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

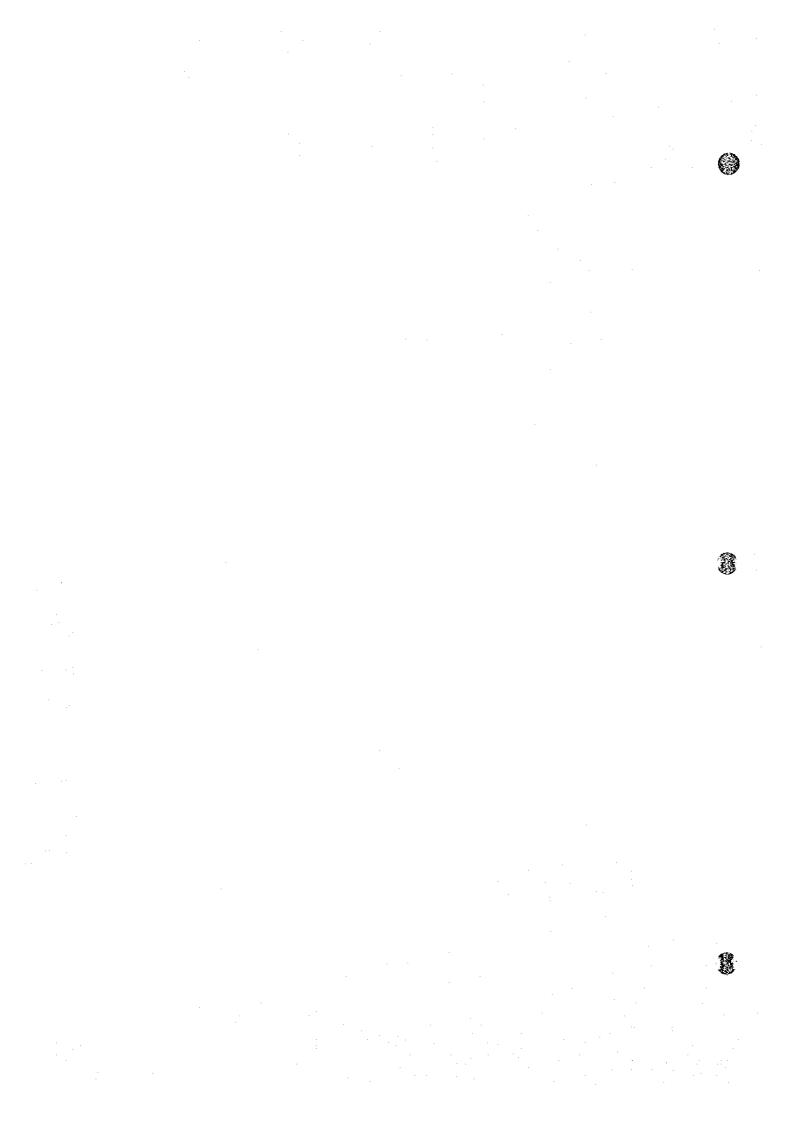
All testing procedures generally conform to the American Society for Testing Materials (ASTM). The Unified Soil Classification System (USCS) was used in the classification of the samples. However, because of the little fines on most of the samples collected, only a handful of hydrometer tests were completed.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

ASTM DESIGNATION	TITLE/DESCRIPTION
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

	Ommark.		Available	Specific		Grain Size	Distribution	1	Soil
Date of	Trial	Unit Wt.	t l			% Sand	% Silt	% Clay	Class.
Sampling	No.	(kN/m^3)	Moist. %	Gravity	% Gravel			70 Clay	ML
	1	10.77	83,26	2.49	0	40	60*	******	
8-Aug	2	10,59	83.18	2.52	0	19	81*		ML
1995	3	10.39	82.60	2.50	0	7	93*		ML
	Average	10.58	83.01	2.50	0	22	78*		
	1	9.95	99.63	LS	0	20	80*		ML
28-Aug	2	10.03	99.75	1.8	0	30	69*		ML
1995	3	9.93	99.73	1.8	0	42	58*		ML
	Average	9.97	99.70		0	31	69*		
}	1	9.81	99.93	1.8	0	53	47*		SM
6-Sep	2	10.00	99.97	1.8	0	35	65*		ML
1995	3	10.00	99.93	I.S	0	31	69*		ML
'''	Average		99.94		0	40	60*		
	1	10.79	99.10	2.50	0	1	99*		ML
14-Sep	2	10.79	98.70	2.49	0	3	97*	1	ML
1995	3	10.79	98.70	2.47	0	2	98*		ML
	Average	10.79	98.83	2.49	0	2	98*		
	1	10.30	96.42	2.55	0	7	93*		ML
1-Oct	2	10.40	96.52	2.50	0	1	36	63	CL-ML
1995	3	10.49	95.08	2.52	0	2	98*	<u> </u>	ML
'''	Average		96.01	2.52	0	3	N.A.	N.A.	<u></u>

.

- 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. 1.S. Insufficient sample for testing.
- 3. * Insufficient sample for hydrometer test.
- 4. Numbers with * indicate the cumulative amount of silt and clay.



PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

SITE: FRIENDSHIP

LOCATION: Abacan River

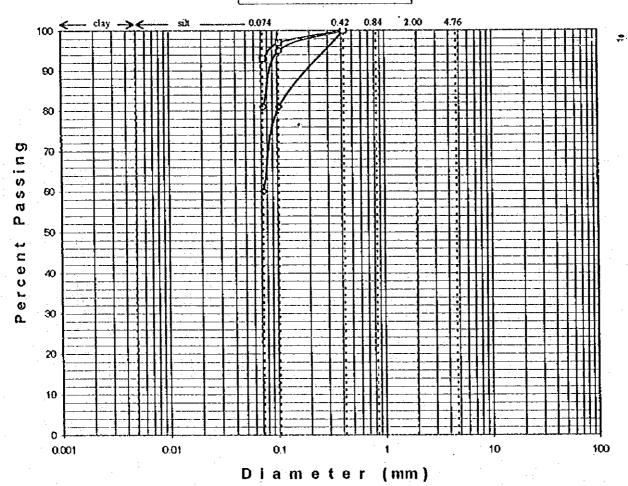
DATE SAMPLED: August 8, 1995

DATE TESTED: August 11, 1995

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE

-0-trial 1 -0-trial 2 -0-trial 3



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

FORM NO. 94001A



PROJECT: SEDIMENTS SAMPLING FOR

0

FORM NO. 94001A

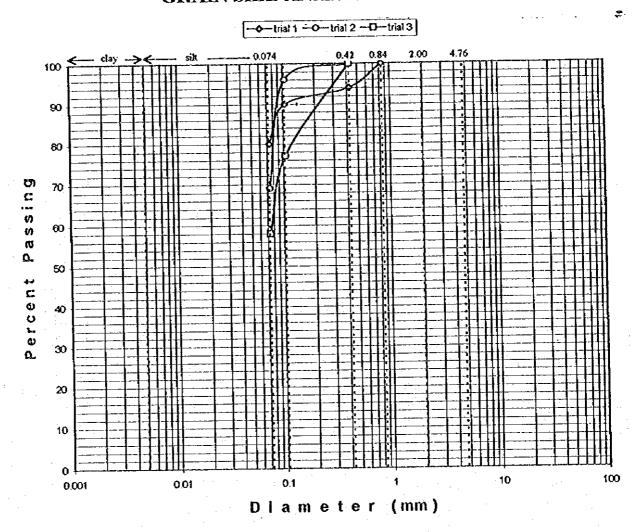
THE MT. PINATUBO PROJECT

SITE: FRIENDSHIP BRIDGE LOCATION: Abacan River

DATE SAMPLED: August 28, 1995 DATE TESTED: August 31, 1995

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE



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

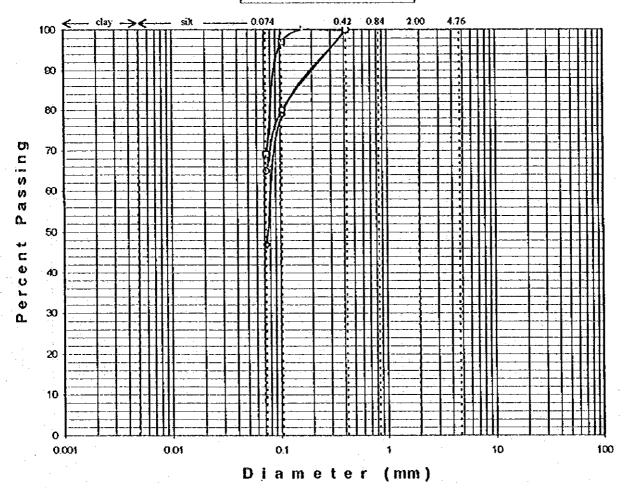
III - 5



PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT SITE: FRIENDSHIP BRIDGE LOCATION: Abacan River DATE SAMPLED: Sept. 6, 1995 DATE TESTED: Sept. 11, 1995

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	t t	PŁ	Pl	USCS	DESCRIPTION
1			1					SM	*Silty SAND
2			2				<u> </u>	ML	*Sandy SILT
3			3			:		ML	*Sandy SILT
						· · · · · · · · · · · · · · · · · · ·			
					<u></u>	<u>L.,,,,</u>	<u> </u>	<u> </u>	<u> </u>
		- -		* [Descript I	tion is b	ased o	n mech	anical sieve analysis only
FORMNO	24.624								



PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

0

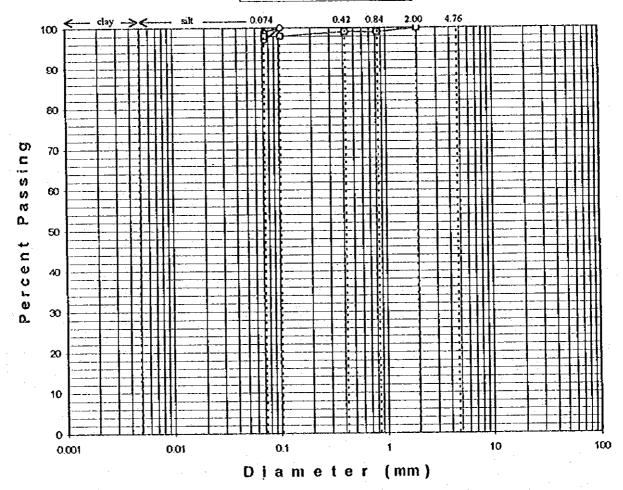
SITE: FRIENDSHIP BRIDGE LOCATION: Abacan River

DATE SAMPLED: Sept. 14, 1995 DATE TESTED: Sept. 18, 1995

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE

-- trial 1 -- O-- trial 2 -- D-- trial 3



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	u	PŁ	PI	USCS	DESCRIPTION
1		<u>, </u>	1					ML	*SILT, traces of fine sand
2			2					ML	*SILT, traces of fine sand
3			3					ML	*SILT, traces of fine sand
* * 								<u> </u>	
					Doscrint	log is t	L	n mech	anical sieve analysis only
					l	1011 13	3300 0	1	1

III - 7



PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

SITE: FRIENDSHIP BRIDGE LOCATION: Abaçan River

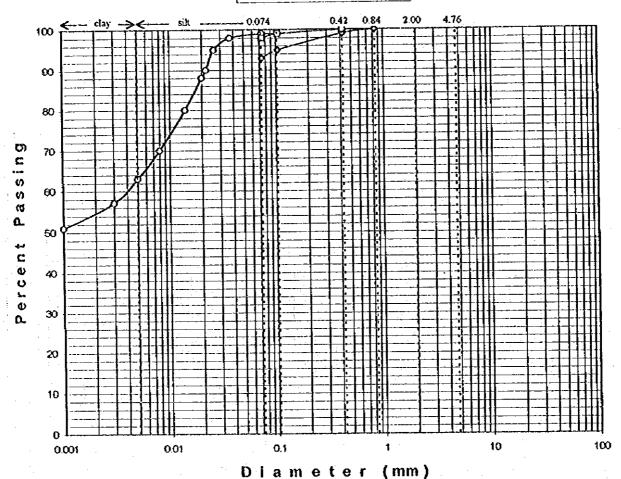
DATE SAMPLED: October 1, 1995 DATE TESTED: October 5, 1995

