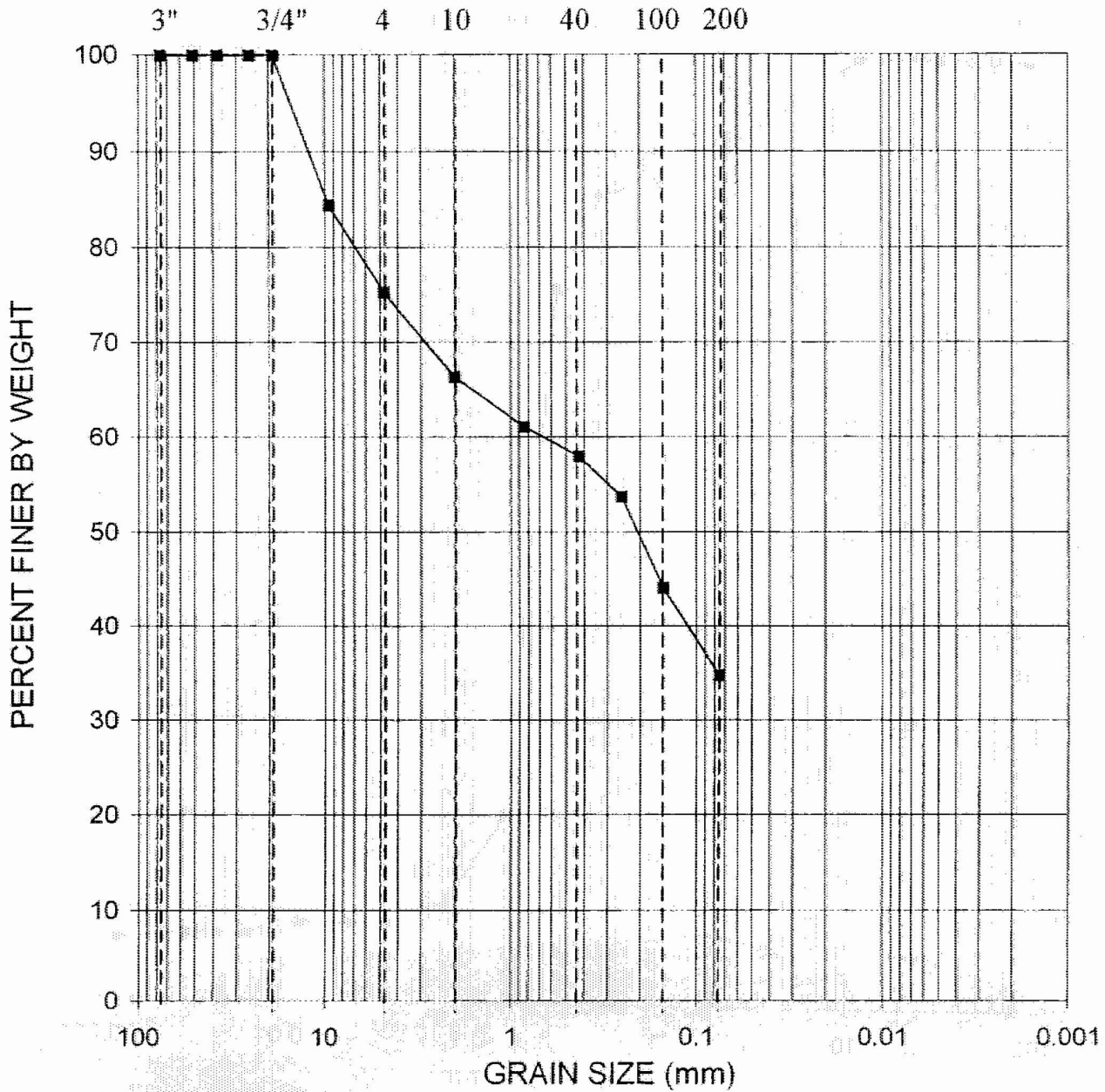



U.S. Standard Sieve Nos.

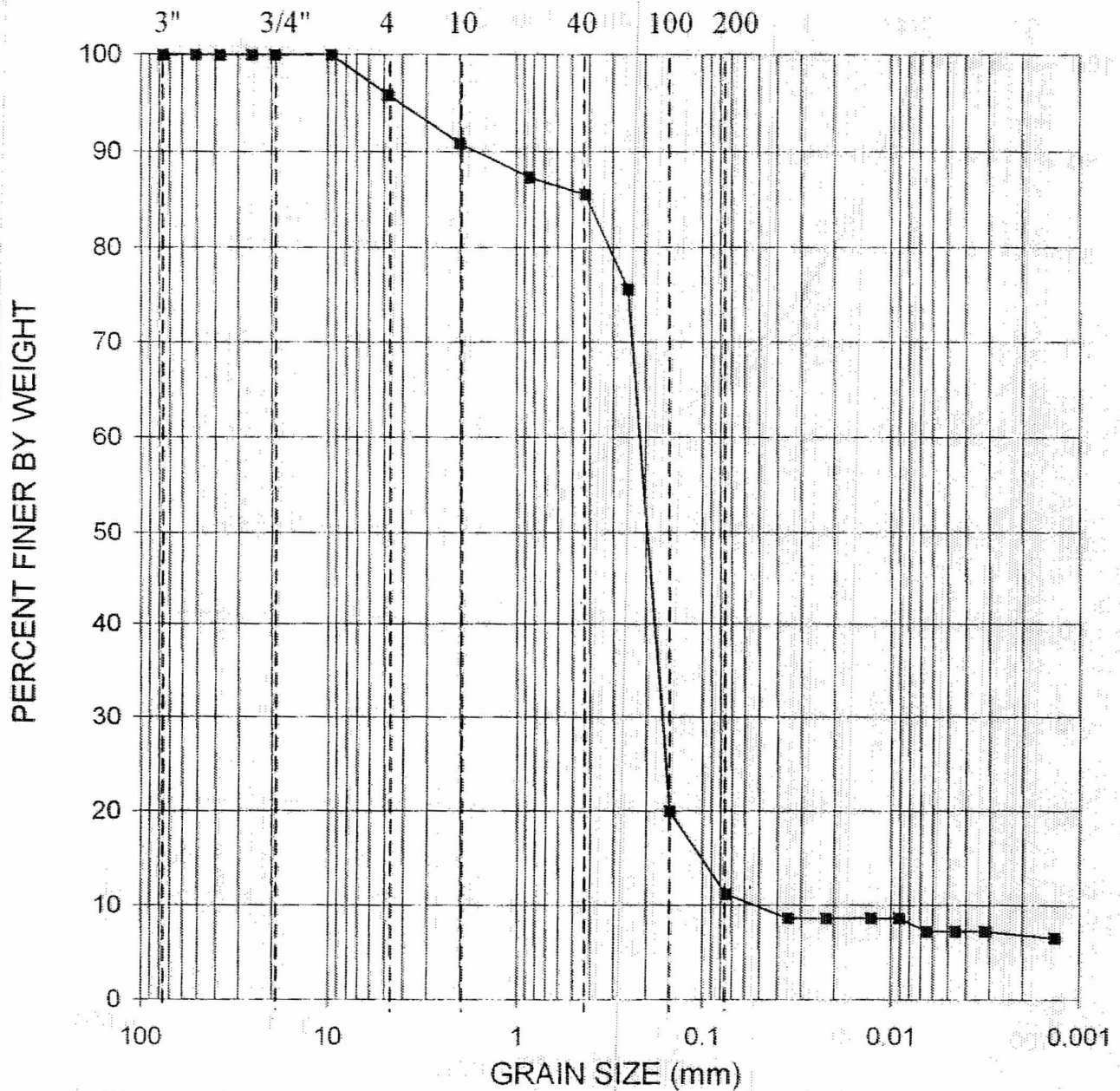


GRAVEL                      SAND                      SILT OR CLAY

GRADATION CURVE  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/15/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
B-427	93.5	Silty SAND, with shells, gray	SM				

U.S. Standard Sieve Nos.



