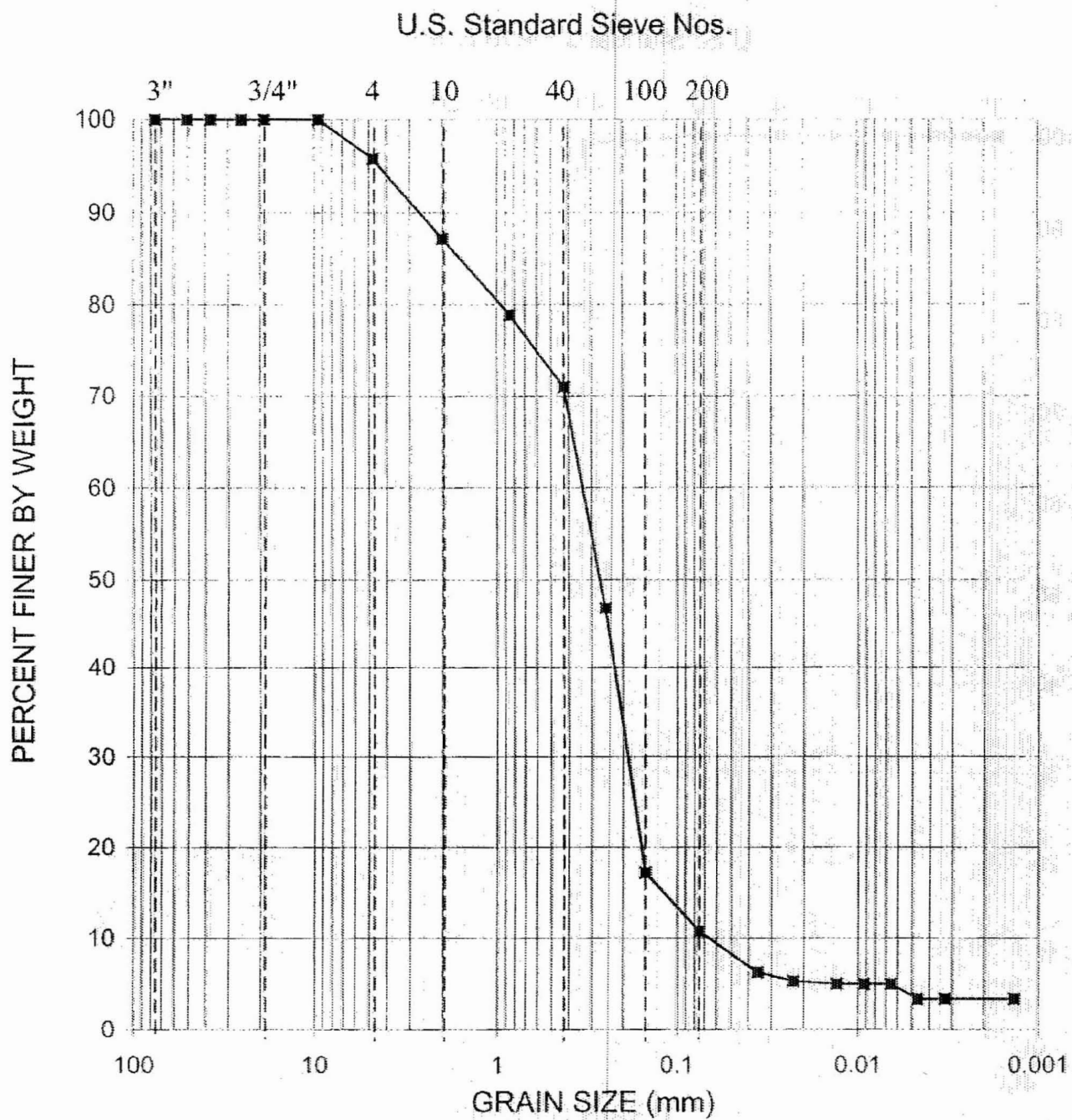
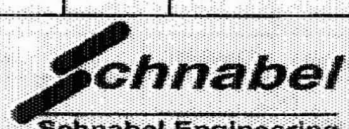


