FIELD BORING LOG

Project Name: TRINITY RIVER - WALLISVILLE, TEXAS		Project No. 93-312 G
Location: TRINITY RIVER		Client: ARMY CORP OF ENGINEERS
Boring No.: 93-272	Date Started: 3-11-94	El. of River: +3.028
Water Depth: 15.3'	Date Completed: 3-11-94	Easting: 3,353,457.25
Time Started: 7:30 AM	Northing: 744,289.06	Driller: PAT. STEVENS
Time Completed: 10:30 AM	Logger: D. CANADA	Depth to caving:
Rig: MOBIL B-61	Weather: PARTLY CLOUDY 50° DEGREES	

DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLES	SOIL DESCRIPTION	SOIL CLASSIFICATION	BLOWS/6"	BLOWS/6"	BLOWS/6"	TORVANE	HAND PENETROMETER (TSF)
0	S1	J		LT. TA. SA. w/SHELL	SP					
5										
	S2	P	X	VERY DENSE LT. TA. SA. w/ SHELL ROCKS	SP	9	26	36		
10										
15	S3	P	X	VERY DENSE LT. TA. GR. SA. w/SHELL	SP	9	22	28		
20										
	S4	P	X	MED. DENSE LT. TA. GR. SA	SP	3	4	9		
25										
30	S5	P	X	LOOSE LT. TA. SA	SP	3	4	5		

FIELD BORING LOG

Boring No.: 93-272

DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLES	SOIL DESCRIPTION	SOIL CLASSIFICATION	BLOWS/6"	BLOWS/6"	BLOWS/6"	TORVANE (CSF)	HAND PENETROMETER (TSF)
30										
35	S6	P	X	MED. DENSE LT. TA SA	SP	8	10	12		
40										
	S7	P	X	MED. DENSE LT. TA SA w/ Rocks, gravel	SP	7	8	9		
45										
50	S8	P	X	v. stiff LT. TA. GR. ~~SI.~~ CL	CH ~~CH~~	7	9	11		
	S9	J		stiff ~~LT.~~ TA. GR ~~SI.~~ CL	CH ~~CL~~				2.0	
	S10	P	X	medium stiff ~~LOOSE~~ LT. TA. GR. SA. CL, w/ si & gravel	CL ~~SC~~	3	4	5		
55										
60	S11	P	X	v/ stiff ~~MED. DENSE~~ LT. GR. TA. SA. CL	CL ~~SC~~	8	11	13		
65										
	S12	P	X	v/ stiff ~~VERY DENSE~~ LT. GR. TA SA. CL, w/ SI PKTS	CL ~~SC~~	15	35	50/4		
70										

FIELD BORING LOG

Boring No.: 93-272

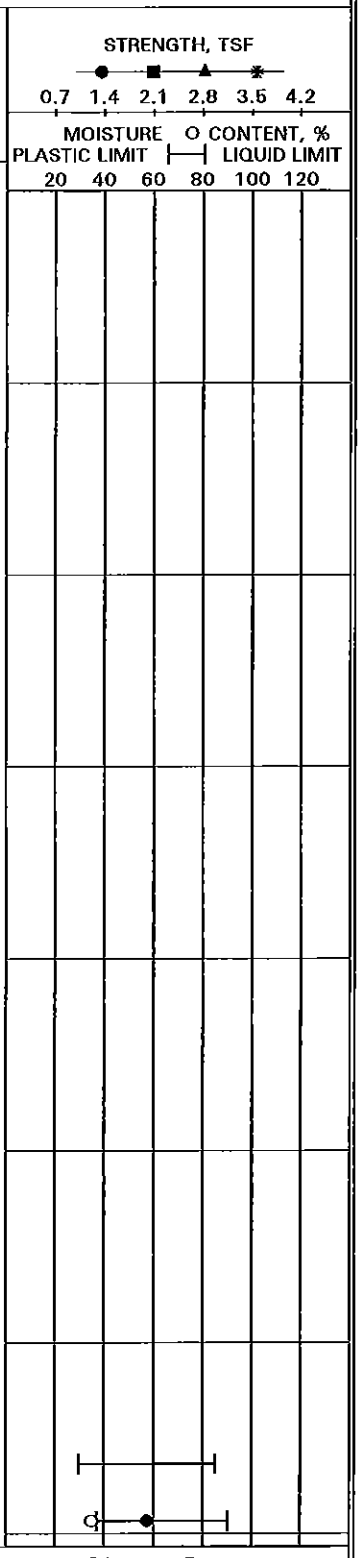
DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLES	SOIL DESCRIPTION	SOIL CLASSIFICATION	BLOWS/6"	BLOWS/6"	BLOWS/6"	TORVANE	HAND PENETROMETER (tsf)
70					CL					
	S13	P	X	VERY ~~DENSE~~ stiff LT. GR. TA SA. CL, w/ Si & SO PKTS	~~SC~~	15	35	50/4		
75										
80										
85										
90										
95										
100										
105										
110										

LOG OF SOIL BORING

Project Name: Trinity River Soil Borings
Project No. 93-312G
Boring No.: 93-272
Mud Line Elevation: -12.27 feet (NGVD)
Completion Depth: 72.5 feet
Water Depth: 15.3 feet

Weather: Partly cloudy
Date: March 11, 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
0		Gray SAND w/ shell		97	95	78	3	1	
-15 / -5									
-20 / 10		very dense 7'-14' w/ gravel below 7'	62	98	94	70	6	6	
-25 / 15		dense, gray and tan below 14'	50	100	98	80	10	6	
-30 / 20									
-35 / 25		Medium dense tan and gray SILTY SAND	13	100	100	95	29	14	
-40 / 30		Loose tan and gray SAND	9	99	99	90	11	6	
-45 / 35		medium dense w/ gravel below 35'	22	96	92	69	6	3	
-50 / 40									
-55 / 45			17	96	90	50	6	3	
-60 / 50		Very stiff brown and gray CLAY w/ slickensides	20	100	100	97	95	94	
		w/ calcareous nodules to 50.5'		100	100	99	97	97	88



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

Plate 4A

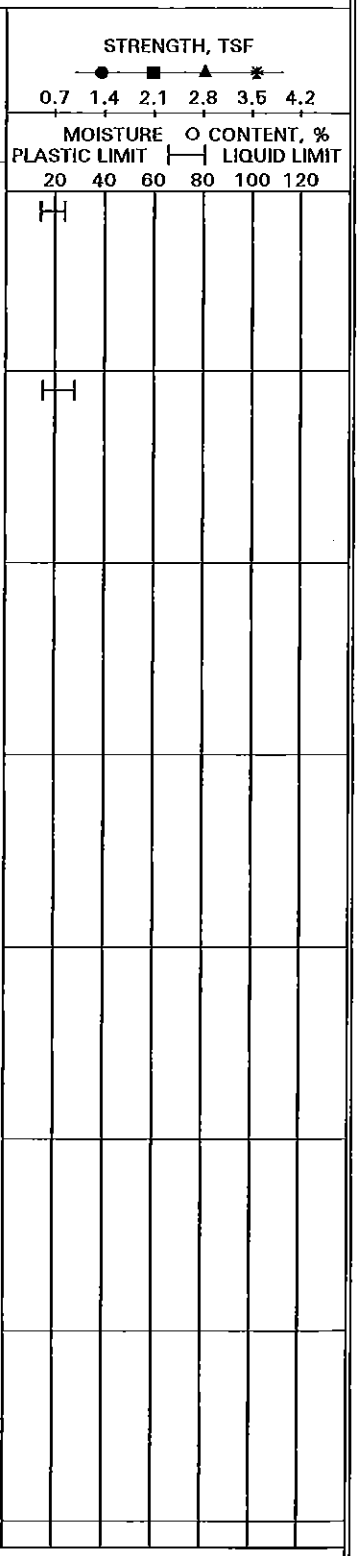
HVJ ASSOCIATES, INC.

