FIELD BORING LOG

Project Name: TRINITY RIVER - WALLISVILLE, TEXAS		Project No. 93-312G
Location: TRINITY RIVER		Client: ARMY CORP. OF ENGINEERS
Boring No.: 93.280	Date Started: 3-8-94	El. of River: +3.25
Water Depth: 13.45	Date Completed: 3-8-94	Easting: 3,353,781.09
Time Started: 7:00 AM	Northing: 744,229.07	Driller: PAT STEPHENS
Time Completed: 2:30 PM	Logger: D. CANADA	Depth to caving:
Rig: MOBIL B-61	Weather: CLOUDY & WINDY 80° DEGREES	

DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLES	SOIL DESCRIPTION	SOIL CLASSIFICATION	BLOWS/6"	BLOWS/6"	BLOWS/6"	TORVANE (TSF)	HAND PENETROMETER (TSF)
0	S1	L	////	DK. GRAY. ~~SA~~ Sludge w/ SA	~~SP~~					
	S2	L	///	DK. GR. SA	SP					
5										
10	S3	P	X	MED. DENSE DK. GR. SA w/ SHELL	SP	3	8	16		
15	S4	P	X	Stiff MED. ~~DENSE~~ DK. GR. ~~SA~~ SILT. CL, w/ SA	CL	3	5	7		
20	S5	S		~~SOFT~~ DK. GR. TA. SA ~~CL~~	SP SM				3.7	1.5
25	S6	P	X	MED. DENSE DK. GR. SA.	SP	8	9	9		
30										

FIELD BORING LOG

Boring No.: 93-280

DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLES	SOIL DESCRIPTION	SOIL CLASSIFICATION	BLOWS/6"	BLOWS/6"	BLOWS/6"	TORVANE	HAND PENETROMETER
30										
	S7	P	X	MED. DENSE. LT. TA. GR. SA W/GRAVEL Rocks	SP	7	11	19		
35										
40	S8	P	X	VERY DENSE LT GR. TA. SA W/GRAVEL ROCKS	SP	20	25	37		
45					SP	12	18	22		
	S9	P	X	DENSE LT. GR. TA. SA						
50										
	S10	P	X	DENSE LT GR. TA. SA	SP	12	16	21		
55										
60					CH				0.35	1.5
	S11	J	////	V. STIFF LT. GR. TA. ~~SIL~~. CL W/FER	~~CL~~				~~.72~~	~~3.0~~
			////	NO RECOVERY-SHELBY TUBE WENT DOWN TO 5'.						
65										
70	S12	P	X	MED. DENSE LT GR. TA. SA	SP	4	7	12		

FIELD BORING LOG

Boring No.: 93-280

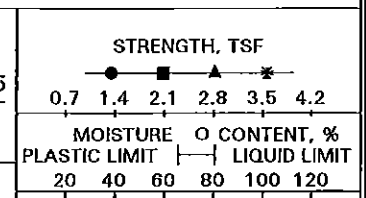
DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLES	SOIL DESCRIPTION	SOIL CLASSIFICATION	BLOWS/6"	BLOWS/6"	BLOWS/6"	TORVANE	HAND PENETROMETER
70										
75	S13	P	X	MED. DENSE LT GR. TA. SA W/ GRAVEL ROCKS	SP	6	8	12		
80										
85										
90										
95										
100										
105										
110										

LOG OF SOIL BORING

Project Name: Trinity River Soil Borings
Project No. 93-312G
Boring No.: 93-280
Ground Line Elevation: -10.2 feet (NGVD)
Completion Depth: 77.5 feet
Water Depth: 13.45 feet

Weather: Cloudy and windy
Date: March 8, 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		Dark gray sludge w/ sand		100	100	99	90	63	
-15 / 5		Gray and tan SAND		100	100	91	3	1	
-20 / 10		medium dense w/ gravel and clay below 9'	24	100	99	84	11	10	
-25 / 15		Stiff dark gray SANDY CLAY w/ sand pockets	12	100	100	98	82	68	
20									
-35 / 25		Medium dense tan and gray SILTY SAND	18	99	99	94	38	18	
-40 / 30		Medium dense tan SAND w/ gravel	30	96	88	40	4	2	
-45 / 35									
-50 / 40		very dense 39'-46' w/ gravel 39'-47.5'	62	97	96	67	10	6	
-55 / 45		dense, tan and gray below 46'	40	95	88	54	11	6	
-60 / 50									



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

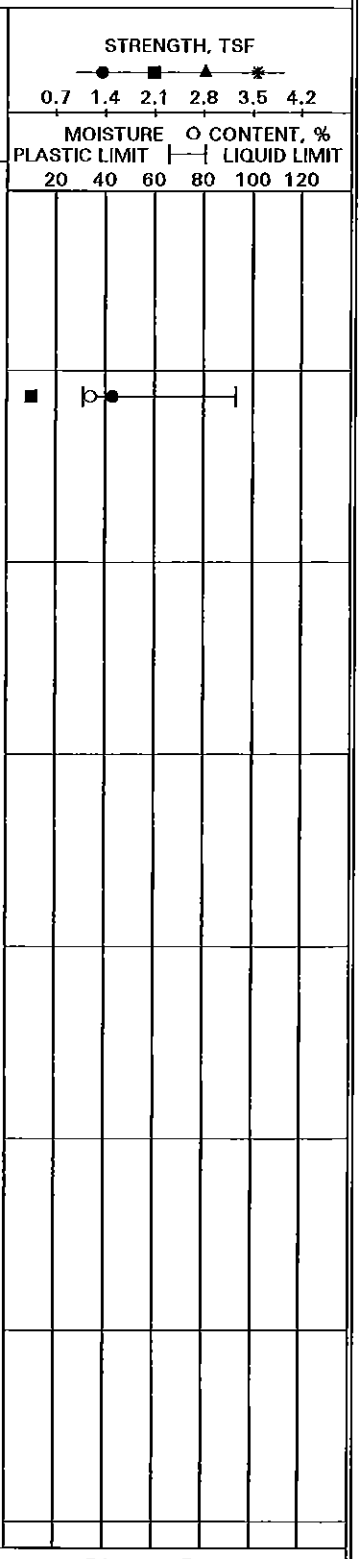
Plate 12A

LOG OF SOIL BORING

Project Name: Trinity River Soil Borings
Project No. 93-312G
Boring No.: 93-280
Ground Line Elevation: -10.2 feet (NGVD)
Completion Depth: 77.5 feet
Water Depth: 13.45 feet

Weather: Cloudy and windy
Date: March 8, 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
-65 — 55			37	100	98	69	12	3	
-70 — 60		Very stiff reddish brown and gray CLAY w/ silt, ferrous nodules, gravel, and slickensides		100	99	94	92	91	
-75 — 65									
-80 — 70		Medium dense tan and gray SAND w/ gravel	19	99	94	54	8	6	
-85 — 75			20	100	94	53	4	3	
-90 — 80									
-95 — 85									
100 — 90									
105 — 95									
110 — 100									
105									

