FIELD BORING LOG

Project Name: TRINITY RIVER - WALLISVILLE, TEXAS		Project No. 93-312G
Location: TRINITY RIVER		Client: ARMY CORP OF ENG.
Boring No.: 93-276	Date Started: 3-4-94	El. of River: + 3.233
Water Depth: 15.83	Date Completed: 3-5-94	Easting: 3,353,500.41
Time Started: 5:00 PM	Northing: 744,125.95	Driller: PAT STEPHENS
Time Completed: 12:00 PM	Logger: D. CANADA	Depth to caving:
Rig: MOBIL B-61	Weather: CLOUDY & WINDY 76 DEGREES	

DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLES	SOIL DESCRIPTION	SOIL CLASSIFICATION	BLOWS/6"	BLOWS/6"	BLOWS/6"	TORVANE	HAND PENETROMETER
0	S1	J		DK. GR. SA. W/SHELL	SP					
5										
	S2	P	X	Hard ~~DENSE~~ DK. GR. ~~SA~~ CL W/SHELL	CH ~~SC~~	14	24	14		
10	S3	S		~~MED~~ V STIFF TA. LT. GR. ~~SIL. SA~~ CL W/ CAL	SC CH				.5	2.25
	S4	S		~~VERY SOFT~~ ST TA. LT. GR. CL	~~SC~~ CH				1.5	1.75
15										
	S5	P	X	VERY DENSE GR. TA. SA. ~~CL~~ W SAC SMS	SP	12	14	38		
20										
25	S6	P	X	Medium DENSE TA. GR. SA.	SP	8	12	18		
30										

(S) = SHORT SAMPLE

FIELD BORING LOG

Boring No.: 93-276

DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLES	SOIL DESCRIPTION	SOIL CLASSIFICATION	BLOWS/6"	BLOWS/6"	BLOWS/6"	TORVANE (tsf)	HAND PENETROMETER (tsf)
30										
	S7	P	X	LOOSE TA. GR. SA.	SP	2	3	3		
35										
	S8	P	X	MED. DENSE LT. GR. SA.	SP	6	9	10		
40										
45	S9	P	X	VERY DENSE TA. SA. W/GRAVEL	SP	25	36	36		
50										
	S10	J		MED. STIFF TA, LT. GR. SIL. CL. W/ FER	CL ~~SC~~				~~.5~~	3.0
	S11	J		TA. LT. GR. ~~SIL~~. CL.	CH ~~SC~~					*
55	S12	S		~~MED~~. STIFF TA. LT. GR. ~~SIL~~. CL. W/FER CAL	CH ~~SC~~				.15	2.5
(S)	S13	S		MED. STIFF TA. LT. GR. ~~SIL~~. CL. W/ FER CAL	~~SC~~ CH				.5	1.5
(S) 60	S14	S		MED. STIFF TA. LT. GR. ~~SIL~~. CL. W/SA. POCKET	~~SC~~ CH				.54	1.5
	S15	J		Hard LT. GR. ~~SIL~~ CL. SA CL	~~SM~~ CL					4.5
65										
	S16	P	X	V/dense TA. LT. GR. SA.	SP ~~SC~~	25-50/4				
70										

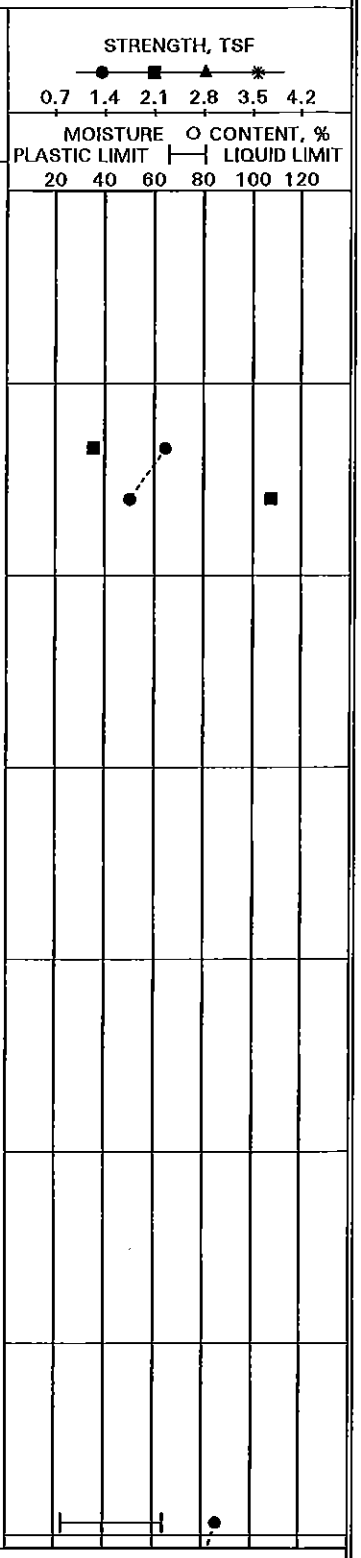
NOTE: (S) SHORT SAMPLE * no more sample

LOG OF SOIL BORING

Project Name: Trinity River Soil Borings
Project No. 93-312G
ring No.: 93-276
ud Line Elevation: -12.6 feet (NGVD)
Completion Depth: 69.5 feet
Water Depth: 15.83 feet

Weather: Cloudy and windy
Date: March 4, 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 SILTY SAND w/ shell		76	72	68	42	18	
-15									
5									
-20		Hard dark gray CLAY	38	99	99	97	91	88	
10									
-25									
15									
-30									
		Very dense tan and gray SAND w/ gravel	52	100	99	90	46	8	
20									
-35									
25		Medium dense gray and tan SILTY SAND	30	100	99	96	51	16	
-40									
30									
-45		loose below 31.5'	6	100	100	96	61	15	
35									
-50		Medium dense tan and gray SAND	19	100	100	91	23	4	
40									
-55									
45		very dense, tan w/ gravel below 44.5'	72	98	96	56	7	5	
-60									
50									
		Very stiff brown and gray CLAY w/ slickensides		100	100	98	96	93	



