

## **Appendix R**

# **Grain Size Analytical Results**



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## Report of Analysis

**Westinghouse Electric Company**  
5801 Bluff Rd.  
Hopkins, SC 29061  
Attention: Diana Joyner

Project Name: RI Phase II-Grainsize

Lot Number: **WF23001**

Date Completed: 06/25/2021

Project Manager: **Blaire M. Gagne**

*Hannah K Lucas*

07/08/2021 4:05 PM

Approved and released by:  
Project Manager I: **Hannah K. Lucas**

The electronic signature above is the equivalent of a handwritten signature.  
This report shall not be reproduced, except in its entirety, without the written approval of Pace Analytical Services, LLC.

# PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

## **Case Narrative Westinghouse Electric Company Lot Number: WF23001**

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

Grain Size analysis was subcontracted to Schnabel Engineering. The report is included after the Pace report of analysis.

# PACE ANALYTICAL SERVICES, LLC

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**Sample Summary**  
**Westinghouse Electric Company**  
**Lot Number: WF23001**  
**Project Name: RI Phase II-Grainsize**  
**Project Number:**

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	L-28-0-2	Solid	06/21/2021	06/21/2021
002	L-28-2-5	Solid	06/21/2021	06/21/2021
003	L-31-0-3	Solid	06/21/2021	06/21/2021
004	L-31-3-5	Solid	06/21/2021	06/21/2021
005	L-35-0-3	Solid	06/21/2021	06/21/2021
006	L-35-3-5	Solid	06/21/2021	06/21/2021
007	L-42-0-2	Solid	06/21/2021	06/21/2021
008	L-45-0-1	Solid	06/21/2021	06/21/2021
009	L-45-1-2	Solid	06/21/2021	06/21/2021
010	L-45-2-5	Solid	06/21/2021	06/21/2021
011	L-58-0-2	Solid	06/21/2021	06/21/2021
012	L-59-0-2	Solid	06/21/2021	06/21/2021
013	W-101-2	Solid	06/21/2021	06/21/2021

(13 samples)

# PACE ANALYTICAL SERVICES, LLC

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**Detection Summary**  
**Westinghouse Electric Company**  
**Lot Number: WF23001**  
**Project Name: RI Phase II-Grainsize**  
**Project Number:**

Sample ID	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
(0 detections)								

## QC Summary

**Chain of Custody  
and  
Miscellaneous Documents**

# PACE ANALYTICAL SERVICES, LLC



**PACE ANALYTICAL SERVICES, LLC**  
 106 Vantage Point Drive • West Columbia, SC 29172  
 Telephone No. 803-791-9700 Fax No. 803-791-9111  
 www.pacelabs.com

**Number 120132**

Client: <u>Westinghouse</u> Address: <u>5801 Bluff Rd</u> City: <u>Hopkins</u> State: <u>SC</u> Zip Code: <u>29061</u> Project Name: <u>RS Phase II</u>	Report to Contact: <u>Diana Joyner</u> Sampler's Signature: <u>Charles K Rubelt</u> Printed Name: <u>Charles K Rubelt</u>	Telephone No. / E-mail: <u>1 of 2</u> Analysis (Attach list if more space is needed)	Quote No. _____ Page: <u>1 of 2</u> BMS: <u>WF23001</u> Remarks / Cooler L.C. _____
Project No. _____ H.C. No. _____ Sample ID / Description (Containers for each sample may be continued on one line.) <u>L-28-0-2</u> <u>L-28-2-5</u> <u>L-31-0-3</u> <u>L-31-3-5</u> <u>L-35-0-3</u> <u>L-35-3-5</u> <u>L-42-0-2</u> <u>L-45-0-1</u> <u>L-45-1-2</u> <u>L-45-2-5</u>	Matrix: _____ No. of Containers by Preservative Type: None _____ Lead _____ Cad _____ Nickel _____ Silver _____ Zinc _____ Arsenic _____ Barium _____ Bismuth _____ Boron _____ Cadmium _____ Calcium _____ Cobalt _____ Chromium _____ Copper _____ Fluorine _____ Gallium _____ Germanium _____ Iridium _____ Iron _____ Lead _____ Lithium _____ Manganese _____ Mercury _____ Molybdenum _____ Niobium _____ Potassium _____ Selenium _____ Strontium _____ Tellurium _____ Vanadium _____ Vanadium _____ Zirconium _____	Possible Hazard Identification: <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Biohazard 1. Received by _____ 2. Received by _____ 3. Received by _____ 4. Laboratory received by <u>Charles K Rubelt</u> LAB USE ONLY Received on (or Circled) Yes (No) <u>(No)</u> Ice Pack <u>(No)</u> Receipt Temp. <u>21.6</u> °C	GC Requirements (Specify) Date _____ Time _____ Date _____ Time _____ Date _____ Time _____ Date <u>6-21-14</u> Time <u>1714</u> Date _____ Time _____ Date _____ Time _____ Date <u>6-21-14</u> Time <u>1714</u> Temp Blank <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Turn Around Time Required (Prior lab approval required for expedited TAT.) <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify): _____ 1. Retrievished by <u>Charles K Rubelt</u> 2. Retrievished by _____ 3. Retrievished by _____ 4. Retrievished by _____ Note: All samples are retained for four weeks from receipt unless other arrangements are made.			

Document Number: ME020025-01

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client; Copy





**PACE ANALYTICAL SERVICES, LLC**  
 106 Vantage Point Drive • West Columbia, SC 29172  
 Telephone No. 803-791-9700 Fax No. 803-791-9111  
 www.pacelabs.com

**Number**

**120133**

# PACE ANALYTICAL SERVICES, LLC

Client <i>Westinghouse</i>		Report to Contact <i>Diana Toyer</i>	Telephone No. (E-mail) <i>toymerdp@westinghouse.com</i>	Quote No.																																																																																																																																				
Address <i>5001 Bluff Rd</i>		Sampler's Signature <i>Charles K. Suddeth</i>	Analysis (Attach list if more space is needed)	Page <i>Z</i> of <i>Z</i>																																																																																																																																				
City <i>Hopkins</i>		Printed Name <i>Charles K. Suddeth</i>	<p><b>WF23001</b></p> <p>EMC</p> <p>Remarks / Lab No.</p>																																																																																																																																					
Project Name <i>RI Phase II</i>		Printed Memo																																																																																																																																						
State <i>SC</i>																																																																																																																																								
Zip Code <i>29061</i>																																																																																																																																								
Project No.	P.O. No.	Matrix	No. of Containers by Preservative Type	<table border="1"> <tr> <th rowspan="2">Sample ID / Description (Containers for each sample may be combined on one line.)</th> <th rowspan="2">Collection Date(s)</th> <th rowspan="2">Collection Time (MM/SS)</th> <th colspan="3">Matrix</th> <th colspan="3">No. of Containers by Preservative Type</th> <th rowspan="2">Possible Hazard Identification  <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown</th> <th colspan="2">QC Requirements (Specify)</th> </tr> <tr> <th>GC</th> <th>LC</th> <th>IC</th> <th>GC/MS</th> <th>GC/MS</th> <th>GC/MS</th> <th>Date</th> <th>Time</th> </tr> <tr> <td><i>L-58-0-2</i></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>L-59-0-2</i></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>W-101-0-2</i></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (MM/SS)	Matrix			No. of Containers by Preservative Type			Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown	QC Requirements (Specify)		GC	LC	IC	GC/MS	GC/MS	GC/MS	Date	Time	<i>L-58-0-2</i>			<input checked="" type="checkbox"/>											<i>L-59-0-2</i>			<input checked="" type="checkbox"/>											<i>W-101-0-2</i>			<input checked="" type="checkbox"/>																																																																																
Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (MM/SS)	Matrix					No. of Containers by Preservative Type			Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown	QC Requirements (Specify)																																																																																																																												
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Sample Disposal <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposed by Lab	Sample ID / Description <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)	Turn Around Time Required (Prior lab approval required for expedited kit.)	1. Relinquished by <i>Charles K. Suddeth</i>	Date <i>6/21/21</i> Time <i>1714</i>																																																																																																																																				
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<p>Note: All samples are retained for four weeks from receipt unless other arrangements are made.</p> <p>4. Laboratory received by <i>Keayhen Williams</i>          LAB USE ONLY          Received on site (Circle) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> See Pack          Receipt Temp <i>21.4</i> °C          Date <i>6.21.21</i> Time <i>1714</i>          Temp Blank <input checked="" type="checkbox"/></p>																																																																																																																																								

# PACE ANALYTICAL SERVICES, LLC



**Samples Receipt Checklist (SRC) (ME0018C-15)**

Issuing Authority: Pace ENV - WCOL

Revised: 9/29/2020

Page 1 of 2

## Sample Receipt Checklist (SRC)

Client: Westinghouse

Cooler Inspected by/date: KSC / 06/23/2021

Lot #: WF23001

Means of receipt: <input type="checkbox"/> Pace <input checked="" type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other:	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1. Were custody seals present on the cooler?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA	
Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: NA	
21.6 / 21.6 °C NA / NA °C NA / NA °C NA / NA °C	
Method: <input type="checkbox"/> Temperature Blank <input checked="" type="checkbox"/> Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C	
Method of coolant: <input type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input checked="" type="checkbox"/> None	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone (email) / face-to-face (circle one).
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	4. Is the commercial courier's packing slip attached to this form?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Were proper custody procedures (relinquished/received) followed?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Were sample IDs listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Were sample IDs listed on all sample containers?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	8. Was collection date & time listed on the COC?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	9. Was collection date & time listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Did all container label information (ID, date, time) agree with the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. Were tests to be performed listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. Was adequate sample volume available?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	14. Were all samples received within 1/2 the holding time or 48 hours, whichever comes first?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	16. For VOA and RSK-175 samples, were bubbles present >"pca-size" (1/4" or 6mm in diameter) in any of the VOA vials?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	19. Were all applicable NH <sub>3</sub> /TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	21. Was the quote number listed on the container label? If yes, Quote #
<b>Sample Preservation</b> (Must be completed for any sample(s) incorrectly preserved or with headspace.)	
Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA	
Time of preservation NA. If more than one preservative is needed, please note in the comments below.	
Sample(s) NA were received with bubbles >6 mm in diameter.	
Samples(s) NA were received with TRC > 0.5 mg/l. (If #19 is no) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ) with Shealy ID: NA	
SR barcode labels applied by: KSC Date: 06/23/2021	

Comments:

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**TRANSMITTAL**

<b>TO:</b>	Blaire Gagne	<b>DATE:</b>	7/8/21
<b>COMPANY:</b>	Pace Analytical	<b>SUBJECT:</b>	Lab Results
<b>ADDRESS:</b>	106 Vantage Point Drive West Columbia, South Carolina 29169	<b>PROJECT NAME/NO.:</b>	Pace Analytical – Westinghouse Schnabel Reference Number: 08190058.00.497-509 Lot No. WF23001
<b>FROM:</b>	Stephen Hahn	<b>CC:</b>	