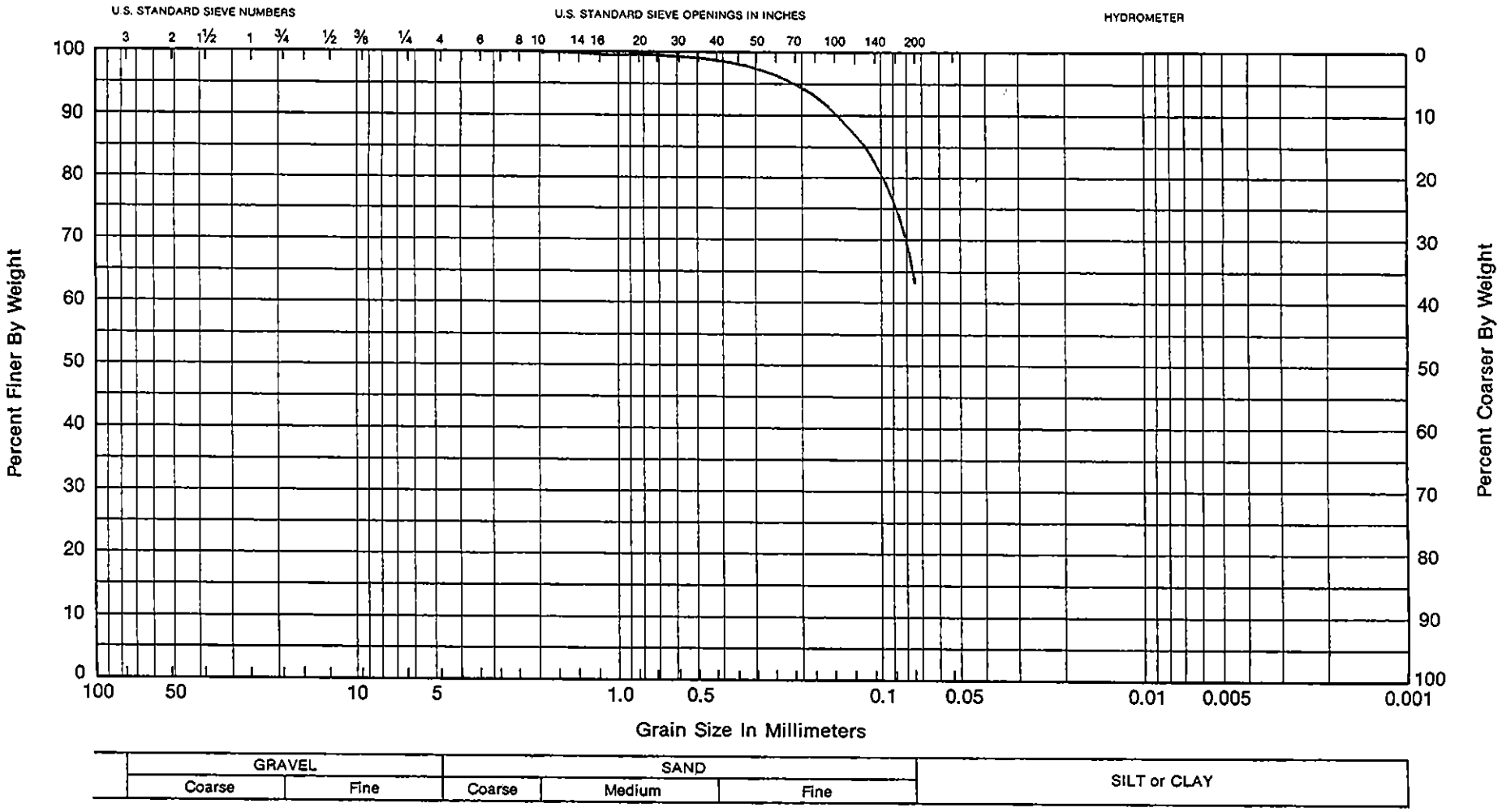


● = Direct Hand Penetrometer ■ = Torvane ▲ = Unconfined Compression ✱ = Shear Stress

Plate 12B

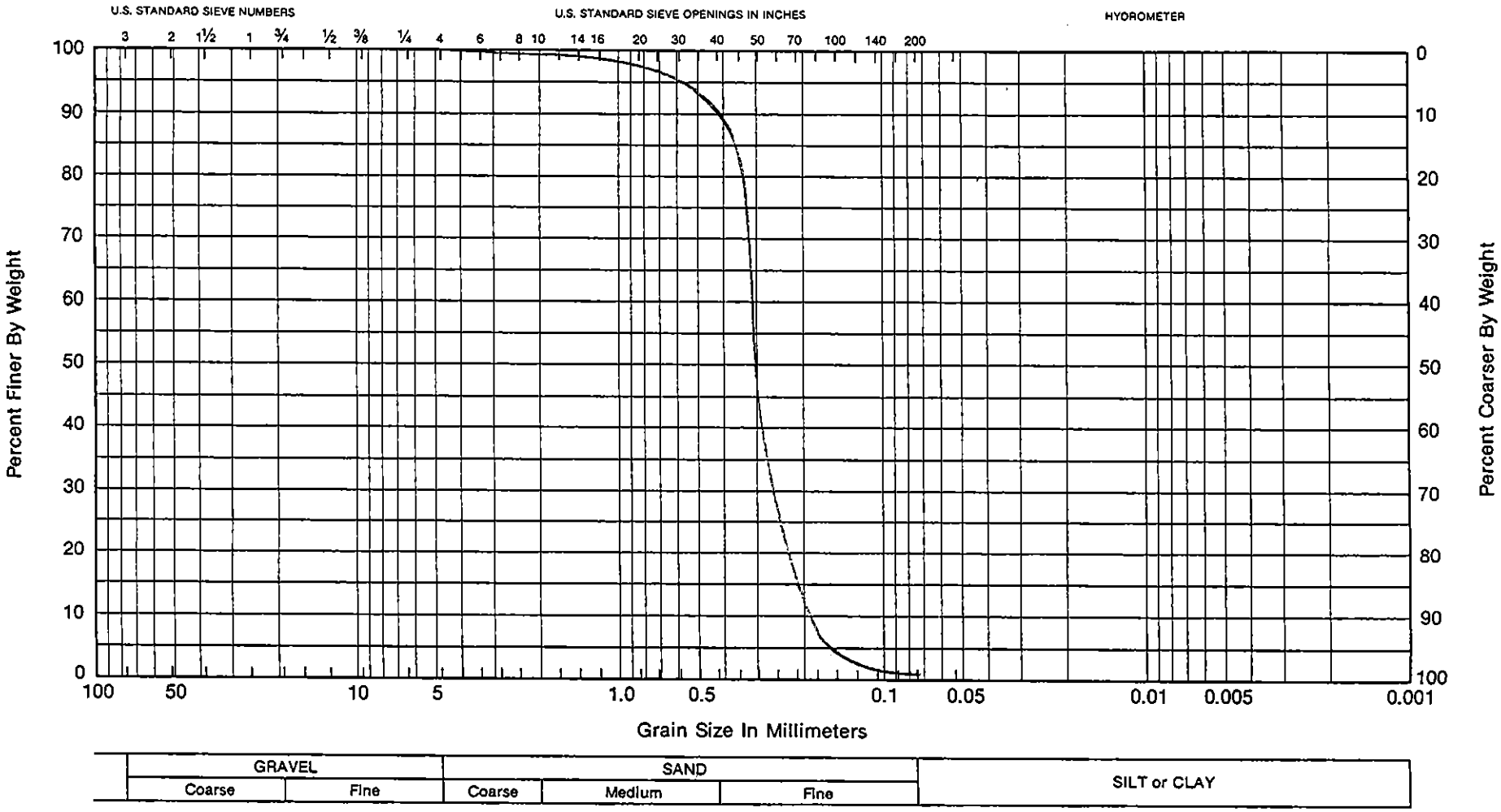
HVJ ASSOCIATES, INC.