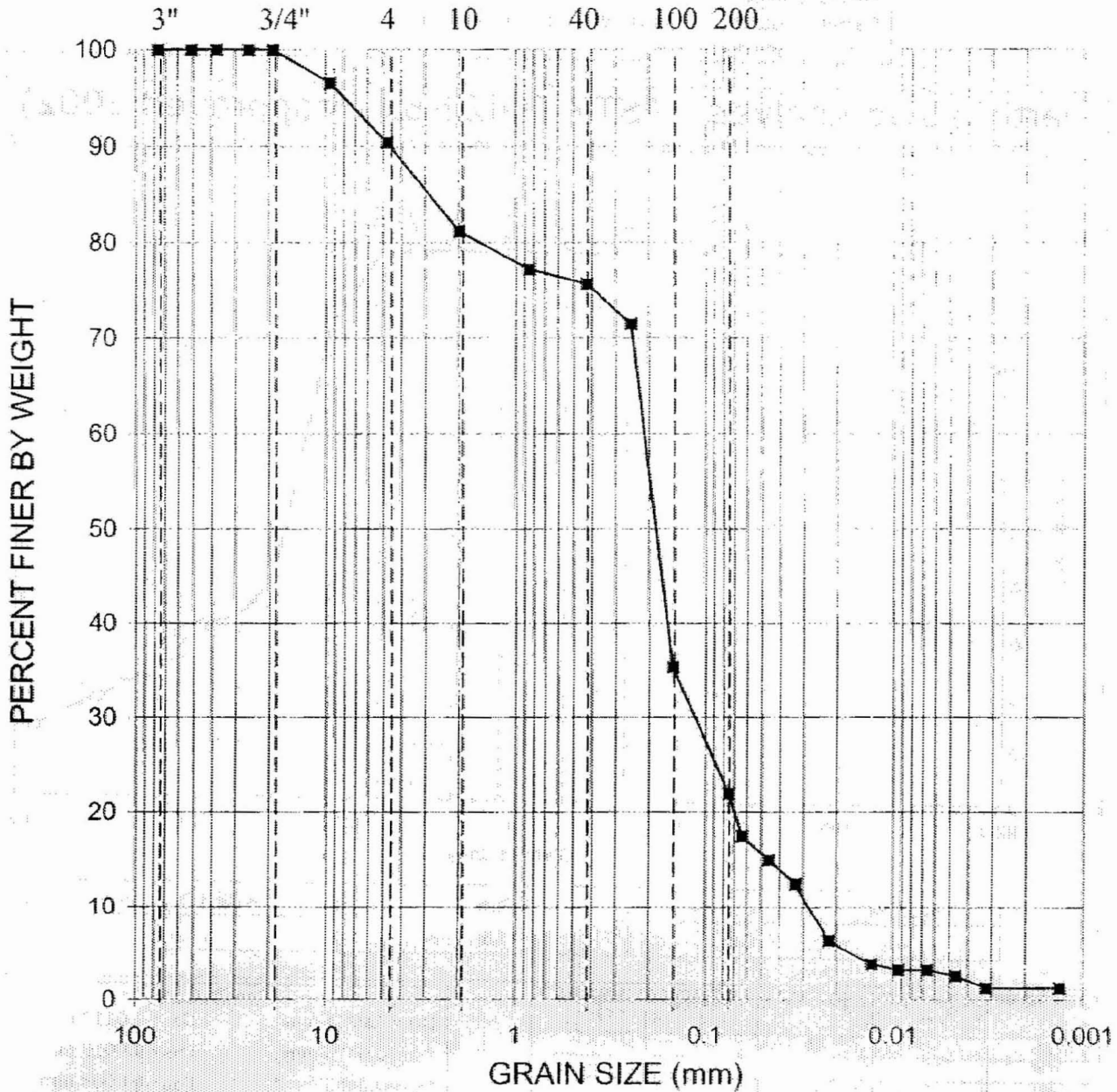


GRADATION CURVE

ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048.00		Date: 9/7/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-328	43.5	Poorly Graded SAND, with silt, trace shells, dark gray	SP-SM	NP	NP		

U.S. Standard Sieve Nos.



GRAVEL

SAND

SILT OR CLAY

GRADATION CURVE

ASTM D422

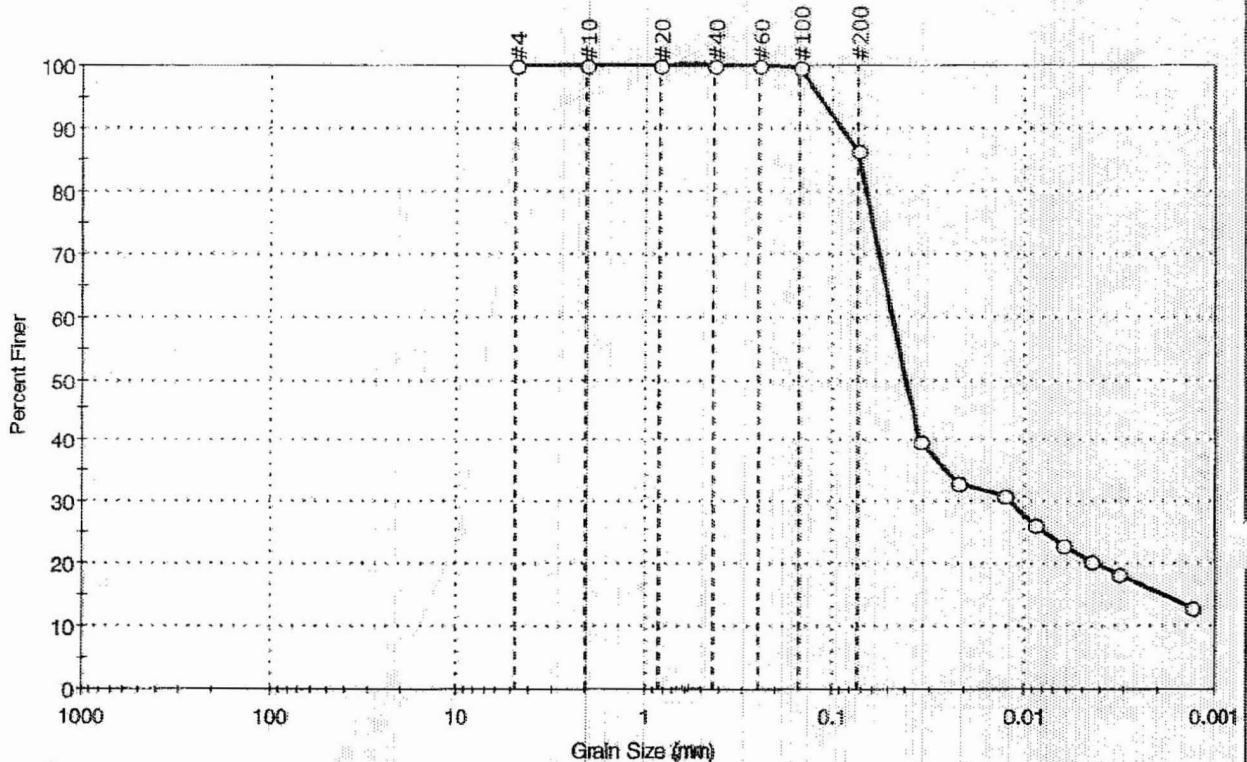
Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.	06120048.00	Date:	8/26/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
B-328	53.5	Silty SAND, trace shells, green	SM				

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Client: Schnabel Engineering, Inc.	Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Project No: GTX-6880
Location: Calvert County, MD	Boring ID: B-328	Sample Type: tube
Sample ID: S-16	Test Date: 10/17/06	Tested By: sam
Depth: 63.5-65.5 ft	Test ID: 95788	Checked By: mcm
Test Comment: ---	Sample Description: Moist, dark gray organic silt	
Sample Comment: ---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	0.0	13.5	86.5

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	100		
#200	0.074	87		
	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0340	40		
---	0.0217	33		
---	0.0125	31		
---	0.0088	26		
---	0.0063	23		
---	0.0045	20		
---	0.0032	18		
---	0.0013	13		

Coefficients

D ₈₅ = 0.0721 mm	D ₃₀ = 0.0117 mm
D ₆₀ = 0.0476 mm	D ₁₅ = 0.0019 mm
D ₅₀ = 0.0403 mm	D ₁₀ = 0.0008 mm
C _u = N/A	C _c = N/A

Classification

ASTM organic silt (OH)

