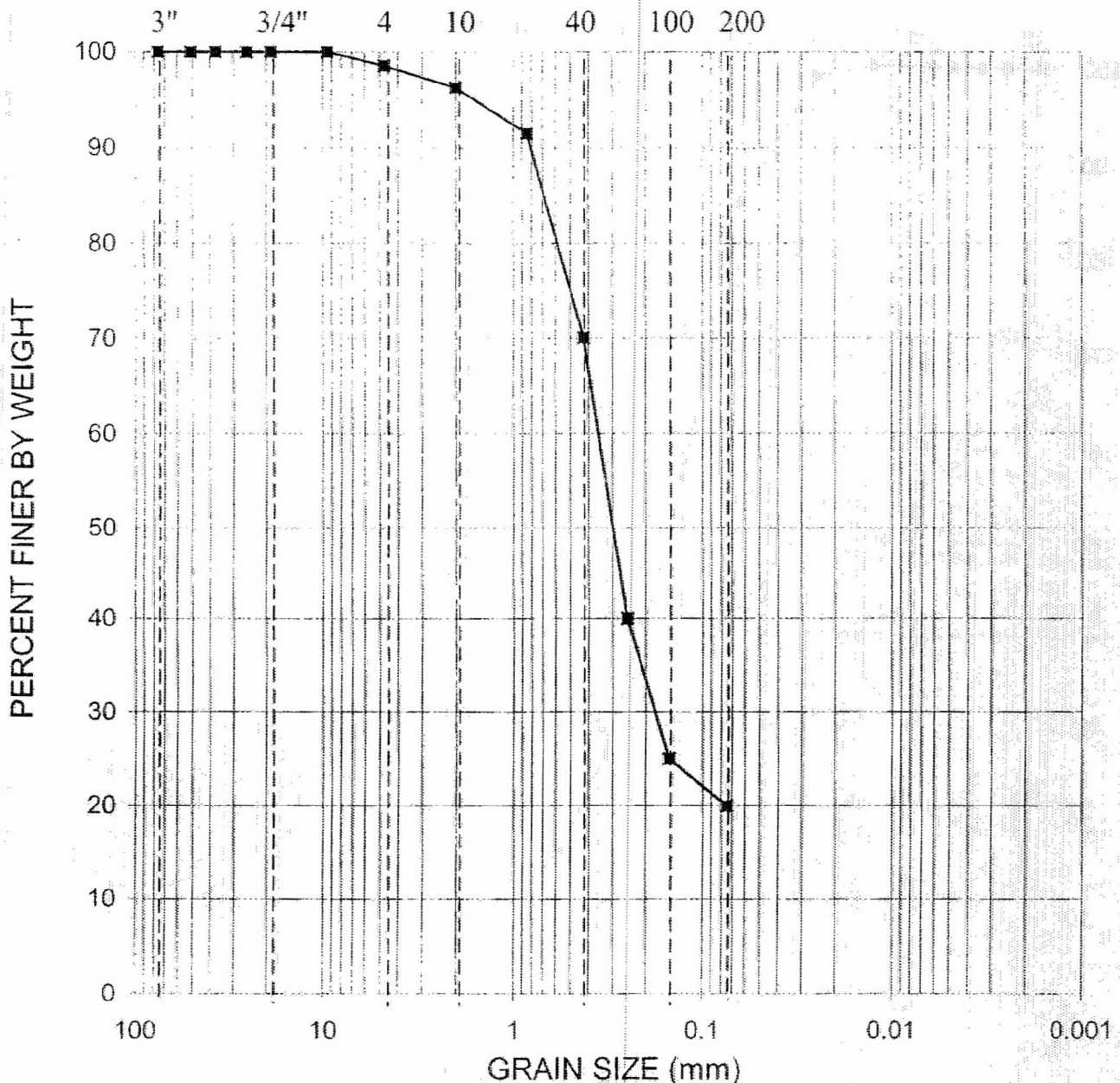


U.S. Standard Sieve Nos.



GRAVEL SAND SILT OR CLAY

GRADATION CURVE
ASTM D422

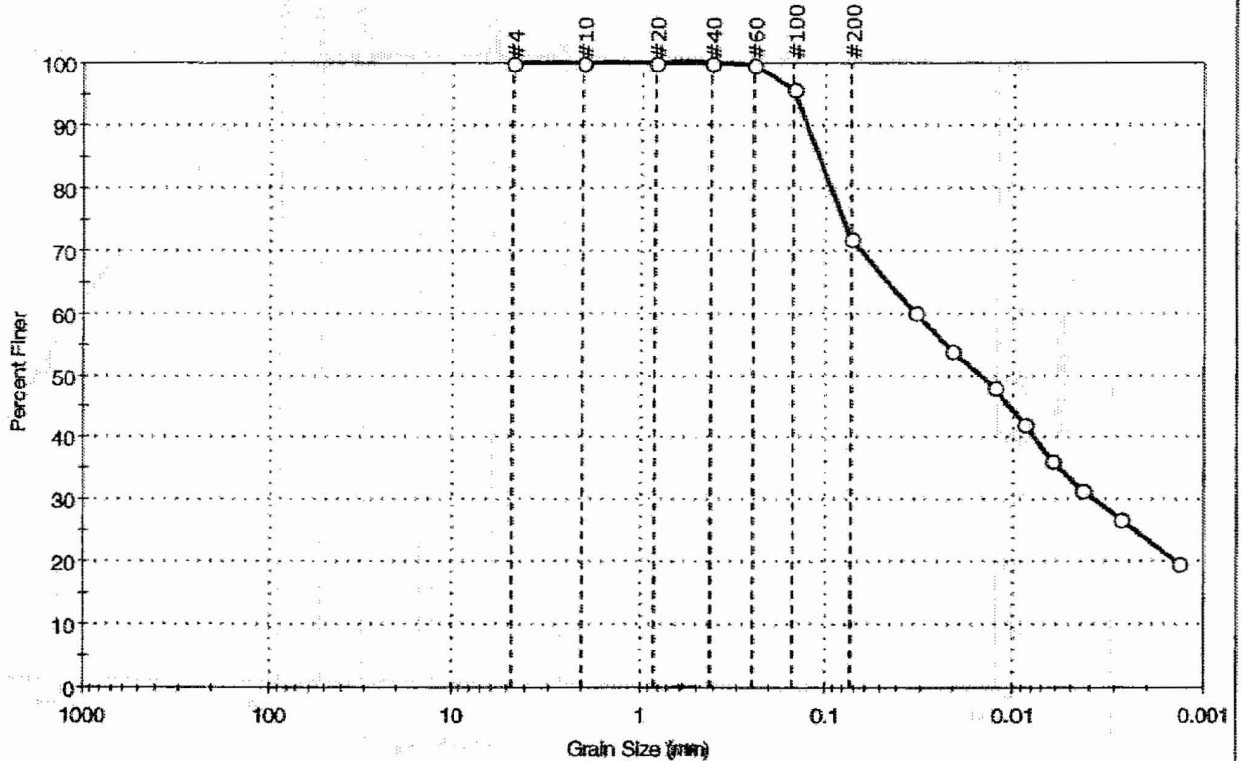
Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:		06120048.00	Date:		8/21/2006
Boring No.	Depth (ft)	Sample Description			Class.	LL	PI			
B-319	23.5	Clayey SAND, trace gravel, light brown			SC					