GRAIN SIZE CURVES



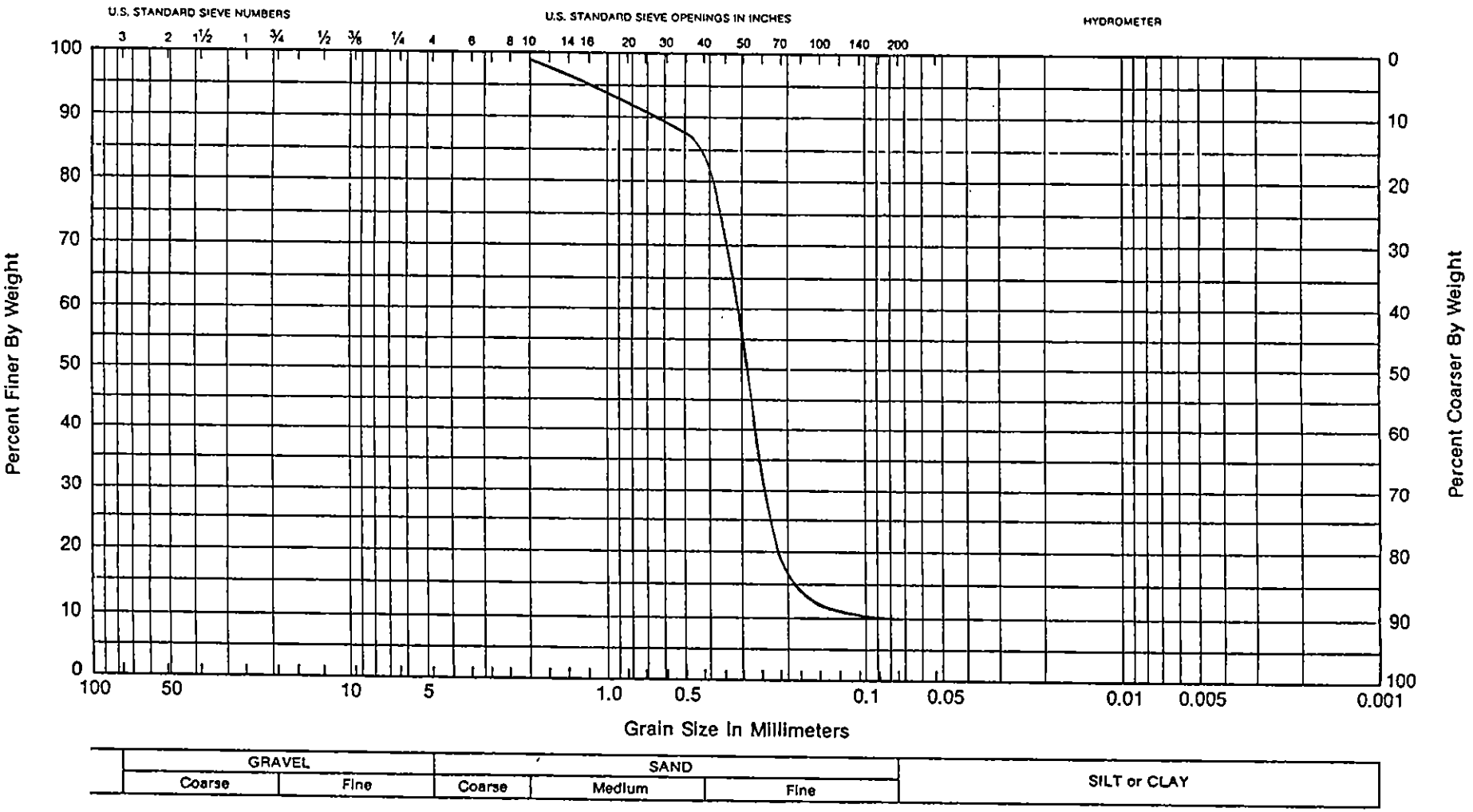
DACW 94-64-R-0011
WALLISVILLE RESERVOIR
93-280, S1, 0' - 2'
HVJ 93-312G
DARK GRAY SLUDGE WITH SAND

GRAIN SIZE CURVES



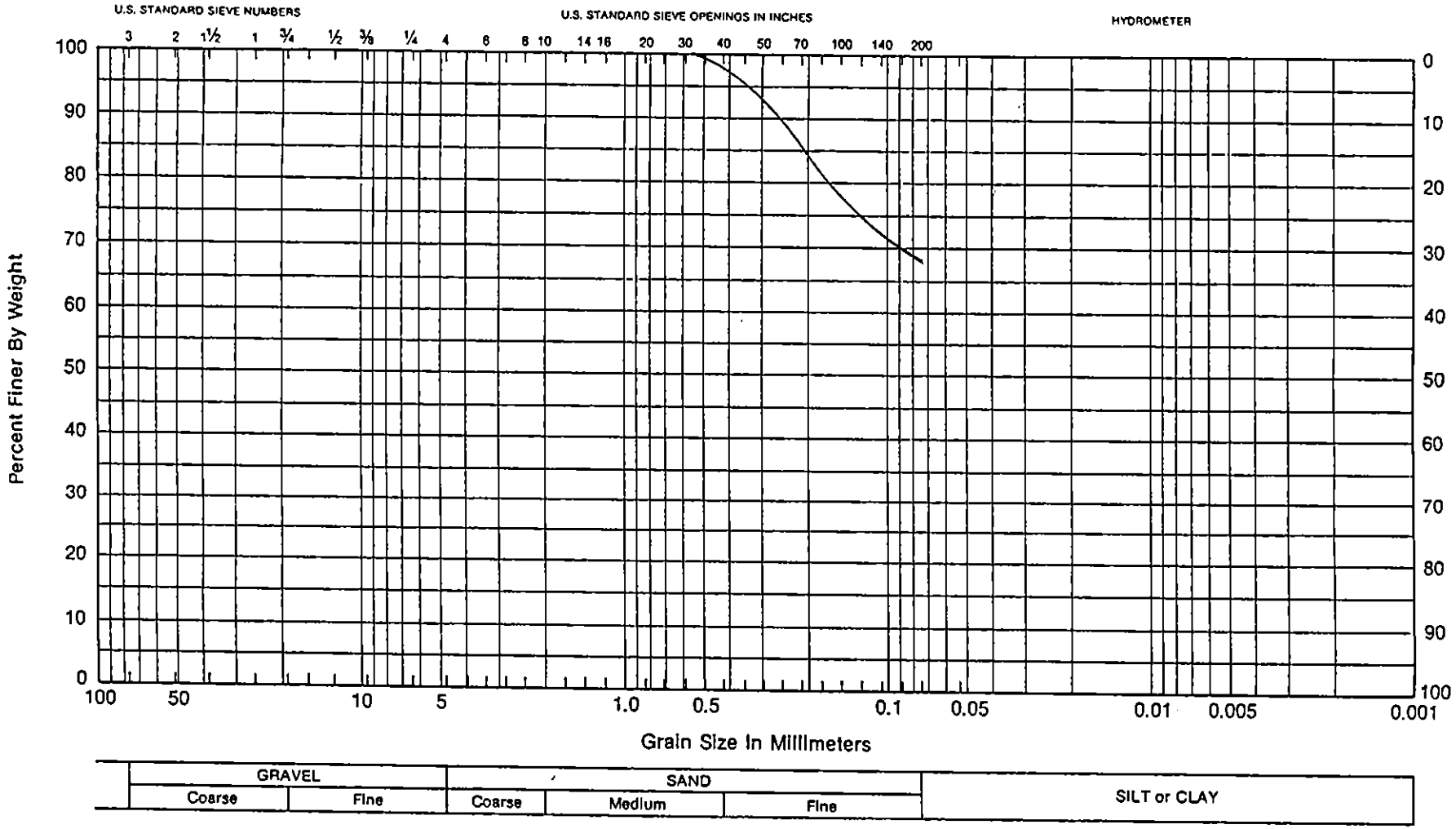
DACW 94-64-R-0011
WALLISVILLE RESERVOIR
93-280, S2, 2' - 4'
HVJ 93-312G
GRAY AND TAN COARSE SAND