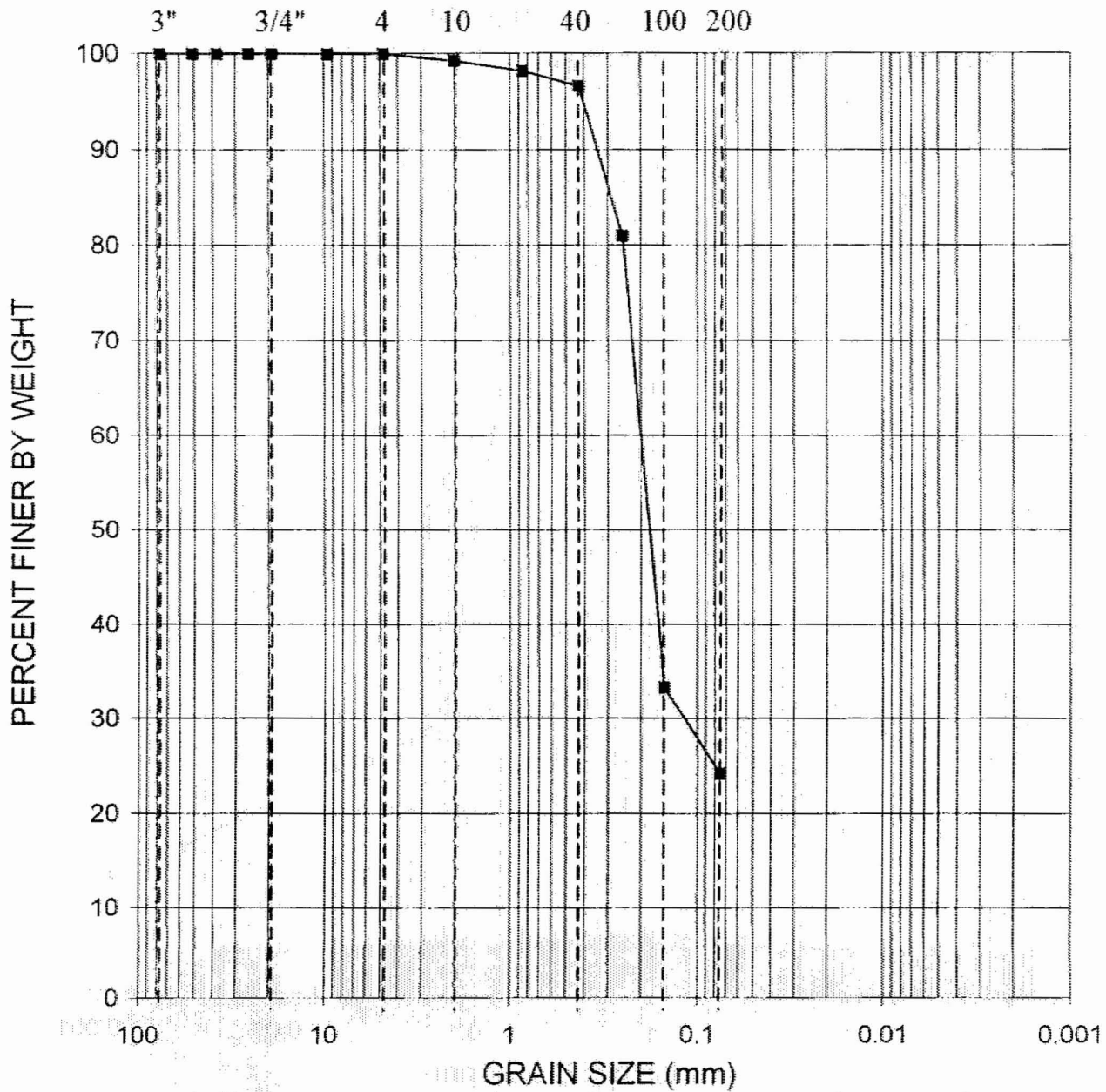
GRAVEL                      SAND                      SILT OR CLAY

GRADATION CURVE  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No. 06120048.00	Date: 9/22/2006	
Boring No.	Depth (ft)	Sample Description	Class	LL	PI
B-427	103.5	Poorly Graded SAND, with silt, trace shells, gray	SP-SM		




U.S. Standard Sieve Nos.



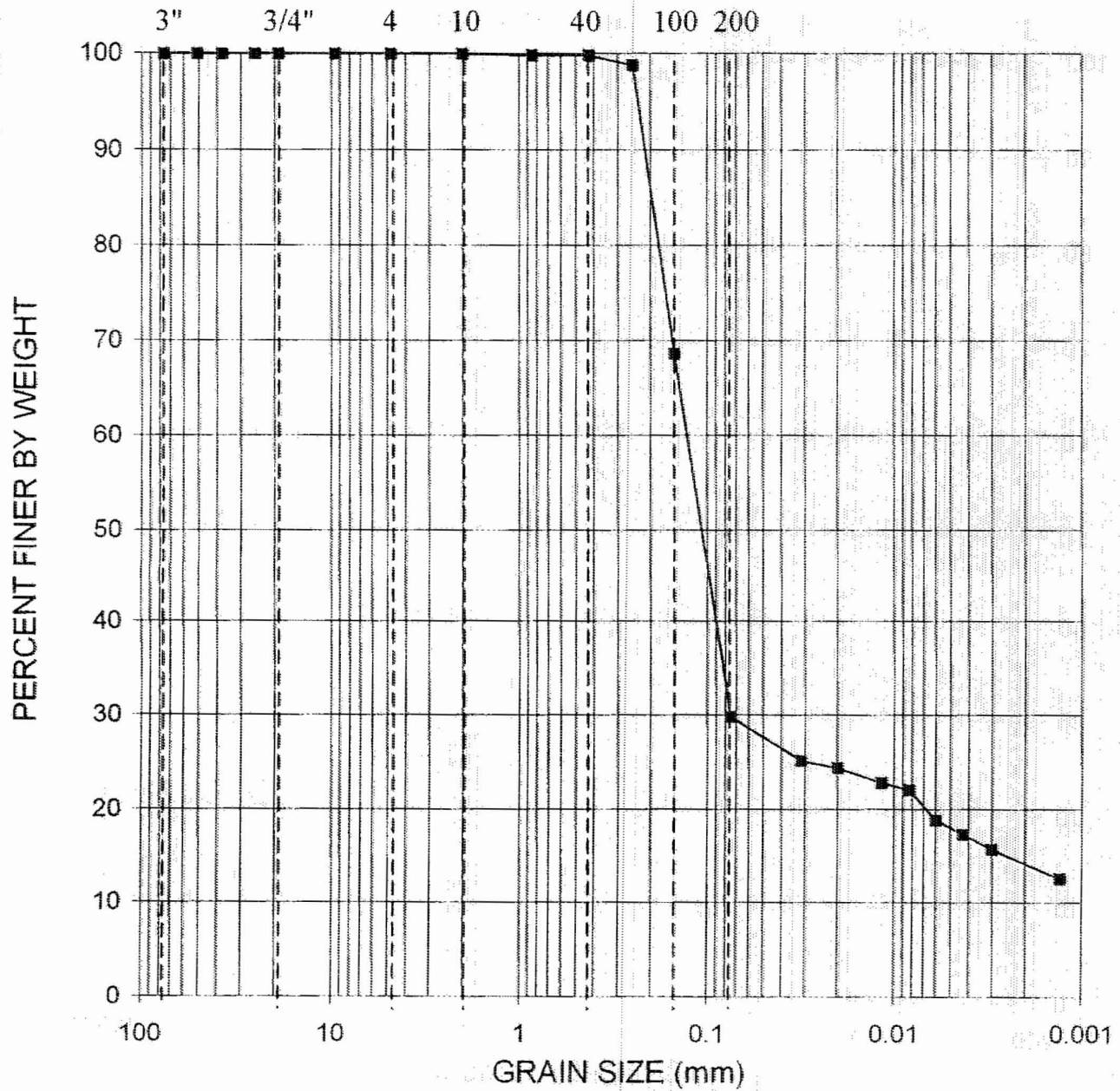
GRAVEL	SAND	SILT OR CLAY
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**GRADATION CURVE**  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/15/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
B-427	118.5	Silty SAND, contains shells, gray	SM				