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Client: Schnabel Engineering, Inc.	Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Location: Calvert County, MD	Project No: GTX-6880
Boring ID: B-319	Sample Type: tube	Tested By: sam	Checked By: mcm
Sample ID: S-10	Test Date: 09/08/06	Test ID: 95775	
Depth: 33.5-35.5 ft			
Test Comment: ---			
Sample Description: Moist, dark gray clay with sand			
Sample Comment: ---			

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	28.0	72.0

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	96		
#200	0.074	72		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0328	60		
---	0.0207	54		
---	0.0122	48		
---	0.0087	42		
---	0.0063	36		
---	0.0044	32		
---	0.0028	27		
---	0.0014	20		

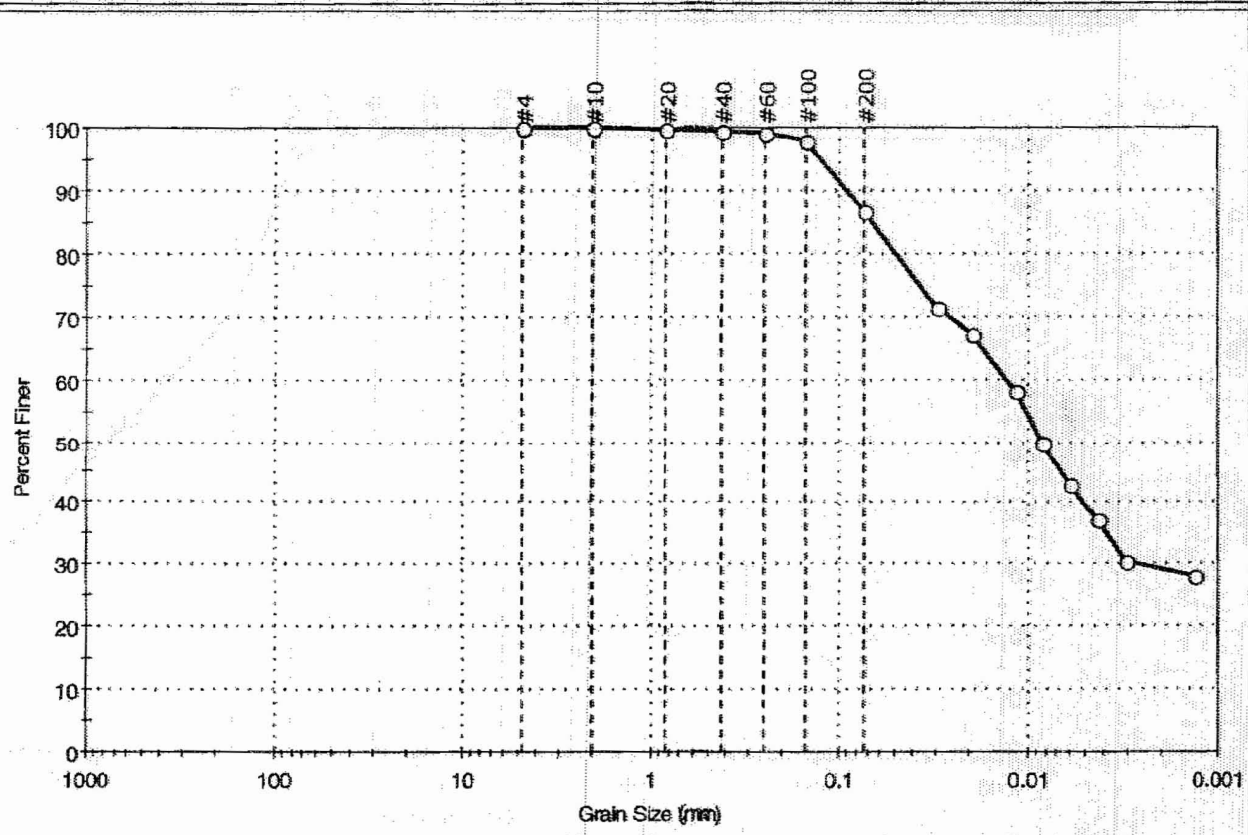
Coefficients	
D ₈₅ = 0.1081 mm	D ₃₀ = 0.0038 mm
D ₆₀ = 0.0326 mm	D ₁₅ = N/A
D ₅₀ = 0.0145 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

Classification	
ASTM	lean clay with sand (CL)
AASHTO	Clayey Soils (A-7-6 (28))

Sample/Test Description	
Sand/Gravel Particle Shape :	---
Sand/Gravel Hardness :	---

Client: Schnabel Engineering, Inc.
 Project: Subsurface Investigation Calvert Cliffs Nuclear PP
 Location: Calvert County, MD
 Project No: GTX-6880
 Boring ID: B-319
 Sample Type: tube
 Tested By: sam
 Sample ID: S-12
 Test Date: 09/07/06
 Checked By: mcm
 Depth: 43.5-45.2 ft
 Test Id: 95776
 Test Comment: ---
 Sample Description: Moist, dark gray clay
 Sample Comment: ---

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	0.0	13.3	86.7

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	99		
#60	0.25	99		
#100	0.15	98		
#200	0.074	87		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0250	71		
---	0.0190	67		
---	0.0114	58		
---	0.0083	50		
---	0.0060	43		
---	0.0043	37		
---	0.0031	30		
---	0.0013	28		

Coefficients

D ₆₅ = 0.0670 mm	D ₃₀ = 0.0027 mm
D ₆₀ = 0.0127 mm	D ₁₅ = N/A
D ₅₀ = 0.0083 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

Classification

ASTM fat clay (CH)

