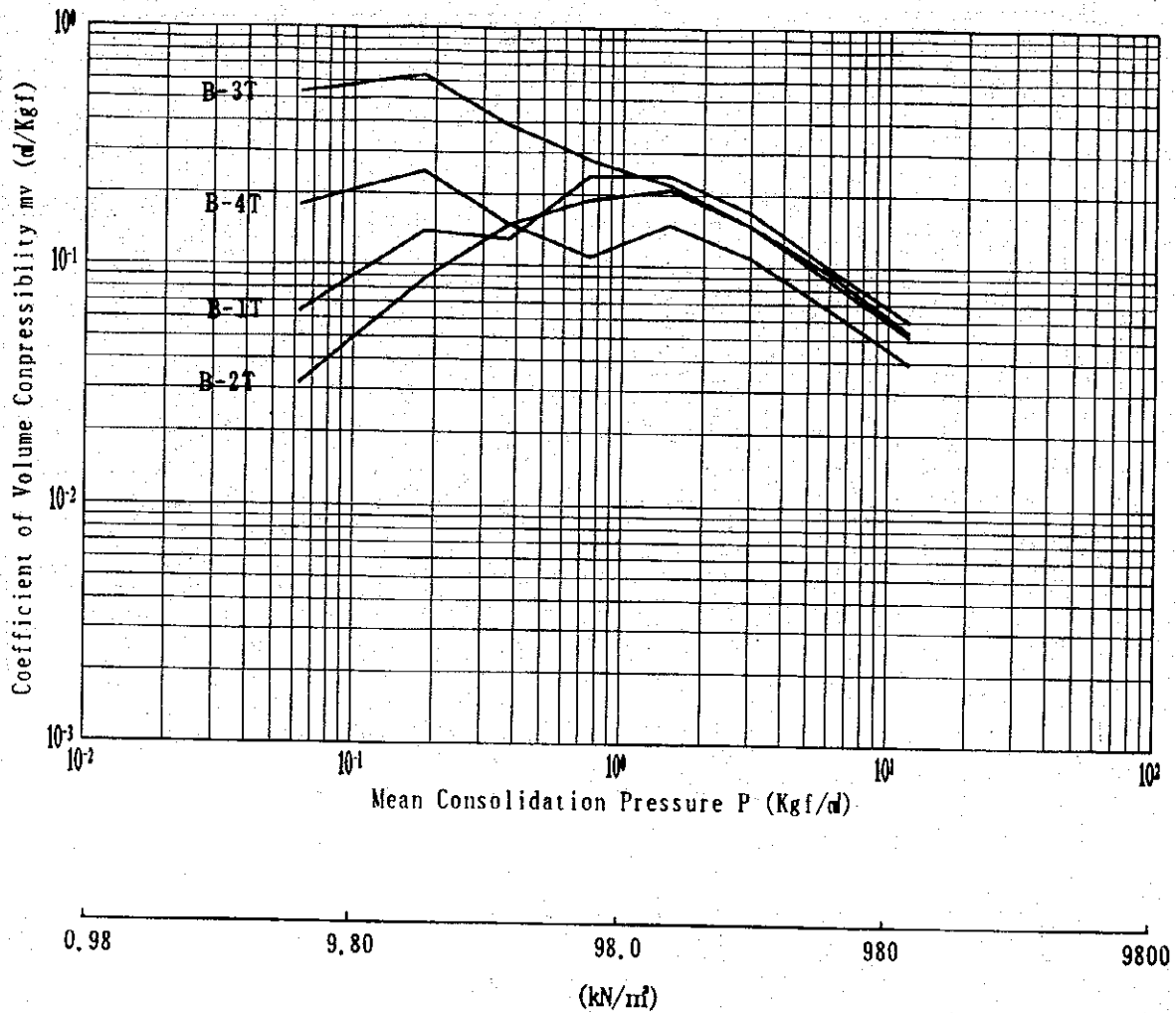
Coefficient of Consolidation, C_v versus Pressure Curves at Site-B [Pd]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDECE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD



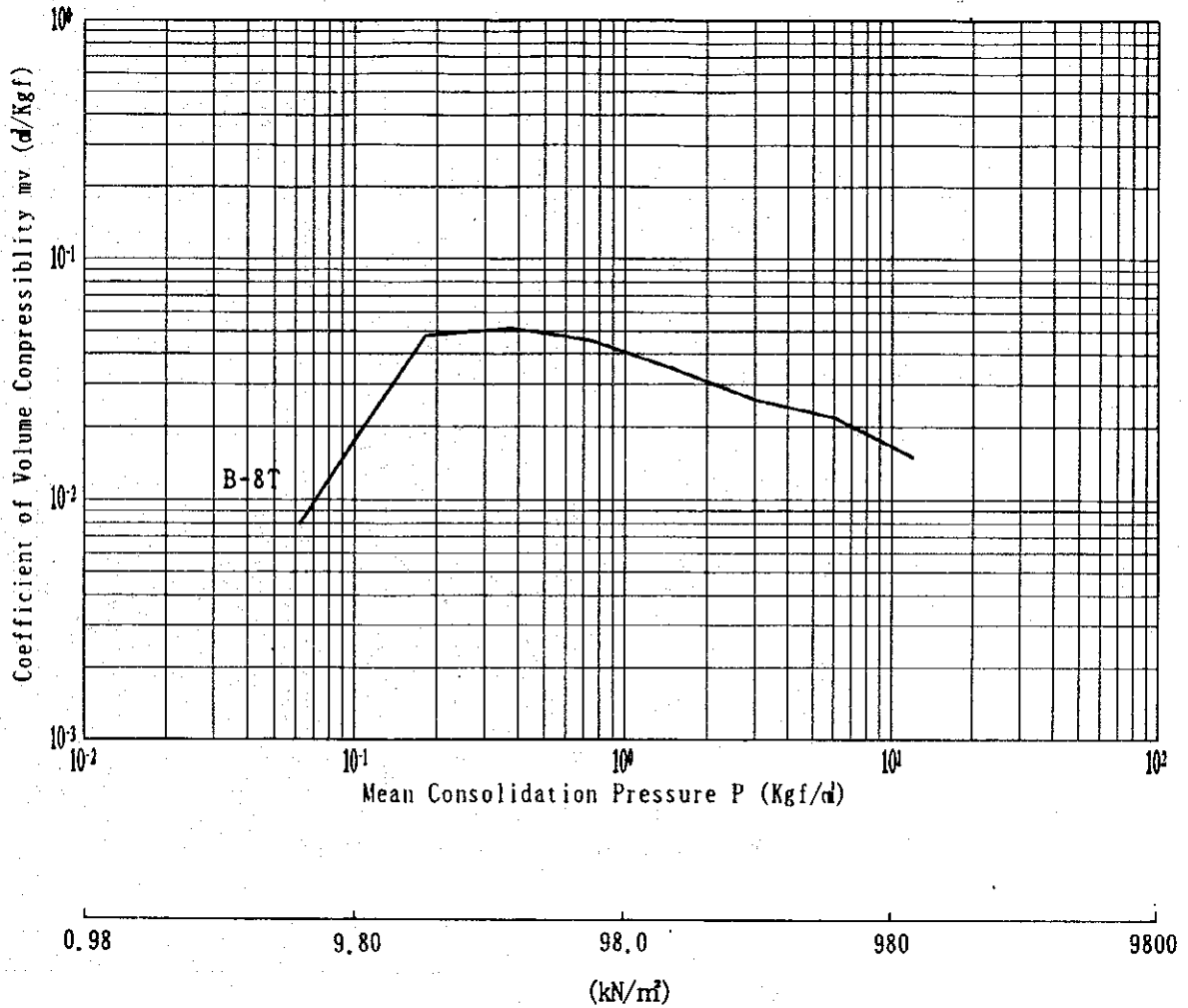
Coefficient of Consolidation, Cv versus Pressure Curves at Site-B [NI]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD



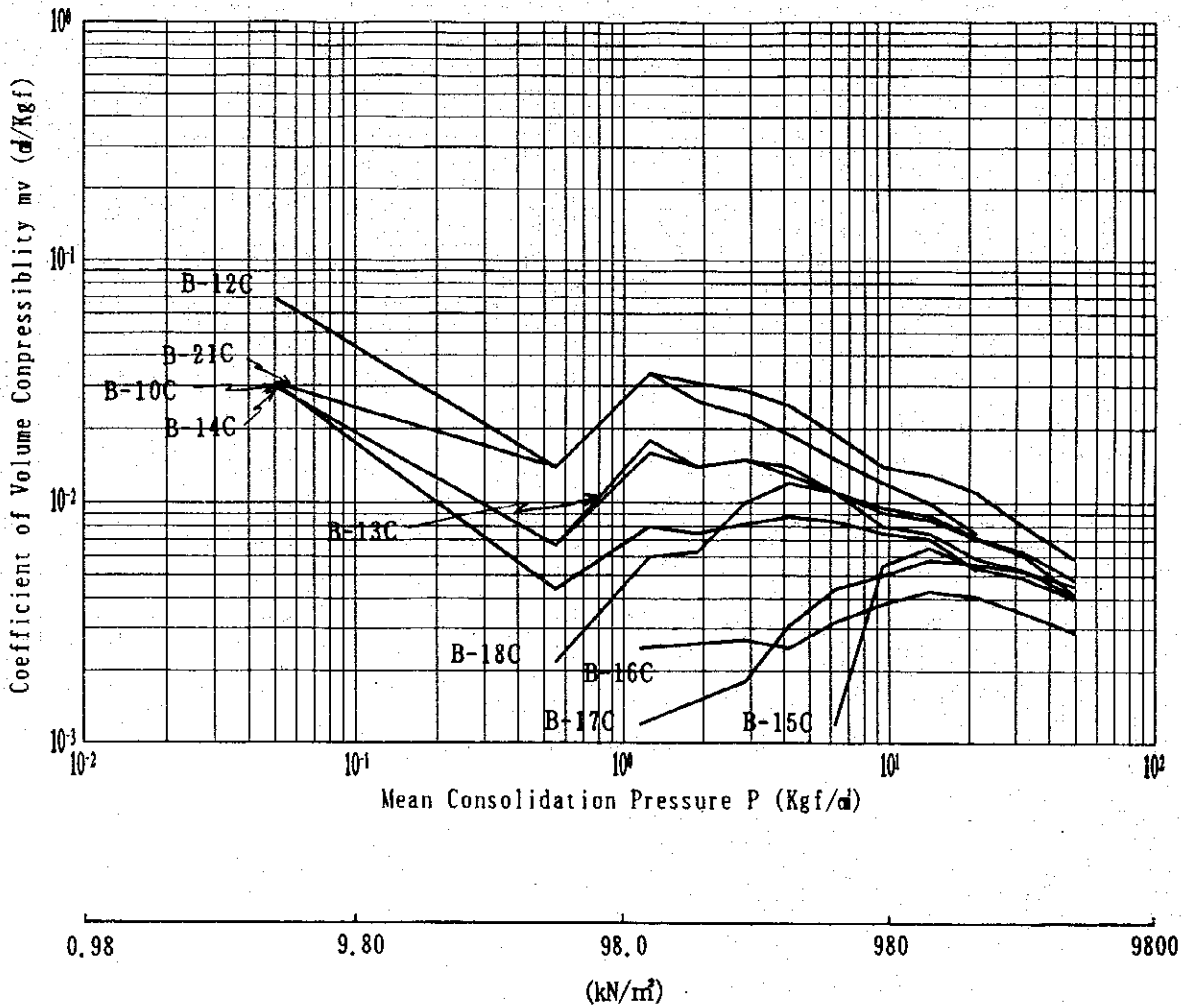
Coefficient of Consolidation, Cv versus Pressure Curves at Site-B [Nb]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDECE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
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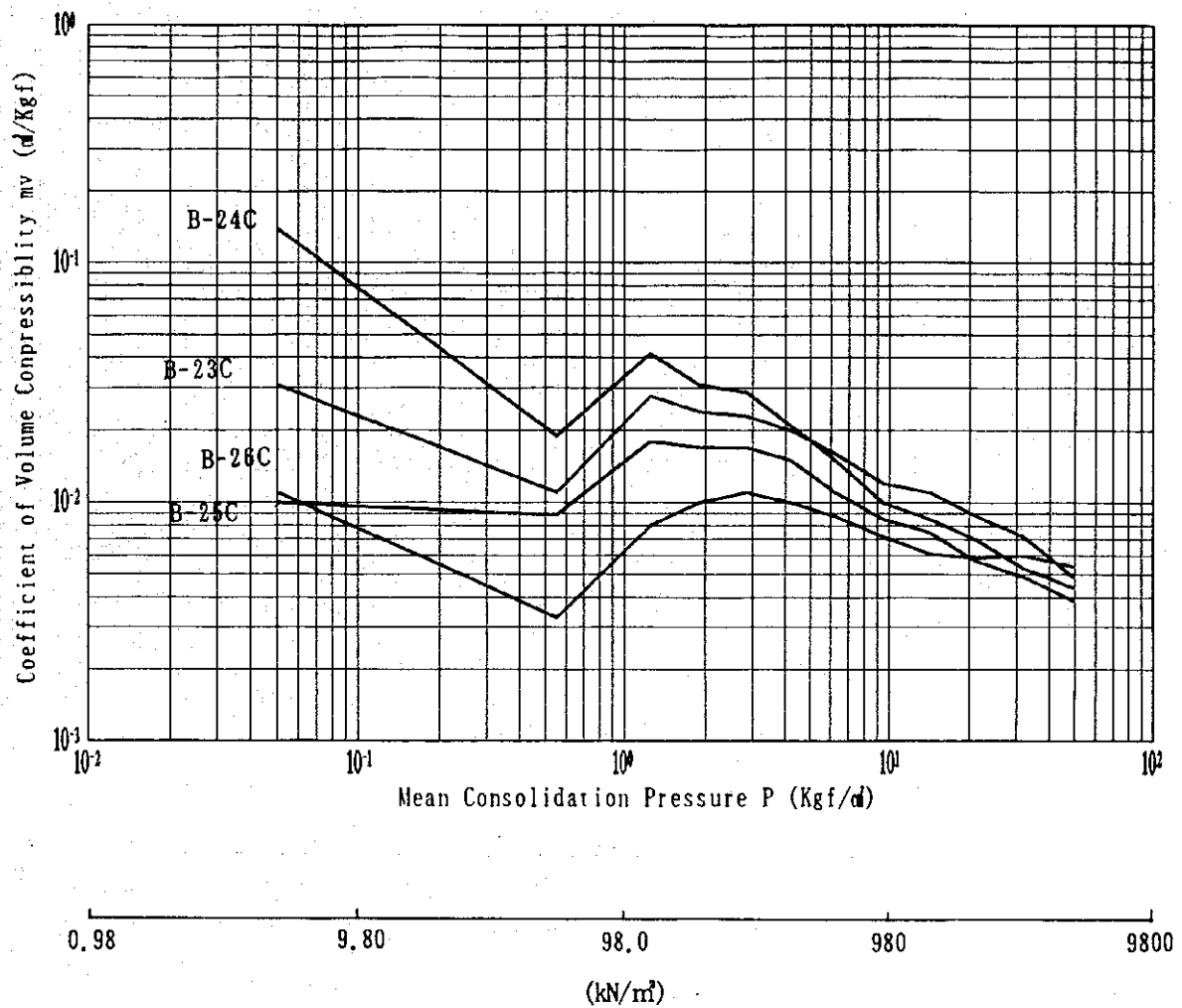
Coefficient of Volume Compressibility, mv versus Pressure Curves at Site-B [Sf]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
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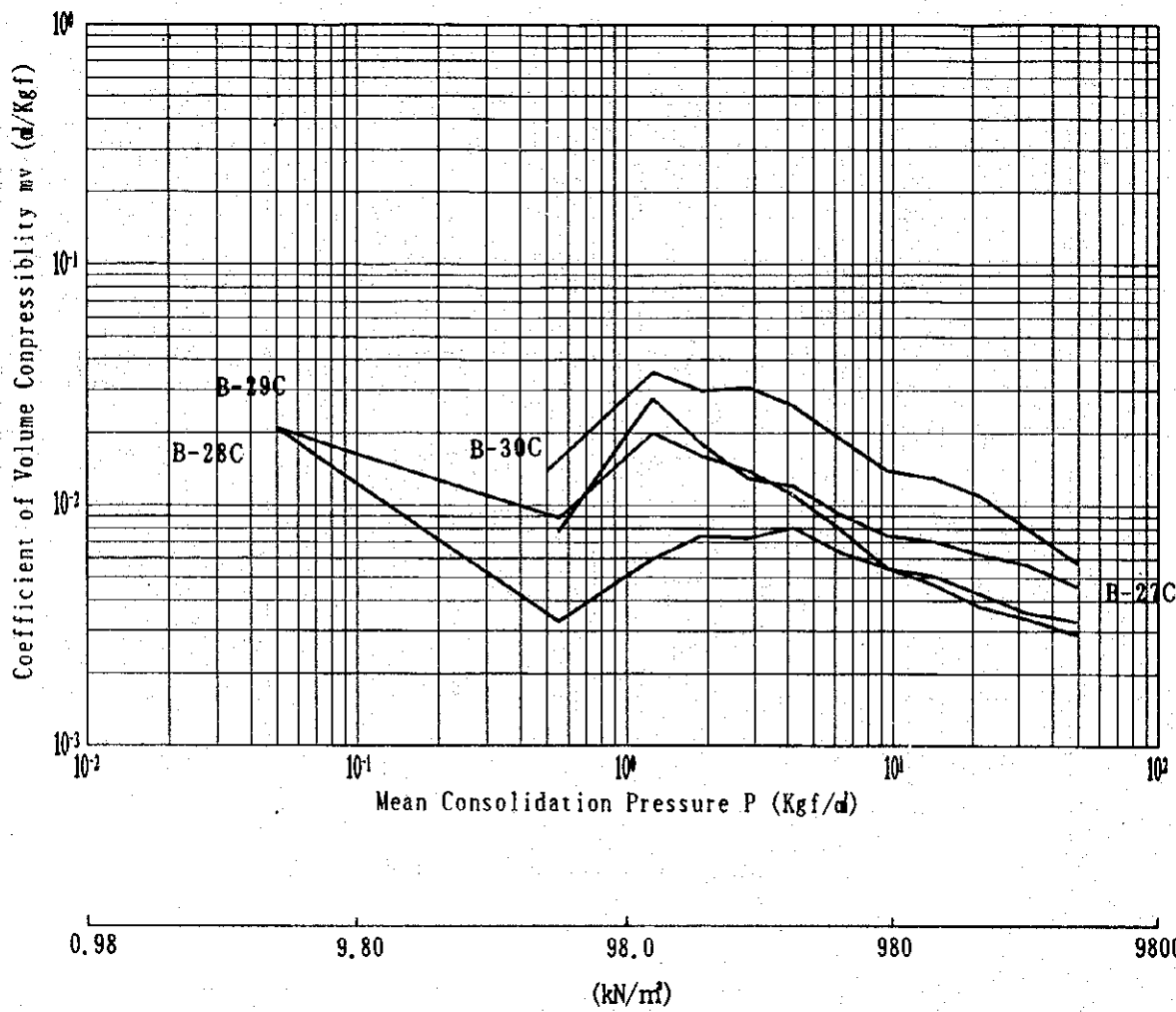
Coefficient of Volume Compressibility, mv versus Pressure Curves at Site-B [Bk]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDECE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
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Coefficient of Volume Compressibility, m_v versus Pressure Curves at Site-B [Pd]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
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Coefficient of Volume Compressibility, mv versus Pressure Curves at Site-B [N1]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDECE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
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Coefficient of Volume Compressibility, mv versus Pressure Curves at Site-B [Nb]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
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ASIAN INSTITUTE OF TECHNOLOGY
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GRAIN SIZE ANALYSIS