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

Plate 8A

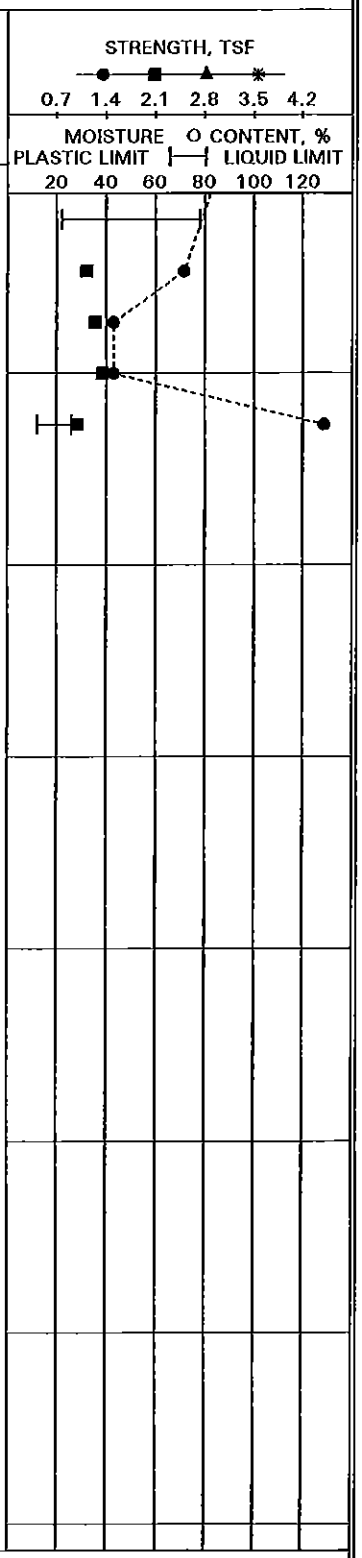
HVJ ASSOCIATES, INC.

LOG OF SOIL BORING

Project Name: Trinity River Soil Borings
Project No. 93-312G
ring No.: 93-276
ud Line Elevation: -12.6 feet (NGVD)
Completion Depth: 69.5 feet
Water Depth: 15.83 feet

Weather: Cloudy and windy
Date: March 4, 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		w/ ferrous and calcareous nodules to 53'		100	99	97	95	92	
-60									
-65		Hard tan and gray SILTY CLAY w/ sand, sand partings, and ferrous nodules		100	100	100	99	80	
-70		Very dense tan and gray CLAYEY SAND w/ sand partings	50/ 4"	100	100	100	98	30	
-75									
-80									
-85									
-90									
-95									
-100									
-105									
-110									
-115									

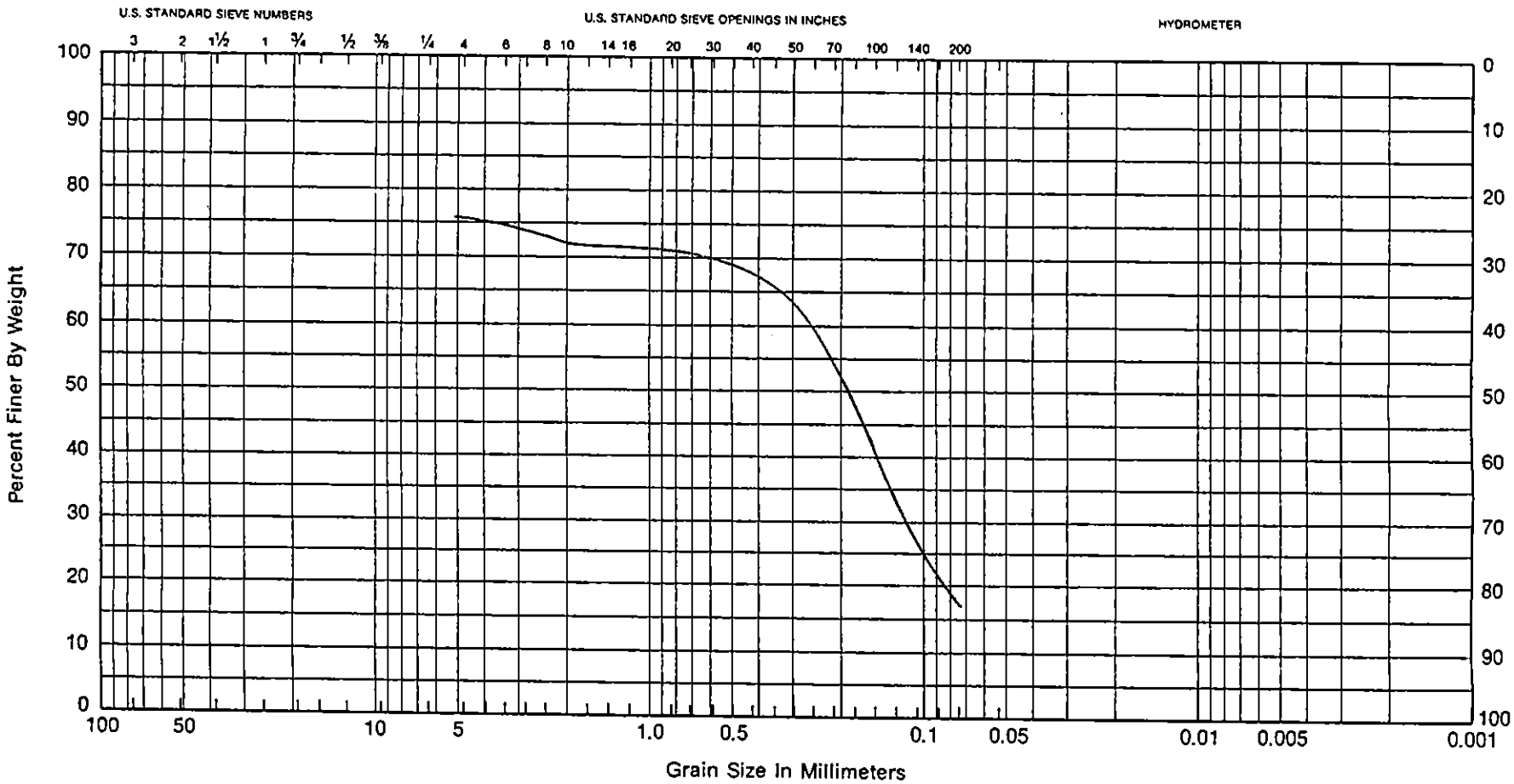


● = Direct Hand Penetrometer ■ = Torvane ▲ = Unconfined Compression ✱ = Shear Stress

Plate 8B

HVJ ASSOCIATES, INC.

