FIELD BORING LOG

Project Name: TRINITY RIVER - WALLISVILLE, TEXAS		Project No. 93-312G
Location: TRINITY RIVER		Client: ARMY CORP OF ENGINEER
Boring No.: 93-275	Date Started: 3-7-94	El. of River: + 3.339
Water Depth: 17.89	Date Completed: 3-7-94	Easting: 3,353,559.89
Time Started: 7:00 AM	Northing: 744,229.45	Driller: PAT STEPHENS
Time Completed: 12:00 PM	Logger: D. CANADA	Depth to caving:
Rig: MOBIL B-61	Weather:	

DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLES	SOIL DESCRIPTION	SOIL CLASSIFICATION	BLOWS/6"	BLOWS/6"	BLOWS/6"	TORVANE	HAND PENETROMETER
0				NO RECOVERY						
5										
	S1	P	X	very dense LT. GR. LT. TA. SA.	SP	15	-50/5			
10										
15	S2	P	X	MED. DENSE LT. TA. LT. GR. SA.	SP	8	10	11		
20										
	S3	P	X	v/stiff ~~MED. DENSE~~ GR. LT TA ~~SA~~ SIL CL	SC	10	15	18		
	S4	T		st LT. TA. LT. GR. ~~CL SA~~ SA CL	~~SP~~ CL					2.0
25										
30										

FIELD BORING LOG

Boring No.: 93-275

DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLES	SOIL DESCRIPTION	SOIL CLASSIFICATION	BLOWS/6"	BLOWS/6"	BLOWS/6"	TORVANE (tsf)	HAND PENETROMETER (tsf)
30	S5	P	X	MED. DENSE LT. GR. TA. SA W/ GRAVEL ROCKS	SP	7	9	12		
35										
	S6	P	X	VERY DENSE LT. GR. TA. SA W/ GRAVEL ROCKS	SP	13	29	15		
40										
45	S7	P	X	V/ stiff ~~MED. DENSE~~ LT. TA. GR. ~~SIL.~~ CL. W/ SA PKT CAL	CH ~~SM.~~	7	8	9		
	S8	S		V/ stiff ~~SOFT~~ LT. TA. GR. ~~SIL.~~ CL. W/ CAL FER	CH ~~CL~~				.3	2.75
	S9	J		LT. TA. GR. ~~SIL.~~ CL. W/ CAL FER	CL					
50 (S)	S10	S		~~VERY~~ SOFT LT. TA. GR. SA. CL.	CL ~~SC~~				.15	0.5
	S11	S		V/ ~~MED.~~ STIFF LT. TA. GR. SA. CL. →	~~SC~~ CL				.54	2.25
55										
60	S12	P	X	V/ dense LT. GR. SA.	SP	35	50/5"			
65	S13	P	X	V/ dense LT. GR. SA.	SP	30	50/5"			
70										

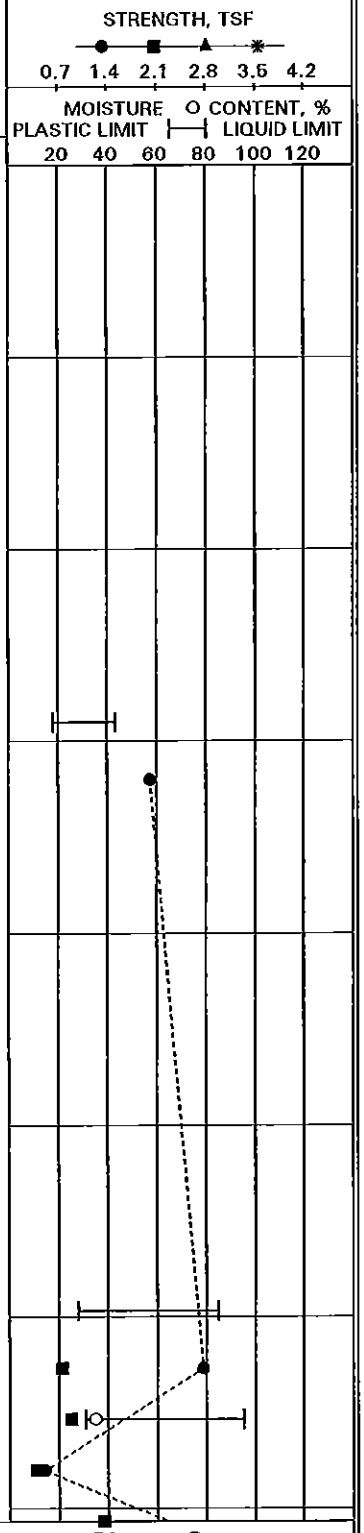
NOTE: (S) SHORT SAMPLE

LOG OF SOIL BORING

Project Name: Trinity River Soil Borings
Project No. 93-312G
ring No.: 93-275
ıd Line Elevation: -14.5 feet (NGVD)
Completion Depth: 67.5 feet
Water Depth: 17.89 feet

Weather: -
Date: March 7, 1994
Technician: David Canada
Driller: Pat Stevens
Drilling Rig: Mobil B-61

ELEV. DEPTH, FEET	SOIL AND SAMPLER SYMBOLS	SOIL DESCRIPTION	BLOWS PER FOOT	% PASSING NO. 4 SIEVE	% PASSING NO. 10 SIEVE	% PASSING NO. 40 SIEVE	% PASSING NO. 100 SIEVE	% PASSING NO. 200 SIEVE	DRY DENSITY PCF
-15 / 0		No recovery							
-20 / 5									
		Very dense tan and gray SAND	50/ 5"	100	99	96	12	3	
-25 / 10									
-30 / 15		medium dense below 14'	21	100	98	94	11	4	
-35 / 20									
		Hard tan and gray SANDY CLAY	33	99	99	94	83	70	
-40 / 25				100	100	99	85	54	
-45 / 30		Medium dense tan SAND w/ gravel	21	94	92	58	2	1	
-50 / 35									
		dense, tan and gray below 37'	44	86	83	50	11	8	
-55 / 40									
-60 / 45		Stiff to very stiff brown and gray CLAY w/ silt and slickensides w/ silt pockets and ferrous nodules to 45.5'	17	100	100	99	99	99	
		reddish brown w/ gravel below 48'		98	97	95	94	94	92
50									



● = Direct Hand Penetrometer ■ = Torvane ▲ = Unconfined Compression ✱ = Shear Stress

Plate 7A

HVJ ASSOCIATES, INC.