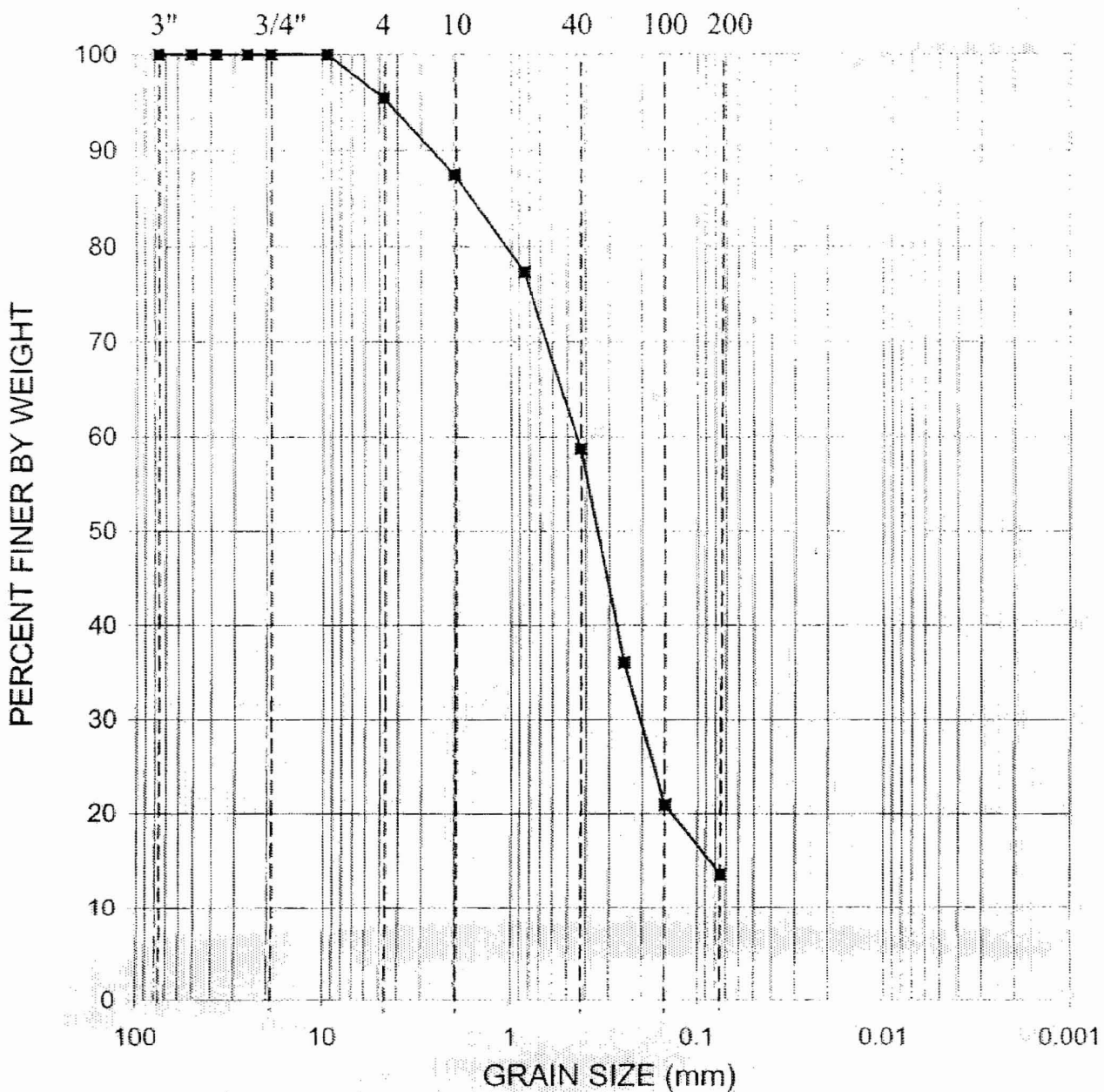
AASHTO Clayey Soils (A-7-6 (46))

Sample / Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---


U.S. Standard Sieve Nos.



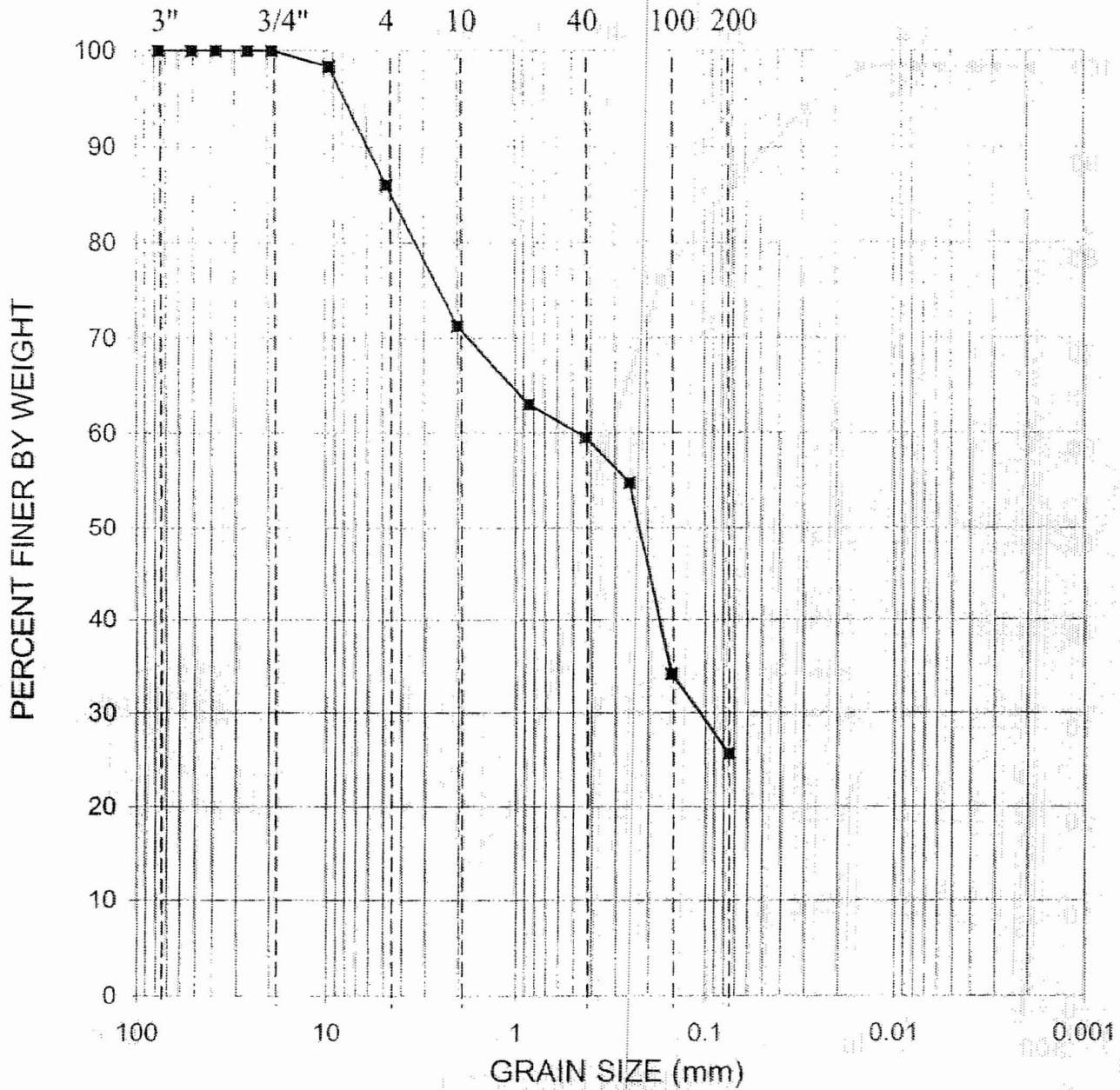
GRAVEL SAND SILT OR CLAY

GRADATION CURVE

ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No. 06120048.00		Date: 8/21/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-319	73.5	Silty SAND, trace shells, gray	SM				

U.S. Standard Sieve Nos.