Project: Subsidence in Bangkok Vicinity
 Borehole No.: B Depth (m) 2-2.8
 Soil Description: _____

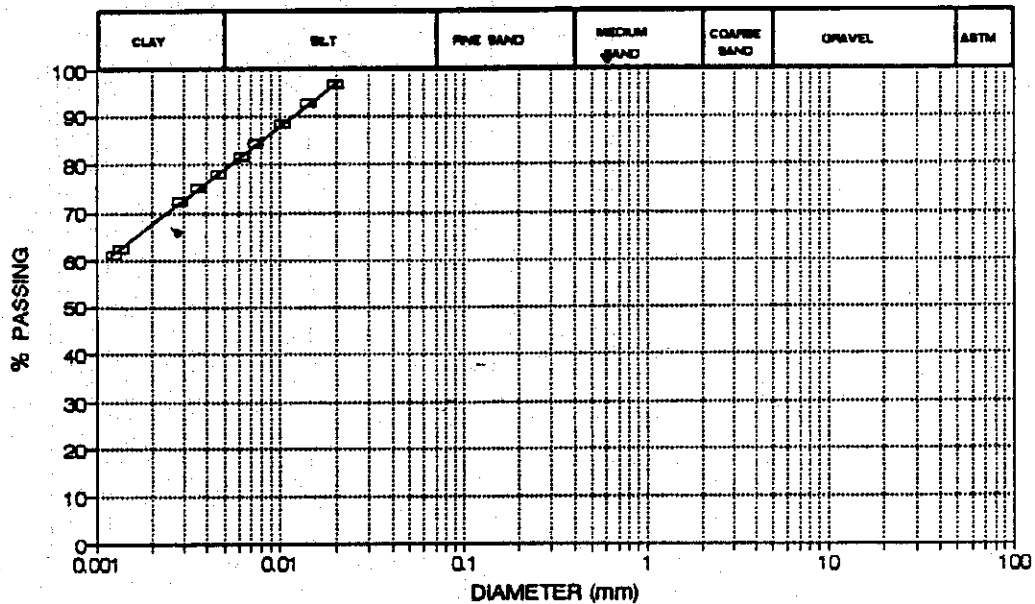
Location: AIT
 Sample No.: _____ Test No.: AH-23
 Tested By: WY Date: 25-1-93

SIEVE ANALYSIS

Opening (mm)	Percent Finer (%)
4.76	
2.00	
0.84	
0.69	
0.42	
0.30	
0.15	
0.07	

HYDROMETER ANALYSIS

Particle Size (mm)	Percent Finer (%)
0.0198	96.99
0.0143	92.94
0.0103	88.54
0.0074	84.49
0.0061	81.78
0.0047	78.08
0.0036	75.38
0.0029	72.67
0.0014	62.54
0.0013	61.52
0.0010	59.16



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GRAIN SIZE ANALYSIS

Project: Subsidence in Bangkok Vicinity

Location: AIT

Borehole No.: B **Depth (m):** 4-4.8

Sample No.:

Test No.: AH-24

Soil Description:

Tested By: WY

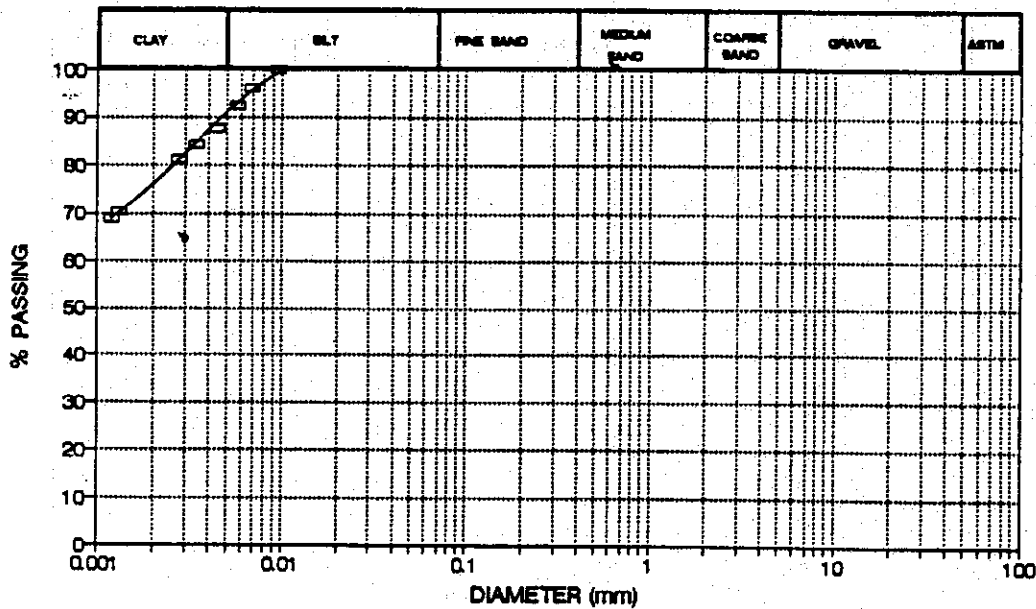
Date: 6-2-1993

SIEVE ANALYSIS

Opening (mm)	Percent Finer (%)
4.76	
2.00	
0.84	
0.60	
0.42	
0.30	
0.15	
0.07	

HYDROMETER ANALYSIS

Particle Size (mm)	Percent Finer (%)
0.0096	99.95
0.0060	96.02
0.0050	92.74
0.0044	87.85
0.0034	84.57
0.0027	81.62
0.0013	70.48
0.0012	68.84



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GRAIN SIZE ANALYSIS

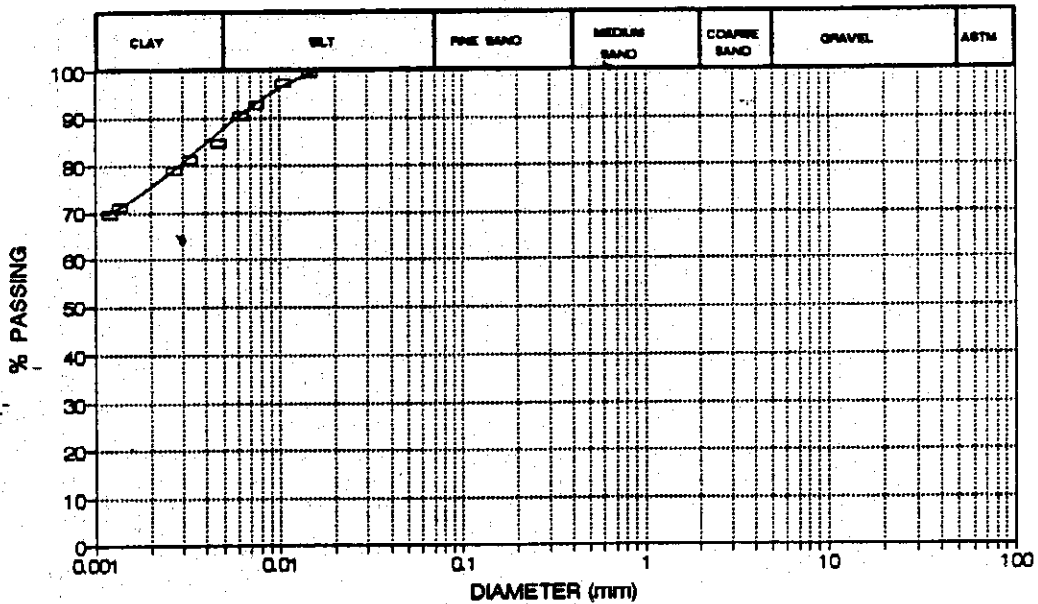
Project: Subsidence in Bangkok Vicinity Location: AIT
 Borehole No.: B Depth (m) 6-6.8 Sample No.: _____ Test No.: AH-25
 Soil Description: _____ Tested By: WY Date: 20-1-93

SIEVE ANALYSIS

Opening (mm)	Percent Finer (%)
4.76	
2.00	
0.84	
0.59	
0.42	
0.30	
0.15	
0.07	

HYDROMETER ANALYSIS

Particle Size (mm)	Percent Finer (%)
0.0147	99.61
0.0105	97.38
0.0075	92.92
0.0062	90.69
0.0047	84.75
0.0033	81.41
0.0027	79.18
0.0014	71.37
0.0012	69.88
0.0010	66.90



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GRAIN SIZE ANALYSIS

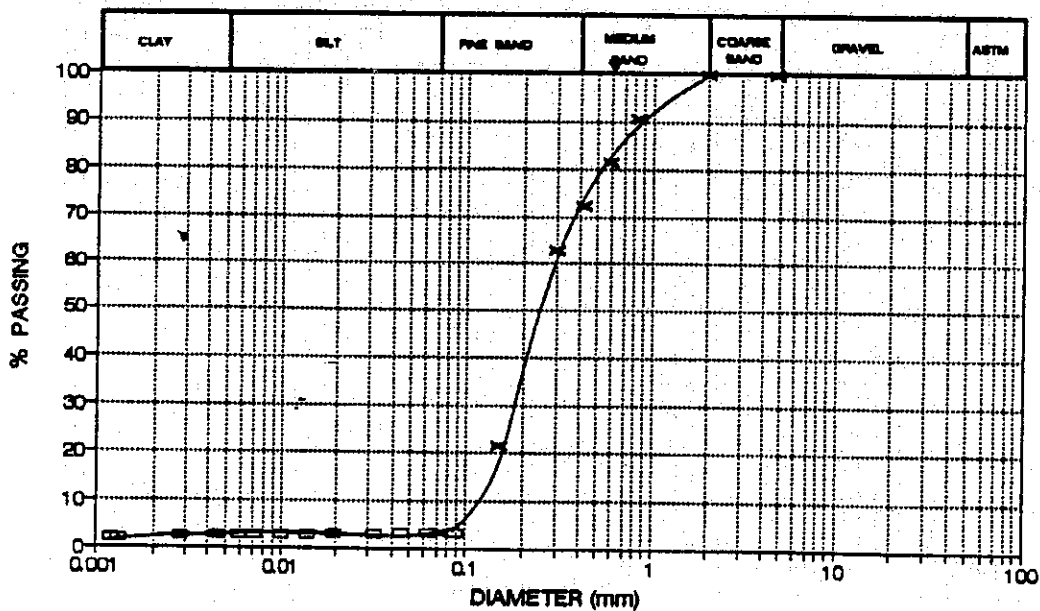
Project: Subsidence in Bangkok Vicinity Location: AJT
 Borehole No.: B Depth (m): 6-6.6 Sample No.: _____ Test No.: AH-26
 Soil Description: _____ Tested By: WY Date: 25-1-93

SIEVE ANALYSIS

Opening (mm)	Percent Finer (%)
4.76	100.00
2.00	100.00
0.84	90.90
0.59	81.80
0.42	72.60
0.30	62.90
0.15	21.70
0.07	3.20

HYDROMETER ANALYSIS

Particle Size (mm)	Percent Finer (%)
0.0685	3.28
0.0631	3.23
0.0451	3.16
0.0322	3.09
0.0322	3.10
0.0195	3.01
0.0140	2.94
0.0100	2.84
0.0072	2.77
0.0059	2.71
0.0045	2.60
0.0028	2.43
0.0013	2.17
0.0012	2.15
0.0009	2.10
0.0009	2.08



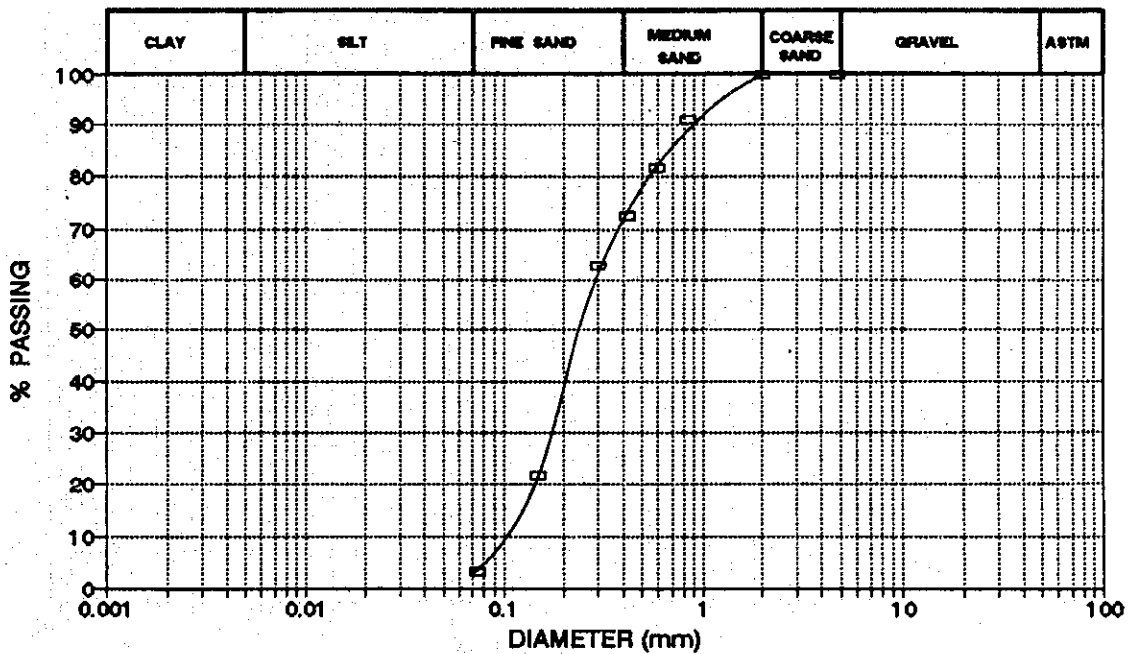
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SIEVE ANALYSIS

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: B-1/3 Depth (m) 8.00-9.00 Sample No.: UD-T-4 Test No.: S-28
 Soil Description: _____ Tested By: WY Date: 5-2-1993

Container No.:	
Weight of Container	100.00 g
Weight of Container+ Dry Soil	280.00 g
Weight of Dry Soil	180.00 g

Sieve No.	Sieve Opening (mm)	Weight of Soil Retained (g)	Cumulative Retained (g)	Cumulative Retained (%)	Percent Finer
4	4.76	0.00	0.00	0.0	100.0
10	2.00	0.00	0.00	0.0	100.0
20	0.84	16.35	16.35	9.1	90.9
30	0.59	16.41	32.76	18.2	81.8
40	0.42	16.48	49.24	27.4	72.6
50	0.30	17.58	66.82	37.1	62.9
100	0.15	74.14	140.96	78.3	21.7
200	0.07	33.36	174.32	96.8	3.2



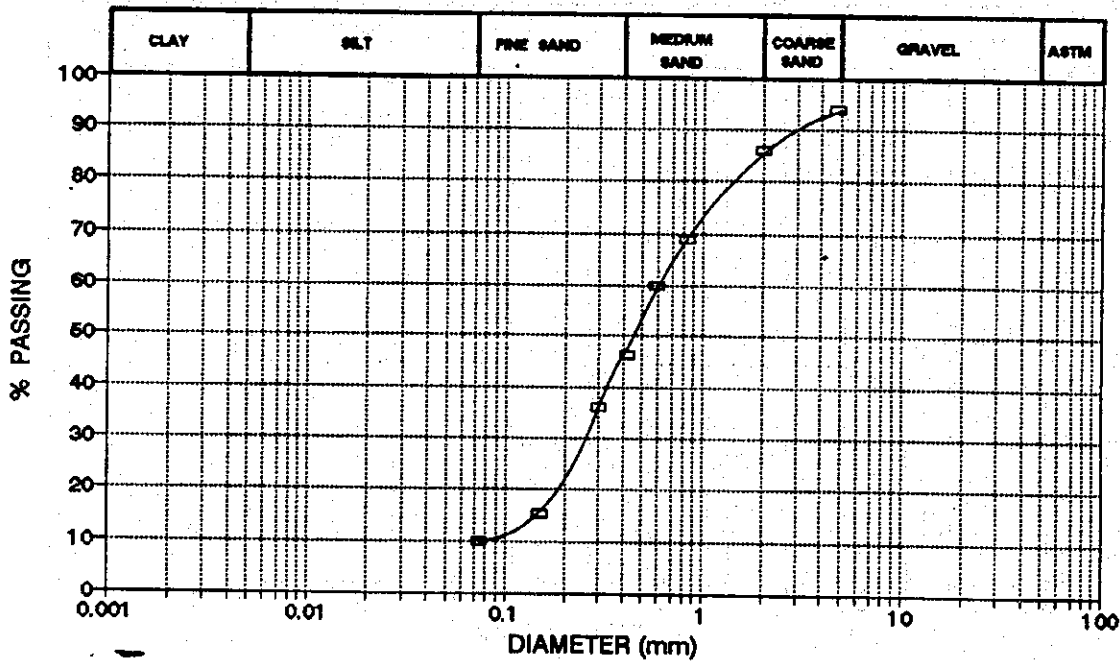
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SIEVE ANALYSIS

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: B-1/3 Depth (m) 18.00-18.45 Sample No.: SS-19 Test No.: S-27
 Soil Description: _____ Tested By: WY Date: 5-2-1993

