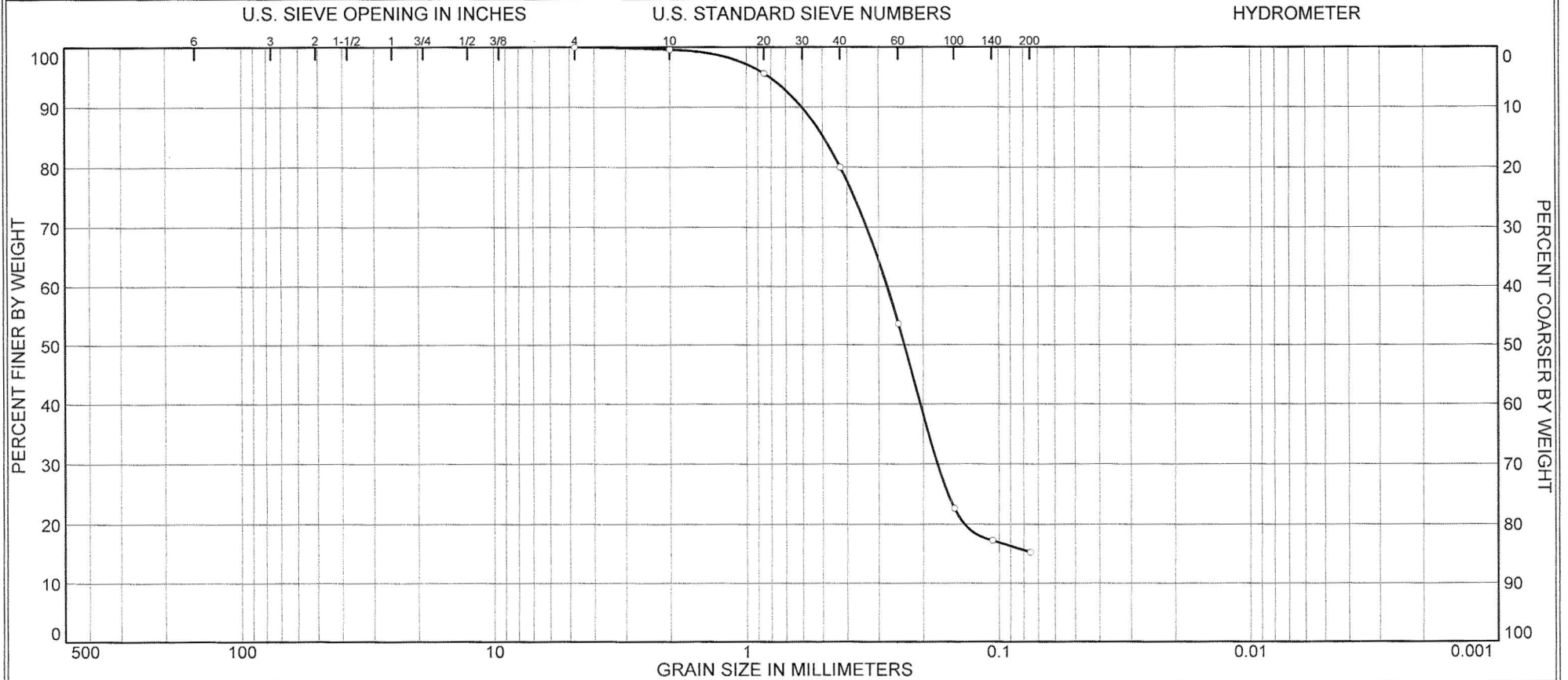


Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.4	19.6	64.8	15.2	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G13	G13-1	231.38'	N/A		Red Silty sand	7.4		

Client GPC c/o SNOC		MACTEC ENGINEERING AND CONSULTING, INC.	○ Tested by: SW Reviewed by: MC
Project Vogtle Units 3 & 4 Test Pad Project			
Project No. 6141-06-0286.54			

GRAIN SIZE DISTRIBUTION TEST DATA

Client: GPC c/o SNOC
Project: Vogtle Units 3 & 4 Test Pad Project
Project Number: 6141-06-0286.54