LOG OF SOIL BORING

Project Name: Trinity River Soil Borings
Project No. 93-312G
ring No.: 93-275
ud Line Elevation: -14.5 feet (NGVD)
Completion Depth: 67.5 feet
Water Depth: 17.89 feet

Weather: -
Date: March 7, 1994
Technician: David Canada
Driller: Pat Stevens
Drilling Rig: Mobil B-61

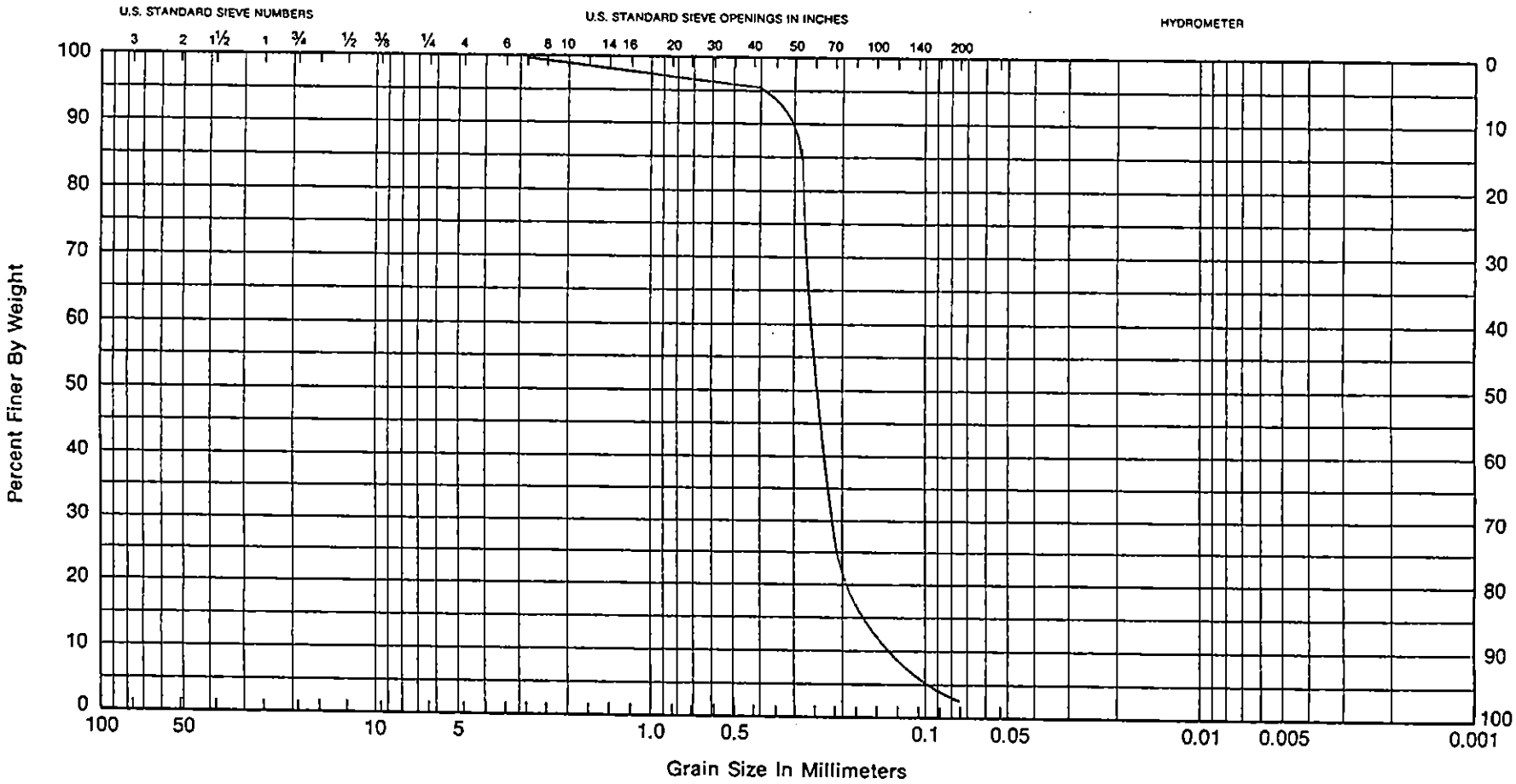
ELEV. DEPTH, FEET	SOIL AND SAMPLER SYMBOLS	SOIL DESCRIPTION	BLOWS PER FOOT	% PASSING NO. 4 SIEVE	% PASSING NO. 10 SIEVE	% PASSING NO. 40 SIEVE	% PASSING NO. 100 SIEVE	% PASSING NO. 200 SIEVE	DRY DENSITY PCF	STRENGTH, TSF (0.7 1.4 2.1 2.8 3.5 4.2) / MOISTURE CONTENT, % (PLASTIC LIMIT — LIQUID LIMIT) (20 40 60 80 100 120)
-70 / 55										
-75 / 60		Very dense gray SILTY SAND	50/5"	100	100	100	88	15		
-80 / 65		gray and tan below 66'	50/5"	100	100	99	73	13		
70										
-90 / 75										
-95 / 80										
100 / 85										
105 / 90										
110 / 95										
115 / 100										
105										

● = Direct Hand Penetrometer ■ = Torvane ▲ = Unconfined Compression ✱ = Shear Stress

Plate 7B

HVJ ASSOCIATES, INC.