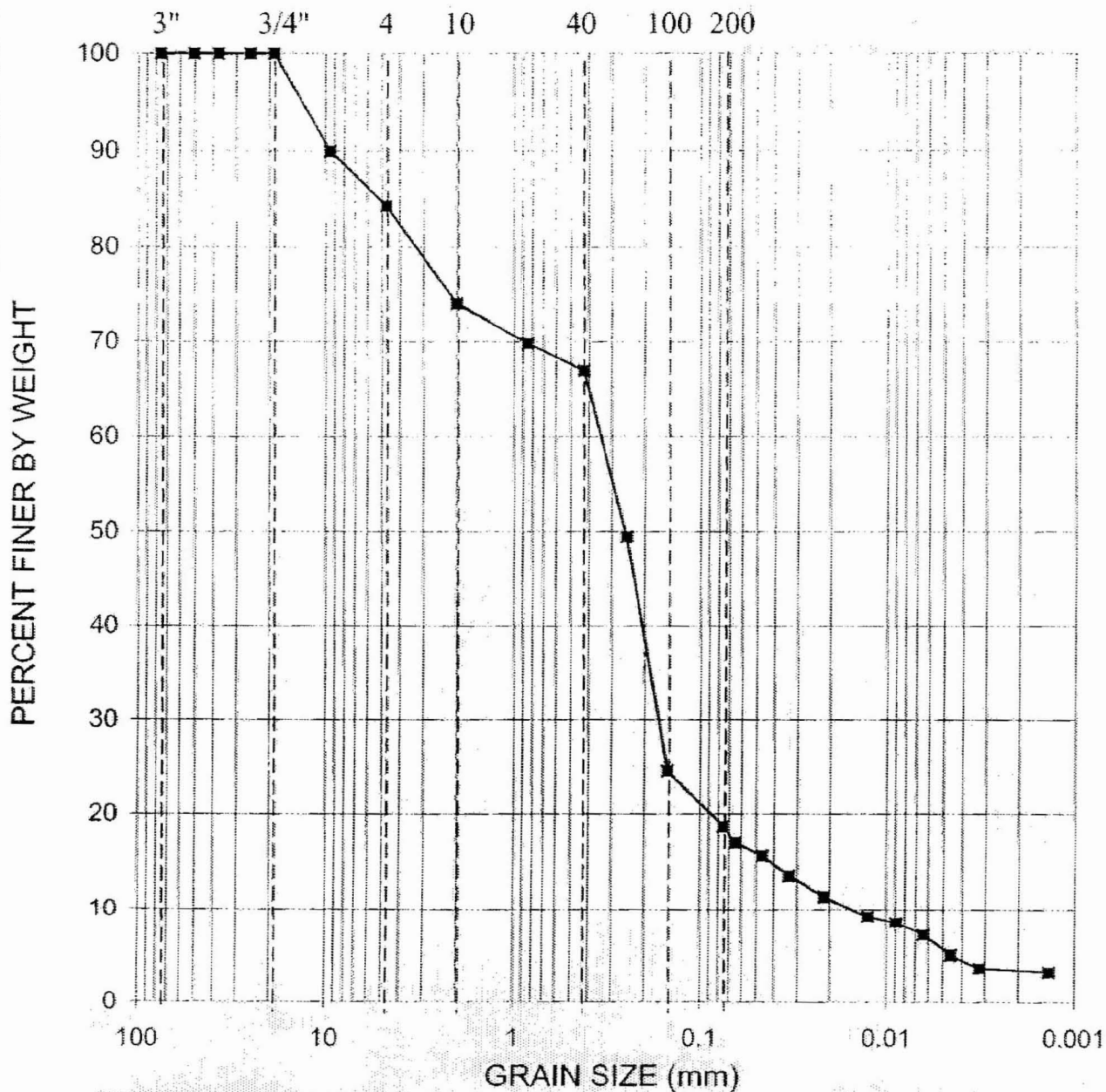
AASHTO Clayey Soils (A-7-5 (36))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

U.S. Standard Sieve Nos.



GRAVEL

SAND

SILT OR CLAY

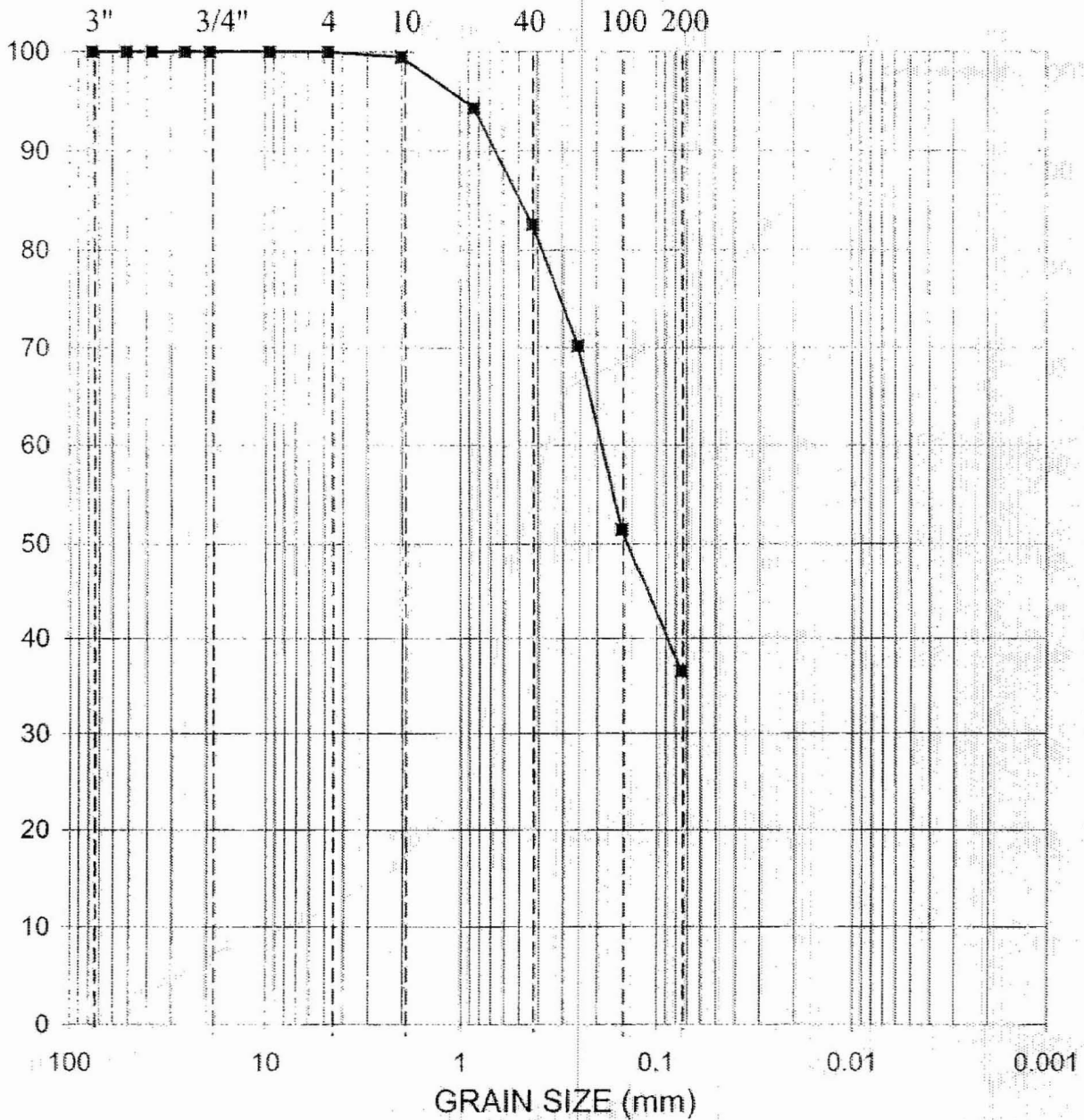
GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/8/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-328	83.5	Silty SAND, with shells, gray	SM	NP	NP		

PERCENT FINER BY WEIGHT

U.S. Standard Sieve Nos.



GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	8/22/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-328	103.5	Silty SAND, dark green	SM				

Client: Schnabel Engineering, Inc.

Project: Subsurface Investigation Calvert Cliffs Nuclear PP

Location: Calvert County, MD

Project No: GTX-6880

Boring ID: B-328

Sample Type: tube

Tested By: sam

Sample ID: S-28

Test Date: 09/12/06

Checked By: mcm

Depth: 123.5-125.5 ft

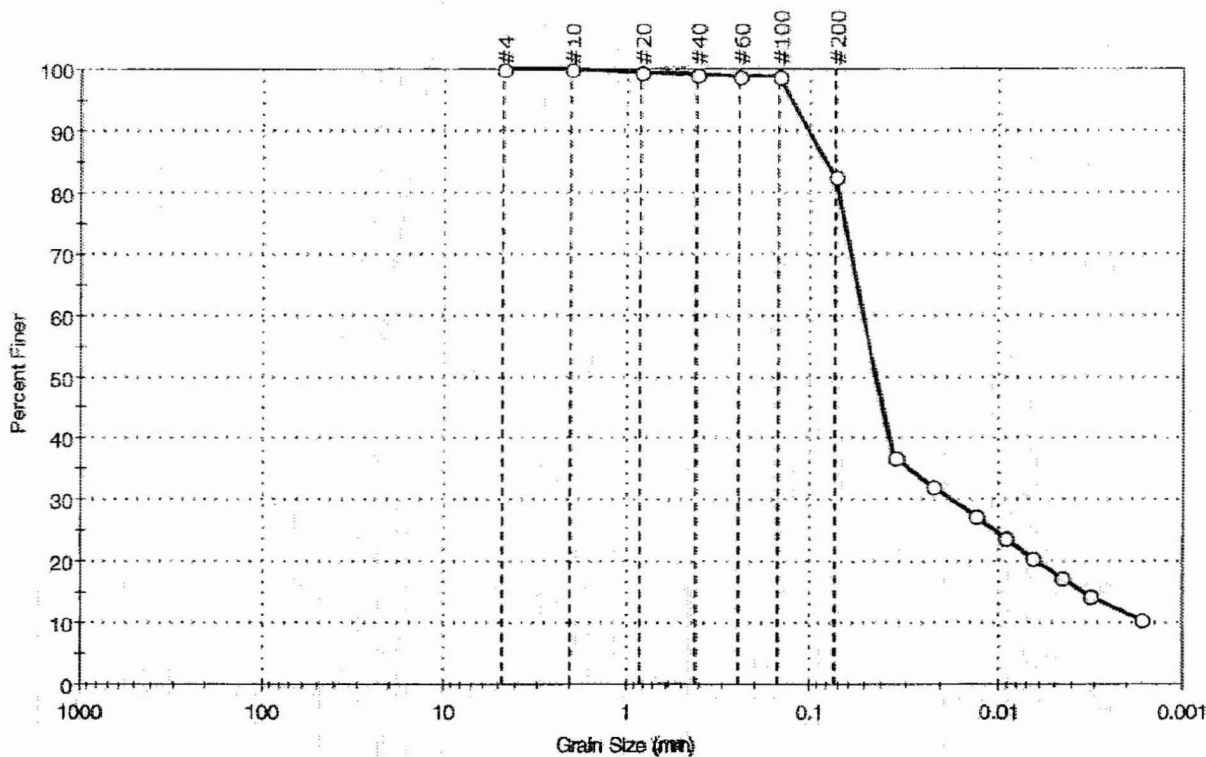
Test ID: 97096

Test Comment: ---

Sample Description: Moist, olive gray silt with sand

Sample Comment: ---

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	0.0	17.4	82.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	99		
#40	0.42	99		
#60	0.25	99		
#100	0.15	99		
#200	0.074	83		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0349	37		
---	0.0224	32		
---	0.0130	28		
---	0.0093	24		
---	0.0066	21		
---	0.0046	17		
---	0.0032	14		
---	0.0017	11		

Coefficients

$D_{65} = 0.0821$ mm $D_{30} = 0.0173$ mm
 $D_{60} = 0.0510$ mm $D_{15} = 0.0035$ mm
 $D_{50} = 0.0432$ mm $D_{10} = 0.0015$ mm
 $C_u = N/A$ $C_c = N/A$

Classification

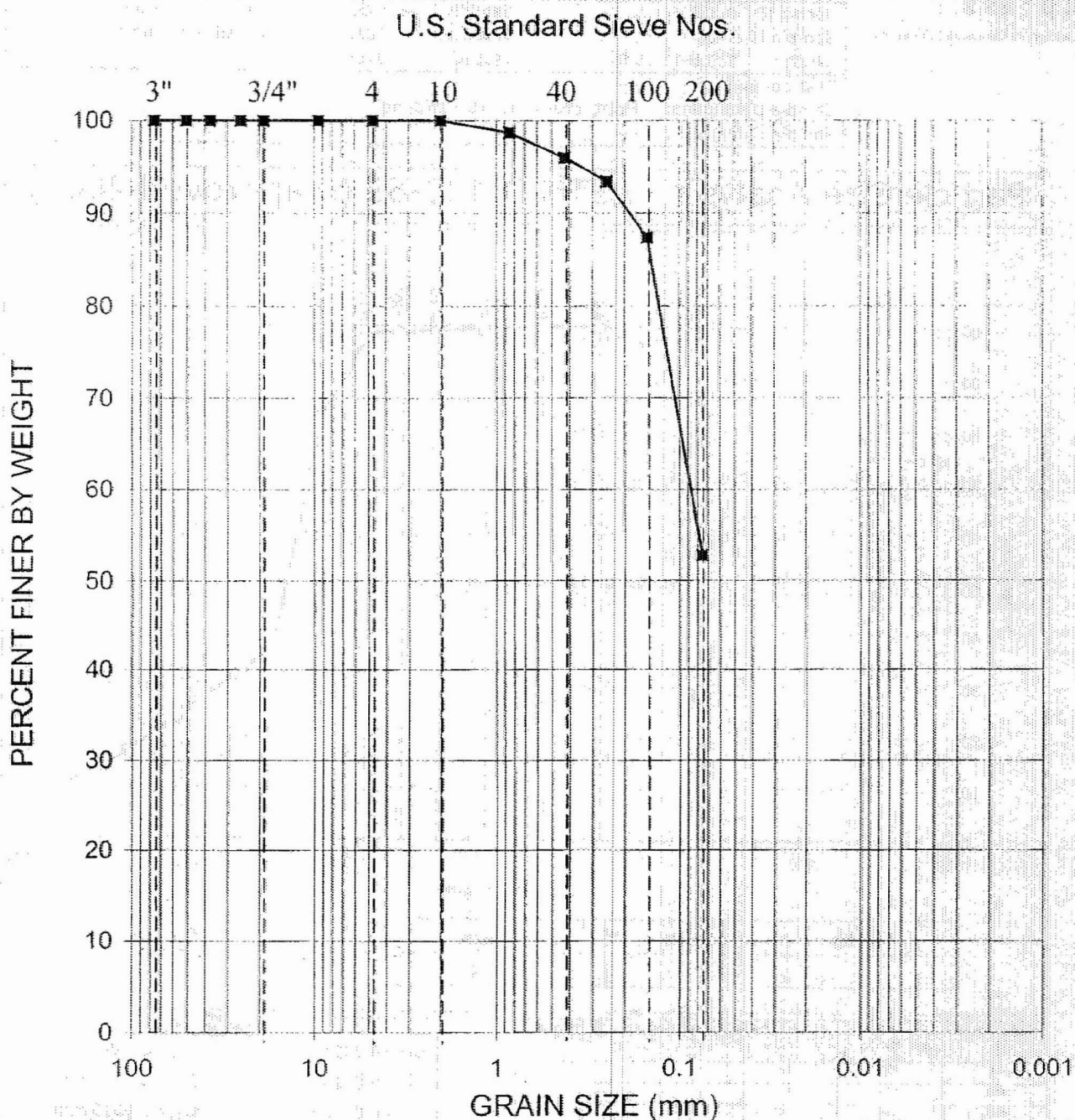
ASTM elastic silt with sand (MH)