LOG OF SOIL BORING

Project Name: Trinity River Soil Borings
Project No. 93-312G
Boring No.: 93-272
Mud Line Elevation: -12.27 feet (NGVD)
Completion Depth: 72.5 feet
Water Depth: 15.3 feet

Weather: Partly cloudy
Date: March 11, 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
55		Stiff to very stiff gray and tan SILTY CLAY w/ sand w/ gravel to 54.5'	9	100	100	99	97	82	
-70									
60		w/ sand partings below 60'	24	100	100	99	98	83	
-75									
65									
-80		Hard gray SANDY CLAY	85/10"	100	100	100	89	55	
70									
		w/ sand pockets below 71'	85/10"	100	100	100	92	54	
75									
-90									
80									
-95									
85									
100									
90									
105									
95									
110									
100									
115									
105									

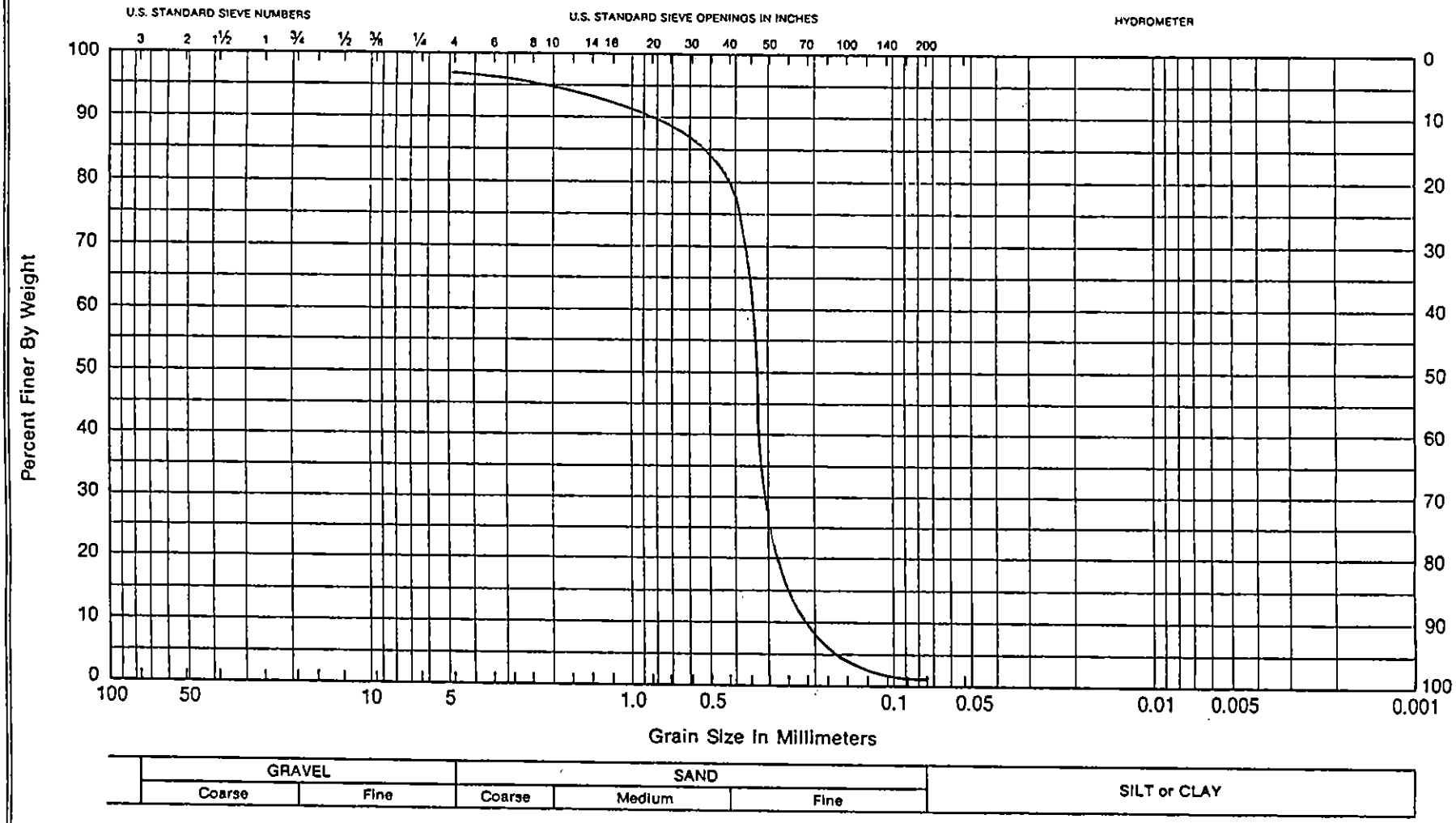


● = Direct Hand Penetrometer ■ = Torvane ▲ = Unconfined Compression ✱ = Shear Stress

Plate 4B

HVJ ASSOCIATES, INC.