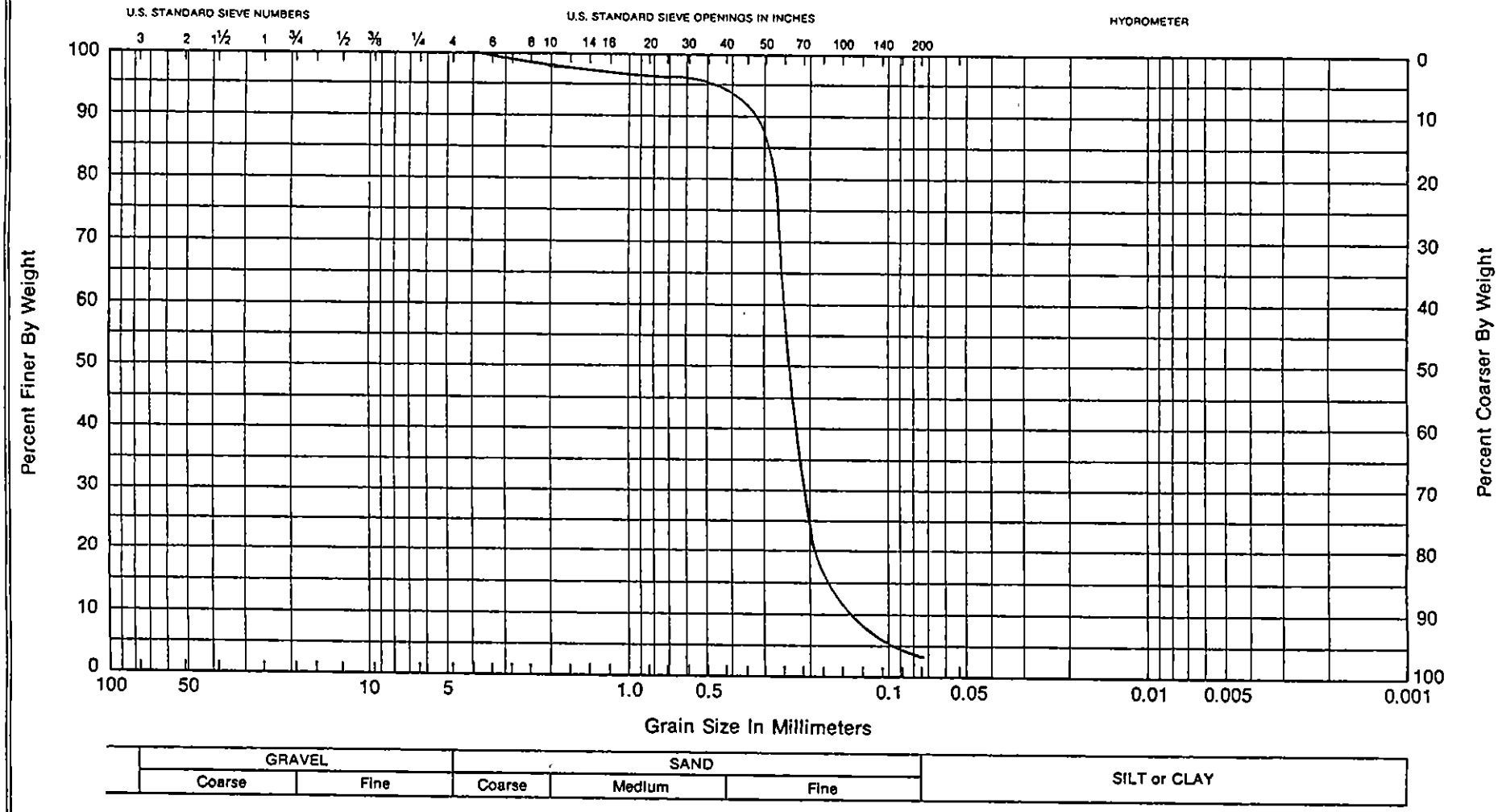
GRAIN SIZE CURVES



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

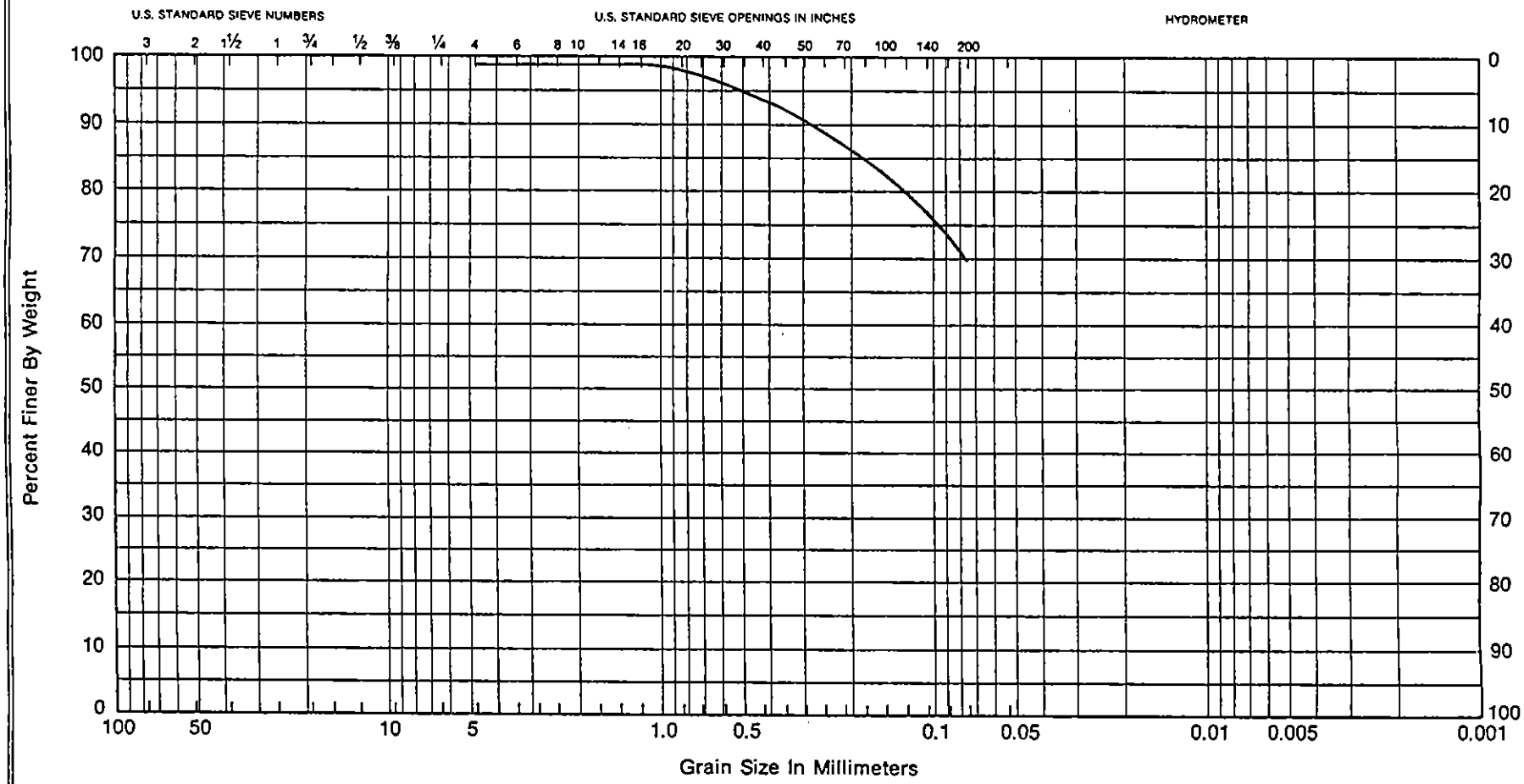
DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-275, S1, 7' - 8.5'
HVJ 93-312G
TAN AND GRAY SAND WITH SILT