Container No.:	
Weight of Container	100.00 g
Weight of Container + Dry Soil	400.00 g
Weight of Dry Soil	300.00 g

Sieve No.	Sieve Opening (mm)	Weight of Soil Retained (g)	Cumulative Retained (g)	Cumulative Retained (%)	Percent Finer
4	4.76	17.59	17.59	5.9	94.1
10	2.00	24.21	41.80	13.9	86.1
20	0.84	51.07	92.87	31.0	69.0
30	0.59	27.22	120.09	40.0	60.0
40	0.42	41.11	161.20	53.7	46.3
50	0.30	30.30	191.50	63.8	36.2
100	0.15	62.83	254.33	84.8	15.2
200	0.07	15.84	270.17	90.1	9.9



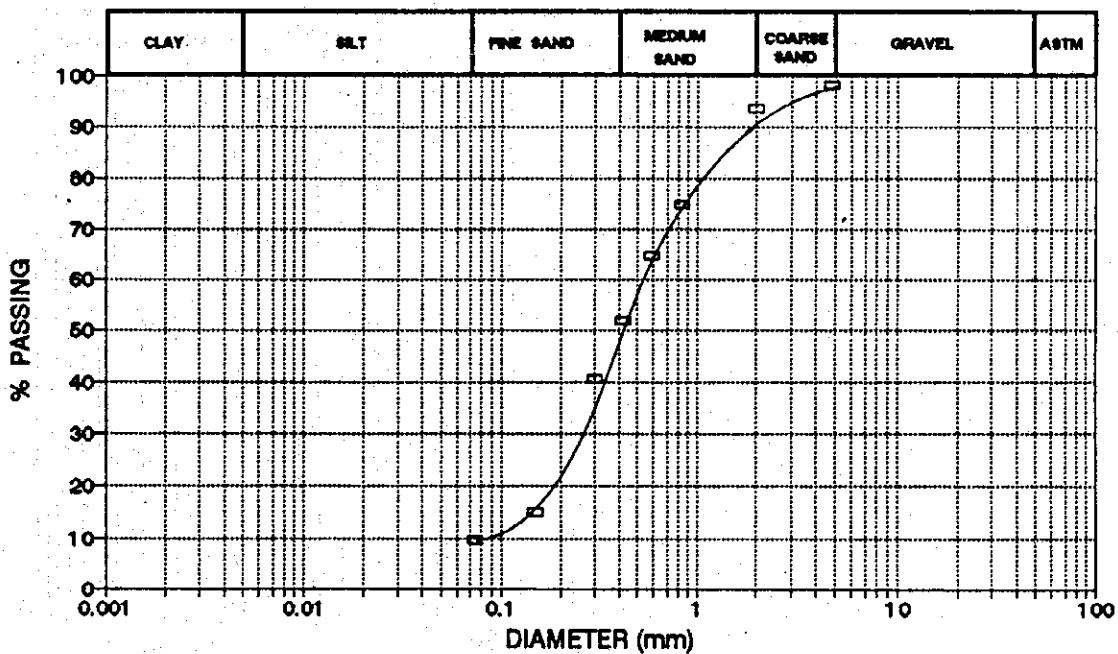
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SIEVE ANALYSIS

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: B-1/3 Depth (m) 21.00-21.45 Sample No.: SS-22 Test No.: S-26
 Soil Description: _____ Tested By: WY Date: 5-2-1993

Container No.:	
Weight of Container	100.00 g
Weight of Container + Dry Soil	450.00 g
Weight of Dry Soil	350.00 g

Sieve No.	Sieve Opening (mm)	Weight of Soil Retained (g)	Cumulative Retained (g)	Cumulative Retained (%)	Percent Finer
4	4.76	6.65	6.65	1.9	98.1
10	2.00	15.87	22.52	6.4	93.6
20	0.84	64.72	87.24	24.9	75.1
30	0.59	35.82	123.06	35.2	64.8
40	0.42	45.13	168.19	48.1	51.9
50	0.30	40.20	208.39	59.5	40.5
100	0.15	89.14	297.53	85.0	15.0
200	0.07	18.94	316.47	90.4	9.6



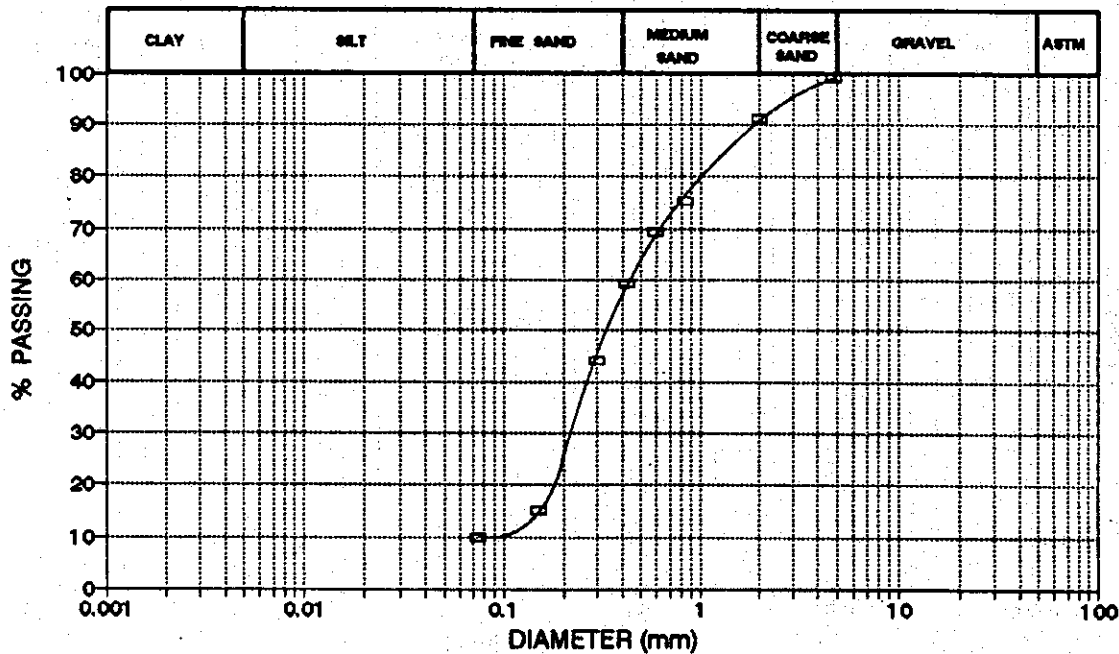
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SIEVE ANALYSIS

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: B-1/3 Depth (m) 31.00-31.45 Sample No.: SS-32 Test No.: S-25
 Soil Description: _____ Tested By: WY Date: 5-2-1993

Container No.:	
Weight of Container	100.00 g
Weight of Container + Dry Soil	460.00 g
Weight of Dry Soil	360.00 g

Sieve No.	Sieve Opening (mm)	Weight of Soil Retained (g)	Cumulative Retained (g)	Cumulative Retained (%)	Percent Finer
4	4.76	2.99	2.99	0.8	99.2
10	2.00	27.86	30.85	8.6	91.4
20	0.84	57.76	88.61	24.6	75.4
30	0.59	21.00	109.61	30.4	69.6
40	0.42	36.92	146.53	40.7	59.3
50	0.30	54.13	200.66	55.7	44.3
100	0.15	105.07	305.73	84.9	15.1
200	0.07	19.47	325.20	90.3	9.7



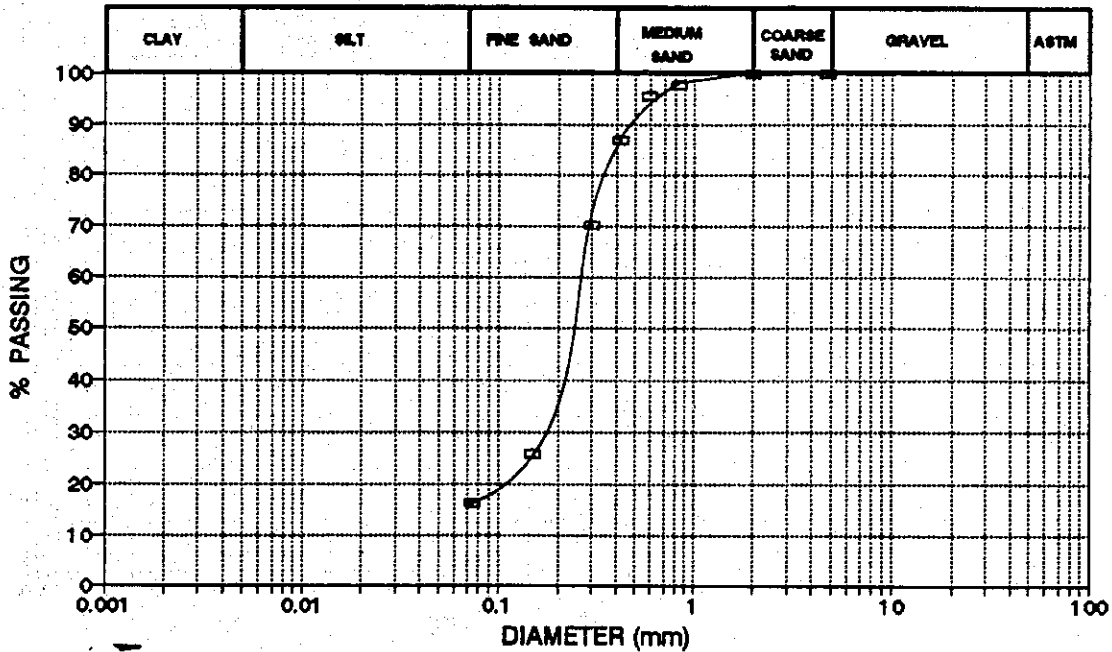
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SIEVE ANALYSIS

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: B-1/3 Depth (m) 36.00-36.45 Sample No.: SS-37 Test No.: S-24
 Soil Description: _____ Tested By: WY Date: 5-2-1993

Container No.:	
Weight of Container	100.00 g
Weight of Container + Dry Soil	500.00 g
Weight of Dry Soil	400.00 g

Sieve No.	Sieve Opening (mm)	Weight of Soil Retained (g)	Cumulative Retained (g)	Cumulative Retained (%)	Percent Finer
4	4.76	0.00	0.00	0.0	100.0
10	2.00	0.27	0.27	0.1	99.9
20	0.84	8.92	9.19	2.3	97.7
30	0.59	9.09	18.28	4.6	95.4
40	0.42	33.51	51.79	12.9	87.1
50	0.30	67.52	119.31	29.8	70.2
100	0.15	177.07	296.38	74.1	25.9
200	0.07	38.79	335.17	83.8	16.2



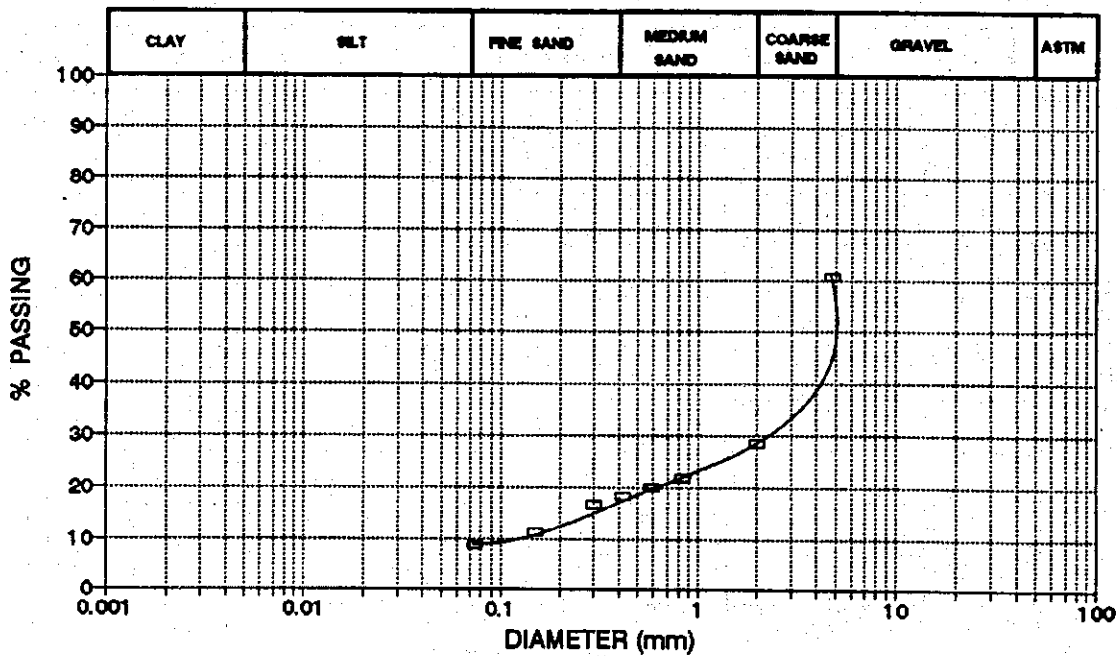
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SIEVE ANALYSIS

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: B-1/3 Depth (m) 41.00-41.45 Sample No.: SS-42 Test No.: S-23
 Soil Description: _____ Tested By: WY Date: 5-2-1993

Container No.:	
Weight of Container	100.00 g
Weight of Container + Dry Soil	450.00 g
Weight of Dry Soil	350.00 g

Sieve No.	Sieve Opening (mm)	Weight of Soil Retained (g)	Cumulative Retained (g)	Cumulative Retained (%)	Percent Finer
4	4.76	137.44	137.44	39.3	60.7
10	2.00	112.95	250.39	71.5	28.5
20	0.84	23.41	273.80	78.2	21.8
30	0.59	5.58	279.38	79.8	20.2
40	0.42	6.74	286.12	81.7	18.3
50	0.30	5.81	291.93	83.4	16.6
100	0.15	18.51	310.44	88.7	11.3
200	0.07	9.43	319.87	91.4	8.6



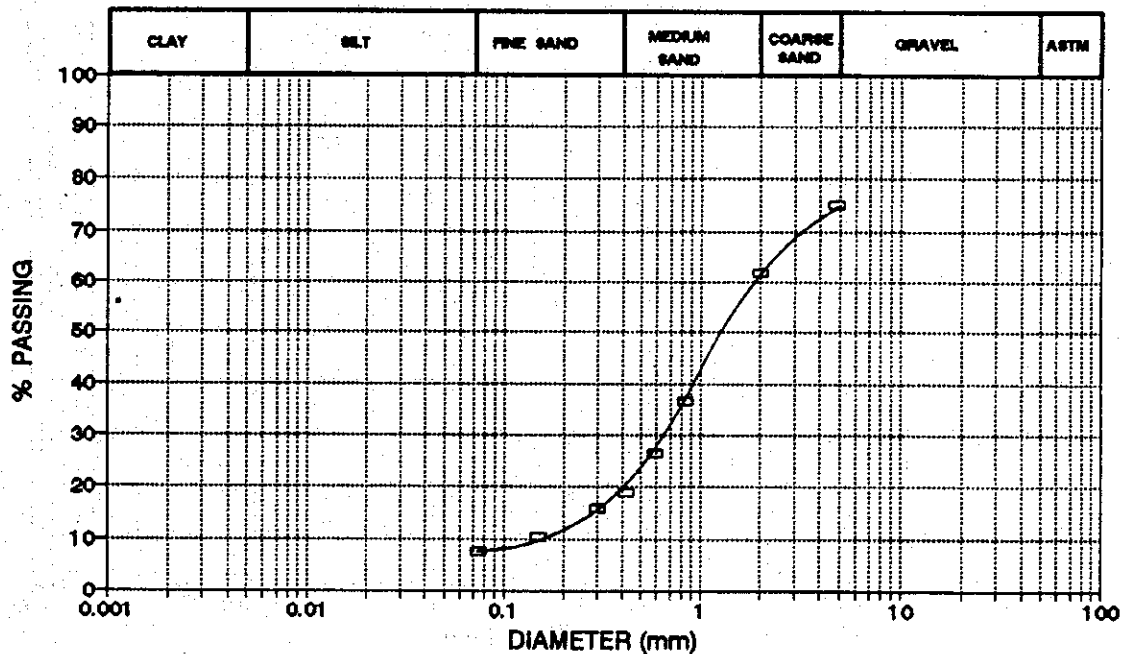
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SIEVE ANALYSIS

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: B-1/3 Depth (m) 43.00-43.45 Sample No.: SS-44 Test No.: S-22
 Soil Description: _____ Tested By: WY Date: 5-2-1993

Container No.:	
Weight of Container	100.00 g
Weight of Container + Dry Soil	340.00 g
Weight of Dry Soil	240.00 g

Sieve No.	Sieve Opening (mm)	Weight of Soil Retained (g)	Cumulative Retained (g)	Cumulative Retained (%)	Percent Finer
4	4.76	59.36	59.36	24.7	75.3
10	2.00	32.06	91.42	38.1	61.9
20	0.84	60.45	151.87	63.3	36.7
30	0.59	24.65	176.52	73.6	26.4
40	0.42	18.49	195.01	81.3	18.7
50	0.30	7.09	202.10	84.2	15.8
100	0.15	13.19	215.29	89.7	10.3
200	0.07	6.65	221.94	92.5	7.5