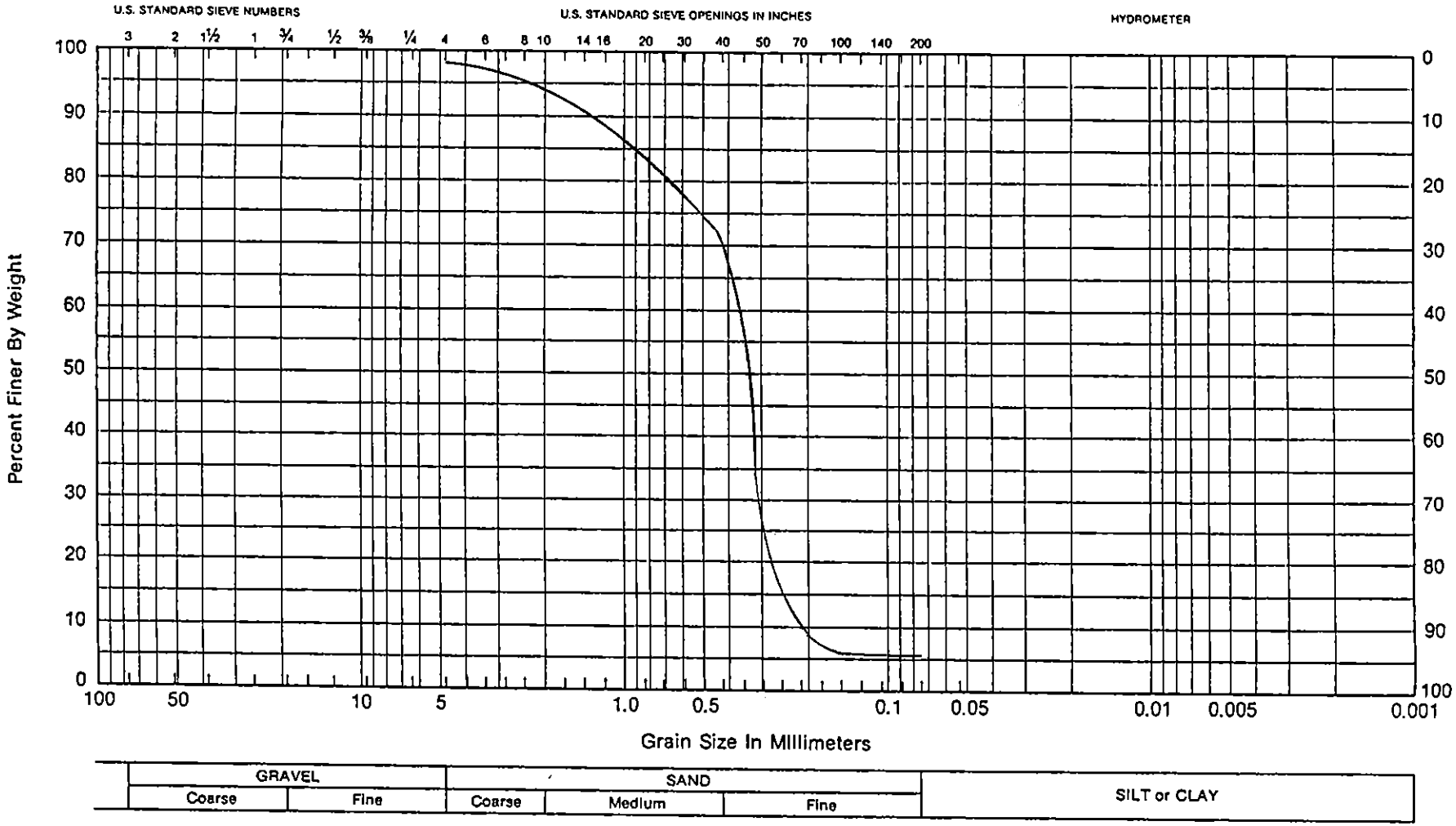
GRAIN SIZE CURVES



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-272, S1, 0' - 2'
HVJ 93-312G
GRAY COARSE SAND WITH SHELL

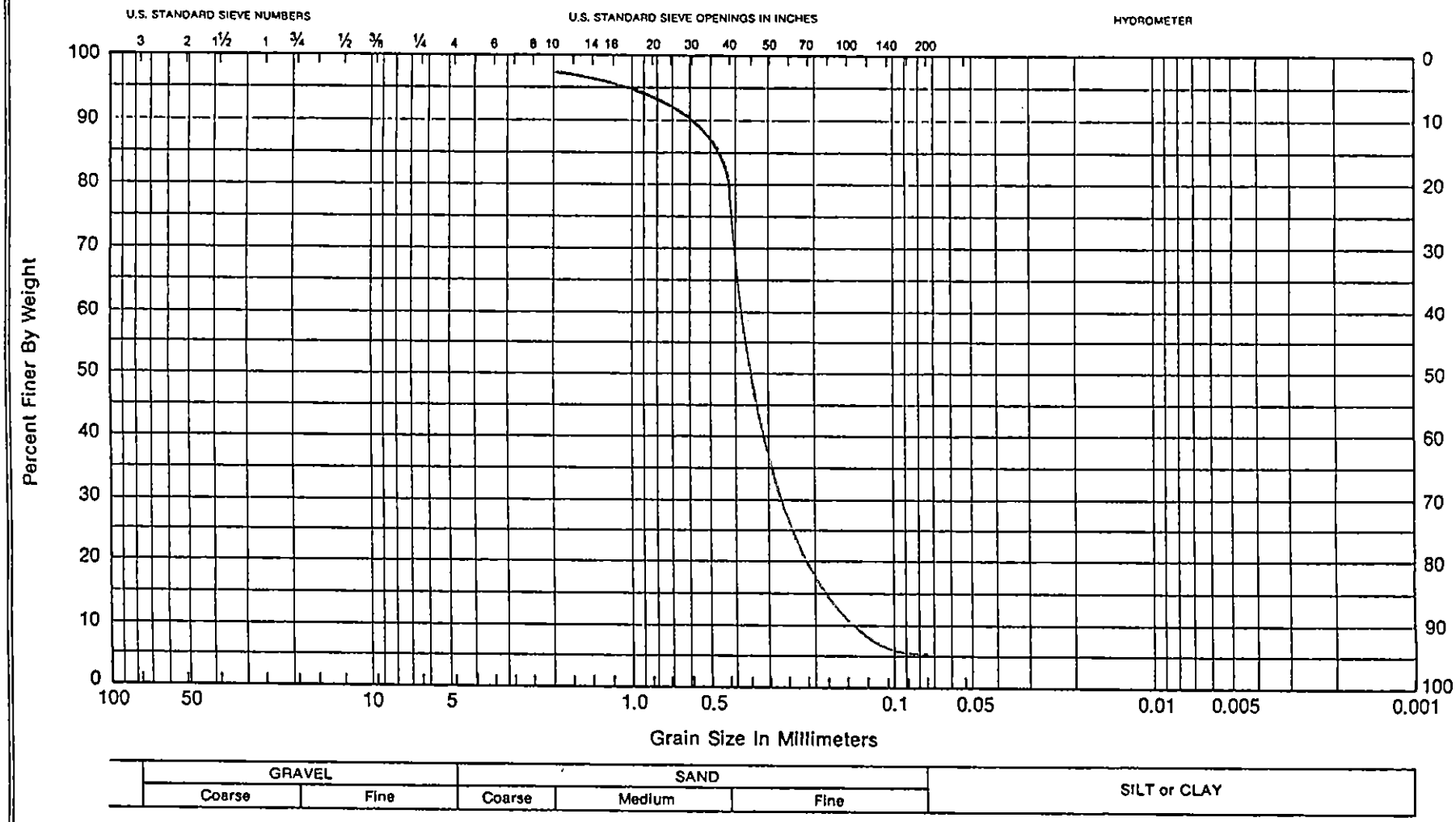
GRAIN SIZE CURVES



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-272, S2, 7' - 8.5'
HVJ 93-312G
GRAY COARSE SAND WITH
SHELL AND GRAVEL