GRAIN SIZE CURVES



DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-275, S2, 14' - 15.5'
HVJ 93-312G
TAN AND GRAY SAND WITH SILT

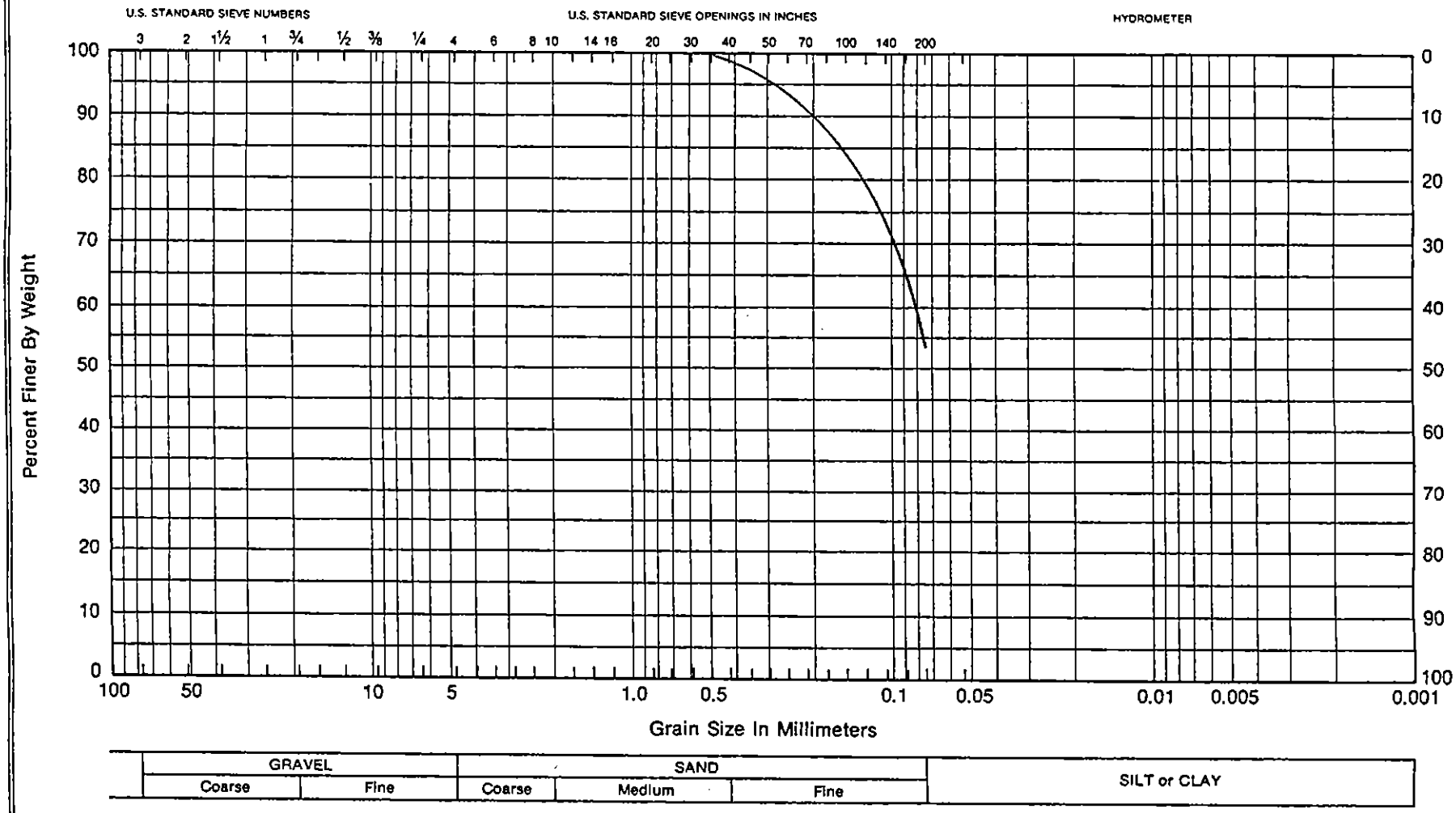
GRAIN SIZE CURVES



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

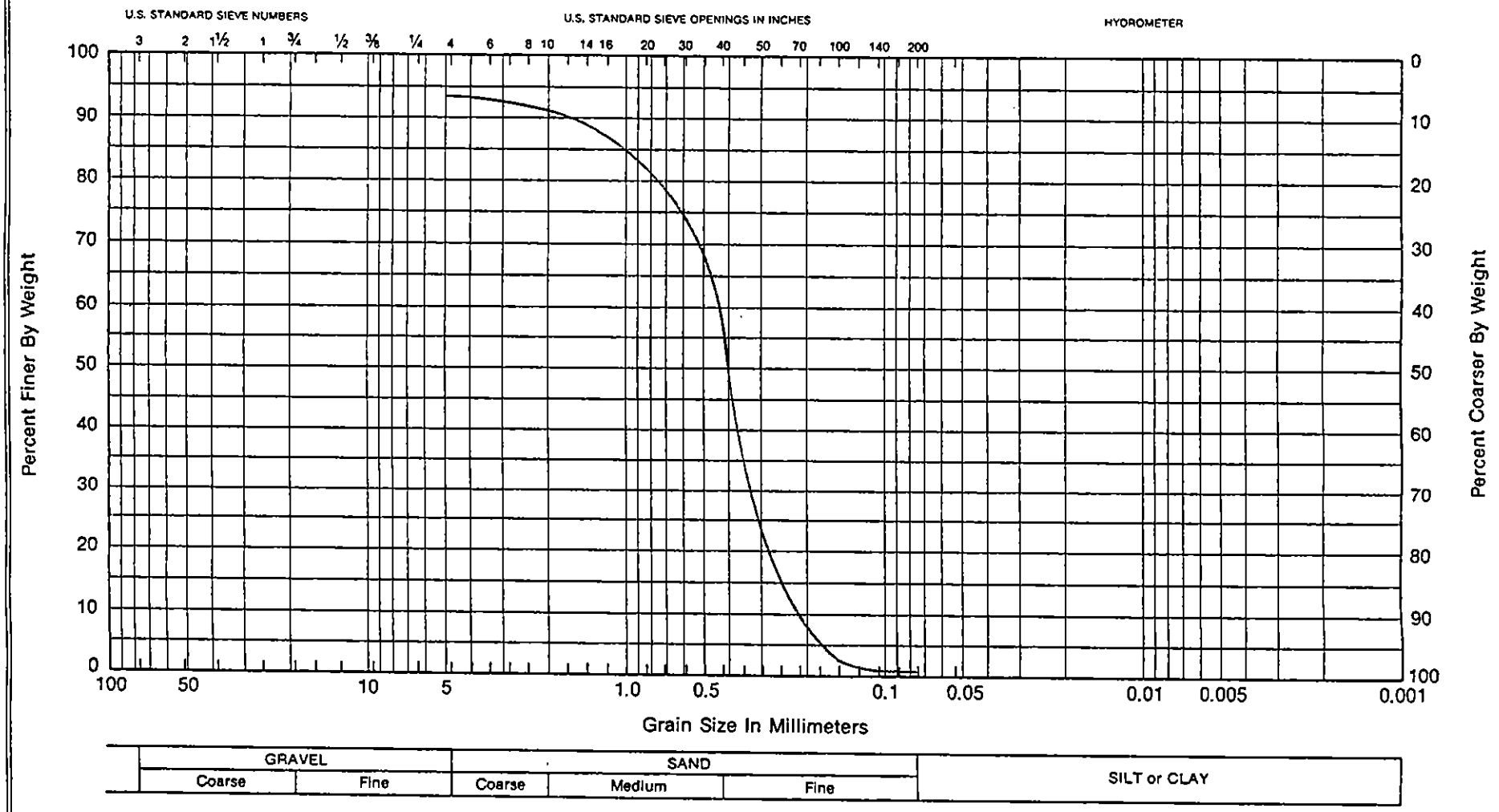
DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-275, S3, 21' - 22.5'
HVJ 93-312G
TAN AND GRAY SANDY CLAY WITH SILT

GRAIN SIZE CURVES



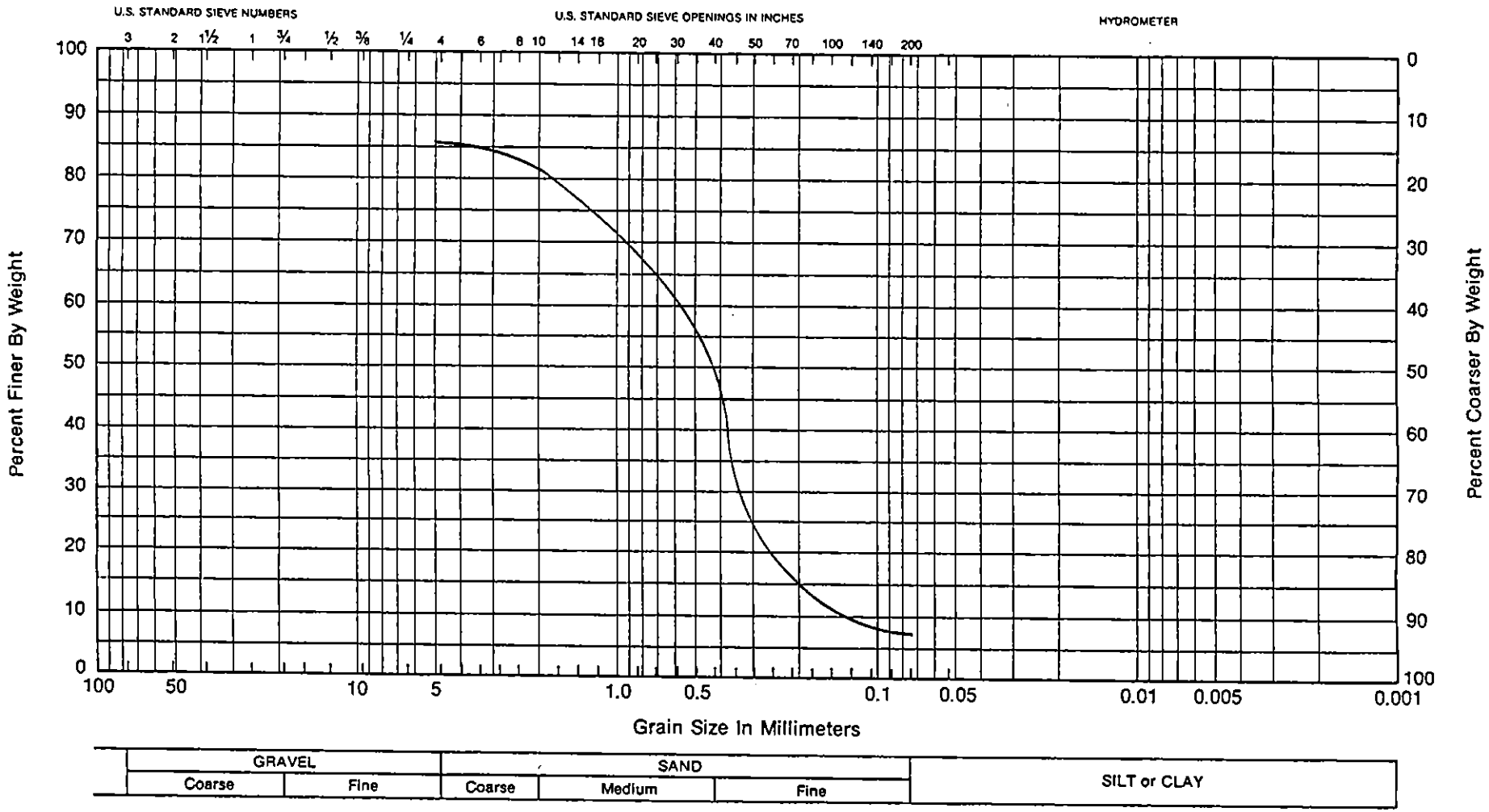
DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-275, S4, 23' - 25'
HVJ 93-312G
GRAY AND TAN SANDY CLAY WITH SILT