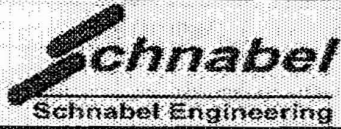


U.S. Standard Sieve Nos.



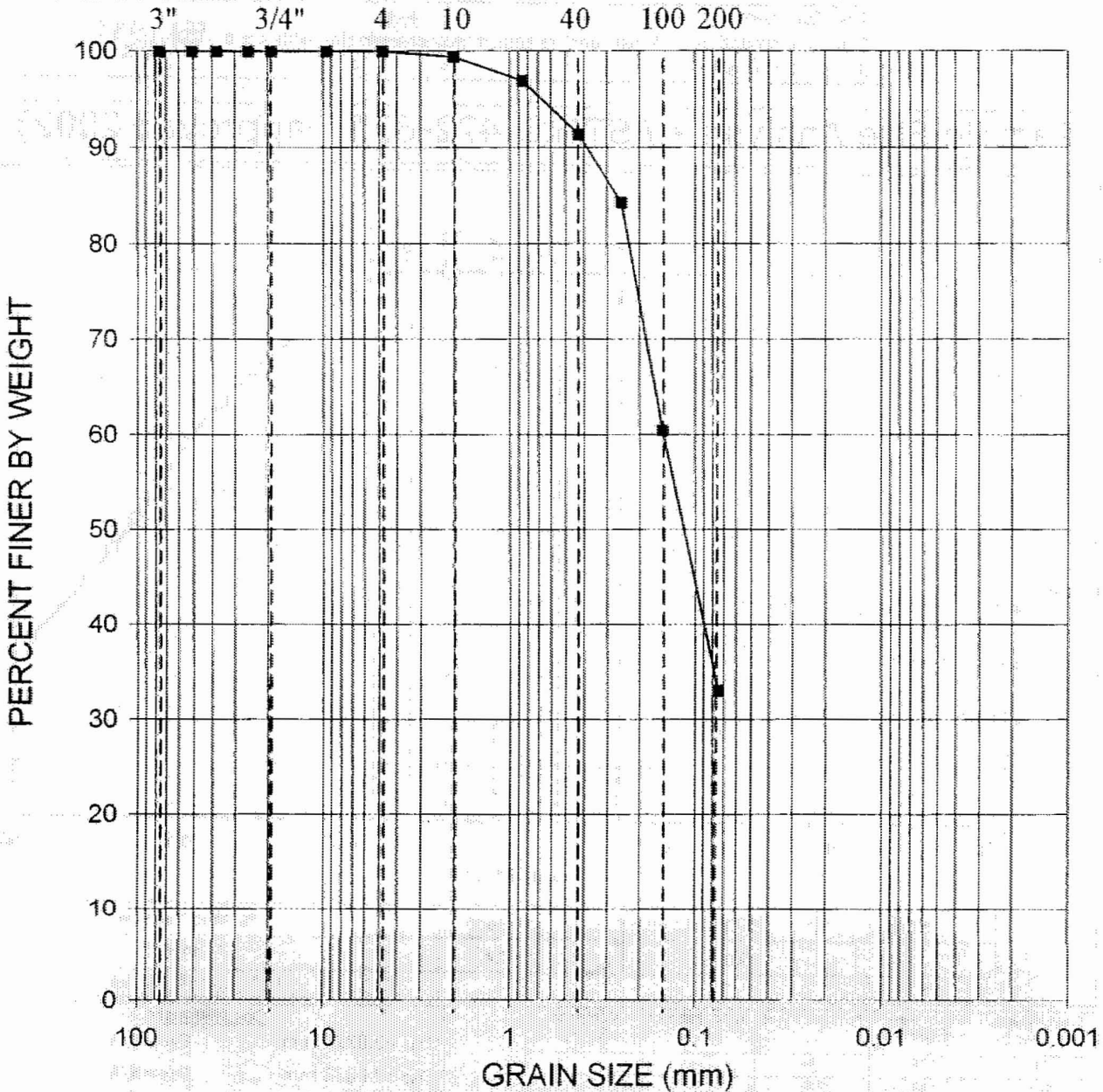
GRAVEL	SAND	SILT OR CLAY
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**GRADATION CURVE**  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/22/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-427	138.5	Silty SAND, contains shells, gray	SM				




U.S. Standard Sieve Nos.



GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE  
ASTM D422

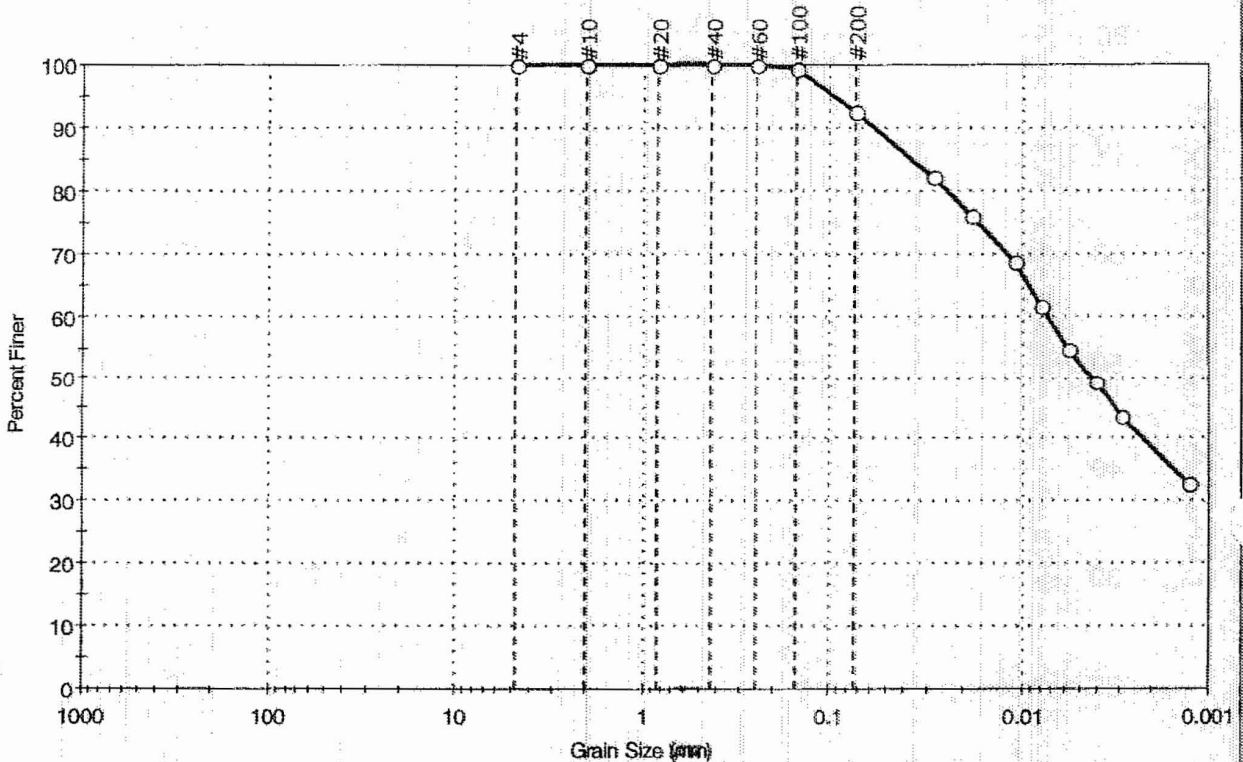
Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.:	06120048.00	Date:	9/15/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	
B-427	148.5	Silty SAND, contains shells, green	SM			

# GeoTesting express

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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-428	Sample Type: tube
Sample ID: ---	Test Date: 10/27/06	Tested By: sam
Depth: 60-62 ft	Test Id: 101390	Checked By: mcm
Test Comment: ---	Sample Description: Moist, dark greenish gray <sup>fat</sup> <del>organic</del> clay with sand	BB/4/10/07
Sample Comment: ---		

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	0.0	7.4	92.6

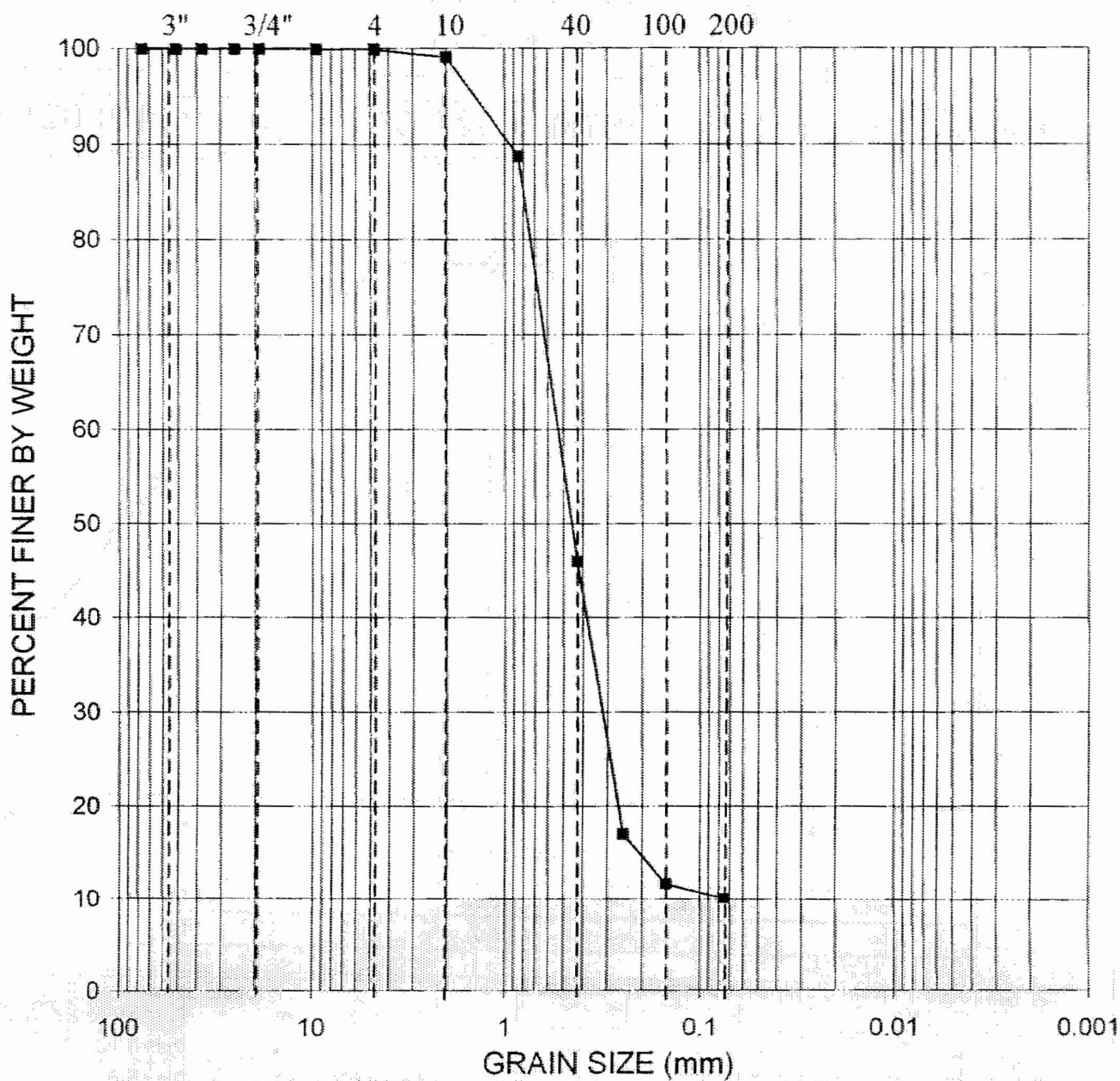
Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.425	100		
#60	0.25	100		
#100	0.15	99		
#200	0.075	93		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0292	82		
---	0.0188	76		
---	0.0108	69		
---	0.0075	62		
---	0.0057	55		
---	0.0041	49		
---	0.0029	44		
---	0.0013	33		

Coefficients	
D <sub>85</sub> = 0.0371 mm	D <sub>30</sub> = N/A
D <sub>60</sub> = 0.0072 mm	D <sub>15</sub> = N/A
D <sub>50</sub> = 0.0043 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

Classification	
ASTM	organic clay (OH) <sup>fat</sup> C BB/4/10/07
AASHTO	Clayey Soils (A-7-6 (48))

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

U.S. Standard Sieve Nos.