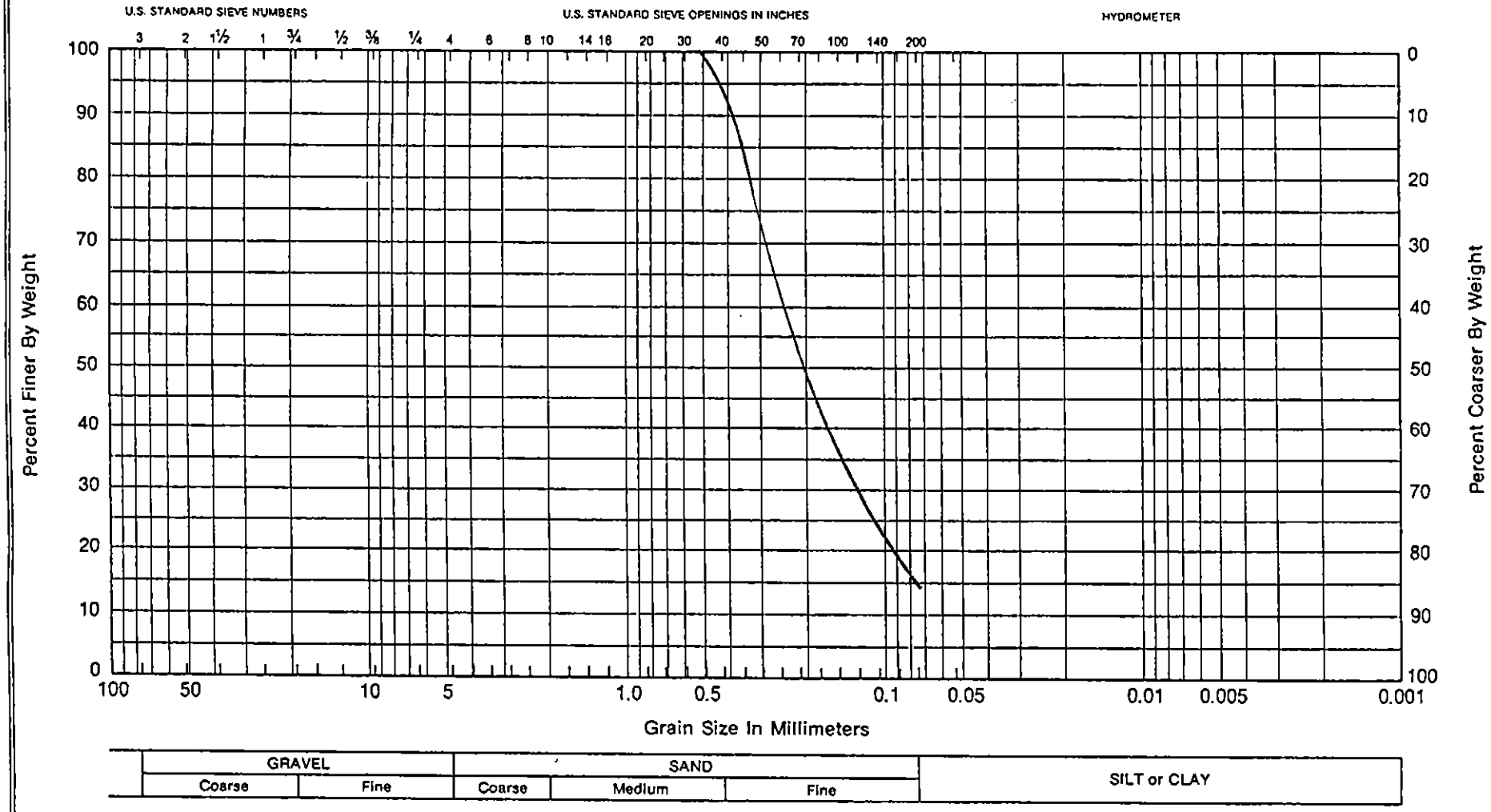
GRAIN SIZE CURVES



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

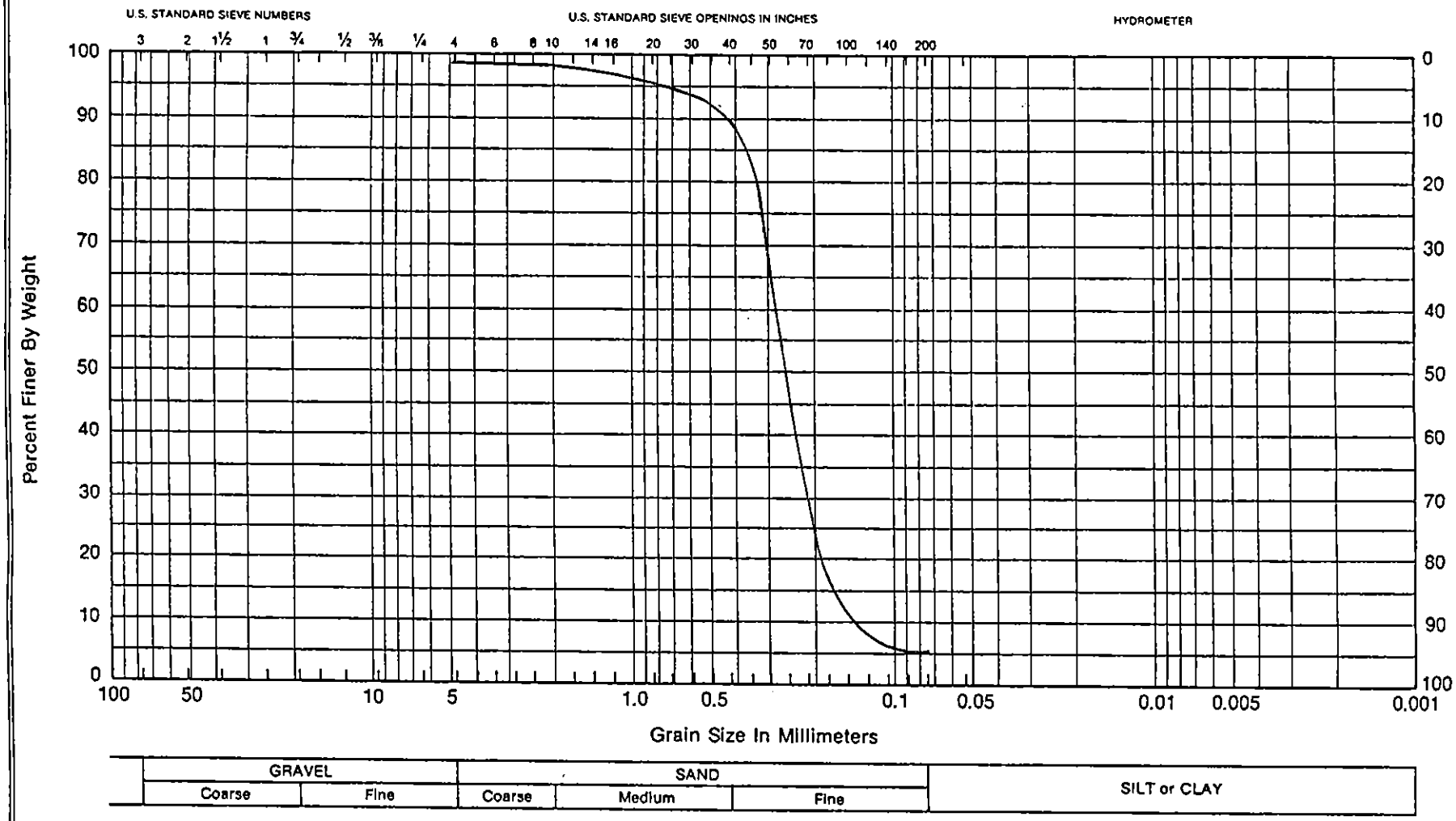
DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-272, S3, 14' - 15.5'
HVJ 93-312G
GRAY AND TAN COARSE SAND
WITH SANDY CLAY CLUMPS,
SHELL, AND GRAVEL