GRAIN SIZE CURVES



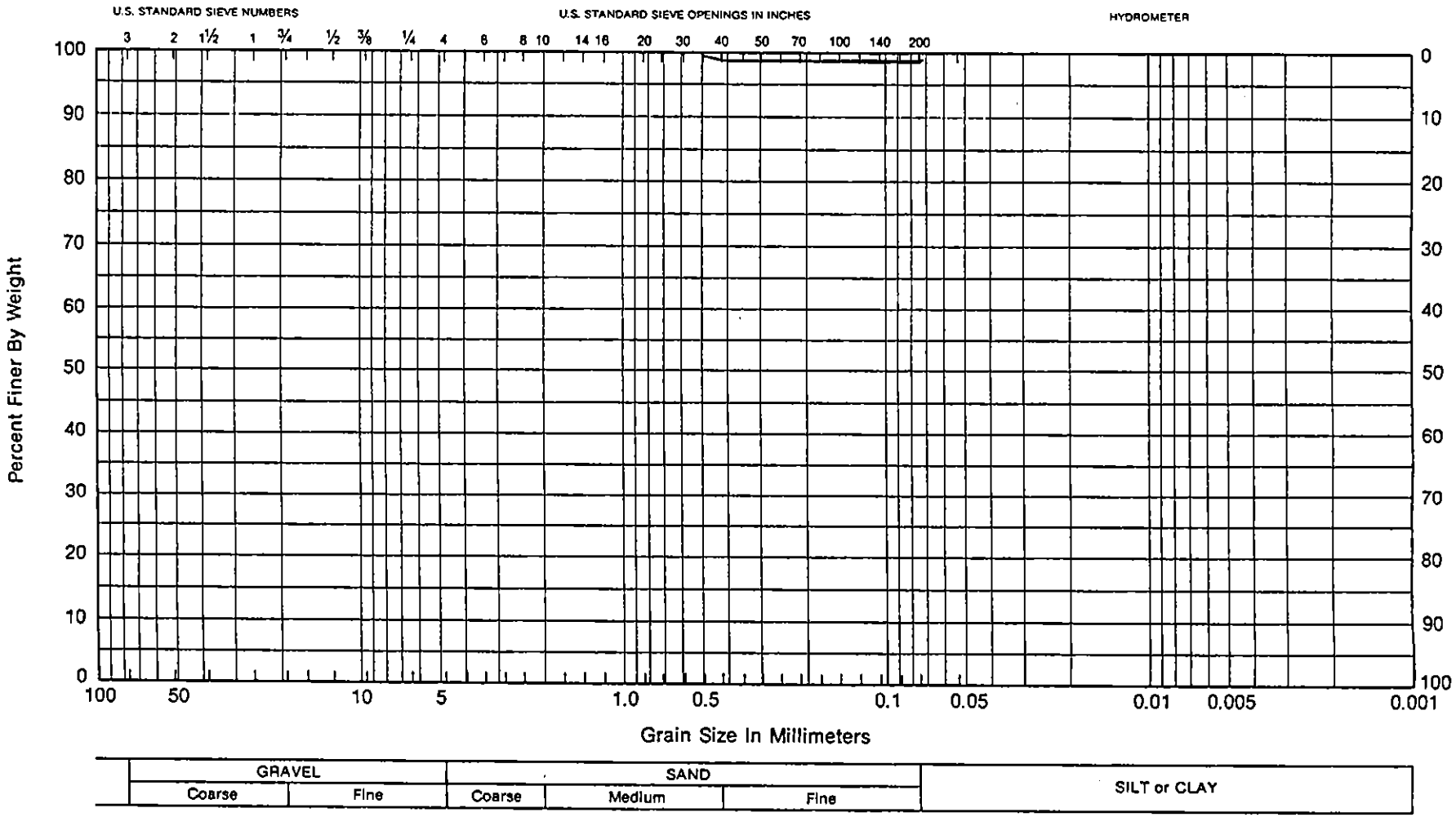
DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-275, S5, 30' - 31.5'
HVJ 93-312G
TAN COARSE SAND WITH GRAVEL