SHEET NO. 1 of 1



GRAIN SIZE ANALYSIS CURVE

-0-trial 1 -0-trial 2 -0-trial 3



IRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	il	Pl	PI	USCS	DESCRIPTION
1	ĺ		1					ML	*SILT, traces of fine sand
2			2					CL-ML	Silty CLAY, traces of sand
3			3					ML	*SiLT, traces of fine sand
						ļ	, <u>-</u>	<u> </u>	
					L	<u> </u>			nainal alawa agalwala agil
			<u> </u>		Jescrip I	ion is u	laseo c	n mech	anical sieve analysis only

FORM NO. 94-001A



SUMMARY OF LABORATORY TEST RESULTS -- CAPAYA BRIDGE

	001,11,1								
Date of	Trial	Unit Wt.	Available	Specific		Grain Size			Soil
Sampling	No.	(kN/m^3)	Moist. %	Gravity	% Gravel	% Sand	% Silt	% Clay	Class
JULI P. 1. 3	1	9.81	99.91	I,S	0	3	67	30	ML
31-Jul	2	9.91	99.88	I.S	0	1	99*		ML
1995	3	9.91	99,44	I.S	0	2	98*		ML
1773	Average	9.88	99.74		0	2	N.A.		
	1	9,99	99.62	I.S	0	8	92*		ML
28-Aug	2	9.84	99.67	I.S	0	9	90*	. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ML
1995	3	10,03	99.72	1.S	0	8	88*		ML
1775	Average	9.95	99,67		0	8	92*		
	1	10.00	99.89	I.S	0	52	48*		SM-ML
6-Sep	2	9.91	99.74	1.8	0	38	62*]	ML
1995	3	10.00	99,86	I.S	0	42	58*		ML
1	Average		99.83	 	0	44	56*		
	1	9.81	99.70	1.S	0	45	55*		ML
14-Sep	2	9.81	99.90	1.5	0	40	60*		ML
1995	3	11.77	99.70	1.8	0	17	83*		ML
1	Average		99.77		0	34	66*		
<u> </u>	1	10.49	89.83	2.51	0	37	63*		ML
1-Oct	2	10.20	90.39	2.53	0	30	70*	:	ML
1995	3	10.00	89.71	2.52	0	28	72		ML
'''	Average		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.



1

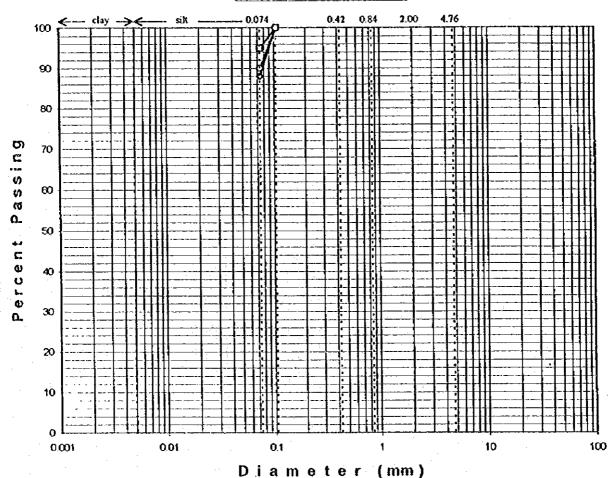
GRAIN SIZE ANALYSIS

PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

SiTE: <u>Capaya Bridge</u> LOCATION: <u>Abacan River</u> DATE SAMPLED: <u>July 31, 1995</u> DATE TESTED: <u>August 7, 1995</u>

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	u	PL	PI	USCS	DESCRIPTION
1			1					ML	*SILT, traces of fine sand.
2			2					ML.	* - same -
3			3				,	ML	* - same -
				1 •	Descript	ion is t	ased or	n mech	anical sieve analysis only

FORM NO. 94001A





PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

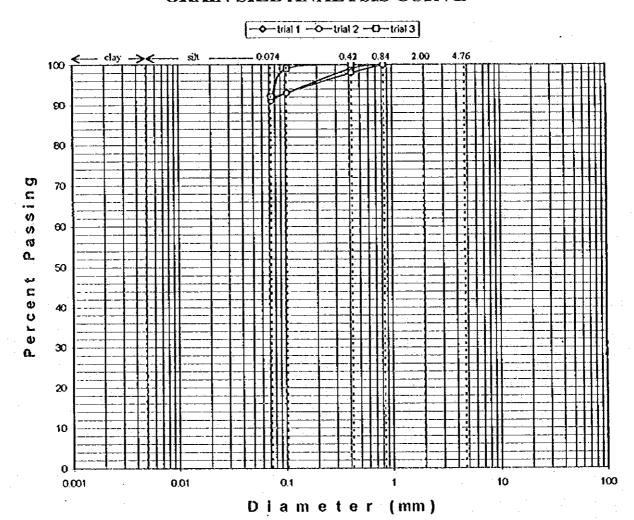
SITE: <u>CAPAYA BRIDGE</u> LOCATION: <u>Abacan River</u>

DATE SAMPLED: August 28, 1995

DATE TESTED: August 31, 1995

SHEET NO. 1 of 1

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
								<u> </u>	
							<u></u>		
				• (Descript	ion is b	ased o	n mech	anical sieve analysis only

FORM NO. 94001A





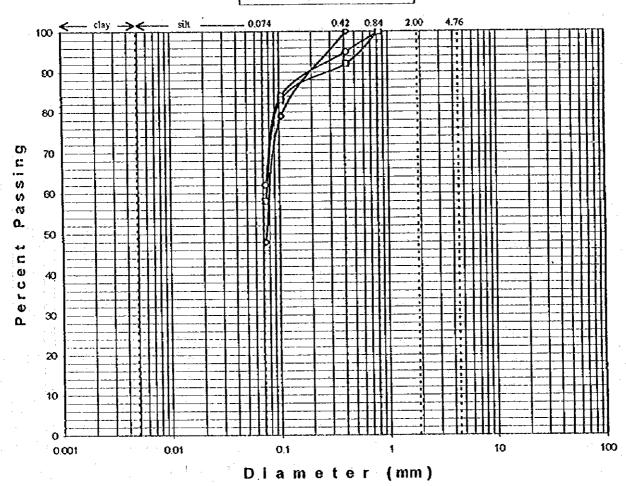
PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

SITE: CAPAYA BRIDGE LOCATION: Abacan River DATE SAMPLED: Sept. 6, 1995 DATE TESTED: Sept. 11, 1995 SHEET NO. 1 of 1



GRAIN SIZE ANALYSIS CURVE

-0-trial 1 -0-trial 2 -U-trial 3



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	u !	PL	Pi	USCS	DESCRIPTION
1			1					SM-ML	SILT & SAND
2			2					ML	*Sandy SILT
3			3					ML	*Sandy SILT
					ļ				
<u>, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>				• (L Descrip	tion is t	ased o	n mecha	nical sieve analysis onl
		:							·



LOCATION: Abacan River DATE SAMPLED: Sept. 14, 1995 DATE TESTED: Sept. 18, 1995

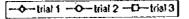
SITE: CAPAYA BRIDGE

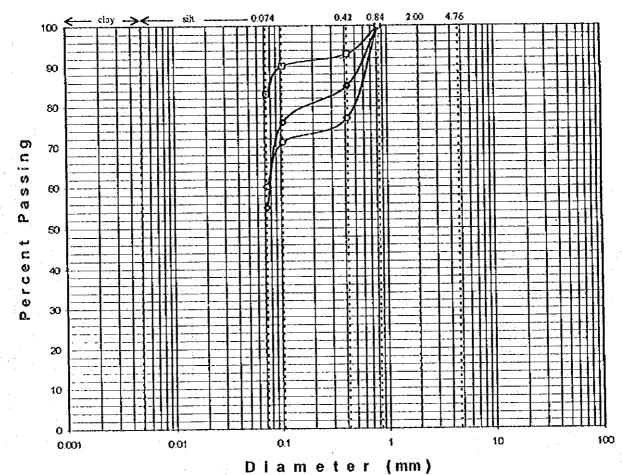
PROJECT: SEDIMENTS SAMPLING FOR

THE MT. PINATUBO PROJECT

SHEET NO. 1 01 1

GRAIN SIZE ANALYSIS CURVE





TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	u	PL	PI	USCS	DESCRIPTION
			1					ML	*Sandy SILT
2			2					ML	*Sandy SILT
3			3					ML	*SILT, little amt. of fine sand
						ļ			
				ļ	<u> </u>	<u></u>	<u> </u>		
				•	Descrip	tion is t	pased o	n mech	anical sieve analysis only.
					ļ		<u> </u>	<u> </u>	

FORM NO. 94001A





PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

SITE: <u>CAPAYA BRIDGE</u> LOCATION: <u>Abacan River</u>

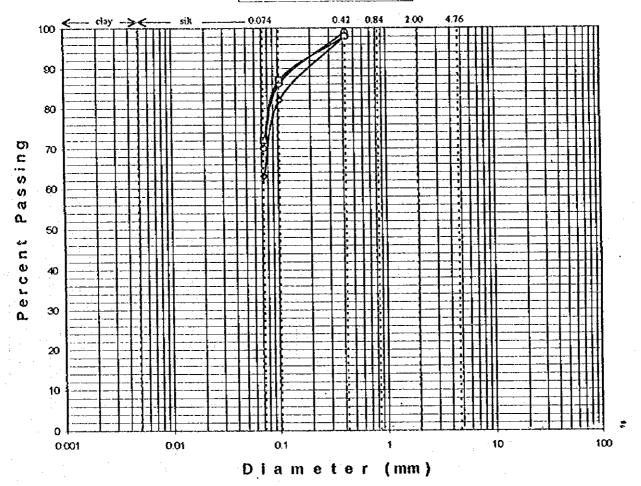
DATE SAMPLED: October 1, 1995

DATE TESTED: October 5, 1995

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE

-- trial 1 -- O-trial 2 -- U-trial 3



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	u	PŁ.	۶I	USCS	DESCRIPTION
1			1					ML	*Sandy SILT
2			2					ML	*Sandy SILT
3			3				:	ML	*Sandy S!LT
							1		
							:		
				• [Descript	ion is b	ased o	n mech	anical sieve analysis onl
									

FORM NO. 94-001A

111 - 14



(3)

SUMMARY OF LABORATORY TEST RESULTS -- NINOY AQUINO BRIDGE

Date of	Trial	Unit Wt.	Available	Specific	(Grain Size I	Distribution	n	Soil
Sampling	No.	(kN/m^3)	Moist. %	Gravity	% Gravel	% Sand	% Silt	% Clay	Class.
	1	10.00	99.77	1.8	0	42	58*		ML
31-Jul	2	9.81	99.77	I.S	0	29	71*		ML
1995	3	10.00	99.78	I.S	0	18	82*		ML
	Average	9.94	99.77		0	30	70*		
	1	10.20	99.91	I.S	0	21	79*		ML
28-Aug	2	9.81	99.91	1.5	0	28	78*		ML
1995	3	10.10	99,85	1.8	0	29	71		ML
	Average	10,04	99,89		0	26	74*		
	ì	9.81	99.87	1.8	0	46	54*		ML
6-Sep	2	9.91	99,85	I.S	0	51	49*		SM-ML
1995	3	9.81	99.86	I.S	0	40	60*		ML
	Average	9.84	99.86		0	46	54*		
	1	11.77	99.60	I.S	0	52	48*		SM-ML
14-Sep	2	11.77	99.60	1.8	0	39	61*		ML
1995	3	11.77	99,50	I.S	0	10	90*		ML
	Average	11.77	99.57		0	34	66*		
	1	10.40	96.17	2.37	0	2	59	40	ML
1-Oct	2	10.20	96.54	2.35	0	1	99*		ML
1995	3	10.29	95.58	2.46	0	2	98*		ML
	Average	10.30	96.10	2.39	0	2	N.A.	N.A.	<u>]</u>

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.