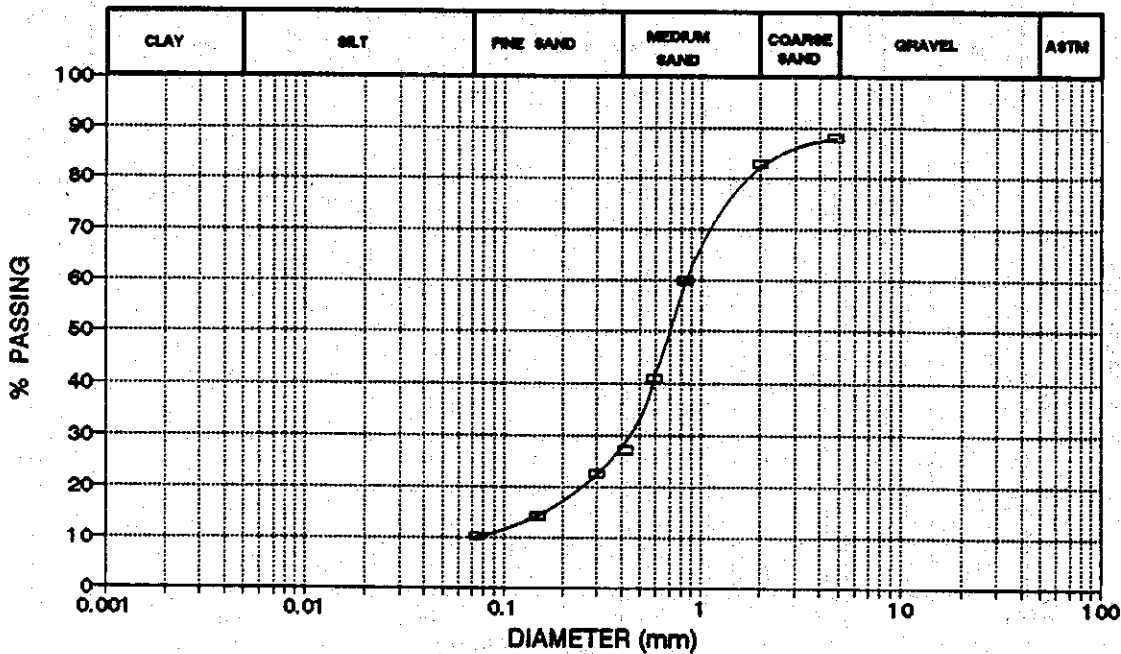
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GEOTECHNICAL AND TRANSPORTATION ENGINEERING DIVISION

SIEVE ANALYSIS

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: B-1/3 Depth (m) 46.00-46.45 Sample No.: SS-47 Test No.: S-21
 Soil Description: _____ Tested By: WY Date: 5-2-1993

Container No.:	
Weight of Container	100.00 g
Weight of Container + Dry Soil	290.00 g
Weight of Dry Soil	190.00 g

Sieve No.	Sieve Opening (mm)	Weight of Soil Retained (g)	Cumulative Retained (g)	Cumulative Retained (%)	Percent Finer
4	4.76	22.55	22.55	11.9	88.1
10	2.00	9.70	32.25	17.0	83.0
20	0.84	43.72	75.97	40.0	60.0
30	0.59	36.15	112.12	59.0	41.0
40	0.42	26.38	138.50	72.9	27.1
50	0.30	8.76	147.26	77.5	22.5
100	0.15	15.87	163.13	85.9	14.1
200	0.07	7.77	170.90	89.9	10.1



ASIAN INSTITUTE OF TECHNOLOGY GEOTECHNICAL AND TRANSPORTATION ENGINEERING DIVISION

GRAIN SIZE ANALYSIS

Project: Subsidence in Bangkok Vicinity
 Borehole No.: B Depth (m) 55.75-55.80
 Soil Description: _____

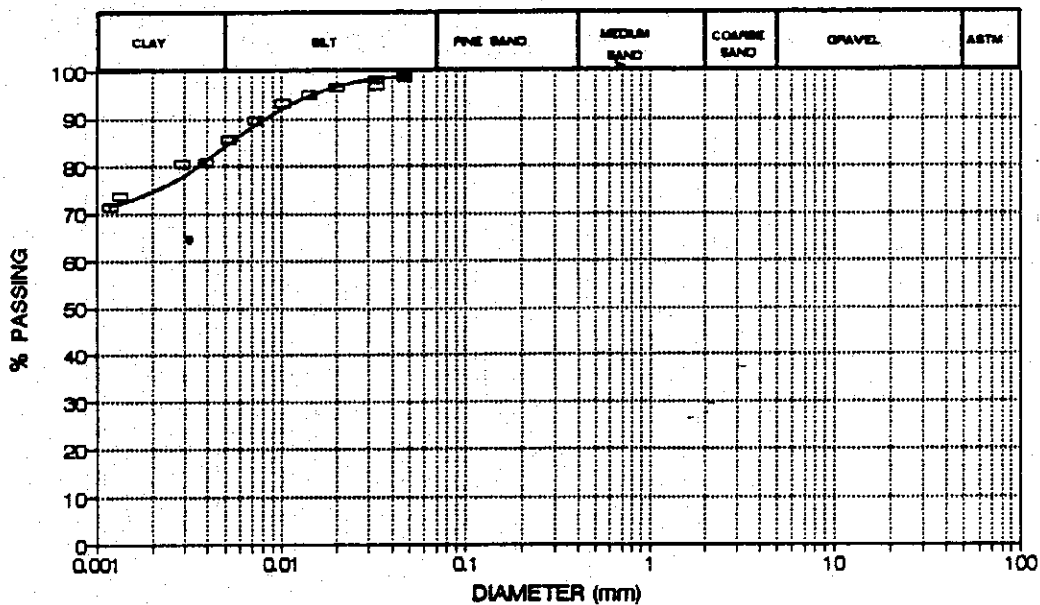
Location: AIT
 Sample No.: _____ Test No.: AH-93
 Tested By: WY Date: 22-4-93

SIEVE ANALYSIS

Opening (mm)	Percent Finer (%)
4.75	
2.00	
0.84	
0.59	
0.42	
0.30	
0.15	
0.07	

HYDROMETER ANALYSIS

Particle Size (mm)	Percent Finer (%)
0.0468	98.67
0.0333	96.91
0.0332	97.96
0.0200	96.55
0.0143	95.14
0.0102	93.38
0.0073	89.86
0.0053	85.63
0.0039	81.06
0.0029	80.70
0.0013	74.00
0.0012	71.53
0.0009	70.48
0.0009	66.97



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GRAIN SIZE ANALYSIS

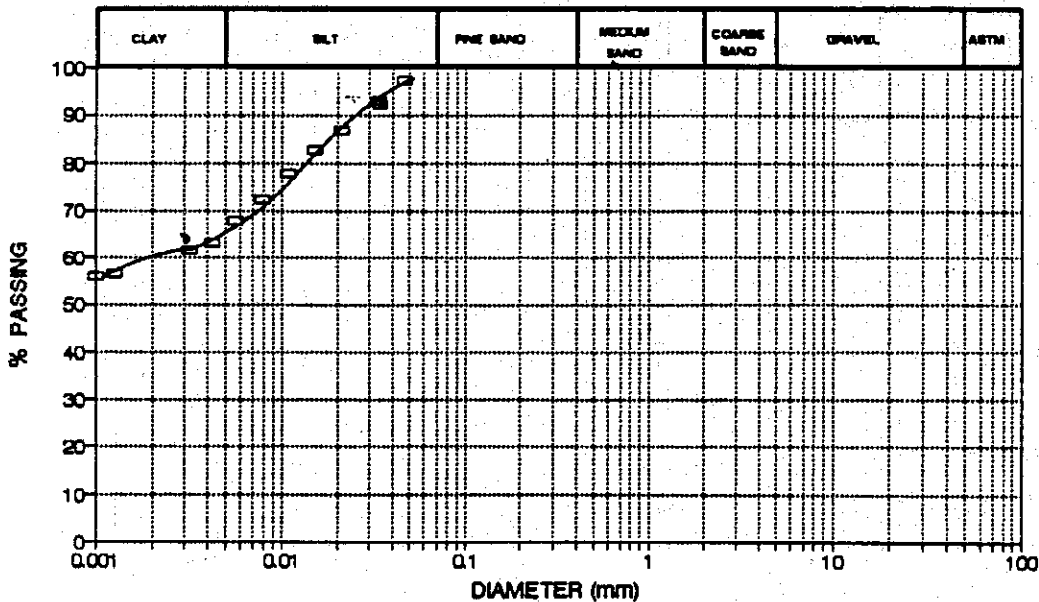
Project: Subsidence in Bangkok Vicinity Location: AIT
 Borehole No.: B Depth (m) 65.35-65.42 Sample No.: _____ Test No.: AH-94
 Soil Description: _____ Tested By: WY Date: 22-4-93

SIEVE ANALYSIS

Opening (mm)	Percent Finer (%)
4.75	
2.00	
0.84	
0.60	
0.42	
0.30	
0.15	
0.07	

HYDROMETER ANALYSIS

Particle Size (mm)	Percent Finer (%)
0.0915	
0.0654	
0.0470	97.27
0.0340	92.29
0.0339	92.96
0.0209	86.98
0.0151	83.00
0.0109	78.02
0.0079	72.70
0.0057	68.06
0.0042	63.08
0.0032	61.75
0.0013	56.44
0.0010	56.11
0.0009	54.46
0.0006	56.12



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GRAIN SIZE ANALYSIS

Project: Subsidence in Bangkok Vicinity
 Borehole No.: B Depth (m) 82.7-82.8
 Soil Description: _____

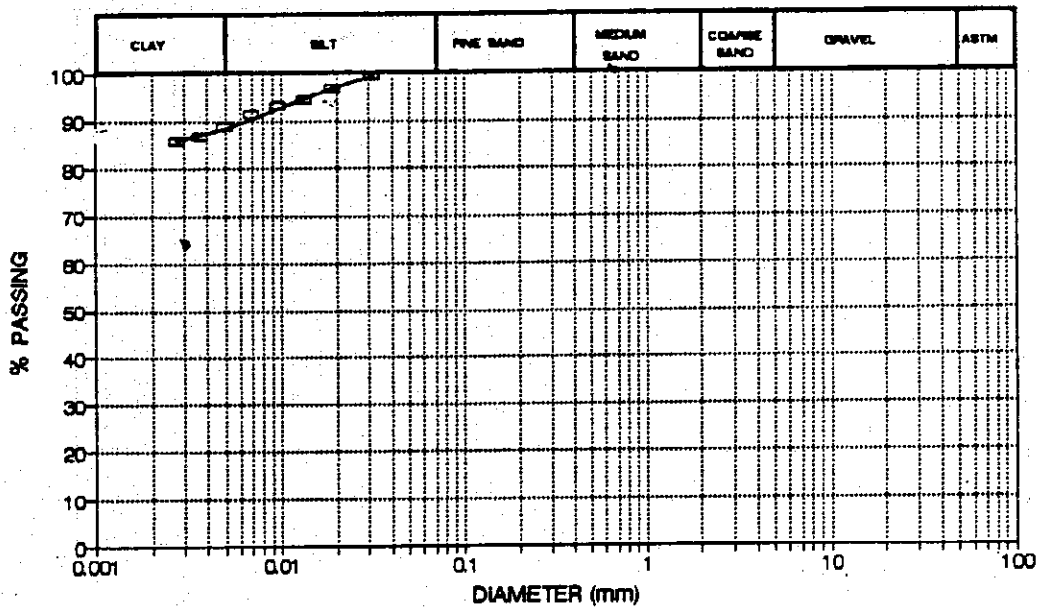
Location: _____
 Sample No.: _____ Test No.: AH-111
 Tested By: WY Date: 22-4-93

SIEVE ANALYSIS

Opening (mm)	Percent Finer (%)
4.76	
2.00	
0.84	
0.59	
0.42	
0.30	
0.15	
0.07	

HYDROMETER ANALYSIS

Particle Size (mm)	Percent Finer (%)
0.0312	99.43
0.0311	99.74
0.0188	96.93
0.0135	94.74
0.0096	93.17
0.0069	91.61
0.0049	89.11
0.0036	86.92
0.0027	85.98



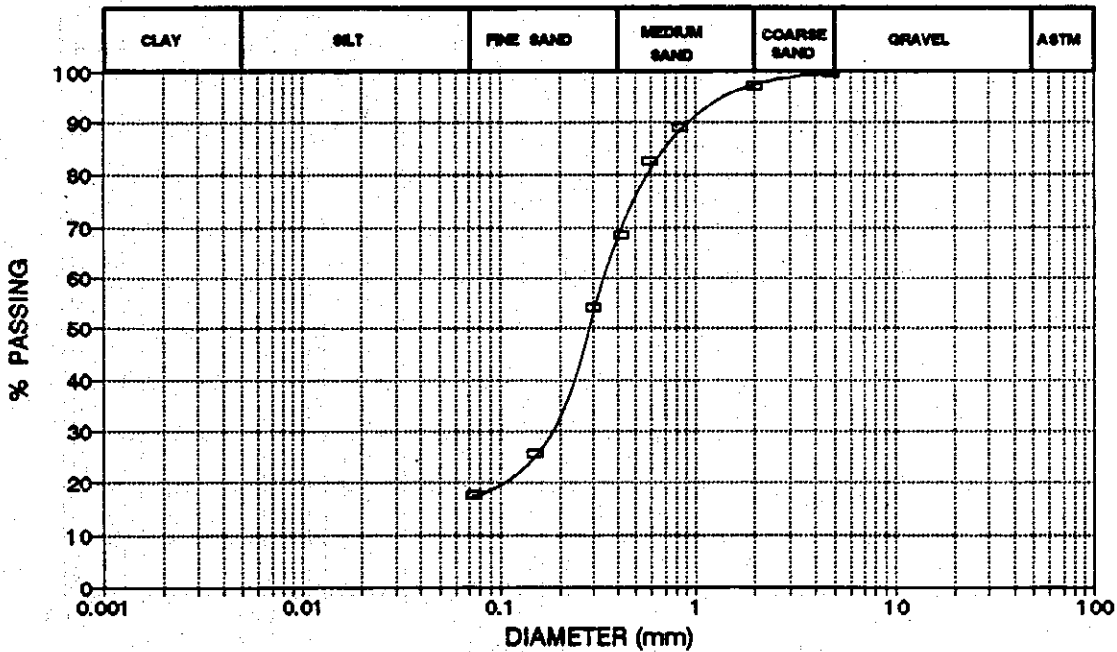
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SIEVE ANALYSIS

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: B-1/1 Depth (m) 103.80-104.00 Sample No.: SS-C-1B Test No.: S-20
 Soil Description: _____ Tested By: WY Date: 5-2-1993

Container No.:	
Weight of Container	100.00 g
Weight of Container + Dry Soil	490.00 g
Weight of Dry Soil	390.00 g

Sieve No.	Sieve Opening (mm)	Weight of Soil Retained (g)	Cumulative Retained (g)	Cumulative Retained (%)	Percent Finer
4	4.76	1.84	1.84	0.5	99.5
10	2.00	9.08	10.92	2.8	97.2
20	0.84	31.70	42.62	10.9	89.1
30	0.59	25.10	67.72	17.4	82.6
40	0.42	54.76	122.48	31.4	68.6
50	0.30	56.65	179.13	45.9	54.1
100	0.15	110.56	289.69	74.3	25.7
200	0.07	31.75	321.44	82.4	17.6



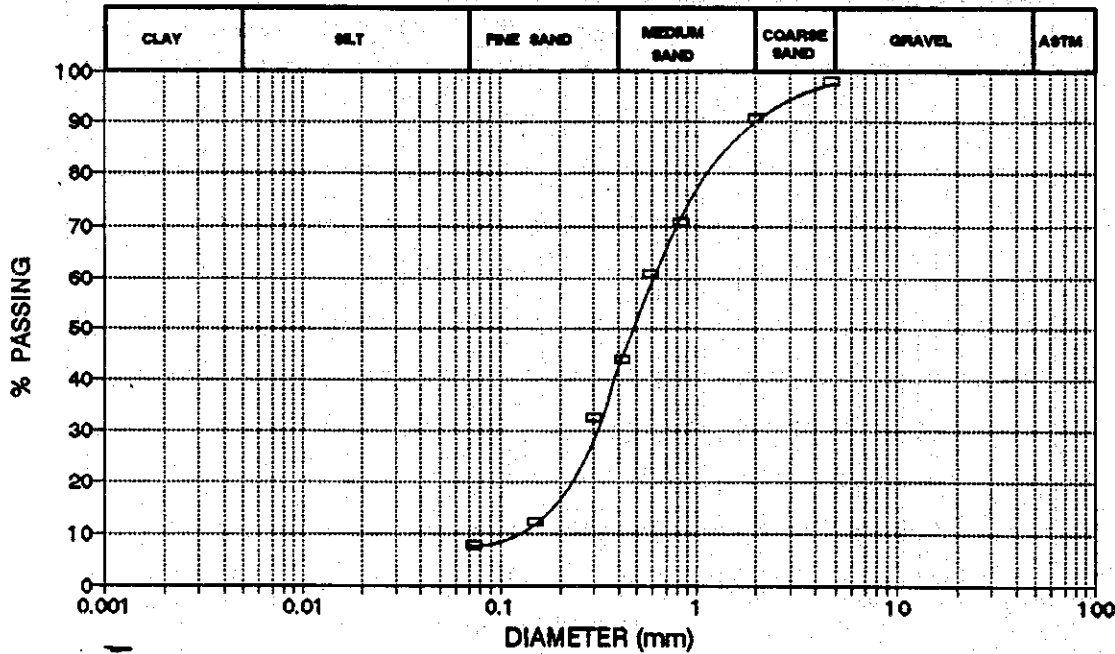
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SIEVE ANALYSIS

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: B-1/1 Depth (m) 105.00-105.60 Sample No.: SS-C-2B Test No.: S-19
 Soil Description: _____ Tested By: WY Date: 5-2-1993

Container No.:	
Weight of Container	100.00 g
Weight of Container + Dry Soil	450.00 g
Weight of Dry Soil	350.00 g

Sieve No.	Sieve Opening (mm)	Weight of Soil Retained (g)	Cumulative Retained (g)	Cumulative Retained (%)	Percent Finer
4	4.75	6.95	6.95	2.0	98.0
10	2.00	25.42	32.37	9.2	90.8
20	0.84	68.93	101.30	28.9	71.1
30	0.59	35.17	136.47	39.0	61.0
40	0.42	59.86	196.33	56.1	43.9
50	0.30	39.69	236.02	67.4	32.6
100	0.15	71.48	307.50	87.9	12.1
200	0.07	15.59	323.09	92.3	7.7