GRAIN SIZE CURVES



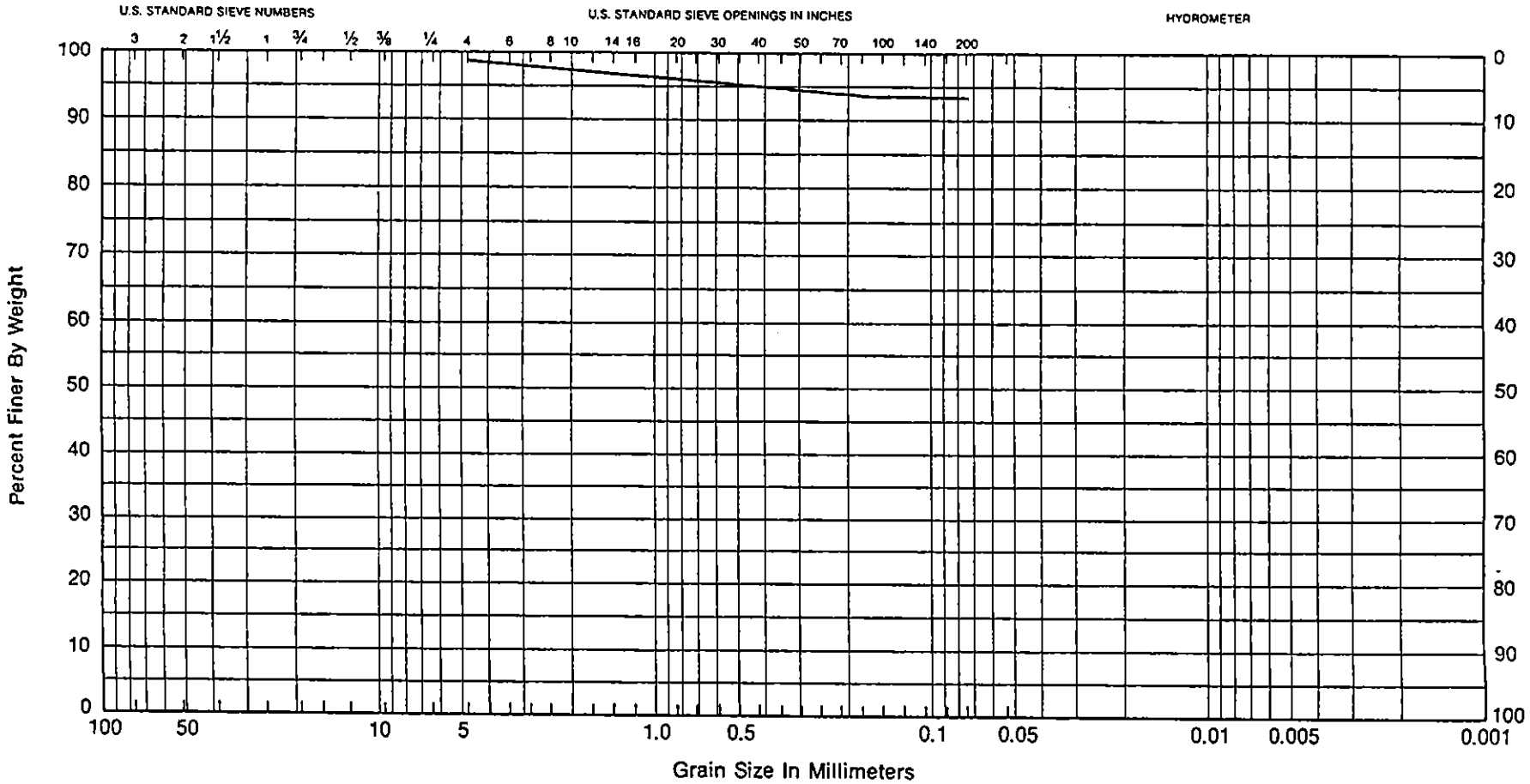
DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-275, S6, 37' - 38.5'
HVJ 93-312G
TAN AND GRAY COARSE SAND
WITH GRAVEL AND CLAY CLUMPS

GRAIN SIZE CURVES



DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-275, S7, 44' - 45.5'
HVJ 93-312G
BROWN AND GRAY CLAY WITH SILT
SILT POCKETS AND FERROUS NODULES

