PART III

SEDIMENT CONCENTRATION TEST

1. SAMPLING POINT

Sampling Points are enumerated as follows:

RIVER CHANNEL	SAMPLING SITES	ROAD SYSTEM
A. Abacan River	1. Friendship Bridge	
	2. Capaya Bridge	North Luzon Expressway
	3. Ninoy Aquino Bridge	Mexico-Magalang Road
	4. Mexico Spillway	Gapan-San Fernando Road
B. Sacobia River	1. Sapang Balen Bridge	Route 329
	2. Baidbid Bridge	Route 329
	3. RCBC	Route 329
	4. Mabalacat	Route 3
C. Bamban River	1. San Francisco Bridge	Route 329
	2. Marimla Bridge	Route 3
D. Pasig River	1. Watch Point No. 5	
	2. Mancatian	Angeles-Porac Road
	3. Sta. Barbara Bridge	Gapan-Olongapo Road

As much as practicable, sampling were undertaken on the same day, except for instances where some locations were not accessible due to flooding. For each sampling, a set of laboratory tests were undertaken. In general, each set of tests consisted of three (3) trials of the mechanical analysis, hydrometer tests, specific gravity tests, unit weight, and available moisture.

2. LABORATORY TESTS

All testing procedures generally conform to the American Society for Testing Materials (ASTM). The Unified Soil Classification System (USCS) was used in the classification of the samples. However, because of the little fines on most of the samples collected, only a handful of hydrometer tests were completed. The following specific testing procedures were followed for this Project:

ASTM DESIGNATION	TITLE/DESCRIPTION
1. Defined as the ratio of the weight of water to the total weight of sample in percent.	Available moisture
2. D 854-83	Specific Gravity of Soils.
3. D 2487-85	Classification of Soils for Engineering Purposes.
4. D 422-63 (1972)	Particle size Analysis of Soils.
5. D 422-63 (1972)	Hydrometer Tests for fines.
6. Defined as the ratio of the total weight of the sample to the total volume.	Unit Weight

3. TEST RESULTS

The summary of test results at the different sites are tabulated in the next pages on a per site basis. Also included in the tabulation are the specific location and the river channel, the date and time of sampling. immediately after the summary sheets are the grain-size curves of the tests.

III.1 ABACAN RIVER

SUMMARY OF LABORATORY TEST RESULTS --FRIENDSHIP BRIDGE

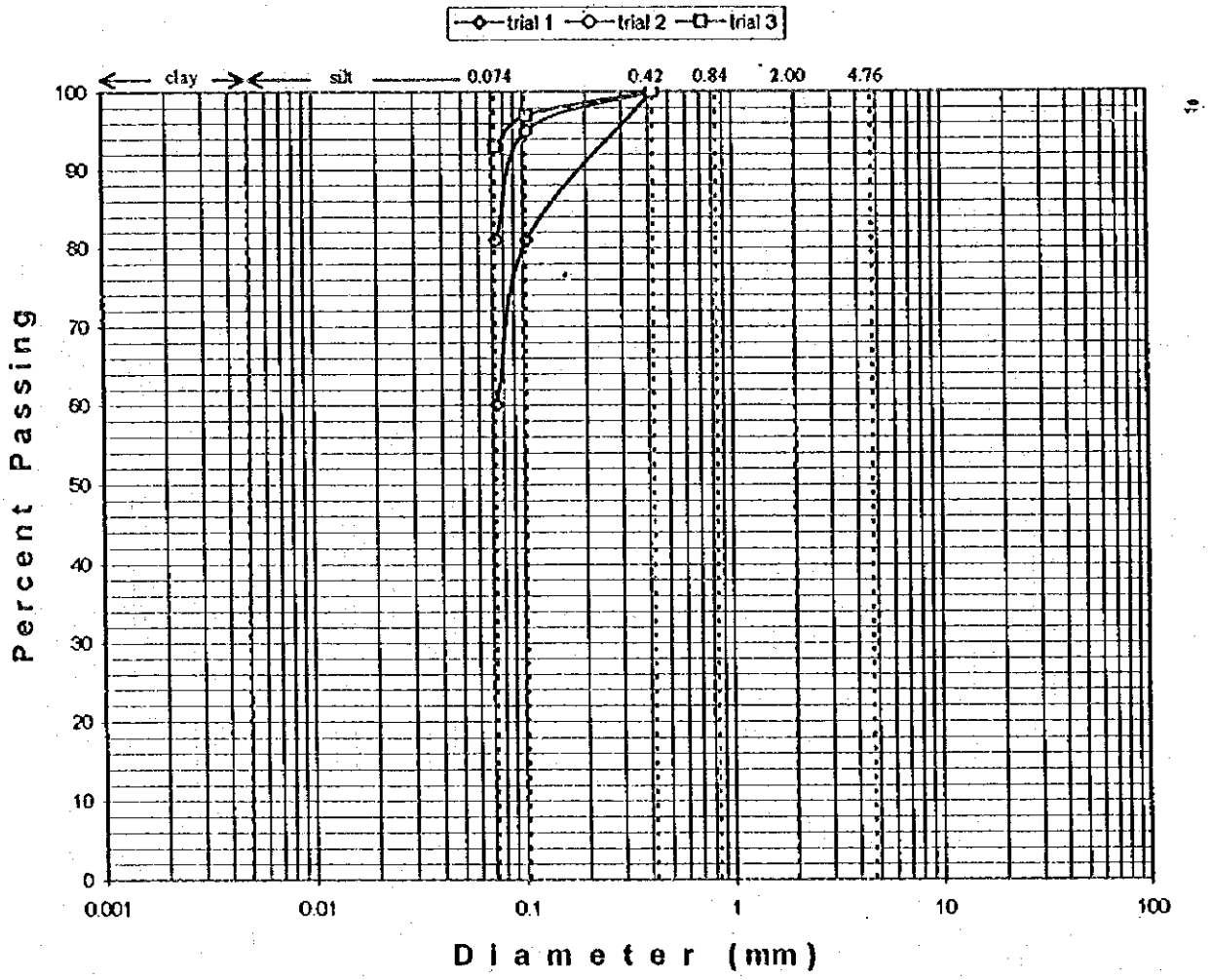
Date of Sampling	Trial No.	Unit Wt. (kN/m^3)	Available Moist. %	Specific Gravity	Grain Size Distribution				Soil Class.
					% Gravel	% Sand	% Silt	% Clay	
8-Aug 1995	1	10.77	83.26	2.49	0	40	60*		ML
	2	10.59	83.18	2.52	0	19	81*		ML
	3	10.39	82.60	2.50	0	7	93*		ML
	Average	**10.58**	**83.01**	**2.50**	**0**	**22**	**78***		
28-Aug 1995	1	9.95	99.63	I.S	0	20	80*		ML
	2	10.03	99.75	I.S	0	30	69*		ML
	3	9.93	99.73	I.S	0	42	58*		ML
	Average	**9.97**	**99.70**		**0**	**31**	**69***		
6-Sep 1995	1	9.81	99.93	I.S	0	53	47*		SM
	2	10.00	99.97	I.S	0	35	65*		ML
	3	10.00	99.93	I.S	0	31	69*		ML
	Average	**9.94**	**99.94**		**0**	**40**	**60***		
14-Sep 1995	1	10.79	99.10	2.50	0	1	99*		ML
	2	10.79	98.70	2.49	0	3	97*		ML
	3	10.79	98.70	2.47	0	2	98*		ML
	Average	**10.79**	**98.83**	**2.49**	**0**	**2**	**98***		
1-Oct 1995	1	10.30	96.42	2.55	0	7	93*		ML
	2	10.40	96.52	2.50	0	1	36	63	CL-ML
	3	10.49	95.08	2.52	0	2	98*		ML
	Average	**10.40**	**96.01**	**2.52**	**0**	**3**	**N.A.**	**N.A.**	

Note:

1. Available moisture (%) is defined as the ratio of the wt. of water to the total wt. of sample in per 100% means practically zero sediments.
2. I.S. - Insufficient sample for testing.
3. * - Insufficient sample for hydrometer test.
4. Numbers with * indicate the cumulative amount of silt and clay.

GRAIN SIZE ANALYSIS	SITE: FRIENDSHIP LOCATION: Abacan River DATE SAMPLED: August 8, 1995 DATE TESTED: August 11, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

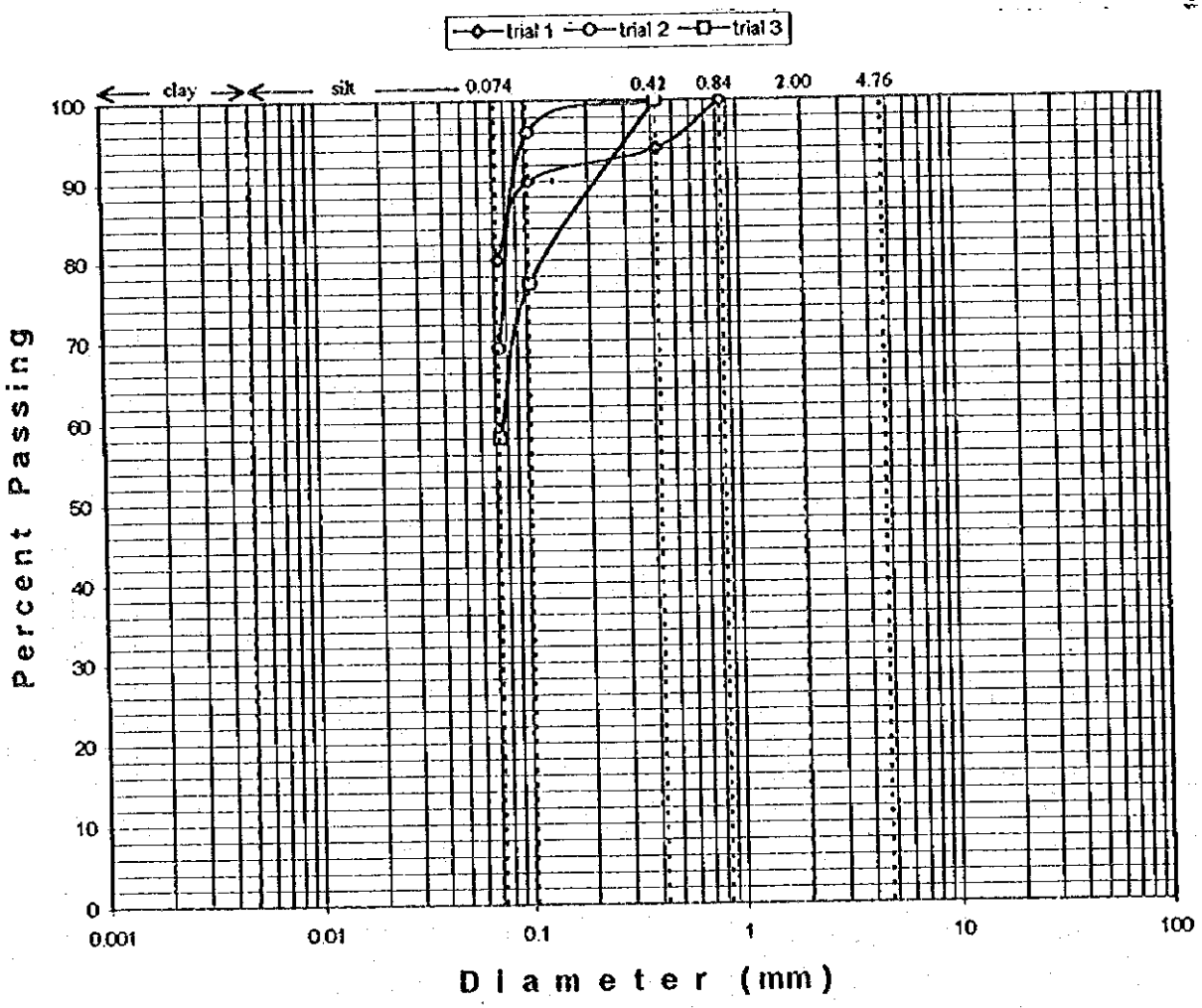


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	Sandy SILT.
			2					ML	SILT, little amount of sand.
2			3					ML	SILT, traces of fine sand.
3									
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: FRIENDSHIP BRIDGE LOCATION: Abacan River DATE SAMPLED: August 28, 1995 DATE TESTED: August 31, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

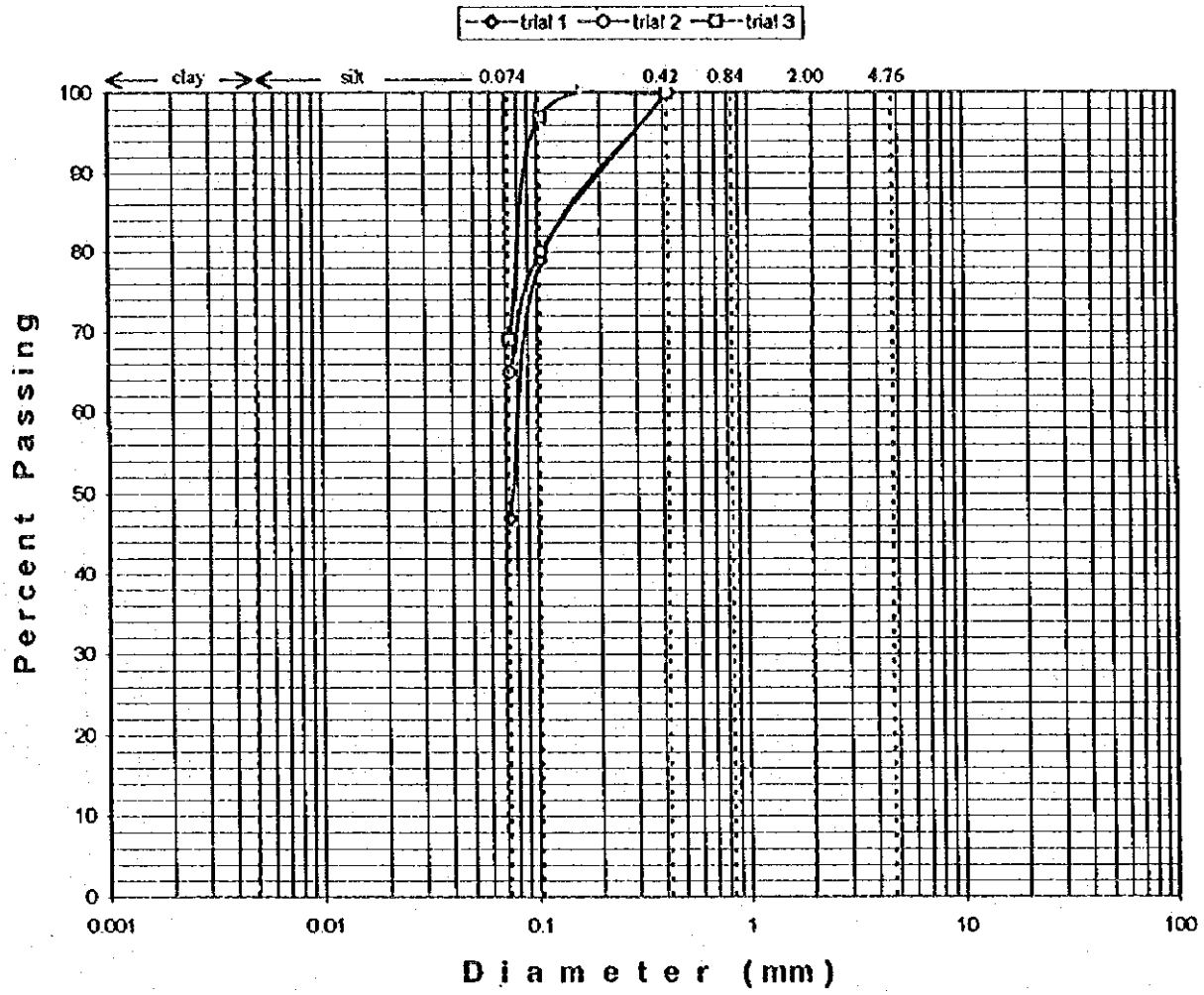


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*SILT, some sand
2			2					ML	*Sandy SILT
3			3					ML	*Sandy SILT .
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: FRIENDSHIP BRIDGE LOCATION: Abacan River DATE SAMPLED: Sept. 6, 1995 DATE TESTED: Sept. 11, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

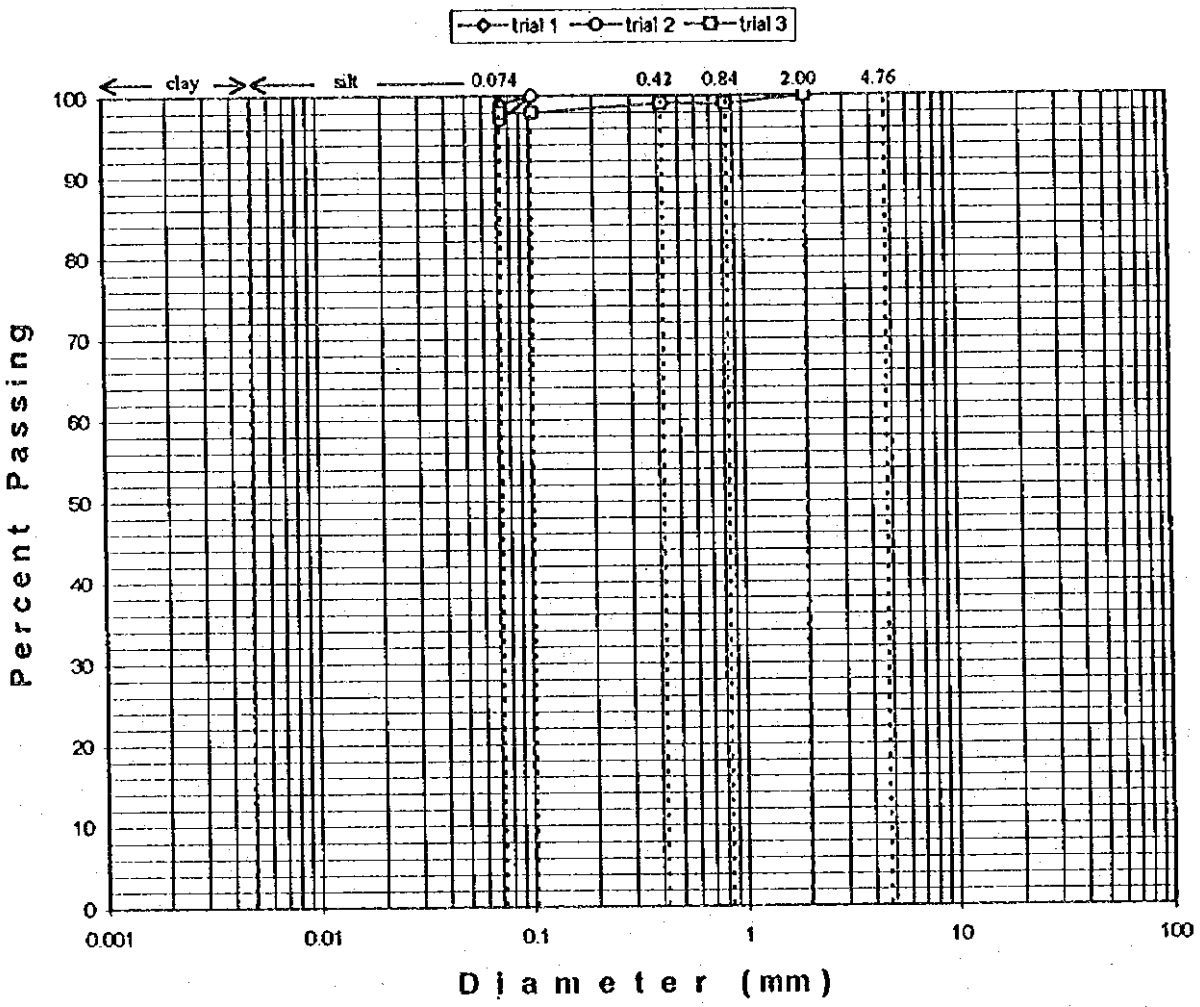


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					SM	*Silty SAND
2			2					ML	*Sandy SILT
3			3					ML	*Sandy SILT
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: FRIENDSHIP BRIDGE LOCATION: Abacan River DATE SAMPLED: Sept. 14, 1995 DATE TESTED: Sept. 18, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

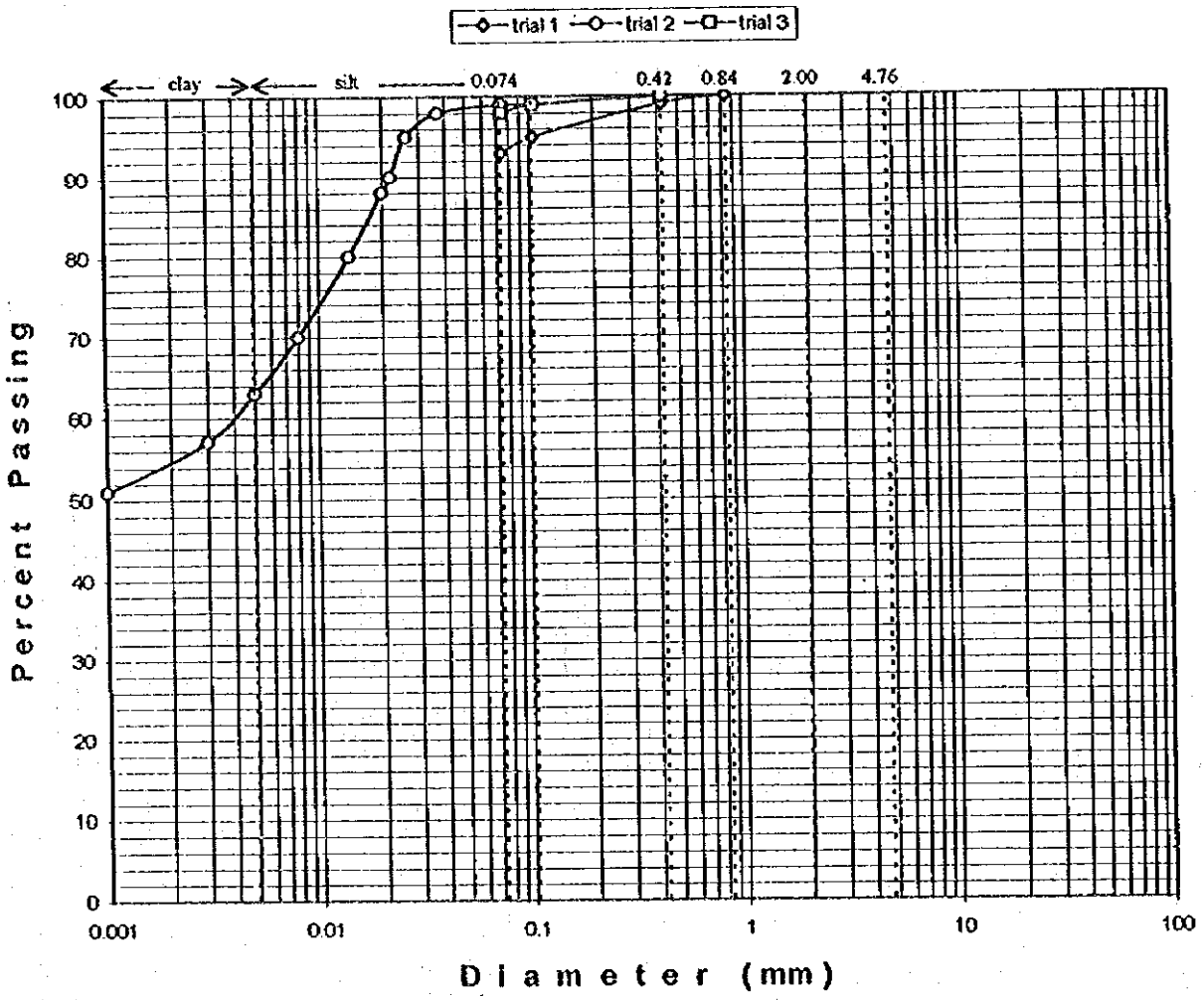


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*SILT, traces of fine sand
2			2					ML	*SILT, traces of fine sand
3			3					ML	*SILT, traces of fine sand
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: FRIENDSHIP BRIDGE LOCATION: Abaçan River DATE SAMPLED: October 1, 1995 DATE TESTED: October 5, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*SILT, traces of fine sand
2			2					CL-ML	Silty CLAY, traces of sand
3			3					ML	*SILT, traces of fine sand
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