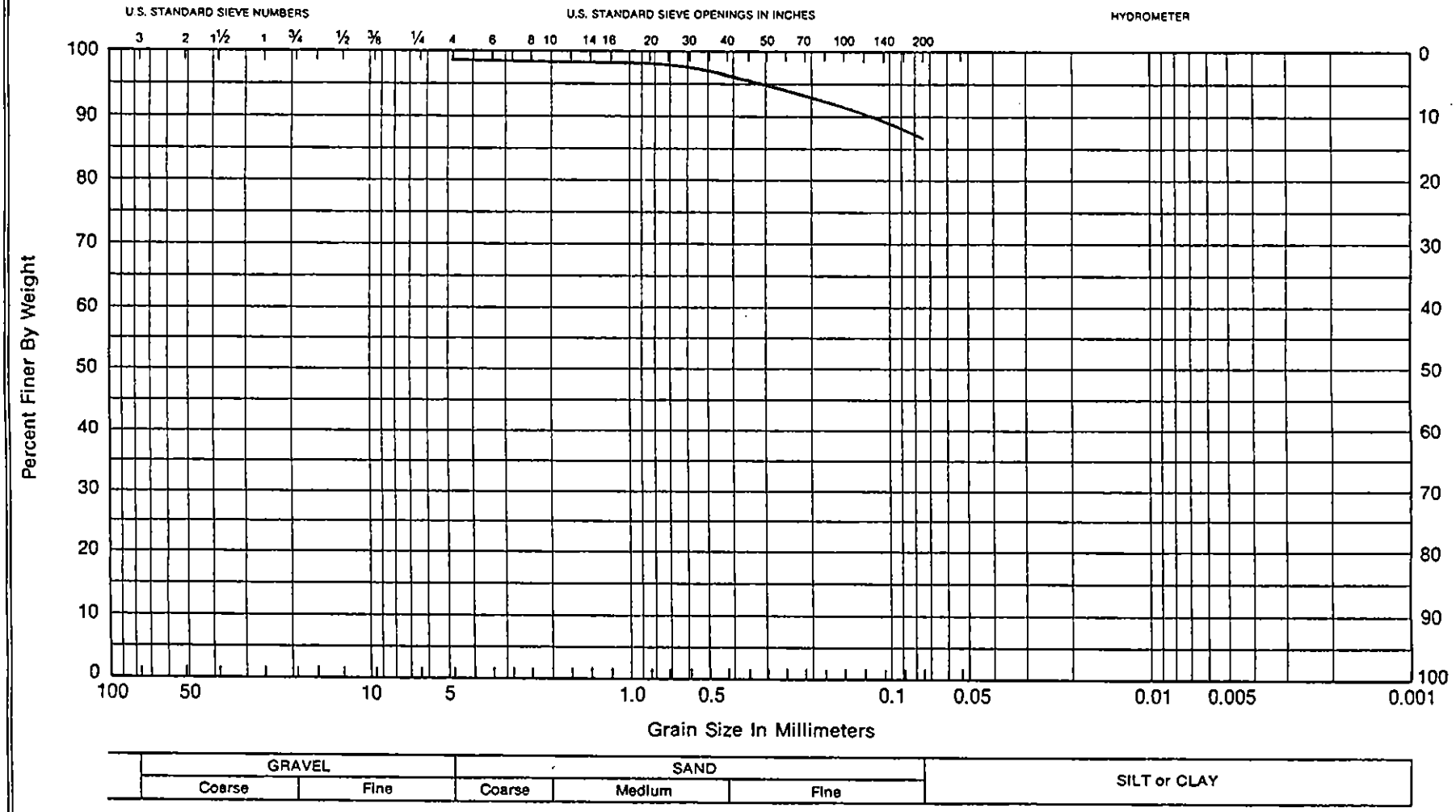
GRAIN SIZE CURVES



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

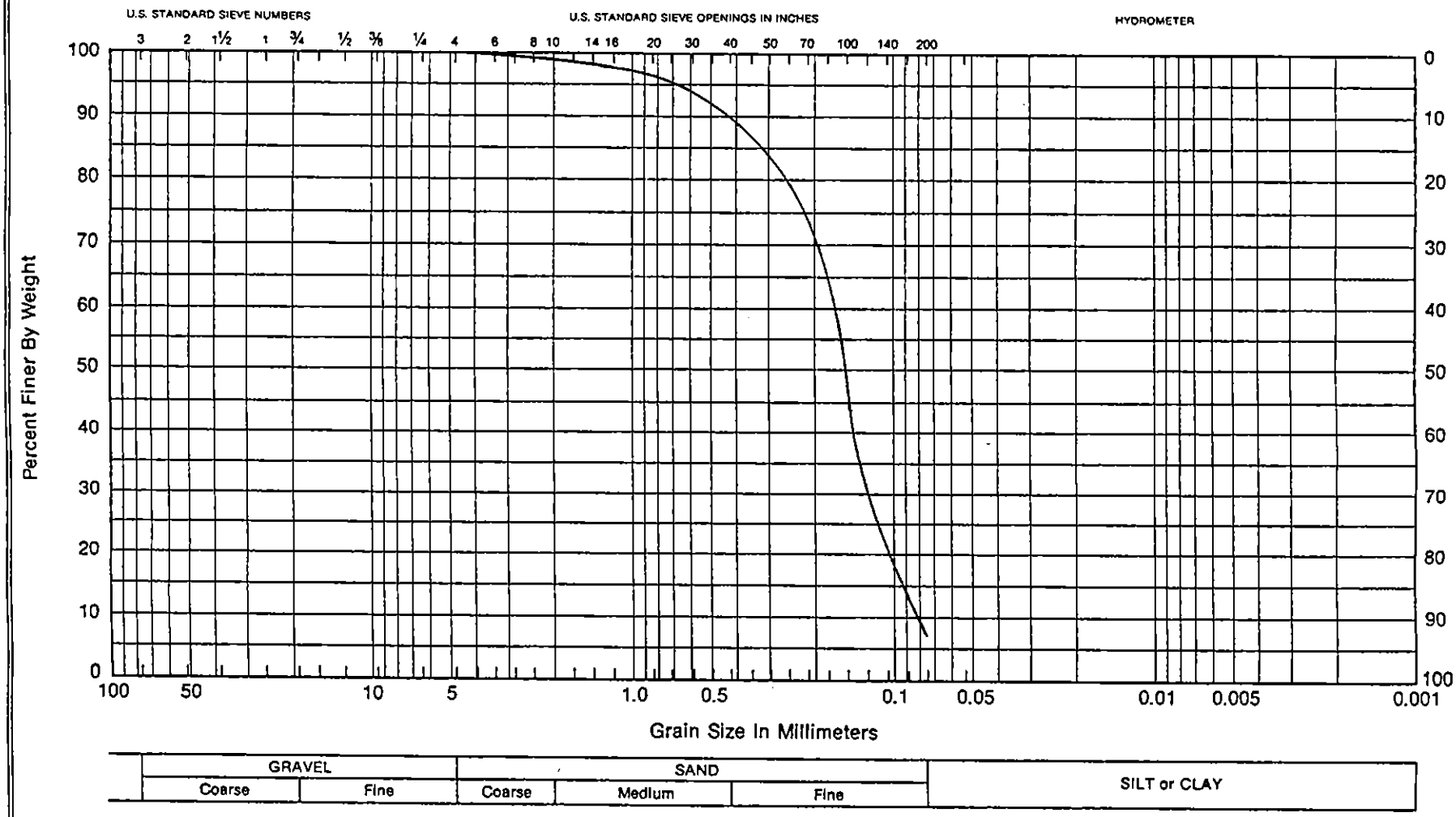
DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-276, S1, 0' - 2'
HVJ 93-312G
DARK GRAY SILTY SAND WITH SHELL