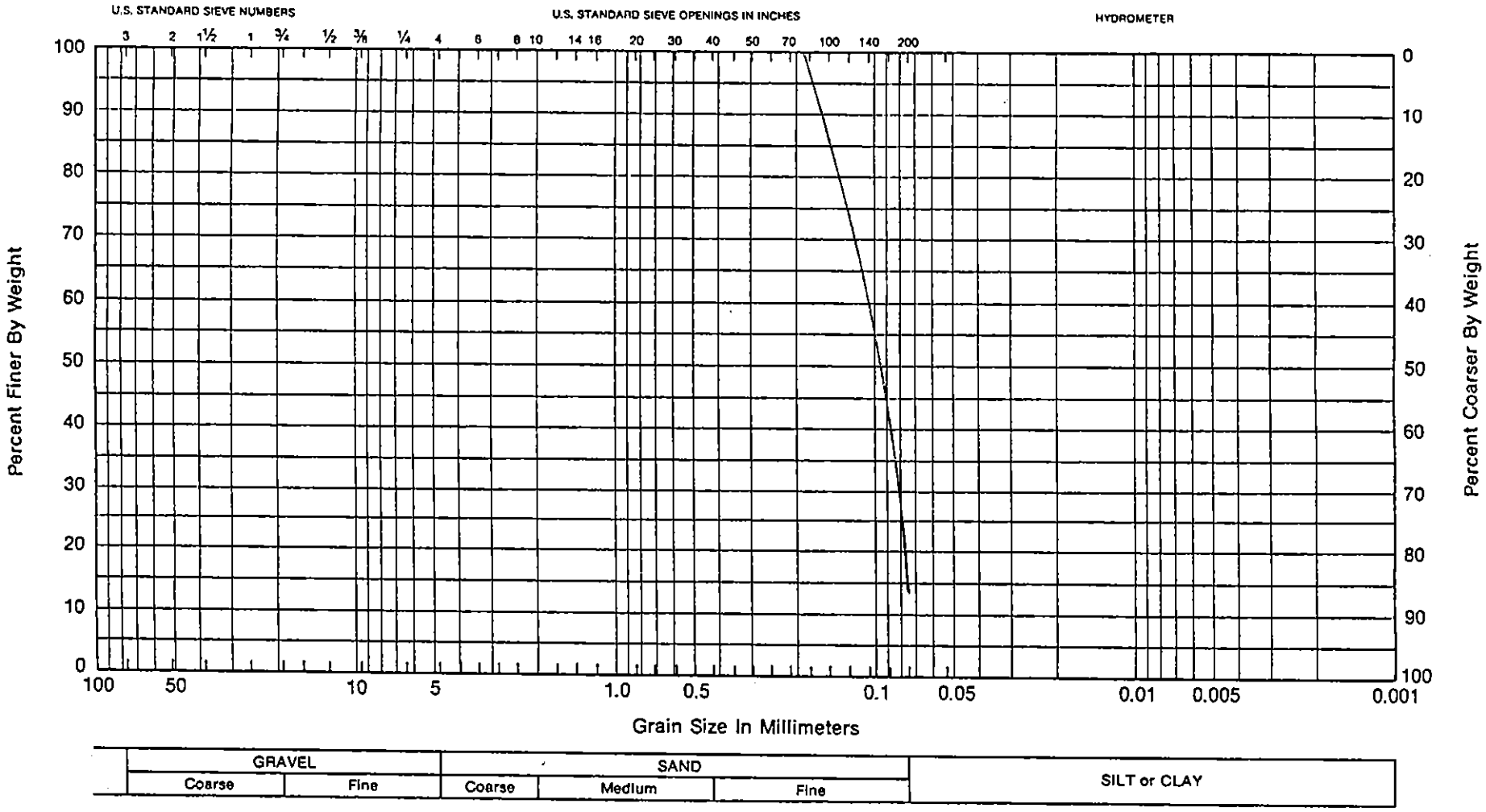
GRAIN SIZE CURVES



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

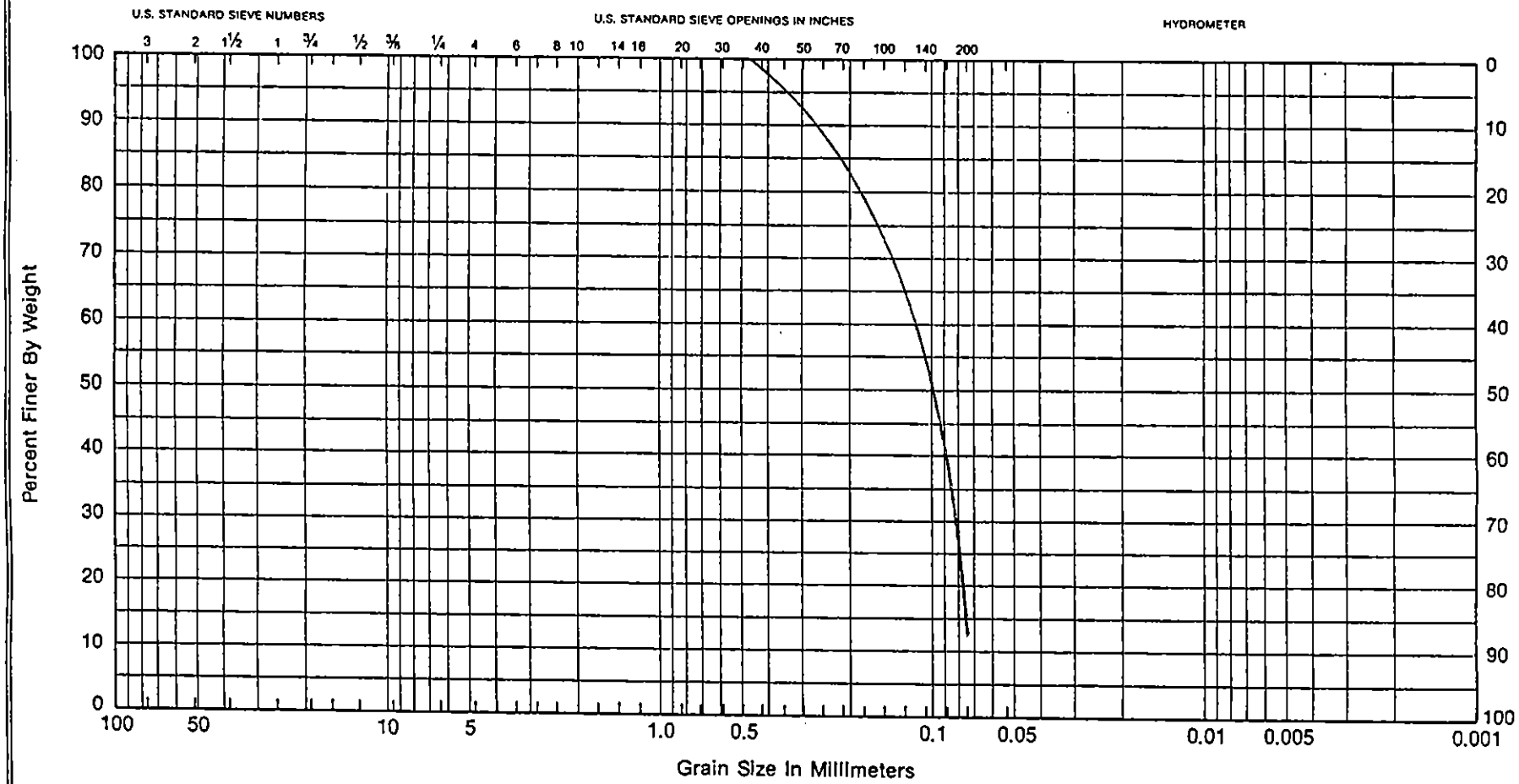
DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-275, S9, 48' - 50'
HVJ 93-312G
REDDISH BROWN CLAY WITH SILT AND GRAVEL

GRAIN SIZE CURVES



DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-275, S12, 59' - 60.5'
HVJ 93-312G
GRAY SILTY SAND WITH CLAY POCKETS

GRAIN SIZE CURVES



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-275, S13, 66' - 67.5'
HVJ 93-312G
GRAY AND TAN SILTY SAND
WITH SANDY CLAY CLUMPS