GRAIN SIZE CURVES



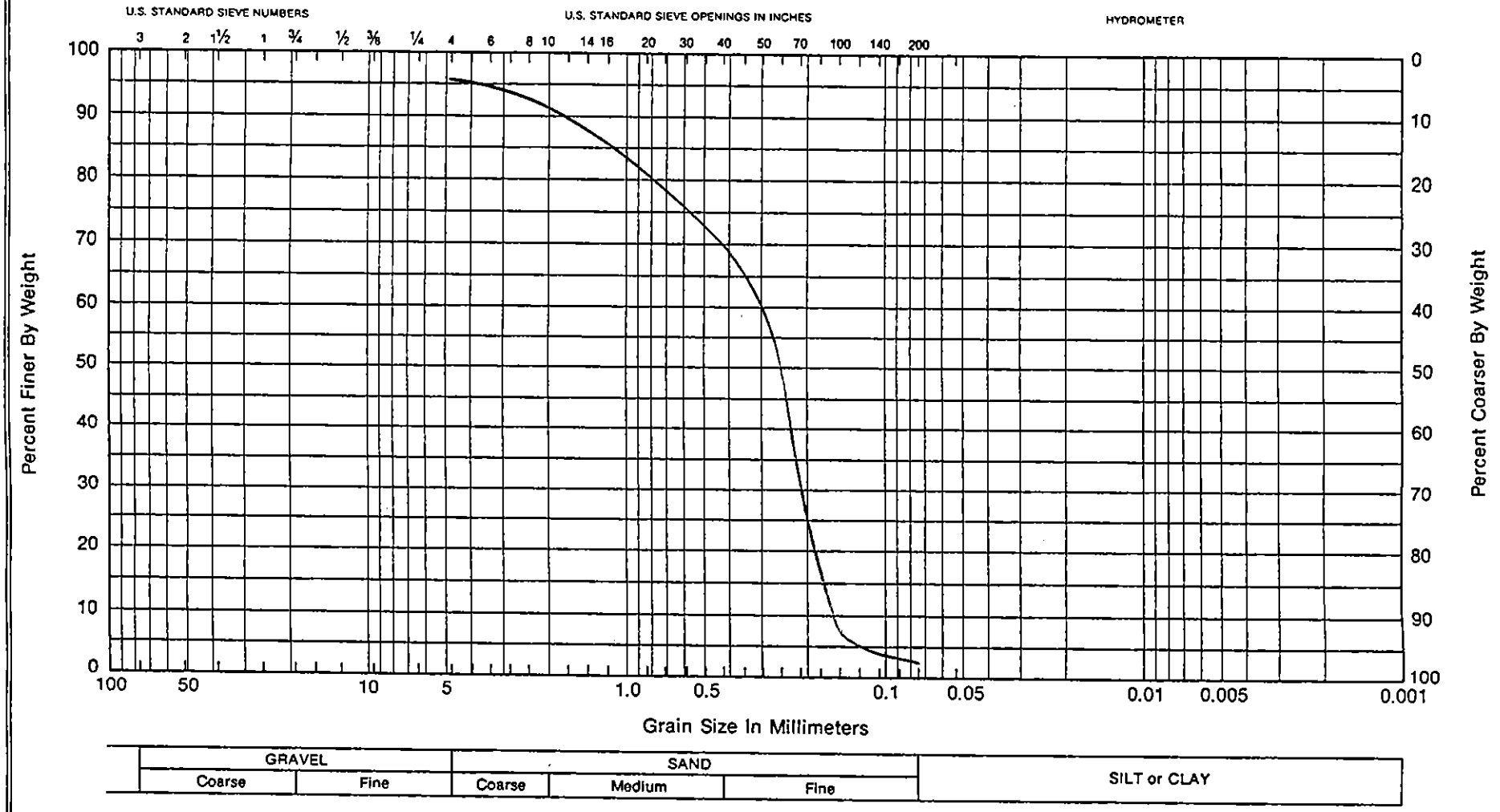
DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-272, S4, 21' - 22.5'
HVJ 93-312G
TAN AND GRAY CLAYEY SAND

GRAIN SIZE CURVES



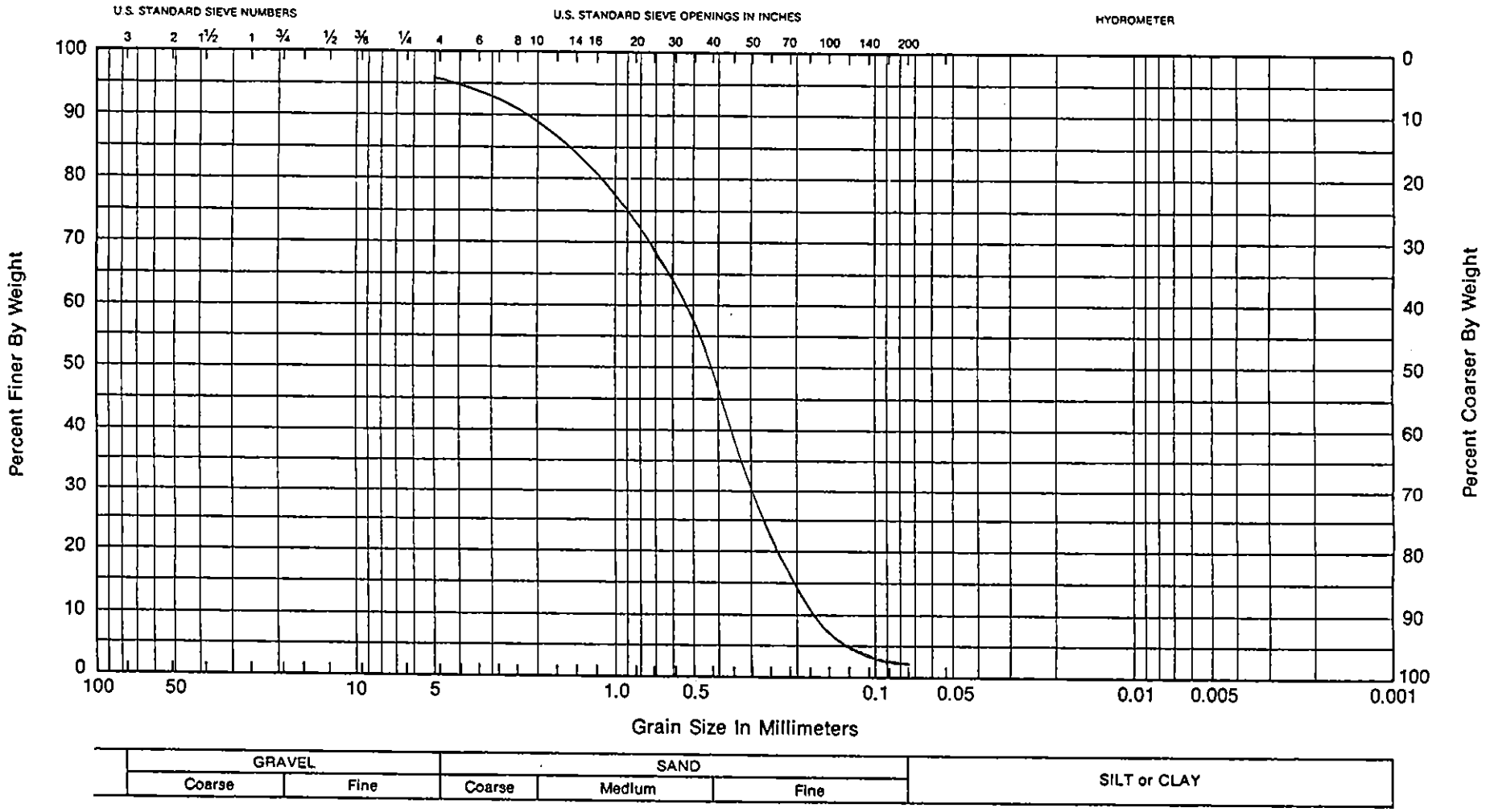
DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-272, S5, 28' - 29.5'
HVJ 93-312G
TAN AND GRAY COARSE SAND