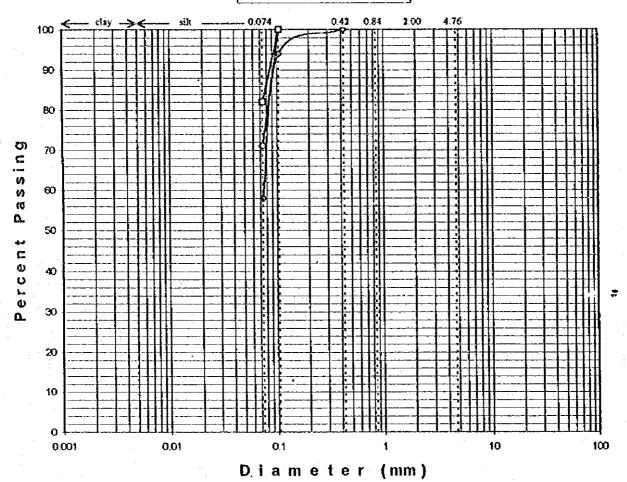
PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

SITE: San Juan Mexico Bridge LOCATION: Abacan River DATE SAMPLED: July 31, 1995 DATE TESTED: August 7, 1995 SHEET NO. 1 of 1



GRAIN SIZE ANALYSIS CURVE

-- trial 1 -- trial 2 -- U-trial 3



TRIAL NO.	SAMPLE NO.	OEPTH (m)	CURVE NO.	NMC	แ	PL	PI	USCS	DESCRIPTION
1			1					ML	*Sandy SILT
2			2					ML	* - same -
3			3					ML	*SILT, traces of fine sand
				* (Descript	ion is t	ased o	n mech	anical sieve analysis onl
	:				<u> </u>			·	

I



PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

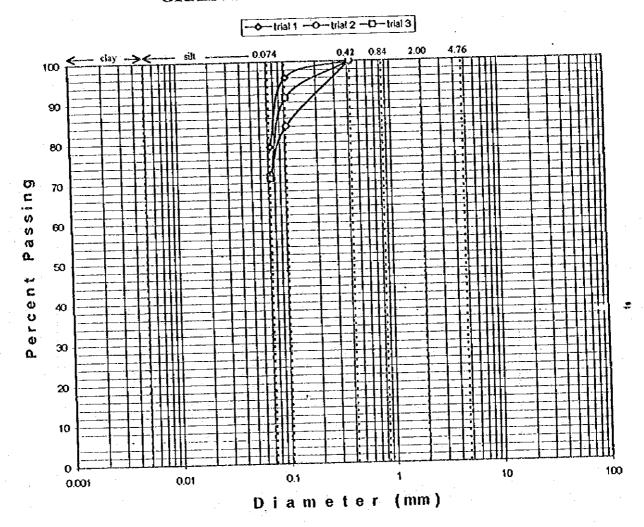
0

SITE: <u>AQUINO BRIDGE</u> LOCATION: <u>Abacan River</u> DATE SAMPLED: <u>August 28, 1995</u>

DATE TESTED: August 31, 1995

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	แ	ΡŁ	Pl	USCS	DESCRIPTION
			1					ML	*SILT, some sand.
<u> </u>			2					ML	*Sandy SILT
3			3					ML.	*Sandy SILT
<u> </u>								ļ	
							<u> </u>	<u> </u>	
	1			• 1	Descrip	tion is	based o	n mech	anical sieve analysis on
	1		<u> </u>			1		·	

FORM NO. 94001A

111 - 17



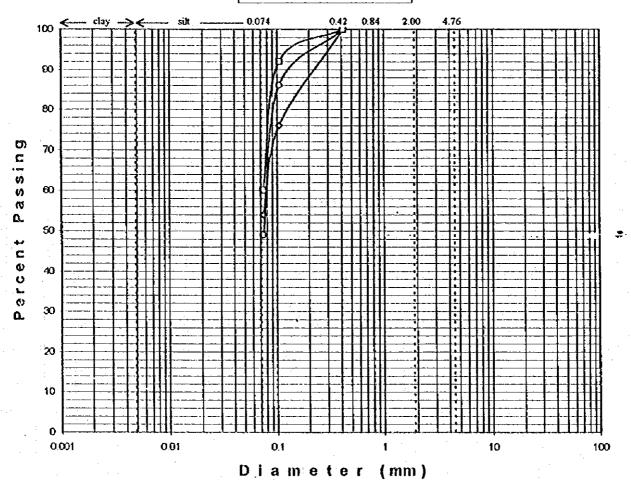
PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

SITE: NINOY AQUINO BRIDGE LOCATION: Abacan River DATE SAMPLED: Sept. 6, 1995 DATE TESTED: Sept. 11, 1995 SHEET NO. 1 of 1



GRAIN SIZE ANALYSIS CURVE

-0-trial 1 -0-trial 2 -0-trial 3



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	แ	PL	Pi	USCS	DESCRIPTION
1			1					ML	*Sandy SILT
2			2					SM-ML	*SAND & SILT
3			3					ML	*Sandy SILT
		·		* {	Descrip	tion is 1	based c	n mecha	nical sieve analysis only
	}					1			







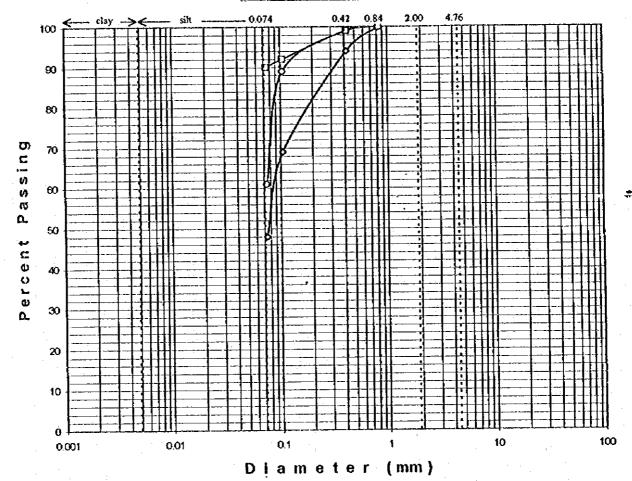
PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

SITE: NINOY AQUINO BRIDGE LOCATION: Abacan River DATE SAMPLED: Sept. 14, 1995 DATE TESTED: Sept. 18, 1995

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE

-o-trial 1 -O-trial 2 -D-trial 3



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	ιι	PĹ	۶I	uscs	DESCRIPTION
**************************************			1					SM-ML	*SAND & SILT
2			2					ML	*Silty SAND
3			3					ML	*SILT, traces of fine sand
 						1			
, ,								1	
				• (Descrip	tion is t	ased c	n mech	anical sieve analysis only

FORM NO. 94001A

Grand.





1

GRAIN SIZE ANALYSIS

PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

SITE: <u>NINOY AQUINO</u> LOCATION: <u>Abacan River</u>

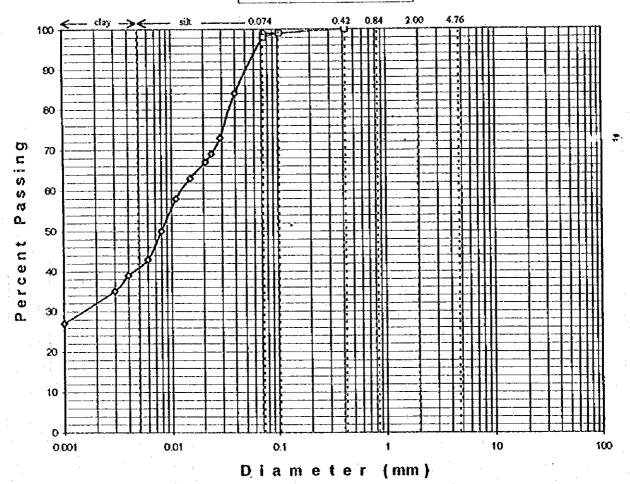
DATE SAMPLED: October 1, 1995

DATE TESTED: October 5, 1995

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE

-- trial 1 -- O -- trial 2 -- U -- trial 3



TRIAL NÓ.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	ll	PL	P	USCS	DESCRIPTION
1			1					ML	Clayey SILT, traces of sand
2			2		. 1			ML	*SILT, traces of fine sand
3			3					ML	*SILT, traces of fine sand
				, <u>, , , , , , , , , , , , , , , , , , </u>					
				• [Descript	ion is b	ased or	mech	anical sieve analysis only
				1]			}	* · · · · · · · · · · · · · · · · · · ·



SUMMARY OF LABORATORY TEST RESULTS -- MEXICO SPILLWAY

S	CHIMIN	VI OF D							Soil
Date of	Trial	Unit Wt.	Available	Specific		Grain Size			
Sampling	No.	(kN/m^3)	Moist. %	Gravity_	% Gravel	% Sand	% Silt	% Clay	Class.
DompS	1	9.91	99.83	I.S	0	7	93*		ML
31-Jul	2	9.91	99.72	I.S	0	10	90*		ML
1995	3	9.91	99,85	I.S	0	8	92	<u></u>	ML
1993	Average	9.91	99.80		0	8	92*		
	1	9.91	99.88	I.S	0	10	90*		ML
28-Aug	2	9.86	99.88	1.8	0	11	89*		ML
1995	3	10.30	99.85	I.S	0	8	92*		ML
1995	Average	10.02	99.87		0	10	90*		
	1	9.81	99,90	1.8	0	51	49*		SM-ML
6-Sep	2	9.81	99.85	IS	0	34	66*		ML
1995	3	9.81	99.90	I.S	0	34	66*		ML
1993	Average		99,88	<u> </u>	0	40	60*		
	1	9.81	99.70	1.8	0	11	89*		ML
14-Sep	2	10.79	99.80	I.S	0	14	86*		ML
1995	3	10.79	99.80	I.S	0	43	57*		ML
1993	Average	<u> </u>	99.77	-	0	23	77*		
	Average	10.10	98.03	1.8	0	3	97*		ML
1-Oct	2	10.49	97.80	1.8	0	1	99*		ML
1995	3	10.30	97.57	1.8	0	1	99*		ML
1 1995	Average		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.