AASHTO Clayey Soils (A-7-5 (32))

Sample/Test Description

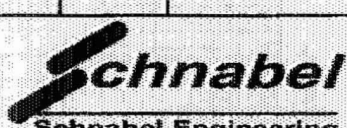
Sand/Gravel Particle Shape: ---

Sand/Gravel Hardness: ---

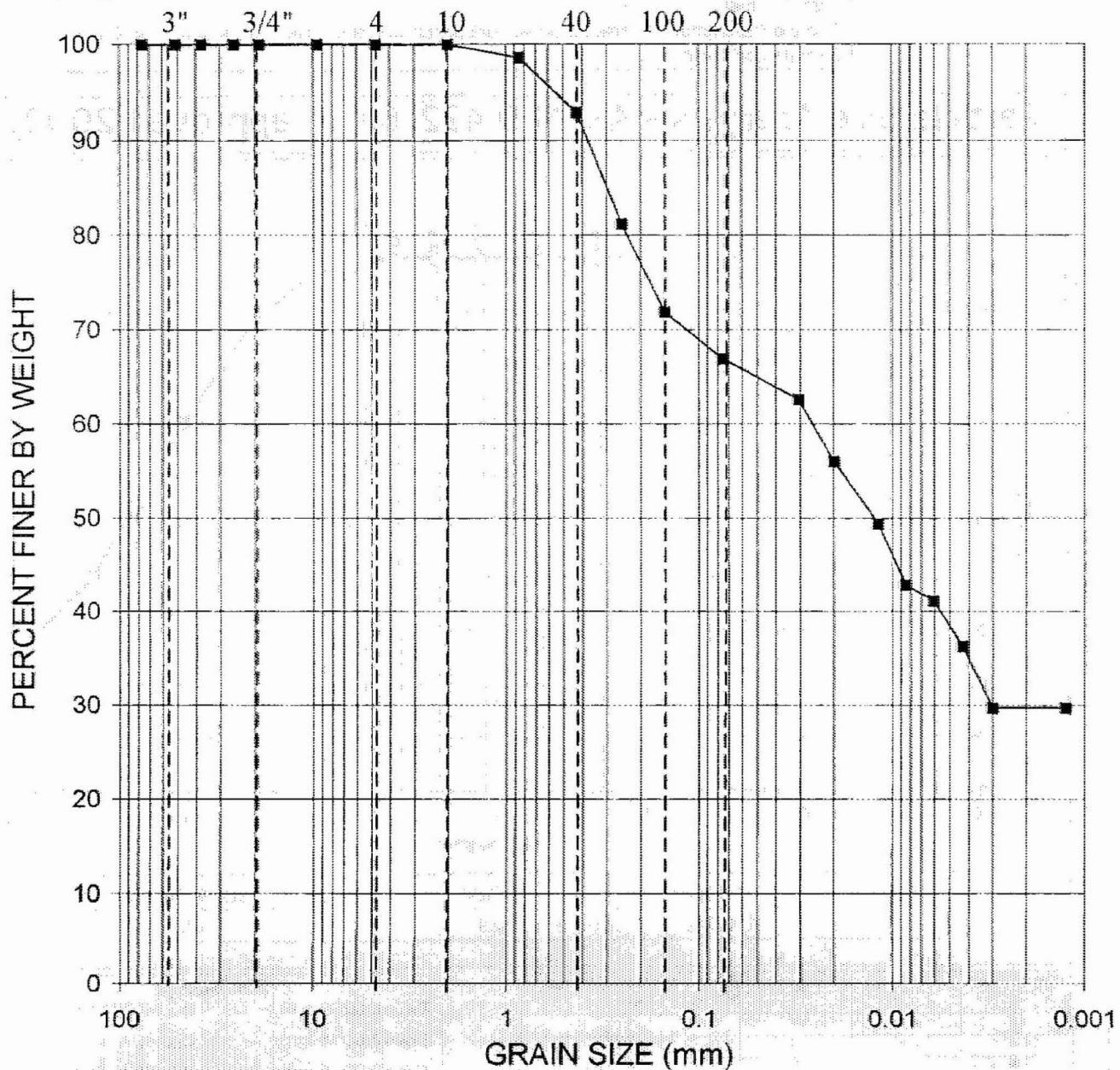


GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	8/28/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-328	133.5	SANDY ELASTIC SILT, dark green	MH	70	19		

U.S. Standard Sieve Nos.