GRAIN SIZE CURVES



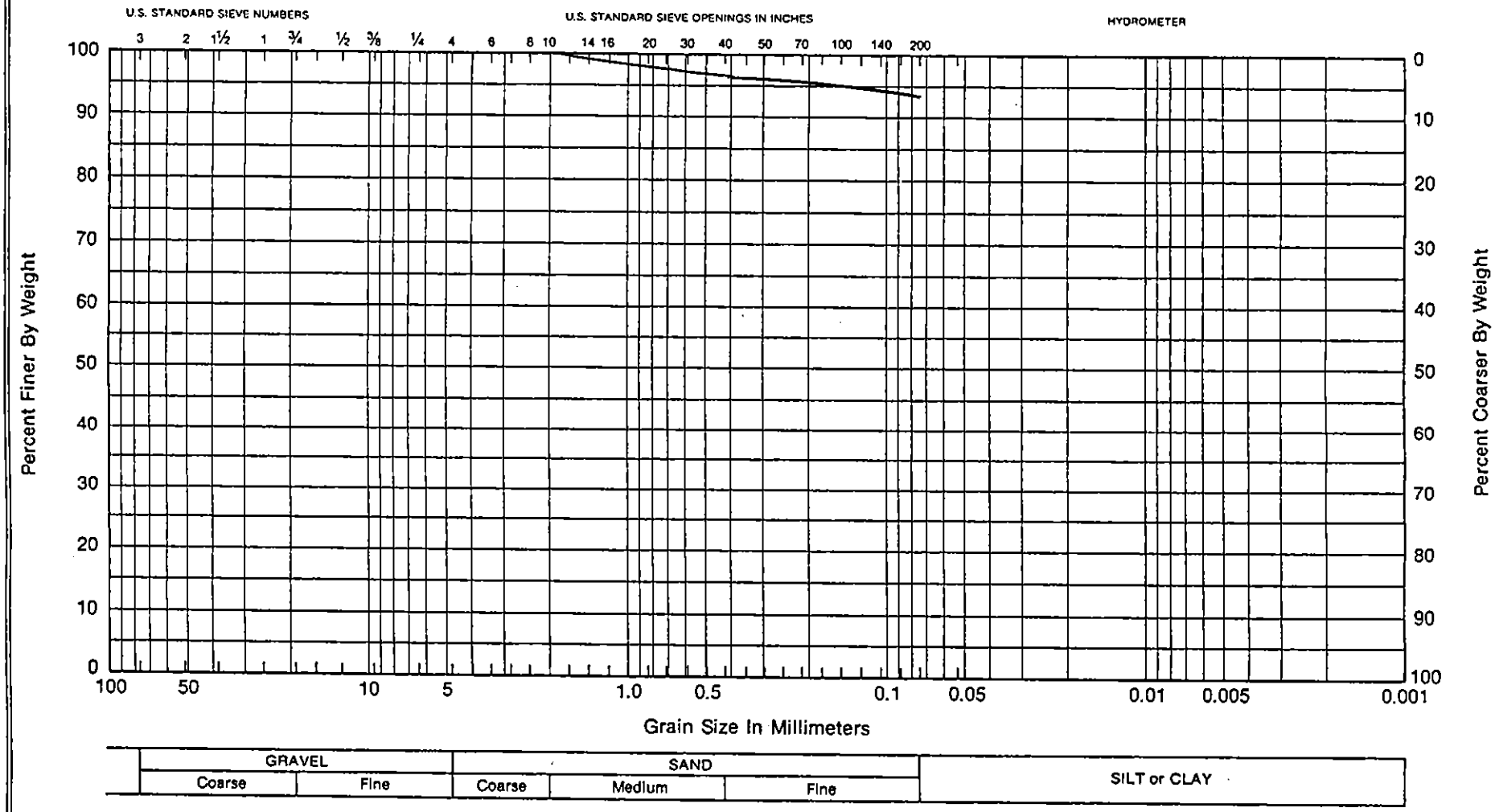
DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-272, S6, 33' - 34.5'
HVJ 93-312G
TAN AND GRAY COARSE SAND
WITH SANDY CLAY CLUMPS
AND GRAVEL

GRAIN SIZE CURVES



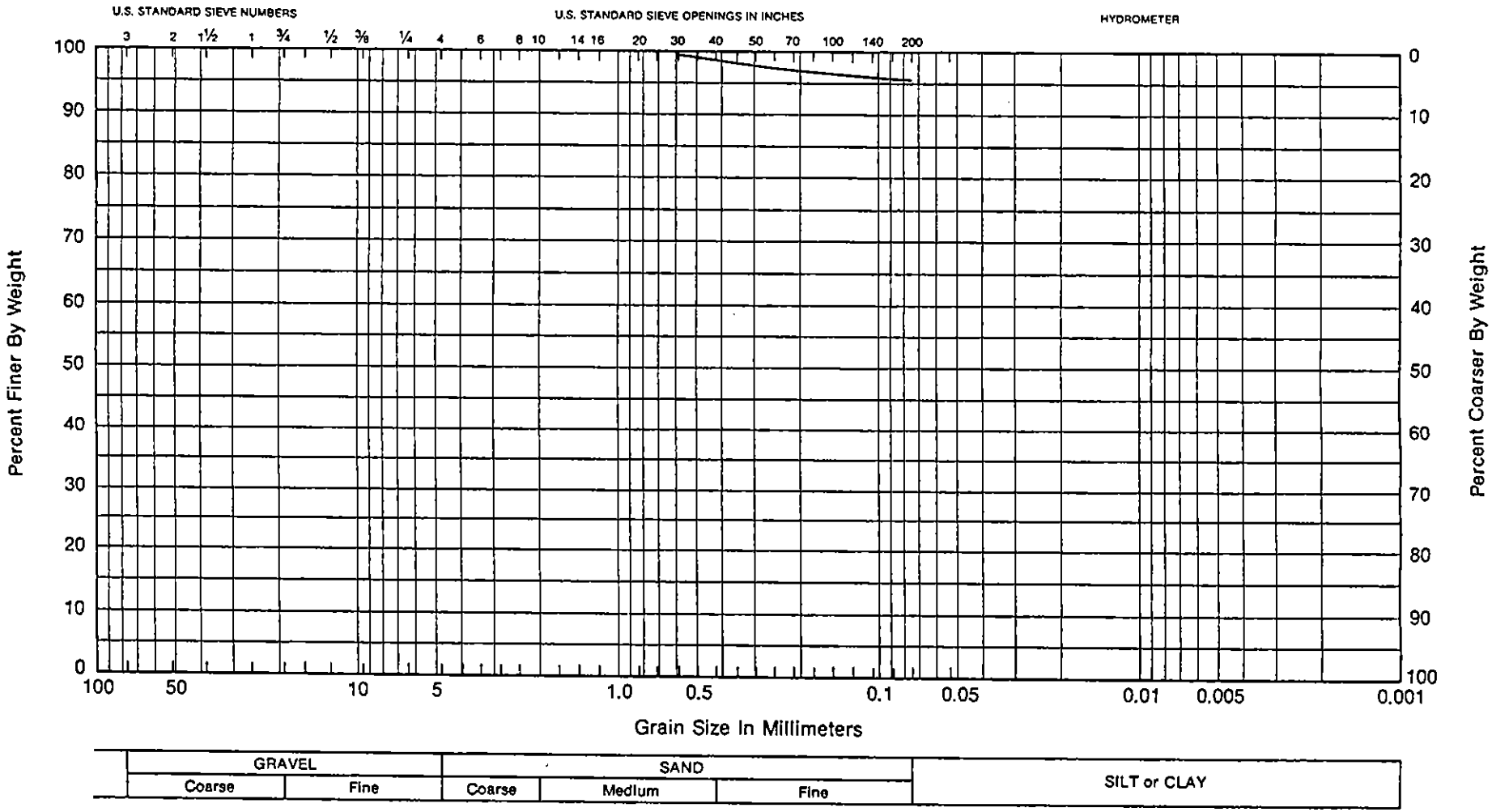
DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-272, S7, 42' - 43.5'
HVJ 93-312G
TAN AND GRAY COARSE SAND WITH
SANDY CLAY CLUMPS AND GRAVEL