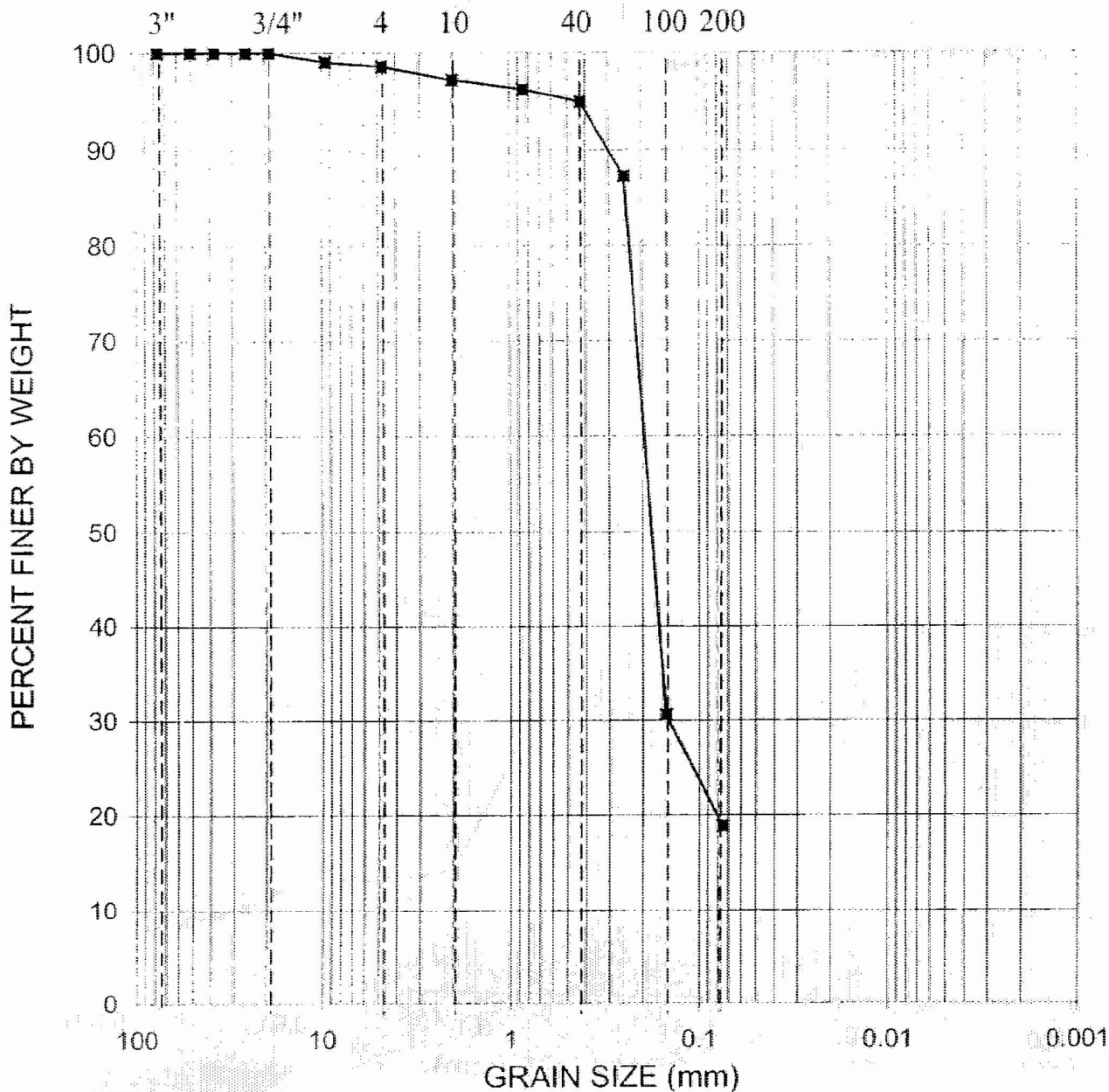


GRAVEL SAND SILT OR CLAY

GRADATION CURVE
ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048.00		Date: 8/21/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-319	83.5	Silty SAND, trace cemented sand , green	SM				

U.S. Standard Sieve Nos.