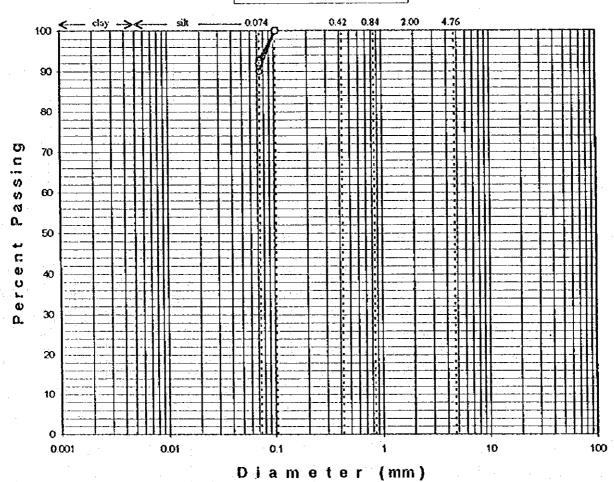
PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

SITE: Mexico Spillway LOCATION: Abacan River DATE SAMPLED: July 31, 1995 DATE TESTED: August 7, 1995 SHEET NO. 1 of 1



GRAIN SIZE ANALYSIS CURVE

-- trial 1 -- O-- trial 2 -- U-- trial 3



TRIAL NO.	SAMPLE NO.	OEPTH (m)	CURVE NO.	NMC	u	PL	Pl	USCS	DESCRIPTION
1			1					ML	*SILT, traces of fine sand.
2			2	, ,				ML	* - same -
3			3					ML	* - same -
				* [Descript	ion is b	ased o	n mech	anical sieve analysis onl
		·						<u> </u>	



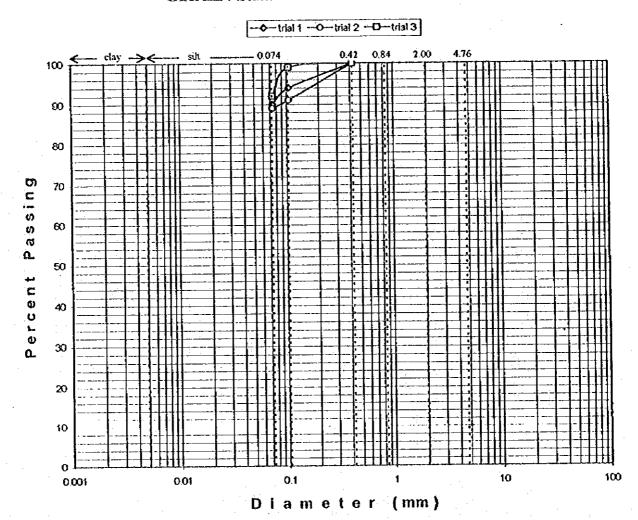
PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

SITE: MEXICO BRIDGE LOCATION: Abacan River

DATE SAMPLED: August 28, 1995
DATE TESTED: August 31, 1995

SHEET NO. 1 011

GRAIN SIZE ANALYSIS CURVE



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	u	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
						<u> </u>	<u> </u>		
					<u></u>		<u> </u>	<u> </u>	
				•	Descrip	tion is t	ased o	n mech	anical sieve analysis only.
					<u> </u>	<u> </u>	<u> </u>	<u> </u>	

FORM NO. 94-001A

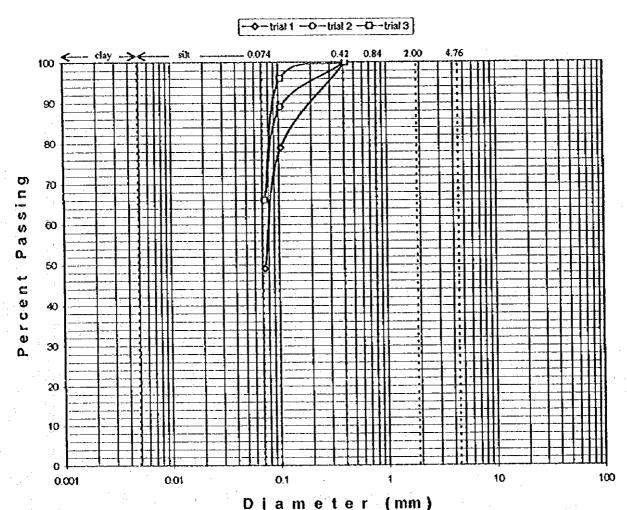


PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

SITE: MEXICO SPILLWAY
LOCATION: Abacan River
DATE SAMPLED: Sept. 6, 1995
DATE TESTED: Sept. 11, 1995

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	ıı.	PL	PI	uscs	DESCRIPTION
 -			1					SM-ML	*SAND & SILT
2			2					ML	*Sandy SILT
3			3					ML	*Sandy SILT
				·					
						<u></u>	<u> </u>		
				*	Descrip	tion is l	pased o	n mecha	nical sieve analysis only
		I			ļ				





PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

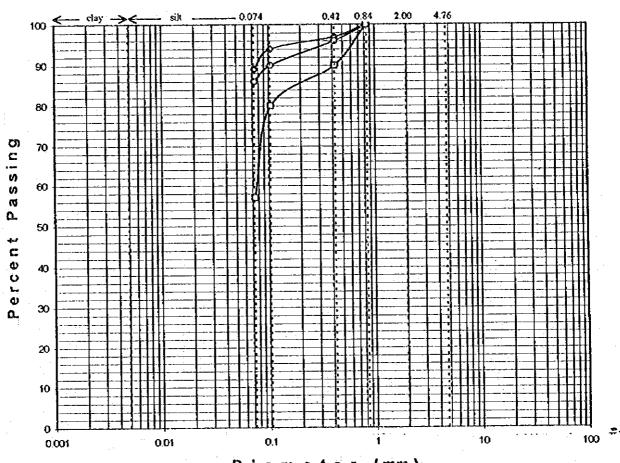
0

SITE: MEXICO SPILLWAY
LOCATION: Abacan River
DATE SAMPLED: Sept. 14, 1995
DATE TESTED: Sept. 18, 1995

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE

-0-trial 1 -0-trial 2 -0-trial 3



Diameter (mm)

TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	u	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
									:
					<u> </u>			<u> </u>	
				• (Descript	ion is b	ased o	n mech	anical sieve analysis only.

FORM NO. 94-001A



SITE: MEXICO SPILLWAY LOCATION: Abacan River

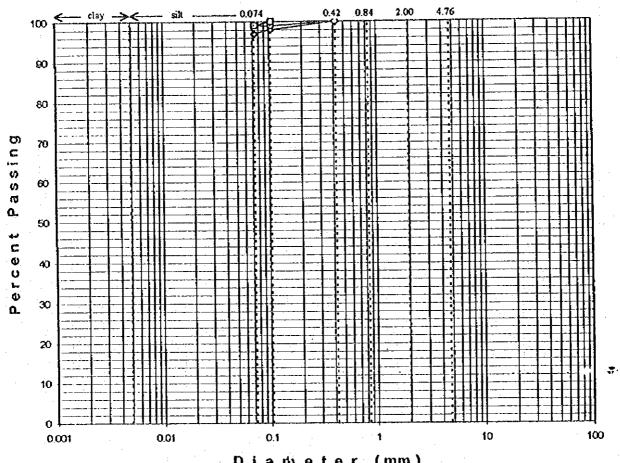
DATE SAMPLED: October 1, 1995 DATE TESTED: October 5, 1995

SHEET NO. 1 of 1

PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

GRAIN SIZE ANALYSIS CURVE

-0-trial 1 -0-trial 2 -1-trial 3



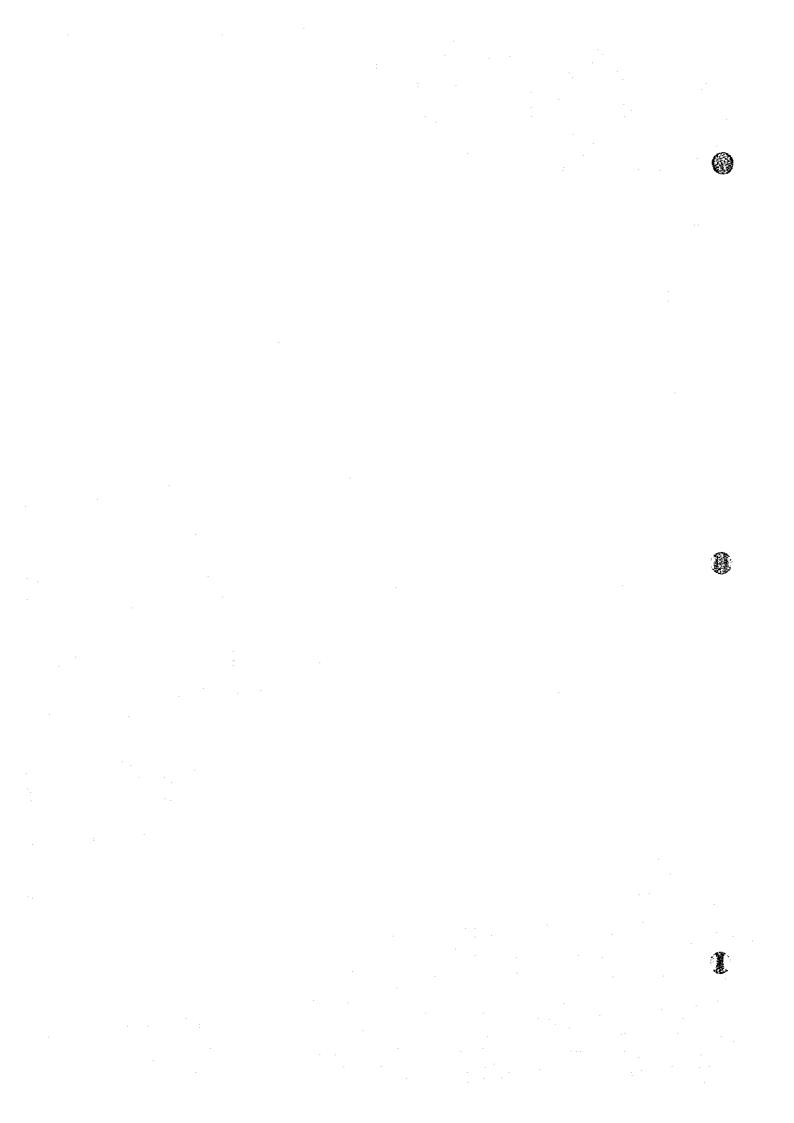
Diameter (mm)

TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	-tt	PL	Pl '	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
<u> </u>		<u></u>		·				<u> </u>	
				* [Descrip	tion is b	ased or	n mech	anical sieve analysis onl
							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

FORM NO. 94-001A



III.2 SACOBIA RIVER





SUMMARY OF LABORATORY TEST RESULTS -- SAPANG BALEN BRIDGE

Date of	Trial	Unit Wt.	Available	Specific)	Soil		
Sampling	No.	(kN/m³)	Moist. %	Gravity	% Gravel	% Sand	% Silt	% Clay	Class.
Jamphilg	1	10.10	95.59	2.55	0	3	67	30	ML
31-Jul	2	10.40	92.85	2,52	0	1	99*		ML
1995	3	10.00	92.60	2.47	0	2	98*		ML
*//~	Average	10.17	93,68	N.A.	0	2	N.A.	N.A.	
	1	9.81	99.56	I.S	0	13	87*		ML
28-Aug	2	9.81	99.40	l.S	0	16	84*		ML
1995	3	9.81	99.60	I.S	0	7	93*		ML
	Average	9.81	99.52		0	12	88*	<u> </u>	
<u> </u>	1	9.81	99.89	1.8	0	57	43*		SM
6-Sep	2	9,91	99.93	1.8	0	48	52*		SM-ML
1995	3	9.91	99.84	1.8	0	25	75*		ML
	Average	9.88	99.89		0	43	57*		
	1	9.81	96.70	2.43	0	1	49	50	CL-ML
14-Sep	2	11.77	98.00	2.46	0	5	95*		ML
1995	3	10.79	97.70	2.45	0	13	87*		ML
	Average	10.79	97.47	2.45	1 0	6	N.A.	N.A.	1

Note:

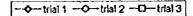
- 1. Available moisture (%) is defined as the ratio of the wt. of water to the total wt. of sample in per 100% means practically zero sediments.
- 2. I.S. Insufficient sample for testing.
- 3. * Insufficient sample for hydrometer test.
- 4. Numbers with * indicate the cumulative amount of silt and clay.