GRAIN SIZE CURVES



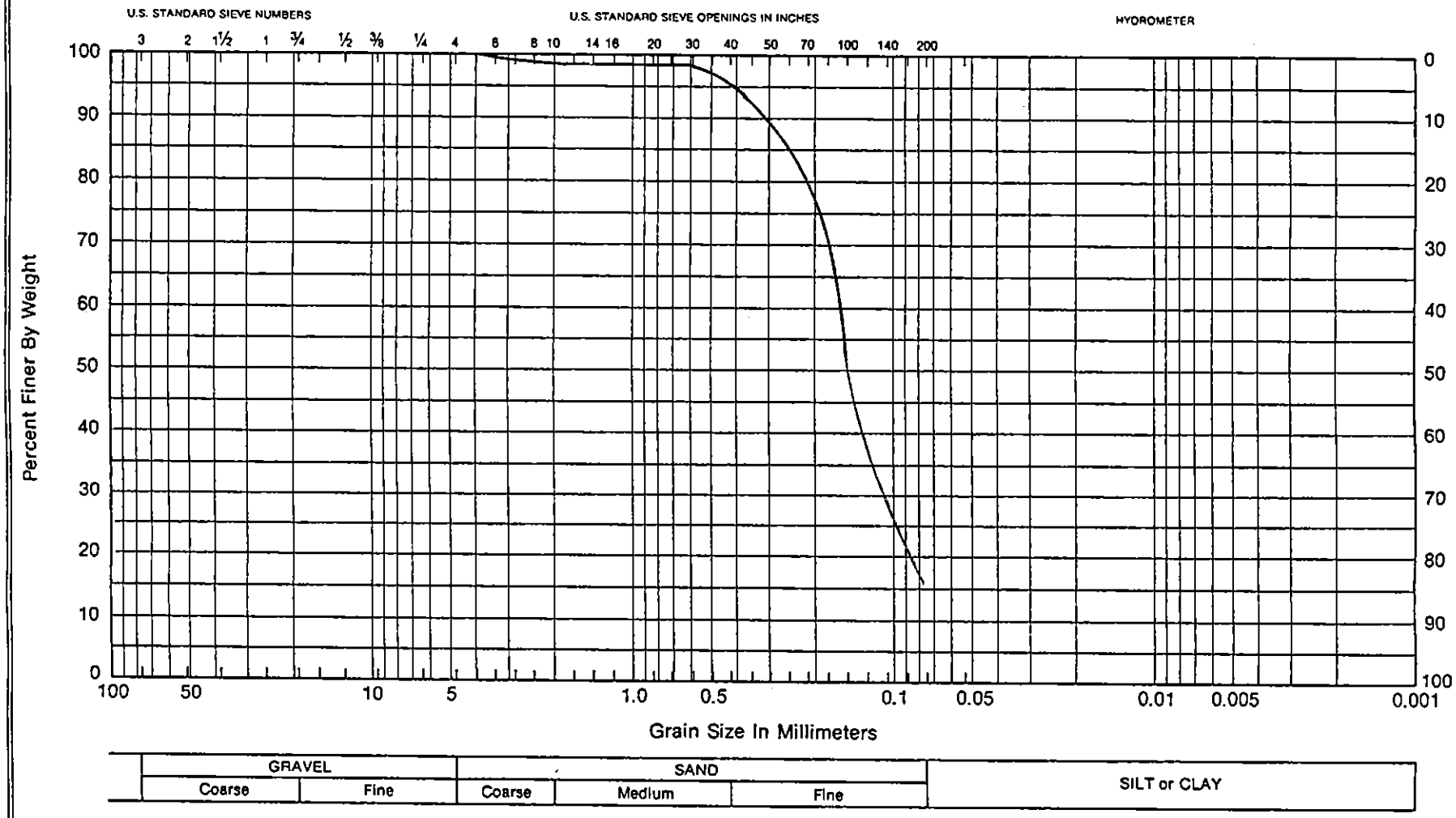
DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-276, S2, 7' - 8.5'
HVJ 93-312G
DARK GRAY CLAY WITH SILT

GRAIN SIZE CURVES



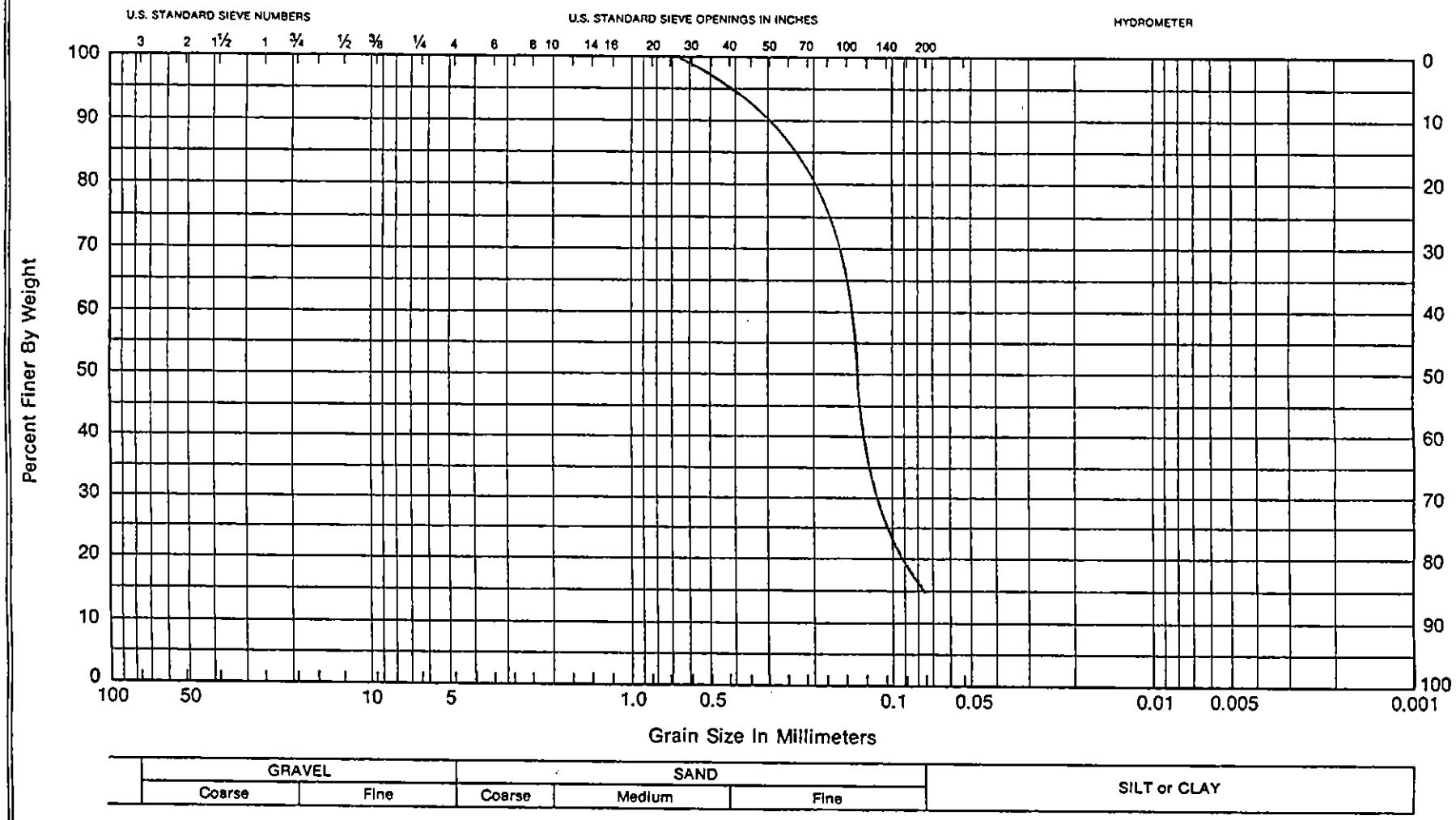
DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-276, S5, 18' - 19.5'
HVJ 93-312G
TAN AND GRAY SAND WITH
SANDY CLAY CLUMPS AND GRAVEL