SUMMARY OF LABORATORY TEST RESULTS --CAPAYA BRIDGE

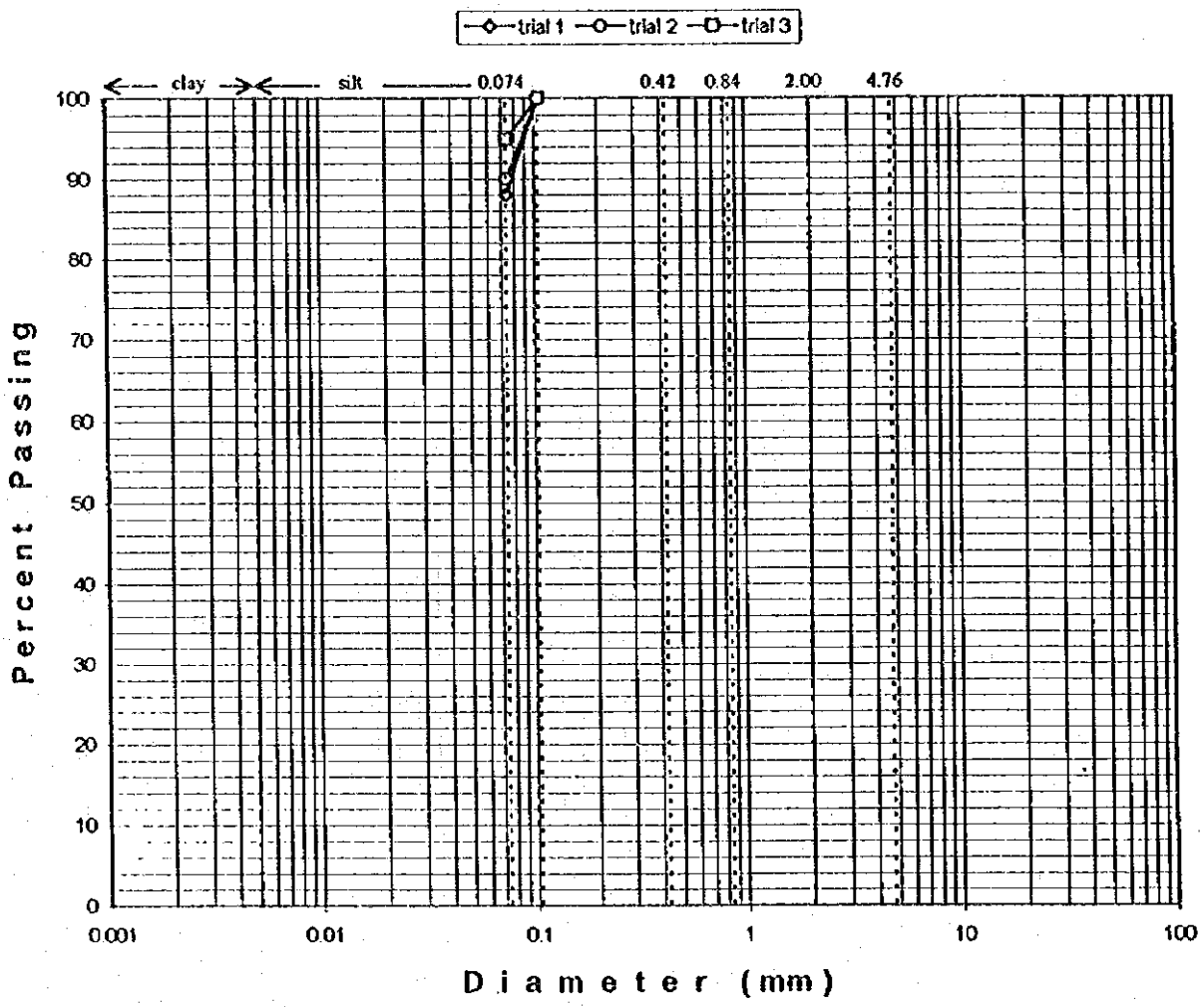
Date of Sampling	Trial No.	Unit Wt. (kN/m³)	Available Moist. %	Specific Gravity	Grain Size Distribution				Soil Class.
					% Gravel	% Sand	% Silt	% Clay	
31-Jul 1995	1	9.81	99.91	I.S	0	3	67	30	ML
	2	9.91	99.88	I.S	0	1	99*		ML
	3	9.91	99.44	I.S	0	2	98*		ML
	Average	**9.88**	**99.74**		**0**	**2**	N.A.		
28-Aug 1995	1	9.99	99.62	I.S	0	8	92*		ML
	2	9.84	99.67	I.S	0	9	90*		ML
	3	10.03	99.72	I.S	0	8	88*		ML
	Average	**9.95**	**99.67**		**0**	**8**	**92***		
6-Sep 1995	1	10.00	99.89	I.S	0	52	48*		SM-ML
	2	9.91	99.74	I.S	0	38	62*		ML
	3	10.00	99.86	I.S	0	42	58*		ML
	Average	**9.97**	**99.83**		**0**	**44**	**56***		
14-Sep 1995	1	9.81	99.70	I.S	0	45	55*		ML
	2	9.81	99.90	I.S	0	40	60*		ML
	3	11.77	99.70	I.S	0	17	83*		ML
	Average	**10.46**	**99.77**		**0**	**34**	**66***		
1-Oct 1995	1	10.49	89.83	2.51	0	37	63*		ML
	2	10.20	90.39	2.53	0	30	70*		ML
	3	10.00	89.71	2.52	0	28	72		ML
	Average	**10.23**	**89.98**	**2.52**	**0**	**32**	**68***		

Note:

1. Available moisture (%) is defined as the ratio of the wt. of water to the total wt. of sample in per 100% means practically zero sediments.
2. I.S. - Insufficient sample for testing.
3. * - Insufficient sample for hydrometer test.
4. Numbers with * indicate the cumulative amount of silt and clay.

GRAIN SIZE ANALYSIS	SITE: Capaya Bridge LOCATION: Abacan River DATE SAMPLED: July 31, 1995 DATE TESTED: August 7, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

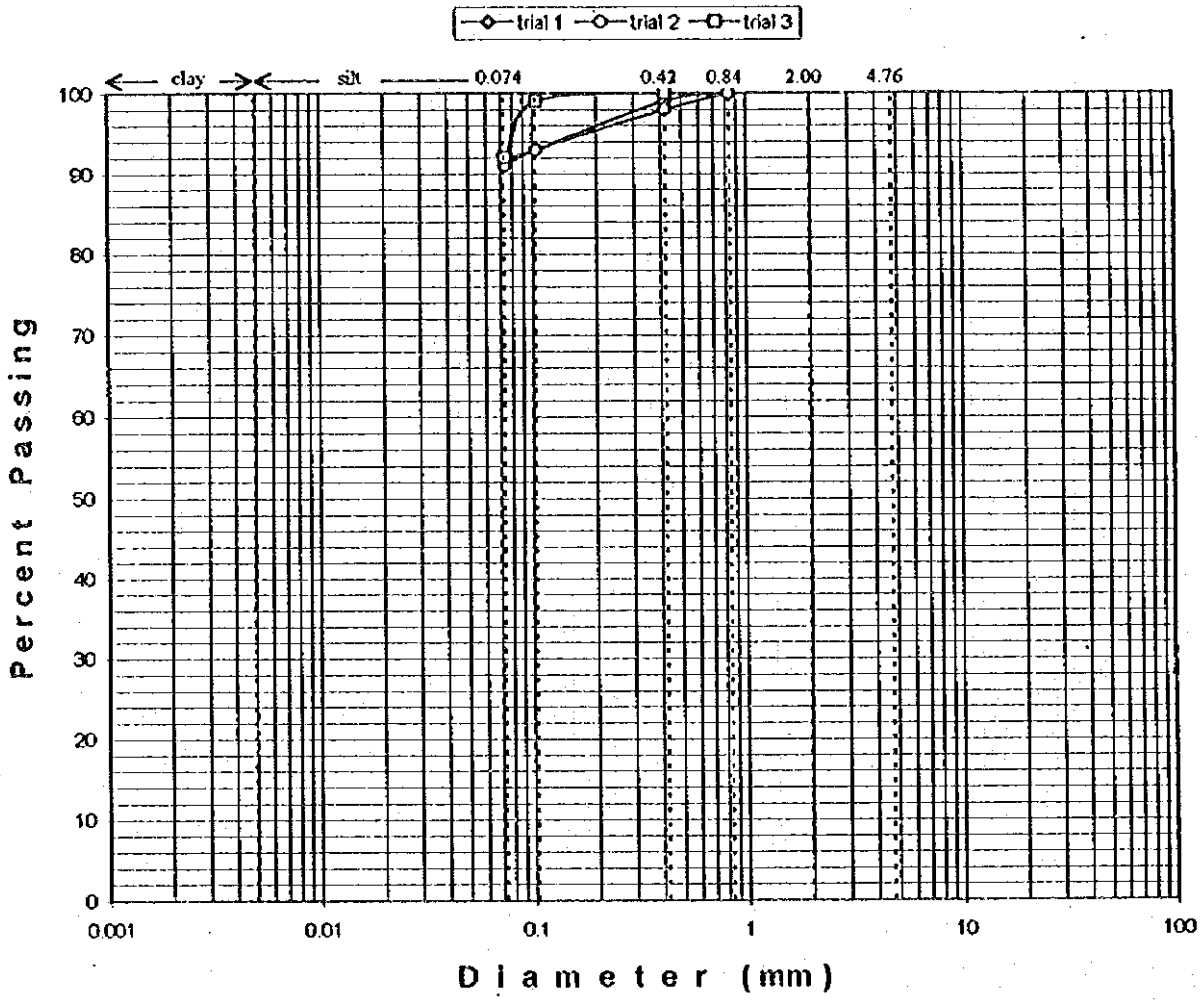


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*SILT, traces of fine sand.
2			2					ML	* - same -
3			3					ML	* - same -
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: CAPAYA BRIDGE LOCATION: Abacan River DATE SAMPLED: August 28, 1995 DATE TESTED: August 31, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

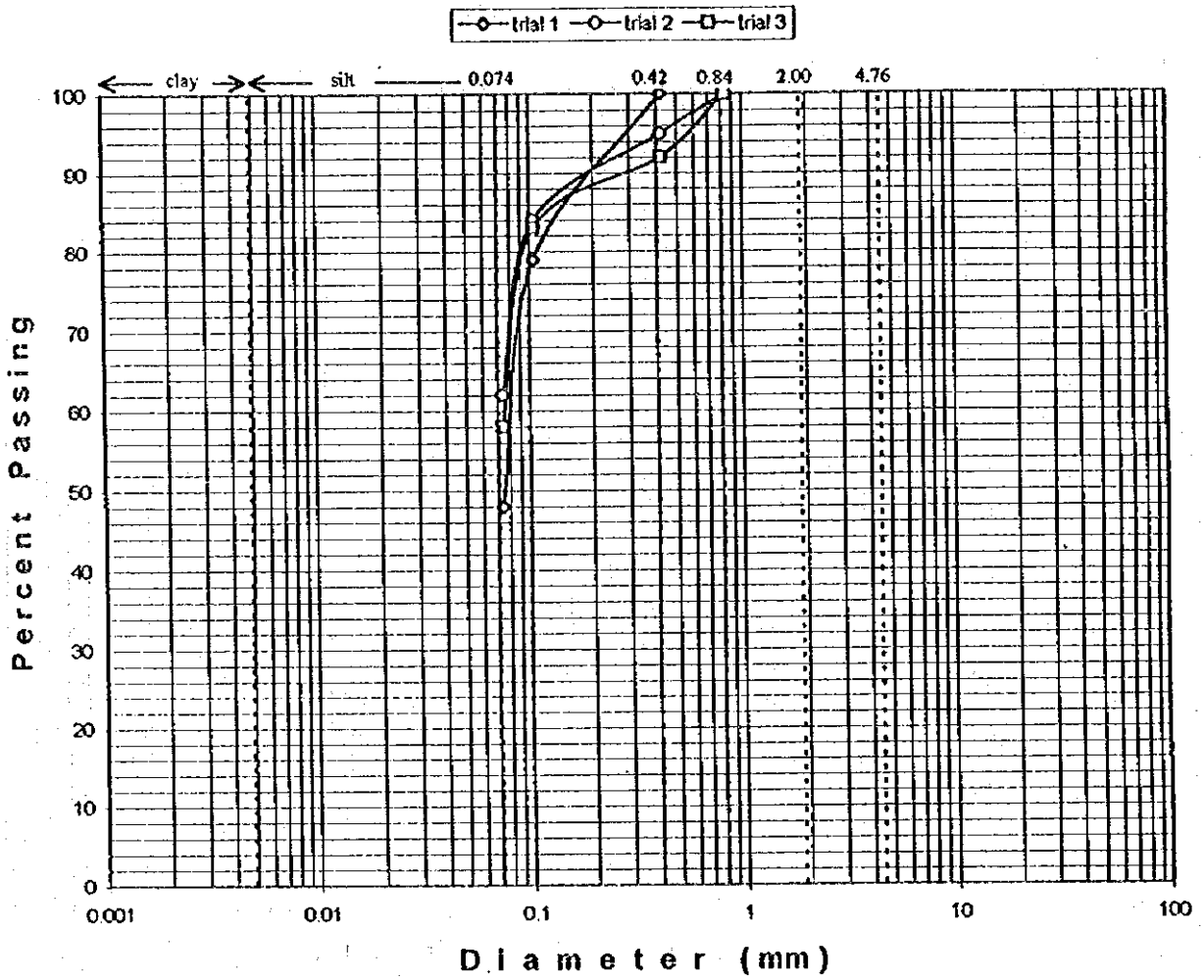


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*SILT, traces of fine sand
2			2					ML	*SILT, traces of fine sand
3			3					ML	*SILT, traces of fine sand
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: CAPAYA BRIDGE LOCATION: Abacan River DATE SAMPLED: Sept. 6, 1995 DATE TESTED: Sept. 11, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

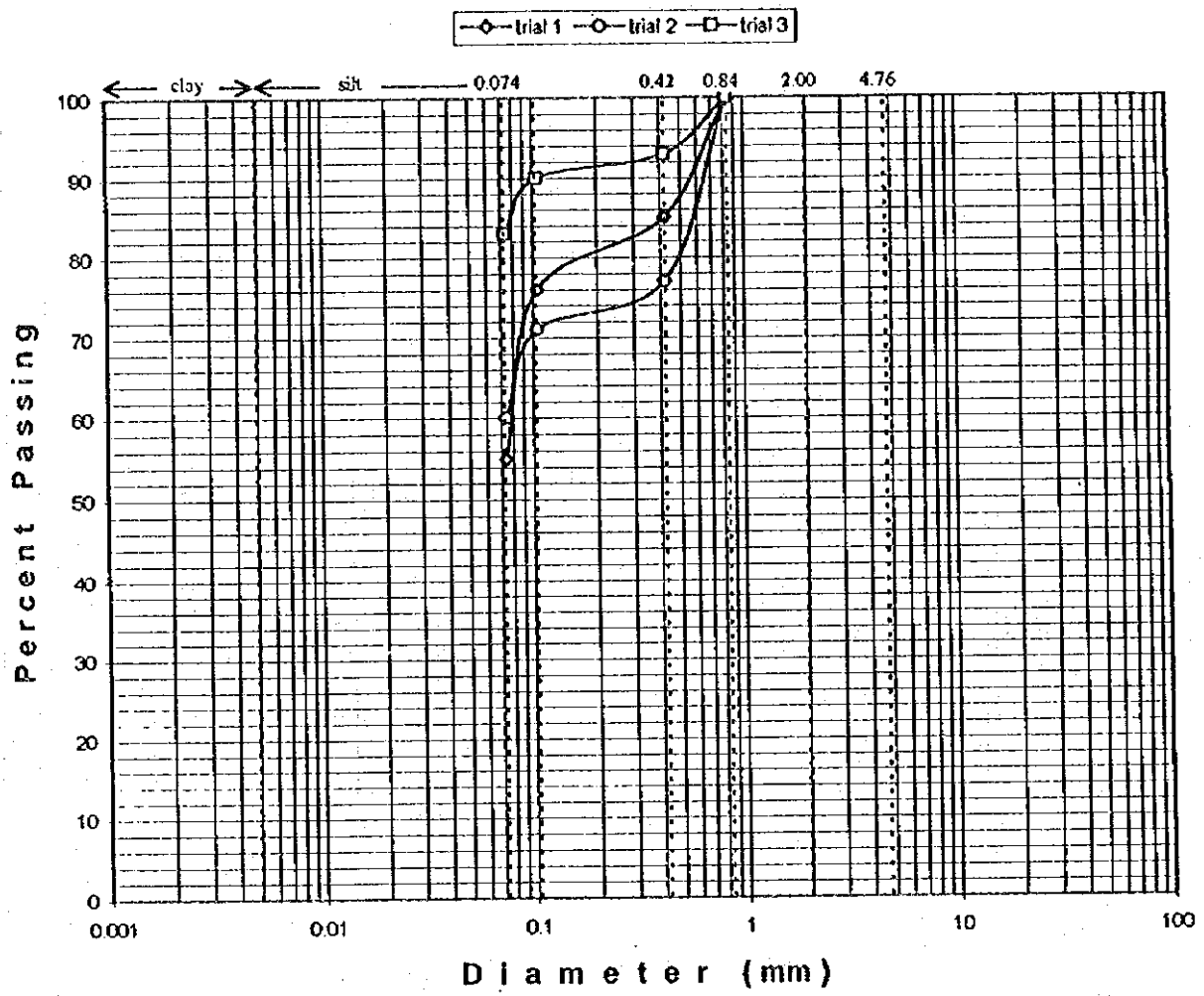


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					SM-ML	SILT & SAND
2			2					ML	*Sandy SILT
3			3					ML	*Sandy SILT
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: CAPAYA BRIDGE LOCATION: Abacan River DATE SAMPLED: Sept. 14 , 1995 DATE TESTED: Sept. 18, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

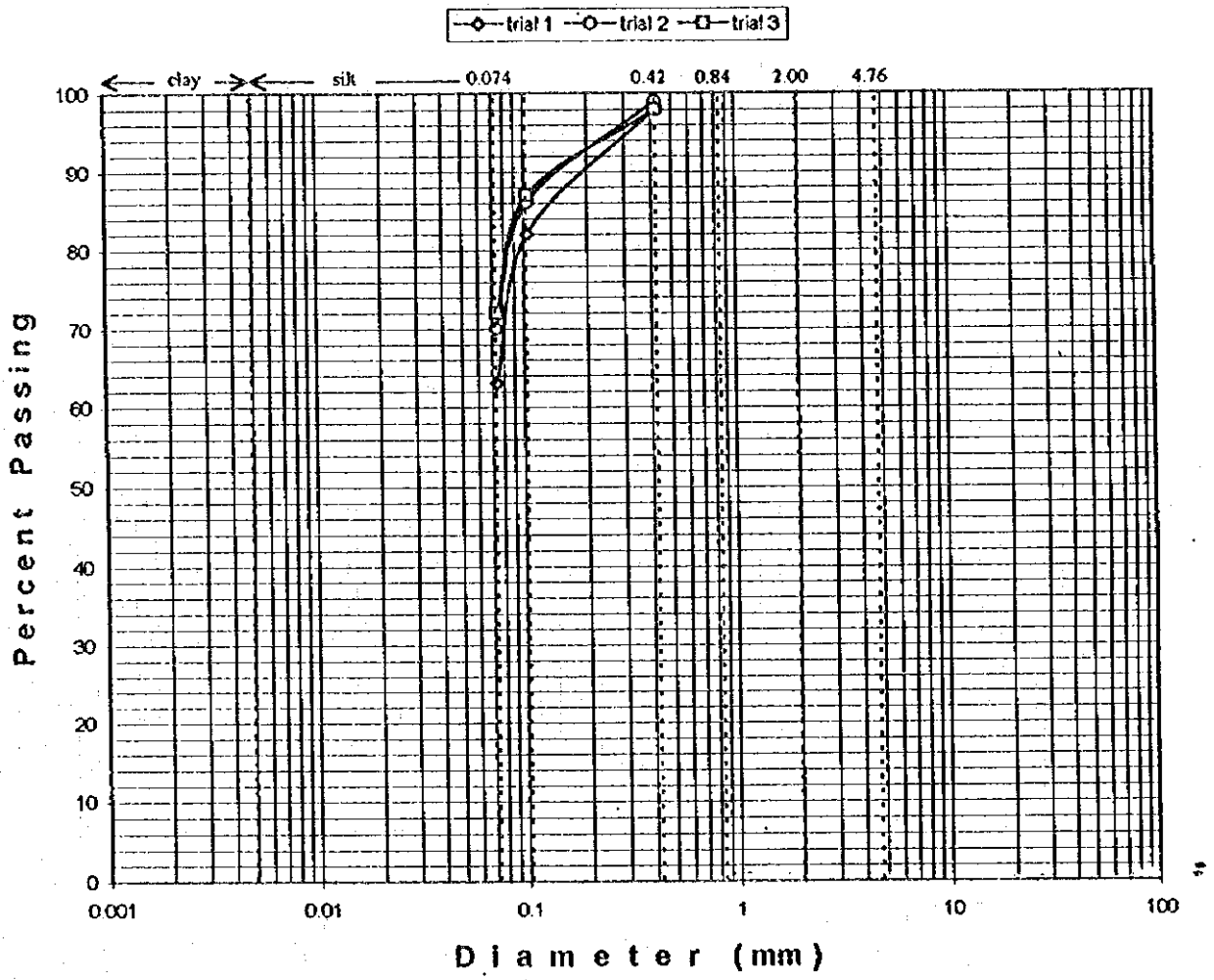


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*Sandy SILT
2			2					ML	*Sandy SILT
3			3					ML	*SILT, little amt. of fine sand
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: CAPAYA BRIDGE LOCATION: Abacan River DATE SAMPLED: October 1, 1995 DATE TESTED: October 5, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*Sandy SILT
2			2					ML	*Sandy SILT
3			3					ML	*Sandy SILT
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

SUMMARY OF LABORATORY TEST RESULTS --NINOY AQUINO BRIDGE

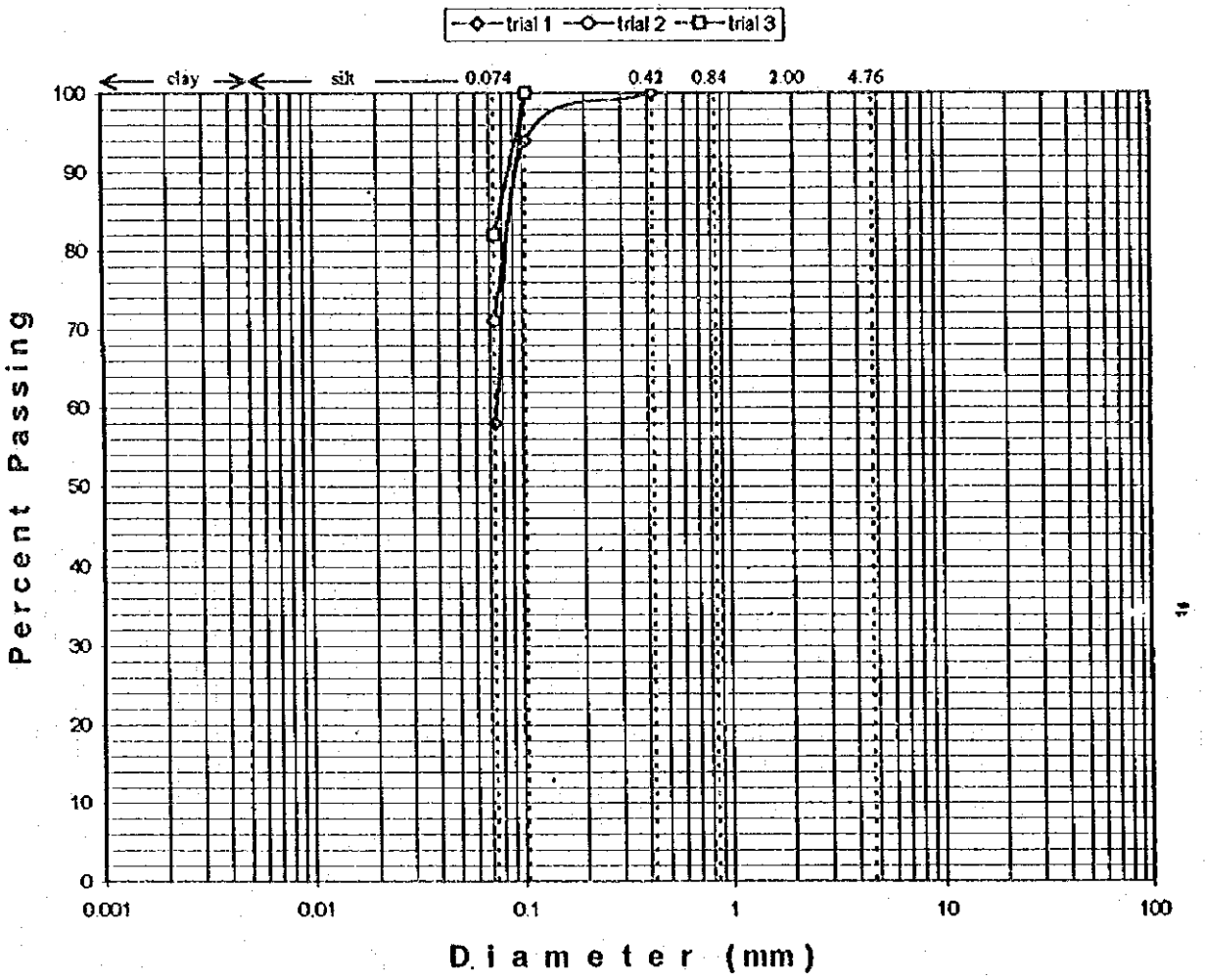
Date of Sampling	Trial No.	Unit Wt. (kN/m^3)	Available Moist. %	Specific Gravity	Grain Size Distribution				Soil Class.
					% Gravel	% Sand	% Silt	% Clay	
31-Jul 1995	1	10.00	99.77	I.S	0	42	58*		ML
	2	9.81	99.77	I.S	0	29	71*		ML
	3	10.00	99.78	I.S	0	18	82*		ML
	Average	**9.94**	**99.77**		**0**	**30**	**70***		
28-Aug 1995	1	10.20	99.91	I.S	0	21	79*		ML
	2	9.81	99.91	I.S	0	28	78*		ML
	3	10.10	99.85	I.S	0	29	71		ML
	Average	**10.04**	**99.89**		**0**	**26**	**74***		
6-Sep 1995	1	9.81	99.87	I.S	0	46	54*		ML
	2	9.91	99.85	I.S	0	51	49*		SM-ML
	3	9.81	99.86	I.S	0	40	60*		ML
	Average	**9.84**	**99.86**		**0**	**46**	**54***		
14-Sep 1995	1	11.77	99.60	I.S	0	52	48*		SM-ML
	2	11.77	99.60	I.S	0	39	61*		ML
	3	11.77	99.50	I.S	0	10	90*		ML
	Average	**11.77**	**99.57**		**0**	**34**	**66***		
1-Oct 1995	1	10.40	96.17	2.37	0	2	59	40	ML
	2	10.20	96.54	2.35	0	1	99*		ML
	3	10.29	95.58	2.46	0	2	98*		ML
	Average	**10.30**	**96.10**	**2.39**	**0**	**2**	**N.A.**	**N.A.**	

Note:

1. Available moisture (%) is defined as the ratio of the wt. of water to the total wt. of sample in per 100% means practically zero sediments.
2. I.S. - Insufficient sample for testing.
3. * - Insufficient sample for hydrometer test.
4. Numbers with * indicate the cumulative amount of silt and clay.