GRAIN SIZE CURVES



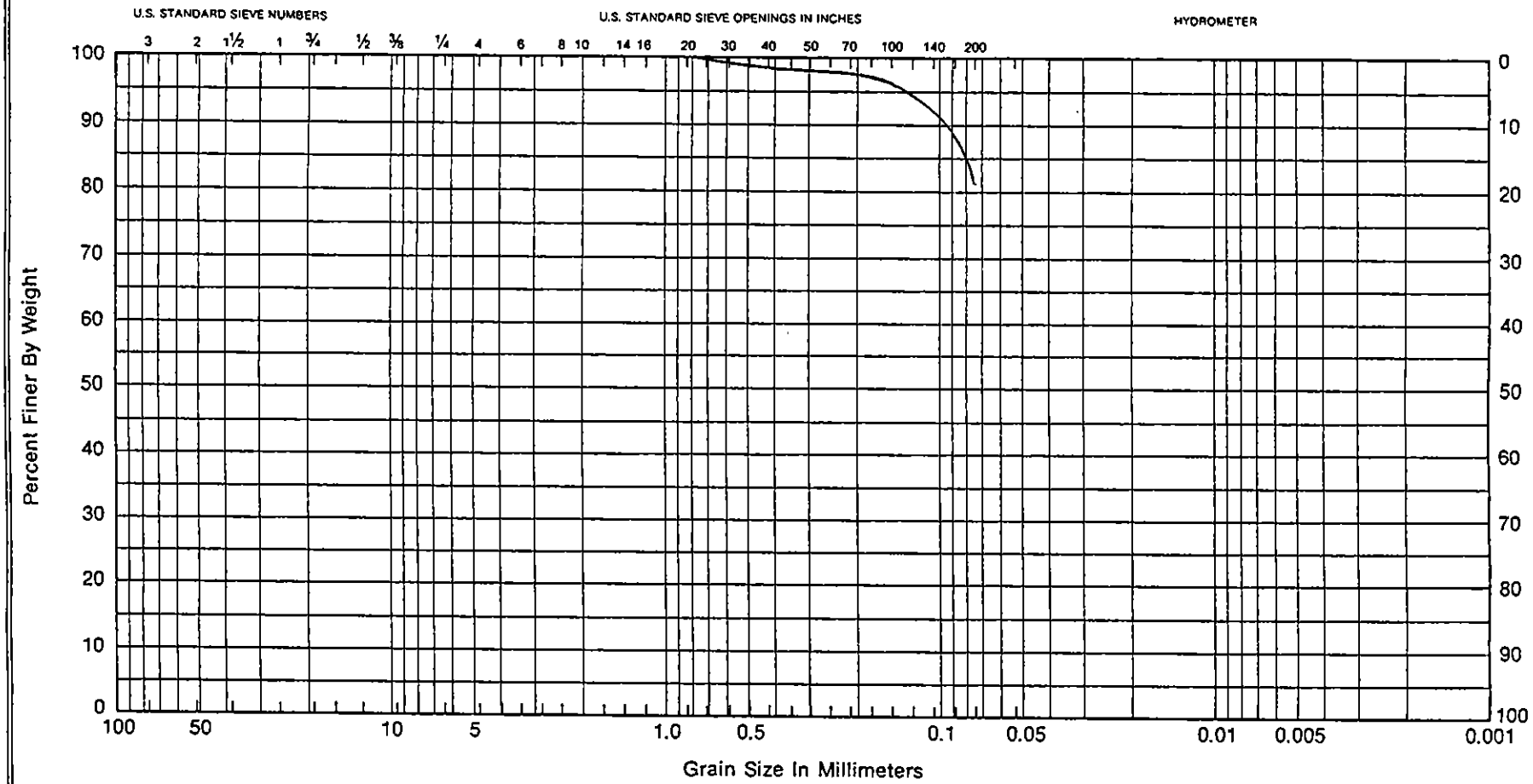
DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-272, S8, 49' - 50.5'
HVJ 93-312G
BROWN AND GRAY CLAY WITH
SILT AND CALCAREOUS NODULES

GRAIN SIZE CURVES



DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-272, S9, 51' - 53'
HVJ 93-312G
BROWN AND GRAY CLAY WITH SILT

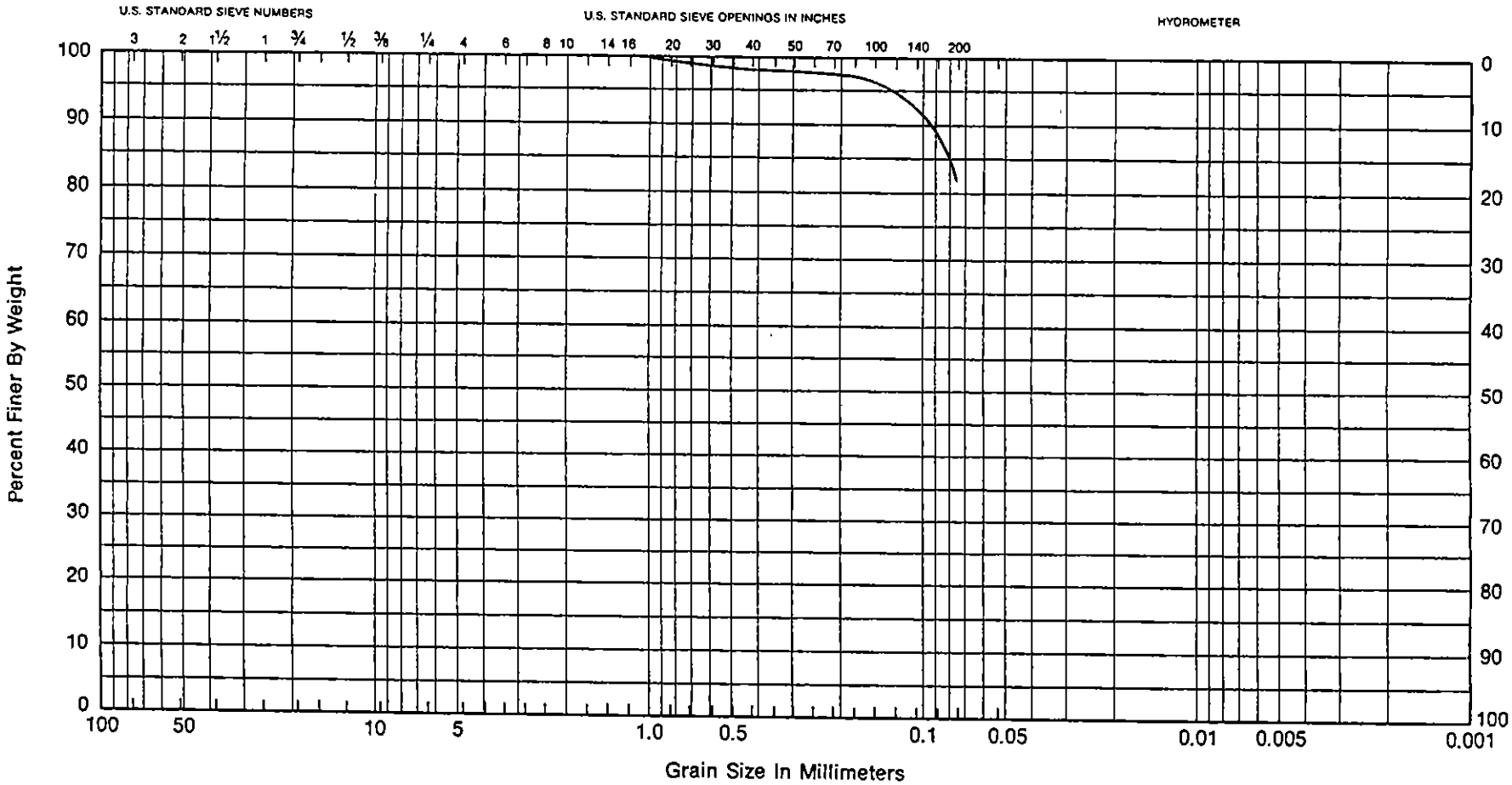
GRAIN SIZE CURVES



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-272, S10, 53' - 54.5'
HVJ 93-312G
GRAY AND TAN SILTY CLAY WITH SAND