COPIES	DATE	NO.	DESCRIPTION
1	--	13	Gradation

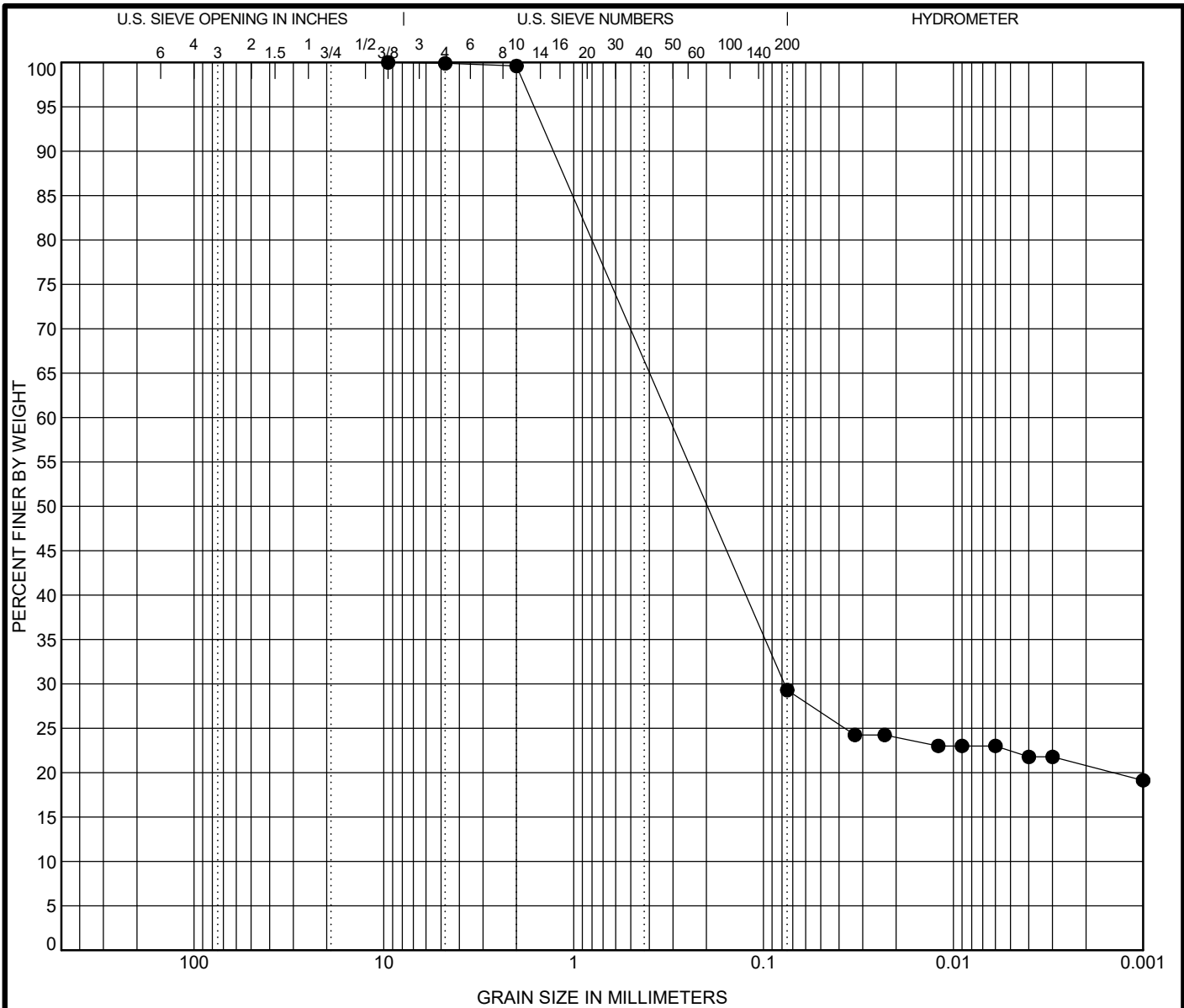
AS REQUESTED       FOR APPROVAL       PLEASE REPLY       FOR YOUR USE

Attached, please find our lab results for sample(s) for Lot no. WF23001.

Please advise if you have any questions.

**SIGNED:**   
Stephen Hahn

SENT VIA:     First Class Mail     Overnight Service     Email     Other



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description					LL	PL	PI	Test Method
L-28-0-2 0.0 ft	CLAYEY SAND (SC), yellowish brown					--	--	--	Atterberg ASTM D4318
Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay	
<b>ASTM D7928</b>	<b>9.5</b>	<b>0.315</b>	<b>0.077</b>		<b>0.1</b>	<b>70.6</b>	<b>8.5</b>	<b>20.8</b>	

**Percent Finer**

Sieve Size	200	10	4	3/8"
% Finer	29.3	99.6	99.9	100.0

Tested By	Tested Date	Reviewed by	Calc by
EC	7/1/21	SRH	EC

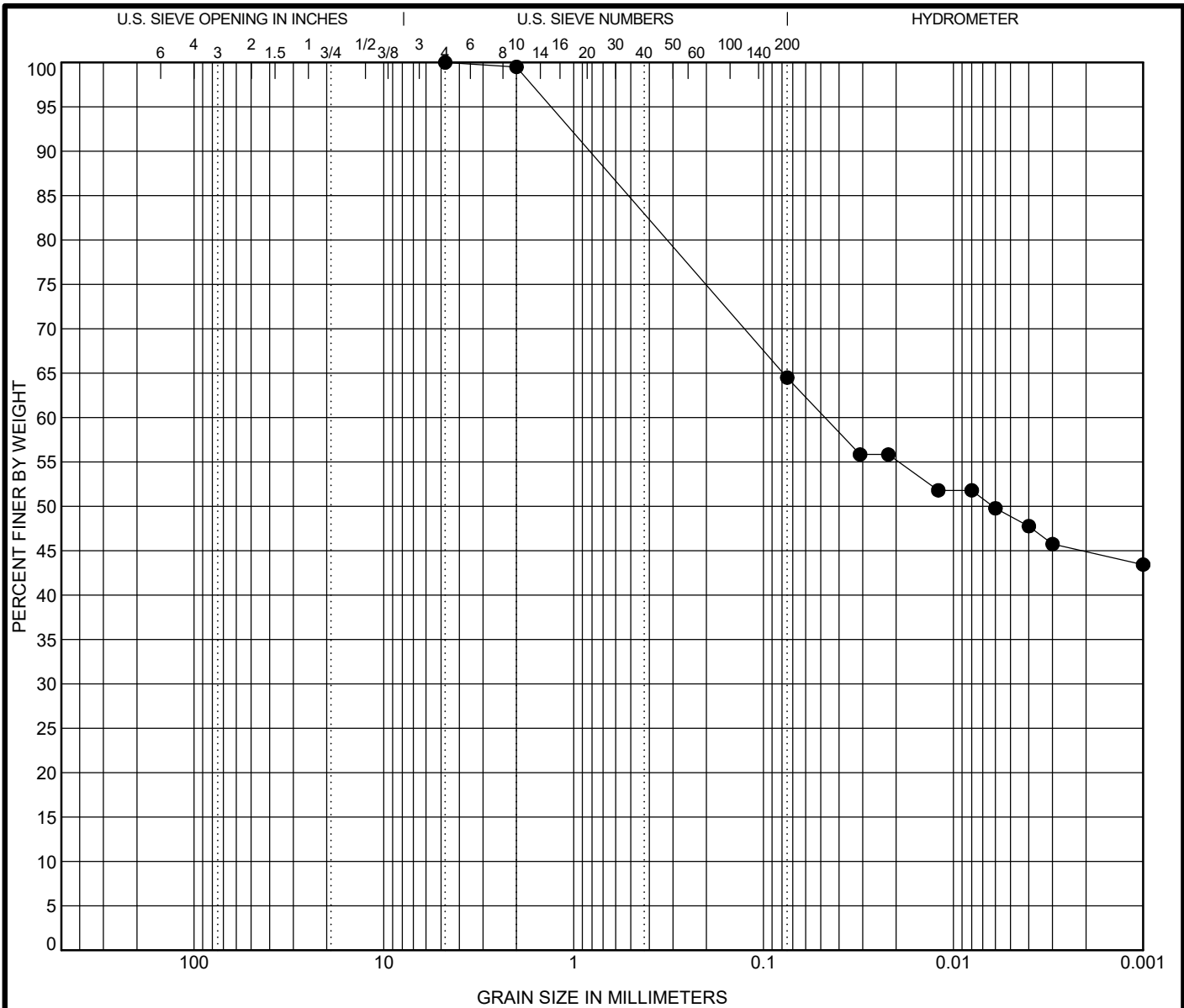


**GRADATION CURVE**

**Project:** Pace Analytical  
WF23001  
Cayce, South Carolina

**Contract:** 08190058.00.497-509

SIEVE 1/SHEET HYDROMETERS-2020-2021.GPJ TEST TEMPLATE.GDT 7/8/21



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description					LL	PL	PI	Test Method
L-28-2-5 2.0 ft	SANDY LEAN CLAY (CL), brown					--	--	--	Atterberg ASTM D4318
Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay	
<b>ASTM D7928</b>	<b>4.75</b>	<b>0.047</b>			<b>0.0</b>	<b>35.5</b>	<b>19.6</b>	<b>44.9</b>	

**Percent Finer**

Sieve Size	200	10	4
% Finer	64.5	99.5	100.0

Tested By	Tested Date	Reviewed by	Calc by
EC	7/1/21	SRH	EC

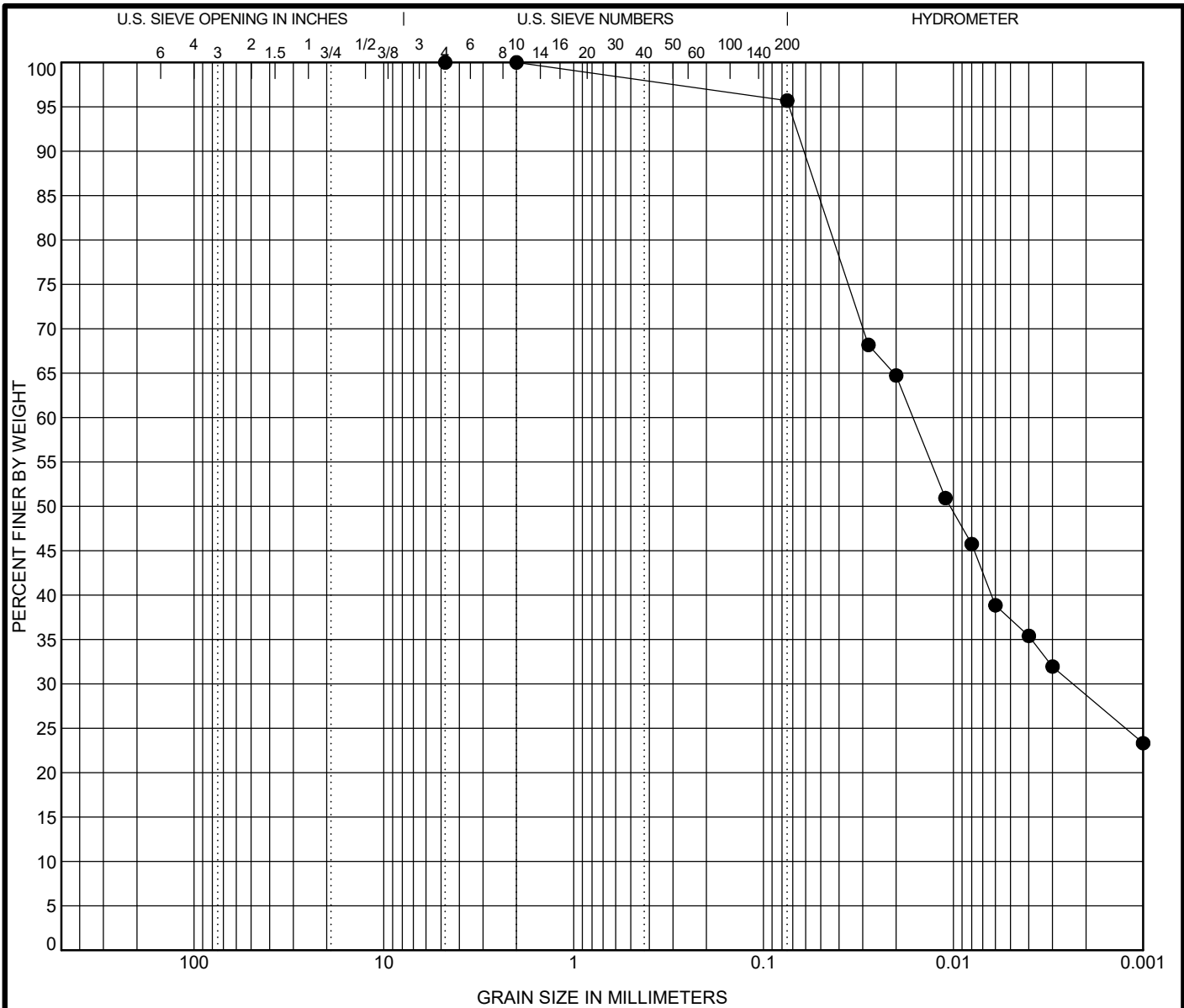


**GRADATION CURVE**

**Project:** Pace Analytical  
WF23001  
Cayce, South Carolina

**Contract:** 08190058.00.497-509

SIEVE 1/SHEET HYDROMETERS-2020-2021.GPJ TEST TEMPLATE.GDT 7/8/21



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description					LL	PL	PI	Test Method	
L-31-0-3	0.0 ft	SILT (ML), brown					--	--	--	Atterberg ASTM D4318
Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
<b>ASTM D7928</b>	<b>2</b>	<b>0.016</b>	<b>0.002</b>		<b>0.0</b>	<b>4.3</b>	<b>66.9</b>	<b>28.8</b>		