Sample Data

Source: Test Pad Backfill G13
Sample No.: G13-1
Elev. or Depth: 231.38' **Sample Length(in./cm.):** N/A
Location: G13-1
Description: Red Silty sand
Date: N/A **Natural Moisture:** 7.4
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: SW Reviewed by: MC

Mechanical Analysis Data

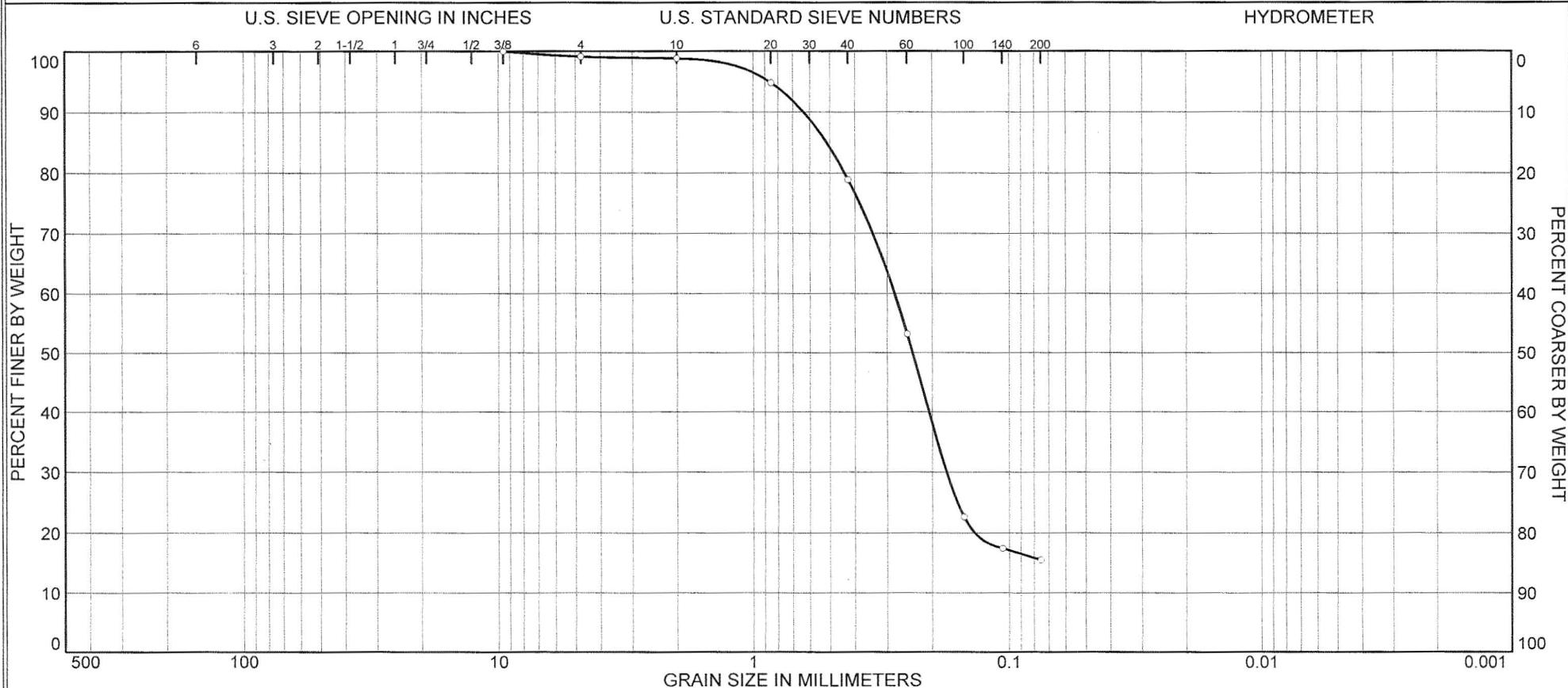
	Initial	
Dry sample and tare=	202.54	
Tare =	64.35	
Dry sample weight =	138.19	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.59	99.6
# 20	6.08	95.6
# 40	27.65	80.0
# 60	64.11	53.6
# 100	106.95	22.6
# 140	114.48	17.2
# 200	117.22	15.2

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 84.8 (**% coarse = 0.4** **% medium = 19.6** **% fine = 64.8**)
% FINES = 15.2