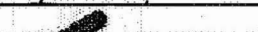
GRAVEL

SAND

SILT OR CLAY

GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	10/11/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	 Schnabel Engineers	
B-331	5	Sandy LEAN CLAY, brown	CL	43	28		



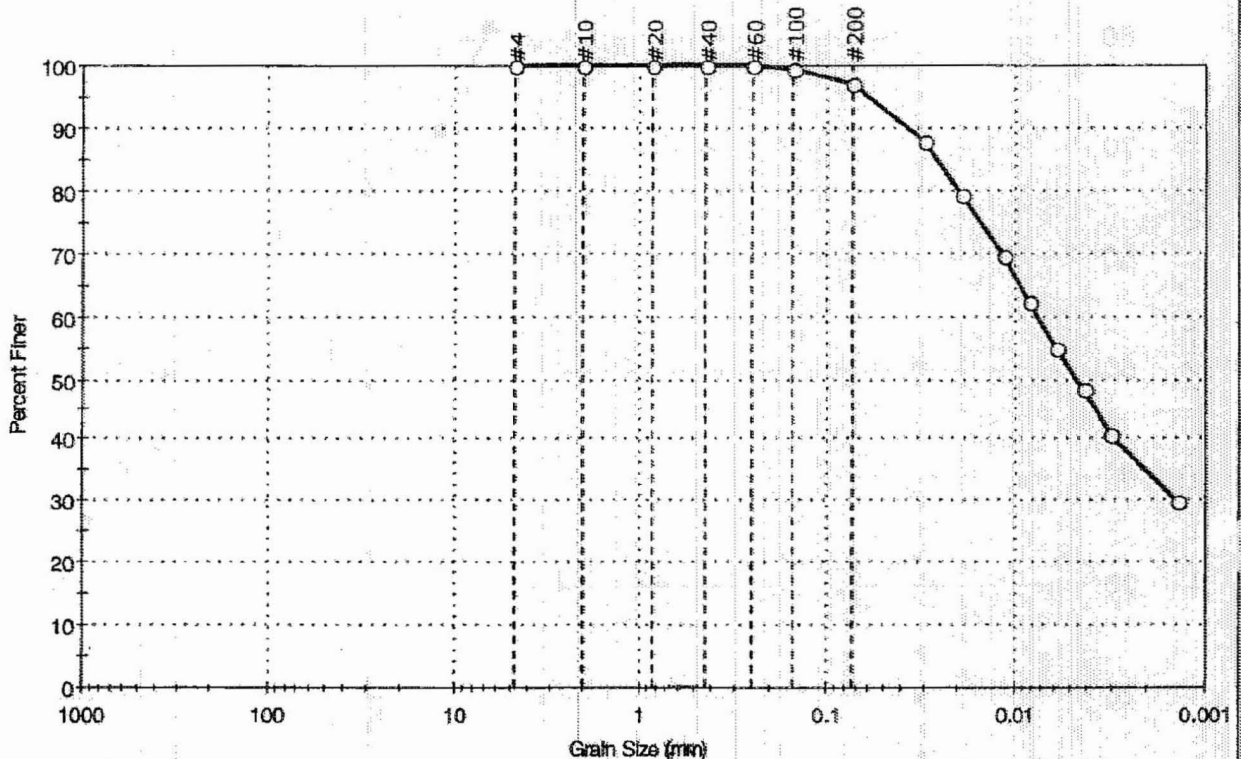
Schnabel
Schnabel Engineering

GeoTesting express

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Client:	Schnabel Engineering, Inc.	Project No:	GTX-6880
Project:	Subsurface Investigation Calvert Cliffs Nuclear PP	Tested By:	sam
Location:	Calvert County, MD	Checked By:	mcm
Boring ID:	B-331	Sample Type:	tube
Sample ID:	S-7	Test Date:	10/17/06
Depth:	18.5-20.5 ft	Test Id:	100409
Test Comment:	---		
Sample Description:	Moist, mottled dark greenish gray, dusky red, and reddish brown clay		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	2.9	97.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	99		
#200	0.074	97		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0300	88		
---	0.0192	79		
---	0.0113	69		
---	0.0082	62		
---	0.0059	55		
---	0.0042	48		
---	0.0030	41		
---	0.0014	30		

Coefficients

D ₈₅ = 0.0258 mm	D ₃₀ = 0.0014 mm
D ₆₀ = 0.0074 mm	D ₁₅ = N/A
D ₅₀ = 0.0046 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

Classification

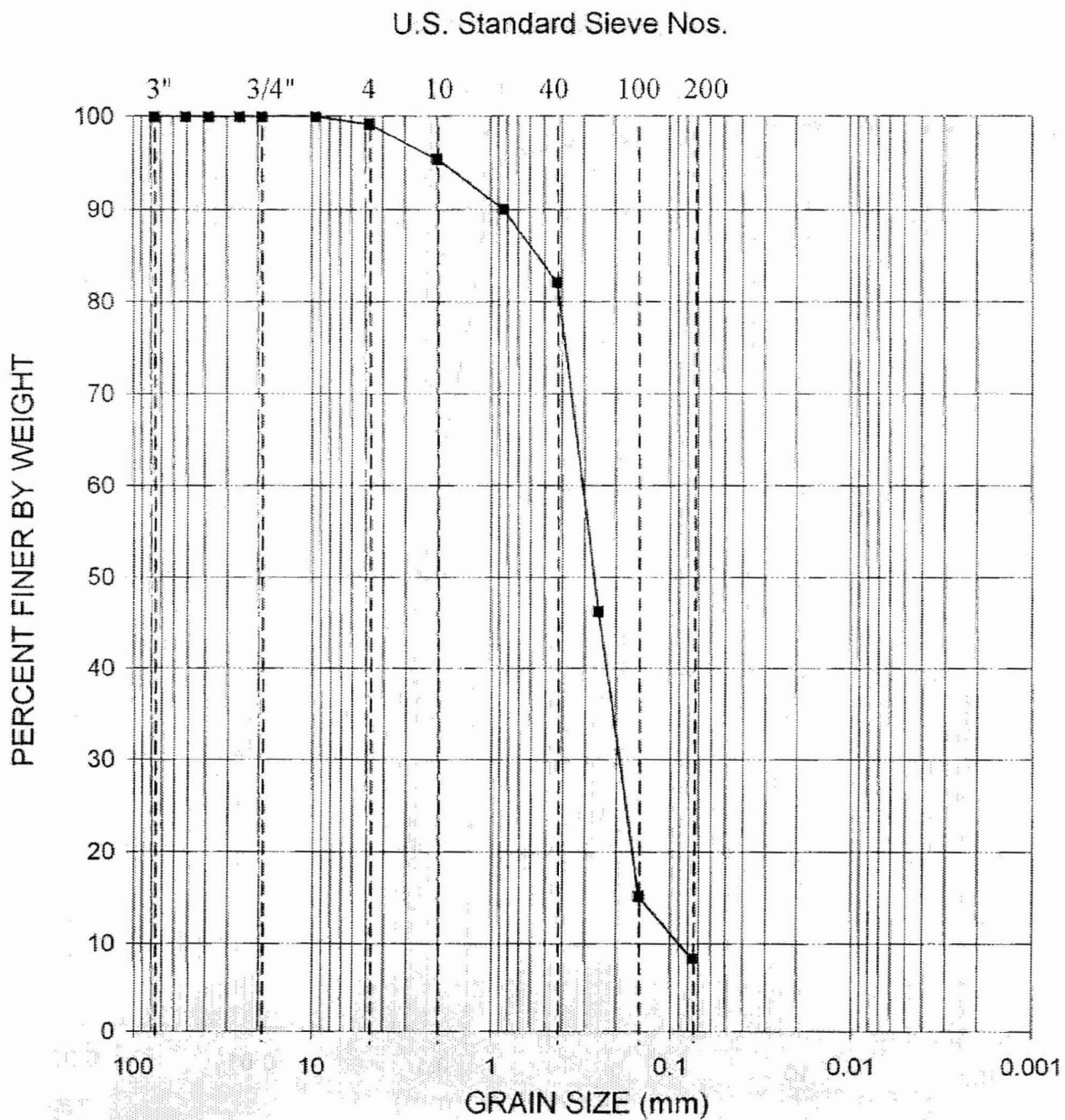
ASTM fat clay (CH)