**Percent Finer**

Sieve Size	200	10	4
% Finer	95.7	100.0	100.0

Tested By	Tested Date	Reviewed by	Calc by
EC	7/1/21	SRH	EC



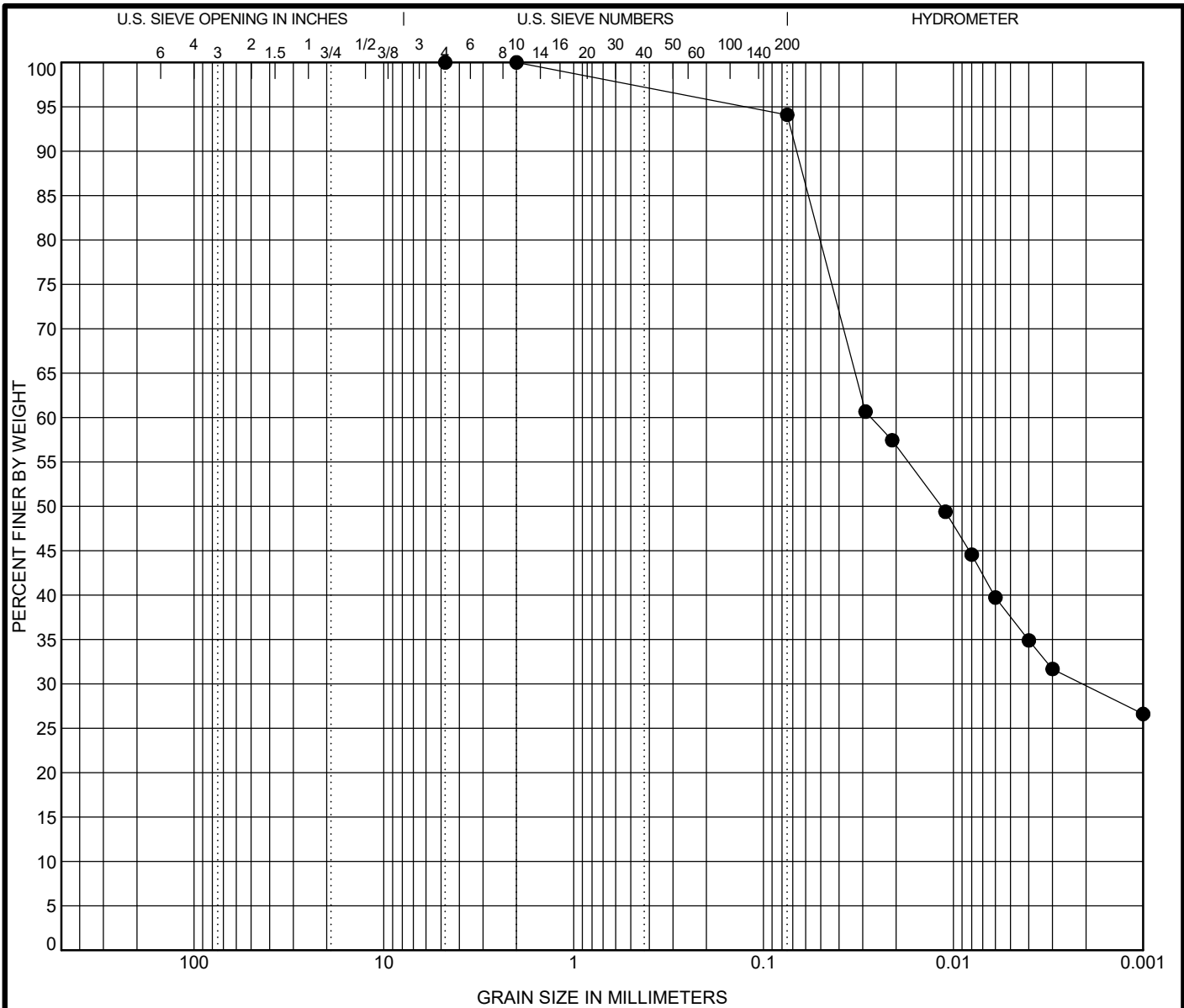
**GRADATION CURVE**

**Project:** Pace Analytical  
WF23001  
Cayce, South Carolina

**Contract:** 08190058.00.497-509

SIEVE 1/SHEET HYDROMETERS-2020-2021.GPJ TEST TEMPLATE.GDT 7/8/21





COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description					LL	PL	PI	Test Method
L-31-3-5 3.0 ft	SILT (ML), brown					--	--	--	Atterberg ASTM D4318
Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay	
<b>ASTM D7928</b>	<b>2</b>	<b>0.027</b>	<b>0.002</b>		<b>0.0</b>	<b>5.9</b>	<b>64.3</b>	<b>29.8</b>	

**Percent Finer**

Sieve Size	200	10	4
% Finer	94.1	100.0	100.0

Tested By	Tested Date	Reviewed by	Calc by
EC	7/1/21	SRH	EC

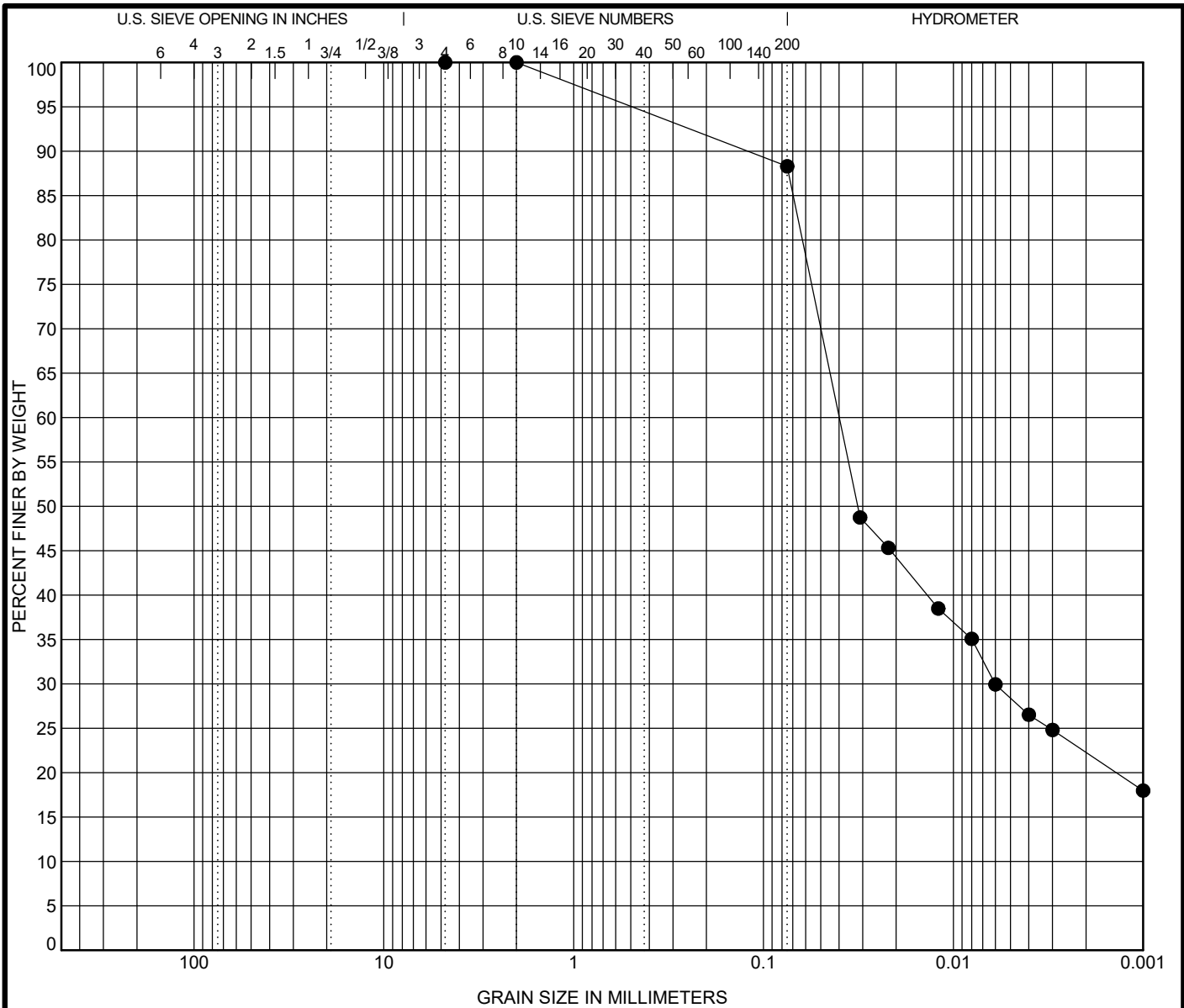


**GRADATION CURVE**

**Project:** Pace Analytical  
WF23001  
Cayce, South Carolina

**Contract:** 08190058.00.497-509

SIEVE 1/SHEET HYDROMETERS-2020-2021.GPJ TEST TEMPLATE.GDT 7/8/21



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description					LL	PL	PI	Test Method
L-35-0-3 0.0 ft	SILT (ML), brown					--	--	--	Atterberg ASTM D4318
Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay	
<b>ASTM D7928</b>	<b>2</b>	<b>0.04</b>	<b>0.006</b>		<b>0.0</b>	<b>11.7</b>	<b>66.0</b>	<b>22.3</b>	

**Percent Finer**

Sieve Size	200	10	4
% Finer	88.3	100.0	100.0

Tested By	Tested Date	Reviewed by	Calc by
EC	7/1/21	SRH	EC



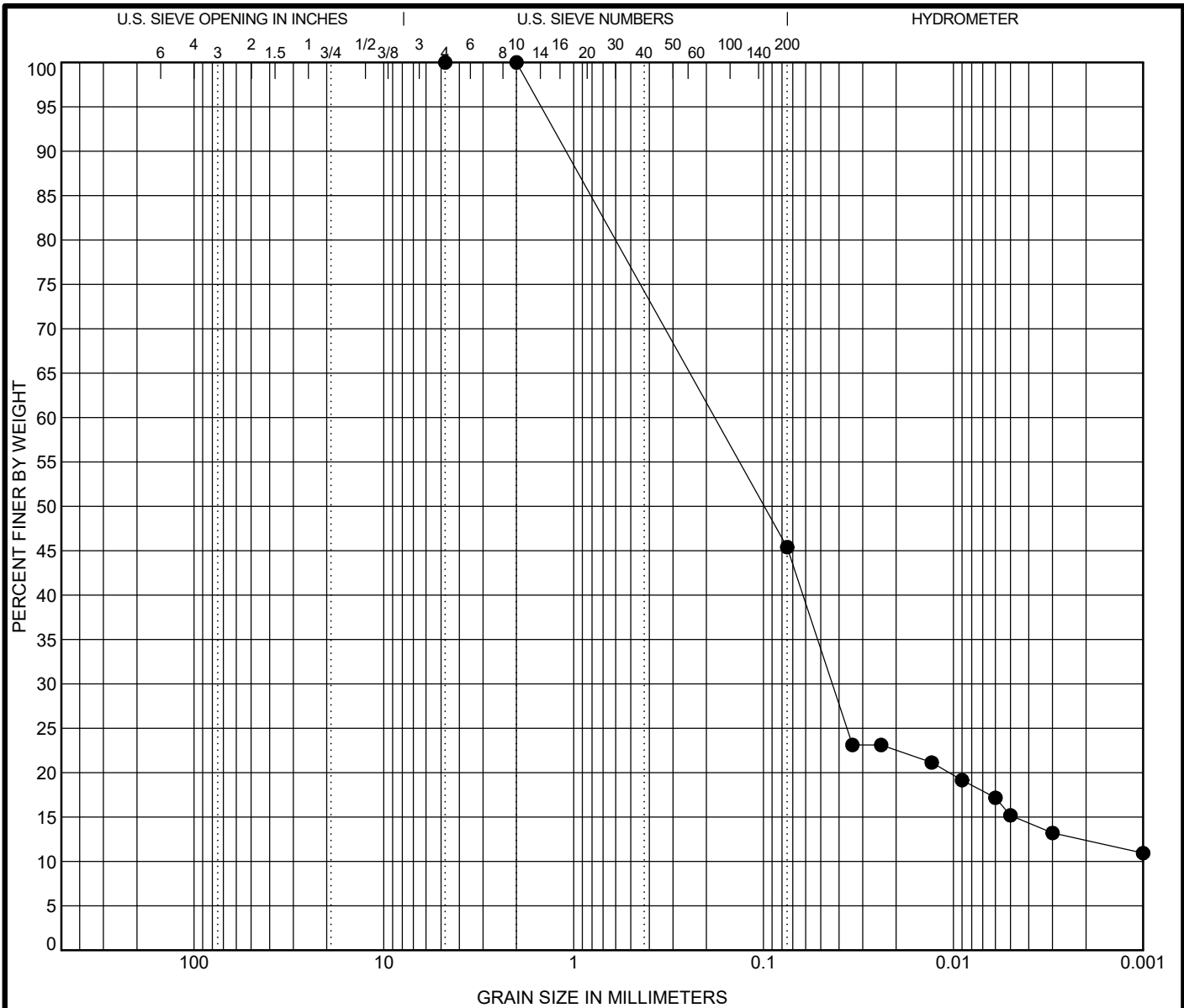
**GRADATION CURVE**

**Project:** Pace Analytical  
WF23001  
Cayce, South Carolina

**Contract:** 08190058.00.497-509

SIEVE 1/SHEET HYDROMETERS-2020-2021.GPJ TEST TEMPLATE.GDT 7/8/21





COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description					LL	PL	PI	Test Method
L-35-3-5 3.0 ft	SILTY SAND (SM), brown					--	--	--	Atterberg ASTM D4318
Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay	
<b>ASTM D7928</b>	<b>2</b>	<b>0.18</b>	<b>0.043</b>		<b>0.0</b>	<b>54.6</b>	<b>33.0</b>	<b>12.4</b>	