GRAIN SIZE ANALYSIS	SITE: San Juan Mexico Bridge LOCATION: Abacan River DATE SAMPLED: July 31, 1995 DATE TESTED: August 7, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

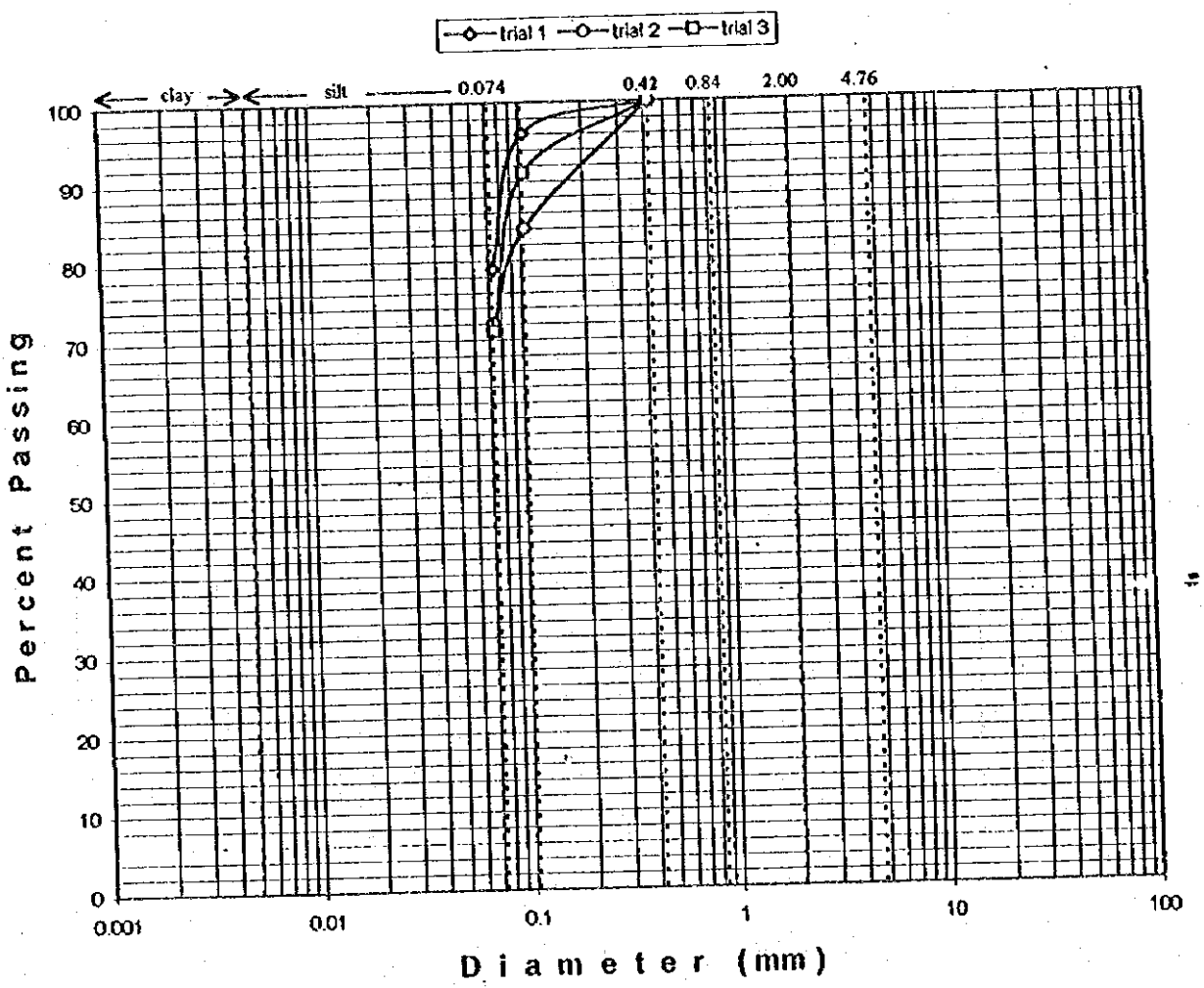


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*Sandy SILT
2			2					ML	* - same -
3			3					ML	*SILT, traces of fine sand
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: AQUINO BRIDGE LOCATION: Abacan River DATE SAMPLED: August 28, 1995 DATE TESTED: August 31, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

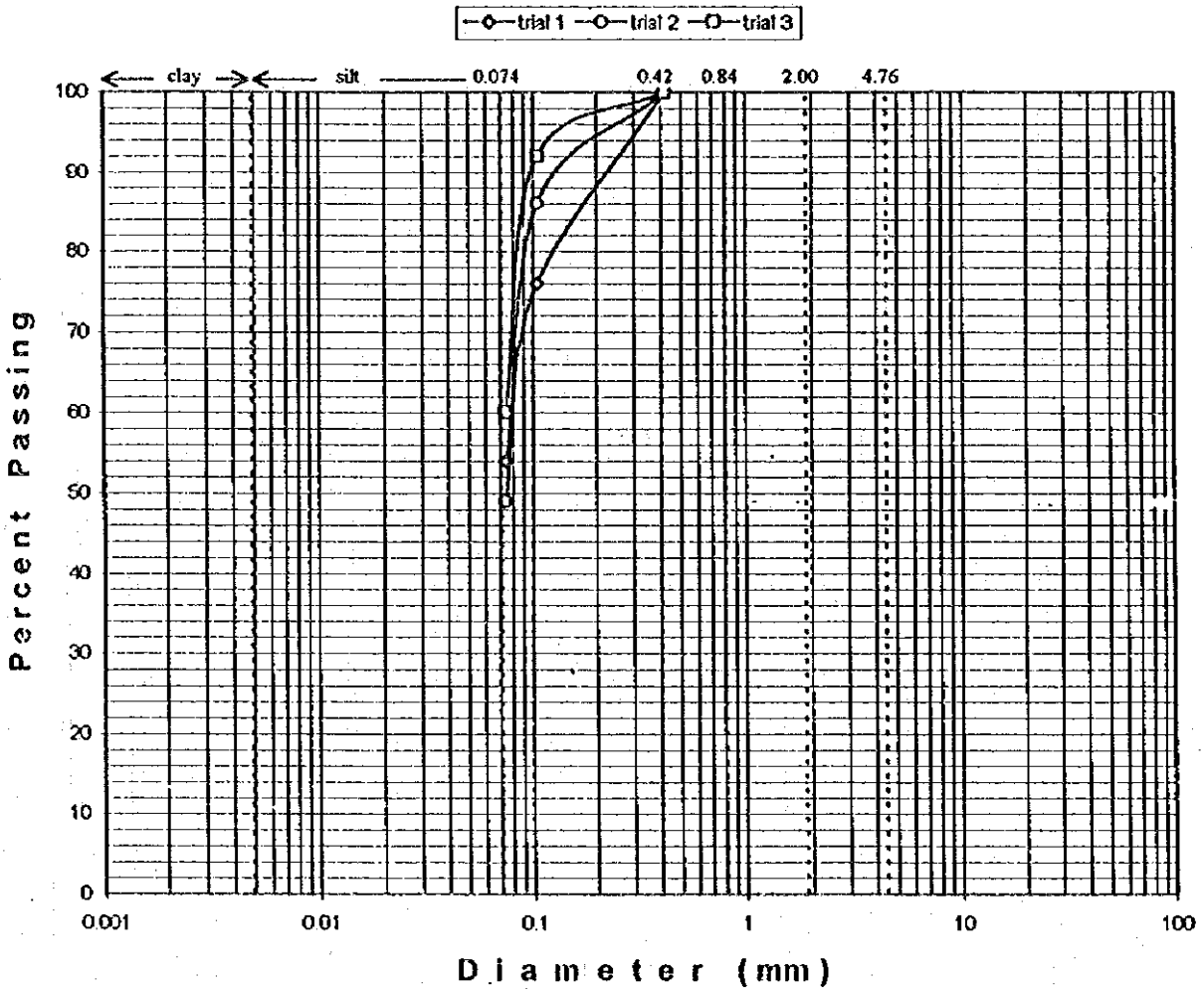


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*SILT, some sand.
2			2					ML	*Sandy SILT
3			3					ML	*Sandy SILT
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: NINOY AQUINO BRIDGE LOCATION: Abacan River DATE SAMPLED: Sept. 6, 1995 DATE TESTED: Sept. 11, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

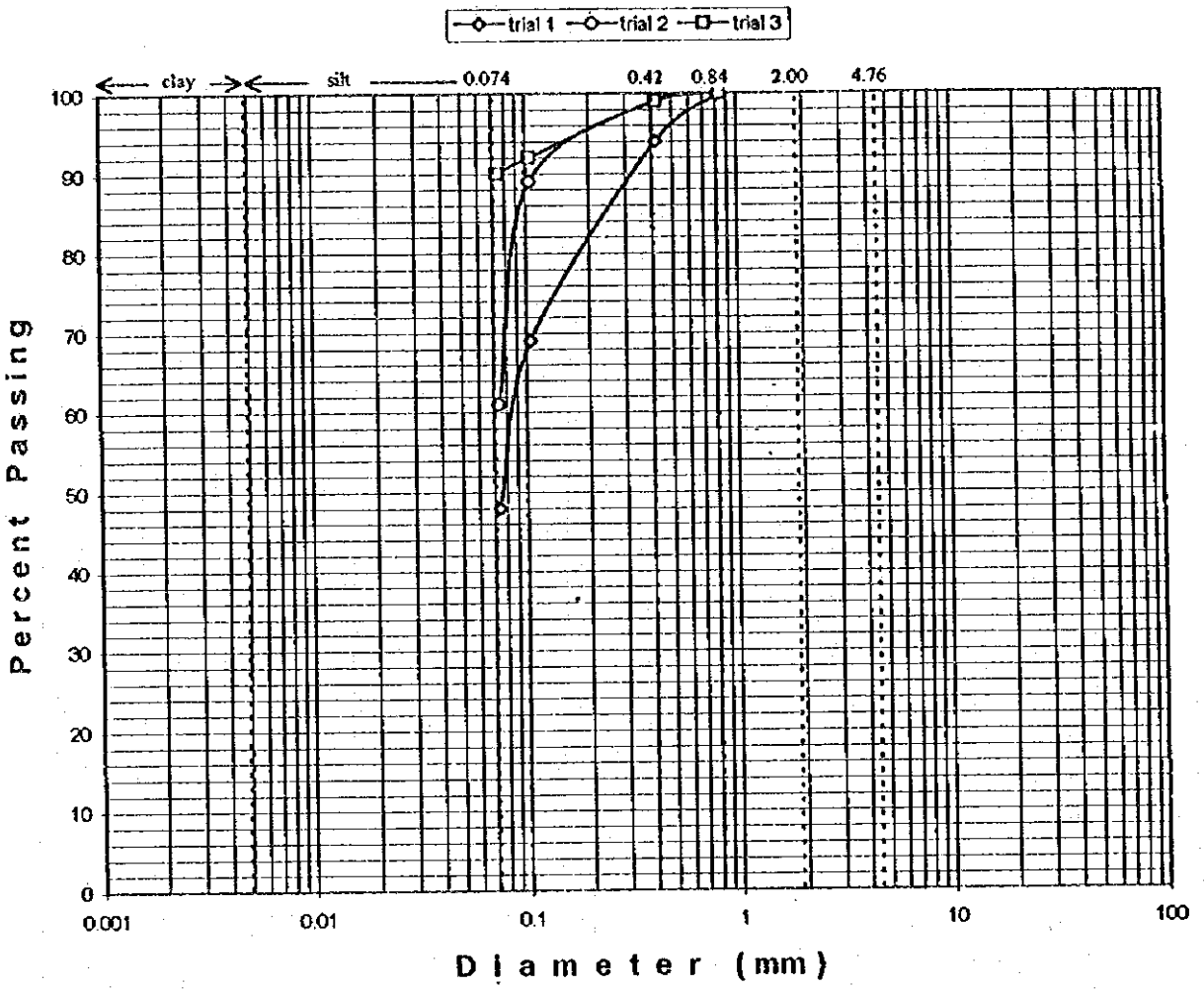


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*Sandy SILT
2			2					SM-ML	*SAND & SILT
3			3					ML	*Sandy SILT
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: NINOY AQUINO BRIDGE LOCATION: Abacan River DATE SAMPLED: Sept. 14, 1995 DATE TESTED: Sept. 18, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

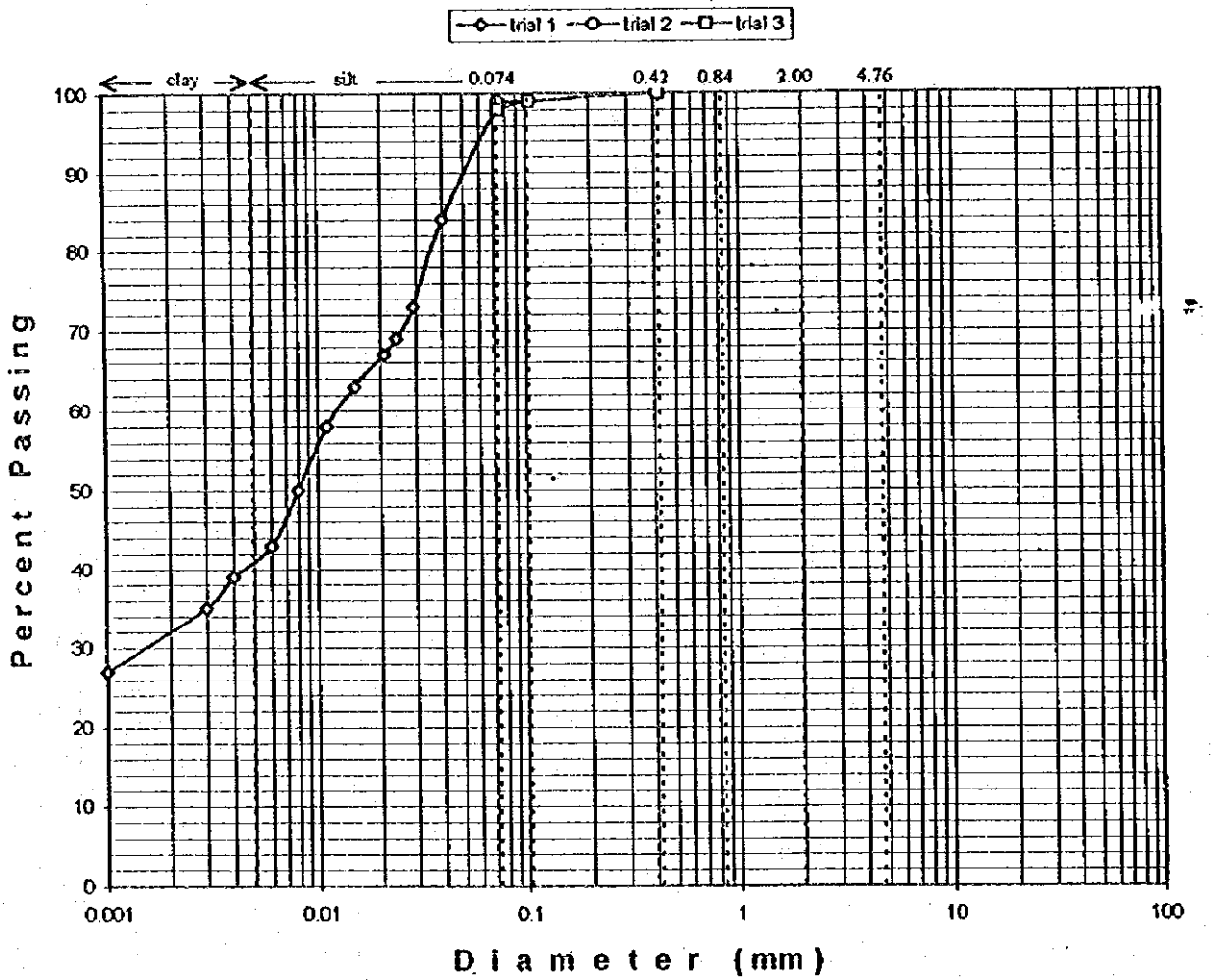


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					SM-ML	*SAND & SILT
2			2					ML	*Silty SAND
3			3					ML	*SILT, traces of fine sand
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: NINOY AQUINO LOCATION: Abacan River DATE SAMPLED: October 1, 1995 DATE TESTED: October 5, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	Clayey SILT, traces of sand
2			2					ML	*SILT, traces of fine sand
3			3					ML	*SILT, traces of fine sand
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

SUMMARY OF LABORATORY TEST RESULTS --MEXICO SPILLWAY

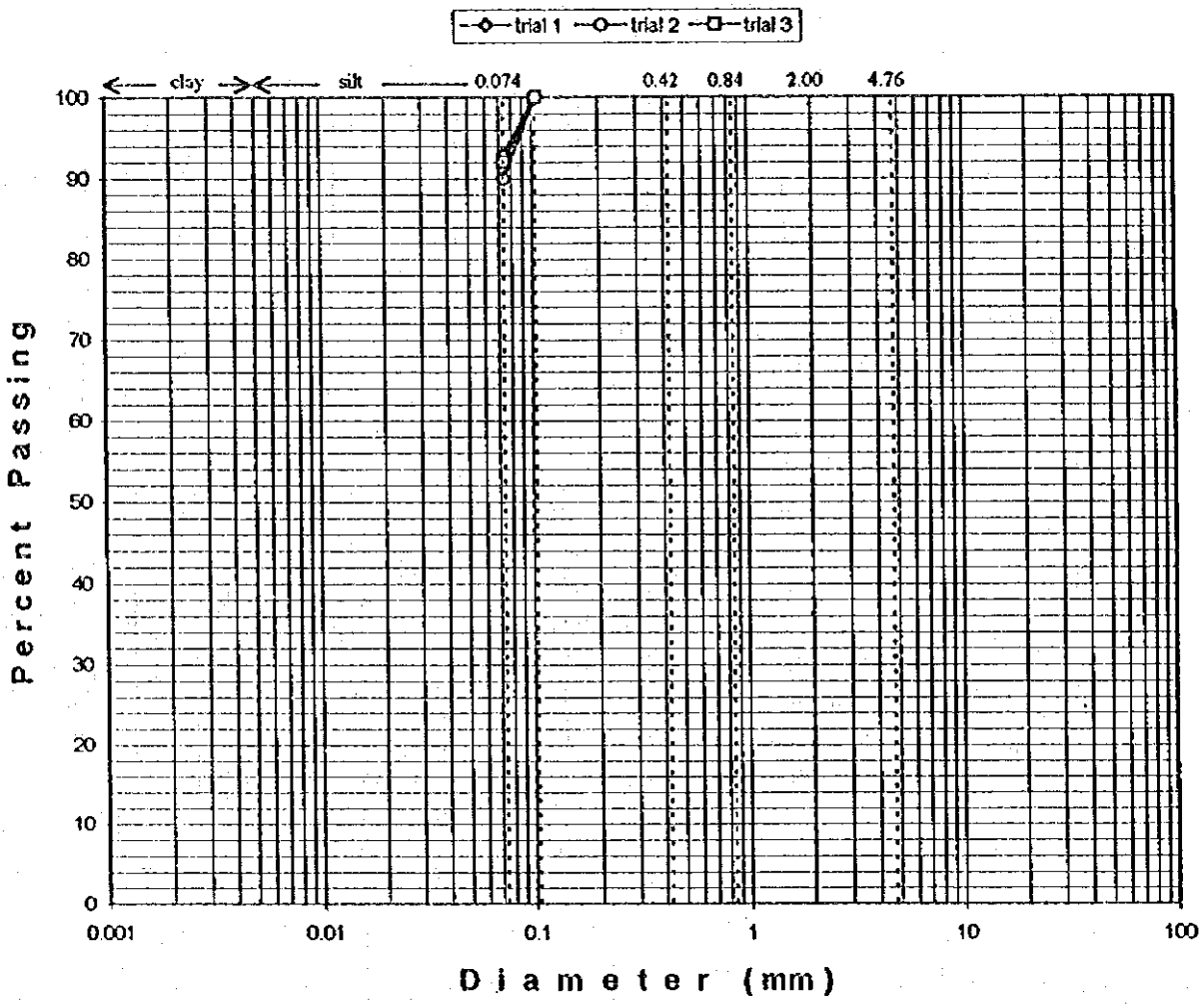
Date of Sampling	Trial No.	Unit Wt. (kN/m^3)	Available Moist. %	Specific Gravity	Grain Size Distribution				Soil Class.
					% Gravel	% Sand	% Silt	% Clay	
31-Jul 1995	1	9.91	99.83	I.S	0	7	93*		ML
	2	9.91	99.72	I.S	0	10	90*		ML
	3	9.91	99.85	I.S	0	8	92		ML
	Average	**9.91**	**99.80**		**0**	**8**	**92***		
28-Aug 1995	1	9.91	99.88	I.S	0	10	90*		ML
	2	9.86	99.88	I.S	0	11	89*		ML
	3	10.30	99.85	I.S	0	8	92*		ML
	Average	**10.02**	**99.87**		**0**	**10**	**90***		
6-Sep 1995	1	9.81	99.90	I.S	0	51	49*		SM-ML
	2	9.81	99.85	I.S	0	34	66*		ML
	3	9.81	99.90	I.S	0	34	66*		ML
	Average	**9.81**	**99.88**		**0**	**40**	**60***		
14-Sep 1995	1	9.81	99.70	I.S	0	11	89*		ML
	2	10.79	99.80	I.S	0	14	86*		ML
	3	10.79	99.80	I.S	0	43	57*		ML
	Average	**10.46**	**99.77**		**0**	**23**	**77***		
1-Oct 1995	1	10.10	98.03	I.S	0	3	97*		ML
	2	10.49	97.80	I.S	0	1	99*		ML
	3	10.30	97.57	I.S	0	1	99*		ML
	Average	**10.30**	**97.80**		**0**	**2**	**98***		

Note:

1. Available moisture (%) is defined as the ratio of the wt. of water to the total wt. of sample in per 100% means practically zero sediments.
2. I.S. - Insufficient sample for testing.
3. * - Insufficient sample for hydrometer test.
4. Numbers with * indicate the cumulative amount of silt and clay.