GRAVEL      SAND      SILT OR CLAY

GRADATION CURVE

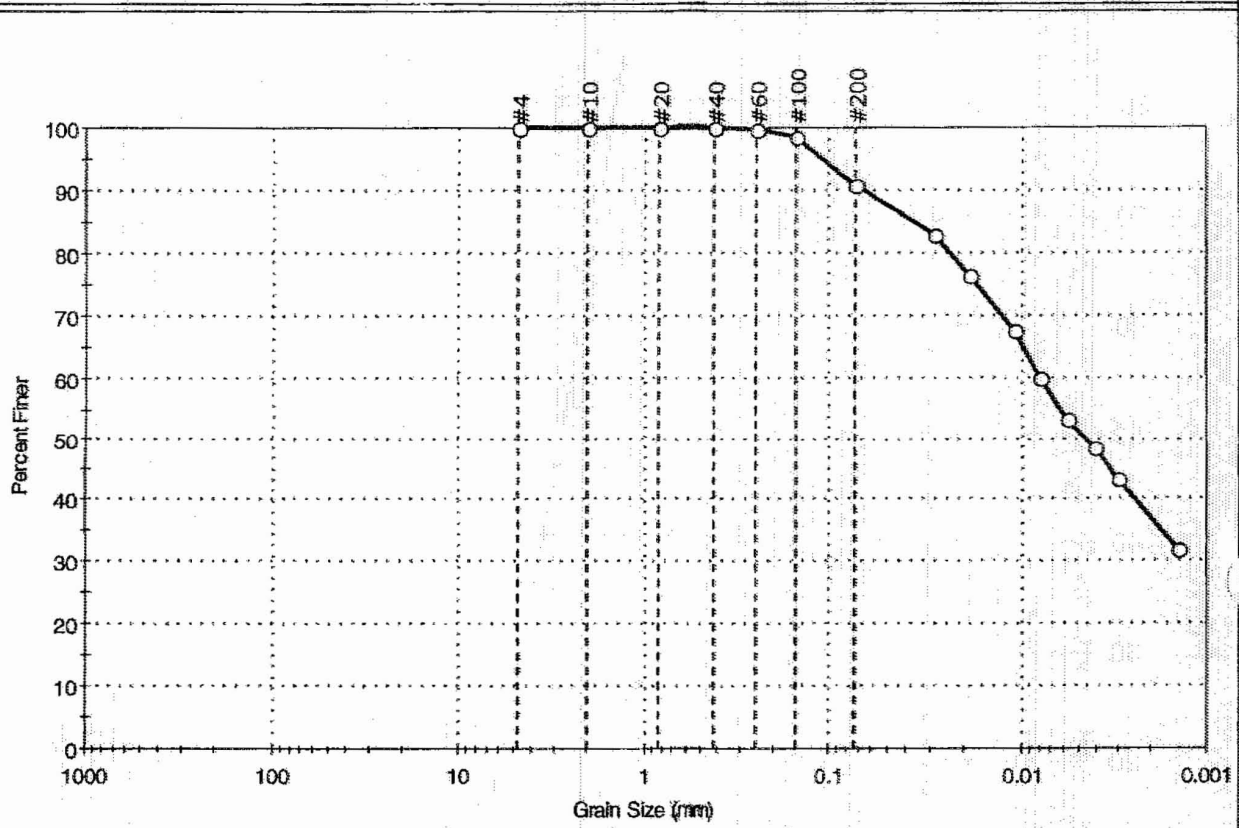
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.:	06120048.00	Date:	9/15/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	
B-433	10.5	Well Graded SAND, with silt, dark brown	SW-SM			



Client: Schnabel Engineering, Inc.	Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Location: Calvert County, MD	Project No: GTX-6880
Boring ID: B-433	Sample Type: tube	Tested By: sam	Checked By: mcm
Sample ID: S-11	Test Date: 09/28/06	Test ID: 98613	
Depth: 38.5-40.5 ft			
Test Comment: ---			
Sample Description: Moist, very dark gray clay			
Sample Comment: ---			

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	9.0	91.0

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	99		
#200	0.074	91		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0288	83		
---	0.0187	76		
---	0.0110	68		
---	0.0075	60		
---	0.0058	53		
---	0.0041	46		
---	0.0030	43		
---	0.0014	32		

**Coefficients**

D <sub>85</sub> = 0.0369 mm	D <sub>30</sub> = N/A
D <sub>60</sub> = 0.0079 mm	D <sub>15</sub> = N/A
D <sub>50</sub> = 0.0046 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

**Classification**

ASTM fat clay (CH)

AASHTO Clayey Soils (A-7-6 (50))

**Sample/Test Description**

Sand/Gravel Particle Shape : ---

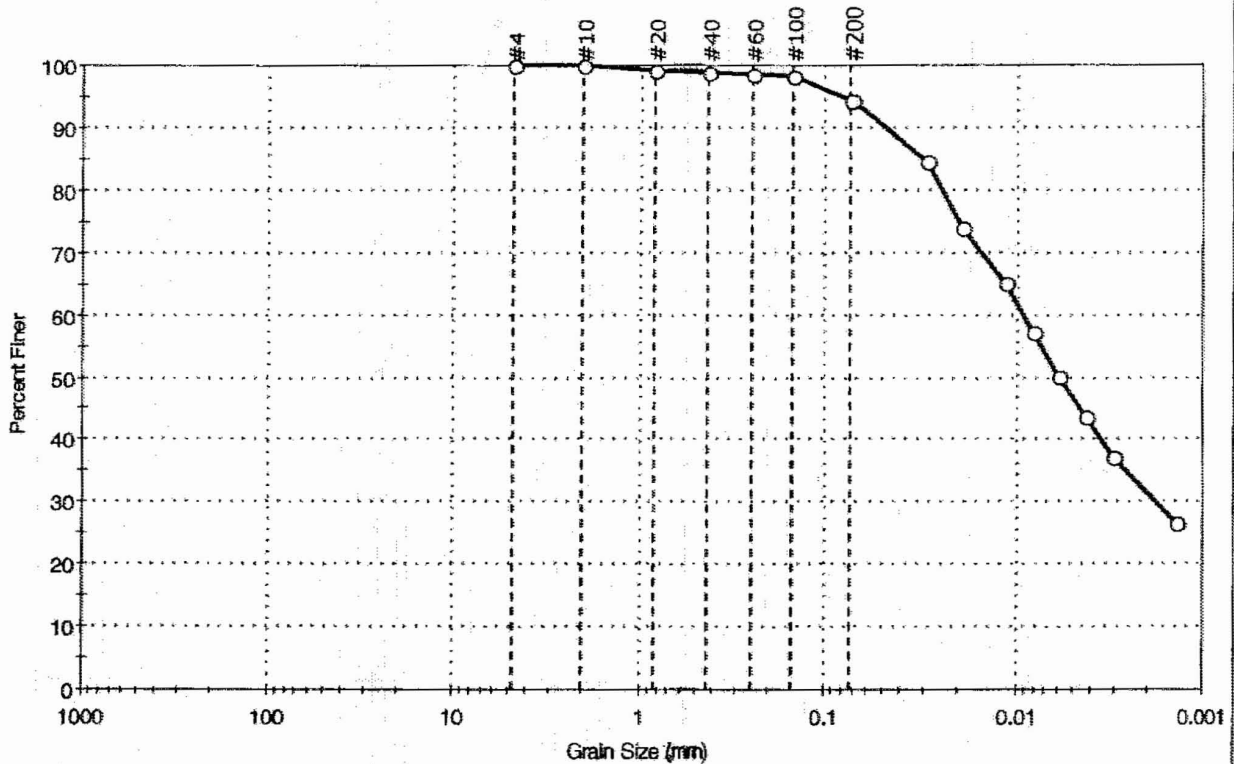
Sand/Gravel Hardness : ---

# GeoTesting express

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Client: Schnabel Engineering, Inc.	Project No: GTX-6880
Project: Subsurface Investigation Calvert Cliffs Nuclear PP	
Location: Calvert County, MD	
Boring ID: B-433	Sample Type: tube
Sample ID: S-13	Test Date: 10/11/06
Depth: 48.5-50.5 ft	Test Id: 98631
Test Comment: ---	Tested By: sam
Sample Description: Moist, black clay with sand	Checked By: mcm
Sample Comment: ---	