**Percent Finer**

Sieve Size	200	10	4
% Finer	45.4	100.0	100.0

Tested By	Tested Date	Reviewed by	Calc by
EC	7/1/21	SRH	EC

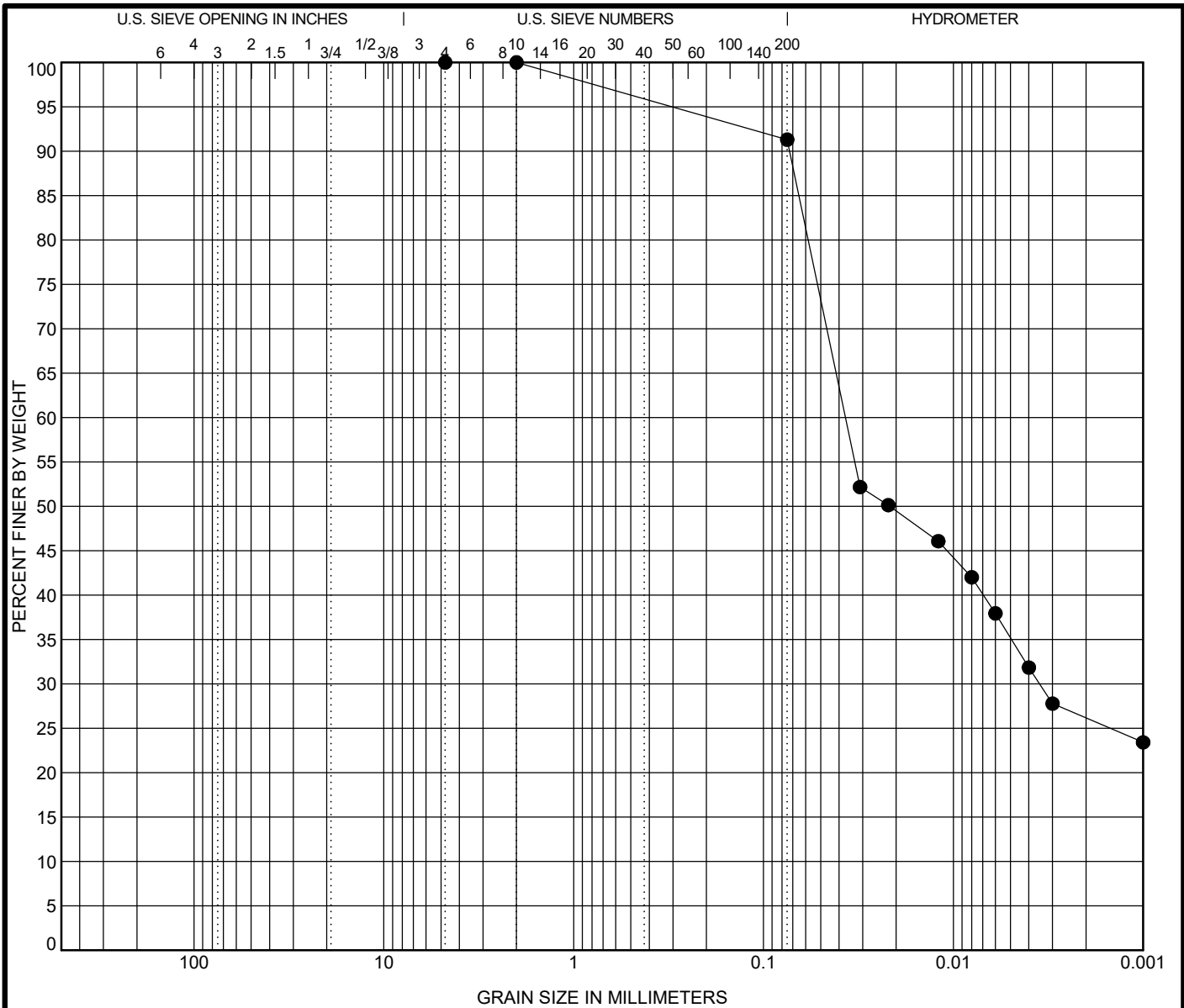


**GRADATION CURVE**

**Project:** Pace Analytical  
WF23001  
Cayce, South Carolina

**Contract:** 08190058.00.497-509

SIEVE 1/SHEET HYDROMETERS-2020-2021.GPJ TEST TEMPLATE.GDT 7/8/21



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description					LL	PL	PI	Test Method	
L-42-0-2	0.0 ft	SILT (ML), brown					--	--	--	Atterberg ASTM D4318
Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
<b>ASTM D7928</b>	<b>2</b>	<b>0.037</b>	<b>0.004</b>		<b>0.0</b>	<b>8.7</b>	<b>65.1</b>	<b>26.2</b>		

**Percent Finer**

Sieve Size	200	10	4
% Finer	91.3	100.0	100.0

Tested By	Tested Date	Reviewed by	Calc by
EC	7/1/21	SRH	EC

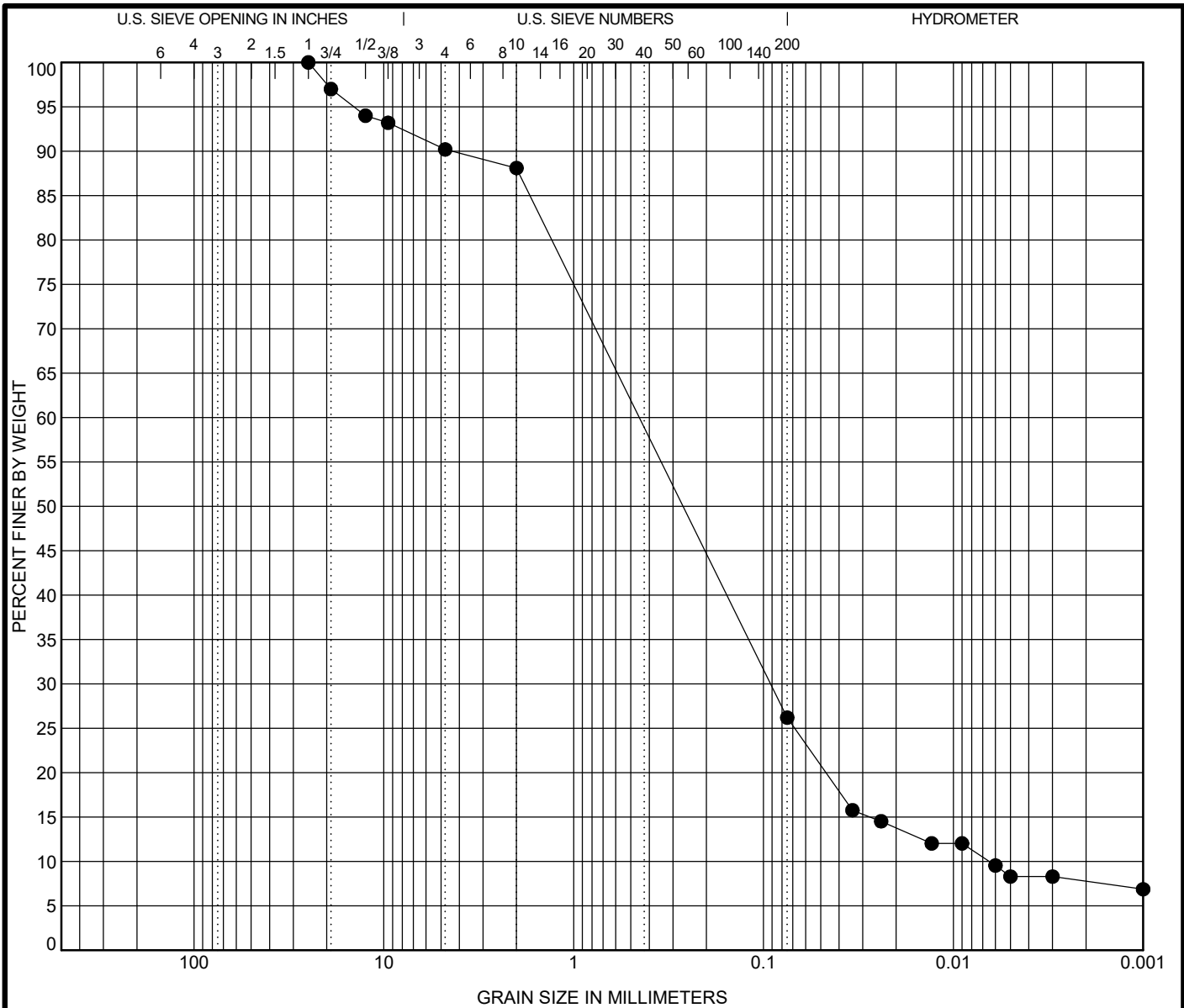


**GRADATION CURVE**

**Project:** Pace Analytical  
WF23001  
Cayce, South Carolina

**Contract:** 08190058.00.497-509

SIEVE 1/SHEET HYDROMETERS-2020-2021.GPJ TEST TEMPLATE.GDT 7/8/21



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description					LL	PL	PI	Test Method
L-45-0-1 0.0 ft	SILTY SAND (SM), trace gravel, brown					--	--	--	Atterberg ASTM D4318
Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay	
ASTM D7928	25	0.451	0.092	0.006	9.8	64.0	18.4	7.8	

Percent Finer							
Sieve Size	200	10	4	3/8"	1/2"	3/4"	1.0"
% Finer	26.2	88.1	90.2	93.2	94.0	97.0	100.0

Tested By	Tested Date	Reviewed by	Calc by
EC	7/1/21	SRH	EC

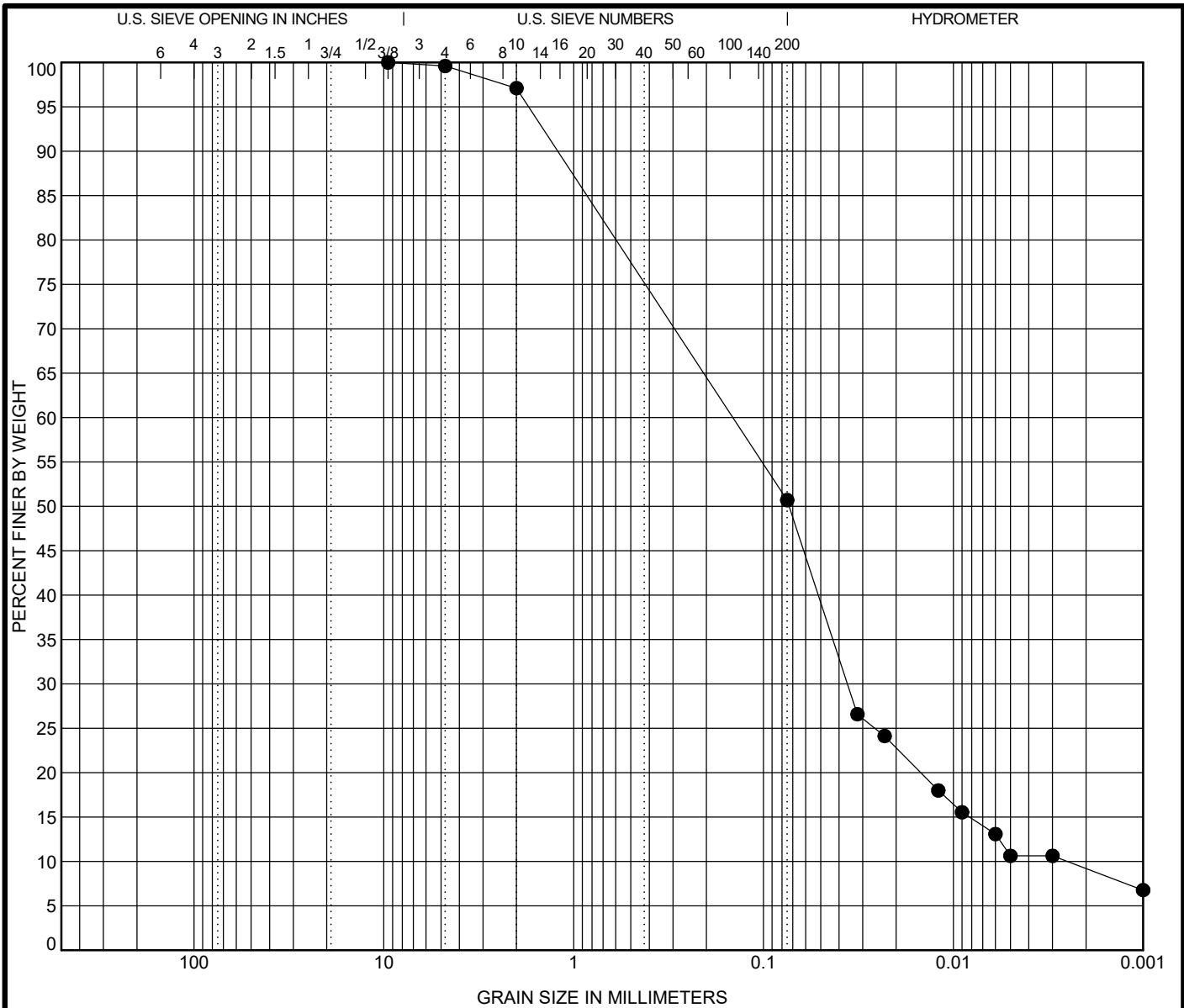


**GRADATION CURVE**

**Project:** Pace Analytical  
WF23001  
Cayce, South Carolina

**Contract:** 08190058.00.497-509

SIEVE 1/SHEET HYDROMETERS-2020-2021.GPJ TEST TEMPLATE.GDT 7/8/21



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description					LL	PL	PI	Test Method
L-45-1-2 1.0 ft	SANDY SILT (ML), yellowish brown					--	--	--	Atterberg ASTM D4318
Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay	
ASTM D7928	9.5	0.145	0.036	0.003	0.4	48.9	41.5	9.2	