GRAIN SIZE ANALYSIS	SITE: Mexico Spillway LOCATION: Abacan River DATE SAMPLED: July 31, 1995 DATE TESTED: August 7, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

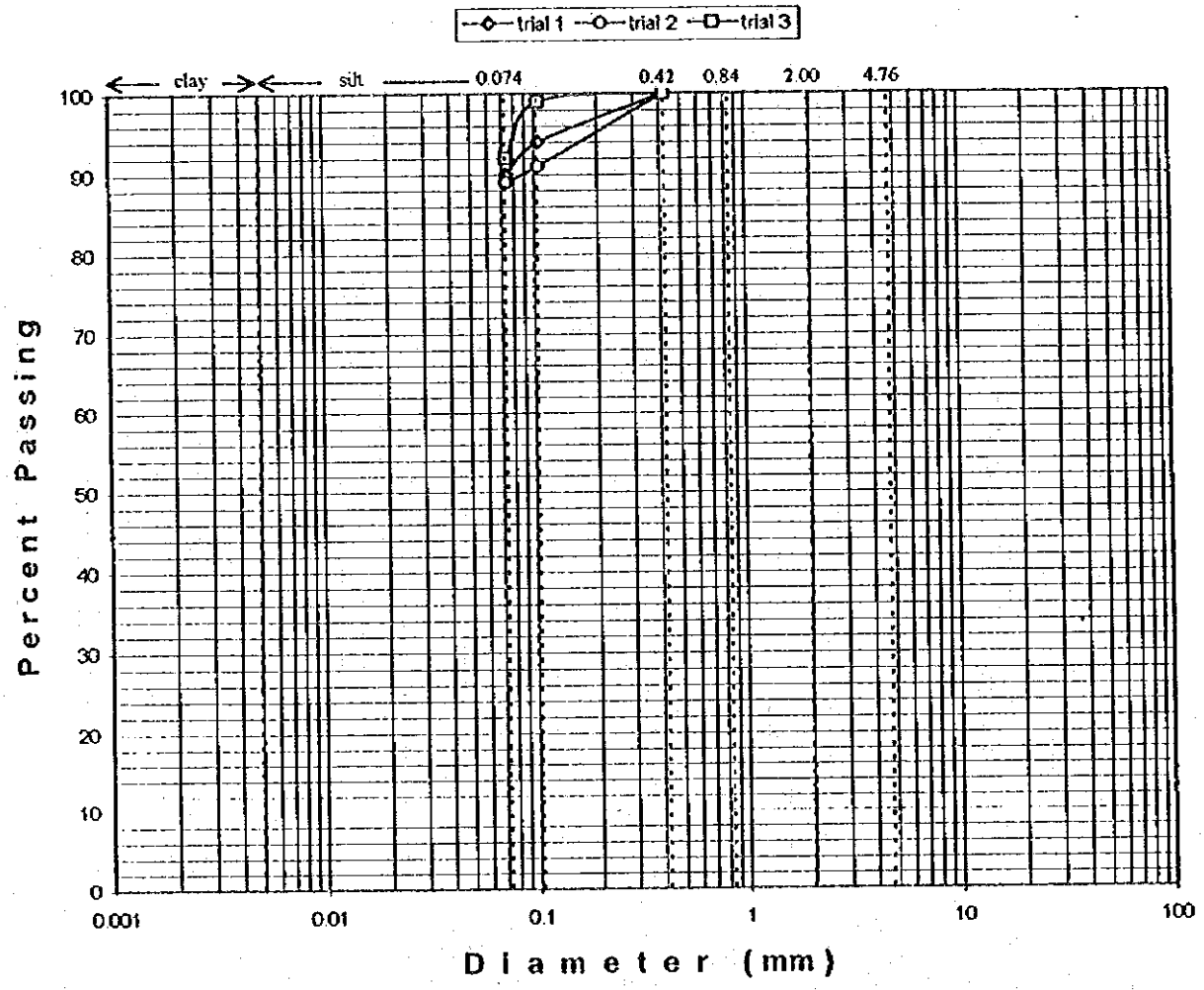


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*SILT, traces of fine sand.
2			2					ML	* - same -
3			3					ML	* - same -
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: MEXICO BRIDGE LOCATION: Abacan River DATE SAMPLED: August 28, 1995 DATE TESTED: August 31, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

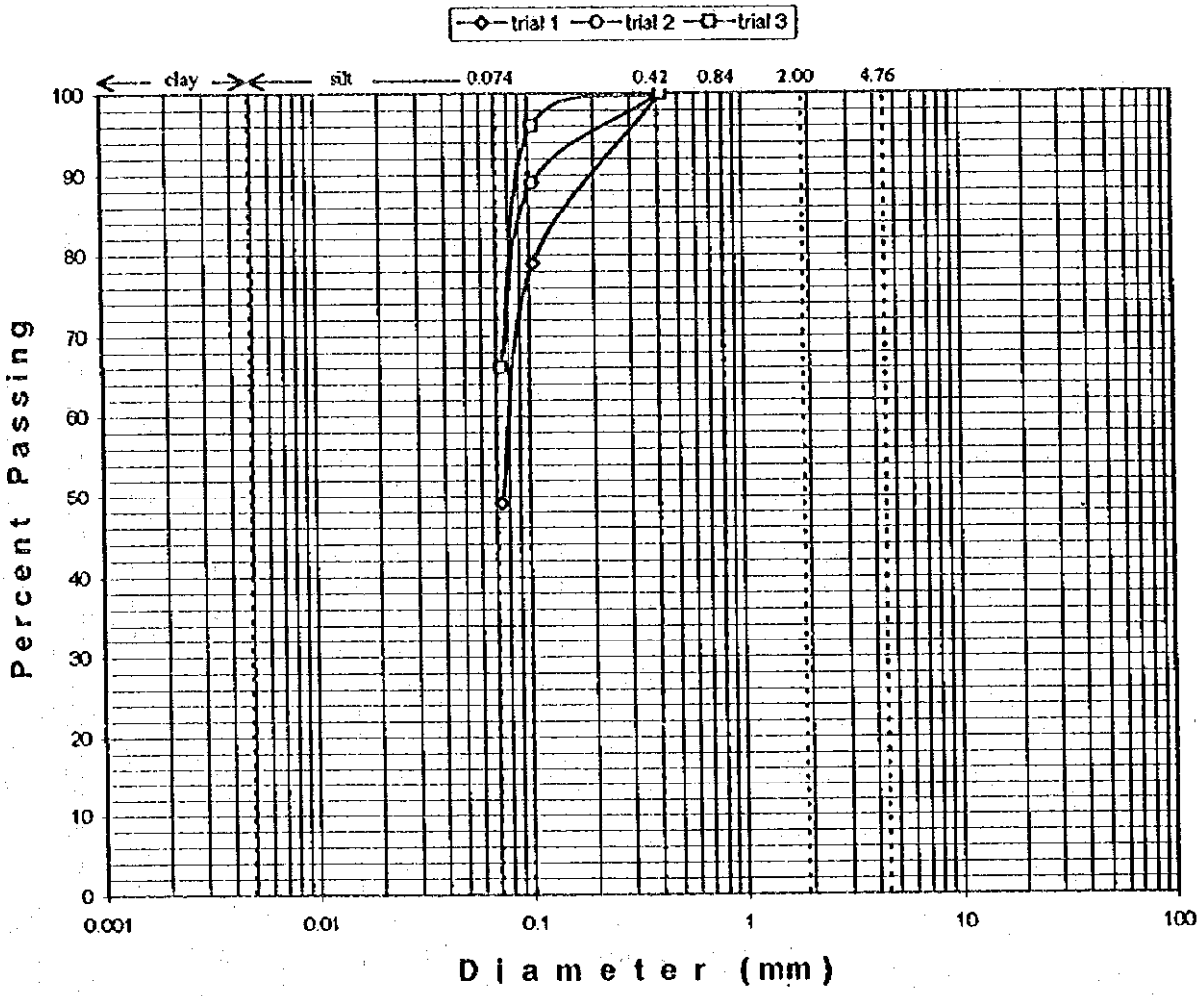


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*SILT, traces of fine sand
2			2					ML	*SILT, little amt. of fine sand
3			3					ML	*SILT, traces of fine sand
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: MEXICO SPILLWAY LOCATION: Abacan River DATE SAMPLED: Sept. 6, 1995 DATE TESTED: Sept. 11, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

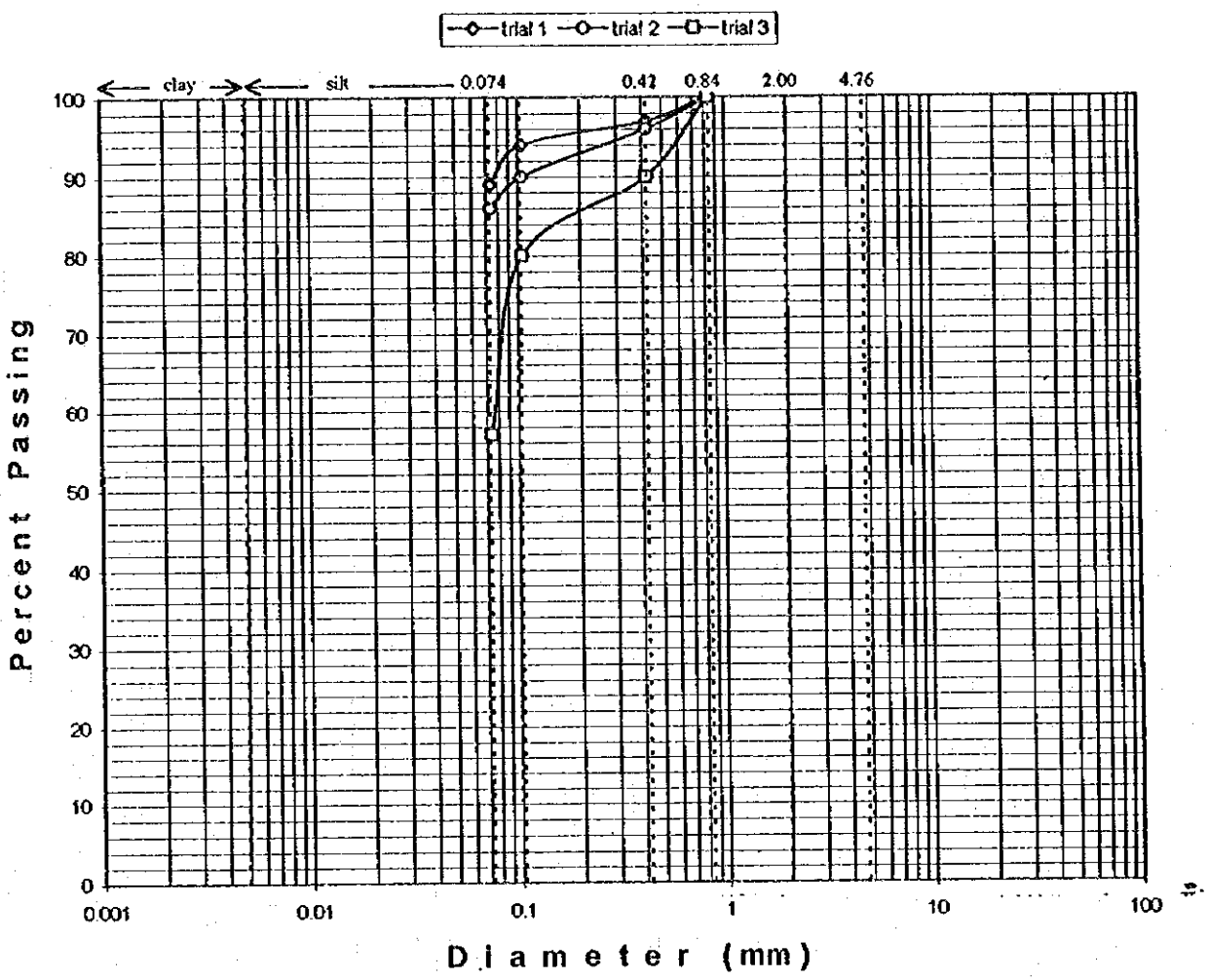


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					SM-ML	*SAND & SILT
2			2					ML	*Sandy SILT
3			3					ML	*Sandy SILT
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: MEXICO SPILLWAY LOCATION: Abacan River DATE SAMPLED: Sept. 14, 1995 DATE TESTED: Sept. 18, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

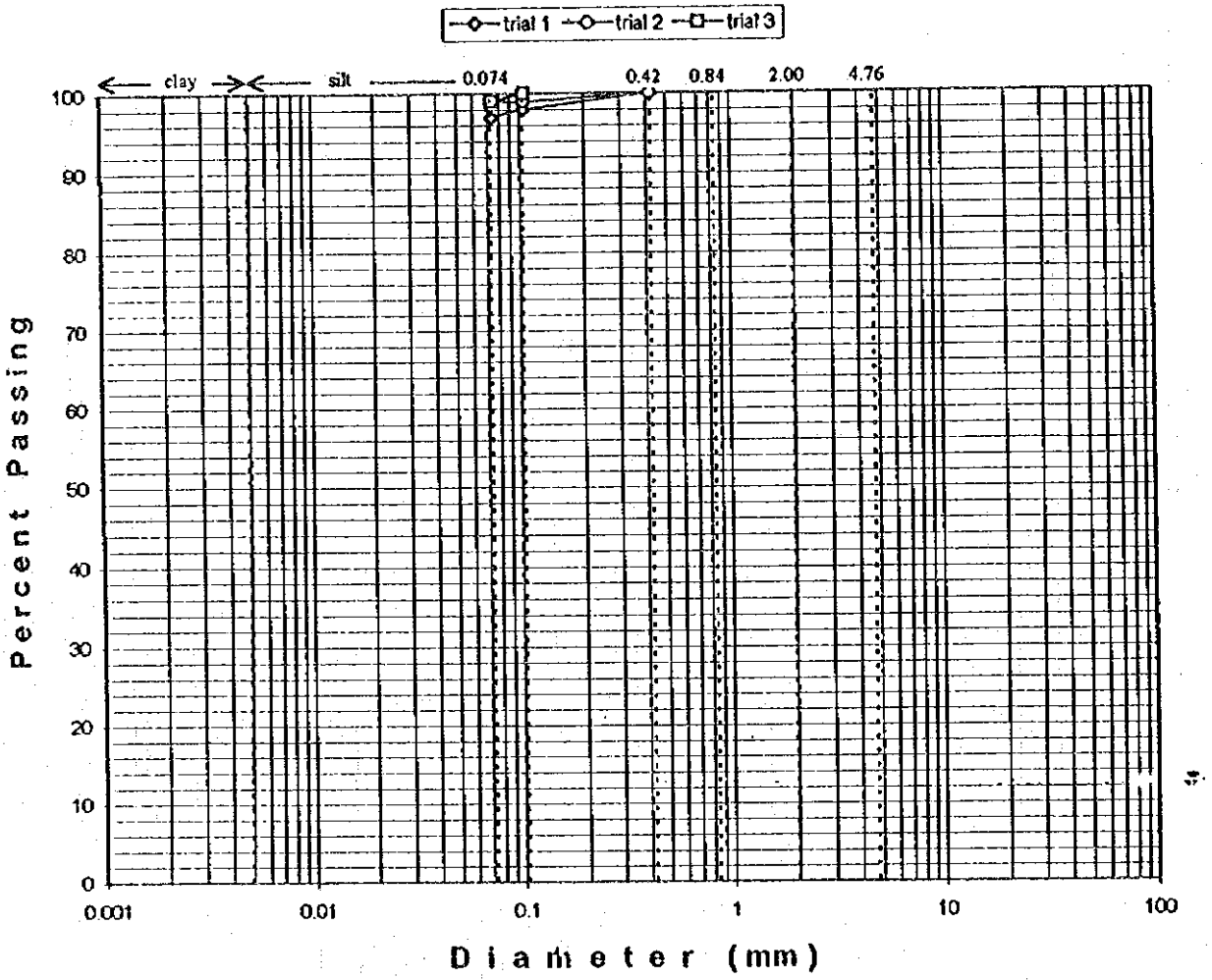


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*SILT, little amt. of fine sand
2			2					ML	*SILT, little amt. of fine sand
3			3					ML	*Sandy SILT
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: MEXICO SPILLWAY LOCATION: Abacan River DATE SAMPLED: October 1, 1995 DATE TESTED: October 5, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*SILT, traces of fine sand
2			2					ML	*SILT, traces of fine sand
3			3					ML	*SILT, traces of fine sand
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

III.2 SACOBIA RIVER

SUMMARY OF LABORATORY TEST RESULTS --SAPANG BALEN BRIDGE

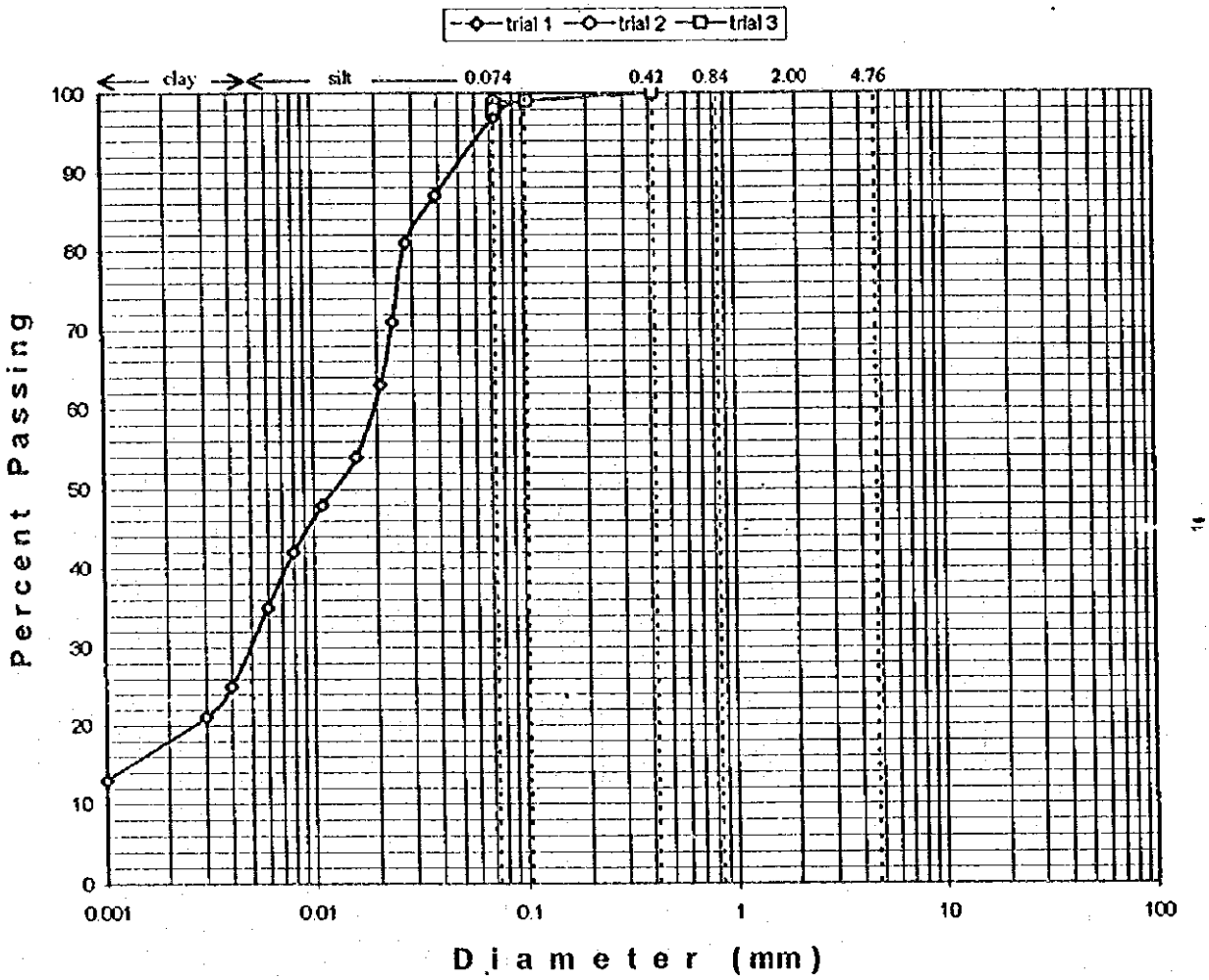
Date of Sampling	Trial No.	Unit Wt. (kN/m^3)	Available Moist. %	Specific Gravity	Grain Size Distribution				Soil Class.
					% Gravel	% Sand	% Silt	% Clay	
31-Jul 1995	1	10.10	95.59	2.55	0	3	67	30	ML
	2	10.40	92.85	2.52	0	1	99*		ML
	3	10.00	92.60	2.47	0	2	98*		ML
	Average	**10.17**	**93.68**	**N.A.**	**0**	**2**	**N.A.**	**N.A.**	
28-Aug 1995	1	9.81	99.56	I.S	0	13	87*		ML
	2	9.81	99.40	I.S	0	16	84*		ML
	3	9.81	99.60	I.S	0	7	93*		ML
	Average	**9.81**	**99.52**		**0**	**12**	**88***		
6-Sep 1995	1	9.81	99.89	I.S	0	57	43*		SM
	2	9.91	99.93	I.S	0	48	52*		SM-ML
	3	9.91	99.84	I.S	0	25	75*		ML
	Average	**9.88**	**99.89**		**0**	**43**	**57***		
14-Sep 1995	1	9.81	96.70	2.43	0	1	49	50	CL-ML
	2	11.77	98.00	2.46	0	5	95*		ML
	3	10.79	97.70	2.45	0	13	87*		ML
	Average	**10.79**	**97.47**	**2.45**	**0**	**6**	**N.A.**	**N.A.**	

Note:

1. Available moisture (%) is defined as the ratio of the wt. of water to the total wt. of sample in per 100% means practically zero sediments.
2. I.S. - Insufficient sample for testing.
3. * - Insufficient sample for hydrometer test.
4. Numbers with * indicate the cumulative amount of silt and clay.