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	5.5	94.5

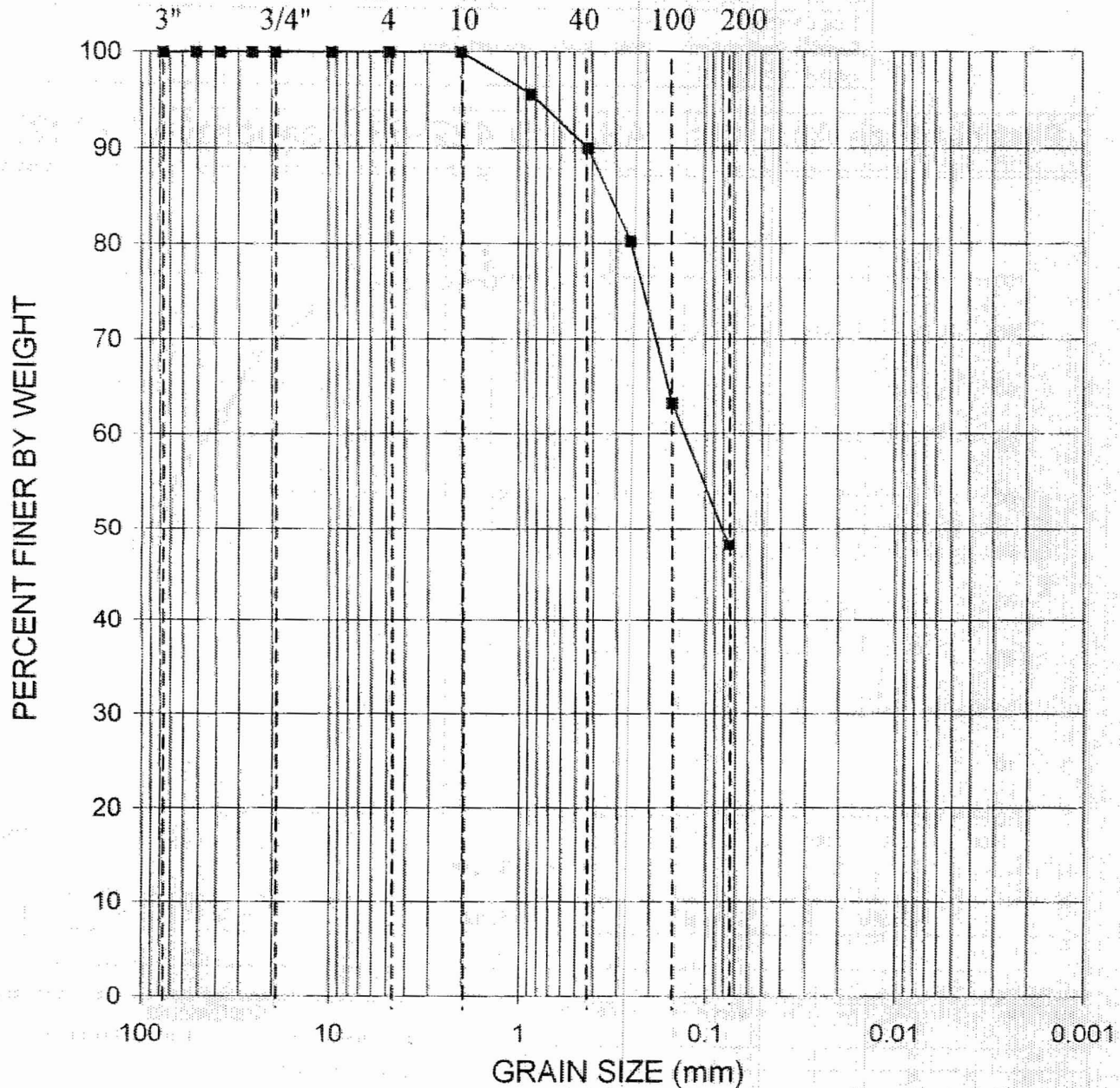
Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	99		
#40	0.42	99		
#60	0.25	99		
#100	0.15	96		
#200	0.074	95		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.025	85		
---	0.015	74		
---	0.010	65		
---	0.0075	57		
---	0.005	50		
---	0.003	44		
---	0.002	37		
---	0.001	27		

Coefficients	
D <sub>85</sub> = 0.0303 mm	D <sub>30</sub> = 0.0018 mm
D <sub>60</sub> = 0.0091 mm	D <sub>15</sub> = N/A
D <sub>50</sub> = 0.0059 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

Classification	
ASTM	fat clay (CH)
AASHTO	Clayey Soils (A-7-6 (49))

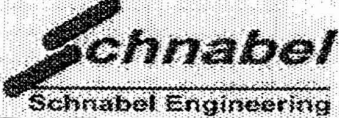
Sample/Test Description	
Sand/Gravel Particle Shape	: ---
Sand/Gravel Hardness	: ---

U.S. Standard Sieve Nos.