**Percent Finer**

Sieve Size	200	10	4	3/8"
% Finer	50.7	97.1	99.6	100.0

Tested By	Tested Date	Reviewed by	Calc by
EC	7/1/21	SRH	EC

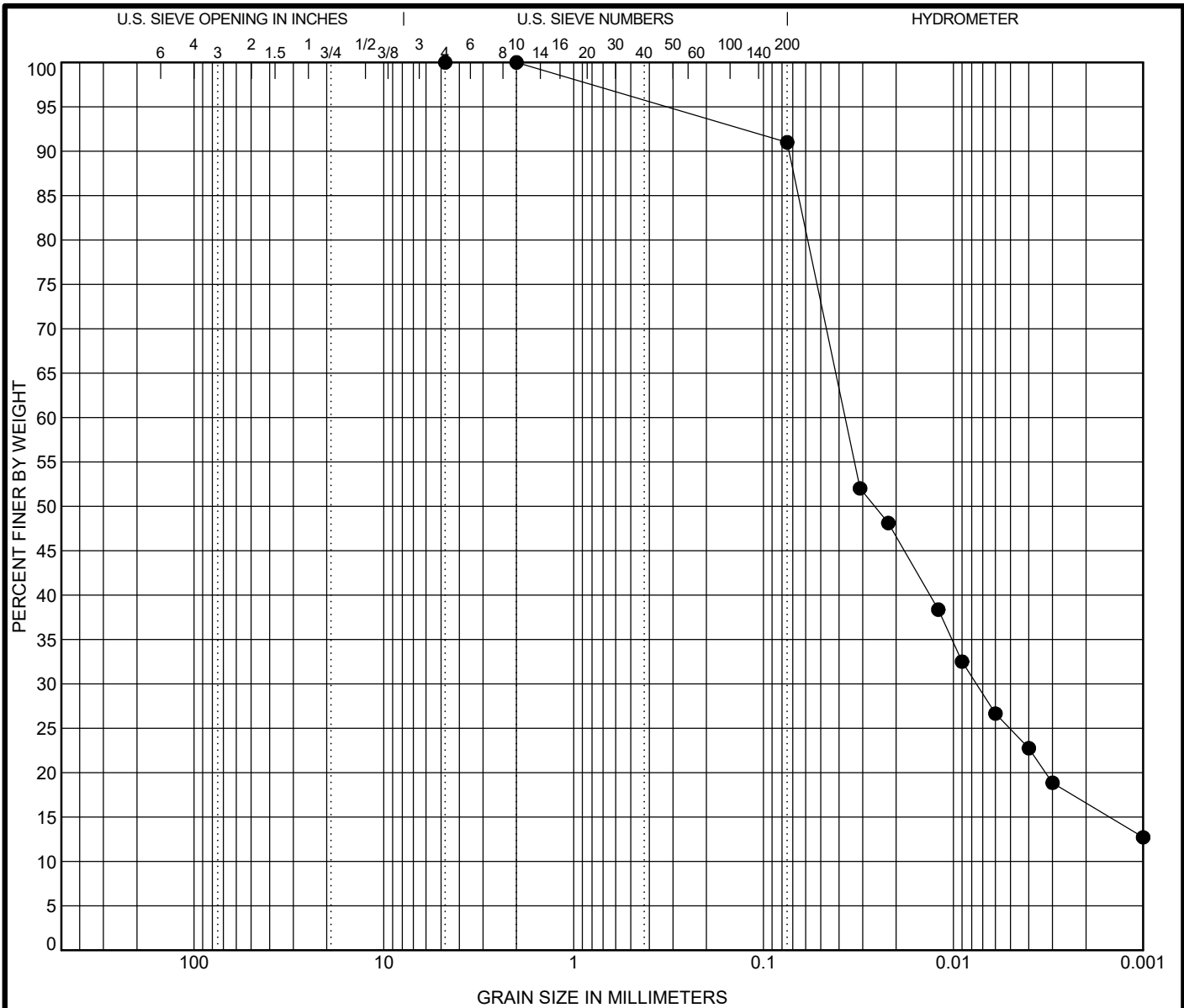


**GRADATION CURVE**

**Project:** Pace Analytical  
WF23001  
Cayce, South Carolina

**Contract:** 08190058.00.497-509

SIEVE 1/SHEET HYDROMETERS-2020-2021.GPJ TEST TEMPLATE.GDT 7/8/21



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description					LL	PL	PI	Test Method
L-45-2-5 2.0 ft	SILT (ML), brown					--	--	--	Atterberg ASTM D4318
Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay	
<b>ASTM D7928</b>	<b>2</b>	<b>0.037</b>	<b>0.008</b>		<b>0.0</b>	<b>9.0</b>	<b>74.4</b>	<b>16.6</b>	

**Percent Finer**

Sieve Size	200	10	4
% Finer	91.0	100.0	100.0

Tested By	Tested Date	Reviewed by	Calc by
EC	7/1/21	SRH	EC

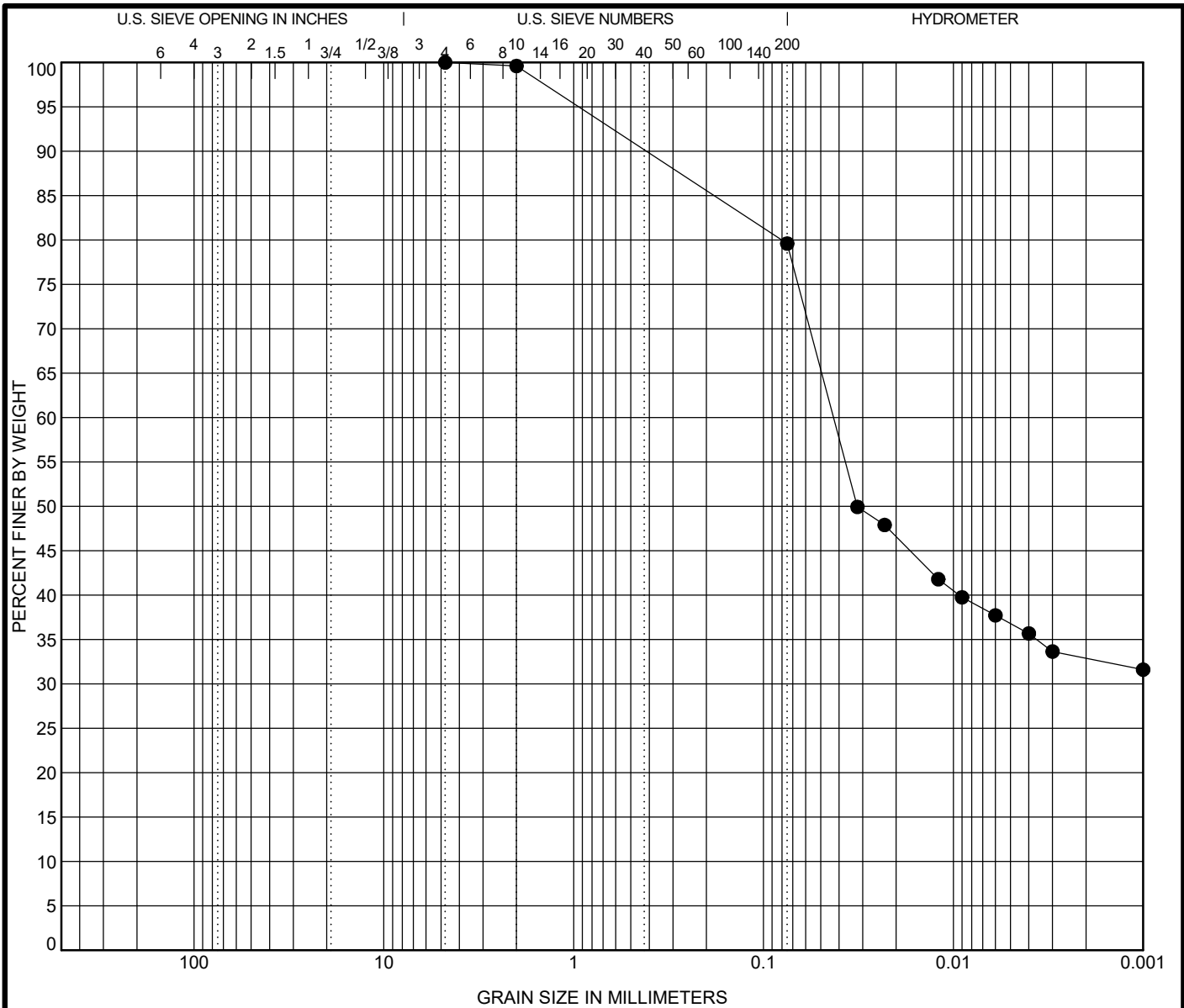


**GRADATION CURVE**

**Project:** Pace Analytical  
WF23001  
Cayce, South Carolina

**Contract:** 08190058.00.497-509

SIEVE 1/SHEET HYDROMETERS-2020-2021.GPJ TEST TEMPLATE.GDT 7/8/21



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description					LL	PL	PI	Test Method	
L-58-0-2	0.0 ft	SILT WITH SAND (ML), brown					--	--	--	Atterberg ASTM D4318
Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
<b>ASTM D7928</b>	<b>4.75</b>	<b>0.043</b>			<b>0.0</b>	<b>20.4</b>	<b>46.7</b>	<b>32.9</b>		