GRAIN SIZE ANALYSIS	SITE: Sapang Balen LOCATION: Sacobia River DATE SAMPLED: July 31, 1995 DATE TESTED: August 7, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

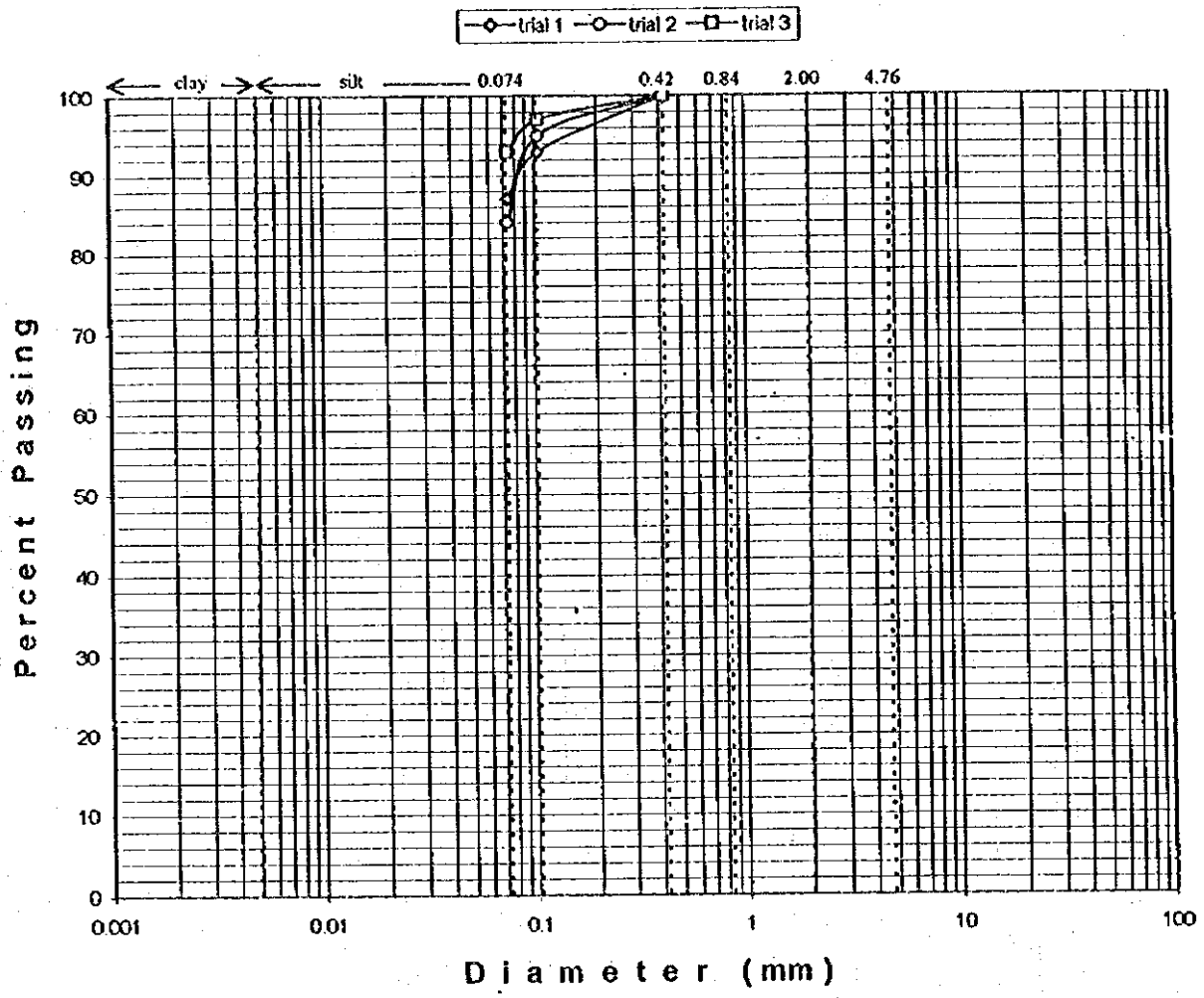


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	Clayey SILT, traces of sand.
2			2					ML	*SILT, traces of fine sand.
3			3					ML	* - same -
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: SAPANG BALEN LOCATION: Sacobia River DATE SAMPLED: August 28, 1995 DATE TESTED: August 31, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

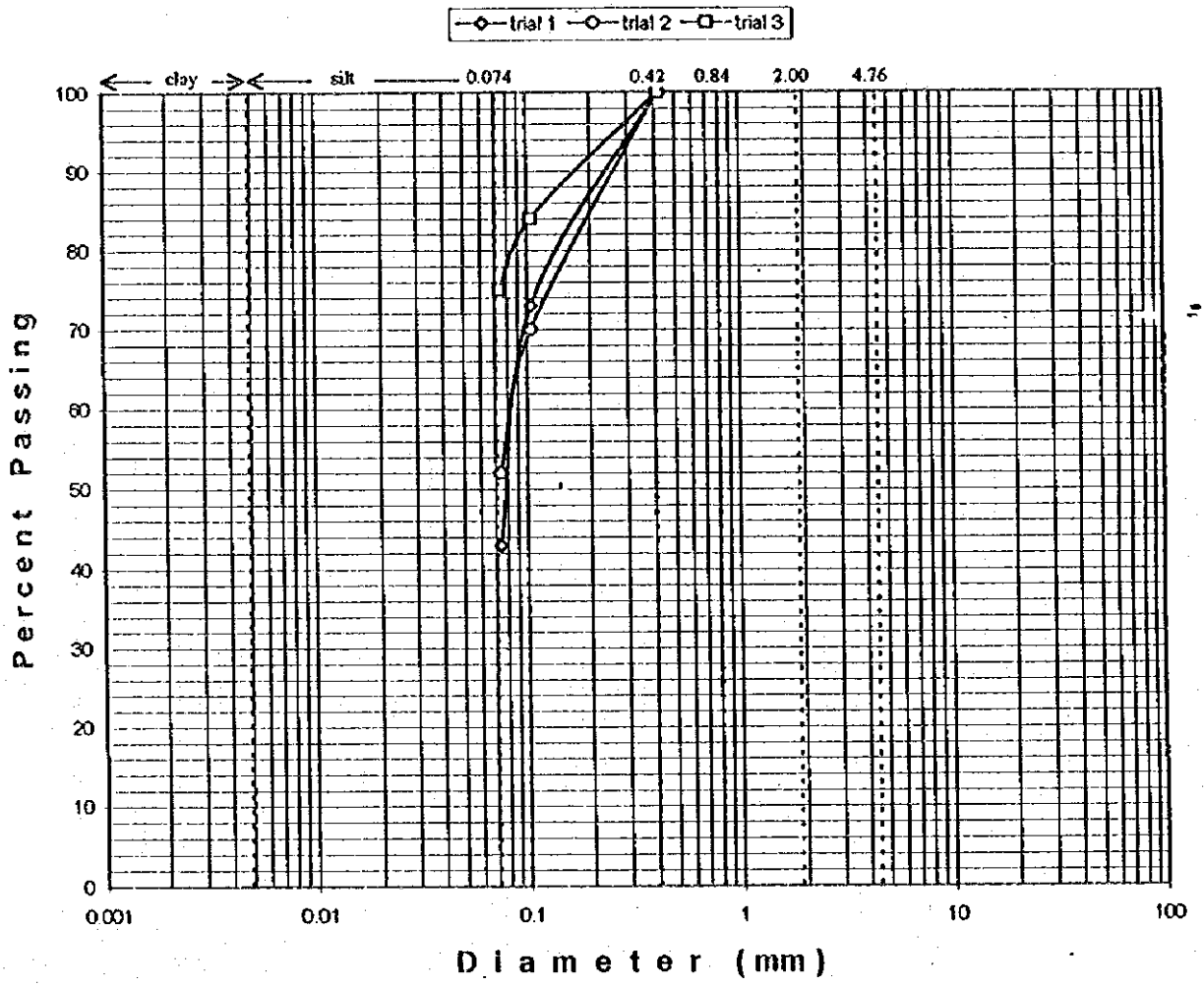


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*SILT, little amt. of fine sand
2			2					ML	*SILT, little amt. of fine sand
3			3					ML	*SILT, traces of fine sand
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: SAPANG BALEN BRIDGE LOCATION: Abacan River DATE SAMPLED: Sept. 6, 1995 DATE TESTED: Sept. 11, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

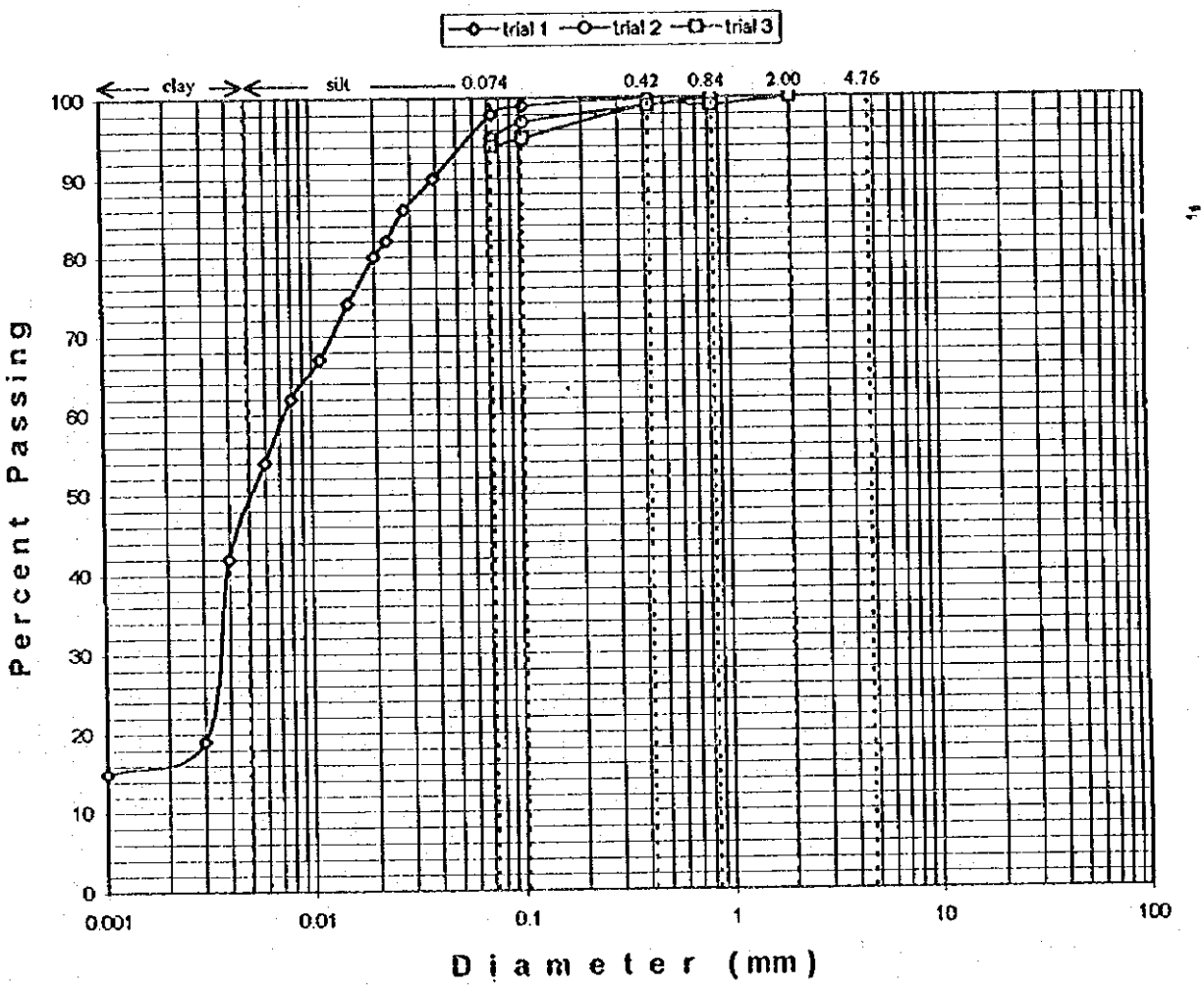


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					SM	*Silty SAND
2			2					SM-ML	*SAND & SILT
3			3					ML	*SILT, some sand.
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: SAPANG BALEN BRIDGE LOCATION: Sacobia River DATE SAMPLED: Sept. 14, 1995 DATE TESTED: Sept. 18, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	Lt	PL	PI	USCS	DESCRIPTION
1			1					CL-ML	CLAY & SILT
2			2					ML	*SILT, traces of fine sand
3			3					ML	*SILT, traces of fine sand
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

SUMMARY OF LABORATORY TEST RESULTS --BAIDBID BRIDGE

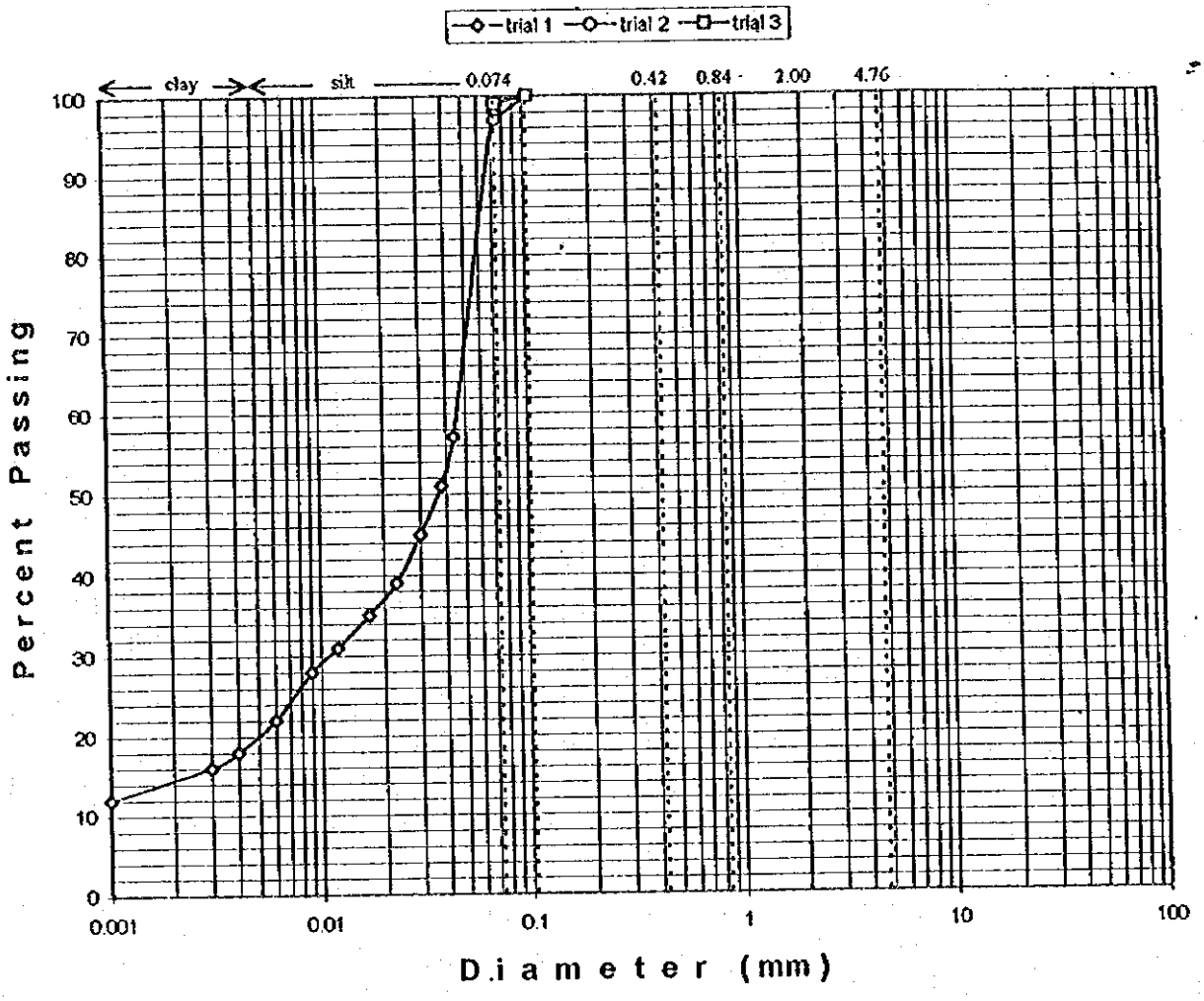
Date of Sampling	Trial No.	Unit Wt. (kN/m^3)	Available Moist. %	Specific Gravity	Grain Size Distribution				Soil Class.
					% Gravel	% Sand	% Silt	% Clay	
31-Jul 1995	1	10.10	92.35	2.52	0	2	78	20	ML
	2	10.10	92.35	2.55	0	3	97*		ML
	3	10.30	92.59	2.54	0	1	99*		ML
	Average	**10.17**	**92.43**	**2.54**	**0**	**2**	**N.A.**	**N.A.**	
28-Aug 1995	1	10.10	93.04	2.42	0	3	63	34	ML
	2	9.91	90.25	2.44	0	3	63	34	ML
	3	10.10	93.27	2.47	0	1	51	48	ML
	Average	**10.04**	**92.19**	**2.44**	**0**	**2**	**59**	**39**	
6-Sep 1995	1	10.00	98.92	2.38	0	7	67	26	ML
	2	10.00	98.76	2.41	0	11	89*		ML
	3	10.10	98.66	2.40	0	13	87*		ML
	Average	**10.03**	**98.78**	**2.40**	**0**	**10**	**N.A.**	**N.A.**	
14-Sep 1995	1	10.79	99.30	2.47	0	38	62*		ML
	2	10.79	98.60	2.49	0	7	93*		ML
	3	10.79	98.60	2.50	0	5	95*		ML
	Average	**10.79**	**98.83**	**2.49**	**0**	**17**	**83***		

Note:

1. Available moisture (%) is defined as the ratio of the wt. of water to the total wt. of sample in per 100% means practically zero sediments.
2. I.S. - Insufficient sample for testing.
3. * - Insufficient sample for hydrometer test.
4. Numbers with * indicate the cumulative amount of silt and clay.

GRAIN SIZE ANALYSIS	SITE: Baldbid Bridge LOCATION: Sacobia River DATE SAMPLED: July 31, 1995 DATE TESTED: August 7, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

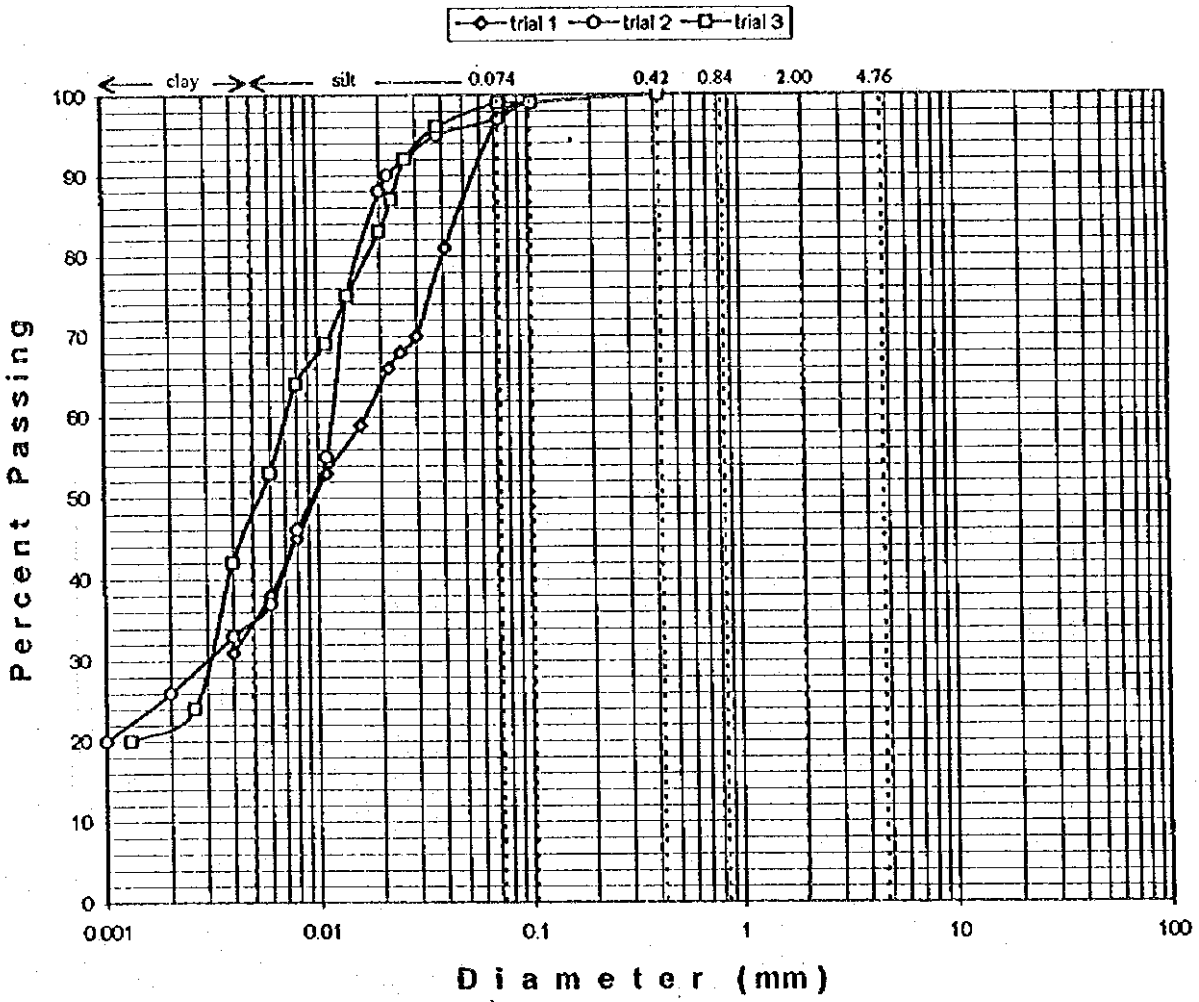


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	SILT with some clay particles
2			2					ML	*SILT, traces of fine sand.
3			3					ML	* - same -
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: BAIDBID BRIDGE LOCATION: Sacobia River DATE SAMPLED: August 28, 1995 DATE TESTED: August 31, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

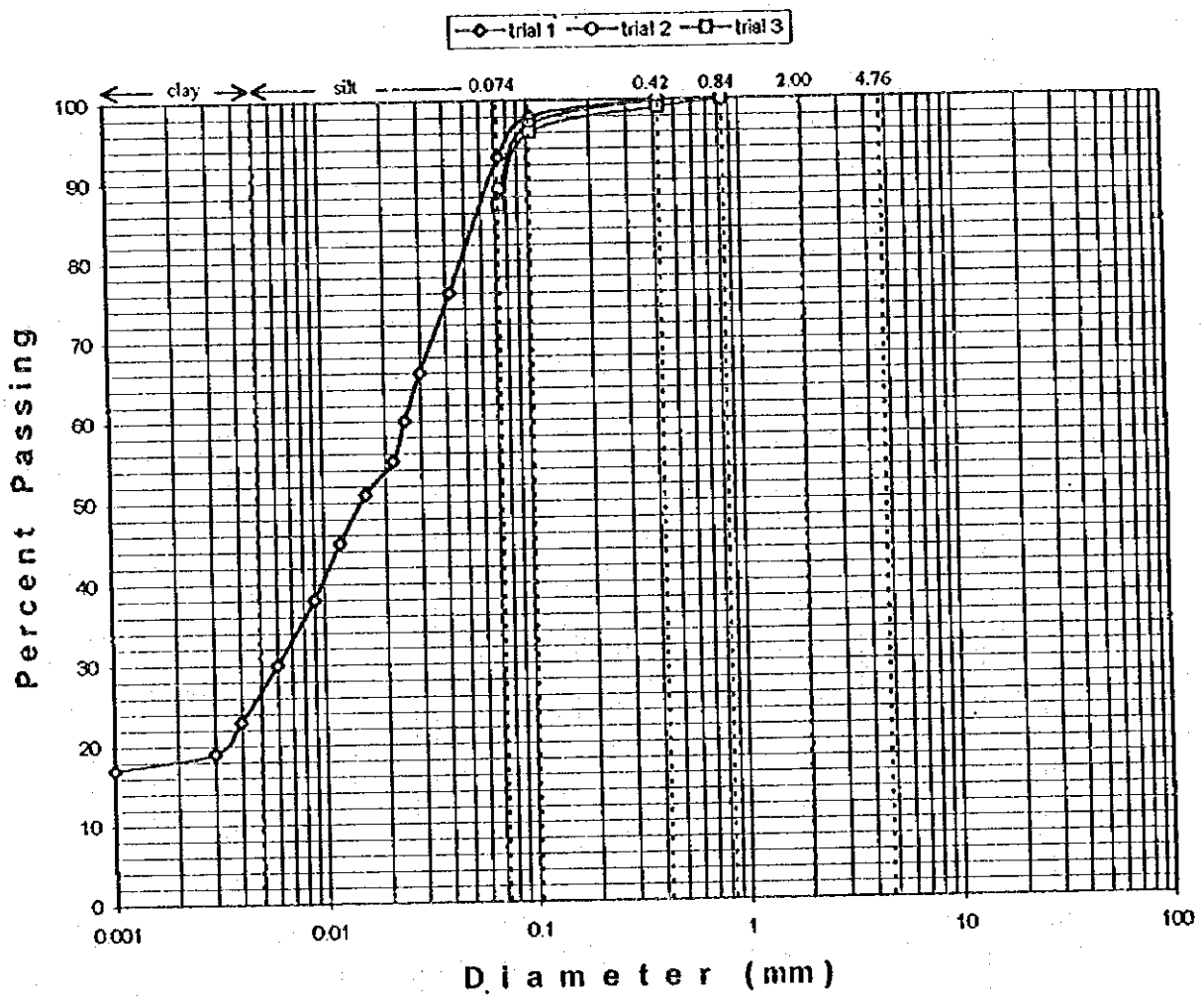


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	Clayey SILT
2			2					ML	Clayey SILT
3			3					ML	Clayey SILT

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: BAIDBID BRIDGE LOCATION: Sacobia River DATE SAMPLED: Sept. 6, 1995 DATE TESTED: Sept. 11, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

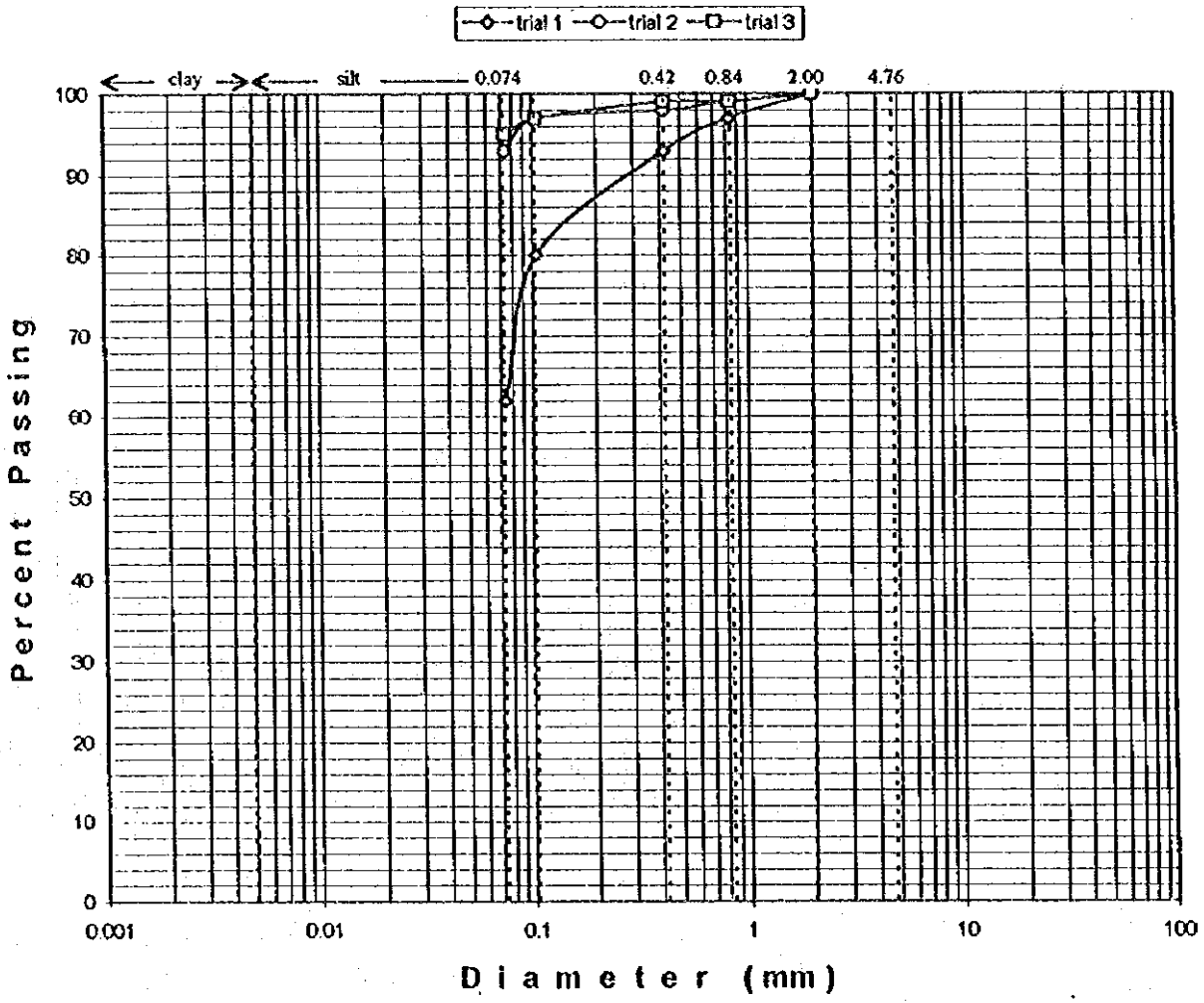


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	SILT, some clay
2			2					ML	*SILT, little amt. of sand
3			3					ML	*SILT, little amt. of sand
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: BAIDBID BRIDGE LOCATION: Sacobia River DATE SAMPLED: Sept. 14, 1995 DATE TESTED: Sept. 18, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*Sandy SILT
2			2					ML	*SILT, traces of fine sand
3			3					ML	*SILT, traces of fine sand
				* Description is based on mechanical sieve analysis only.					