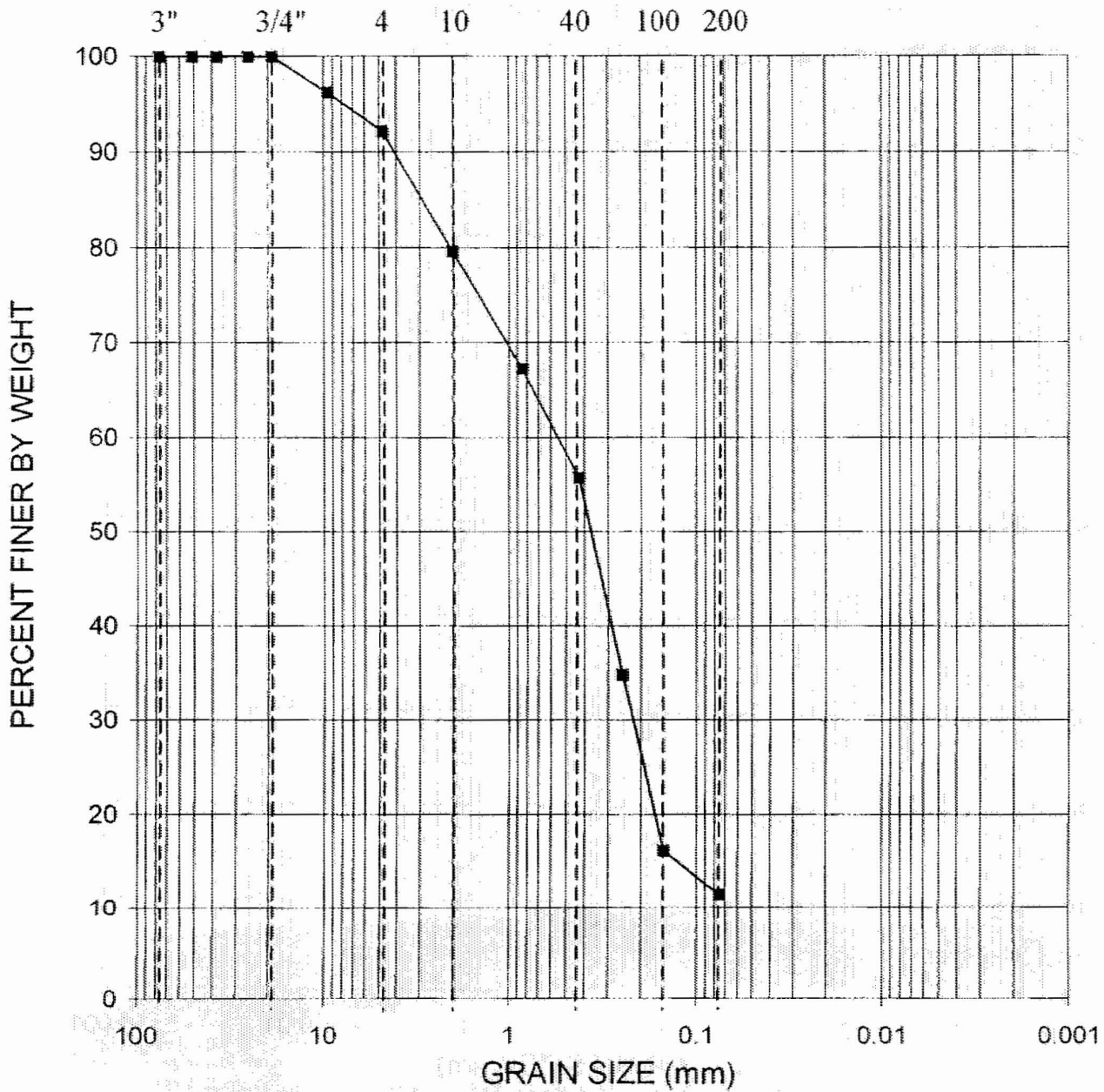
GRAVEL                      SAND                      SILT OR CLAY

GRADATION CURVE  
ASTM D422

Project	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.	06120048.00	Date	9/15/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI	
B-433	58.5	Silty SAND, dark brown	SM	44	9	




U.S. Standard Sieve Nos.

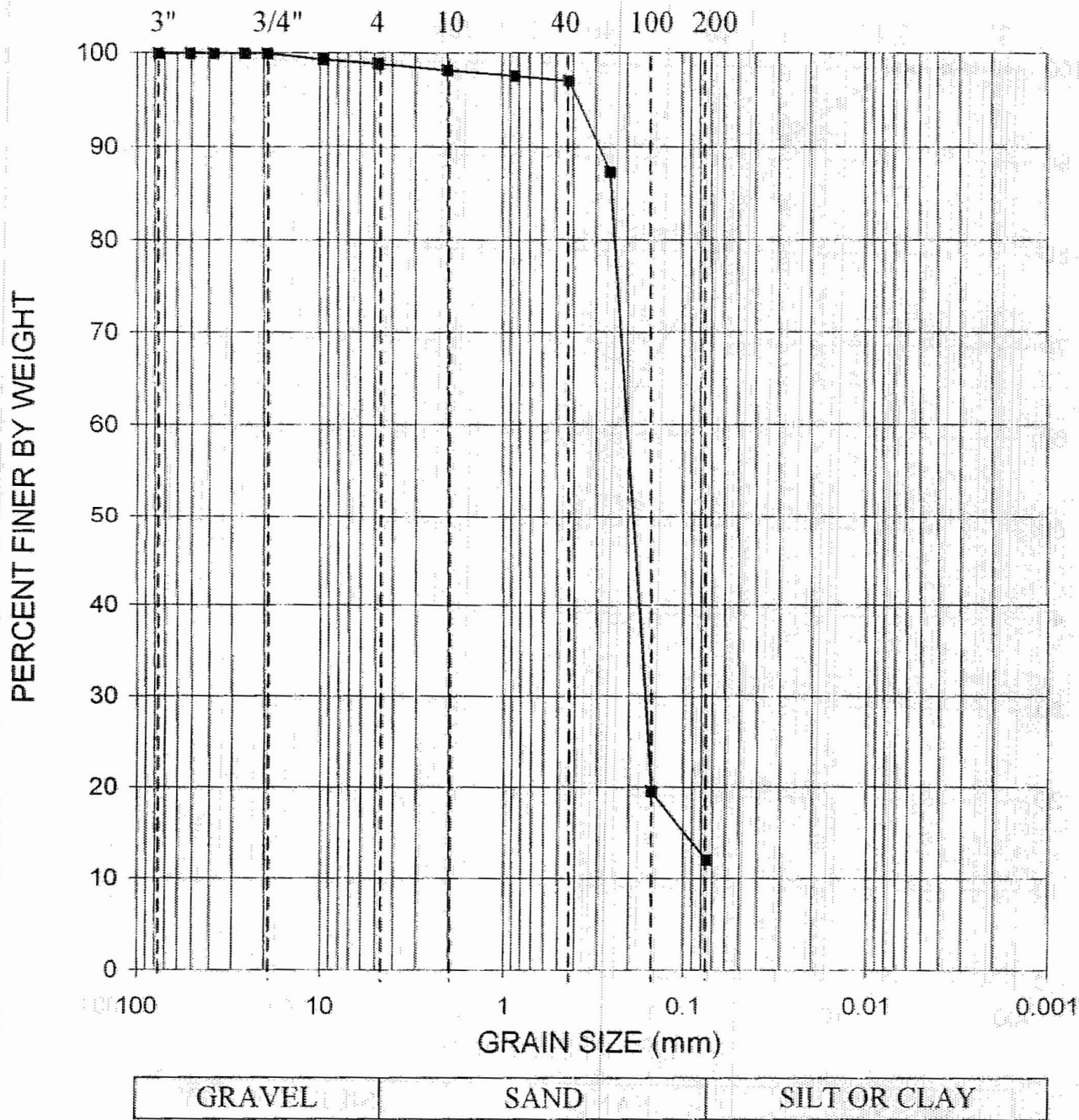


GRAVEL                      SAND                      SILT OR CLAY

GRADATION CURVE  
ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.: 06120048.00		Date: 9/15/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-433	73.5	Well Graded SAND, with silt, trace shells, gray	SW-SM				