**Percent Finer**

Sieve Size	200	10	4
% Finer	79.6	99.6	100.0

Tested By	Tested Date	Reviewed by	Calc by
EC	7/1/21	SRH	EC

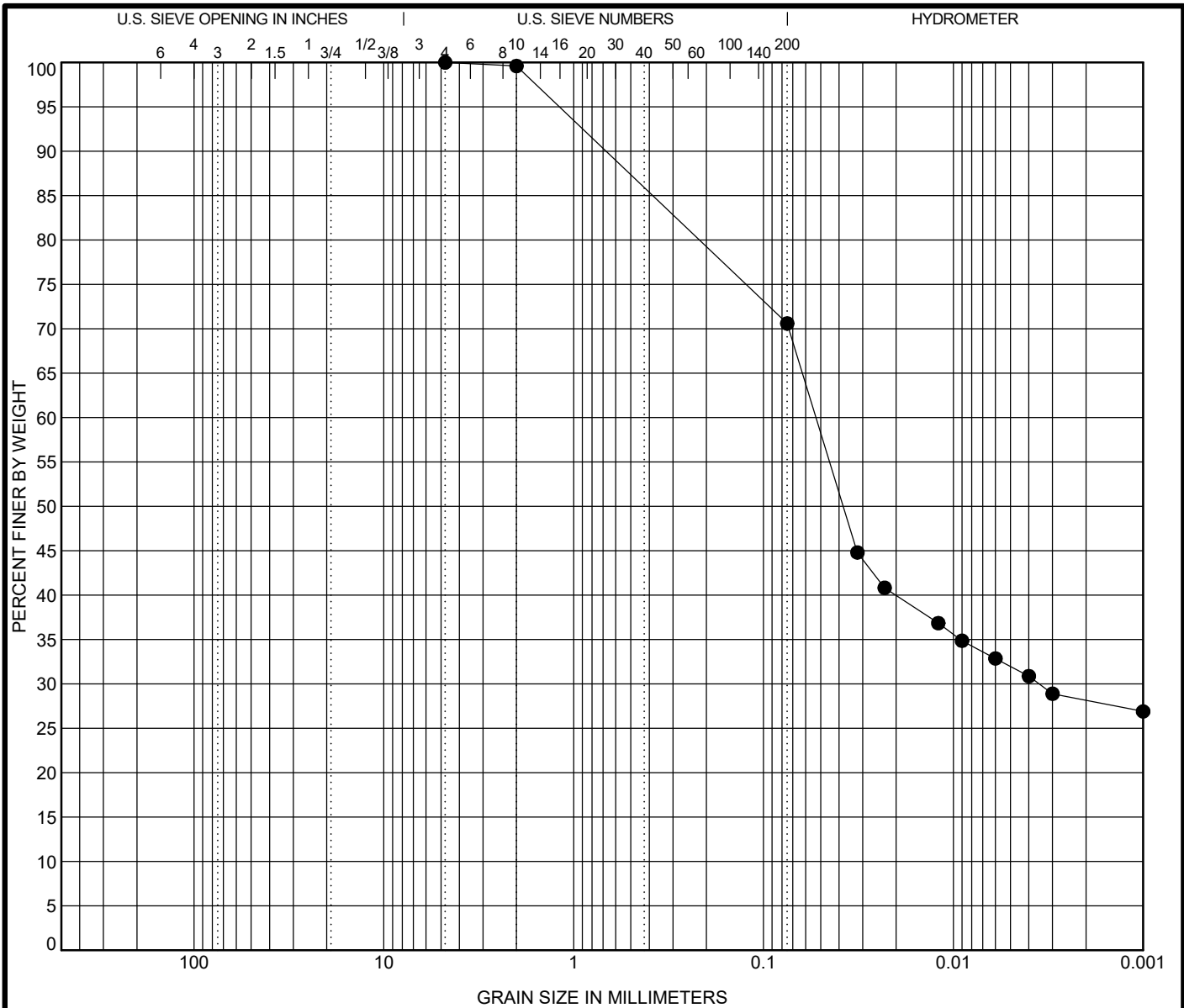


**GRADATION CURVE**

**Project:** Pace Analytical  
WF23001  
Cayce, South Carolina

**Contract:** 08190058.00.497-509

SIEVE 1/SHEET HYDROMETERS-2020-2021.GPJ TEST TEMPLATE.GDT 7/8/21



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description					LL	PL	PI	Test Method
LI-59-0-2 0.0 ft	SILT WITH SAND (ML), reddish brown					--	--	--	Atterberg ASTM D4318
Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay	
<b>ASTM D7928</b>	<b>4.75</b>	<b>0.053</b>	<b>0.004</b>		<b>0.0</b>	<b>29.4</b>	<b>42.4</b>	<b>28.2</b>	

**Percent Finer**

Sieve Size	200	10	4
% Finer	70.6	99.6	100.0

Tested By	Tested Date	Reviewed by	Calc by
EC	7/1/21	SRH	EC

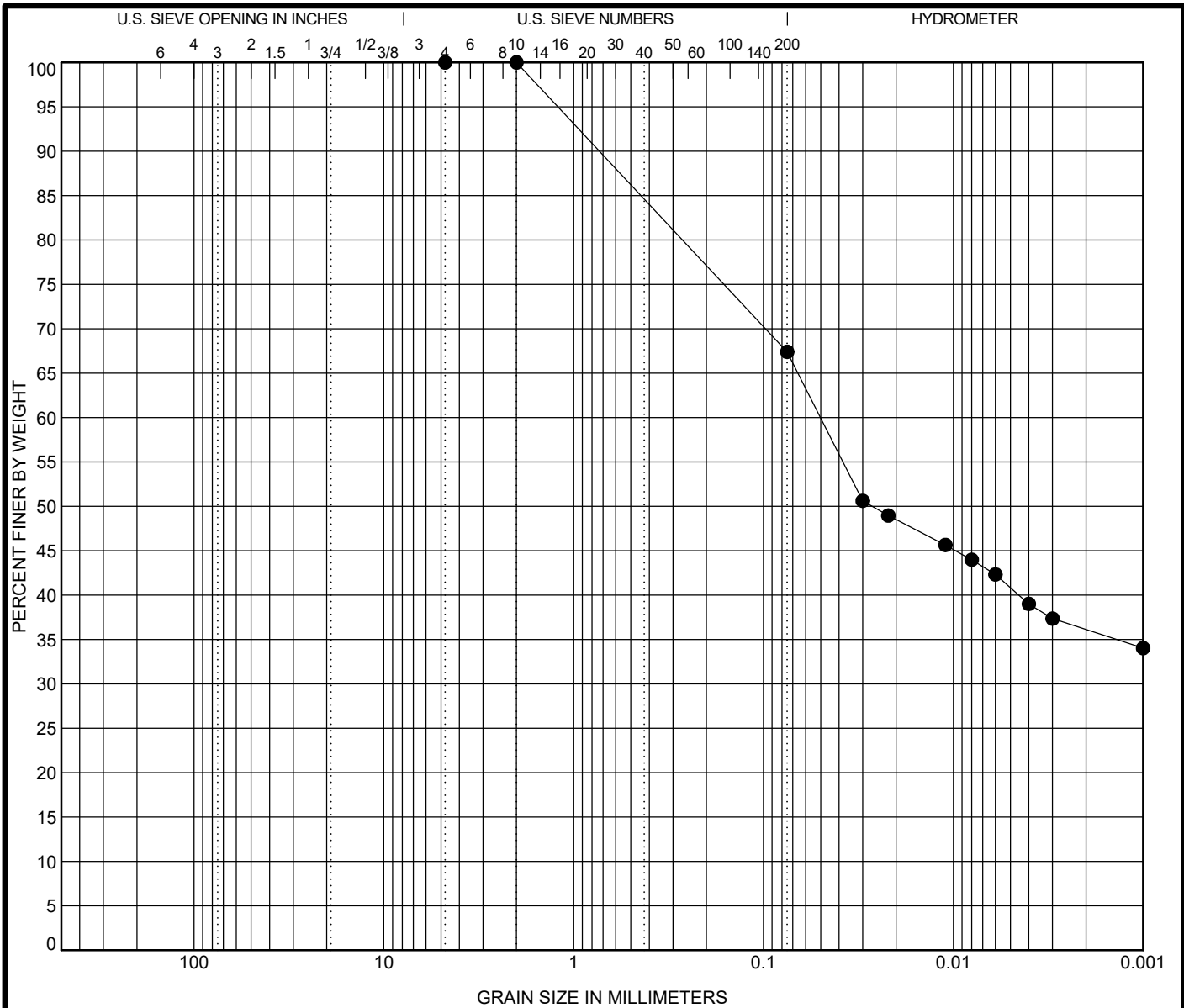


**GRADATION CURVE**

**Project:** Pace Analytical  
WF23001  
Cayce, South Carolina

**Contract:** 08190058.00.497-509

SIEVE 1/SHEET HYDROMETERS-2020-2021.GPJ TEST TEMPLATE.GDT 7/8/21



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description	LL	PL	PI	Test Method			
W-101-2      2.0 ft	<b>SANDY SILTY CLAY (CL-ML), reddish brown</b>	--	--	--	Atterberg ASTM D4318			
Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
<b>ASTM D7928</b>	<b>2</b>	<b>0.05</b>			<b>0.0</b>	<b>32.6</b>	<b>31.3</b>	<b>36.1</b>

**Percent Finer**

Sieve Size	200	10	4
% Finer	67.4	100.0	100.0

Tested By	Tested Date	Reviewed by	Calc by
EC	7/1/21	SRH	EC



**GRADATION CURVE**

**Project:** Pace Analytical  
WF23001  
Cayce, South Carolina

**Contract:** 08190058.00.497-509

SIEVE 1/SHEET HYDROMETERS-2020-2021.GPJ TEST TEMPLATE.GDT 7/8/21





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## Report of Analysis

**Westinghouse Electric Company**  
5801 Bluff Rd.  
Hopkins, SC 29061  
Attention: Diana Joyner

Project Name: RI Phase II-Grainsize

Lot Number: **WF23002**

Date Completed: 06/25/2021

Project Manager: **Blaire M. Gagne**

*Hannah K Lucas*

07/08/2021 4:07 PM

Approved and released by:  
Project Manager I: **Hannah K. Lucas**

The electronic signature above is the equivalent of a handwritten signature.  
This report shall not be reproduced, except in its entirety, without the written approval of Pace Analytical Services, LLC.

# PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

## **Case Narrative Westinghouse Electric Company Lot Number: WF23002**

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

Grain Size analysis was subcontracted to Schnabel Engineering. The report is included after the Pace report of analysis.

# PACE ANALYTICAL SERVICES, LLC

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Sample Summary  
Westinghouse Electric Company  
Lot Number: WF23002  
Project Name: RI Phase II-Grainsize  
Project Number:

---

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	SED-16-0-1	Aqueous	06/21/2021	06/21/2021
002	SED-20-0-1	Aqueous	06/21/2021	06/21/2021
003	SED-21-1-2	Aqueous	06/21/2021	06/21/2021
004	SED-40-0-1	Aqueous	06/21/2021	06/21/2021
005	SED-57-1-1.5	Aqueous	06/21/2021	06/21/2021

---

(5 samples)

# PACE ANALYTICAL SERVICES, LLC

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Detection Summary  
Westinghouse Electric Company  
Lot Number: WF23002  
Project Name: RI Phase II-Grainsize  
Project Number:

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Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
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(0 detections)

## QC Summary

Chain of Custody  
and  
Miscellaneous Documents



**PACE ANALYTICAL SERVICES, LLC**  
 106 Vantage Point Drive - West Columbia, SC 29172  
 Telephone No. 803-791-9700 Fax No. 803-791-9111  
 www.pacelabs.com

**Number 120126**

Client: Westinghouse Report to: Carroll Diana Joyner Telephone No. / E-mail: 10yardp@westinghouse.com Quote No. \_\_\_\_\_

Address: 5801 bluff rd. Sampler's Signature: Charles K. Suedeth Analysis (Attach list if more space is needed): \_\_\_\_\_ Pages: 1 of 1

City: Hopkins State: SC Zip Code: 29061 Printed Name: Chuck Suedeth

Project Name: RI Phase II Project No. \_\_\_\_\_

Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	Matrix				No. of Containers by Presentation Type				Remarks / Cooler I.D.	
			SED	SL	SL	SL	SED	SL	SL	SL		
SED-16-0-1			X				1					
SED-20-0-1			X				1					
SED-21-1-2			X				1					
SED-40-0-1			X				1					
SED-57-1-15			X				1					

Barcode: **WF23002**

Turn Around Time Required (Prior lab approval required for expedited RTT):  
 Standard  Rush (Specify) \_\_\_\_\_

Sample Disposal:  
 Return to Client  Dispose by (with) \_\_\_\_\_

Possible Hazard Identification:  
 Non-Hazard  Flammable  SWH Irritant  Poison  Unknown

Retrievished by	Date	Time	Date	Time	Date	Time	Date	Time
<u>Charles K. Suedeth</u>	<u>6/21/21</u>	<u>1714</u>						

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

Received on ice (Circle) Yes  No  Receipt Temp: 21.6 °C

Date: 6.21.21 Time: 1714

LAB USE ONLY  
 Laboratory received by: Keaton Mearns  
 Received on ice (Circle) Yes  No

Document Number: MEC02302-01

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Samples(s), PINK-Field/Client Copy