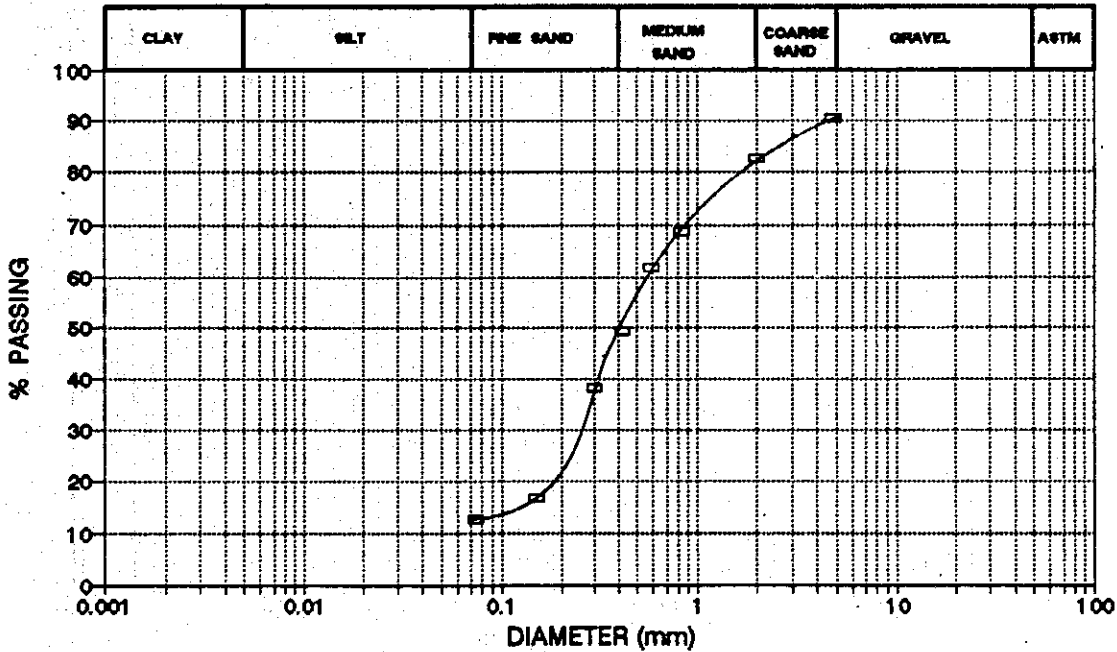
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SIEVE ANALYSIS

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: B-1/1 Depth (m) 110.30-111.00 Sample No.: SS-C-3B Test No.: S-18
 Soil Description: _____ Tested By: WY Date: 5-2-1993

Container No.:	
Weight of Container	100.00 g
Weight of Container + Dry Soil	700.00 g
Weight of Dry Soil	600.00 g

Sieve No.	Sieve Opening (mm)	Weight of Soil Retained (g)	Cumulative Retained (g)	Cumulative Retained (%)	Percent Finer
4	4.76	57.47	57.47	9.6	90.4
10	2.00	46.06	103.53	17.3	82.7
20	0.84	84.50	188.03	31.3	68.7
30	0.59	40.51	228.54	38.1	61.9
40	0.42	76.37	304.91	50.8	49.2
50	0.30	65.10	370.01	61.7	38.3
100	0.15	129.14	499.15	83.2	16.8
200	0.07	24.36	523.51	87.3	12.7



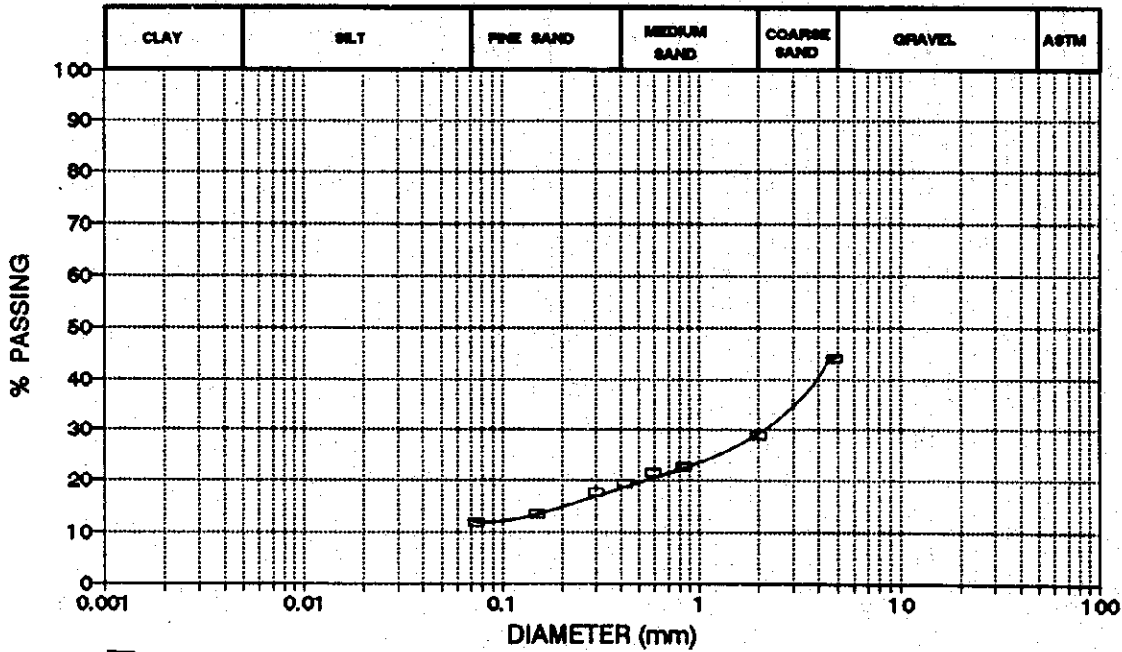
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SIEVE ANALYSIS

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: B-1/1 Depth (m) 113.50-113.80 Sample No.: SS-C-4B Test No.: S-17
 Soil Description: _____ Tested By: WY Date: 5-2-1993

Container No.:	
Weight of Container	100.00 g
Weight of Container+ Dry Soil	500.00 g
Weight of Dry Soil	400.00 g

Sieve No.	Sieve Opening (mm)	Weight of Soil Retained (g)	Cumulative Retained (g)	Cumulative Retained (%)	Percent Finer
4	4.76	223.91	223.91	56.0	44.0
10	2.00	60.99	284.90	71.2	28.8
20	0.84	23.82	308.72	77.2	22.8
30	0.59	5.71	314.43	78.6	21.4
40	0.42	8.51	322.94	80.7	19.3
50	0.30	6.88	329.82	82.5	17.5
100	0.15	16.84	346.66	86.7	13.3
200	0.07	6.28	352.94	88.2	11.8



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GRAIN SIZE ANALYSIS

Project: Subsidence in Bangkok Vicinity
 Borehole No.: B Depth (m) 117-117.5
 Soil Description: _____

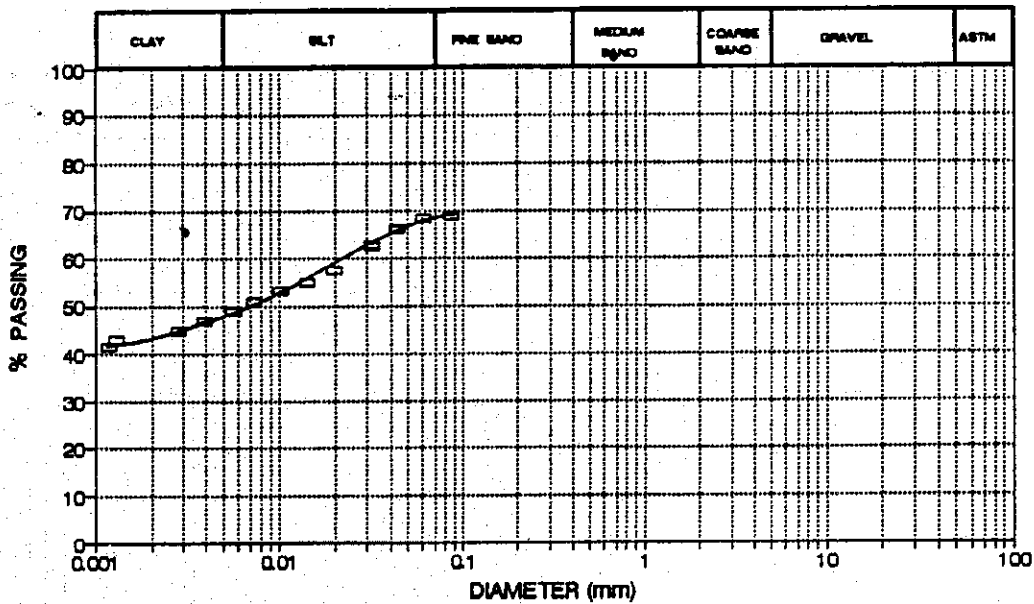
Location: AIT
 Sample No.: _____ Test No.: AH-14
 Tested By: WY Date: 9-2-93

SIEVE ANALYSIS

Opening (mm)	Percent Finer (%)
4.76	
2.00	
0.84	
0.59	
0.42	
0.30	
0.15	
0.07	

HYDROMETER ANALYSIS

Particle Size (mm)	Percent Finer (%)
0.0857	69.03
0.0609	68.41
0.0438	66.35
0.0318	62.85
0.0319	62.64
0.0198	57.70
0.0143	55.02
0.0103	53.17
0.0074	51.10
0.0057	48.84
0.0039	46.78
0.0028	44.72
0.0013	43.07
0.0012	41.63
0.0009	43.27
0.0009	43.27



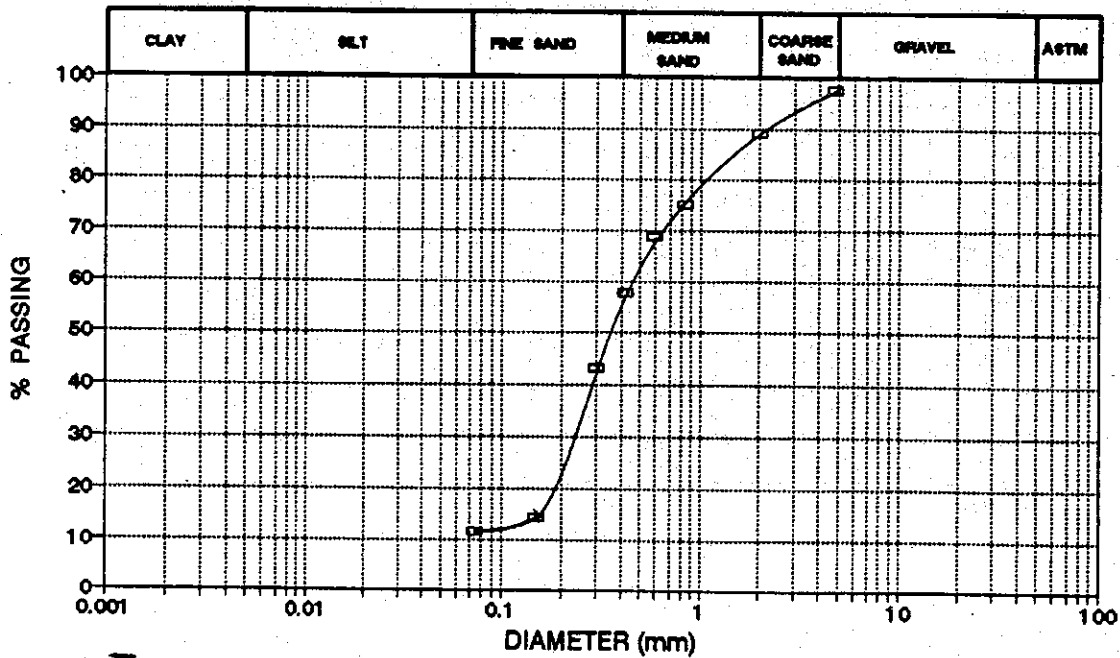
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SIEVE ANALYSIS

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: B-1/1 Depth (m) 117.50-118.00 Sample No.: SS-C-5B Test No.: S-16
 Soil Description: _____ Tested By: WY Date: 5-2-1993

Container No.:	
Weight of Container	100.00 g
Weight of Container + Dry Soil	550.00 g
Weight of Dry Soil	450.00 g

Sieve No.	Sieve Opening (mm)	Weight of Soil Retained (g)	Cumulative Retained (g)	Cumulative Retained (%)	Percent Finer
4	4.76	10.08	10.08	2.2	97.8
10	2.00	37.93	48.01	10.7	89.3
20	0.84	63.31	111.32	24.7	75.3
30	0.59	29.30	140.62	31.2	68.8
40	0.42	49.05	189.67	42.1	57.9
50	0.30	65.53	255.20	56.7	43.3
100	0.15	130.45	385.65	85.7	14.3
200	0.07	13.15	398.80	88.6	11.4



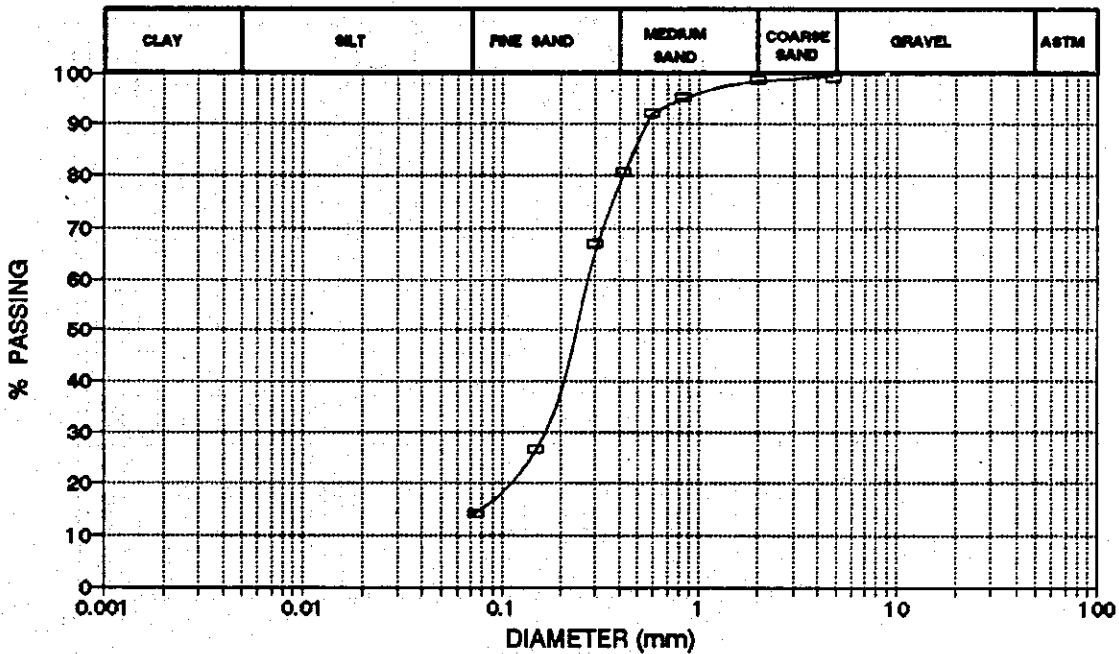
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SIEVE ANALYSIS

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: B-1/1 Depth (m) 121.30-122.00 Sample No.: SS-C-6B Test No.: S-15
 Soil Description: _____ Tested By: WY Date: 5-2-1993

Container No.:	
Weight of Container	100.00 g
Weight of Container + Dry Soil	420.00 g
Weight of Dry Soil	320.00 g

Sieve No.	Sieve Opening (mm)	Weight of Soil Retained (g)	Cumulative Retained (g)	Cumulative Retained (%)	Percent Finer
4	4.76	2.63	2.63	0.8	99.2
10	2.00	1.96	4.59	1.4	98.6
20	0.84	10.30	14.89	4.7	95.3
30	0.59	10.24	25.13	7.9	92.1
40	0.42	36.54	61.67	19.3	80.7
50	0.30	43.69	105.36	32.9	67.1
100	0.15	129.35	234.71	73.3	26.7
200	0.07	40.60	275.31	86.0	14.0



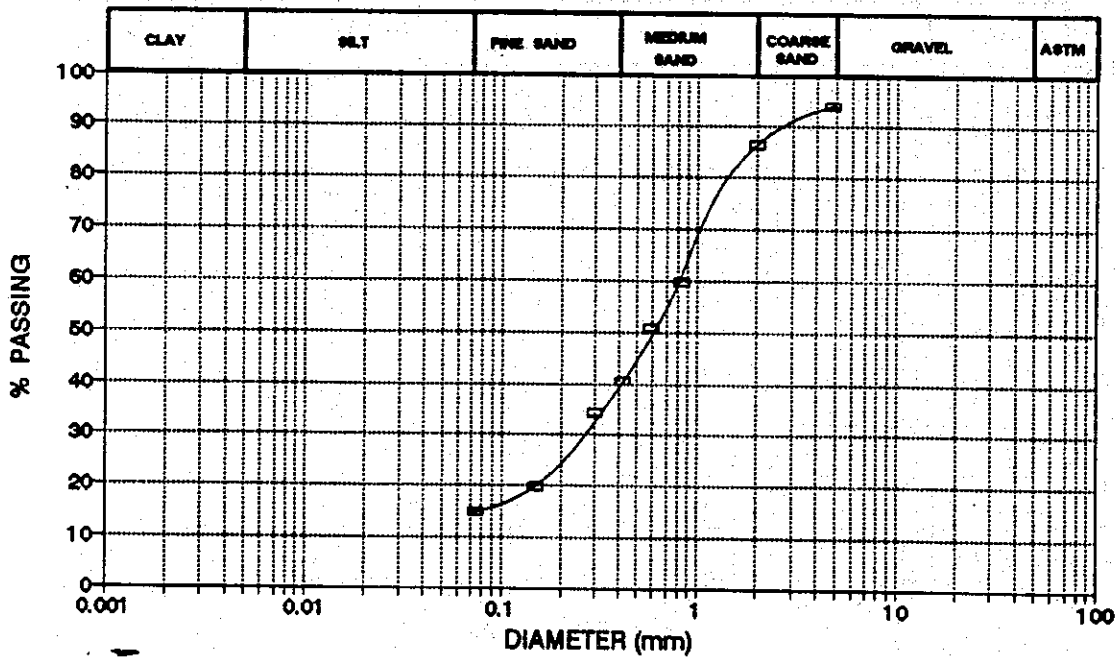
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SIEVE ANALYSIS

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: B-1/1 Depth (m) 125.60-126.00 Sample No.: SS-C-7B Test No.: S-14
 Soil Description: _____ Tested By: WY Date: 5-2-1993

Container No.:	
Weight of Container	100.00 g
Weight of Container + Dry Soil	550.00 g
Weight of Dry Soil	450.00 g

Sieve No.	Sieve Opening (mm)	Weight of Soil Retained (g)	Cumulative Retained (g)	Cumulative Retained (%)	Percent Finer
4	4.76	25.90	25.90	5.8	94.2
10	2.00	34.27	60.17	13.4	86.6
20	0.84	120.68	180.85	40.2	59.8
30	0.59	40.04	220.89	49.1	50.9
40	0.42	46.15	267.04	59.3	40.7
50	0.30	28.91	295.95	65.8	34.2
100	0.15	64.95	360.90	80.2	19.8
200	0.07	23.12	384.02	85.3	14.7