D₈₅ = 0.50 **D₆₀ = 0.28** **D₅₀ = 0.24**
D₃₀ = 0.18

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.9	0.3	19.9	63.4	15.5	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G13	G13-2	231.36'	N/A		Red Silty sand	7.4		

Client GPC c/o SNOC		MACTEC ENGINEERING AND CONSULTING, INC.	○ Tested by: SW Reviewed by: MC
Project Vogtle Units 3 & 4 Test Pad Project			
Project No. 6141-06-0286.54			

GRAIN SIZE DISTRIBUTION TEST DATA

Client: GPC c/o SNOC
Project: Vogtle Units 3 & 4 Test Pad Project
Project Number: 6141-06-0286.54

Sample Data

Source: Test Pad Backfill G13
Sample No.: G13-2
Elev. or Depth: 231.36' **Sample Length(in./cm.):** N/A
Location: G13-2
Description: Red Silty sand
Date: N/A **Natural Moisture:** 7.4
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: SW Reviewed by: MC

Mechanical Analysis Data

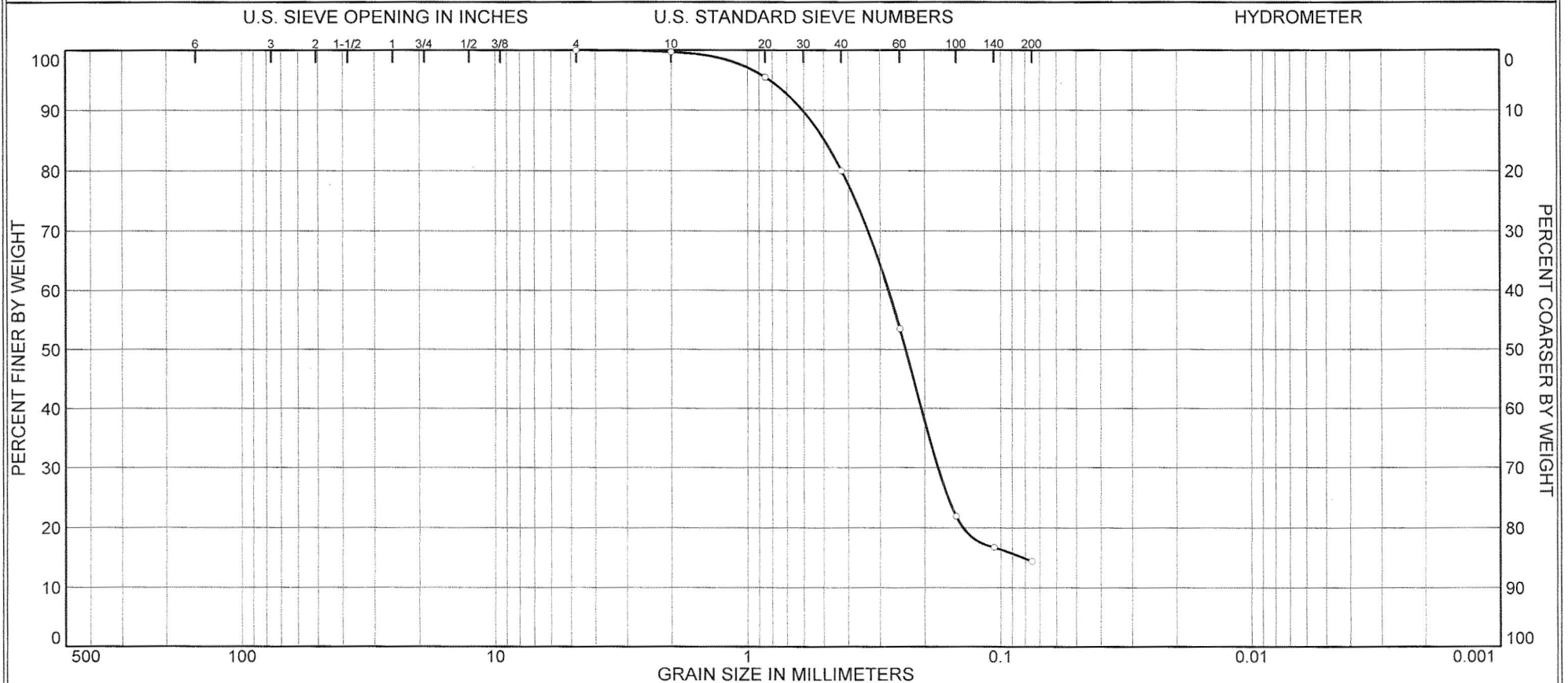
	Initial	
Dry sample and tare=	200.99	
Tare =	64.17	
Dry sample weight =	136.82	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	1.27	99.1
# 10	1.65	98.8
# 20	7.07	94.8
# 40	28.93	78.9
# 60	64.07	53.2
# 100	105.90	22.6
# 140	112.95	17.4
# 200	115.58	15.5