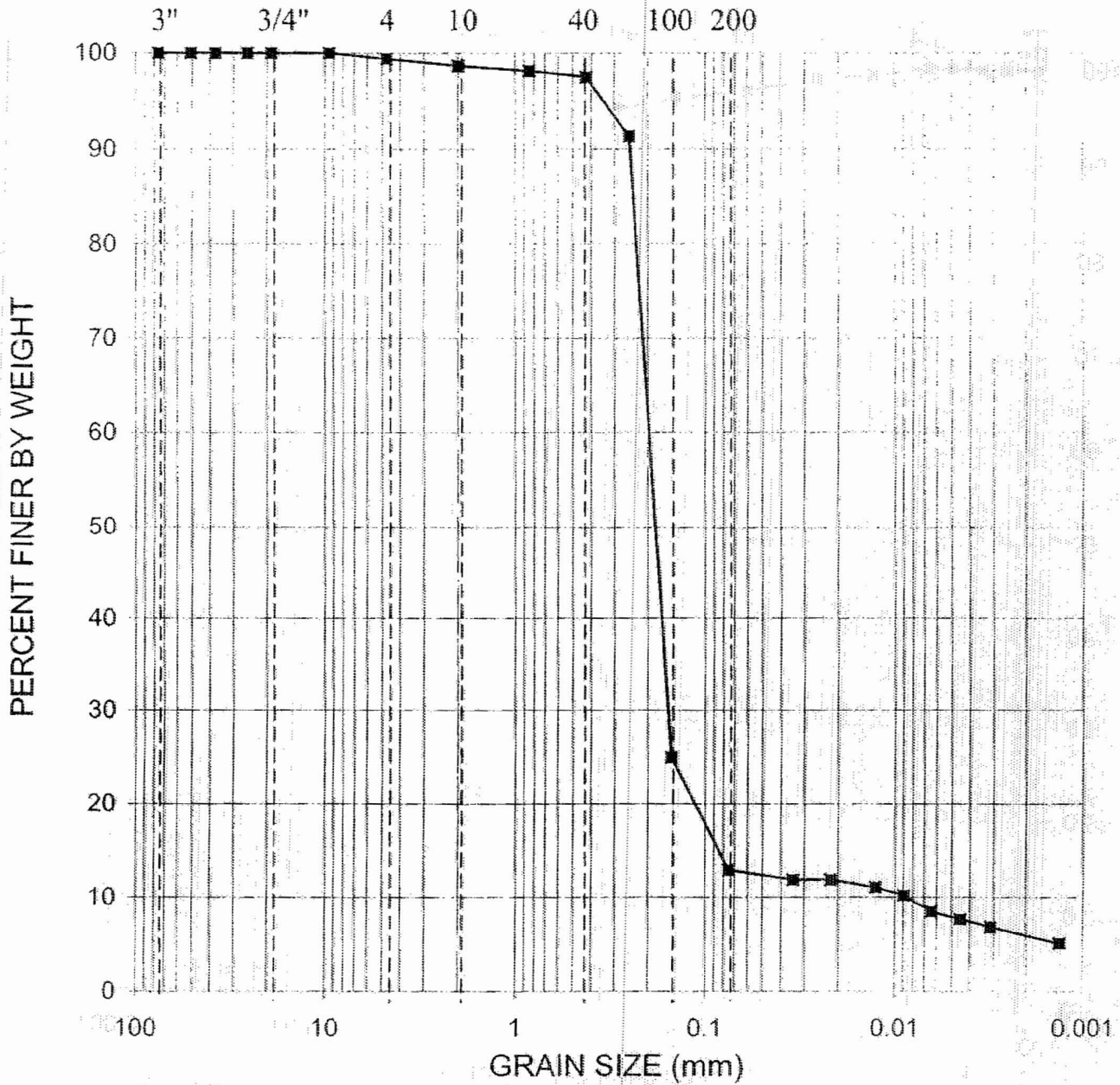


GRAVEL SAND SILT OR CLAY

GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland.		Contract No.:	06120048.00	Date:	8/21/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	
B-319	88.5	Silty SAND, trace shells, gray	SM			

U.S. Standard Sieve Nos.



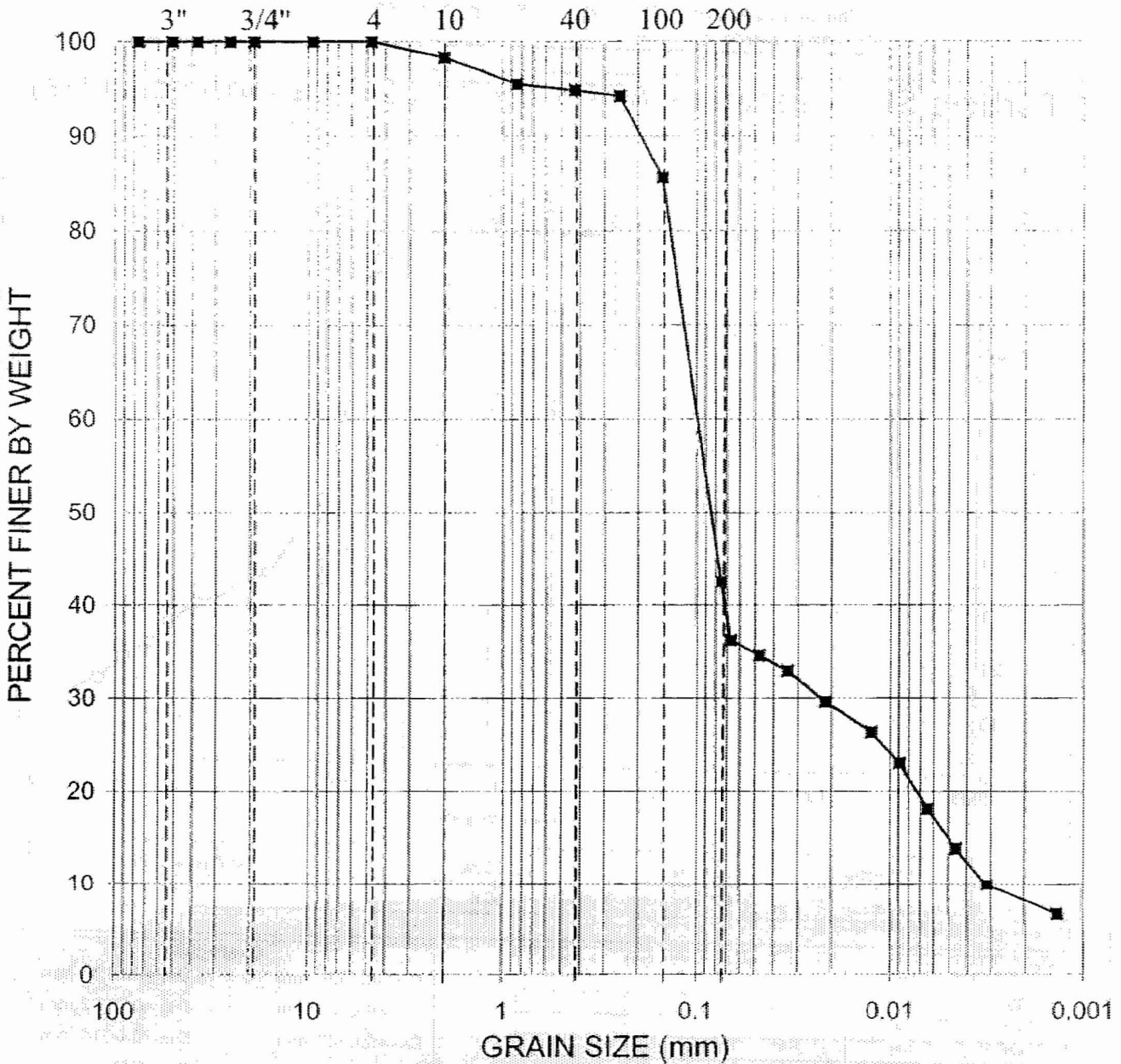
GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland	Contract No.: 06120048.00	Date: 8/31/2006
Boring No.	Depth (ft)	Sample Description	Class. LL PI
B-319	98.5	Silty SAND, trace shells, dark green	SM NP NP



U.S. Standard Sieve Nos.