GRAIN SIZE CURVES



DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-276, S6, 25' - 26.5'
HVJ 93-312G
GRAY AND TAN SILTY SAND
WITH SANDY CLAY CLUMPS

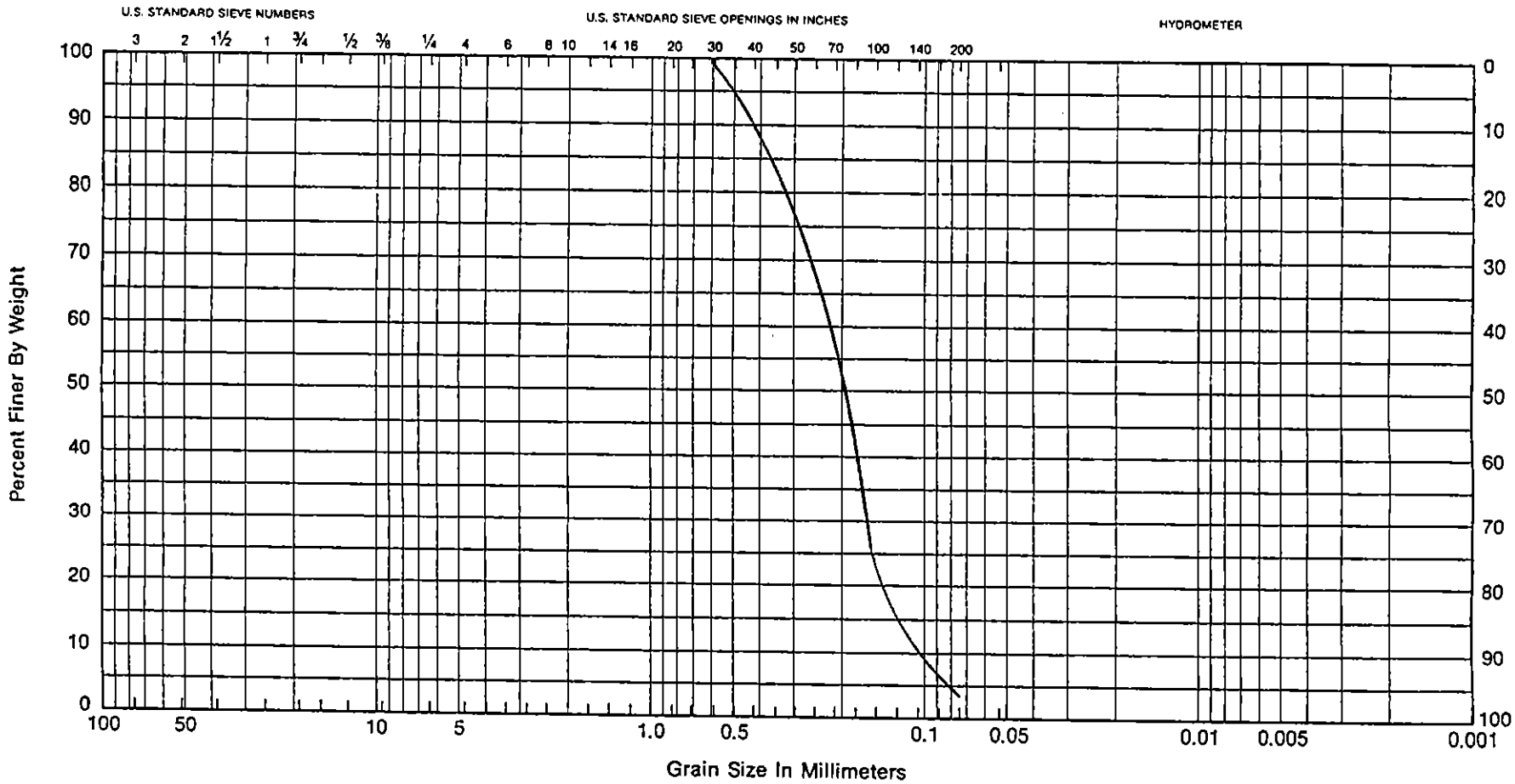
GRAIN SIZE CURVES



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-276, S7, 31.5' - 33'
HVJ 93-312G
GRAY AND TAN SILTY SAND
WITH SANDY CLAY CLUMPS