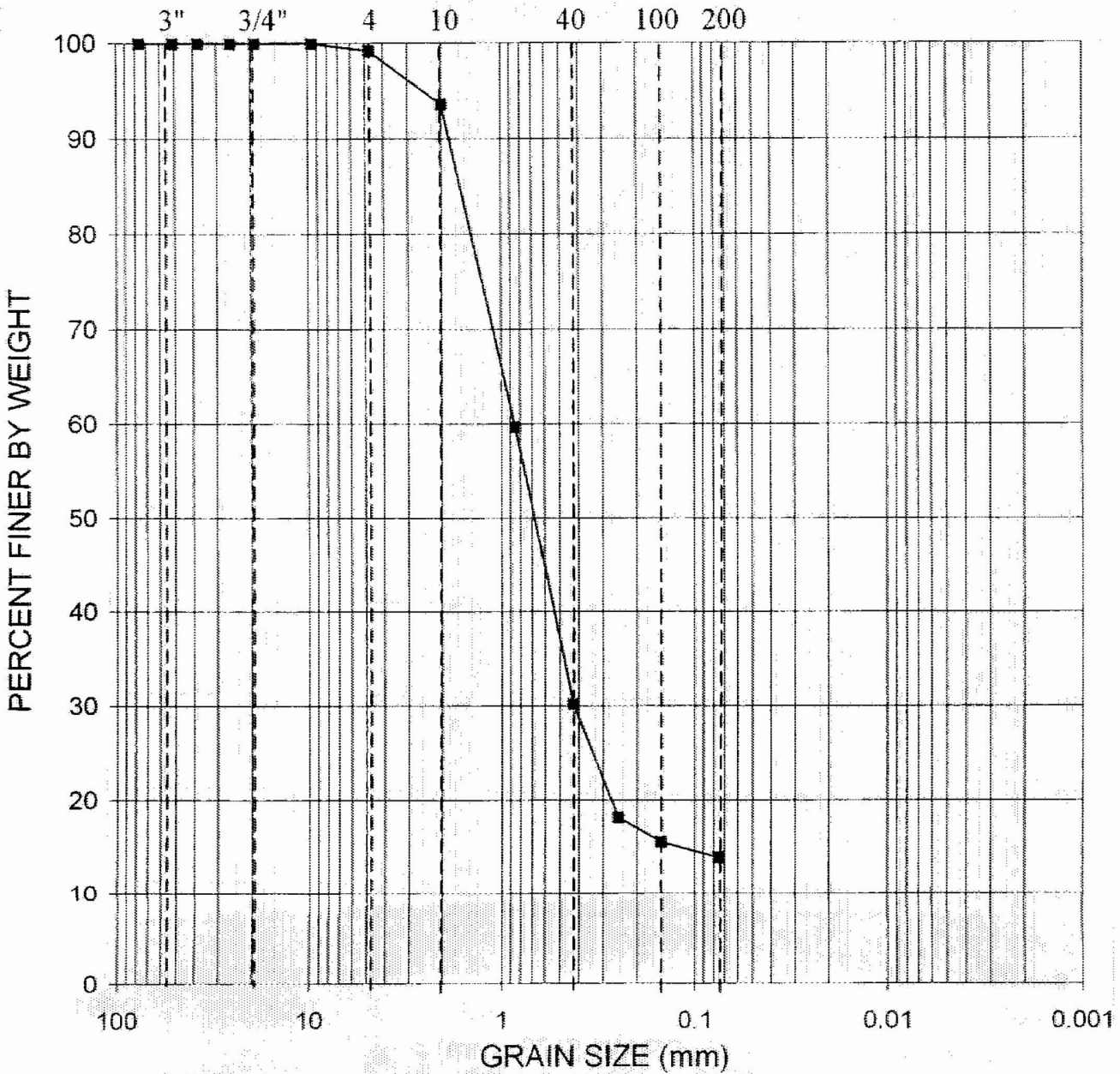
U.S. Standard Sieve Nos.



GRADATION CURVE  
ASTM D422


Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/15/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
B-433	93.5	Sandy SILT, trace shells, gray	ML				

U.S. Standard Sieve Nos.



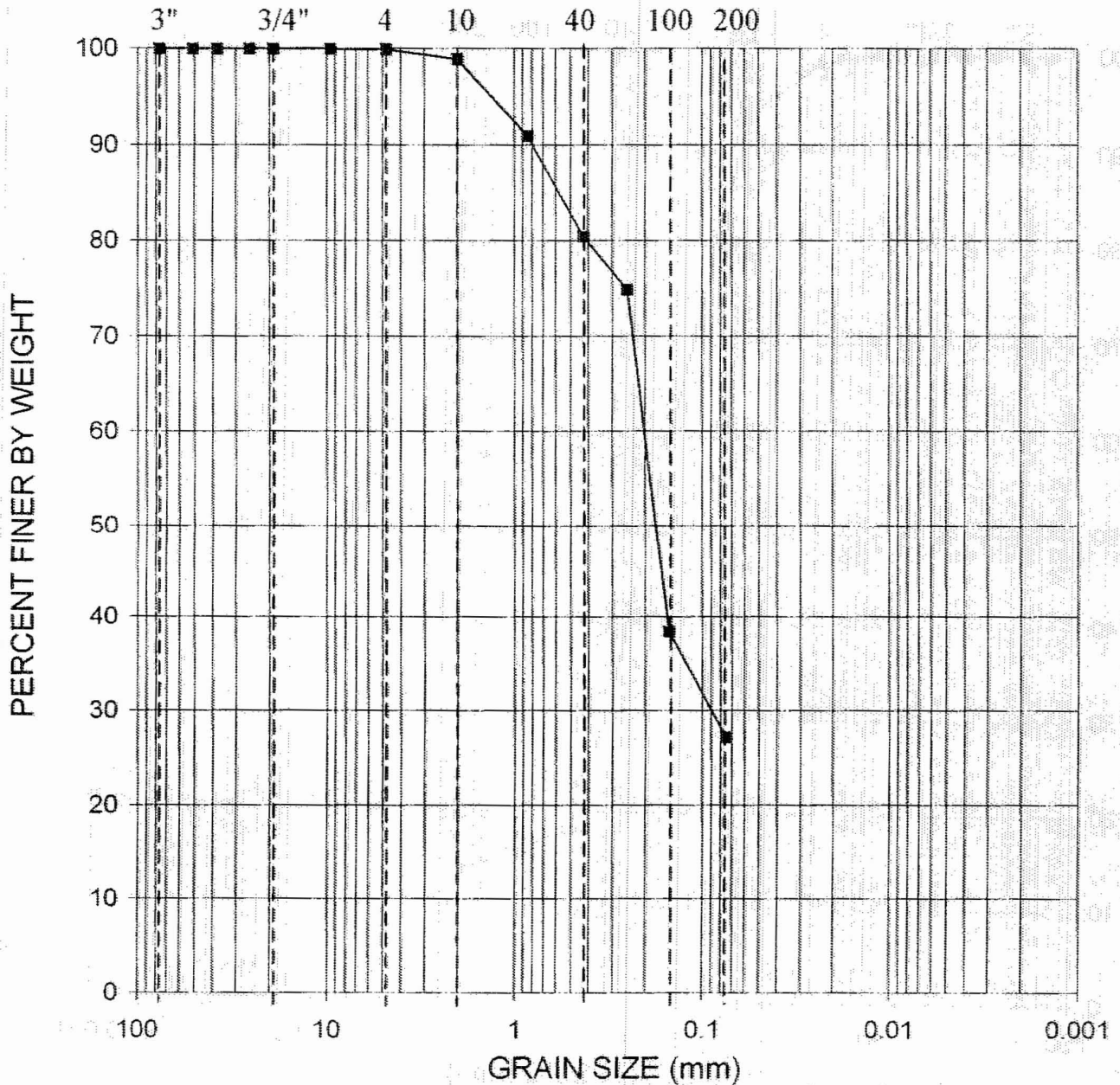
GRAVEL	SAND	SILT OR CLAY
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**GRADATION CURVE**  
ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No. 106120048.00		Date: 9/15/2006	
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
B-434	13.5	Silty SAND, trace gravel, brown	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: 9/18/2006	
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
B-434	28.5	Silty SAND, light brown	SM				