GRAIN SIZE CURVES



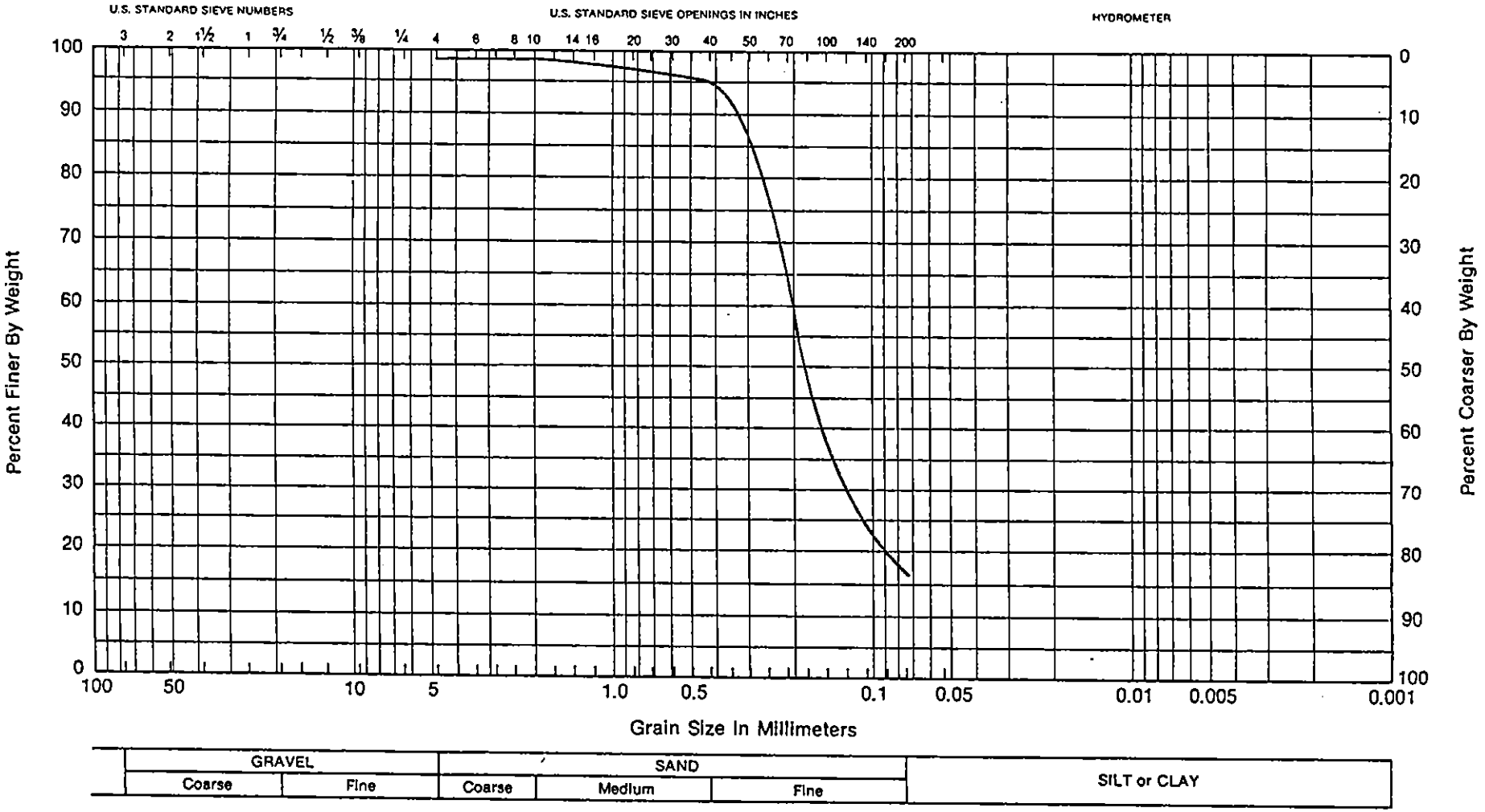
DACW 94-64-R-0011
WALLISVILLE RESERVOIR
93-280, S3, 9' - 10.5'
HVJ 93-312G
TAN AND GRAY COARSE SAND
WITH GRAVEL AND CLAY CLUMPS