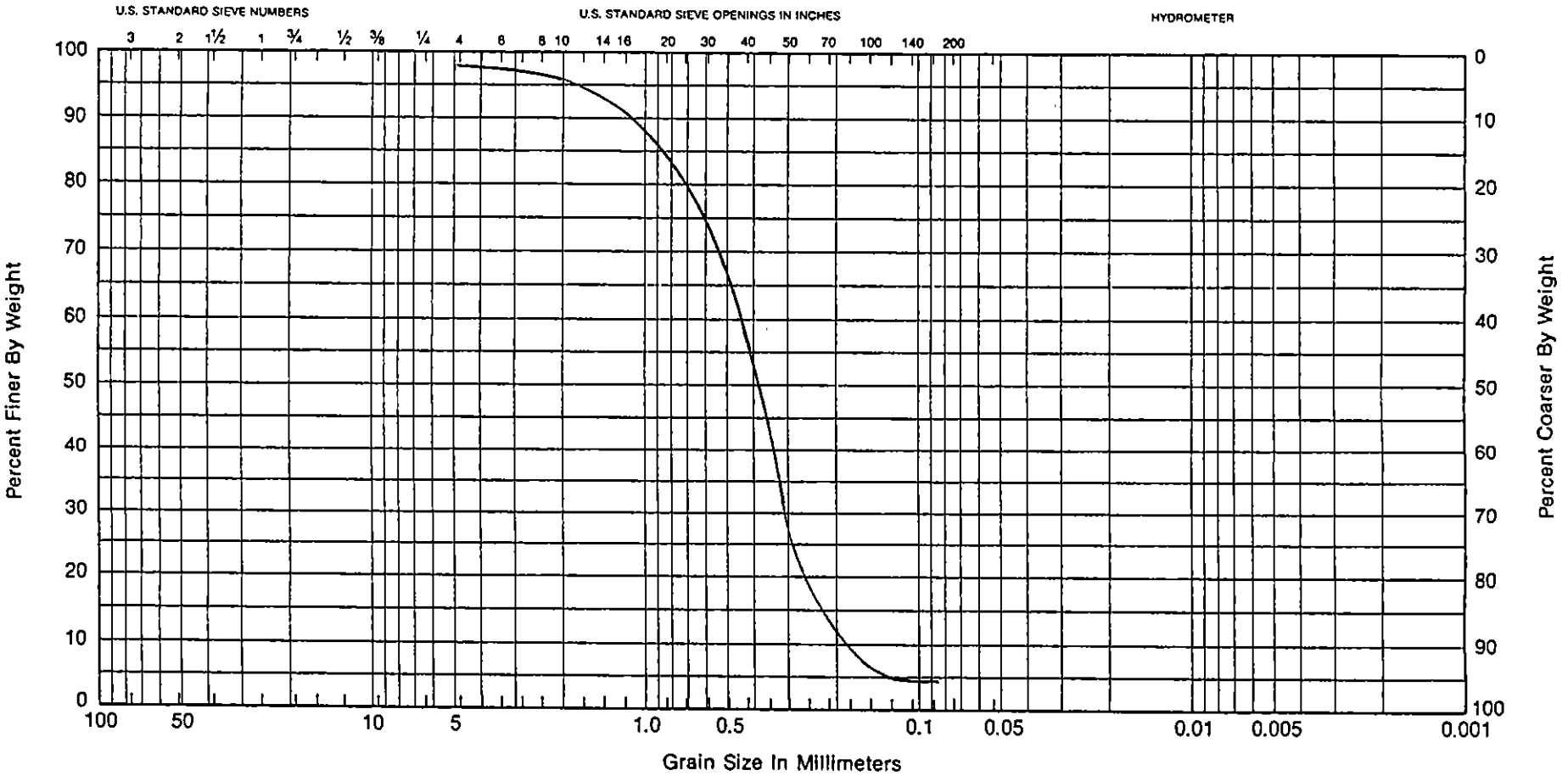
GRAIN SIZE CURVES



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-276, S8, 38' - 39.5'
HVJ 93-312G
GRAY AND TAN SAND WITH SILT

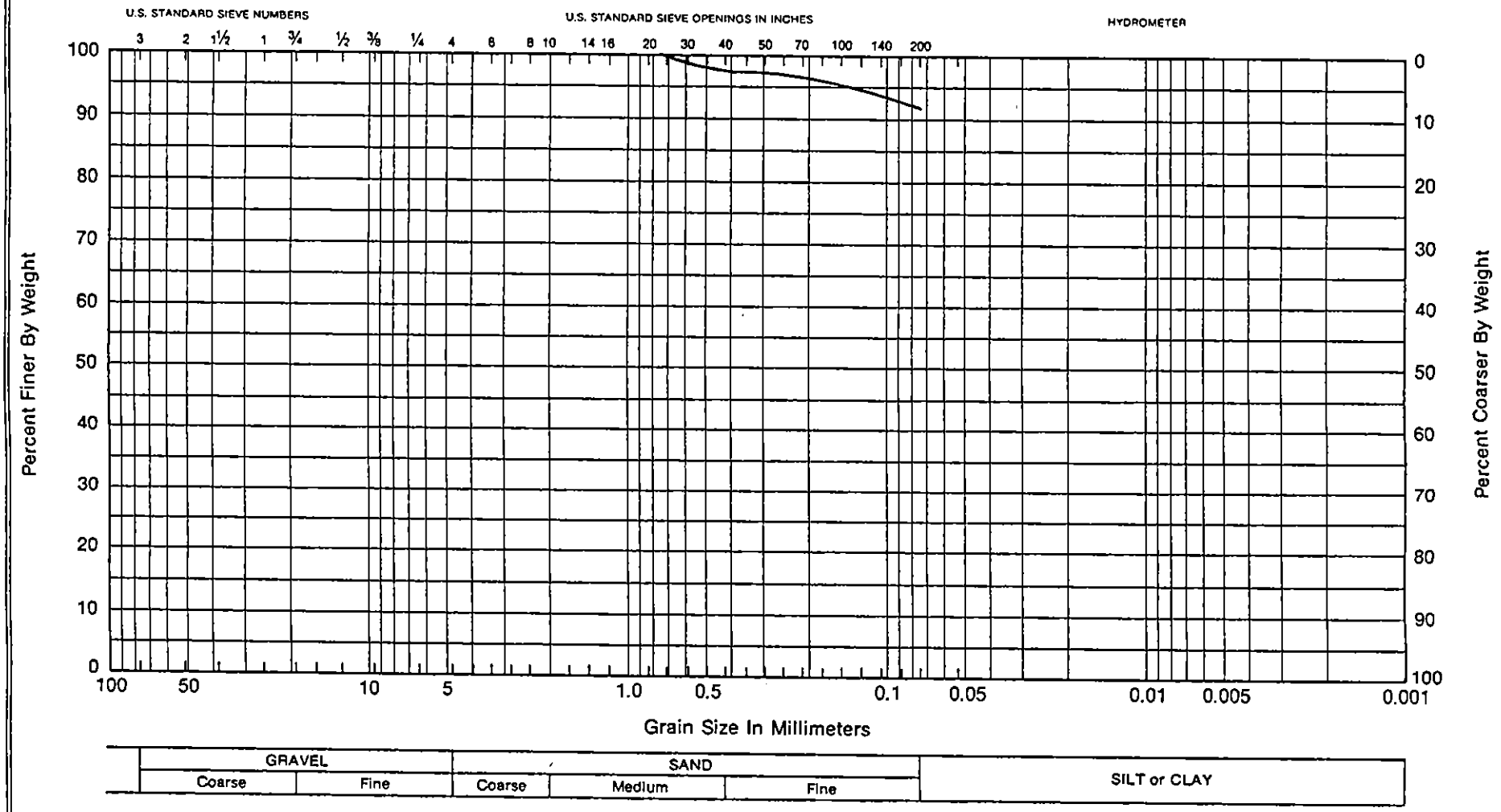
GRAIN SIZE CURVES



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-276, S9, 44.5' - 46'
HVJ 93-312G
TAN COARSE SAND WITH GRAVEL