GRAVEL SAND SILT OR CLAY

GRADATION CURVE
ASTM D422

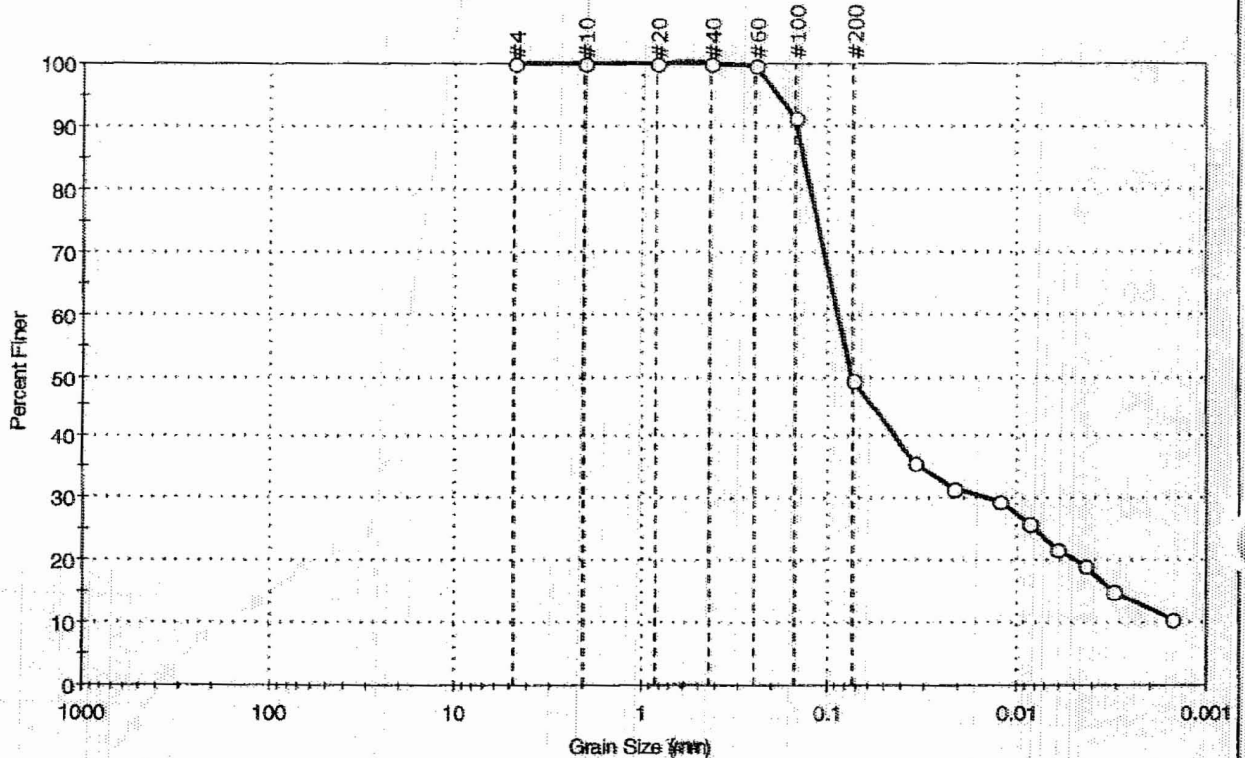
Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048.00		Date: 8/31/2006	
Boring No.	Depth (ft)	Sample Description		Class.	LL	PI	
B-320	33.5	Clayey SAND, dark gray		SC	33	15	

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Client: Schnabel Engineering, Inc.	Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Location: Calvert County, MD	Project No: GTX-6880
Boring ID: B-320	Sample Type: tube	Tested By: sam	
Sample ID: S-11	Test Date: 10/12/06	Checked By: mcm	
Depth: 38.5-40.5 ft	Test Id: 100202		
Test Comment: ---			
Sample Description: Moist, very dark gray clayey sand			
Sample Comment: ---			

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	50.6	49.4

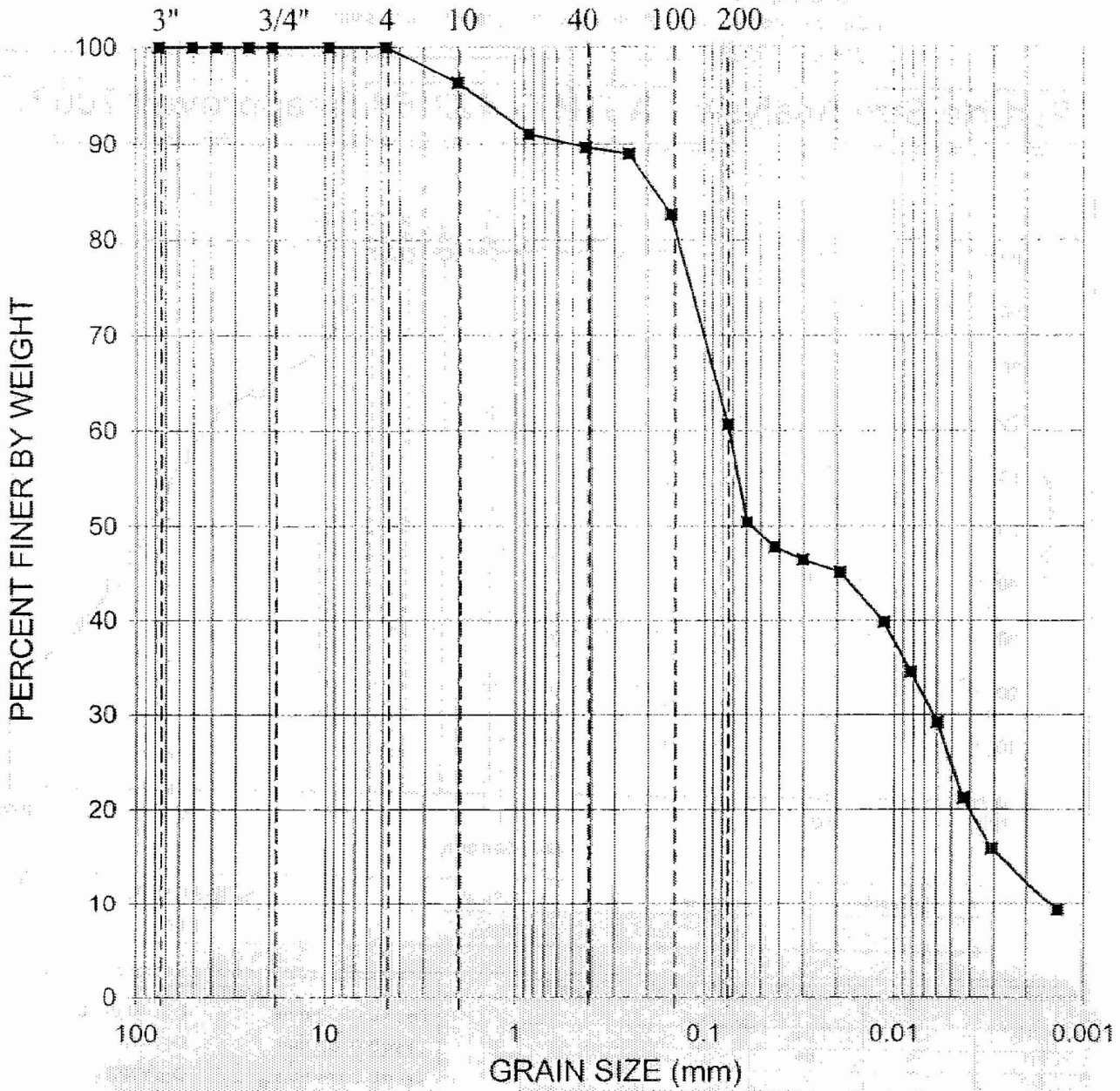
Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	92		
#200	0.075	49		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0335	36		
---	0.0211	32		
---	0.0122	30		
---	0.0086	26		
---	0.0062	22		
---	0.0044	19		
---	0.0032	15		
---	0.0015	11		

Coefficients	
D ₈₅ = 0.1336 mm	D ₃₀ = 0.0137 mm
D ₆₀ = 0.0882 mm	D ₁₅ = 0.0032 mm
D ₅₀ = 0.0747 mm	D ₁₀ = 0.0014 mm
C _u = N/A	C _c = N/A

Classification	
ASTM	Clayey sand (SC)
AASHTO	Clayey Soils (A-6 (8))

Sample/Test Description	
Sand/Gravel Particle Shape :	---
Sand/Gravel Hardness :	---

U.S. Standard Sieve Nos.