AASHTO Clayey Soils (A-7-6 (41))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

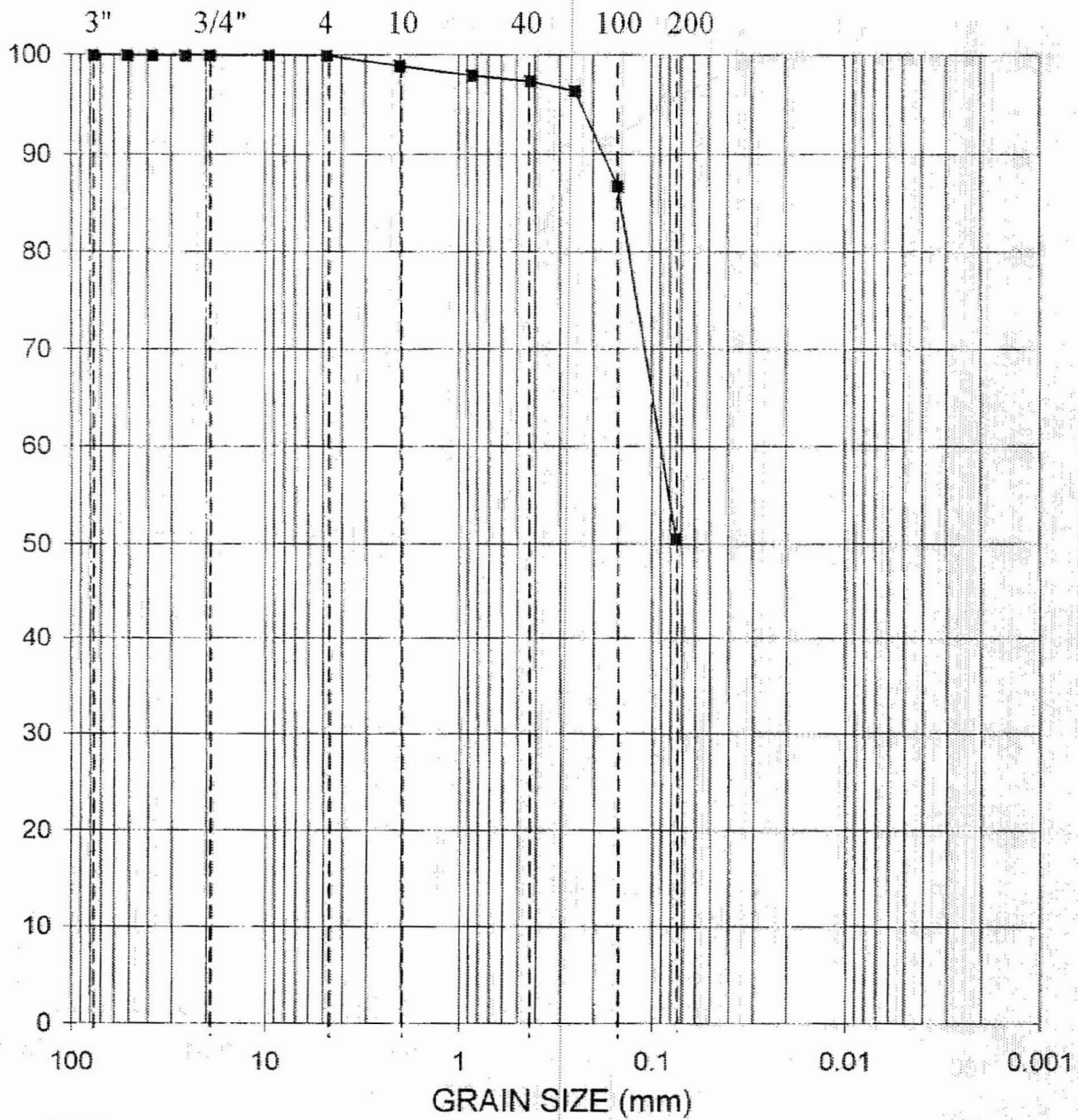


GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	10/3/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-331	33.5	Poorly Graded SAND, with silt, trace shells, dark green	SP-SM				

PERCENT FINER BY WEIGHT

U.S. Standard Sieve Nos.