GRAIN SIZE CURVES



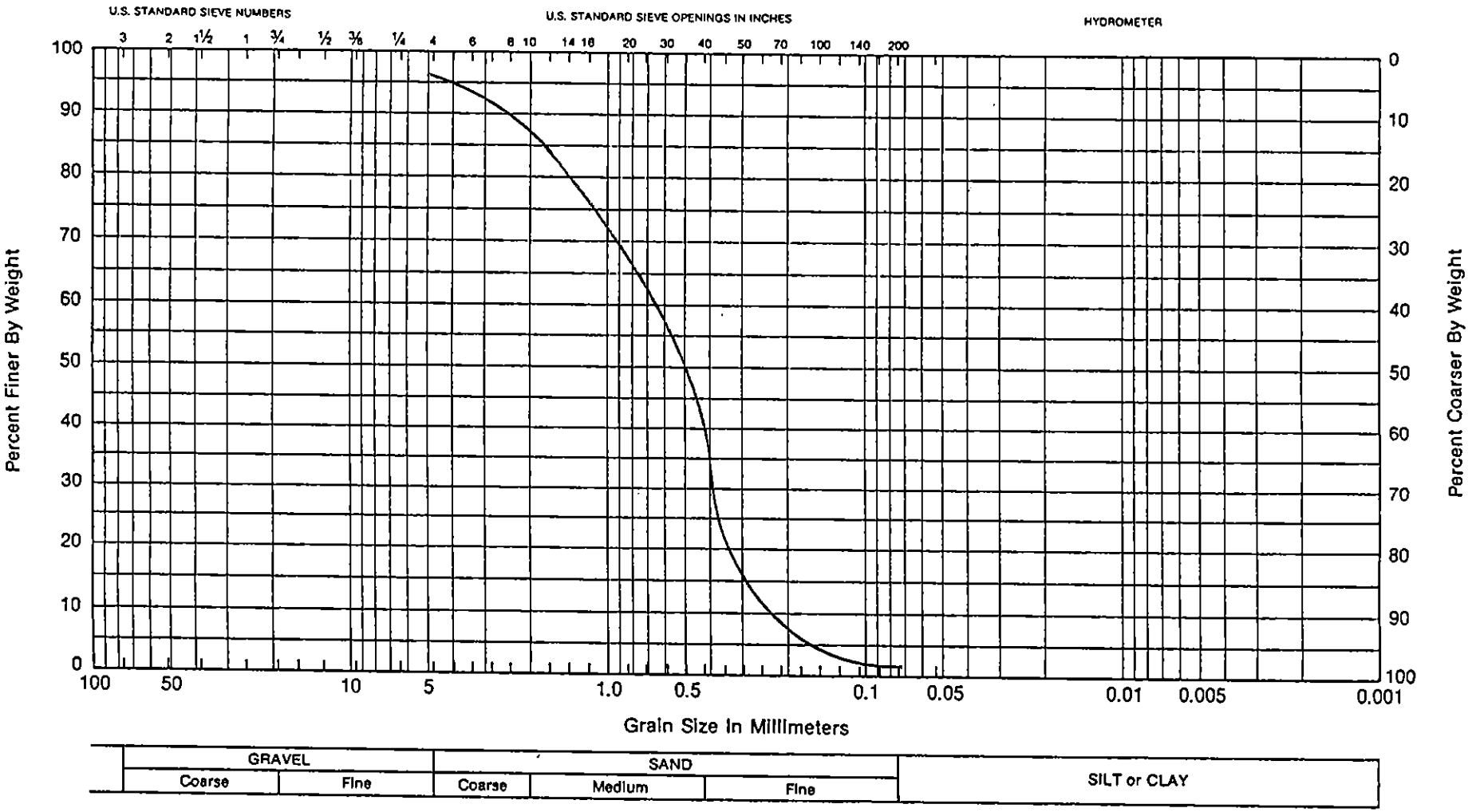
DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-280, S4, 16' - 17.5'
HVJ 93-312G
DARK GRAY SANDY CLAY WITH SILT AND SAND POCKETS

GRAIN SIZE CURVES



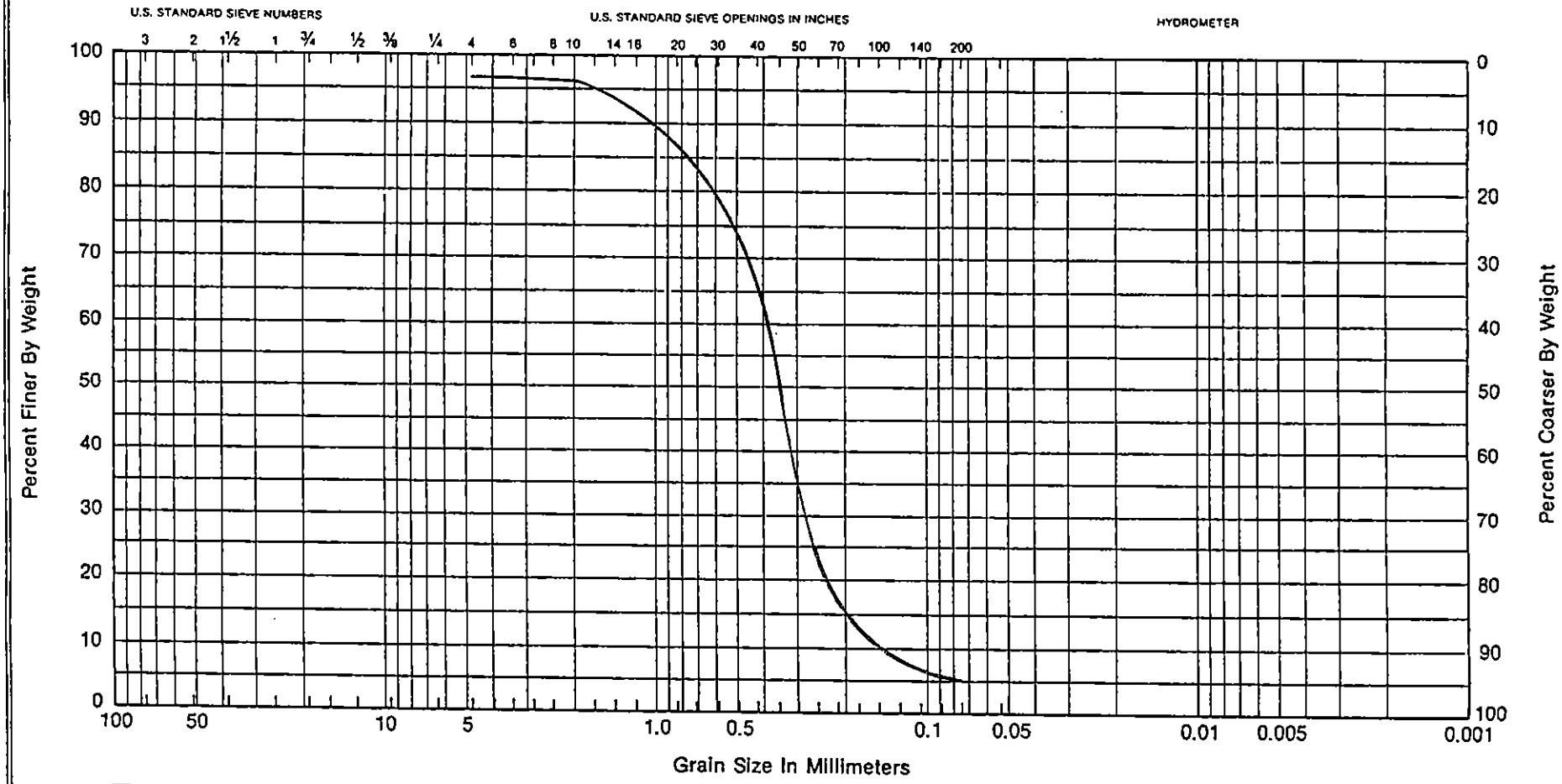
DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-280, S6, 25' - 26.5'
HVJ 93-312G
TAN AND GRAY CLAYEY SAND
WITH SANDY CLAY SEAMS