# PACE ANALYTICAL SERVICES, LLC



**Samples Receipt Checklist (SRC) (ME0018C-15)**  
Issuing Authority: Pace ENV - WCOL

Revised: 9/29/2020  
Page 1 of 1

## Sample Receipt Checklist (SRC)

Client: Westinghouse

Cooler Inspected by/date: KSC / 06/23/2021

Lot #: WF23002

Means of receipt: <input type="checkbox"/> Pace <input checked="" type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other:	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1. Were custody seals present on the cooler?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA	
Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cap ID: NA	
21.6 / 21.6 °C NA / NA °C NA / NA °C NA / NA °C	
Method: <input type="checkbox"/> Temperature Blank <input checked="" type="checkbox"/> Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C	
Method of coolant: <input type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input checked="" type="checkbox"/> None	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone ( ) email ( ) face-to-face (circle one).
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	4. Is the commercial courier's packing slip attached to this form?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Were proper custody procedures (relinquished/received) followed?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Were sample IDs listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Were sample IDs listed on all sample containers?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	8. Was collection date & time listed on the COC?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	9. Was collection date & time listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Did all container label information (ID, date, time) agree with the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. Were tests to be performed listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. Was adequate sample volume available?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼" or 6mm in diameter) in any of the VOA vials?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	19. Were all applicable NH <sub>3</sub> /TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	21. Was the quote number listed on the container label? If yes, Quote #
<b>Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)</b>	
Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA	
Time of preservation NA. If more than one preservative is needed, please note in the comments below.	
Sample(s) NA were received with bubbles >6 mm in diameter.	
Sample(s) NA were received with TRC > 0.5 mg/L (If #19 is no) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ) with Shealy ID: NA	
SR barcode labels applied by: KSC Date: 06/23/2021	

Comments:

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104 Corporate Boulevard, Suite 420  
 West Columbia, SC 29169  
 T/ 803-796-6240  
 F/ 803-796-6250

**TRANSMITTAL**


<b>TO:</b>	Blaire Gagne	<b>DATE:</b>	7/8/21
<b>COMPANY:</b>	Pace Analytical	<b>SUBJECT:</b>	Lab Results
<b>ADDRESS:</b>	106 Vantage Point Drive West Columbia, South Carolina 29169	<b>PROJECT NAME/NO.:</b>	Pace Analytical – Westinghouse Schnabel Reference Number: 08190058.00.510-514 Lot No. WF23002
<b>FROM:</b>	Stephen Hahn	<b>CC:</b>	

COPIES	DATE	NO.	DESCRIPTION
1	--	5	Gradation

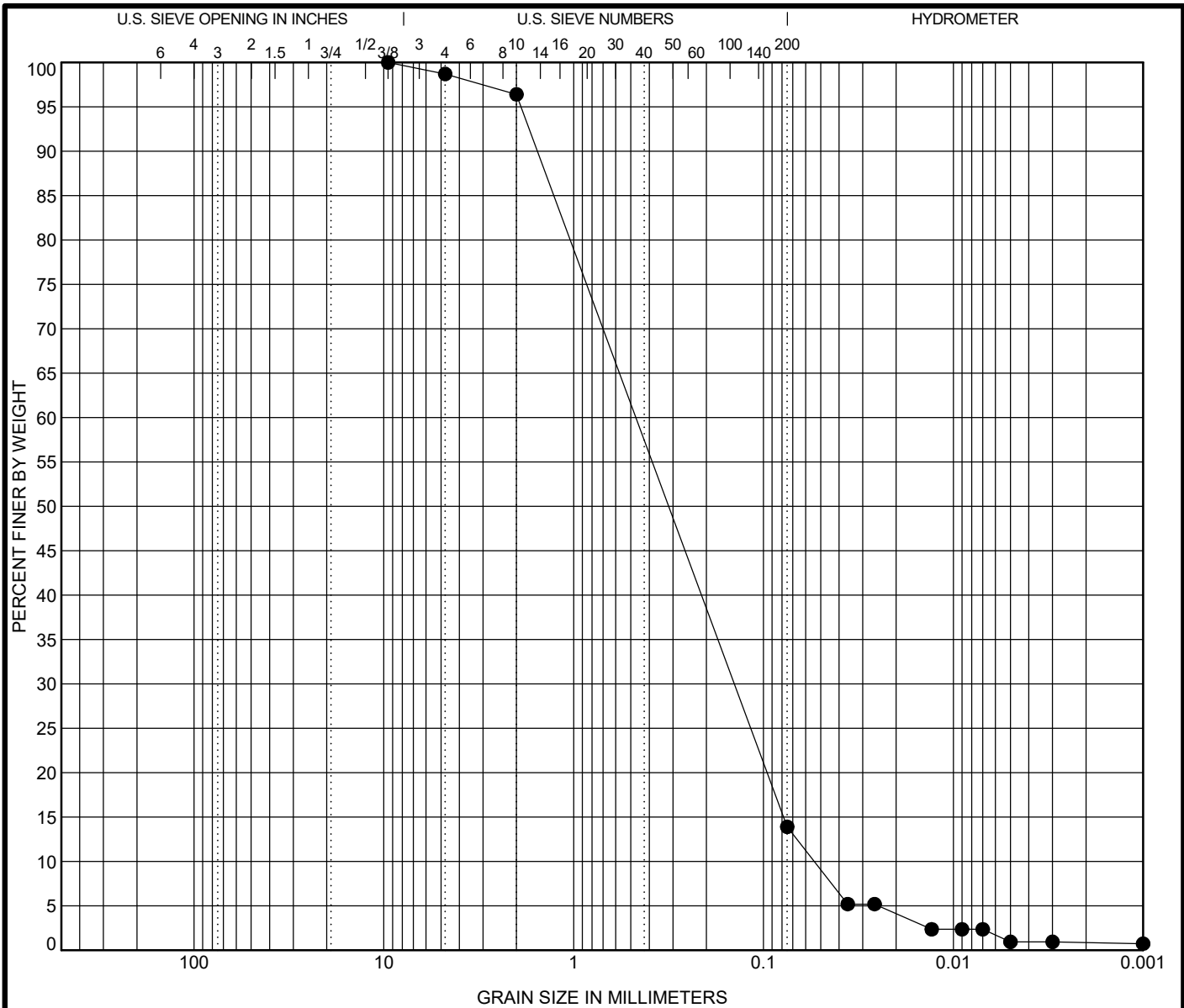
AS REQUESTED       FOR APPROVAL       PLEASE REPLY       FOR YOUR USE

Attached, please find our lab results for sample(s) for Lot no. WF23002.

Please advise if you have any questions.

**SIGNED:**   
 Stephen Hahn

SENT VIA:     First Class Mail     Overnight Service     Email     Other



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description	LL	PL	PI	Test Method			
● SED-16-0-1 0.0 ft	SILTY SAND (SM), grayish brown	--	--	--	Atterberg ASTM D4318			
Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
<b>ASTM D7928</b>	<b>9.5</b>	<b>0.47</b>	<b>0.142</b>	<b>0.054</b>	<b>1.3</b>	<b>84.8</b>	<b>13.0</b>	<b>0.9</b>

**Percent Finer**

Sieve Size	200	10	4	3/8"
% Finer	13.9	96.4	98.7	100.0

Tested By	Tested Date	Reviewed by	Calc by
EC	7/1/21	SRH	EC

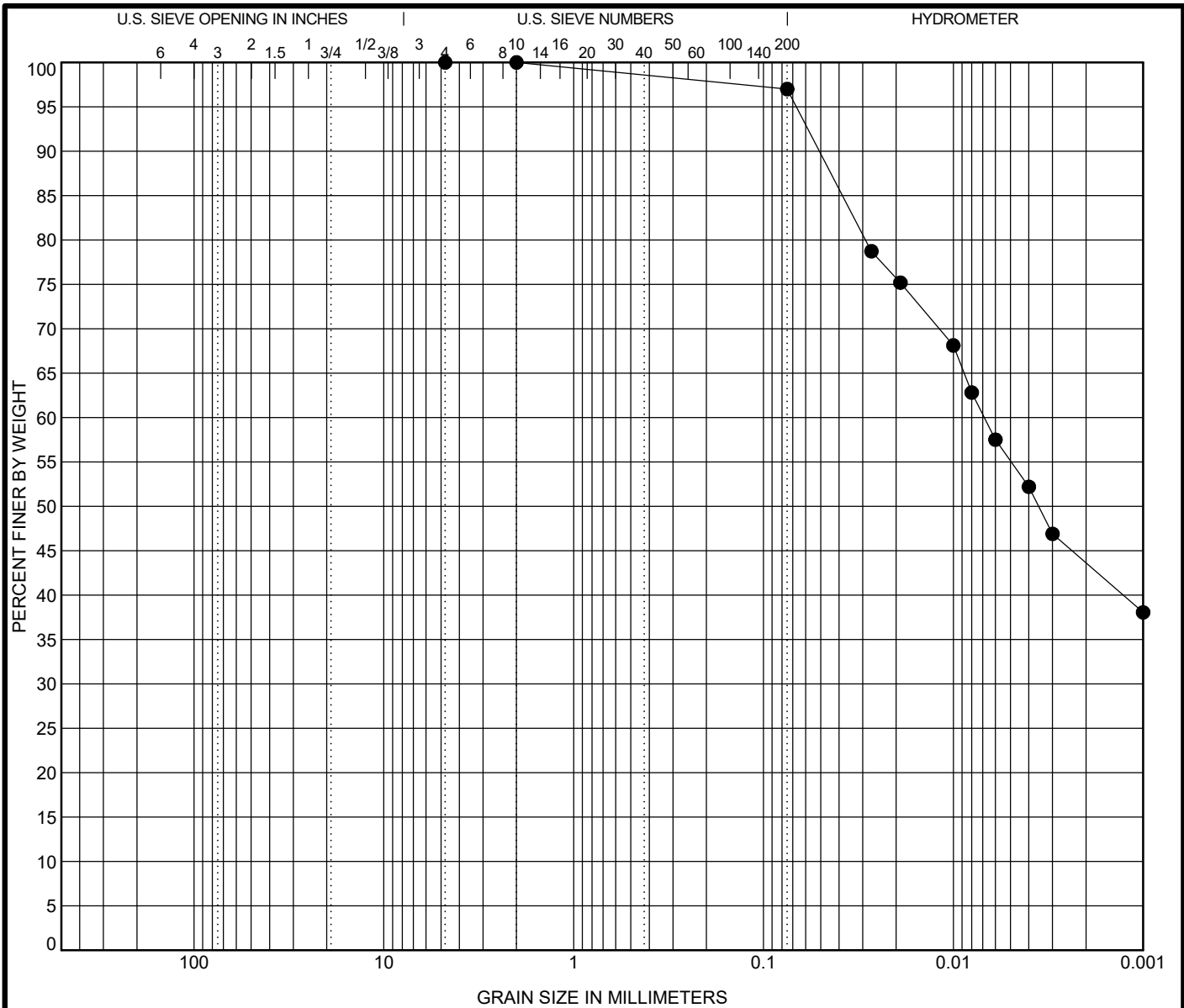


**GRADATION CURVE**

**Project:** Pace Analytical  
WF23002  
Cayce, South Carolina

**Contract:** 08190058.00.510-514

SIEVE 1/SHEET HYDROMETERS-2020-2021.GPJ TEST TEMPLATE.GDT 7/8/21



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description					LL	PL	PI	Test Method
● SED-20-0-1      0.0 ft	SILT (ML), grayish brown					--	--	--	Atterberg ASTM D4318
Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay	
<b>ASTM D7928</b>	<b>2</b>	<b>0.007</b>			<b>0.0</b>	<b>3.0</b>	<b>53.4</b>	<b>43.6</b>	