FORM NO. 84-001A

SUMMARY OF LABORATORY TEST RESULTS --RCBC

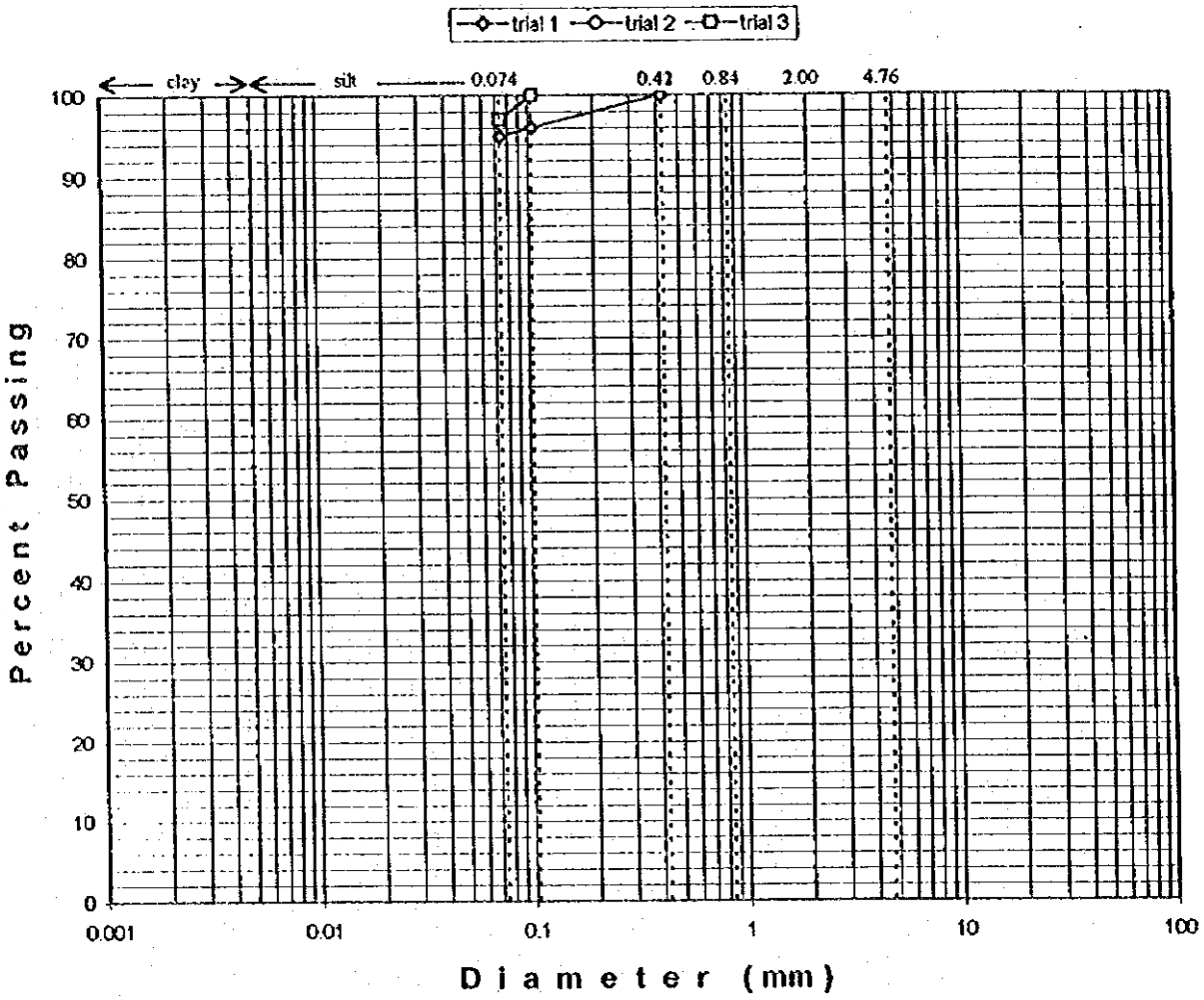
Date of Sampling	Trial No.	Unit Wt. (kN/m³)	Available Moist. %	Specific Gravity	Grain Size Distribution				Soil Class.
					% Gravel	% Sand	% Silt	% Clay	
31-Jul 1995	1	9.91	98.58	2.55	0	4	96*		ML
	2	10.00	98.31	2.55	0	3	97*		ML
	3	9.91	98.47	2.57	0	3	97*		ML
	Average	**9.94**	**98.45**	**2.56**	**0**	**3**	**97***		
28-Aug 1995	1	10.10	90.02	2.42	0	1	55	44	ML
	2	10.00	91.30	2.40	0	0	60	40	ML
	3	9.91	89.01	2.42	0	3	65	32	ML
	Average	**10.00**	**90.11**	**2.41**	**0**	**1**	**60**	**39**	
6-Sep 1995	1	9.91	98.21	2.50	0	10	67	23	ML
	2	9.91	98.86	2.51	0	7	93*		ML
	3	10.10	98.79	2.53	0	8	92*		ML
	Average	**9.97**	**98.62**	**2.51**	**0**	**8**	**N.A.**	**N.A.**	
14-Sep 1995	1	10.79	92.60	2.41	0	7	61	32	ML
	2	10.79	96.30	2.44	0	13	87*		ML
	3	11.77	96.40	2.42	0	15	85*		ML
	Average	**11.12**	**95.10**	**2.42**	**0**	**12**	**N.A.**	**N.A.**	

Note:

1. Available moisture (%) is defined as the ratio of the wt. of water to the total wt. of sample in per 100% means practically zero sediments.
2. I.S. - Insufficient sample for testing.
3. * - Insufficient sample for hydrometer test.
4. Numbers with * indicate the cumulative amount of silt and clay.

GRAIN SIZE ANALYSIS	SITE: RCBC Bridge LOCATION: Sacobia River DATE SAMPLED: July 31, 1995 DATE TESTED: August 7, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

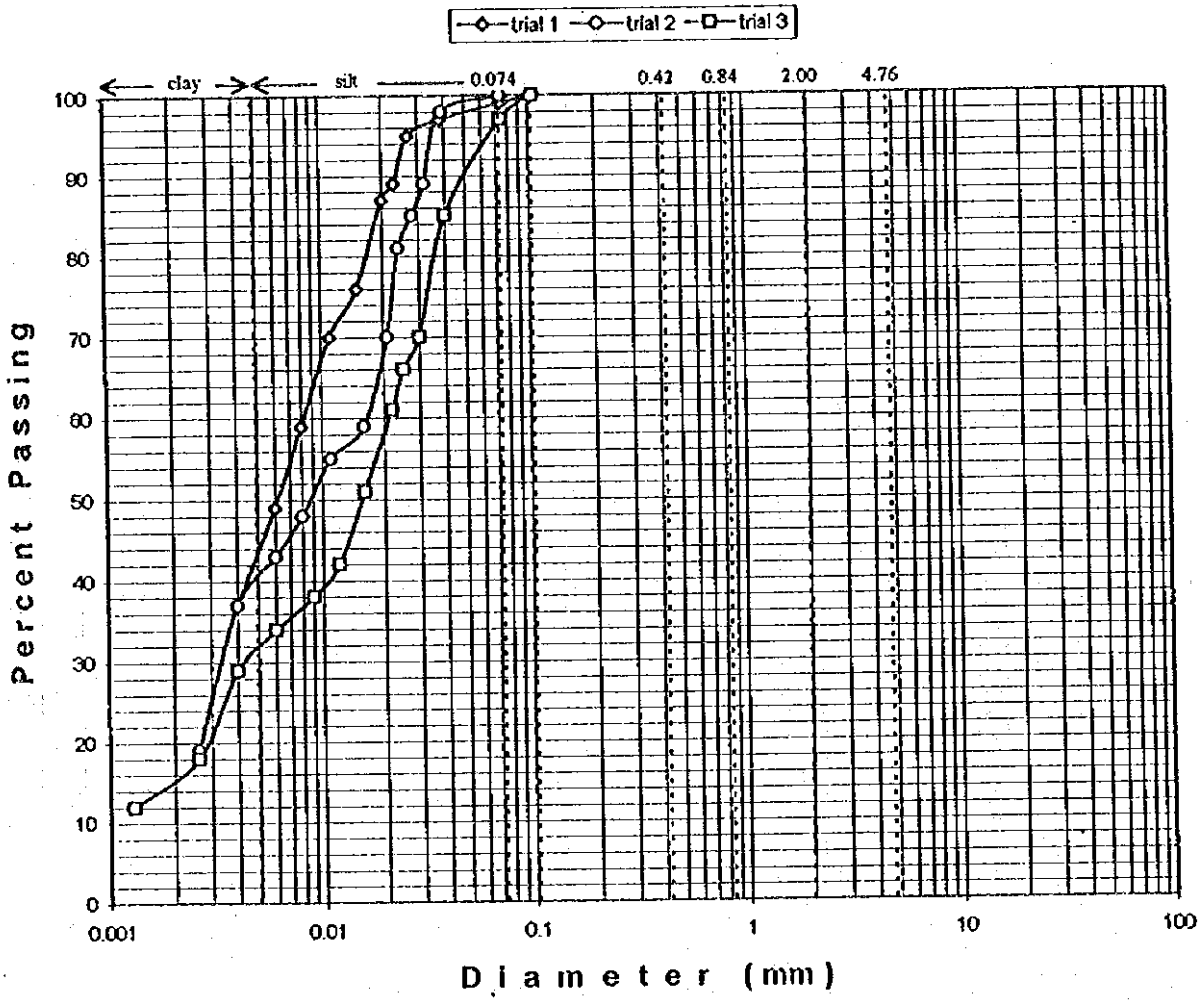


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*SILT, traces of fine sand.
2			2					ML	* - same -
3			3					ML	* - same -
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: RCBC BRIDGE LOCATION: Sacobia River DATE SAMPLED: August 28, 1995 DATE TESTED: August 31, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

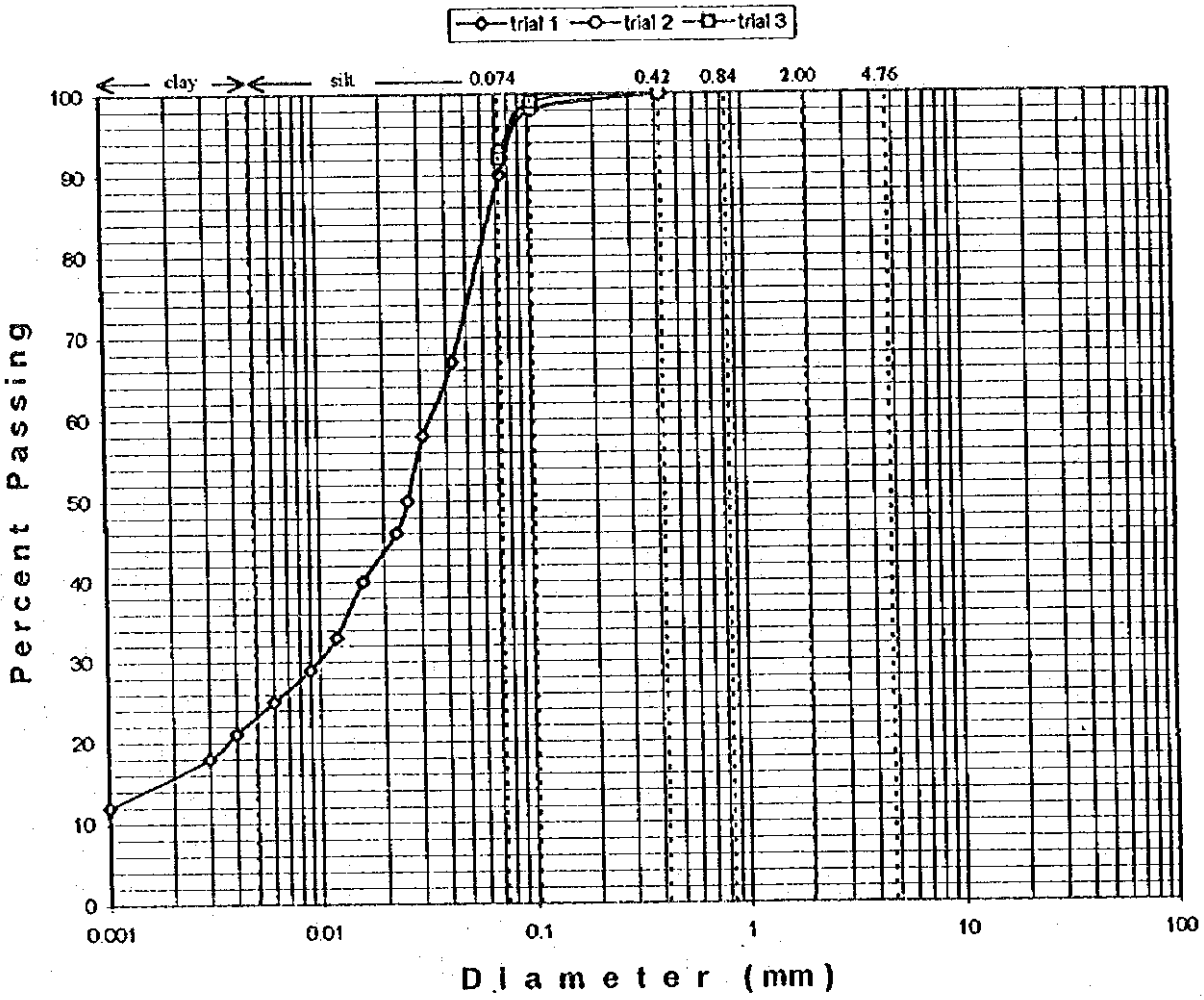


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	Clayey SILT
2			2					ML	Clayey SILT
3			3					ML	Clayey SILT

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: RCBC BRIDGE LOCATION: Sacobia River DATE SAMPLED: Sept. 6, 1995 DATE TESTED: Sept. 11, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

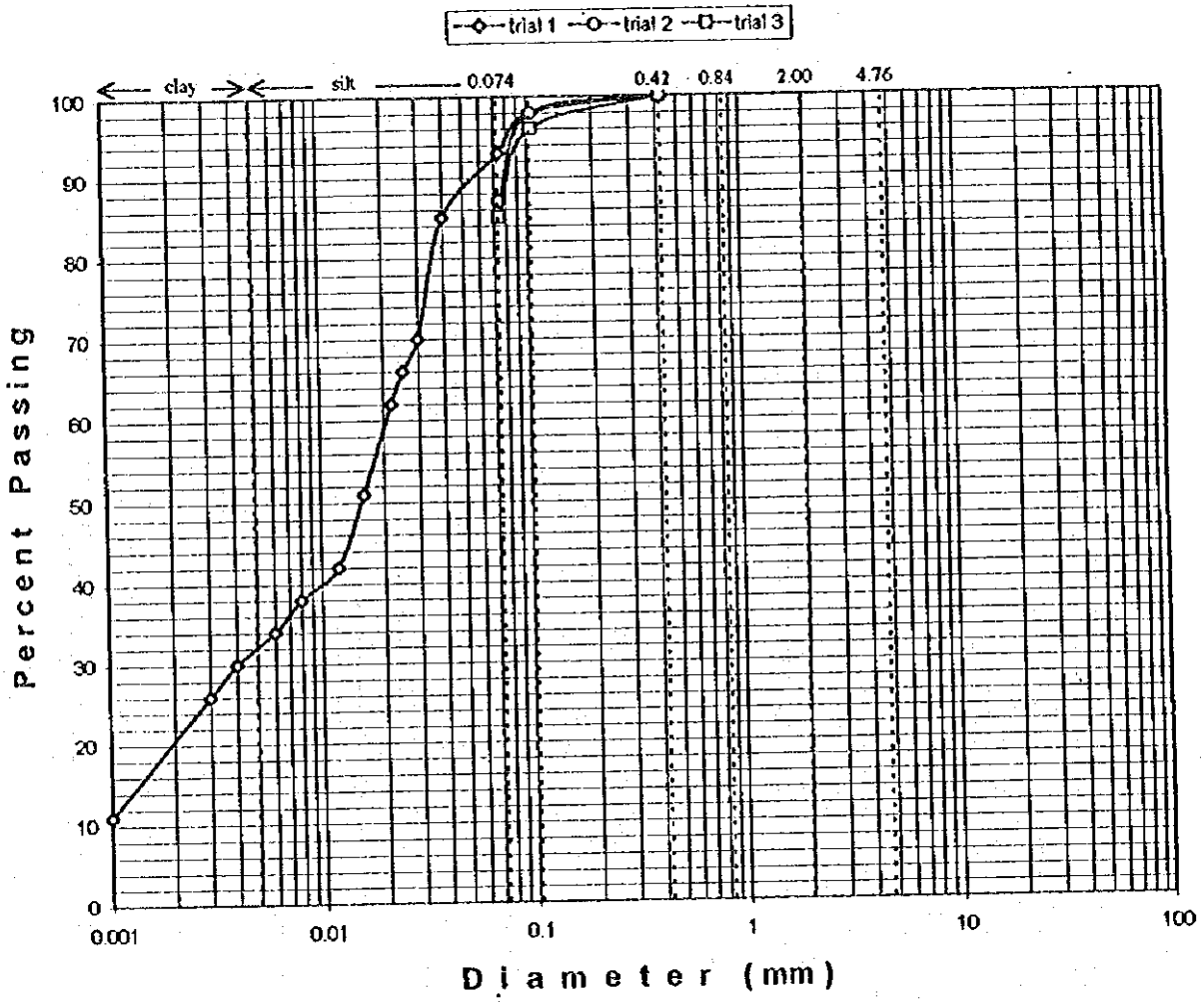


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	SILT with clay.
2			2					ML	*SILT, traces of fine sand
3			3					ML	*SILT, traces of fine sand
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: RCBC BRIDGE LOCATION: Sacobia River DATE SAMPLED: Sept. 14, 1995 DATE TESTED: Sept. 18, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	Clayey SILT
2			2					ML	*SILT, little amt. of fine sand
3			3					ML	*SILT, little amt. of fine sand
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

SUMMARY OF LABORATORY TEST RESULTS --SACOBIA R3

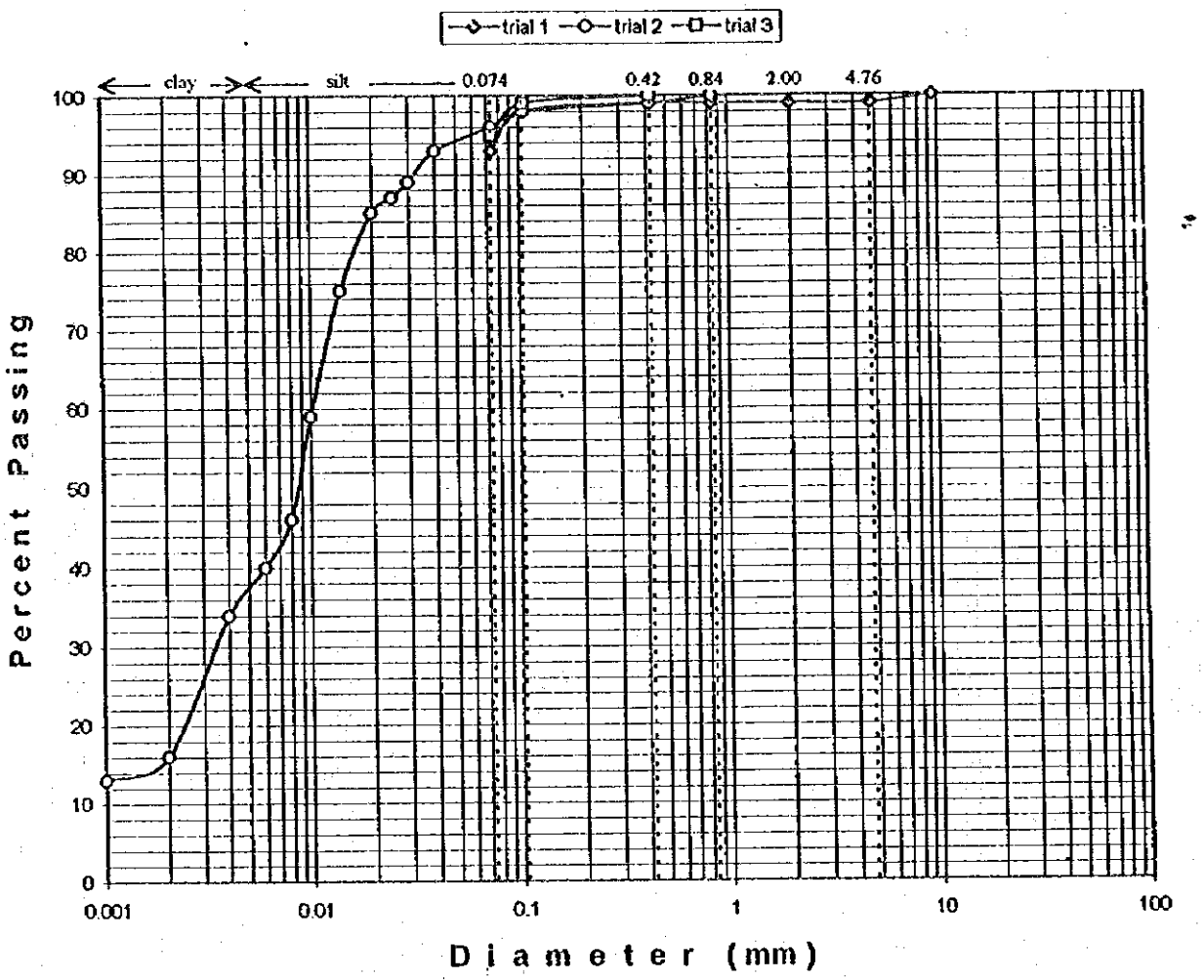
Date of Sampling	Trial No.	Unit Wt. (kN/m^3)	Available Moist. %	Specific Gravity	Grain Size Distribution				Soil Class.
					% Gravel	% Sand	% Silt	% Clay	
31-Jul 1995	1	10.20	91.18	2.41	1	6	93*		ML
	2	10.20	91.63	2.49	0	4	58	38	ML
	3	10.30	91.59	2.46	0	5	95*		ML
	Average	**10.23**	**91.47**	**2.45**	**0**	**5**	**N.A.**	**N.A.**	
28-Aug 1995	1	9.81	96.56	2.36	0	8	92*		ML
	2	9.81	97.02	2.40	0	4	62	34	ML
	3	9.81	97.03	2.38	0	6	94*		ML
	Average	**9.81**	**96.87**	**2.38**	**0**	**6**	**N.A.**	**N.A.**	
6-Sep 1995	1	9.81	98.46	2.49	0	31	49	20	ML
	2	9.91	98.42	2.47	0	21	80*		ML
	3	9.91	98.86	2.50	0	3	93*		ML
	Average	**9.88**	**98.58**	**2.49**	**0**	**18**	**N.A.**	**N.A.**	
14-Sep 1995	1	9.81	100.00	I.S	0	60	40*		SM
	2	10.79	99.70	I.S	0	21	79*		ML
	3	9.81	99.70	I.S	0	13	87*		ML
	Average	**10.14**	**99.80**		**0**	**31**	**69***		

Note:

1. Available moisture (%) is defined as the ratio of the wt. of water to the total wt. of sample in per 100% means practically zero sediments.
2. I.S. - Insufficient sample for testing.
3. * - Insufficient sample for hydrometer test.
4. Numbers with * indicate the cumulative amount of silt and clay.