GRAIN SIZE CURVES



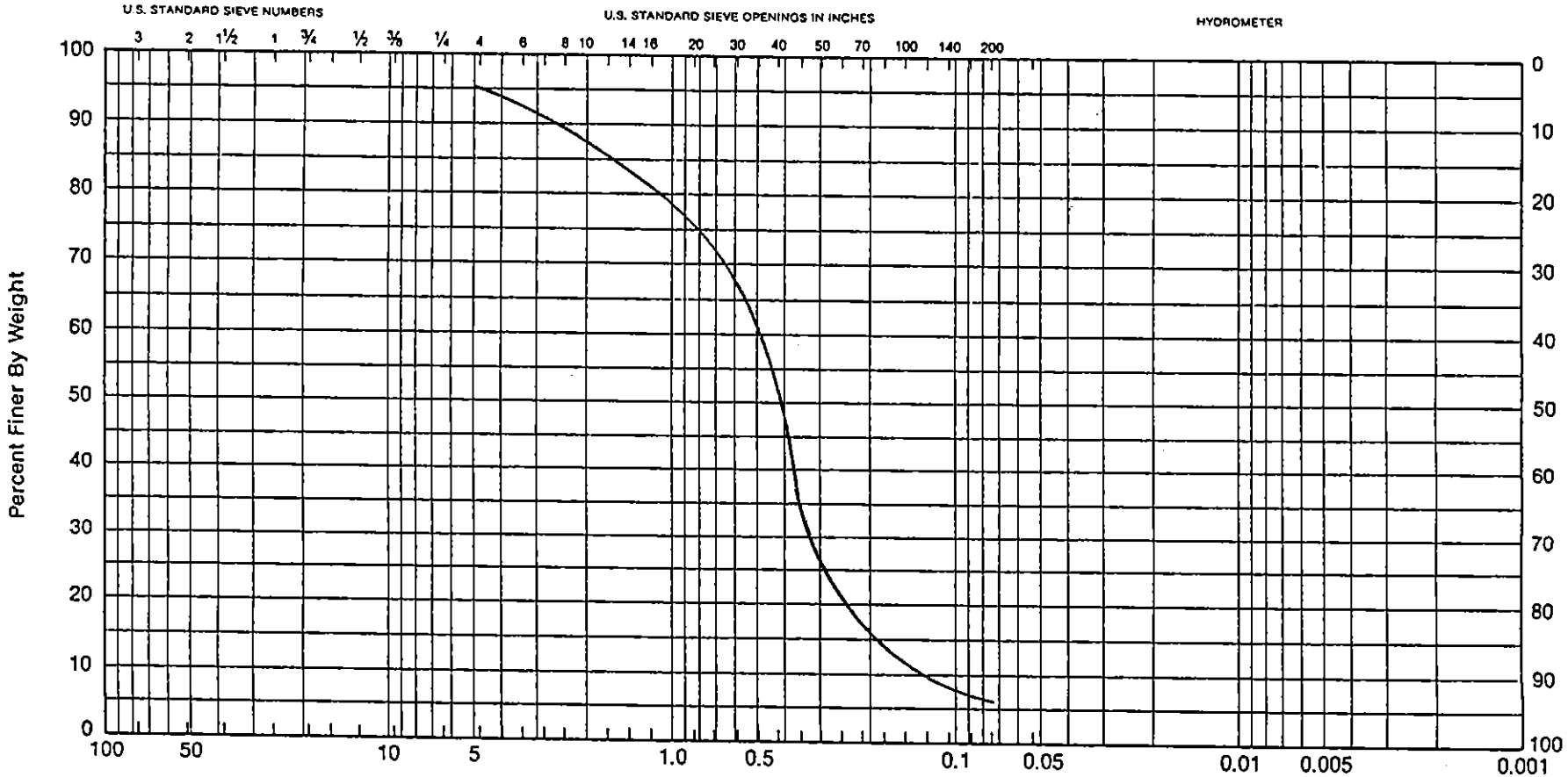
DACW 94-64-R-0011
WALLISVILLE RESERVOIR
93-280, S7, 32' - 33.5'
HVJ 93-312G
TAN SAND WITH GRAVEL

GRAIN SIZE CURVES



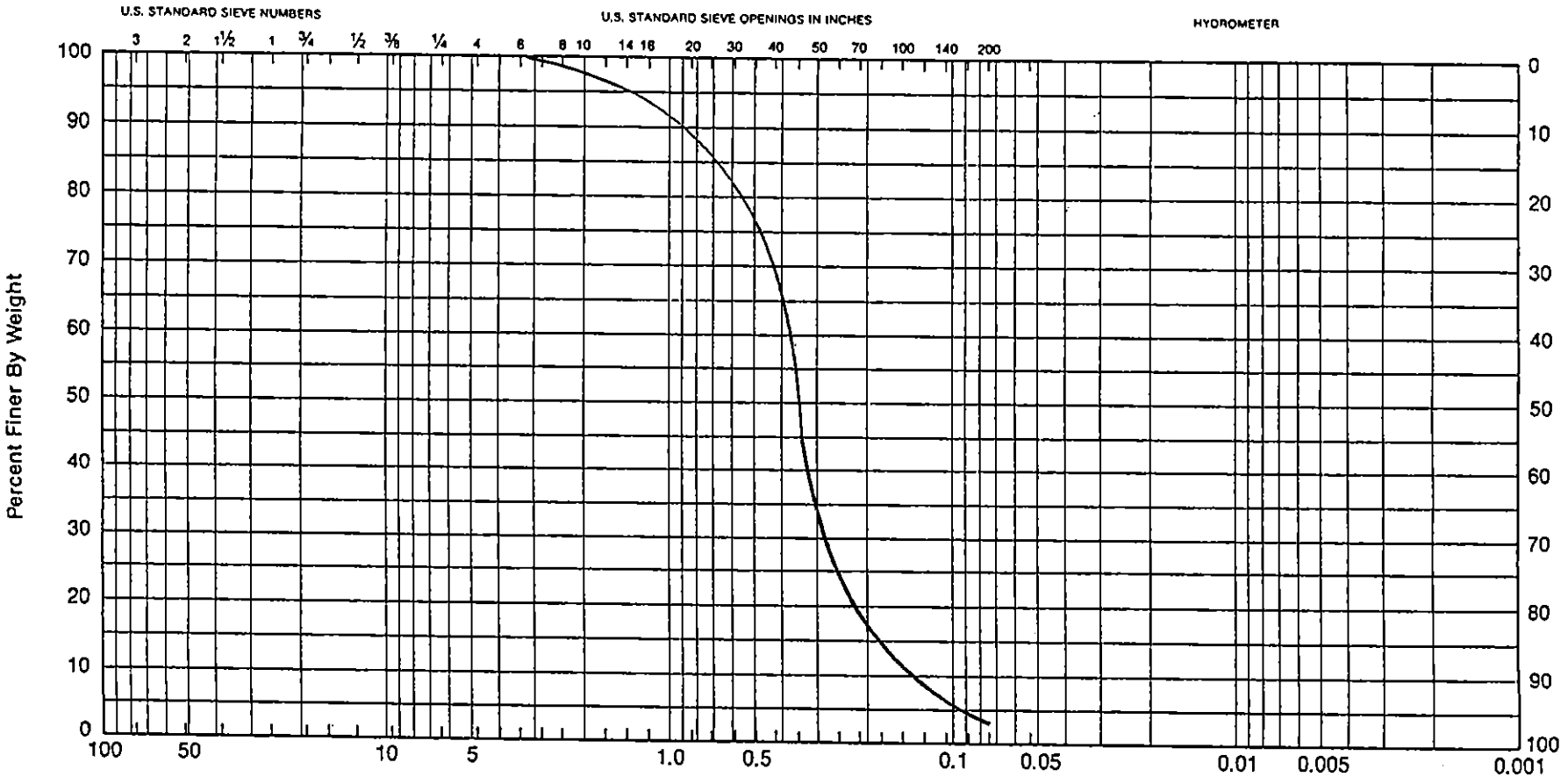
DACW 94-64-R-0011
WALLISVILLE RESERVOIR
93-280, S8, 39' - 40.5'
HVJ 93-312G
TAN AND GRAY SAND WITH
SANDY CLAY CLUMPS AND GRAVEL