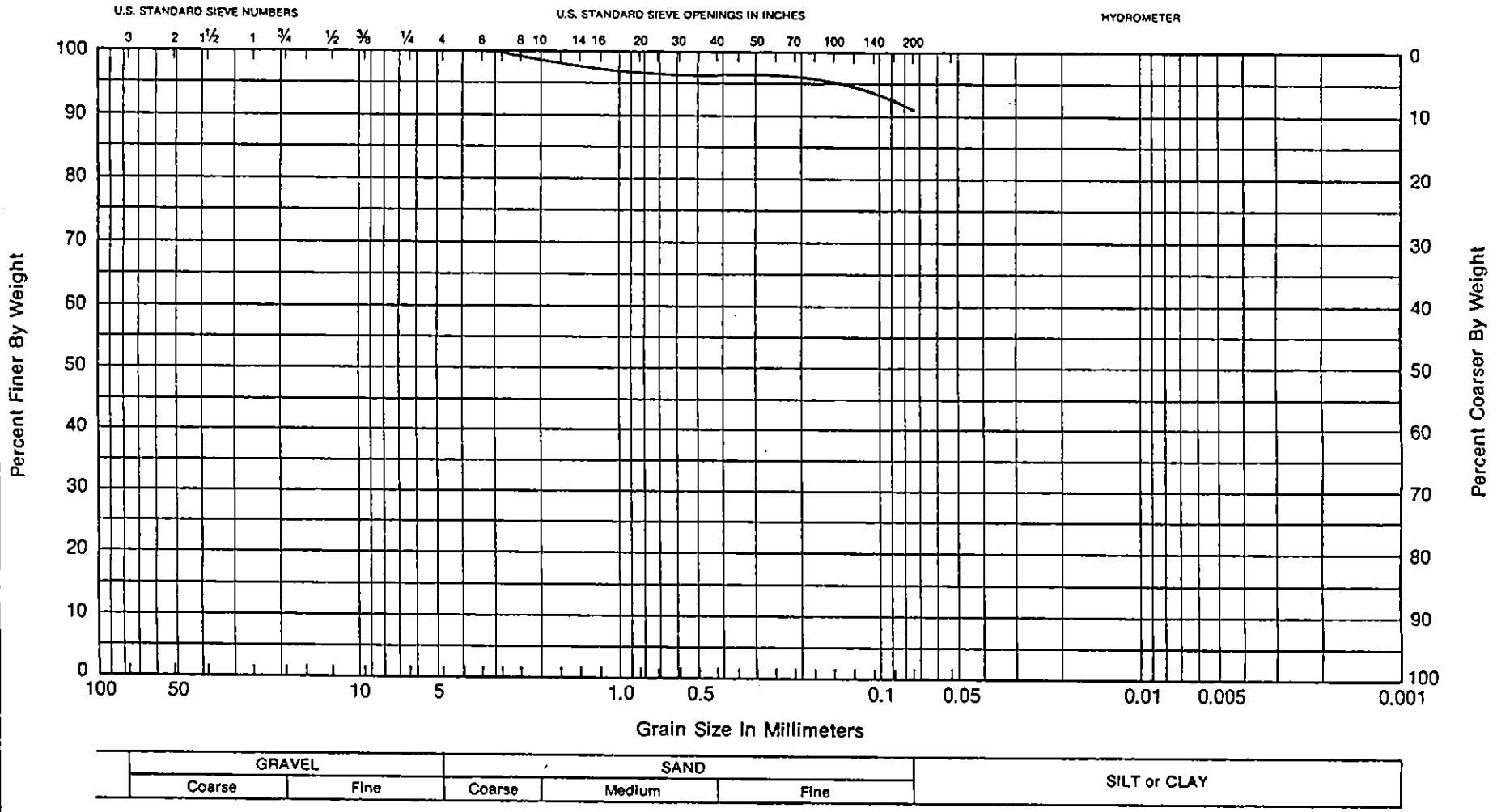
GRAIN SIZE CURVES



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

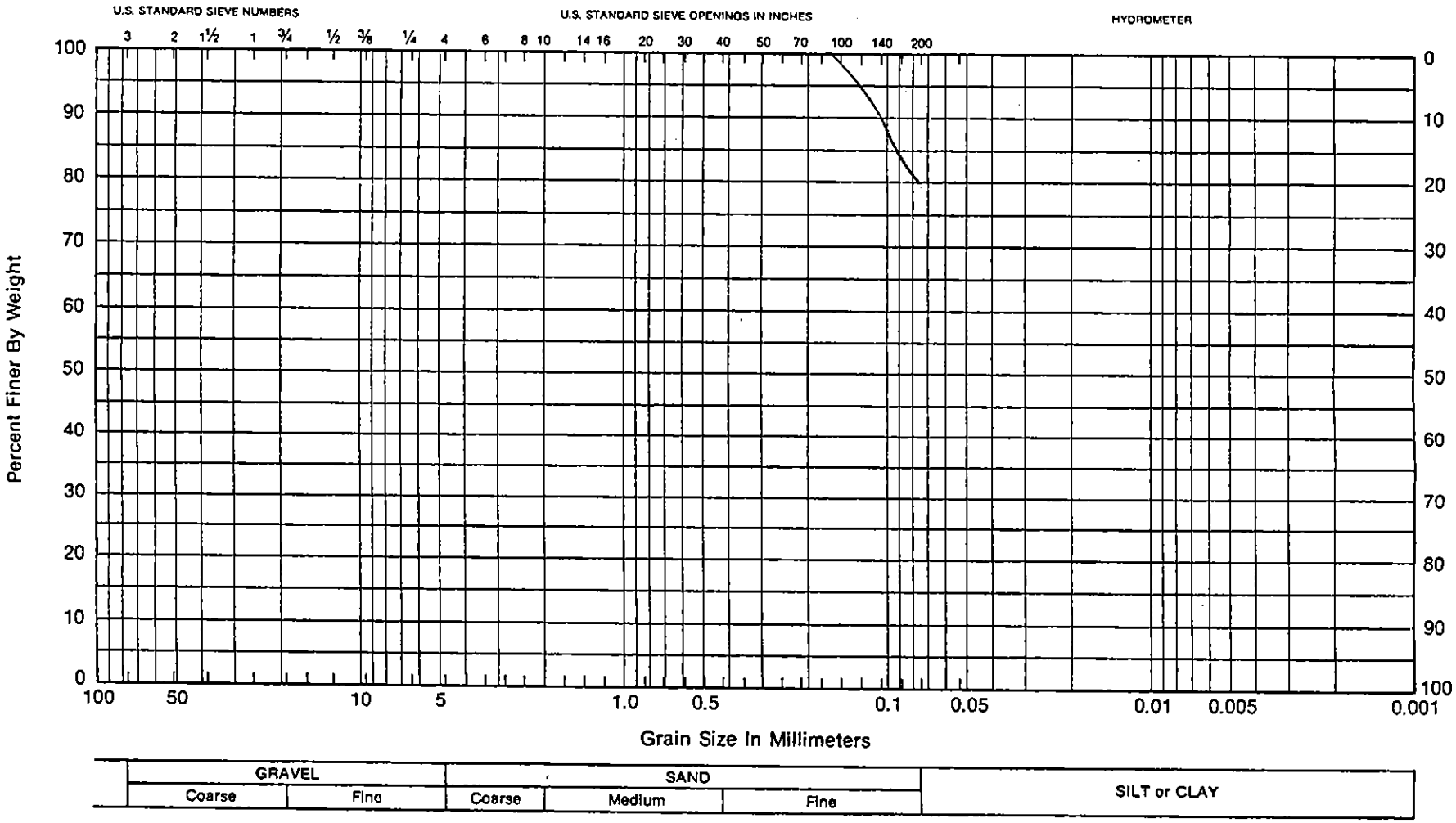
DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-276, S10, 51' - 53'
HVJ 93-312G
BROWN AND GRAY CLAY WITH SILT, FERROUS NODULES, AND CALCAREOUS NODULES

GRAIN SIZE CURVES



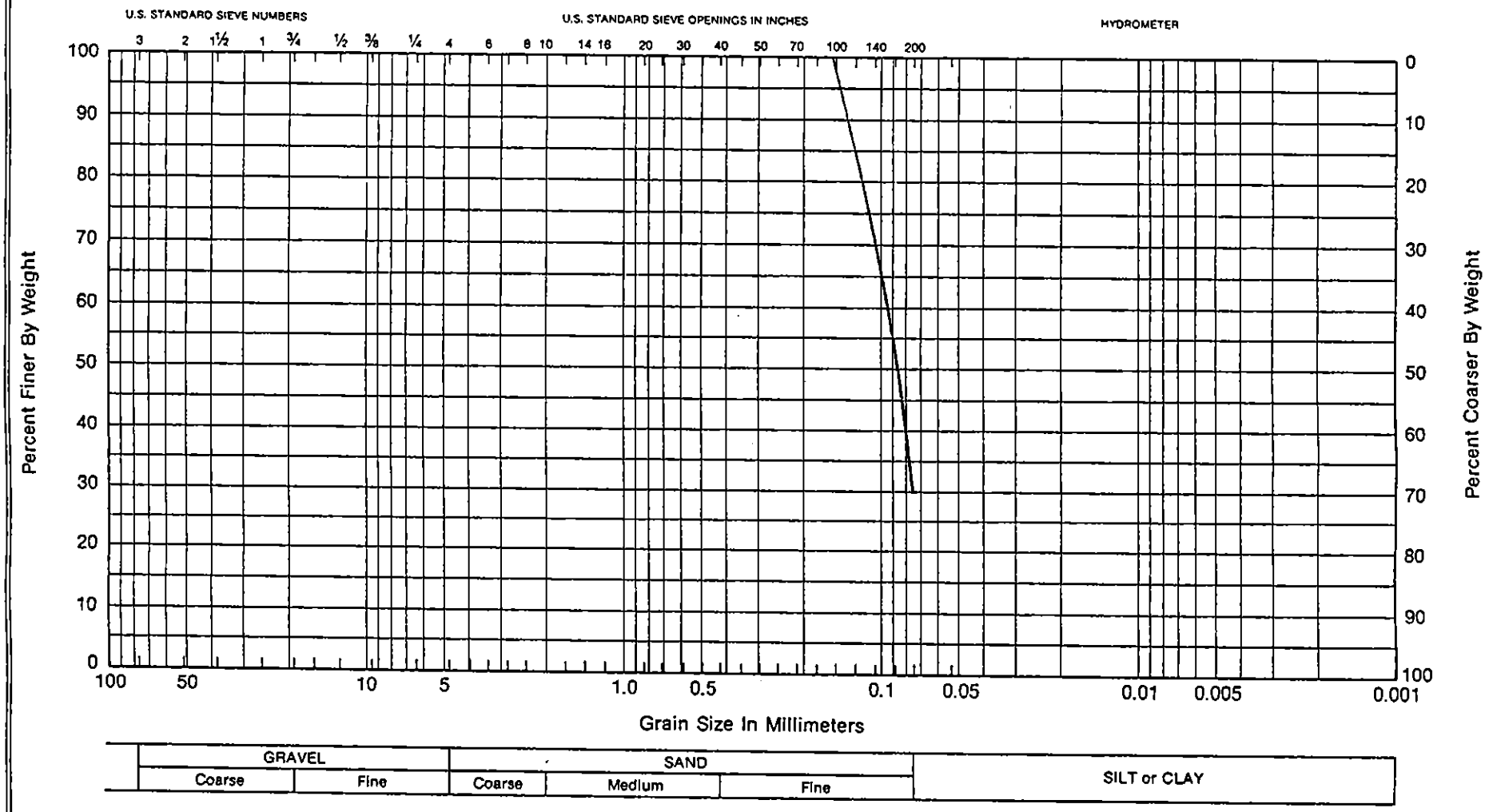
DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-276, S11, 53' - 55'
HVJ 93-312G
TAN AND GRAY CLAY WITH SILT

GRAIN SIZE CURVES



DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-276, S15, 61' - 63'
HVJ 93-312G
TAN AND GRAY SILTY CLAY WITH SAND, SAND PARTINGS AND FERROUS NODULES

GRAIN SIZE CURVES



DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-276, S16, 68' - 69.5'
HVJ 93-312G
TAN AND GRAY CLAYEY SAND WITH SAND PARTINGS AND SILT