**Percent Finer**

Sieve Size	200	10	4
% Finer	97.0	100.0	100.0

Tested By	Tested Date	Reviewed by	Calc by
EC	7/1/21	SRH	EC

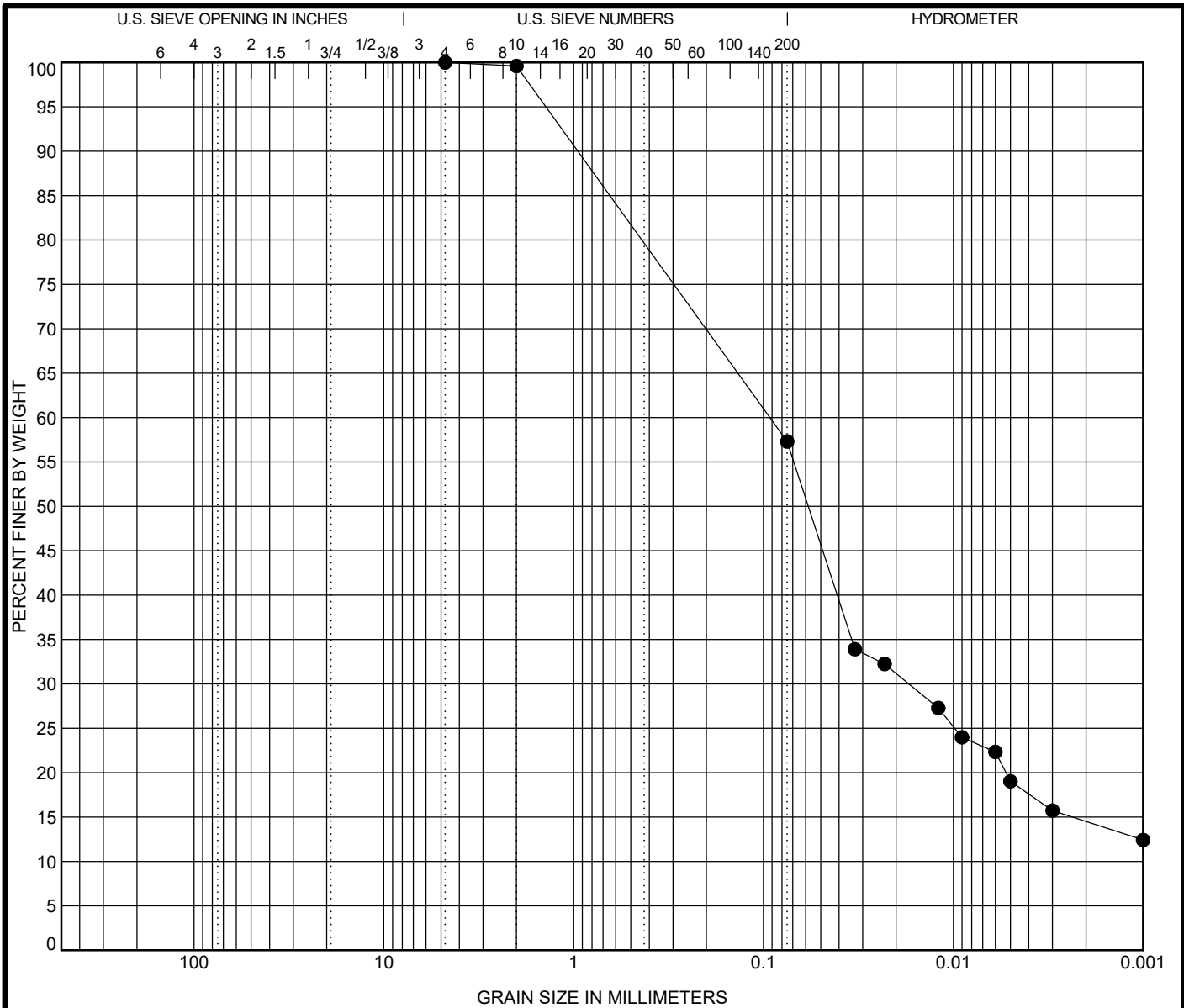


**GRADATION CURVE**

**Project:** Pace Analytical  
WF23002  
Cayce, South Carolina

**Contract:** 08190058.00.510-514

SIEVE 1/SHEET HYDROMETERS-2020-2021.GPJ TEST TEMPLATE.GDT 7/8/21



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description					LL	PL	PI	Test Method
● SED-21-1-2 1.0 ft	SANDY SILT (ML), brown					--	--	--	Atterberg ASTM D4318
Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay	
<b>ASTM D7928</b>	<b>4.75</b>	<b>0.092</b>	<b>0.017</b>		<b>0.0</b>	<b>42.7</b>	<b>42.8</b>	<b>14.5</b>	

**Percent Finer**

Sieve Size	200	10	4
% Finer	57.3	99.6	100.0

Tested By	Tested Date	Reviewed by	Calc by
EC	7/1/21	SRH	EC

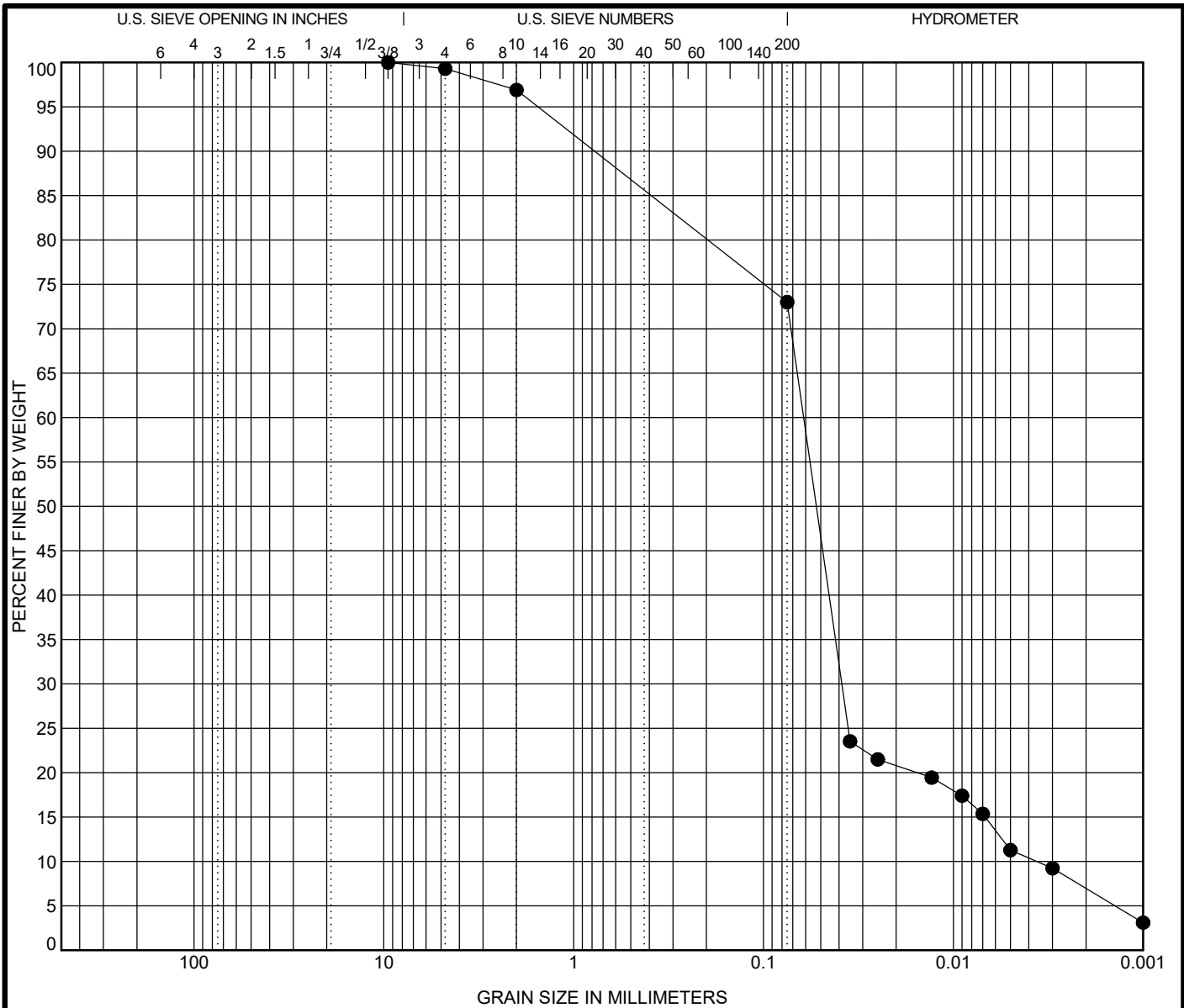


**GRADATION CURVE**

**Project:** Pace Analytical  
WF23002  
Cayce, South Carolina

**Contract:** 08190058.00.510-514

SIEVE 1/SHEET HYDROMETERS-2020-2021.GPJ TEST TEMPLATE.GDT 7/8/21



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description	LL	PL	PI	Test Method			
● SED-40-0-1      0.0 ft	<b>SILT WITH SAND (ML), brown</b>	--	--	--	Atterberg ASTM D4318			
Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
<b>ASTM D7928</b>	<b>9.5</b>	<b>0.061</b>	<b>0.039</b>	<b>0.004</b>	<b>0.7</b>	<b>26.3</b>	<b>66.0</b>	<b>7.0</b>

**Percent Finer**

Sieve Size	200	10	4	3/8"
% Finer	73.0	96.9	99.3	100.0

Tested By	Tested Date	Reviewed by	Calc by
EC	7/1/21	SRH	EC

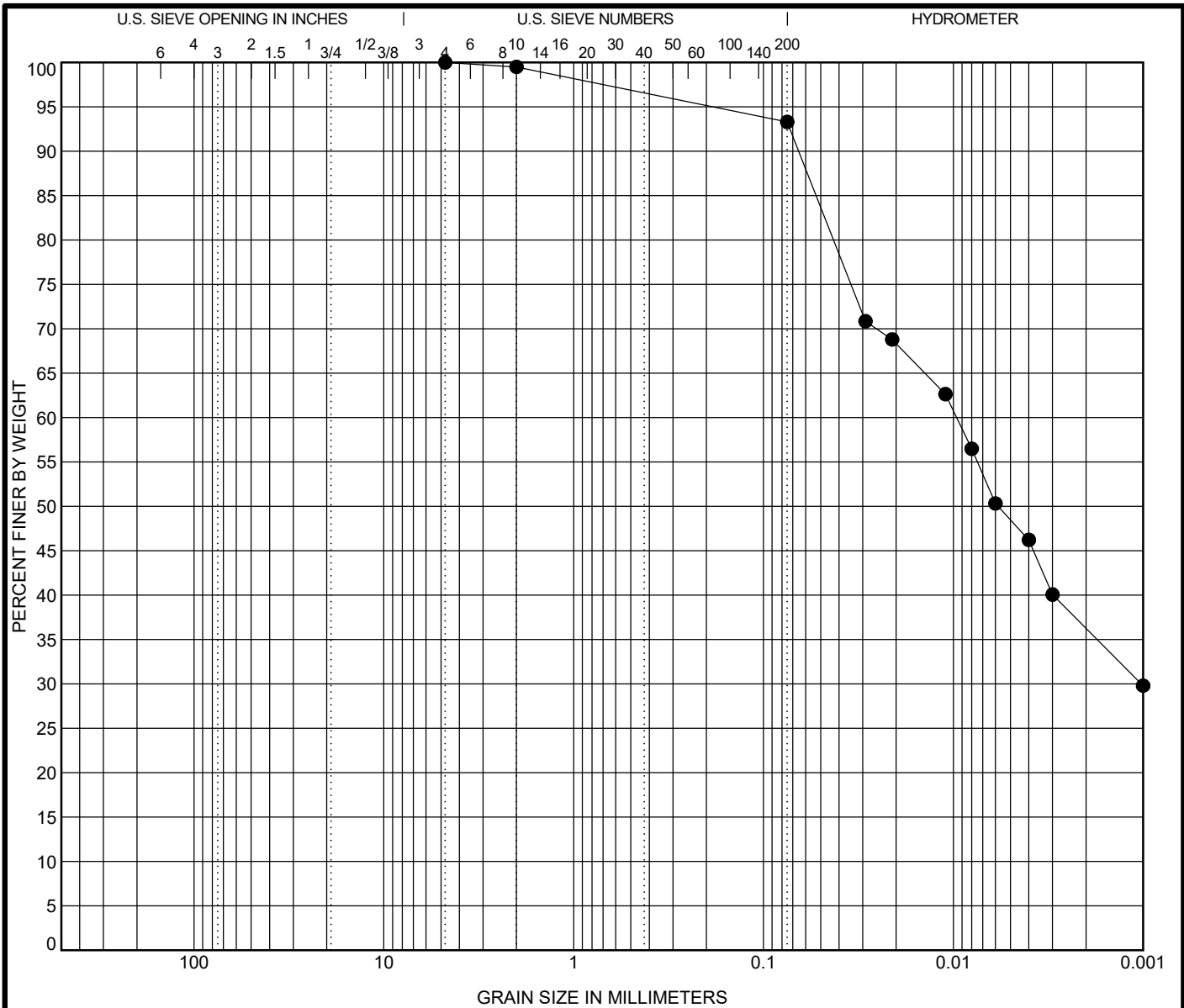


**GRADATION CURVE**

**Project:** Pace Analytical  
WF23002  
Cayce, South Carolina

**Contract:** 08190058.00.510-514

SIEVE 1/SHEET HYDROMETERS-2020-2021.GPJ TEST TEMPLATE.GDT 7/8/21



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description	LL	PL	PI	Test Method			
● SED-57-1-1.5 1.0 ft	SILT (ML), grayish brown	--	--	--	Atterberg ASTM D4318			
Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
<b>ASTM D7928</b>	<b>4.75</b>	<b>0.01</b>	<b>0.001</b>		<b>0.0</b>	<b>6.7</b>	<b>57.0</b>	<b>36.3</b>

**Percent Finer**

Sieve Size	200	10	4
% Finer	93.3	99.5	100.0

Tested By	Tested Date	Reviewed by	Calc by
EC	7/1/21	SRH	EC



**GRADATION CURVE**

**Project:** Pace Analytical  
WF23002  
Cayce, South Carolina

**Contract:** 08190058.00.510-514

SIEVE 1/SHEET HYDROMETERS-2020-2021.GPJ TEST TEMPLATE.GDT 7/8/21