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GEOTECHNICAL AND TRANSPORTATION ENGINEERING DIVISION

GRAIN SIZE ANALYSIS

Project: Subsidence in Bangkok Vicinity
 Borehole No.: B Depth (m) 128.3-128.4
 Soil Description: _____

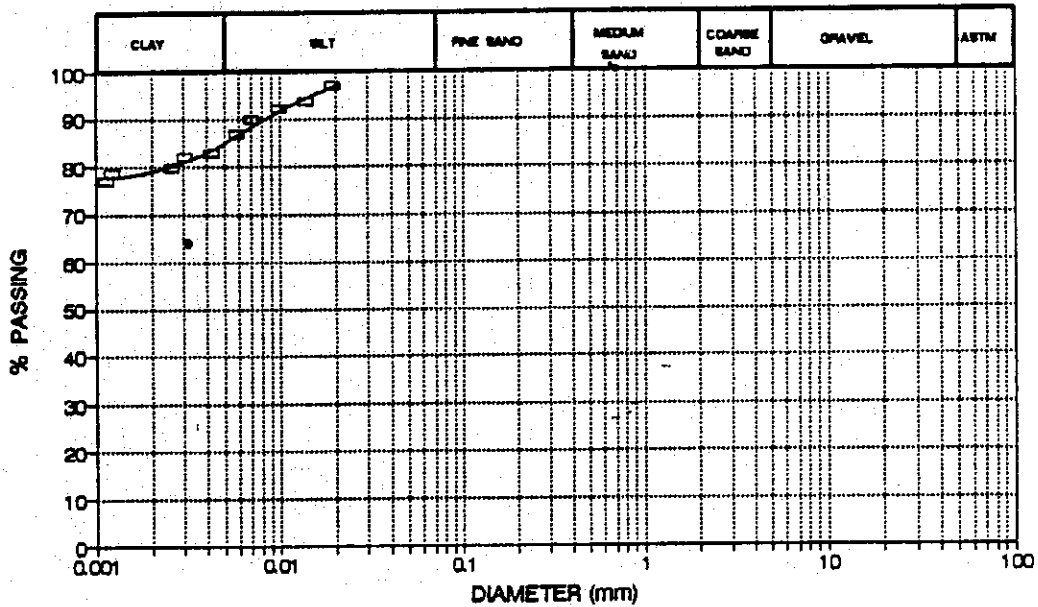
Location: AIT
 Sample No.: _____ Test No.: AH-96
 Tested By: WY Date: 8-4-93

SIEVE ANALYSIS

Opening (mm)	Percent Finer (%)
4.76	
2.00	
0.84	
0.59	
0.42	
0.30	
0.15	
0.07	

HYDROMETER ANALYSIS

Particle Size (mm)	Percent Finer (%)
0.0192	97.11
0.0138	93.92
0.0099	92.33
0.0071	90.10
0.0059	86.92
0.0042	82.78
0.0031	82.14
0.0026	79.92
0.0012	78.96
0.0011	77.06
0.0009	78.97



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GRAIN SIZE ANALYSIS

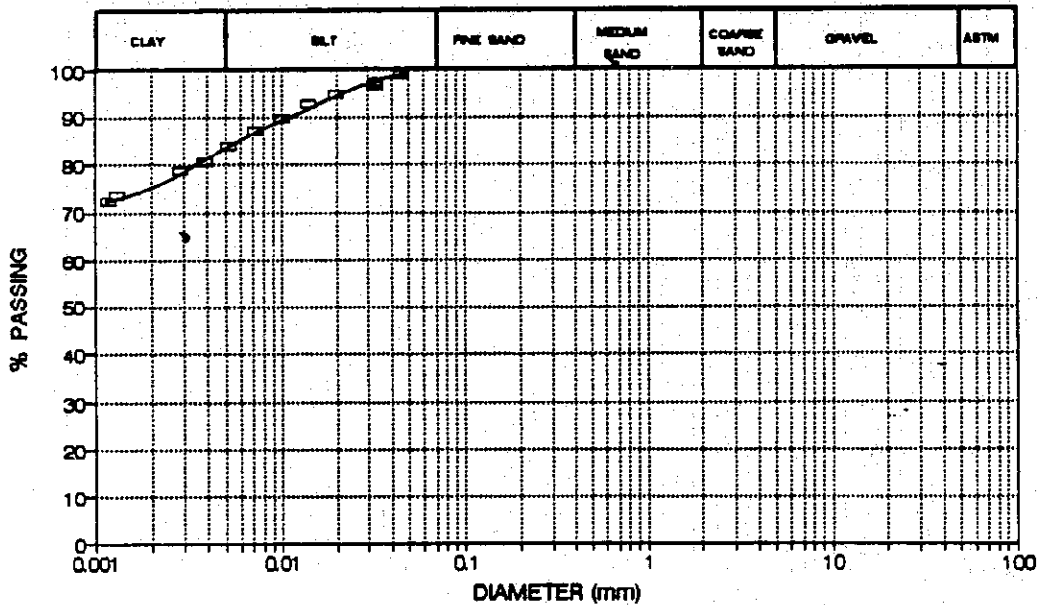
Project: Subsidence In Bangkok Vicinity Location: AIT
 Borehole No.: B Depth (m) 129.2-129.3 Sample No.: _____ Test No.: AH-97
 Soil Description: _____ Tested By: WY Date: 22-4-93

SIEVE ANALYSIS

Opening (mm)	Percent Finer (%)
4.75	
2.00	
0.84	
0.60	
0.42	
0.30	
0.15	
0.07	

HYDROMETER ANALYSIS

Particle Size (mm)	Percent Finer (%)
0.0458	98.99
0.0327	96.64
0.0326	97.31
0.0197	94.96
0.0141	92.95
0.0101	89.93
0.0072	87.25
0.0052	83.89
0.0039	80.53
0.0029	78.86
0.0013	73.82
0.0012	72.48
0.0009	71.81
0.0009	70.48



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GRAIN SIZE ANALYSIS

Project: Subsidence in Bangkok Vicinity
 Borehole No.: B Depth (m) 131.35-131.45
 Soil Description: _____

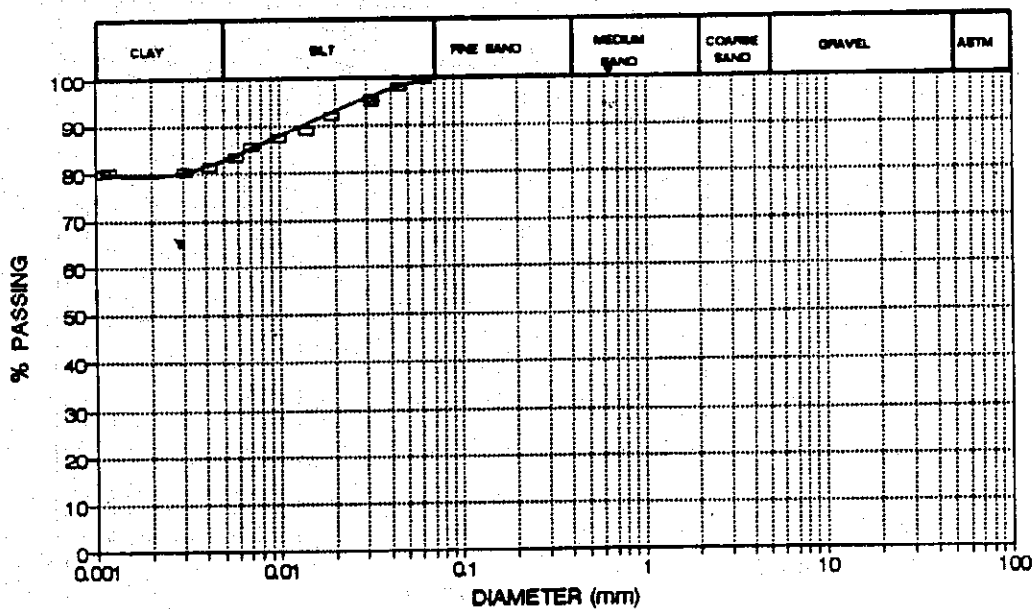
Location: AIT
 Sample No.: _____ Test No.: AH-98
 Tested By: WY Date: 8-4-93

SIEVE ANALYSIS

Opening (mm)	Percent Finer (%)
4.75	
2.00	
0.84	
0.69	
0.42	
0.30	
0.15	
0.07	

HYDROMETER ANALYSIS

Particle Size (mm)	Percent Finer (%)
0.0622	99.72
0.0443	98.19
0.0319	95.12
0.0318	95.73
0.0194	92.05
0.0139	88.98
0.0099	87.45
0.0071	85.61
0.0059	83.46
0.0042	81.31
0.0030	80.39
0.0012	80.39
0.0011	80.09
0.0009	80.09



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GRAIN SIZE ANALYSIS

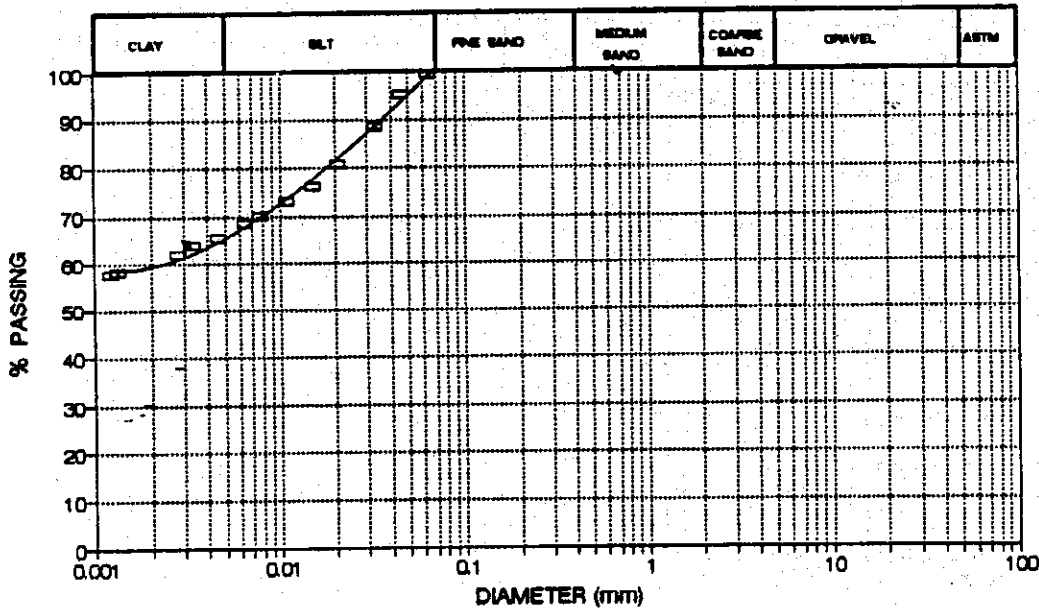
Project: Subsidence in Bangkok Vicinity **Location:** AIT
Borehole No.: B **Depth (m):** 136.5-136.6 **Sample No.:** _____ **Test No.:** AH-99
Soil Description: _____ **Tested By:** WY **Date:** 8-4-93

SIEVE ANALYSIS

Opening (mm)	Percent Finer (%)
4.76	
2.00	
0.84	
0.60	
0.42	
0.30	
0.15	
0.07	

HYDROMETER ANALYSIS

Particle Size (mm)	Percent Finer (%)
0.0631	99.29
0.0456	96.32
0.0334	88.60
0.0333	88.91
0.0208	80.96
0.0151	76.38
0.0106	73.32
0.0078	70.27
0.0064	68.74
0.0046	65.69
0.0033	64.16
0.0028	62.33
0.0013	58.35
0.0012	57.75
0.0010	56.22



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GRAIN SIZE ANALYSIS

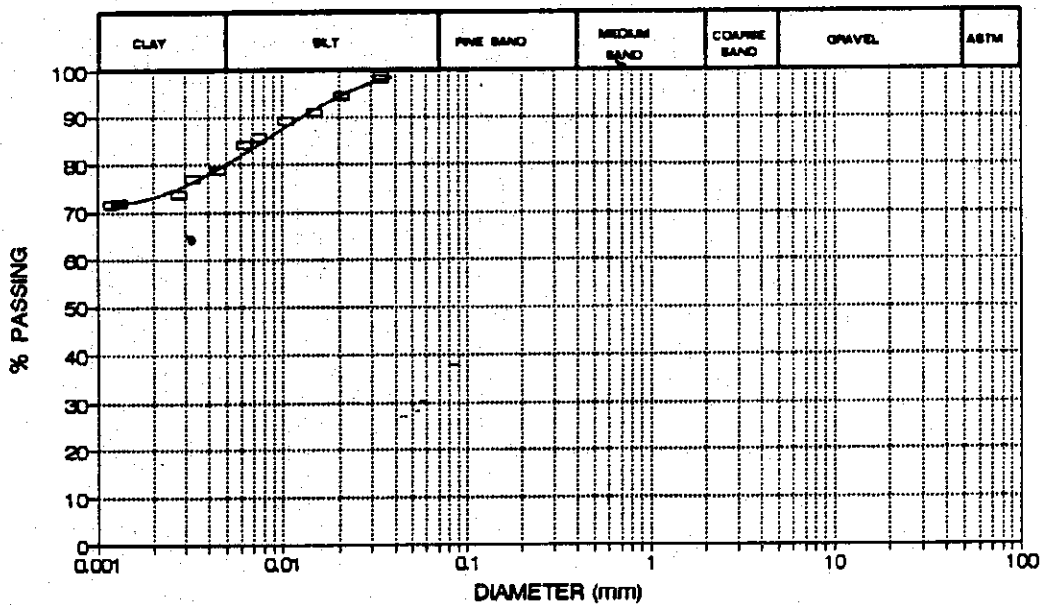
Project: Subsidence in Bangkok Vicinity Location: AIT
 Borehole No.: B Depth (m) 138.6-138.7 Sample No.: _____ Test No.: AH-100
 Soil Description: _____ Tested By: WY Date: 8-4-93

SIEVE ANALYSIS

Opening (mm)	Percent Finer (%)
4.76	
2.00	
0.84	
0.60	
0.42	
0.30	
0.15	
0.07	

HYDROMETER ANALYSIS

Particle Size (mm)	Percent Finer (%)
0.0339	98.09
0.0338	98.79
0.0207	94.59
0.0148	91.09
0.0106	89.34
0.0076	85.83
0.0062	84.08
0.0045	78.82
0.0033	77.07
0.0027	73.92
0.0013	72.17
0.0012	71.83



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GRAIN SIZE ANALYSIS

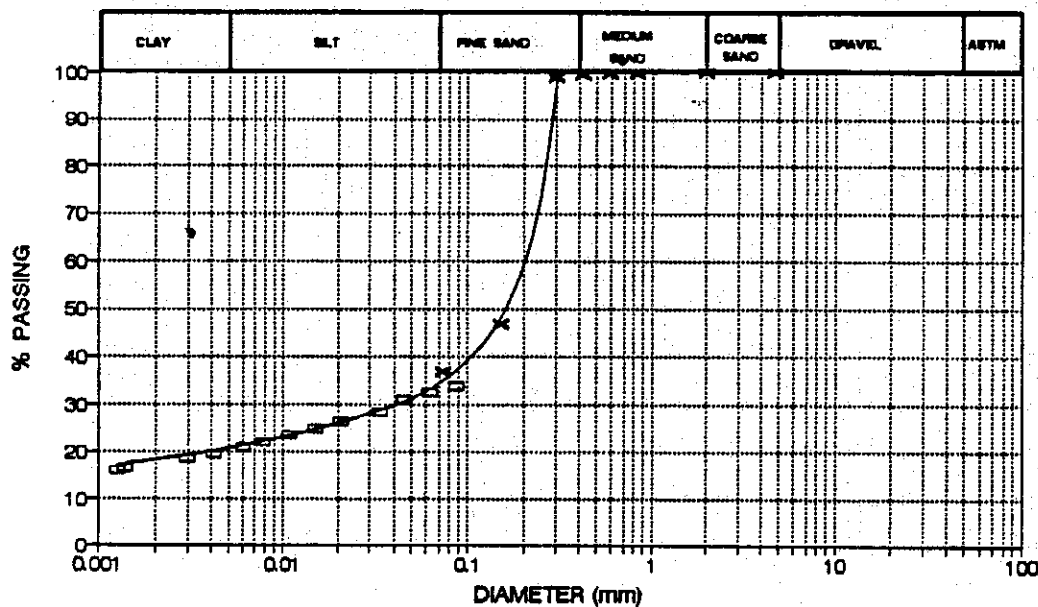
Project: Subsidence in Bangkok Vicinity Location: AIT
 Borehole No.: B Depth (m): 146.6-146.9 Sample No.: Test No.: AH-15
 Soil Description: Tested By: WY Date: 9-2-93

SIEVE ANALYSIS

Opening (mm)	Percent Finer (%)
4.76	100.00
2.00	100.00
0.84	99.80
0.60	99.70
0.42	99.50
0.30	99.00
0.15	46.80
0.07	36.80

HYDROMETER ANALYSIS

Particle Size (mm)	Percent Finer (%)
0.0677	33.60
0.0630	32.56
0.0457	31.01
0.0335	28.43
0.0335	28.43
0.0208	26.36
0.0150	24.81
0.0108	23.57
0.0078	22.23
0.0060	20.99
0.0041	19.64
0.0030	18.40
0.0014	16.33
0.0013	16.02
0.0010	15.30