GRAIN SIZE ANALYSIS	SITE: SACOBIA R3 LOCATION: Sacobia River DATE SAMPLED: July 31, 1995 DATE TESTED: August 7, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

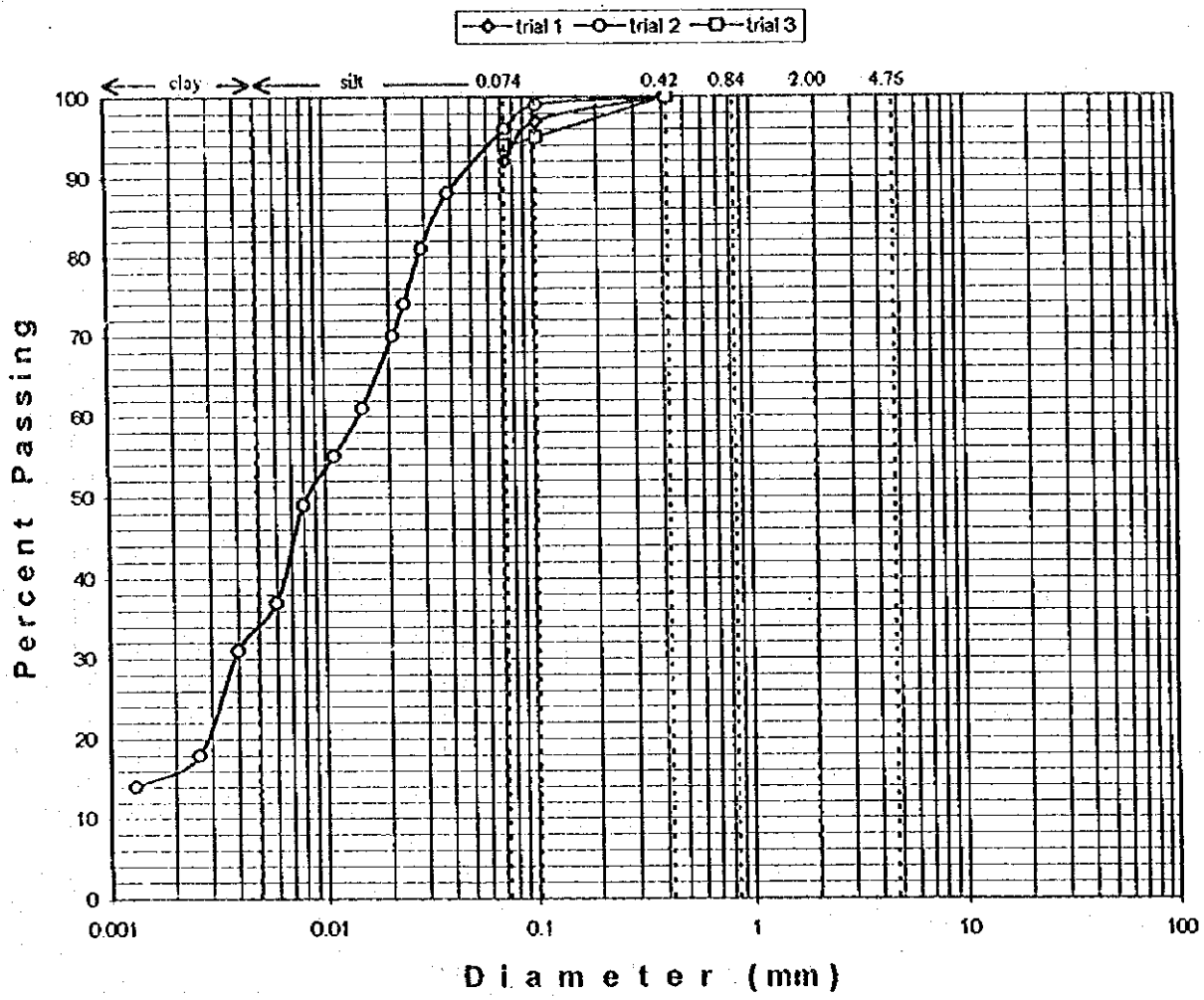


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*SILT, traces of fine sand.
2			2					ML	Clayey SILT, traces of sand.
3			3					ML	*SILT, traces of fine sand.
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: SACOBIA LOCATION: Sacobia River DATE SAMPLED: August 28, 1995 DATE TESTED: August 31, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

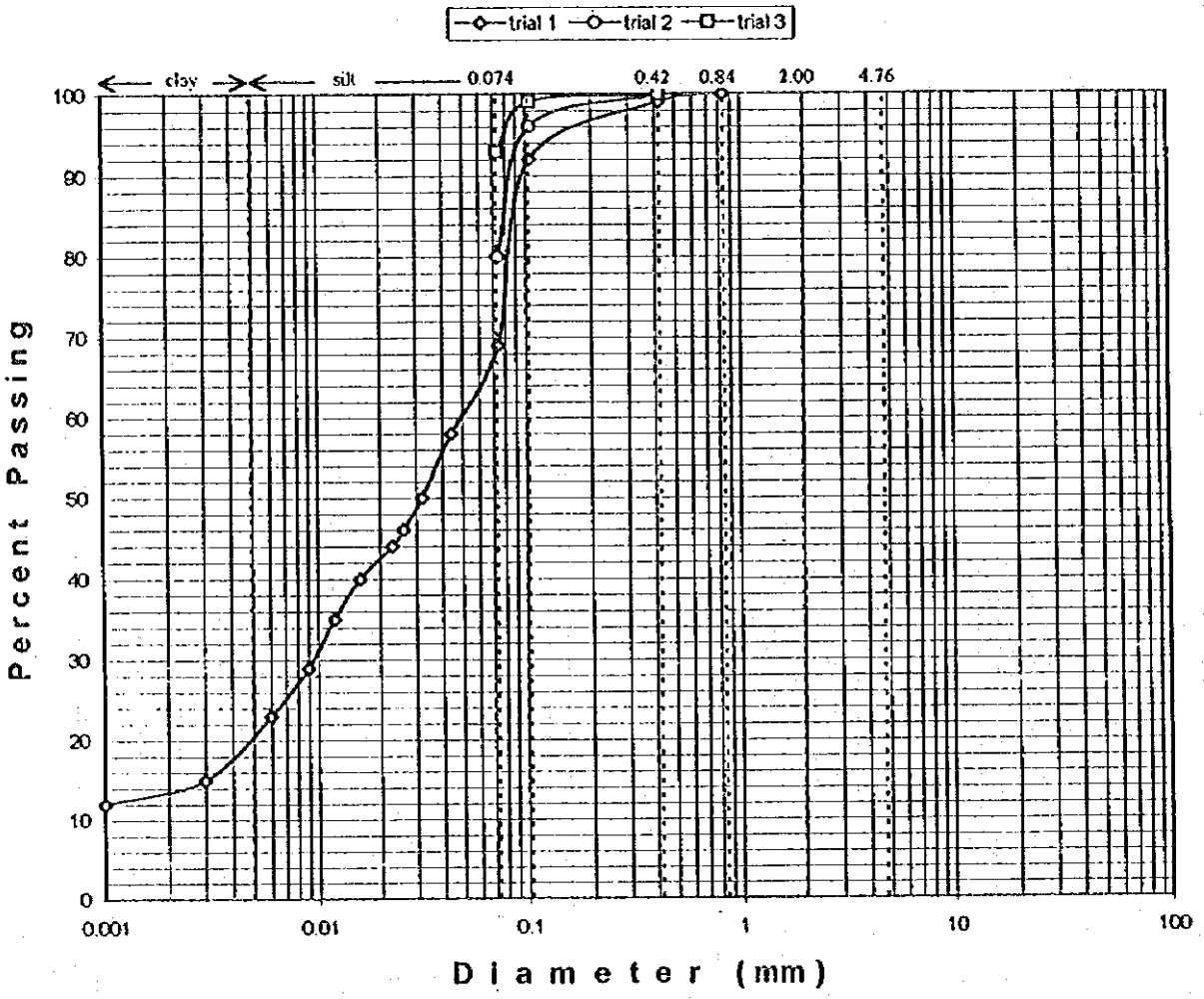


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*SILT, traces of sand
			2					ML	Clayey SILT
2			3					ML	*SILT, traces of sand.
3									
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: SACOBIA R3 LOCATION: Sacobia River DATE SAMPLED: Sept. 6, 1995 DATE TESTED: Sept. 11, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

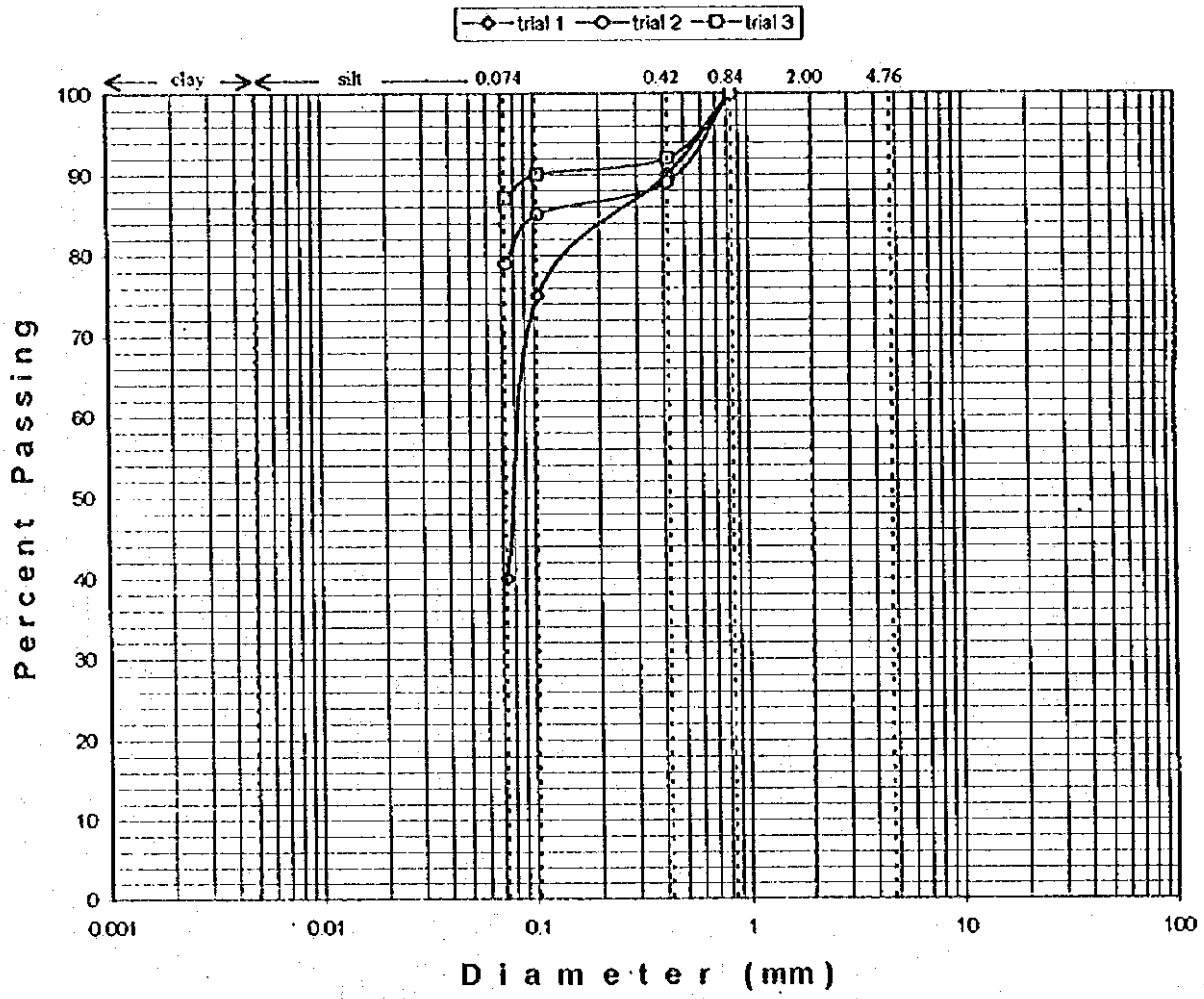


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	Sandy SILT, some clay
2			2					ML	*SILT, some fine sand
3			3					ML	*SILT, traces of fine sand
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: SACOBIA BRIDGE LOCATION: Sacobia River DATE SAMPLED: Sept. 14, 1995 DATE TESTED: Sept. 18, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					SM	*Silty SAND
2			2					ML	*SILT, some fine sand
3			3					ML	*SILT, little amt. of fine sand
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

III.3 BAMBAN RIVER

SUMMARY OF LABORATORY TEST RESULTS --SAN FRANCISCO BRIDGE

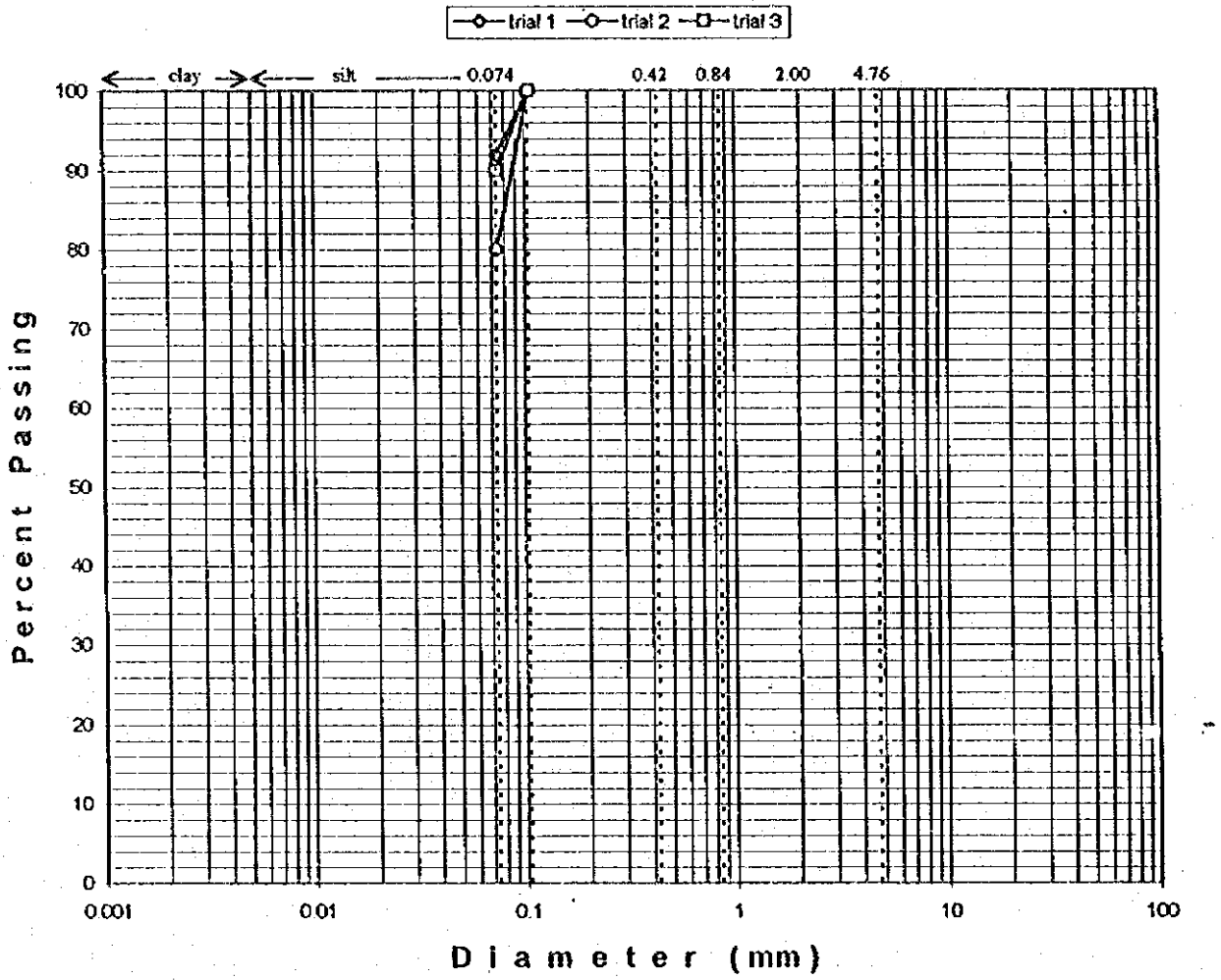
Date of Sampling	Trial No.	Unit Wt. (kN/m^3)	Available Moist. %	Specific Gravity	Grain Size Distribution				Soil Class.
					% Gravel	% Sand	% Silt	% Clay	
31-Jul 1995	1	9.81	99.70	I.S	0	8	92*		ML
	2	9.91	99.72	I.S	0	20	80*		ML
	3	9.81	99.72	I.S	0	10	90*		ML
	Average	**9.84**	**99.71**	**N.A.**	**0**	**13**	**87***		
28-Aug 1995	1	9.81	99.50	I.S	0	11	89*		ML
	2	9.91	99.46	I.S	0	10	90*		ML
	3	10.00	99.40	I.S	0	7	93*		ML
	Average	**9.91**	**99.45**		**0**	**9**	**81***		
6-Sep 1995	1	9.91	99.52	I.S	0	40	60*		ML
	2	9.81	99.55	I.S	0	28	72*		ML
	3	9.81	99.11	2.45	0	55	45*		SM
	Average	**9.84**	**99.39**	**N.A.**	**0**	**41**	**59***		
14-Sep 1995	1	10.79	99.50	I.S	0	22	78*		ML
	2	10.79	99.80	I.S	0	15	85*		ML
	3	11.77	99.80	I.S	0	11	89*		ML
	Average	**11.12**	**99.70**		**0**	**16**	**84***		

Note:

1. Available moisture (%) is defined as the ratio of the wt. of water to the total wt. of sample in per 100% means practically zero sediments.
2. I.S. - Insufficient sample for testing.
3. * - Insufficient sample for hydrometer test.
4. Numbers with * indicate the cumulative amount of silt and clay.

GRAIN SIZE ANALYSIS	SITE: SAN FRANCISCO BRIDGE LOCATION: Bamban River DATE SAMPLED: July 31, 1995 DATE TESTED: August 7, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

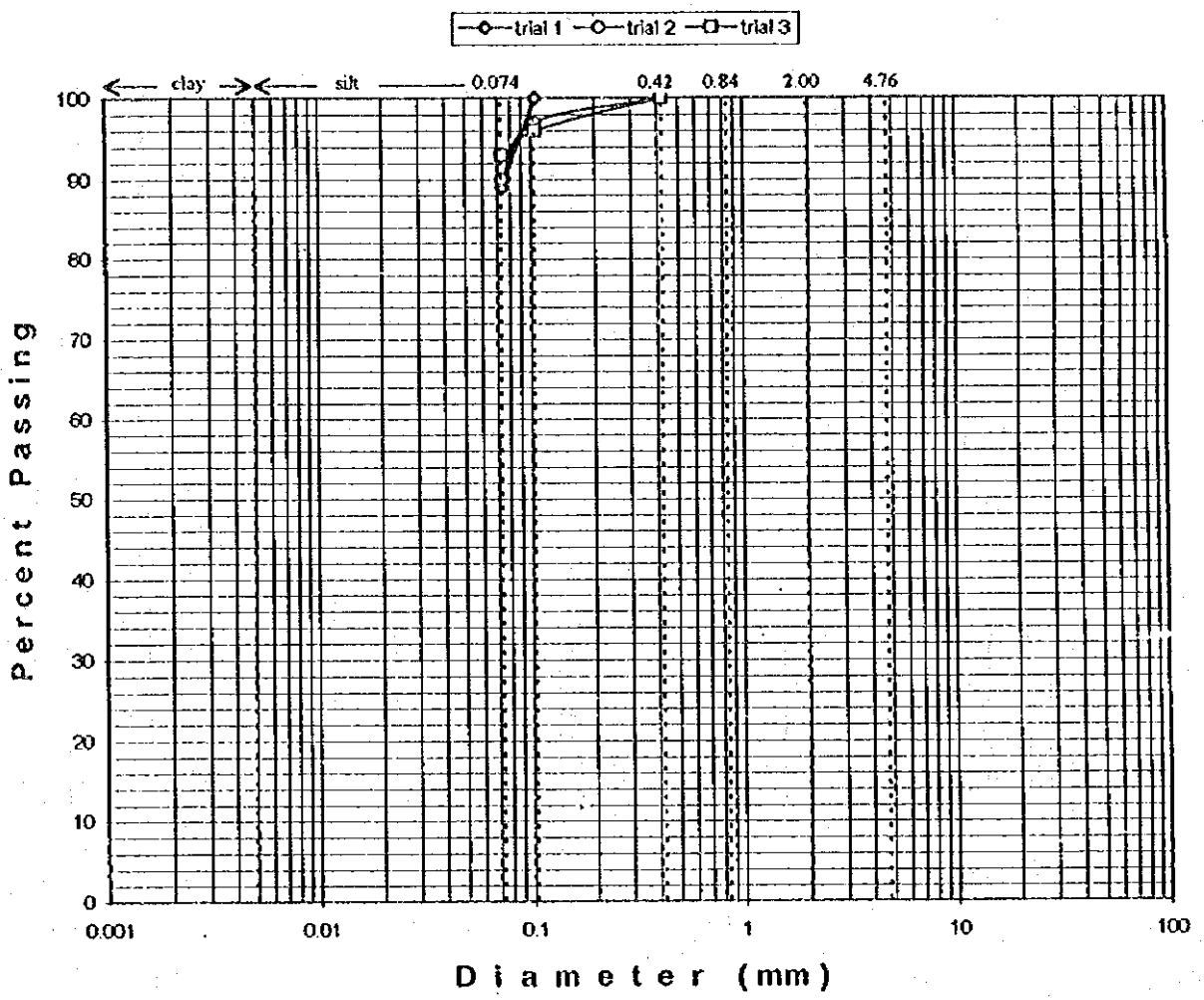


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*SILT, traces of fine sand.
2			2					ML	*SILT, little amount of sand.
3			3					ML	*SILT, traces of sand.
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: SAN FRANCISCO BRIDGE LOCATION: Bamban River DATE SAMPLED: August 28, 1995 DATE TESTED: August 31, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