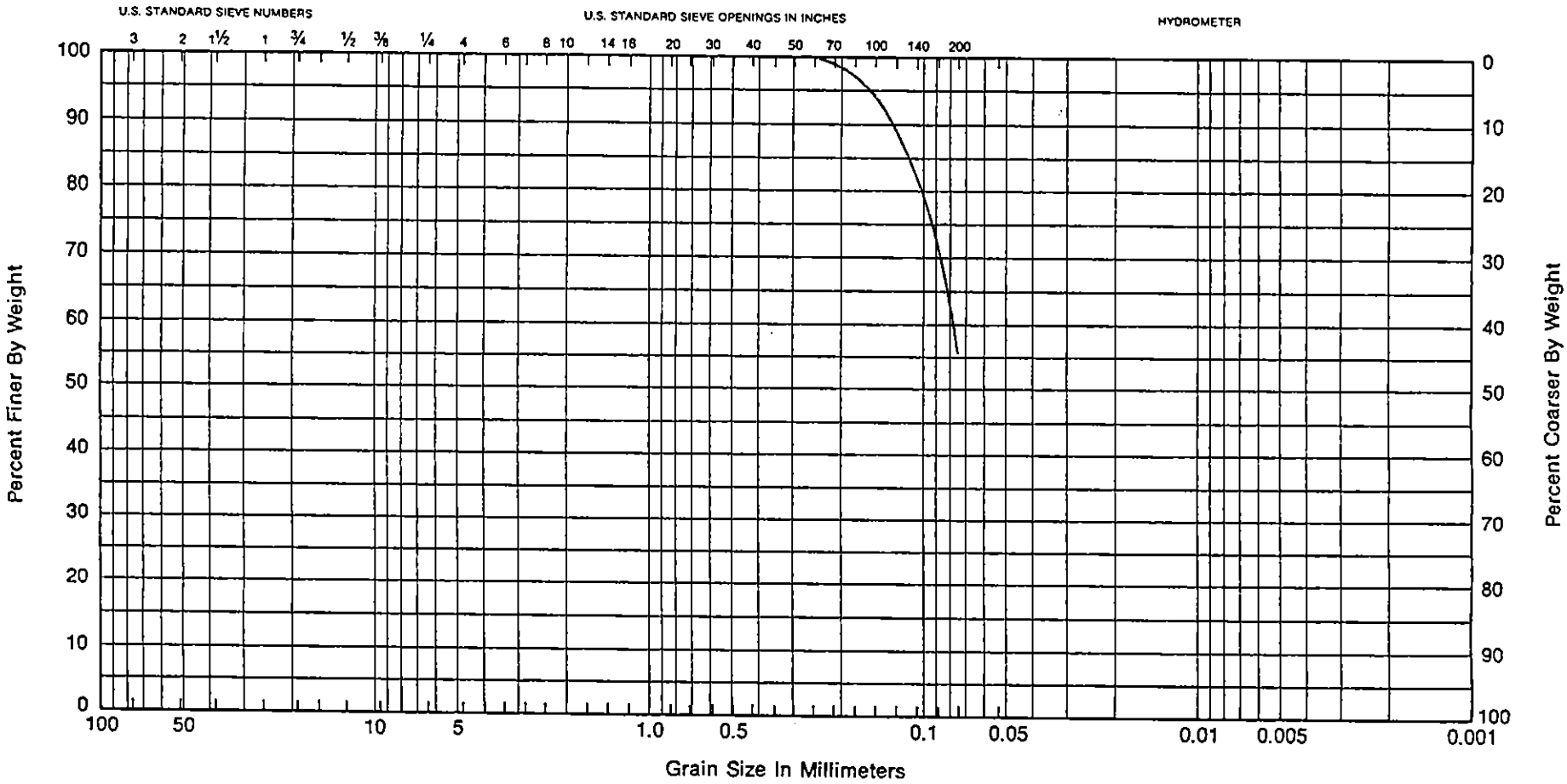
GRAIN SIZE CURVES



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-272, S10, 53' - 54.5'
HVJ 93-312G
GRAY AND TAN SILTY CLAY WITH SAND

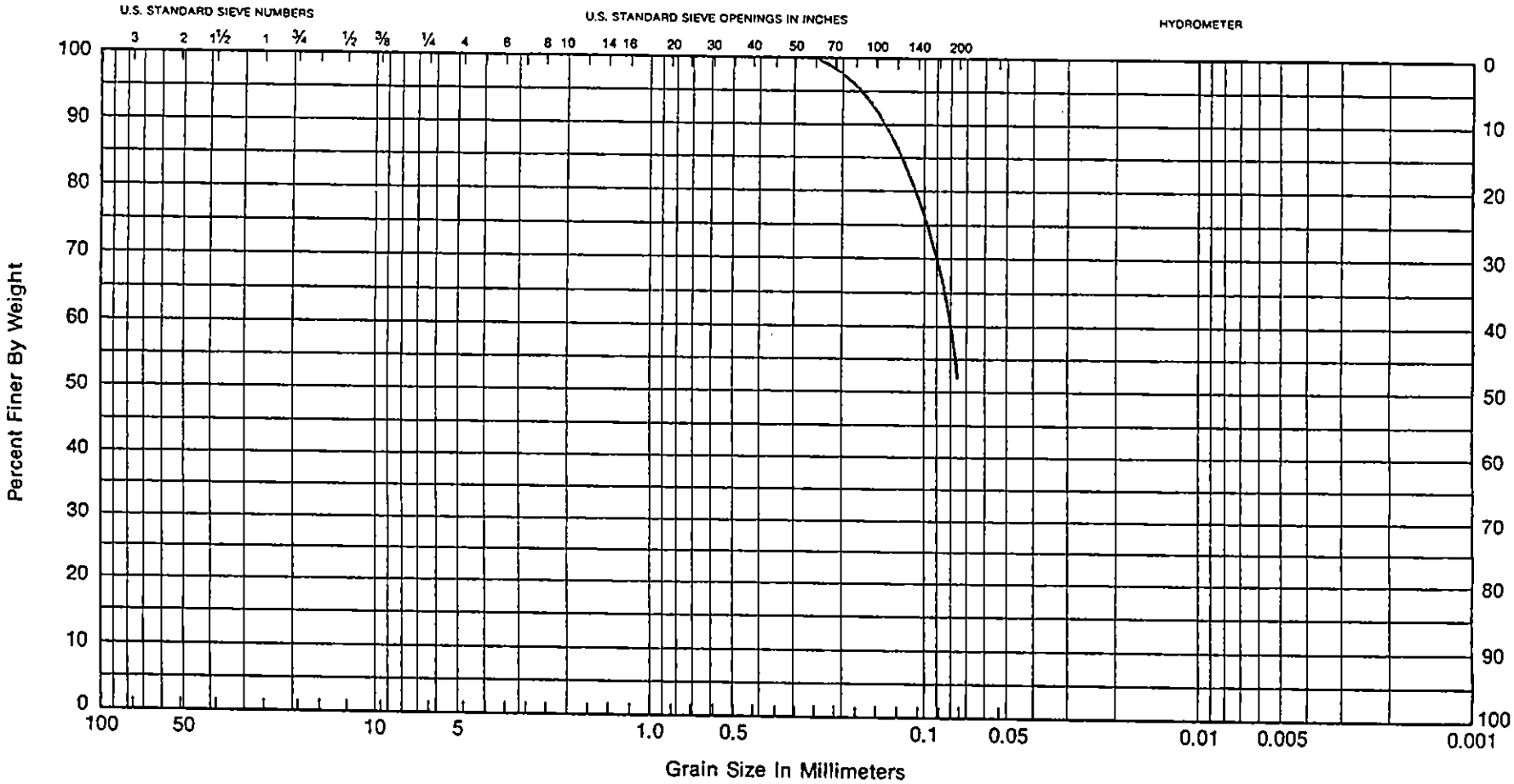
GRAIN SIZE CURVES



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-272, S12, 67' - 68.5'
HVJ 93-312G
GRAY SANDY CLAY WITH SILT

GRAIN SIZE CURVES



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-272, S13, 71' - 72.5'
HVJ 93-312G
GRAY SANDY CLAY WITH SILT
AND SAND POCKETS