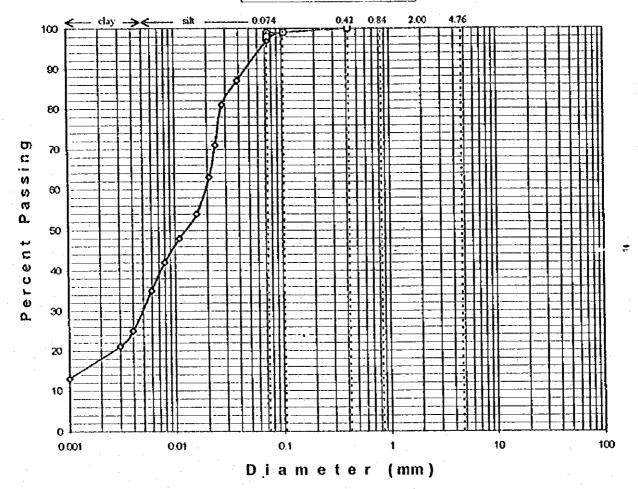


PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

SITE: Sapang Balen LOCATION: Sacobia River DATE SAMPLED: July 31, 1995 DATE TESTED: August 7, 1995 SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE





TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	u	PL	Pi	USES	DESCRIPTION
1			1					ML	Clayey SiLT, traces of sand
2			2				<u> </u>	ML	*SILT, traces of fine sand.
3		· · · · · · · · · · · · · · · · · · ·	3					ML.	* - same -
				* ;	L Descript	ion is t	ased o	n mech	Anical sieve analysis only
	<u> </u>	- 					<u> </u>		



PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

(1)

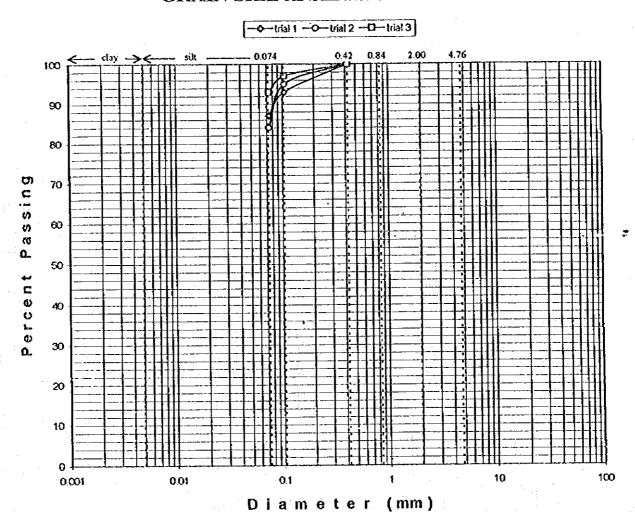
SITE: <u>SAPANG BALEN</u> LOCATION: <u>Sacobia River</u>

DATE SAMPLED: August 28, 1995

DATE TESTED: August 31, 1995

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	II.	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
				,					
		<u> </u>			<u> </u>	<u></u>	<u> </u>	<u> </u>	
		·		* (Descript	ion is t	ased o	n mech	anical sieve analysis only.
						<u> </u>		<u> </u>	

FORM NO. 94-001A

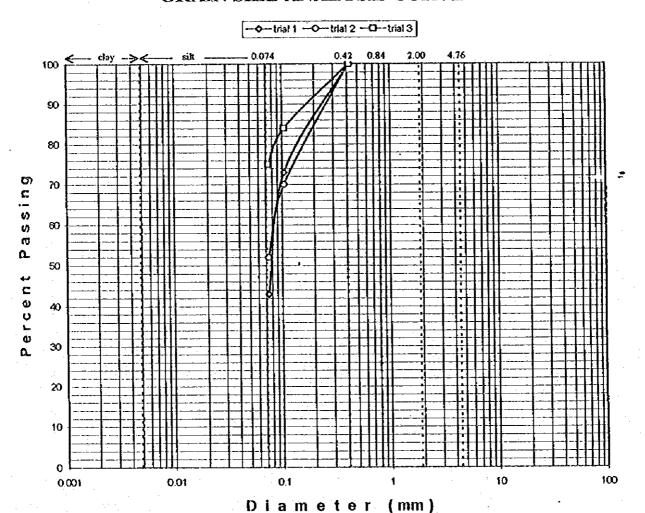


PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT SITE: SAPANG BALEN BRIDGE LOCATION: Abacan River DATE SAMPLED: Sept. 6, 1995

DATE TESTED: Sept. 11, 1995

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE



TRIAL NO.	SAMPLE NO.	OEPTH (m)	CURVE NO.	NMC	ีเเ	PŁ	PI	USCS	DESCRIPTION
1			1					SM	*Silty SAND
2			2				<u> </u>	SM-ML	*SAND & SILT
3			3			·	ļ	ML	*SILT, some sand.
				*	l Descrip	ltion is t	l pased o	n mecha	I enical sieve analysis only
					I				



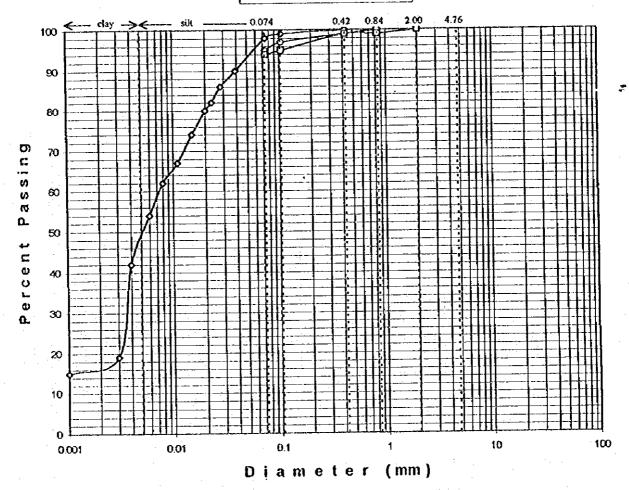




PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT SITE: SAPANG BALEN BRIDGE LOCATION: Sacobia River DATE SAMPLED: Sept. 14, 1995 DATE TESTED: Sept. 18, 1995 SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE

-o-trial 1 -O-trial 2 -O-trial 3



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	ે દુદ	- PL	PI	uscs	DESCRIPTION
			1					CL-ML	CLAY & SILT
2			2					ML	*SILT, traces of fine sand
3			3					ML	*SILT, traces of fine sand
								ļ	
						<u> </u>		<u> </u>	<u> </u>
				•	Descrip	tion is b	ased o	n mech	anical sieve analysis only
		<u> </u>	<u> </u>		<u></u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
FORM NO.	94-001A			111	. 32				

111 - 32



SUMMARY OF LABORATORY TEST RESULTS -- BAIDBID BRIDGE

Date of	Trial	Unit Wt.	Available	Specific		Soil			
Sampling	No.	(kN/m³)	Moist. %	Gravity	% Gravel	% Sand	% Silt	% Clay	Class.
	l	10.10	92.35	2.52	0	2	78	20	ML
31-Jul	2	10.10	92.35	2.55	0	3	97*		ML
1995	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	
	1	10.00	98.92	2.38	0	7	67	26	MI.
6-Sep	2	10.00	98.76	2.41	0	11	89*		ML
1995	3	10.10	98.66	2.40	0	13	87*		ML
	Average	10.03	98.78	2.40	0	10	N.A.	N.A.	
	1	10.79	99.30	2.47	0	38	62*		ML
14-Sep	2	10.79	98.60	2.49	0	7	93*		ML
1995	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.







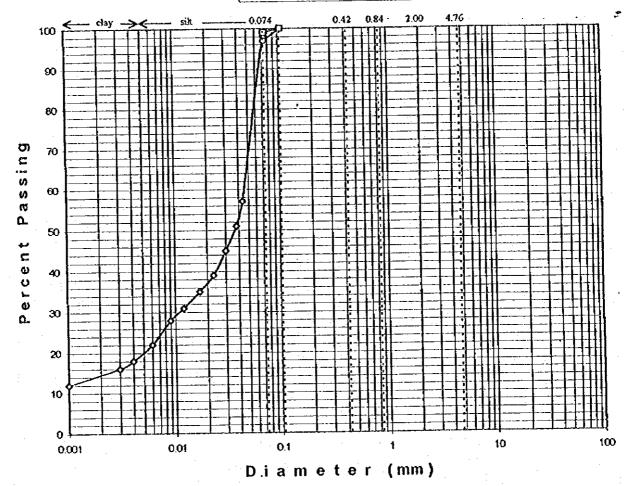
PROJECT: SEDIMENTS SAMPLING FOR

THE MT. PINATUBO PROJECT

SITE: Baldbid Bridge
LOCATION: Sacobia River
DATE SAMPLED: July 31, 1995
DATE TESTED: August 7, 1995
SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE

-O-trial 1 -O-trial 2 -D-trial 3



). DEPTH (m)	CURVE NO.	NMC	u	PL	PI	uscs	DESCRIPTION
	1					ML	SILT with some clay particle
	2					ML	*SILT, traces of fine sand.
	3					ML.	* - same -
		• 1	Descrip	tion is t	ased o	n mech	I anical sieve analysis only
				<u>.</u>	ļ		
1			<u></u>	<u> </u>	<u> </u>		
). DEPTH (m)). DEPTH (m) CURVE NO. 1 2 3	1 2 3	1 2 3 3	1 2 3	1 2 3	1 ML ML



.

GRAIN SIZE ANALYSIS

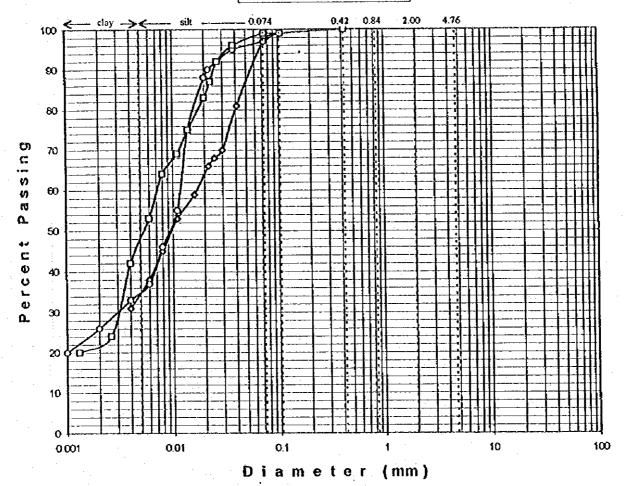
PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT SITE: BAIDBID BRIDGE LOCATION: Sacobia River

DATE SAMPLED: August 28, 1995 DATE TESTED: August 31, 1995

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE

-0-trial 1 -0-trial 2 -D-trial 3



TRIAL NO.	SAMPLE NO.	OEPTH (m)	CURVE NO.	NMC	ll.	PL	Pl	USCS	DESCRIPTION
1			1					ML	Clayey SILT
2			2					ML	Clayey SILT
3			3					ML	Clayey SILT
							· · · · · · · · · · · · · · · · · · ·		
								<u> </u>	
								ļ	

III - 35



PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

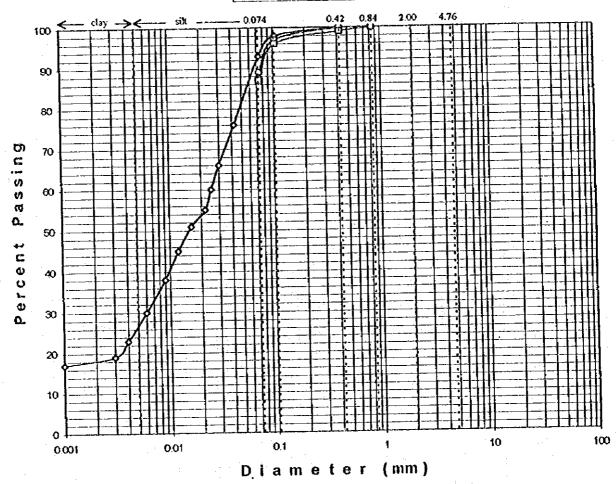
0

SITE: <u>BAIDBID BRIDGE</u>
LOCATION: <u>Sacobia River</u>
DATE SAMPLED: <u>Sept. 6, 1995</u>
DATE TESTED: <u>Sept. 11, 1995</u>

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE

-o-trial 1 -o-trial 2 -O-trial 3



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	u	Pl	PI	uscs	DESCRIPTION
			1					ML	SiLT, some clay
2		·	2					ML	*SILT, little amt. of sand
3			3					ML	*SILT, little amt. of sand
				 			ļ	<u> </u>	
				 	<u></u>	<u> </u>	<u> </u>	1	
			<u> </u>	+ 1	Descrip	tion is t	based c	n mech	anical sieve analysis onl
							ŀ	,	