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL = 0.9** (**% coarse =** **% fine = 0.9**)
% SAND = 83.6 (**% coarse = 0.3** **% medium = 19.9** **% fine = 63.4**)
% FINES = 15.5

D85= 0.52 D60= 0.28 D50= 0.24
D30= 0.18

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.3	19.7	65.6	14.4	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G13	G13-3	231.42'	N/A		Red Silty sand	7.0		

Client GPC c/o SNOG	MACTEC ENGINEERING AND CONSULTING, INC.	Tested by: SW Reviewed by: MC
Project Vogtle Units 3 & 4 Test Pad Project		
Project No. 6141-06-0286.54		

GRAIN SIZE DISTRIBUTION TEST DATA

Client: GPC c/o SNOC
Project: Vogtle Units 3 & 4 Test Pad Project
Project Number: 6141-06-0286.54

Sample Data

Source: Test Pad Backfill G13
Sample No.: G13-3
Elev. or Depth: 231.42' **Sample Length(in./cm.):** N/A
Location: G13-3
Description: Red Silty sand
Date: N/A **Natural Moisture:** 7.0
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: SW Reviewed by: MC

Mechanical Analysis Data

	Initial	
Dry sample and tare=	207.80	
Tare =	70.22	
Dry sample weight =	137.58	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.46	99.7
# 20	6.18	95.5
# 40	27.54	80.0
# 60	63.93	53.5
# 100	107.40	21.9
# 140	114.66	16.7
# 200	117.75	14.4

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 85.6 (**% coarse = 0.3** **% medium = 19.7** **% fine = 65.6)**
% FINES = 14.4

D85= 0.50 **D60= 0.28** **D50= 0.24**
D30= 0.18 **D15= 0.08**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.2	0.5	19.7	63.5	16.1	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G13	G13-4	231.34'	N/A	SM	Red Silty sand	7.2	NV	NP

Client GPC c/o SNOG	MACTEC ENGINEERING AND CONSULTING, INC.	Tested by: SW Reviewed by: MC
Project Vogtle Units 3 & 4 Test Pad Project		
Project No. 6141-06-0286.54		

GRAIN SIZE DISTRIBUTION TEST DATA

Client: GPC c/o SNOG
Project: Vogtle Units 3 & 4 Test Pad Project
Project Number: 6141-06-0286.54

Sample Data

Source: Test Pad Backfill G13
Sample No.: G13-4
Elev. or Depth: 231.34' **Sample Length(in./cm.):** N/A
Location: G13-4
Description: Red Silty sand
Date: N/A **Natural Moisture:** 7.2
Liquid Limit: NV **Plastic Limit:** NP **USCS Class.:** SM
Testing Remarks: Tested by: SW Reviewed by: MC