GRAVEL

SAND

SILT OR CLAY

GRADATION CURVE

ASTM D422

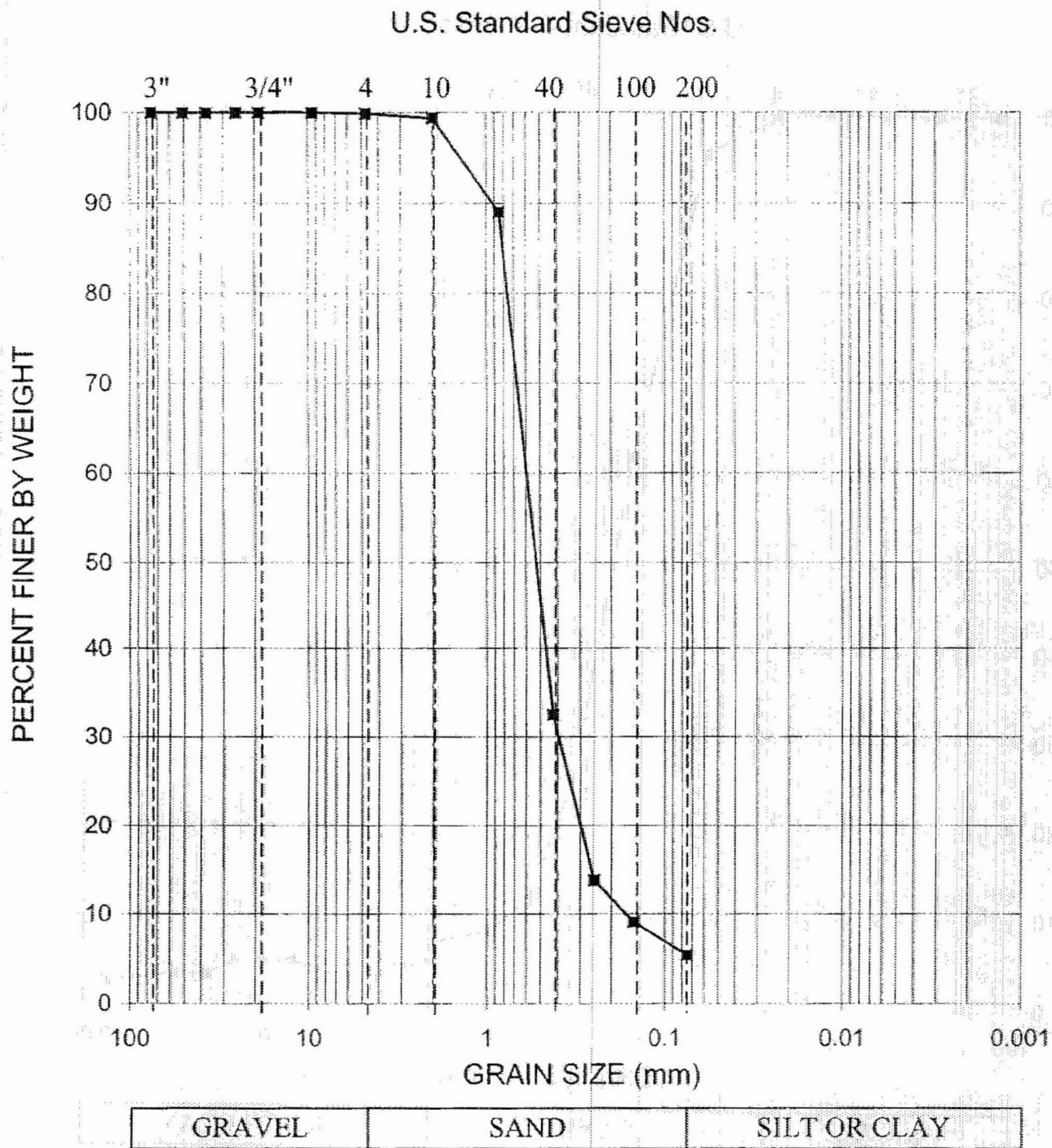
Project	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland				Contract No.: 06120048.00	Date:	10-03-06
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
B-331	43.5	Sandy SILT, contains shells, gray	SM				

PERCENT FINER BY WEIGHT



ASTM D422

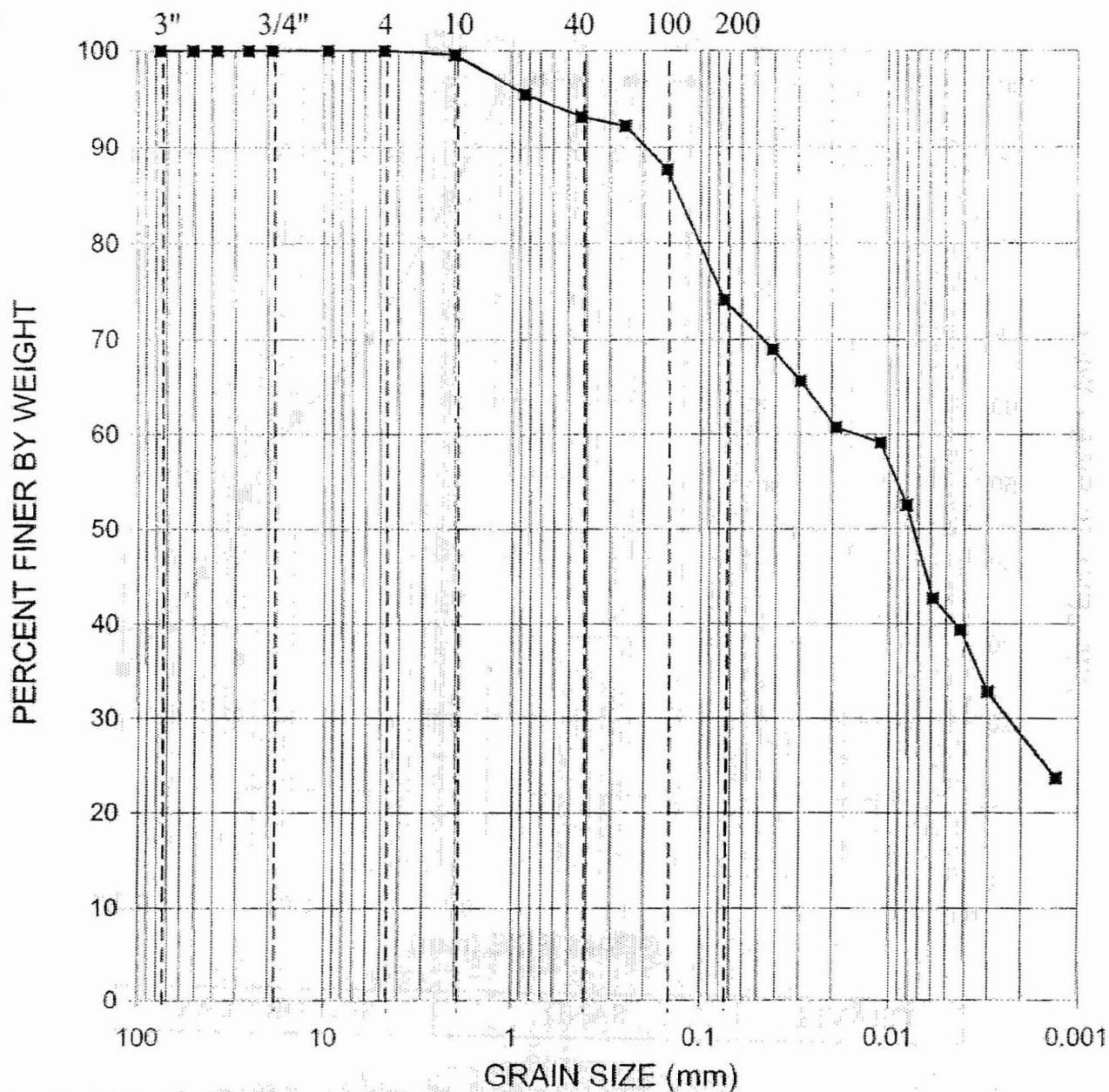
Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048.00		Date: 8/26/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-333	2.5	Poorly Graded SAND, with silt, brown	SP-SM				



GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	8/22/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-333	7.5	Poorly Graded SAND, with silt, tan	SP-SM				

U.S. Standard Sieve Nos.



GRAVEL

SAND

SILT OR CLAY

GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland				Contract No.:	06120048.00	Date:	9/8/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI			
B-333	23.5	FAT CLAY, with sand, dark gray	CH	57	24			