FORM NO. 94-001A



PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

SITE: <u>BAIDBID BRIDGE</u> LOCATION: <u>Sacobia River</u>

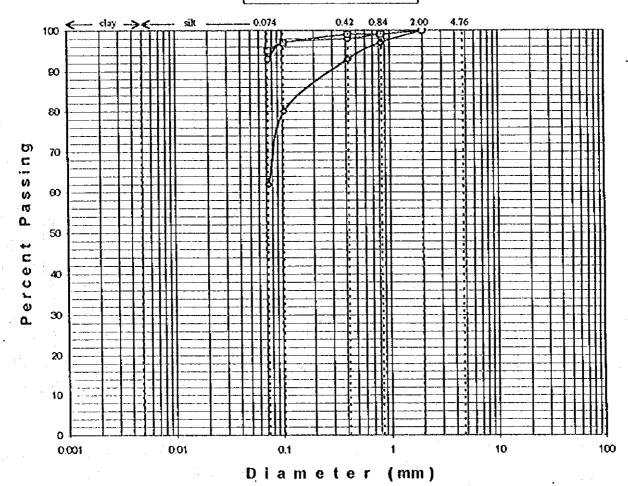
DATE SAMPLED: Sept. 14, 1995

DATE TESTED: <u>Sept. 18, 1995</u>

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE

-0-trial 1 -0-trial 2 -- D-trial 3

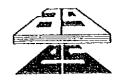


TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	u	PL	Pİ	USCS	DESCRIPTION
1			1					ML	*Sandy SILT
2			2					ML	*SILT, traces of fine sand
3			3			سالت والمعلوات والمتحسمة الم		ML	*SiLT, traces of fine sand
	<u> </u>				<u> </u>		.		
				• (escript	ion is b	ased or	nech	anical sieve analysis only
			1	ŀ	•.		:		

FORM NO. 94-001A

III - 37

S



SUMMARY OF LABORATORY TEST RESULTS -- RCBC

Date of	Trial	Unit Wt.	Available	Specific		Grain Size	Distribution	1	Soil
Sampling	1	(kN/m³)	Moist. %	Gravity	% Gravel	% Sand	% Silt	% Clay	Class.
Jumping	1	9.91	98.58	2.55	0	4	96*		ML
31-Jul	2	10.00	98.31	2.55	0	3	97*		ML
1995	3	9.91	98.47	2.57	0	3	97*		ML
.,,,,	Average	9,94	98.45	2.56	0	3	97*		
	1	10.10	90.02	2.42	0	l	55	44	ML
28-Aug	2	10.00	91.30	2.40	0	0	60	40	ML
1995	3	9.91	89,01	2.42	0	3	65	32	ML
.,,,	Average		90.11	2.41	0	1	60	39	,
	1	9.91	98.21	2.50	0	10	67	23	ML
6-Sep	2	9.91	98.86	2.51	0	7	93*		ML
1995	3	10.10	98.79	2.53	0	8	92*		ML
1,,,,	Average		98.62	2,51	0	8	N.A.	N.A.	
	1	10.79	92.60	2.41	0	7	61	32	ML
14-Sep	2	10.79	96.30	2.44	0	13	87*		ML
1995	3	11.77	96.40	2.42	0	15	85*		ML
.,,,	Average		95.10	2.42	0	12	N.A.	N.A.	<u> </u>

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.



PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

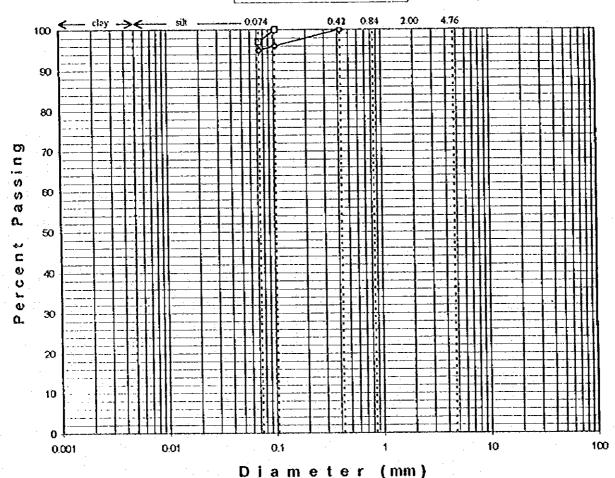
SITE: RCBC Bridge

LOCATION: <u>Sacobia River</u> DATE SAMPLED: <u>July 31, 1995</u> DATE TESTED: <u>August 7, 1995</u>

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE

-0-trial 1 -0-trial 2 -0-trial 3



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	ll.	PL	Pl	USCS	DESCRIPTION
	Ì		1					ML.	*SILT, traces of fine sand
2			2					ML	* - same -
3			3					ML	* - same -
						L			
				• (Descript	ion is b	ased o	n mech	anical sieve analysis only
						l	Į.	1	



()

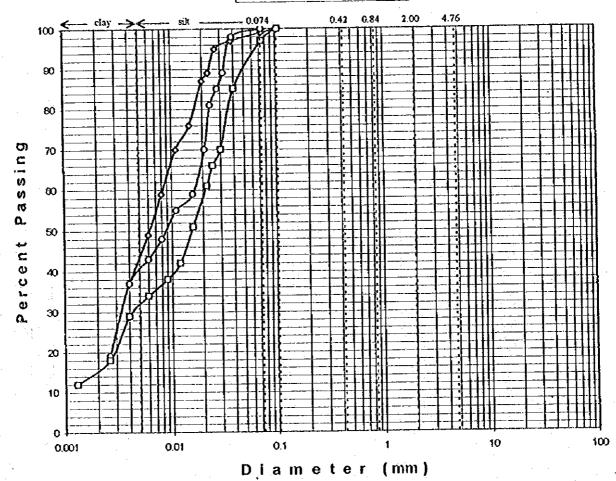
PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

SITE: RCBC BRIDGE LOCATION: Sacobia River DATE SAMPLED: August 28, 1995 DATE TESTED: August 31, 1995

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE

-- trial 1 -- trial 2 -- D-- trial 3



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	ŧŧ	PL	Pi	USCS	DESCRIPTION
1			1					ML	Clayey SILT
2			2					ML	Clayey SILT
3			3					ML	Clayey SILT
	<u> </u>								
	<u> </u>						•		
							-		
······					1				



PROJECT: SEDIMENTS SAMPLING FOR

THE MT. PINATUBO PROJECT

SITE: RCBC BRIDGE

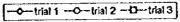
LOCATION: Sacobla River DATE SAMPLED: Sept. 6, 1995

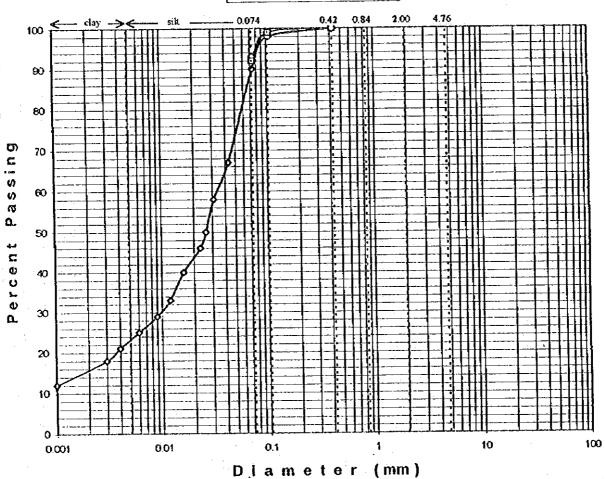
DATE TESTED: Sept. 11, 1995

SHEET NO. 1 of 1



GRAIN SIZE ANALYSIS CURVE





TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	u	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
							·		
					l	<u> </u>	L	<u> </u>	
	,			* (Descrip	tion is t	ased o	n mech	anical sieve analysis only.



PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

SITE: RCBC BRIDGE

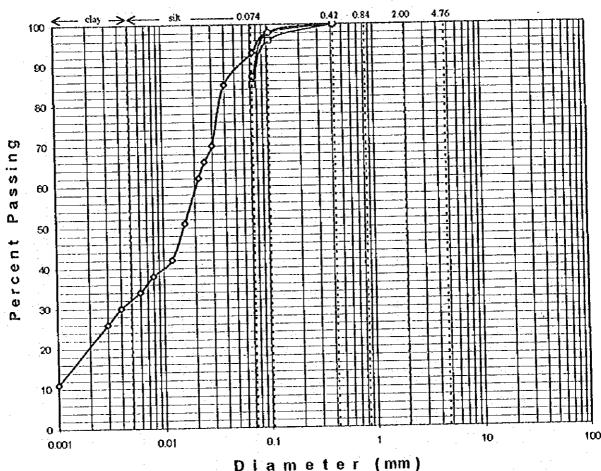
LOCATION: Sacobia River

DATE SAMPLED: Sept. 14, 1995 DATE TESTED: Sept. 18, 1995

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE

-- trial 1 -- trial 2 -- U-trial 3



Ð	į	a	m	6	t	е	r	(mm)

TRIAL NO. S	AMPLE NO.	DEPTH (m)	CURYE NO.	NMC	u	۶L	Pl	USCS	DESCRIPTION
			1					ML	Clayey SiLT
			2					ML	*SILT, little amt. of fine sand
3			3					ML	*SILT, little amt. of fine sand
							ļ	ļ	
				ļ. <u></u>	<u></u>	<u> </u>	<u></u>		
				• 1	Descrip	tion is l	oased o	n mech	anical sieve analysis only.
			<u> </u>		T				

FORM NO. 94 001A



SUMMARY OF LABORATORY TEST RESULTS -- SACOBIA R3

Date of	Trial	Unit Wt.	Available	Specific	(Grain Size	Distribution	ß	Soil
Sampling		(kN/m³)	Moist. %	Gravity	% Gravel	% Sand	% Silt	% Clay	Class.
<u> </u>	1	10.20	91.18	2.41	1	6	93*		ML
31-Jul	2	10.20	91.63	2.49	0	4	58	38	ML
1995	3	10.30	91,59	2.46	0	5	95*		ML
	Average	10.23	91.47	2.45	0	5	N.A.	N.A.	
	1	9,81	96.56	2.36	0	8	92*		ML
28-Aug	2	9.81	97.02	2.40	0	. 4	62	34	ML
1995	3	9.81	97.03	2.38	0	6	94*	<u> </u>	MŁ
	Average	9.81	96.87	2.38	0	6	N.A.	N.A.	
	1	9.81	98.46	2.49	0	31	49	20	ML
6-Sep	2	9,91	98.42	2.47	0	21	80*		ML
1995	3	9.91	98.86	2.50	0	3	93*		ML
• • • • • • • • • • • • • • • • • • • •	Average	9.88	98.58	2.49	0	18	N.A.	N.A.	
	1	9.81	100.00	I.S	0	60	40*		SM
14-Sep	2	10.79	99.70	I.S	0	21	79*		ML
1995	3	9.81	99.70	I.S	0	. 13	87*		М
	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.









PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

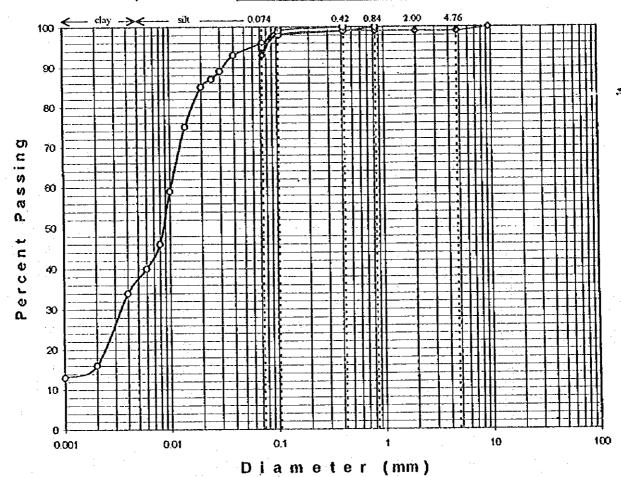
()

SITE: SACOBIA R3

LOCATION: Sacobia River
DATE SAMPLED: July 31, 1995
DATE TESTED: August 7, 1995

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	ш	PL	Pl	USCS	DESCRIPTION
			1					ML	*SILT, traces of fine sand.
2			2					ML	Clayey SILT, traces of sand.
3			3				<u> </u>	ML	*SILT, traces of fine sand.
			-	*] Descrip	l tion is b	ased o	l n mech	anical sieve analysis only.



PROJECT: SEDIMENTS SAMPLING FOR

THE MT. PINATUBO PROJECT

SITE: SACOBIA

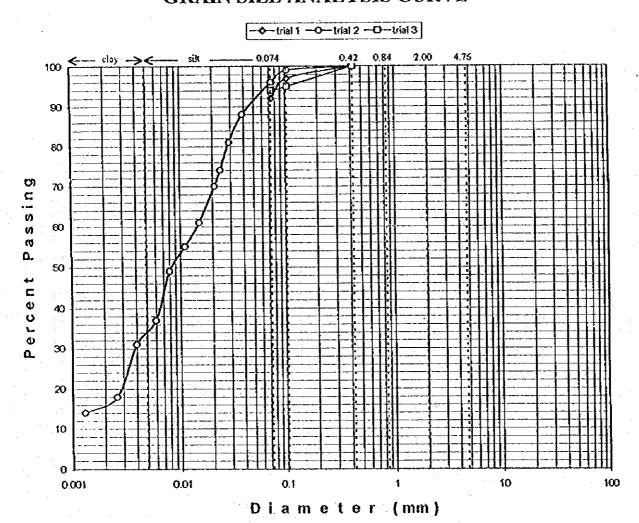
LOCATION: Sacobla River

DATE SAMPLED: August 28, 1995

DATE TESTED: August 31, 1995

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	u	PL	Pi	USCS	DESCRIPTION
1			1					ML	*SiLT, traces of sand
			2					ML	Clayey SILT
2			3	 				ML	*SILT, traces of sand.
3									
						<u> </u>			
				• [Descript	ion is b	ased o	n mech	anical sieve analysis only
						1		.	<u> </u>

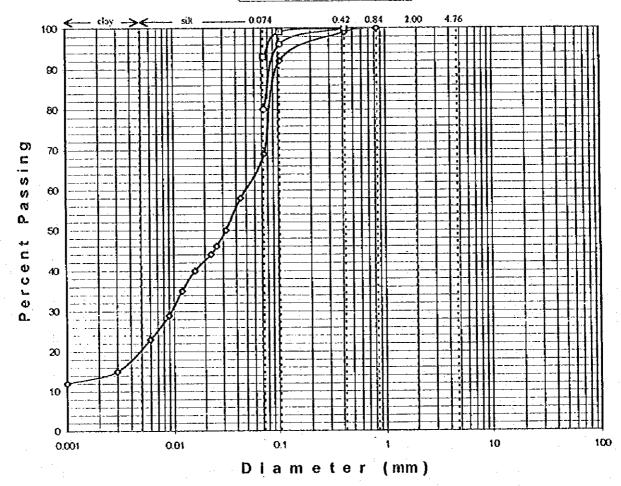


PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

SITE: SACOBIA R3 LOCATION: Sacobia River DATE SAMPLED: Sept. 6, 1995 DATE TESTED: Sept. 11, 1995

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	u	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
								<u> </u>	
				* (Descript	ion is b	ased o	n mech	anical sieve analysis onl
								ļ	



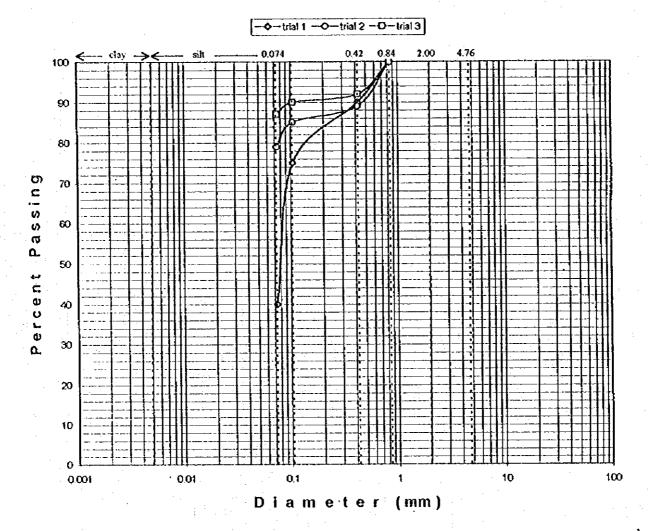
PROJECT: SEDIMENTS SAMPLING FOR

THE MT. PINATUBO PROJECT

SITE: SACOBIA BRIDGE LOCATION: Sacobia River DATE SAMPLED: Sept. 14, 1995 DATE TESTED: Sept. 18, 1995

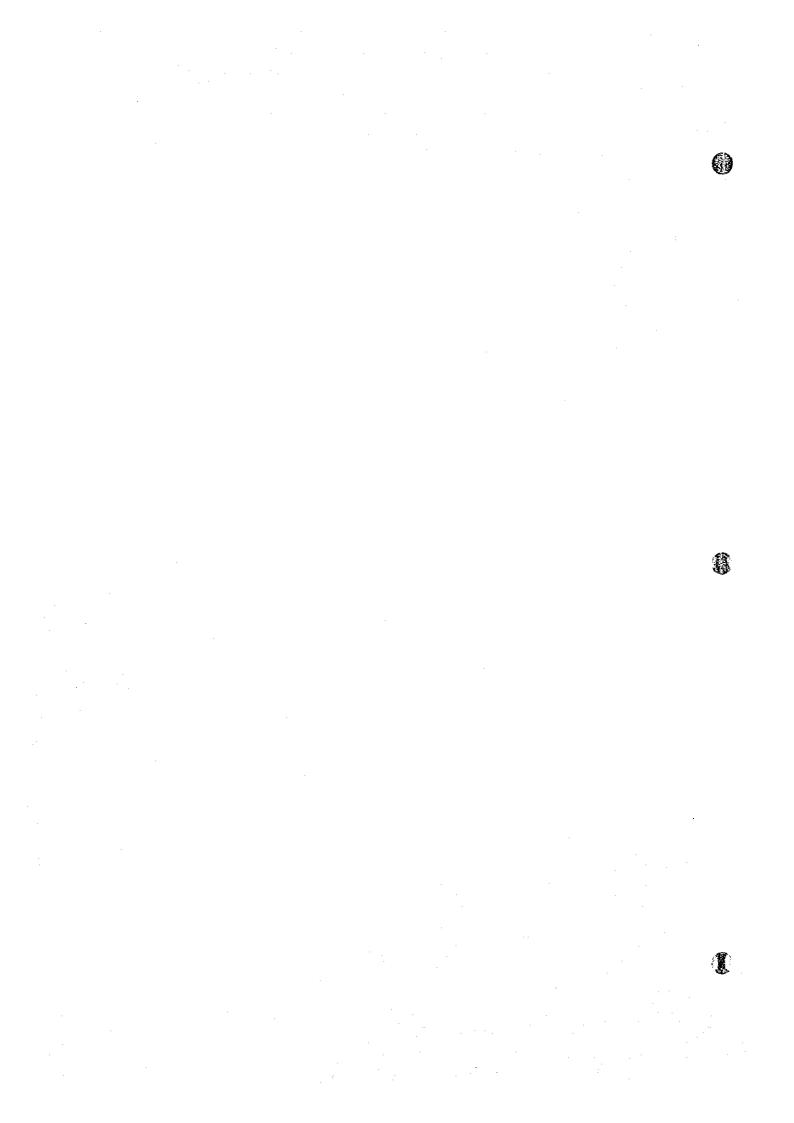
SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	ιί	PL	Pl	USCS	DESCRIPTION
1			1					SM	*Silty SAND
2			2					ML	*SILT, some fine sand
3			3					ML	*SILT, little amt. of fine sand
					<u> </u>		<u></u>	<u> </u>	
,				• 1	Descrip	tion is t	ased o	n mech	anical sieve analysis only.
	1				ļ		<u> </u>		

III.3 BAMBAN RIVER





SUMMARY OF LABORATORY TEST RESULTS -- SAN FRANCISCO BRIDGE

Date of	Trial	Unit Wt.	Available	Specific	(Grain Size	Distribution	n	Soil
Sampling		(kN/m³)	Moist. %	Gravity	% Gravel	% Sand	% Silt	% Clay	Class.
Camping	1	9.81	99.70	1.5	0	8	92*		ML
31-Jul	2	9.91	99.72	1.5	0	20	80*		ML
1995	3	9.81	99.72	1.\$	0	10	90*		ML
.,,,	Average	9.84	99.71	N.A.	0	13	87*	<u> </u>	
	1	9.81	99.50	1.8	0	11	89*		ML
28-Aug	2	9.91	99.46	1.S	0	10	90*		ML
1995	3	10.00	99,40	1.8	0	7	93*		ML
	Average	9.91	99.45		0	9	81*		
	1	9.91	99.52	1.5	0	40	60*		ML
6-Sep	2	9,81	99.55	1.S	0	28	72*		ML
1995	3	9:81	99.11	2.45	0	55	45*		SM
,,,,	Average	9.84	99,39	N.A.	0	41	59*		
<u> </u>	1	10.79	99.50	1.8	0	22	78*		ML
14-Sep	2	10.79	99.80	I.S	0	15	85*		ML
1995	3	11.77	99.80	1.8	0	11	89*		ML
	Average	4444	99.70		0	16	84*	1	

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.



PROJECT: SEDIMENTS SAMPLING FOR

THE MT. PINATUBO PROJECT

SITE: SAN FRANCISCO BRIDGE

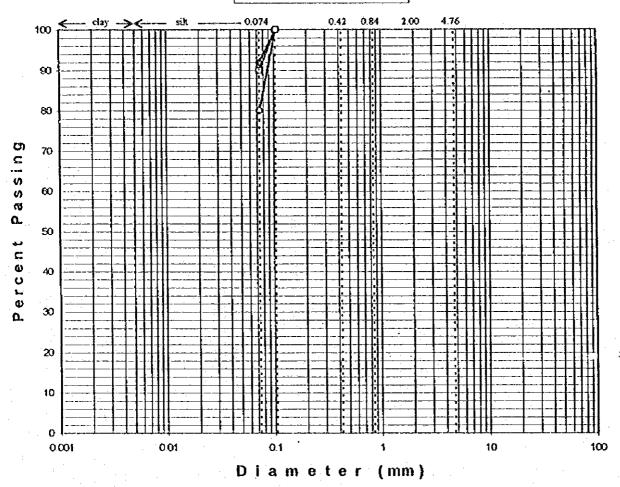
LOCATION: <u>Bamban River</u> DATE SAMPLED: <u>July 31, 1995</u>

DATE TESTED: August 7, 1995

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE

-0-trial 1 -0-trial 2 -D-trial 3



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	ll	PL	Pl	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.
				• [) Descript	ion is b	ased or	nech	l anical sieve analysis only.
							l	L	

FORM NO. 94-001A

III - 50



PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

()