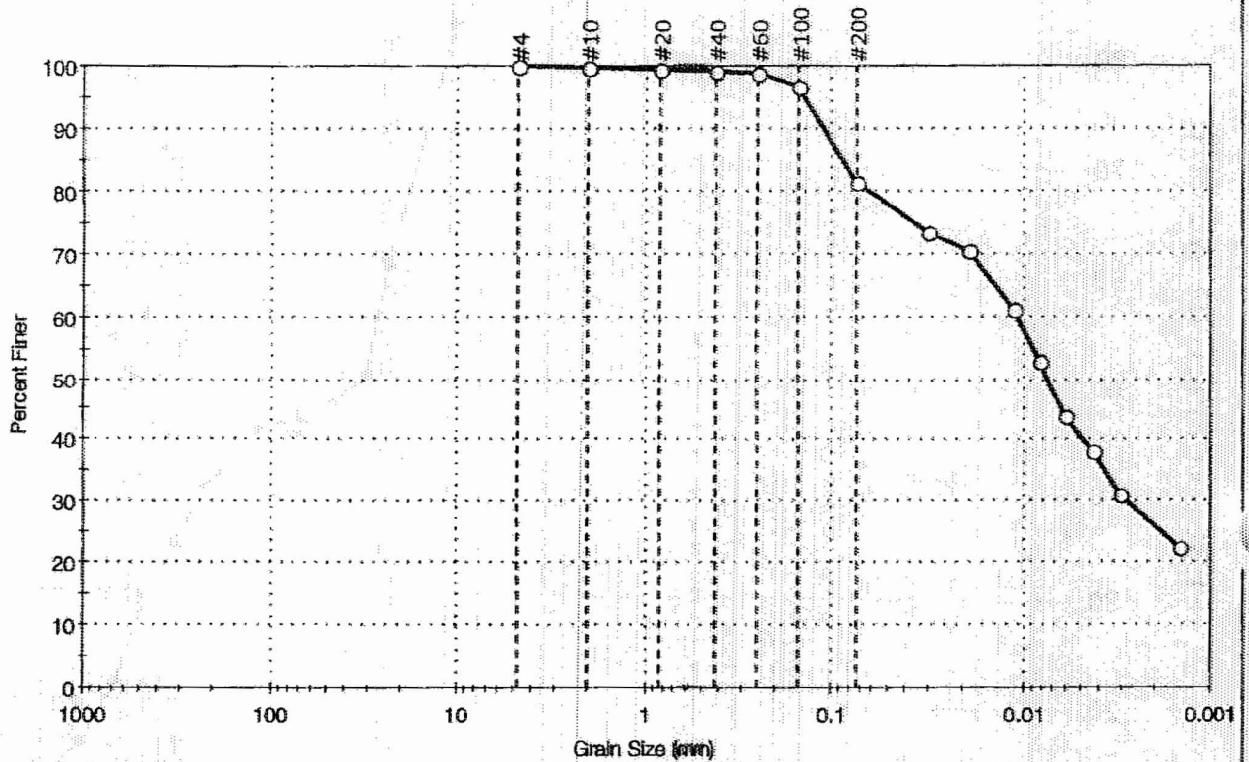
GRAVEL SAND SILT OR CLAY

GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/6/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-320	43.5	Sandy FAY CLAY, dark gray	CH	56	37		

Client: Schnabel Engineering, Inc.
 Project: Subsurface Investigation Calvert Cliffs Nuclear PP
 Location: Calvert County, MD
 Project No: GTX-6880
 Boring ID: B-320
 Sample Type: tube
 Tested By: sam
 Sample ID: S-13
 Test Date: 09/29/06
 Checked By: mcm
 Depth: 48.5-50.0 ft
 Test ID: 95767
 Test Comment: ---
 Sample Description: Moist, dark olive gray clay with sand
 Sample Comment: ---