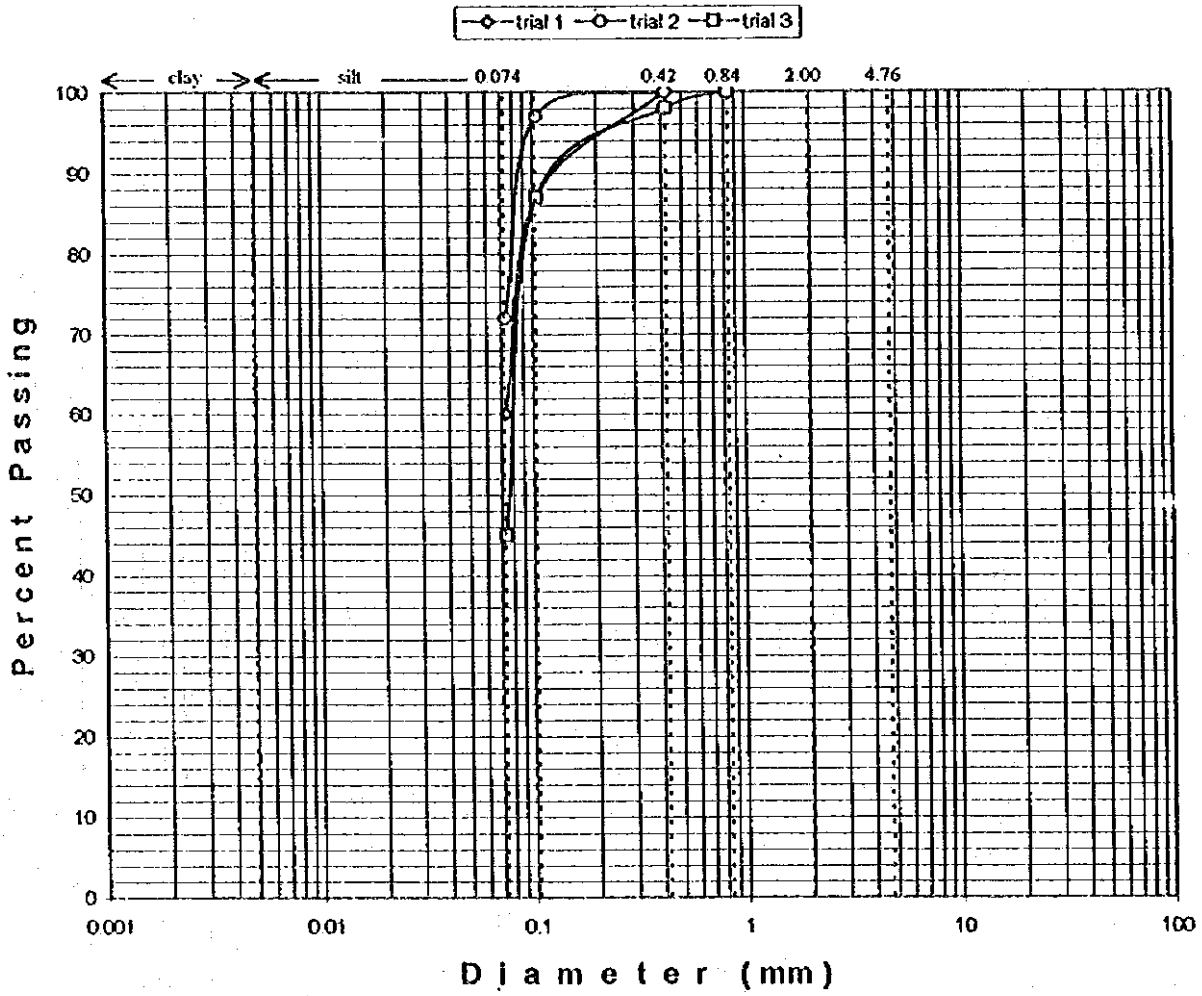


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*SILT, little amt. of fine sand
2			2					ML	*SILT, traces of fine sand
3			3					ML	*SILT, traces of fine sand
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: SAN FRANCISCO BRIDGE LOCATION: Bamban River DATE SAMPLED: Sept. 6, 1995 DATE TESTED: Sept. 11, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

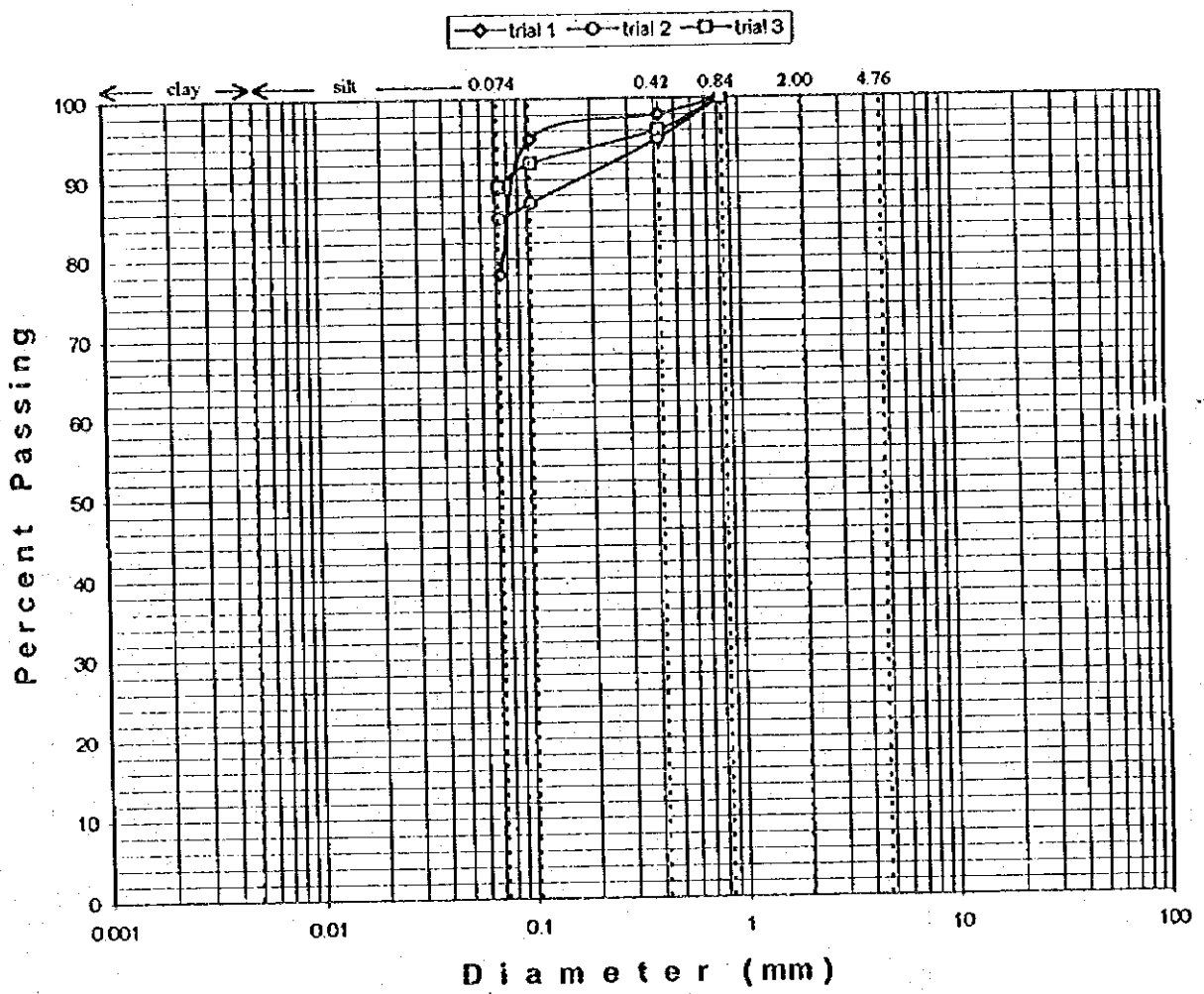


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*Sandy SILT
2			2					ML	*Sandy SILT
3			3					SM	*Silty SAND
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: SAN FRANCISCO BRIDGE LOCATION: Bamban River DATE SAMPLED: Sept. 14, 1995 DATE TESTED: Sept. 18, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*SILT, some fine sand
2			2					ML	*SILT, little amt. of fine sand
3			3					ML	*SILT, traces of fine sand
				* Description is based on mechanical sieve analysis only.					

FORM NO. 84-001A

SUMMARY OF LABORATORY TEST RESULTS --MARIMLA BRIDGE

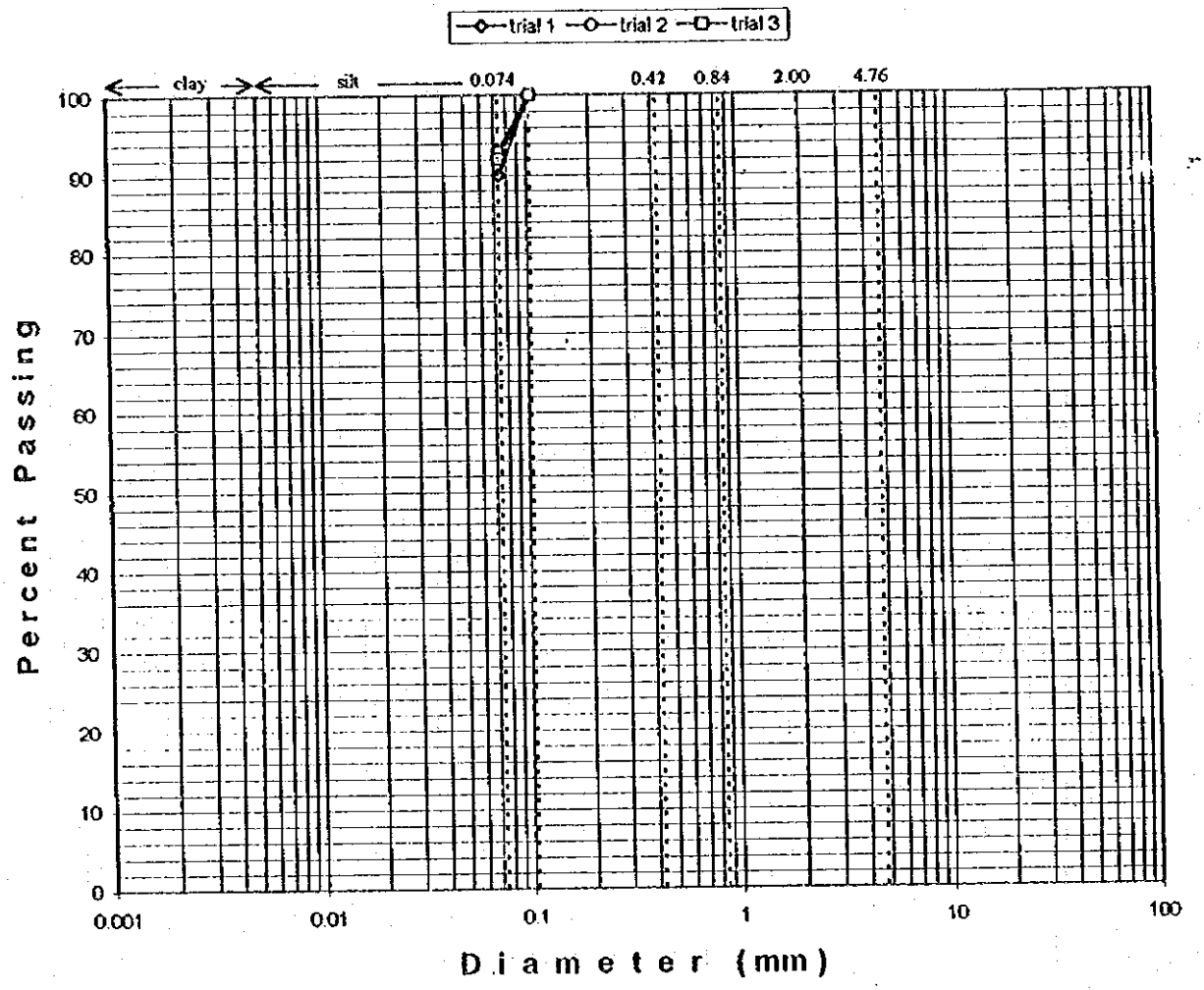
Date of Sampling	Trial No.	Unit Wt. (kN/m^3)	Available Moist. %	Specific Gravity	Grain Size Distribution				Soil Class.
					% Gravel	% Sand	% Silt	% Clay	
31-Jul 1995	1	10.30	99.82	I.S	0	10	90*		ML
	2	10.20	99.81	I.S	0	7	93*		ML
	3	10.10	99.84	I.S	0	8	92*		ML
	Average	**10.20**	**99.82**		**0**	**8**	**92***		
28-Aug 1995	1	9.81	99.77	I.S	0	9	91*		ML
	2	9.81	99.77	I.S	0	12	88*		ML
	3	9.81	99.86	I.S	0	2	98*		ML
	Average	**9.81**	**99.80**		**0**	**8**	**92***		
6-Sep 1995	1	9.91	99.76	I.S	0	28	72*		ML
	2	9.81	99.70	I.S	0	53	47*		SM
	3	9.91	99.74	I.S	0	17	83*		ML
	Average	**9.88**	**99.73**		**0**	**33**	**67***		
14-Sep 1995	1	9.81	99.90	I.S	0	56	44*		SM
	2	11.77	100.00	I.S	0	41	59*		ML
	3	10.79	99.90	I.S	0	39	61*		ML
	Average	**10.79**	**99.93**		**0**	**45**	**55***		

Note:

1. Available moisture (%) is defined as the ratio of the wt. of water to the total wt. of sample in per 100% means practically zero sediments.
2. I.S. - Insufficient sample for testing.
3. * - Insufficient sample for hydrometer test.
4. Numbers with * indicate the cumulative amount of silt and clay.

GRAIN SIZE ANALYSIS	SITE: BAMBAN BRIDGE R3 LOCATION: Bamban River DATE SAMPLED: July 31, 1995 DATE TESTED: August 7, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

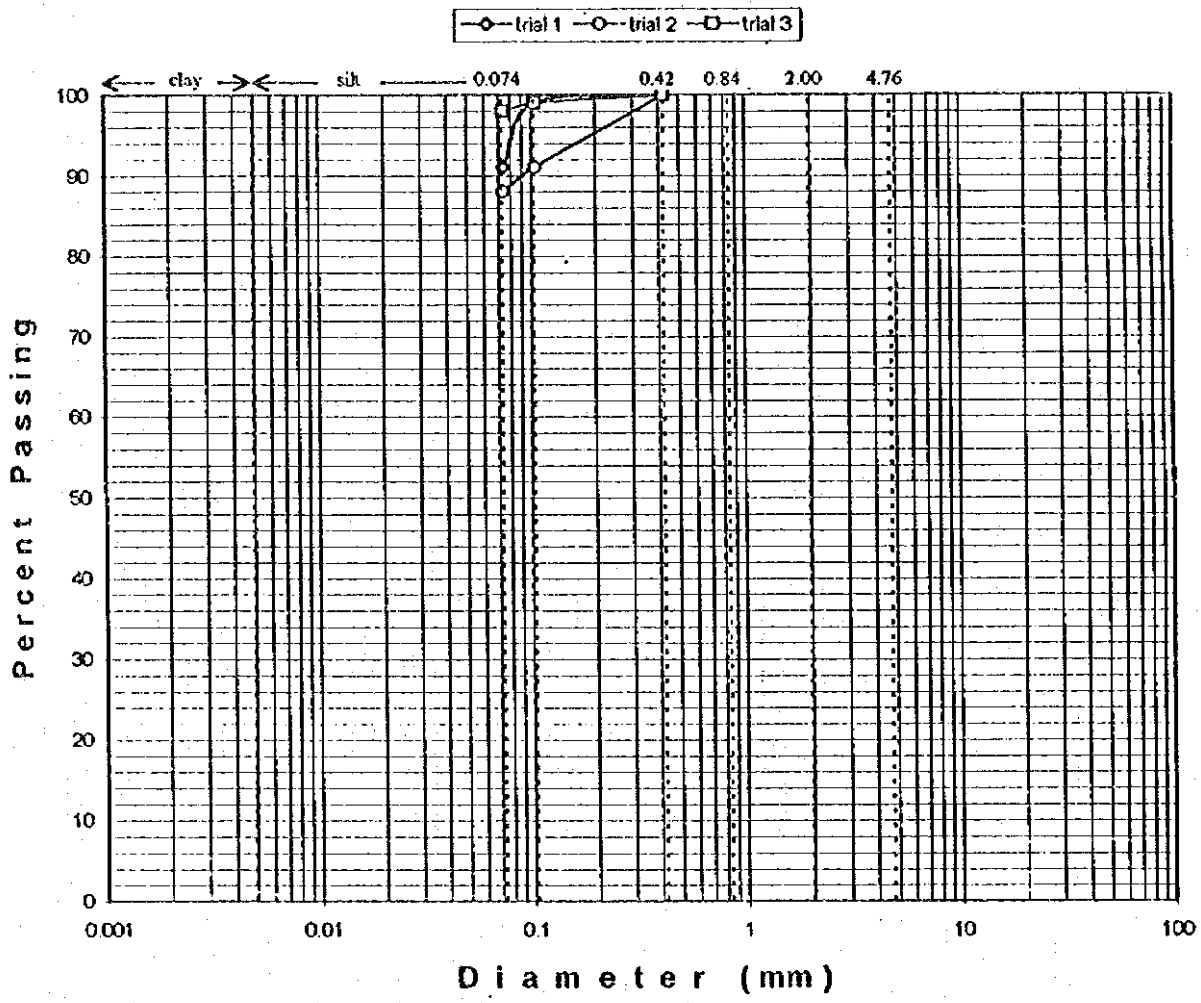


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*SILT, traces of fine sand.
2			2					ML	* - same -
3			3					ML	* - same -
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: MARIMLA LOCATION: Bamban River DATE SAMPLED: August 28, 1995 DATE TESTED: August 31, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

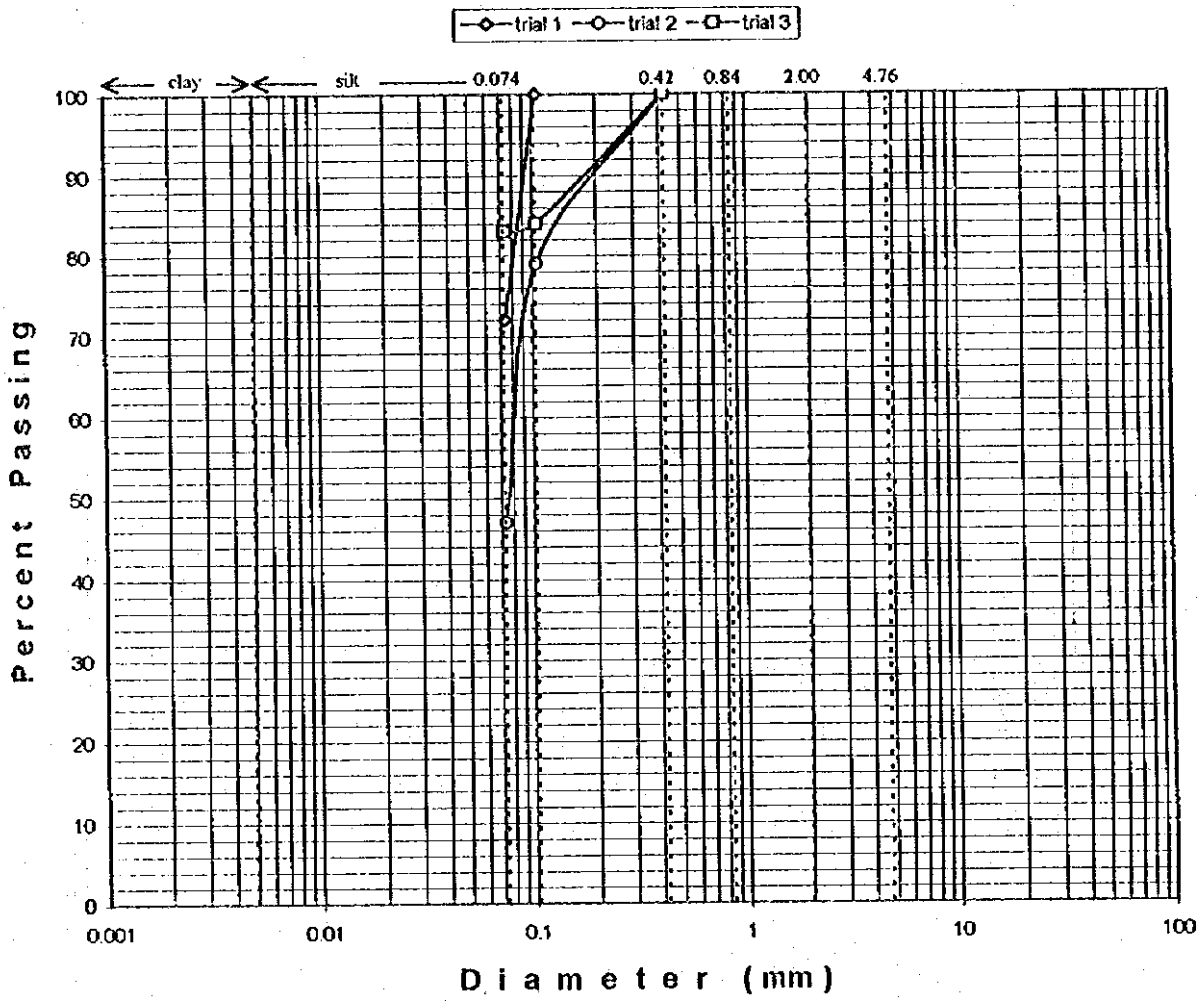


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*SILT, traces of fine sand
2			2					ML	*SILT, little amt. of fine sand
3			3					ML	*SILT, traces of fine sand
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: MARIMLA BRIDGE LOCATION: Bamban River DATE SAMPLED: Sept. 6, 1995 DATE TESTED: Sept. 11, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE

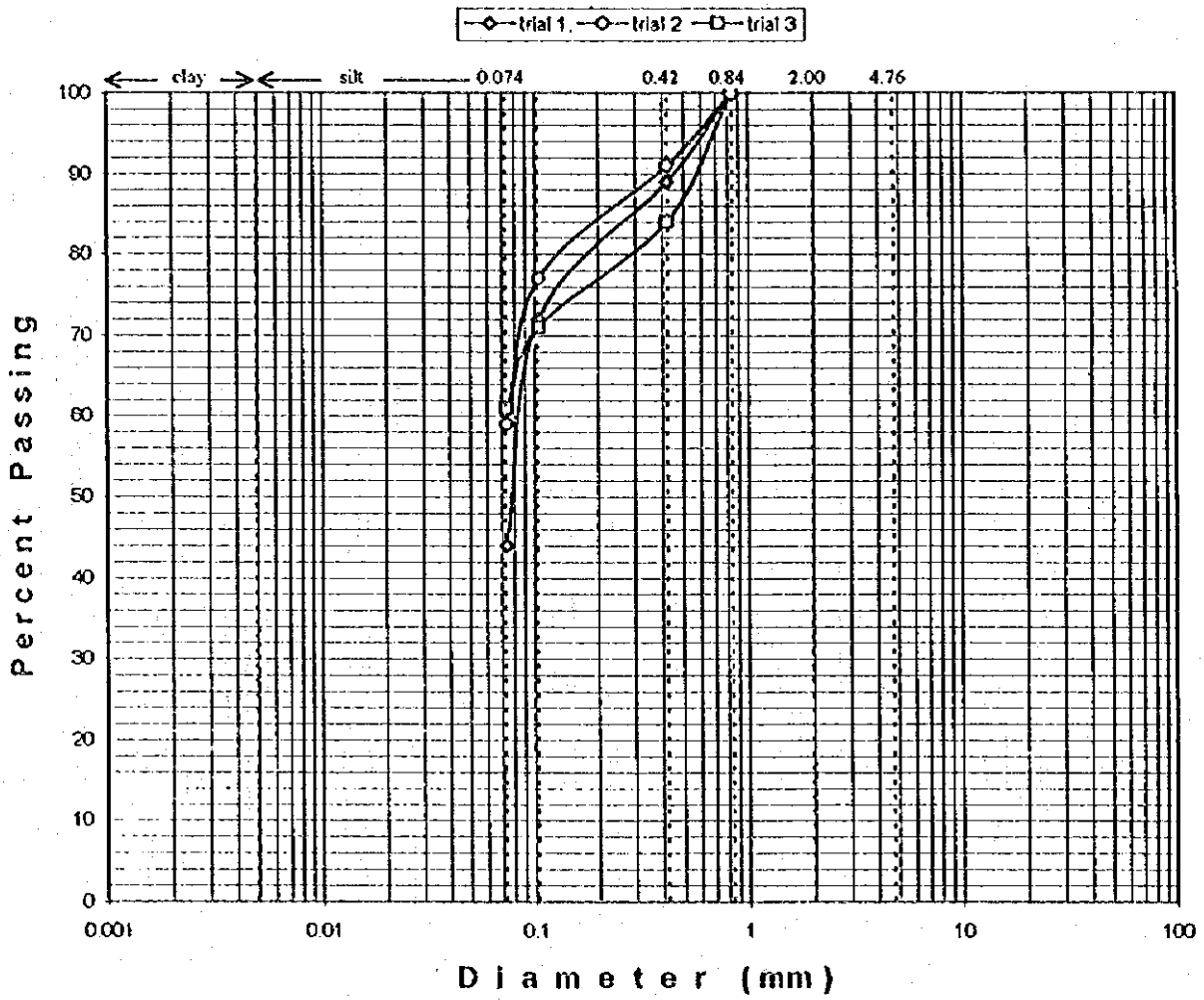


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					ML	*Sandy SILT
2			2					SM	*Silty SAND
3			3					ML	*SILT, little amt. of sand
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A

GRAIN SIZE ANALYSIS	SITE: MARIMLA BRIDGE LOCATION: Bamban River DATE SAMPLED: Sept. 14, 1995 DATE TESTED: Sept. 18, 1995 SHEET NO. 1 of 1
PROJECT : SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT	

GRAIN SIZE ANALYSIS CURVE



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	LL	PL	PI	USCS	DESCRIPTION
1			1					SM	*Silty SAND
2			2					ML	*Sandy SILT
3			3					ML	*Sandy SILT
				* Description is based on mechanical sieve analysis only.					

FORM NO. 94-001A