Mechanical Analysis Data

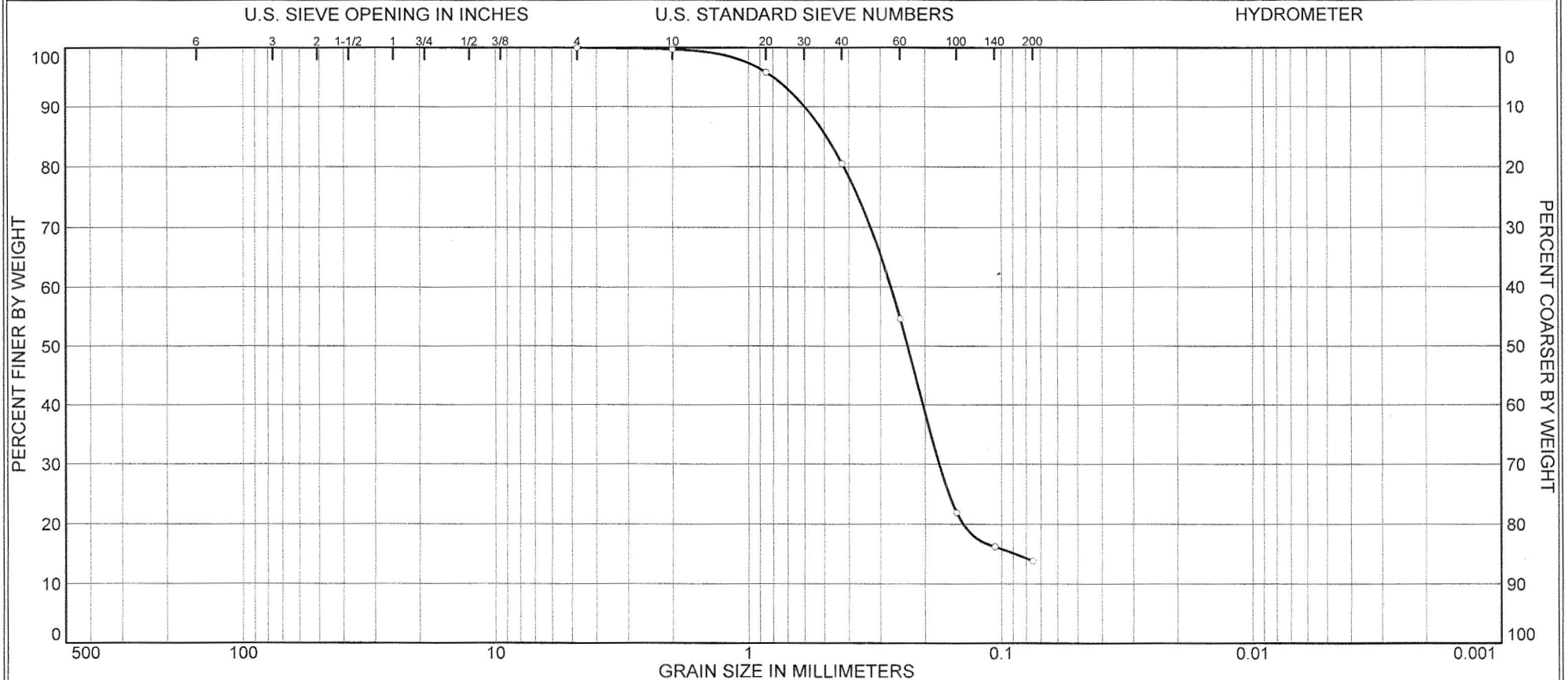
	Initial	
Dry sample and tare=	203.25	
Tare =	64.35	
Dry sample weight =	138.90	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.27	99.8
# 10	1.04	99.3
# 20	6.62	95.2
# 40	28.29	79.6
# 60	64.90	53.3
# 100	107.16	22.9
# 140	113.89	18.0
# 200	116.48	16.1

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL = 0.2** (**% coarse =** **% fine = 0.2**)
% SAND = 83.7 (**% coarse = 0.5** **% medium = 19.7** **% fine = 63.5**)
% FINES = 16.1

D85= 0.50 D60= 0.28 D50= 0.24
D30= 0.17

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.3	19.2	66.7	13.8	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G14	G14-1	231.86'	N/A		Red Silty sand	7.8		

Client GPC c/o SNOC	MACTEC ENGINEERING AND CONSULTING, INC.	Tested by: SW Reviewed by: MC
Project Vogtle Units 3 & 4 Test Pad Project		
Project No. 6141-06-0286.54		

GRAIN SIZE DISTRIBUTION TEST DATA

Client: GPC c/o SNOC
Project: Vogtle Units 3 & 4 Test Pad Project
Project Number: 6141-06-0286.54

Sample Data

Source: Test Pad Backfill G14
Sample No.: G14-1
Elev. or Depth: 231.86' **Sample Length(in./cm.):** N/A
Location: G14-1
Description: Red Silty sand
Date: N/A **Natural Moisture:** 7.8
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: SW Reviewed by: MC