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	18.5	81.5

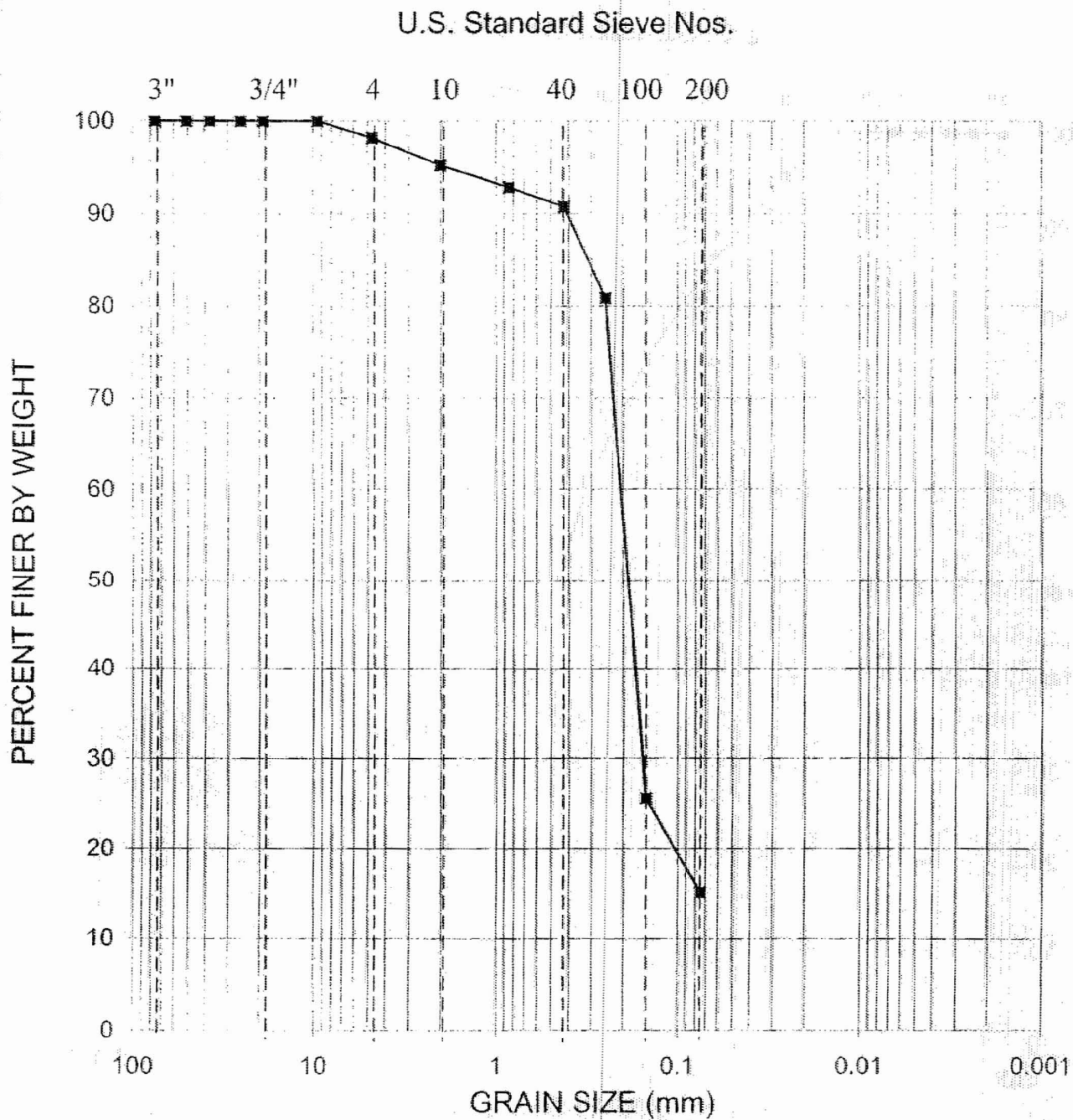
Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	99		
#40	0.42	99		
#60	0.25	99		
#100	0.15	97		
#200	0.074	82		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0303	74		
---	0.0190	70		
---	0.0112	61		
---	0.0061	53		
---	0.0059	44		
---	0.0042	38		
---	0.0031	31		
---	0.0015	22		

Coefficients

D ₈₅ = 0.0869 mm	D ₃₀ = 0.0028 mm
D ₆₀ = 0.0107 mm	D ₁₅ = N/A
D ₅₀ = 0.0074 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

Classification
 ASTM fat clay with sand (CH)
 AASHTO Clayey Soils (A-7-6 (38))

Sample/Test Description
 Sand/Gravel Particle Shape : ---
 Sand/Gravel Hardness : ---



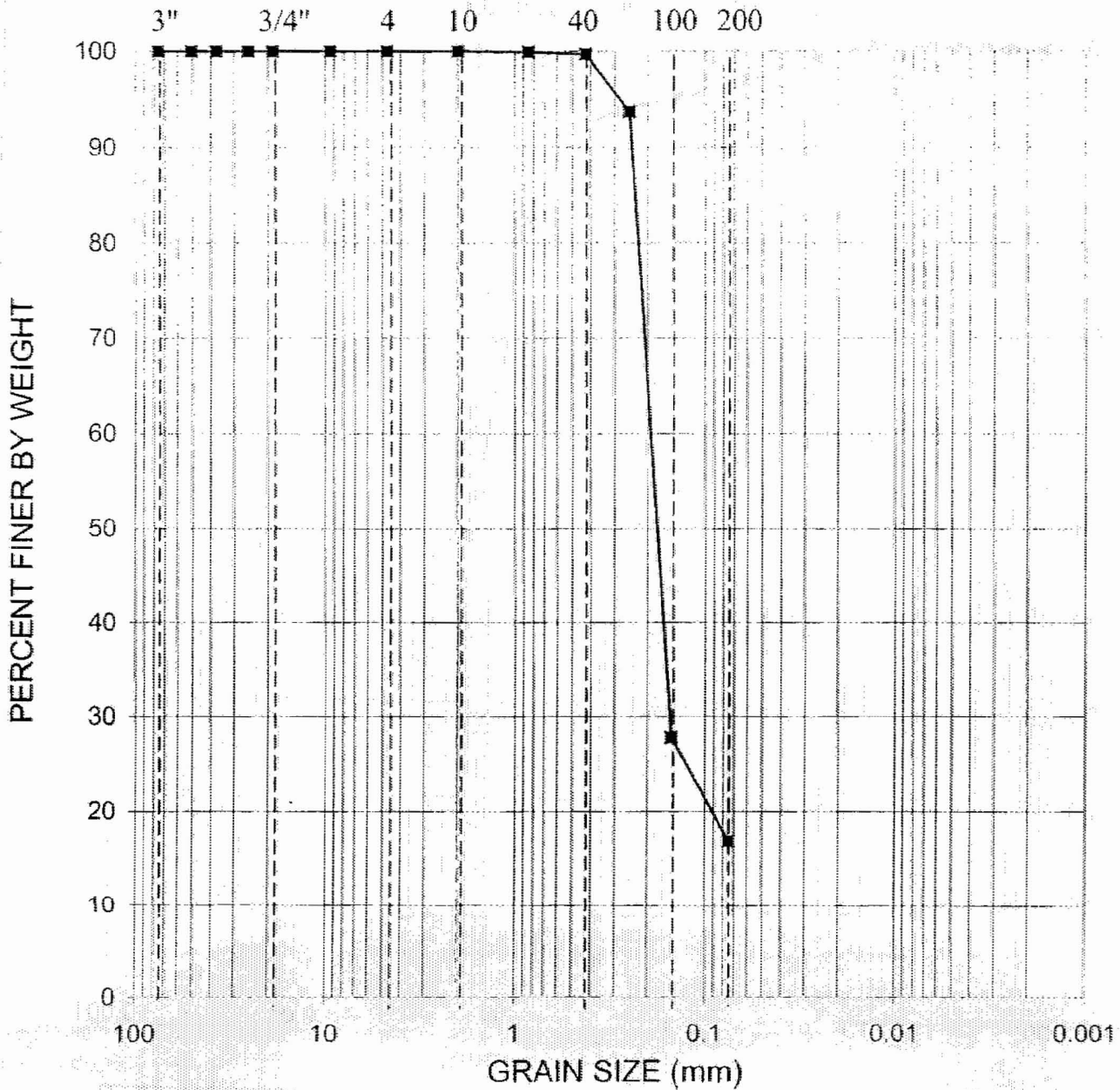
GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland	Contract No.: 06120048.00	Date: 8/21/2006
Boring No.	Depth (ft)	Sample Description	Class. LL PI
B-320	93.5	Silty SAND, trace shells, dark green	SM



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:	8/21/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	
B-320	103.5	Silty SAND, gray	SM			