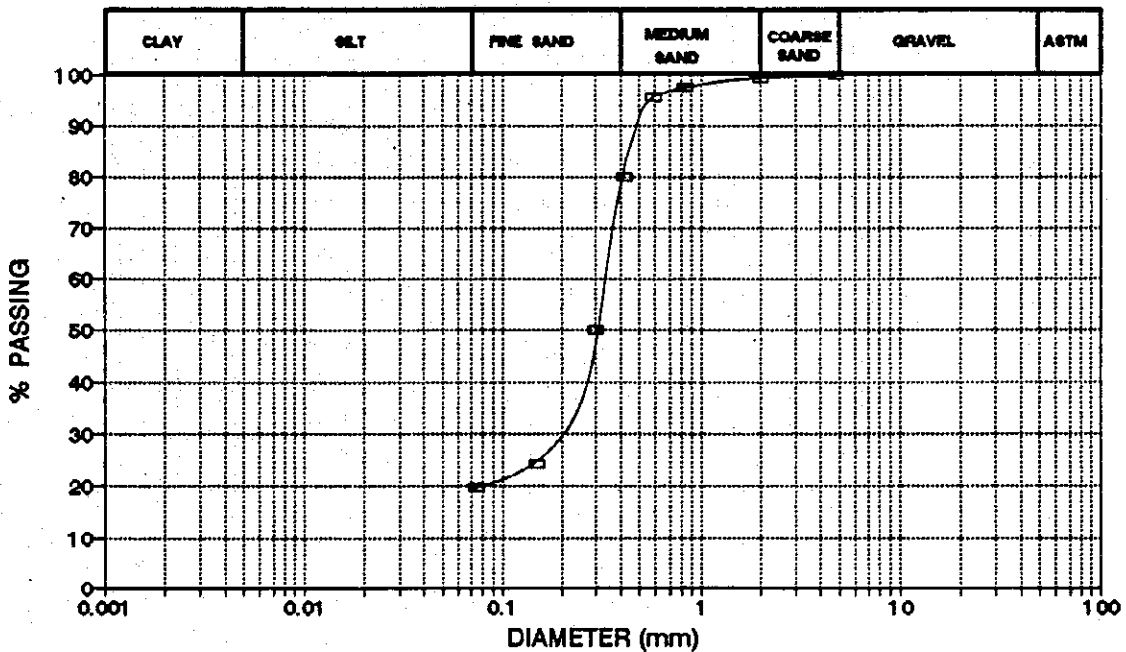
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SIEVE ANALYSIS

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: B-1/1 Depth (m) 152.40-153.00 Sample No.: SS-C-8B Test No.: S-13
 Soil Description: _____ Tested By: WY Date: 5-2-1993

Container No.:	
Weight of Container	100.00 g
Weight of Container + Dry Soil	550.00 g
Weight of Dry Soil	450.00 g

Sieve No.	Sieve Opening (mm)	Weight of Soil Retained (g)	Cumulative Retained (g)	Cumulative Retained (%)	Percent Finer
4	4.76	0.86	0.86	0.2	99.8
10	2.00	3.20	4.06	0.9	99.1
20	0.84	7.21	11.27	2.5	97.5
30	0.59	9.46	20.73	4.6	95.4
40	0.42	68.51	89.24	19.8	80.2
50	0.30	135.05	224.29	49.8	50.2
100	0.15	117.16	341.45	75.9	24.1
200	0.07	19.59	361.04	80.2	19.8



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GRAIN SIZE ANALYSIS

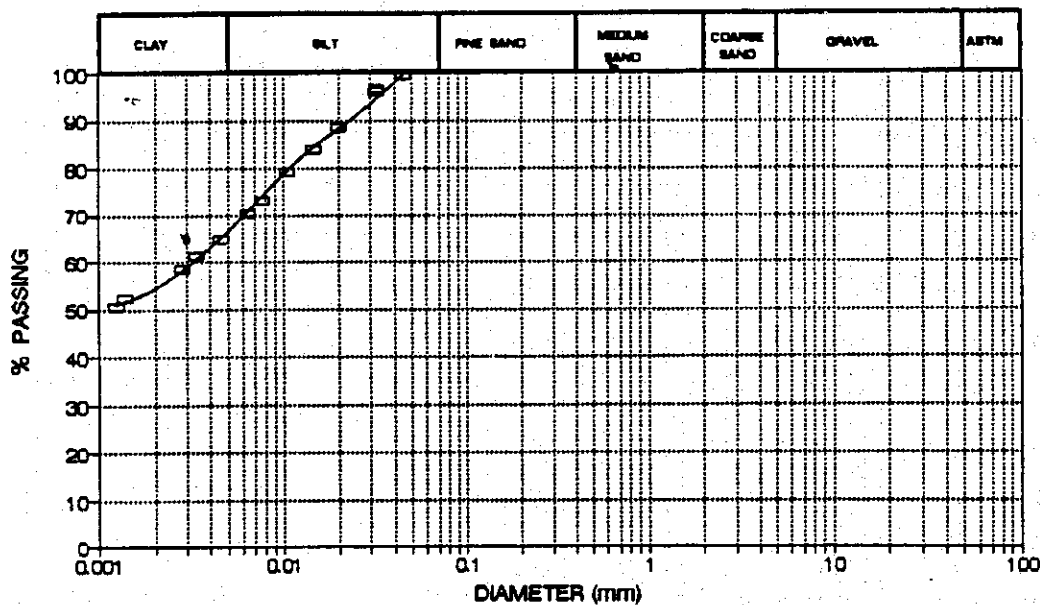
Project: Subsidence in Bangkok Vicinity Location: AIT
 Borehole No.: B Depth (m) 154.5-154.6 Sample No.: _____ Test No.: AH-101
 Soil Description: _____ Tested By: WY Date: 8-4-93

SIEVE ANALYSIS

Opening (mm)	Percent Finer (%)
4.76	
2.00	
0.84	
0.69	
0.42	
0.30	
0.15	
0.07	

HYDROMETER ANALYSIS

Particle Size (mm)	Percent Finer (%)
0.0451	99.31
0.0324	96.13
0.0323	96.77
0.0201	88.84
0.0146	84.08
0.0106	79.32
0.0077	73.29
0.0063	70.43
0.0046	65.03
0.0034	61.23
0.0028	58.69
0.0014	52.67
0.0013	50.77
0.0010	49.82
0.0010	16.68



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GRAIN SIZE ANALYSIS

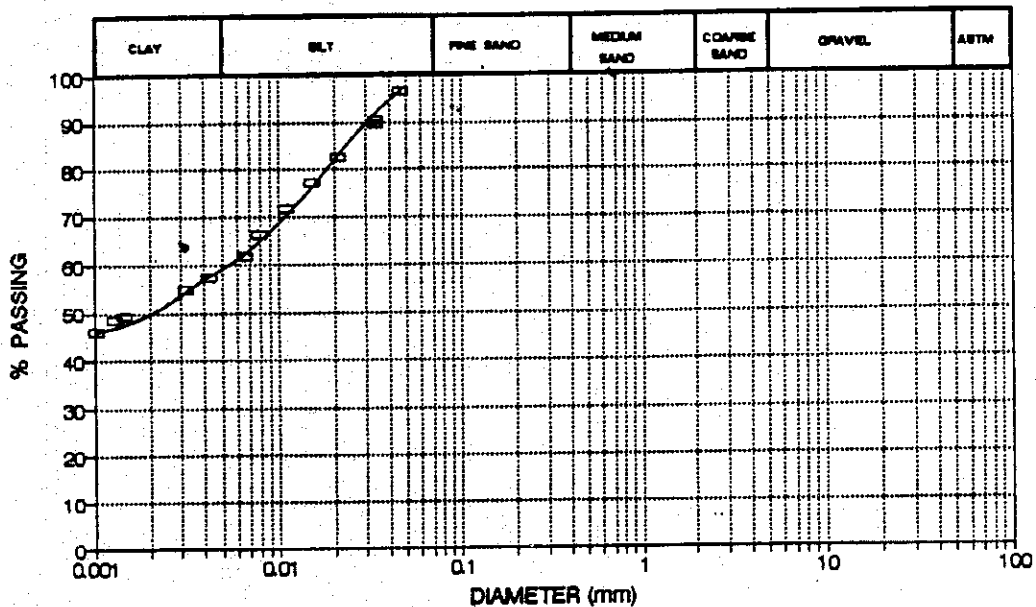
Project: Subsidence in Bangkok Vicinity Location: AIT
 Borehole No.: B Depth (m) 157.3-157.37 Sample No.: _____ Test No.: AH-102
 Soil Description: _____ Tested By: WY Date: 22-4-93

SIEVE ANALYSIS

Opening (mm)	Percent Finer (%)
4.76	
2.00	
0.84	
0.59	
0.42	
0.30	
0.15	
0.07	

HYDROMETER ANALYSIS

Particle Size (mm)	Percent Finer (%)
0.0462	96.48
0.0336	89.89
0.0335	90.55
0.0209	82.65
0.0151	77.38
0.0109	71.78
0.0079	66.51
0.0066	61.90
0.0042	57.62
0.0032	54.99
0.0015	49.39
0.0013	48.73
0.0010	46.10
0.0010	45.12
0.0010	16.68



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GRAIN SIZE ANALYSIS

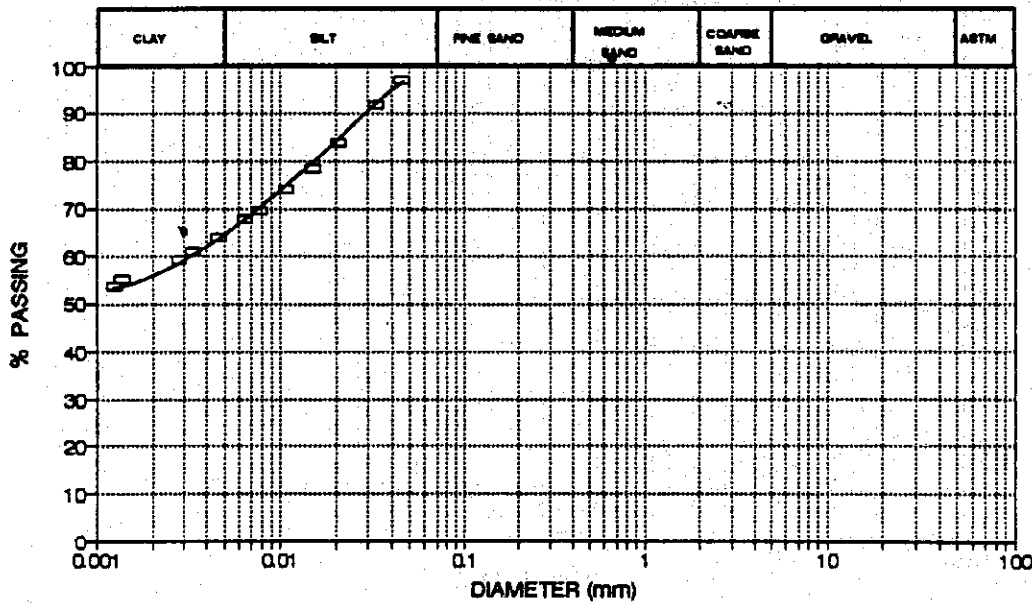
Project: Subsidence in Bangkok Vicinity Location: AJT
 Borehole No.: B Depth (m): 159.4-159.5 Sample No.: _____ Test No.: AH-103
 Soil Description: _____ Tested By: WY Date: 8-4-93

SIEVE ANALYSIS

Opening (mm)	Percent Finer (%)
4.76	
2.00	
0.84	
0.59	
0.42	
0.30	
0.15	
0.07	

HYDROMETER ANALYSIS

Particle Size (mm)	Percent Finer (%)
0.0456	97.19
0.0331	91.81
0.0331	91.81
0.0206	83.89
0.0150	78.51
0.0108	74.40
0.0078	69.65
0.0064	68.06
0.0046	64.27
0.0034	61.10
0.0028	59.20
0.0014	55.40
0.0012	53.82
0.0010	51.29
0.0010	16.68



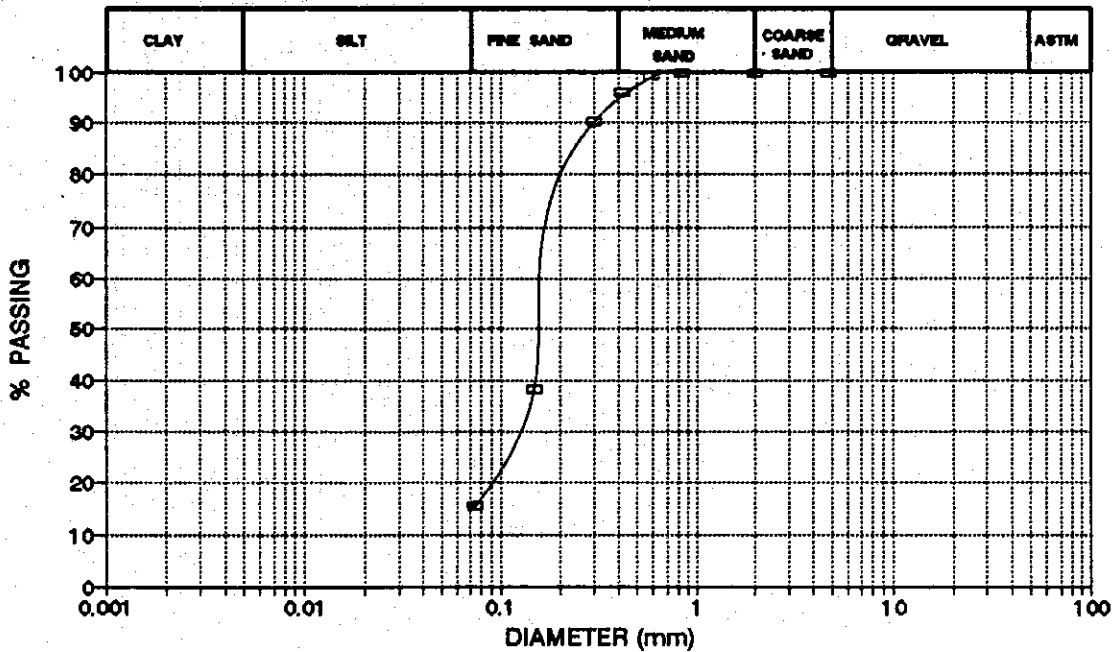
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SIEVE ANALYSIS

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: B-1/1 Depth (m) 162.10-162.50 Sample No.: SS-C-9B Test No.: S-12
 Soil Description: _____ Tested By: WY Date: 5-2-1993

Container No.:	
Weight of Container	100.00 g
Weight of Container + Dry Soil	550.00 g
Weight of Dry Soil	450.00 g

Sieve No.	Sieve Opening (mm)	Weight of Soil Retained (g)	Cumulative Retained (g)	Cumulative Retained (%)	Percent Finer
4	4.75	0.00	0.00	0.0	100.0
10	2.00	0.00	0.00	0.0	100.0
20	0.84	0.57	0.57	0.1	99.9
30	0.59	2.17	2.74	0.6	99.4
40	0.42	14.86	17.60	3.9	96.1
50	0.30	26.02	43.62	9.7	90.3
100	0.15	233.92	277.54	61.7	38.3
200	0.07	102.38	379.92	84.4	15.6



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GRAIN SIZE ANALYSIS

Project: Subsidence in Bangkok Vicinity
 Borehole No.: B Depth (m) 169-170
 Soil Description: _____

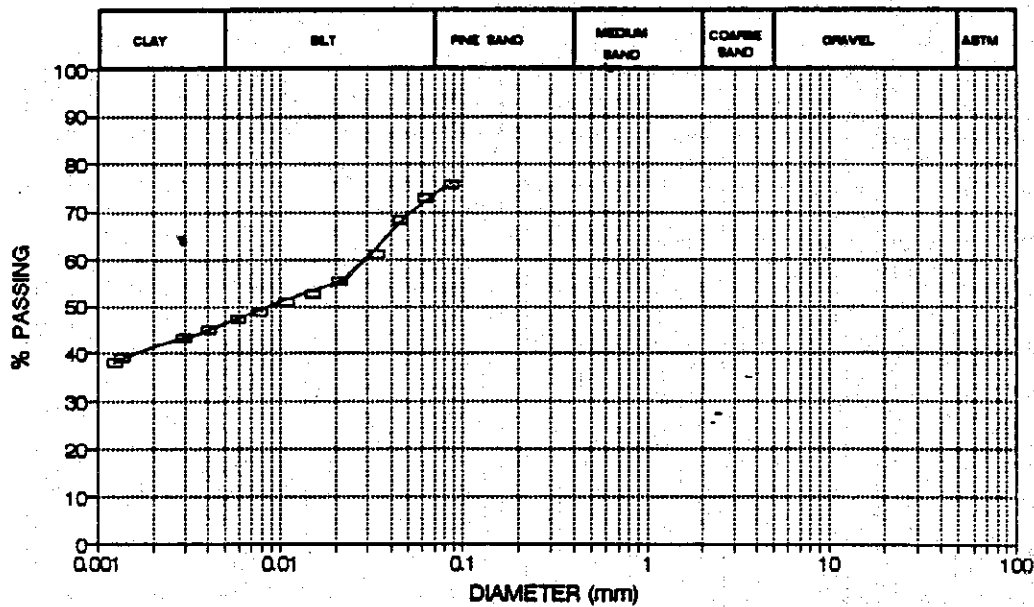
Location: AIT
 Sample No.: _____ Test No.: AH-16
 Tested By: WY Date: 9-2-93

SIEVE ANALYSIS

Opening (mm)	Percent Finer (%)
4.76	
2.00	
0.84	
0.59	
0.42	
0.30	
0.15	
0.07	

HYDROMETER ANALYSIS

Particle Size (mm)	Percent Finer (%)
0.0666	75.70
0.0625	72.92
0.0456	68.29
0.0337	61.34
0.0337	61.34
0.0210	55.66
0.0151	52.78
0.0106	50.93
0.0077	49.08
0.0059	47.46
0.0041	45.14
0.0030	43.30
0.0014	39.12
0.0012	38.20
0.0010	37.04



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GRAIN SIZE ANALYSIS

Project: Subsidence in Bangkok Vicinity
 Borehole No.: B Depth (m) 170-171
 Soil Description: _____

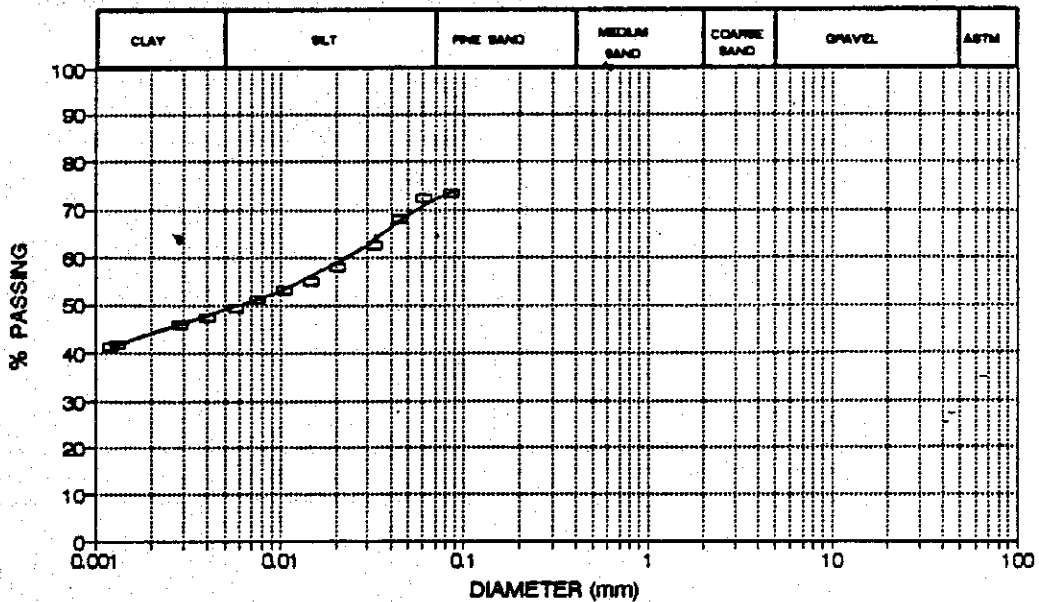
Location: AIT
 Sample No.: _____ Test No.: AH-17
 Tested By: WY Date: 9-2-93