SITE: SAN FRANCISCO BRIDGE

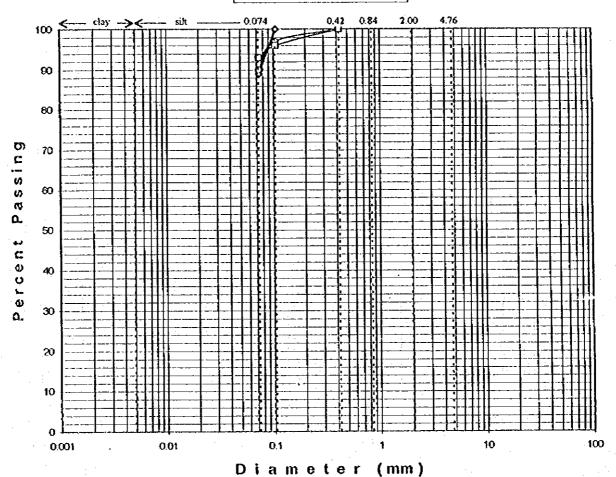
LOCATION: <u>Bamban River</u>

DATE SAMPLED: <u>August 28, 1995</u> DATE TESTED: <u>August 31, 1995</u>

SHEET NO. 1 011

GRAIN SIZE ANALYSIS CURVE

-0-trial 1 -0-trial 2 -0-trial 3



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	u -	PL	Pl	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
						 	· · · · · · · · · · · · · · · · · · · ·		
				* [Descript	ion is b	ased o	n mech	anical sieve analysis only.
						1		1	

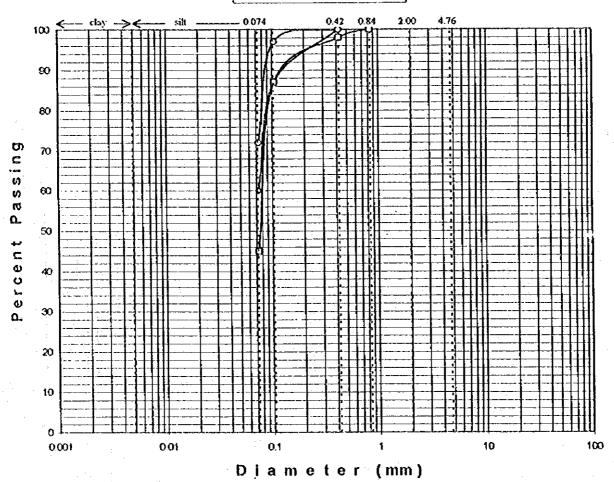


PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

SITE: SAN FRANCISCO BRIDGE LOCATION: Bamban River DATE SAMPLED: Sept. 6, 1995 DATE TESTED: Sept. 11, 1995 SHEET NO. 1 of 1



GRAIN SIZE ANALYSIS CURVE



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	ll	PL	: Pl	USCS	DESCRIPTION
1			1					ML	*Sandy SILT
2			2					ML	*Sandy SILT
3			3					SM	*Silty SAND
					<u> </u>	<u></u>	L		
				* (Descrip	ion is b	ased o	n mech	anical sieve analysis only
							j		



()

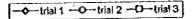
PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

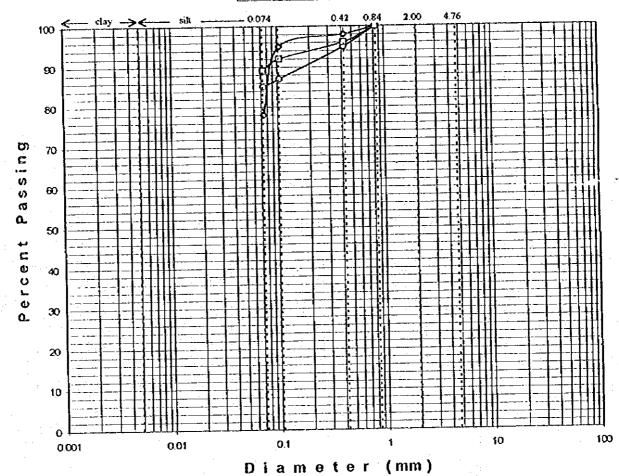
SITE: SAN FRANCISCO BRIDGE LOCATION: Bamban River DATE SAMPLED: Sept. 14, 1995

DATE TESTED: Sept. 18, 1995

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE





		T	
		ML	*SILT, some fine sand
		ML	*SILT, little amt. of fine sand
		ML	*SILT, traces of fine sand
		<u> </u>	
<u> </u>	<u> </u>	<u> </u>	
tion is t	based o	n mech	nanical sieve analysis only.
-	tion is l	tion is based o	ML

FORM NO. 94001A



SUMMARY OF LABORATORY TEST RESULTS -- MARIMLA BRIDGE

Date of	Trial	Unit Wt.	Available	Specific		Grain Size I	Distribution	n	Soil
Sampling		(kN/m ³)	Moist. %	Gravity	% Gravel	% Sand	% Silt	% Clay	Class.
Jamping	1	10.30	99.82	1.S	0	10	90*		ML
31-Jul	2	10,20	99.81	I,S	0	7	93*		ML
1995	3	10.10	99.84	I.S	0	8	92*		ML
1,,,,	Average		99.82		0	8	92*		
	1	9.81	99.77	I.S	0	9	91*		ML
28-Aug	2	9.81	99.77	I.S	0	12	88*		ML
1995	3	9.81	99.86	1.S	0	2	98*		ML
•	Average	9.81	99.80		0	8	92*		
 	1	9.91	99.76	I.S	0	28	72*		ML
6-Sep	2	9.81	99.70	I.S	0	53	47*		SM
1995	3	9.91	99.74	I.S	0	17 .	83*		ML
	Average	9.88	99.73		0	33	67*	and the same of th	
	1	9.81	99.90	I.S	0	56	44*		SM
14-Sep	2	11.77	100.00	I.S	0	41	59*		ML
1995	3	10.79	99.90	1.8	0	39	61*		ML_
	Average	10.79	99,93		0	45	55*	<u></u>	<u>L.,</u>

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.





PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

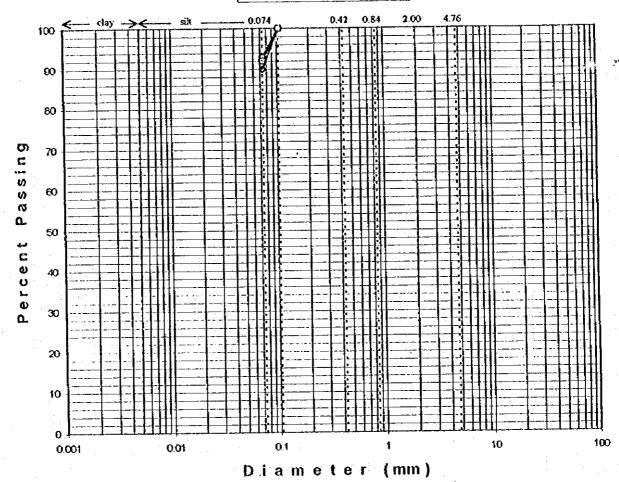
0

SITE: <u>BAMBAN BRIDGE R3</u> LOCATION: <u>Bamban River</u> DATE SAMPLED: <u>July 31, 1995</u> DATE TESTED: <u>August 7, 1995</u>

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE

-0-trial 1 -0-trial 2 -D-trial 3



TRIAL NO.	SAMPLE NO.	OEPTH (m)	CURVE NO.	NMC	แ	PL	Pl	USCS	DESCRIPTION
1			1					ML	*SILT, traces of fine sand.
2			2					ML	* - same -
3			3				:	ML	* - same -
					<u> </u>	L		L	<u> </u>
				• 0	Descript	ion is b	ased or	nech	anical sleve analysis only.
	1								
				<u> </u>			<u> </u>	<u> </u>	



PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

SITE: MARIMLA

LOCATION: Bamban River

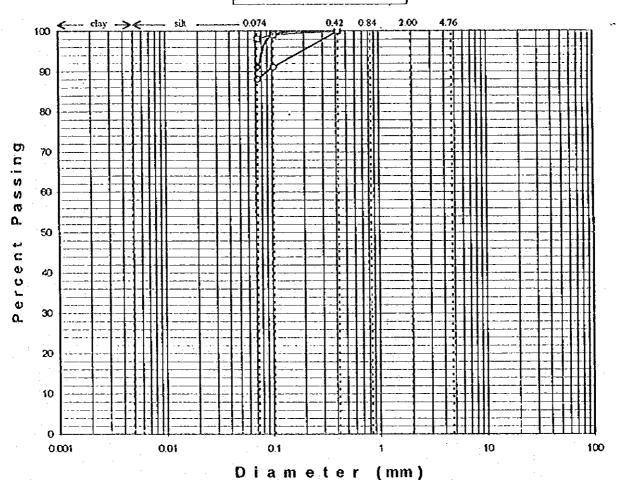
DATE SAMPLED: August 28, 1995

DATE TESTED: August 31, 1995

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE

-0-trial 1 -0-trial 2 -D-trial 3



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

FORM NO. 94-001A

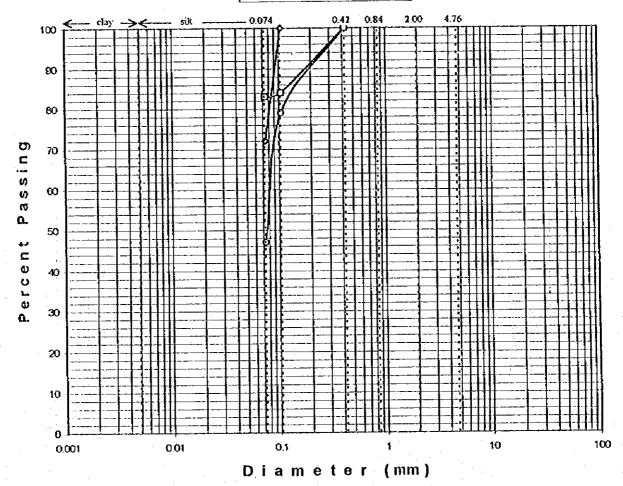


PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

SITE: MARIMLA BRIDGE
LOCATION: Bamban River
DATE SAMPLED: Sept. 6, 1995
DATE TESTED: Sept. 11, 1995

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE



TRIAL NO.	SAMPLE NO.	DEPTH (m)	CURVE NO.	NMC	; U	PL	. PI	uscs	DESCRIPTION
1			1					ML	Sandy SILT
2			2					SM	*Silty SAND
3			3					ML	*SILT, little amt. of sand
		:							
				• (Descript	ion is t	pased o	n mech	anical sieve analysis onl
· · · · · · · · · · · · · · · · · · ·	1								



1

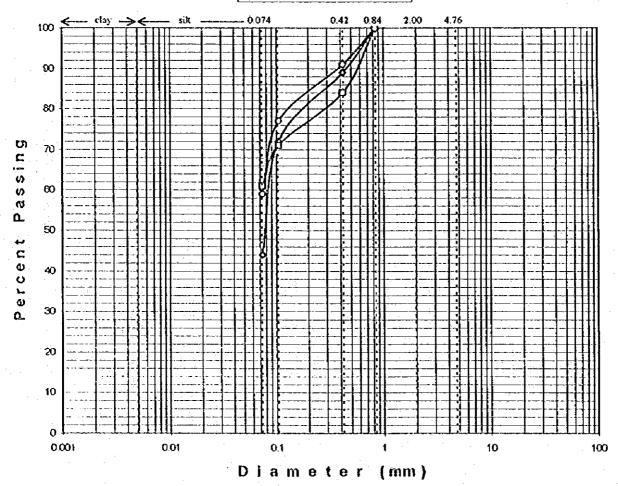
GRAIN SIZE ANALYSIS

PROJECT: SEDIMENTS SAMPLING FOR THE MT. PINATUBO PROJECT

SITE: MARIMLA BRIDGE LOCATION: <u>Bamban River</u> DATE SAMPLED: <u>Sept. 14, 1995</u> DATE TESTED: <u>Sept. 18, 1995</u>

SHEET NO. 1 of 1

GRAIN SIZE ANALYSIS CURVE



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

FORM NO. 94-001A

III - 58