GRAIN SIZE CURVES



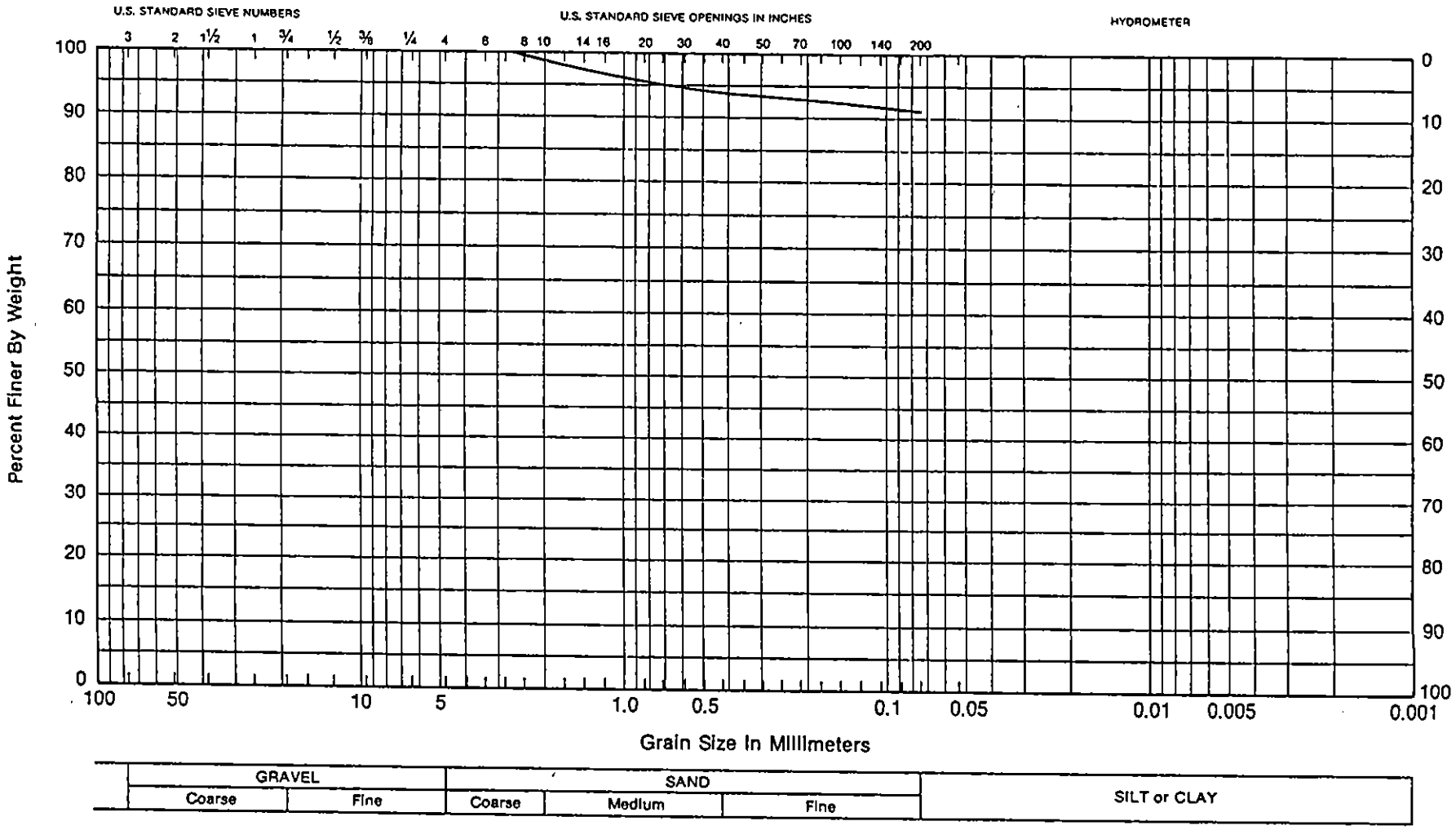
DACW 94-64-R-0011
WALLISVILLE RESERVOIR
93-280, S9, 46' - 47.5'
HVJ 93-312G
TAND AND GRAY COARSE SAND
WITH GRAVEL AND CLAY CLUMPS