SIEVE ANALYSIS

Opening (mm)	Percent Finer (%)
4.75	
2.00	
0.84	
0.59	
0.42	
0.30	
0.15	
0.07	

HYDROMETER ANALYSIS

Particle Size (mm)	Percent Finer (%)
0.0657	73.63
0.0611	72.53
0.0447	68.13
0.0328	62.64
0.0328	62.64
0.0203	58.24
0.0147	54.94
0.0105	53.19
0.0075	51.21
0.0058	49.45
0.0040	47.47
0.0028	45.93
0.0013	41.76
0.0012	41.32
0.0010	37.36



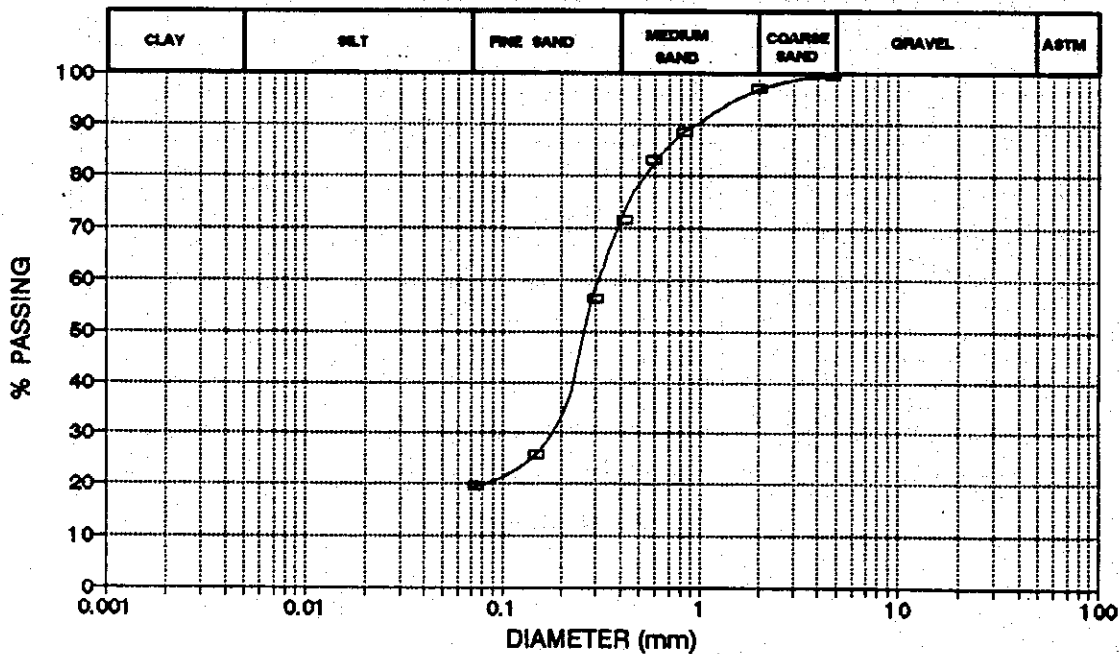
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SIEVE ANALYSIS

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: B-1/1 Depth (m) 175.20-175.50 Sample No.: SS-C-10B Test No.: S-11
 Soil Description: _____ Tested By: WY Date: 5-2-1993

Container No.:	
Weight of Container	100.00 g
Weight of Container + Dry Soil	600.00 g
Weight of Dry Soil	500.00 g

Sieve No.	Sieve Opening (mm)	Weight of Soil Retained (g)	Cumulative Retained (g)	Cumulative Retained (%)	Percent Finer
4	4.75	271	271	0.5	99.5
10	2.00	11.29	14.00	2.8	97.2
20	0.84	42.57	56.57	11.3	88.7
30	0.59	27.83	84.40	16.9	83.1
40	0.42	56.81	141.21	28.2	71.8
50	0.30	76.00	217.21	43.4	56.6
100	0.15	154.31	371.52	74.3	25.7
200	0.07	30.57	402.09	80.4	19.6



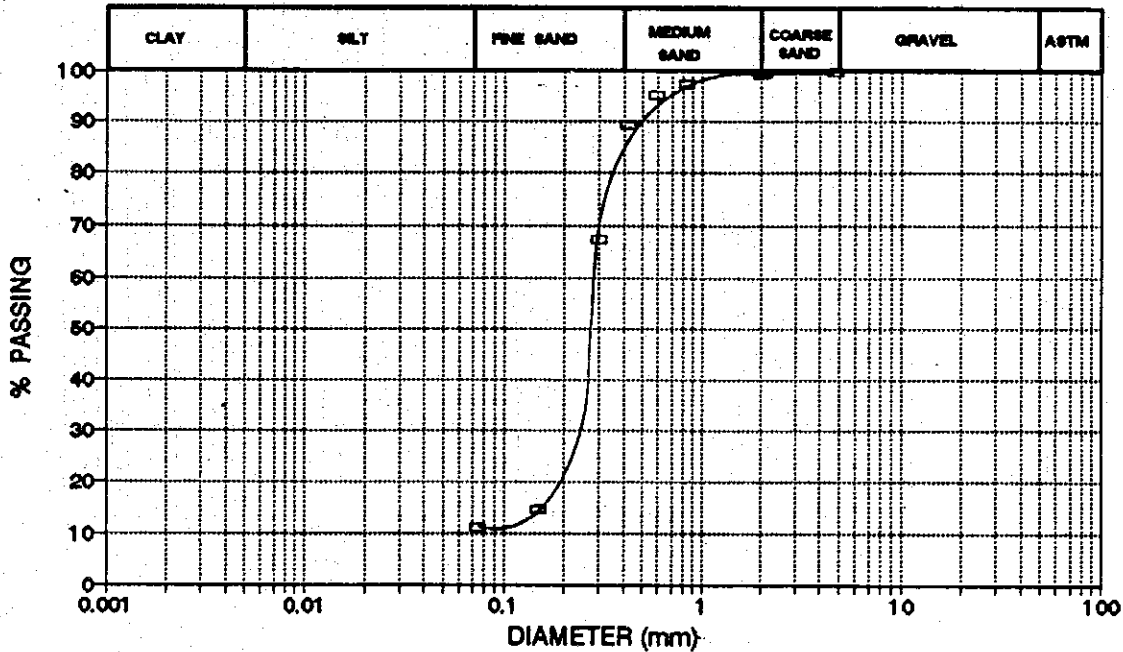
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SIEVE ANALYSIS

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: B-1/1 Depth (m) 176.50-176.80 Sample No.: SS-C-11B Test No.: S-10
 Soil Description: _____ Tested By: WY Date: 5-2-1993

Container No.:	
Weight of Container	100.00 g
Weight of Container+ Dry Soil	706.00 g
Weight of Dry Soil	606.00 g

Sieve No.	Sieve Opening (mm)	Weight of Soil Retained (g)	Cumulative Retained (g)	Cumulative Retained (%)	Percent Finer
4	4.76	0.58	0.58	0.1	99.9
10	2.00	2.99	3.57	0.6	99.4
20	0.84	12.66	16.23	2.7	97.3
30	0.59	11.95	28.18	4.7	95.3
40	0.42	36.34	64.52	10.6	89.4
50	0.30	134.08	198.60	32.8	67.2
100	0.15	319.10	517.70	85.4	14.6
200	0.07	21.69	539.39	89.0	11.0



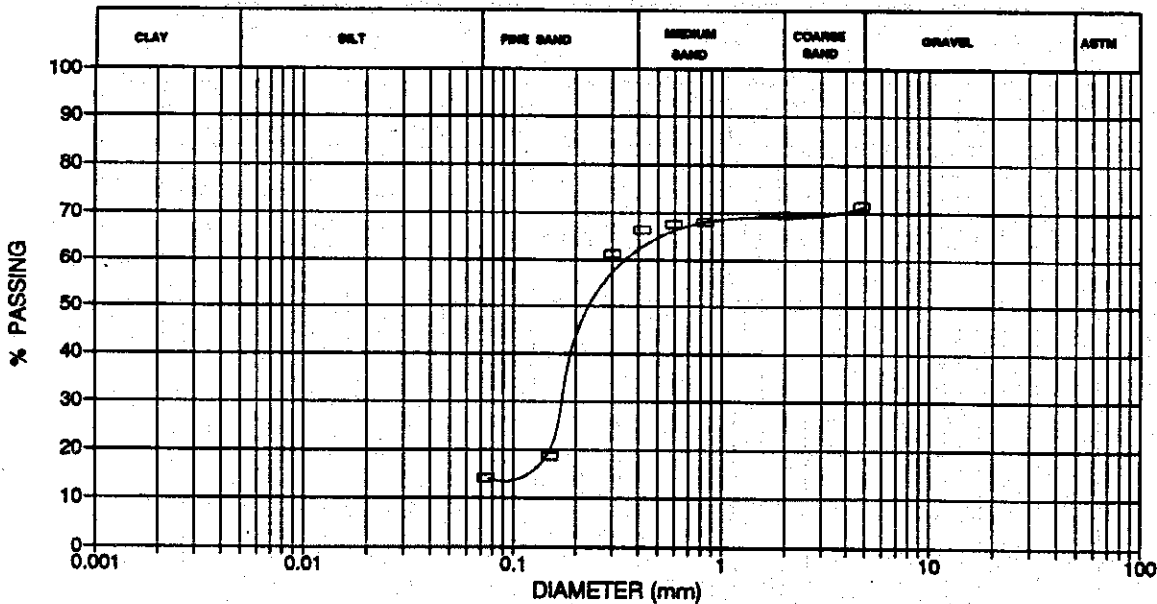
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SIEVE ANALYSIS

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: B-1/1 Depth (m) 177.20-177.50 Sample No.: SS-C-12B Test No.: S-9
 Soil Description: _____ Tested By: WY Date: 5-2-1993

Container No.:	
Weight of Container	100.00 g
Weight of Container + Dry Soil	540.00 g
Weight of Dry Soil	440.00 g

Sieve No.	Sieve Opening (mm)	Weight of Soil Retained (g)	Cumulative Retained (g)	Cumulative Retained (%)	Percent Finer
4	4.76	124.32	124.32	28.3	71.7
10	2.00	8.83	133.15	30.3	69.7
20	0.84	6.71	139.86	31.8	68.2
30	0.59	2.57	142.43	32.4	67.6
40	0.42	4.66	147.09	33.4	66.6
50	0.30	22.95	170.04	38.6	61.4
100	0.15	187.69	357.73	81.3	18.7
200	0.07	20.99	378.72	86.1	13.9



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GRAIN SIZE ANALYSIS

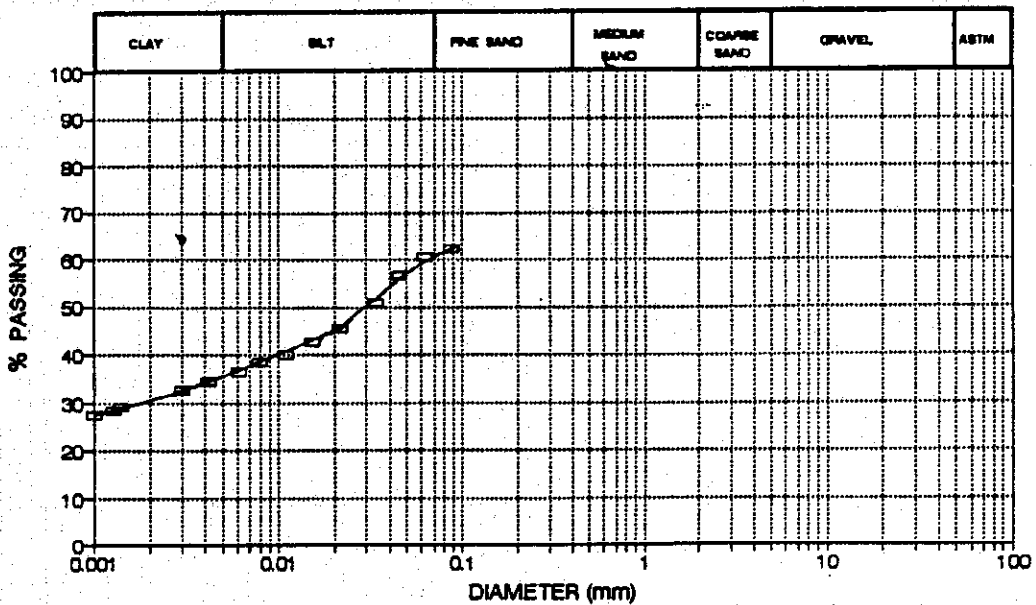
Project: Subsidence in Bangkok Vicinity Location: AIT
 Borehole No.: B Depth (m) 180-180.6 Sample No.: _____ Test No.: AH-18
 Soil Description: _____ Tested By: WY Date: 9-2-93

SIEVE ANALYSIS

Opening (mm)	Percent Finer (%)
4.76	
2.00	
0.84	
0.59	
0.42	
0.30	
0.15	
0.07	

HYDROMETER ANALYSIS

Particle Size (mm)	Percent Finer (%)
0.0667	62.44
0.0624	60.57
0.0456	56.85
0.0338	51.07
0.0338	51.07
0.0212	45.66
0.0153	42.68
0.0110	40.26
0.0079	38.58
0.0061	36.72
0.0042	34.48
0.0030	32.80
0.0014	29.26
0.0013	28.52
0.0010	27.40
0.0010	27.03



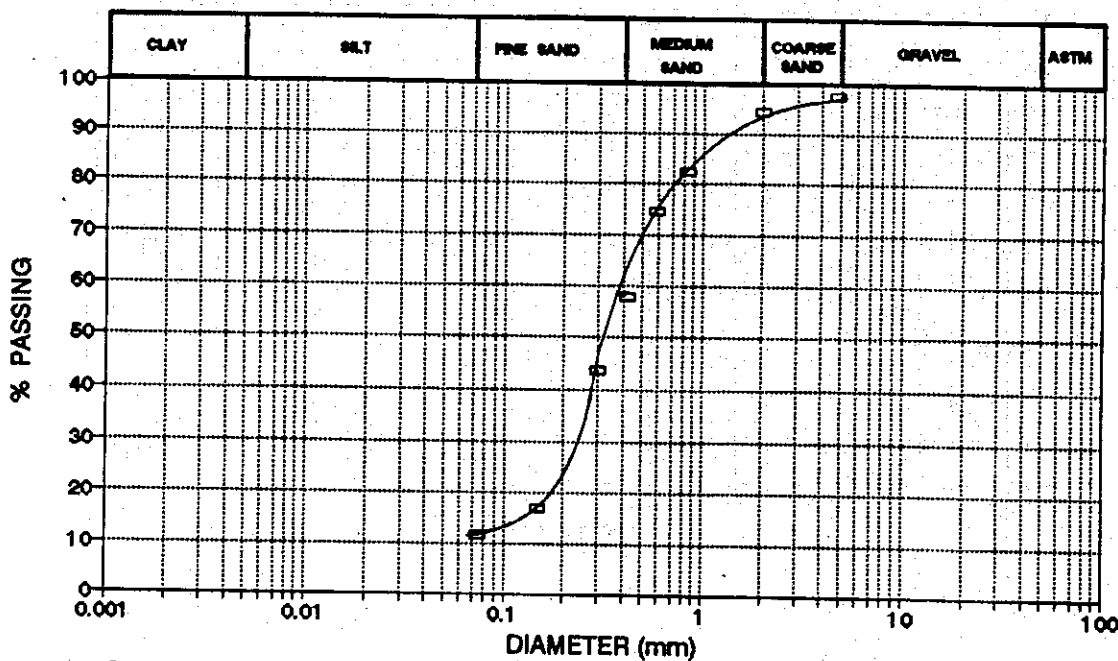
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SIEVE ANALYSIS

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: B-1/1 Depth (m) 183.50-184.00 Sample No.: SS-C-13B Test No.: S-8
 Soil Description: _____ Tested By: WY Date: 5-2-1993

Container No.:	
Weight of Container	100.00 g
Weight of Container + Dry Soil	400.74 g
Weight of Dry Soil	300.74 g

Sieve No.	Sieve Opening (mm)	Weight of Soil Retained (g)	Cumulative Retained (g)	Cumulative Retained (%)	Percent Finer
4	4.75	6.74	6.74	2.2	97.8
10	2.00	9.76	16.50	5.5	94.5
20	0.84	36.22	52.72	17.5	82.5
30	0.59	23.61	76.33	25.4	74.6
40	0.42	50.48	126.81	42.2	57.8
50	0.30	42.74	169.55	56.4	43.6
100	0.15	80.18	249.73	83.0	17.0
200	0.07	15.89	265.62	88.3	11.7



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SIEVE ANALYSIS

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: B-1/1 Depth (m) 189.00-189.50 Sample No.: SS-C-14B Test No.: S-7
 Soil Description: _____ Tested By: WY Date: 5-2-1993

Container No.:	
Weight of Container	100.00 g
Weight of Container + Dry Soil	300.27 g
Weight of Dry Soil	200.27 g

Sieve No.	Sieve Opening (mm)	Weight of Soil Retained (g)	Cumulative Retained (g)	Cumulative Retained (%)	Percent Finer
4	4.76	0.00	0.00	0.0	100.0
10	2.00	1.62	1.62	0.8	99.2
20	0.84	20.06	21.68	10.8	89.2
30	0.59	16.32	38.00	19.0	81.0
40	0.42	24.85	62.85	31.4	68.6
50	0.30	19.97	82.82	41.4	58.6
100	0.15	33.97	116.79	58.3	41.7
200	0.07	15.16	131.95	65.9	34.1