GRAIN SIZE CURVES



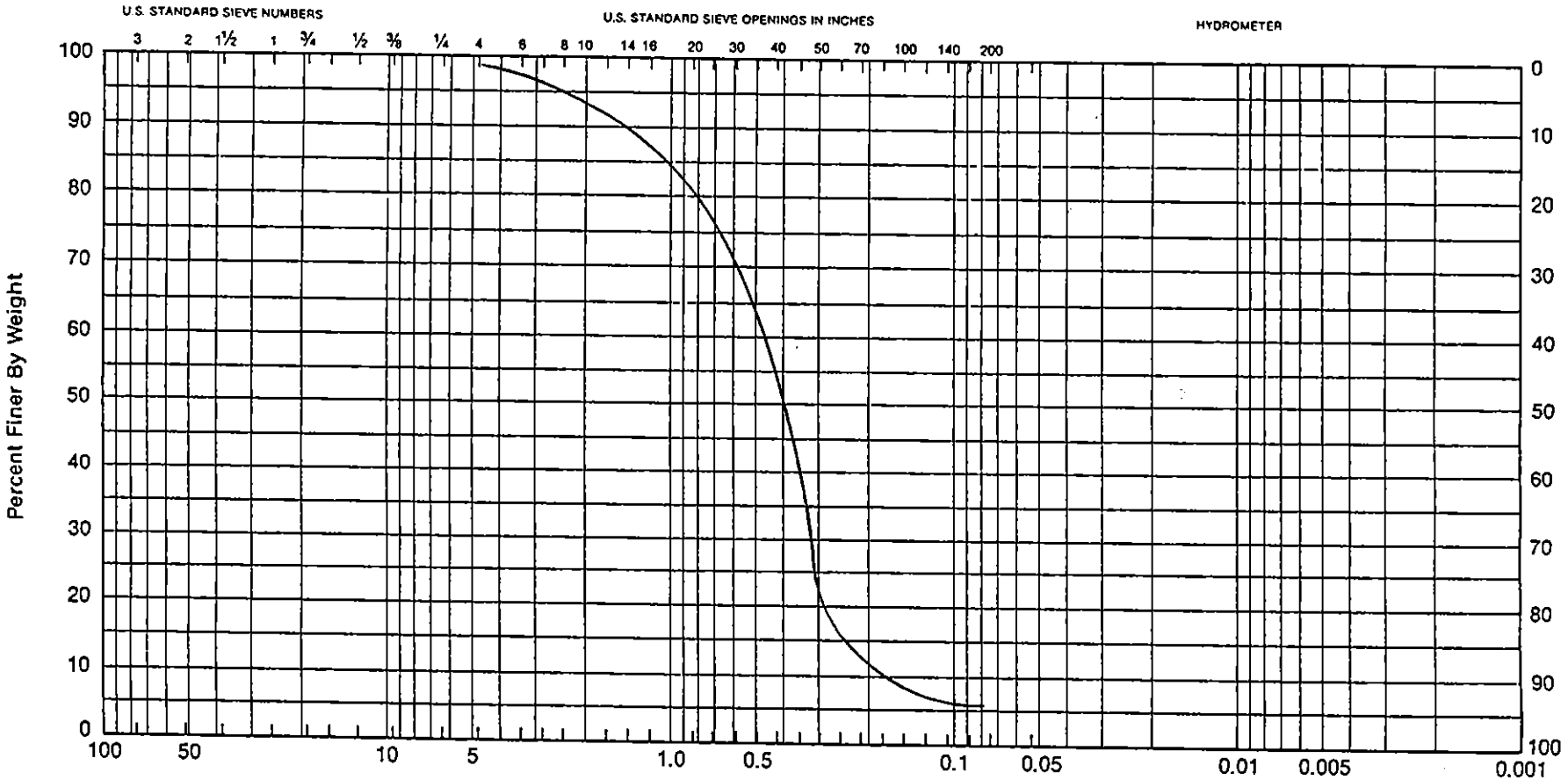
DACW 94-64-R-0011
WALLISVILLE RESERVOIR
93-280, S10, 53' - 54.5'
HVJ 93-312G
TAN COARSE SAND

GRAIN SIZE CURVES



DACW 94-64-R-0011
WALLISVILLE RESERVOIR
93-280, S11, 60' - 62'
HVJ 93-312G
REDDISH BROWN AND GRAY CLAY WITH SILT, GRAVEL AND FERROUS NODULES

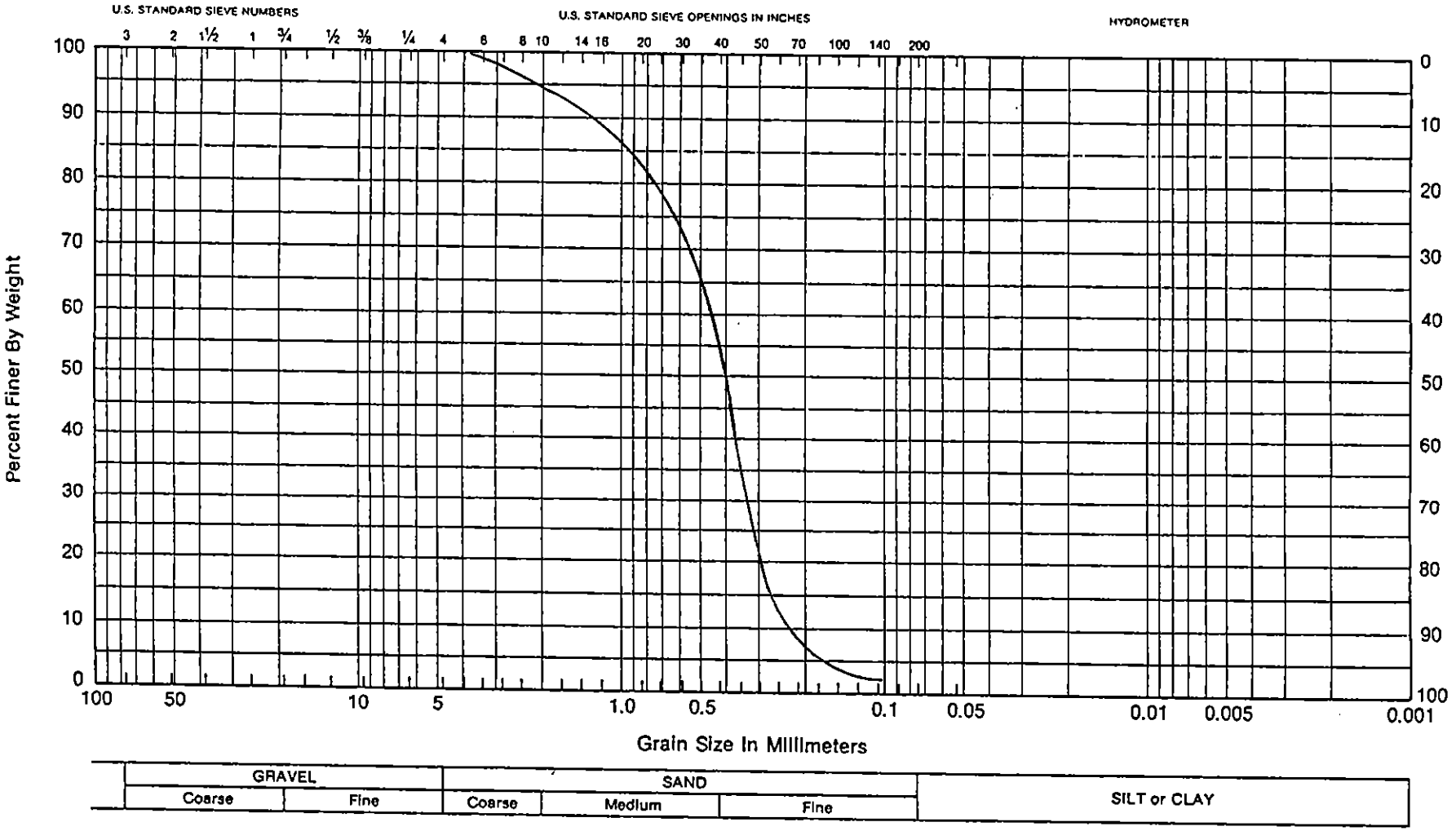
GRAIN SIZE CURVES



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

DACW 94-64-R-0011
WALLISVILLE RESERVOIR
93-280, S12, 69' - 70.5'
HVJ 93-312G
TAN AND GRAY SAND WITH SANDY CLAY CLUMPS AND GRAVEL

GRAIN SIZE CURVES



DACW 94-64-R-0011
WALLISVILLE RESERVOIR
93-280, S13, 76' - 77.5'
HVJ 93-312G
TAN SAND WITH GRAVEL