Mechanical Analysis Data

Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.44	99.7
# 20	5.68	95.8
# 40	26.44	80.5
# 60	61.65	54.6
# 100	105.99	21.9
# 140	113.71	16.2
# 200	117.02	13.8

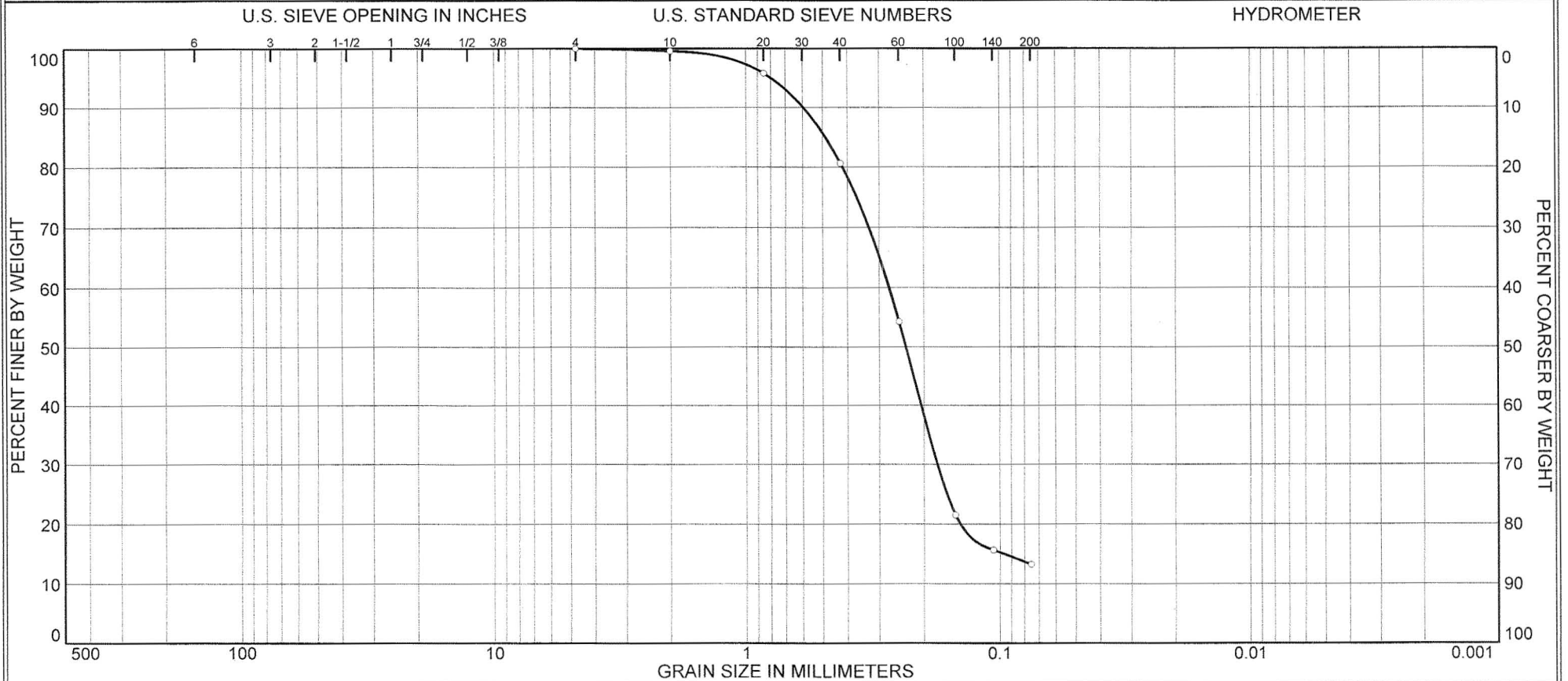
Initial
Dry sample and tare= 200.08
Tare = 64.34
Dry sample weight = 135.74
Tare for cumulative weight retained= .00

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL =
% SAND = 86.2 (% coarse = 0.3 % medium = 19.2 % fine = 66.7)
% FINES = 13.8

D₈₅= 0.49 D₆₀= 0.27 D₅₀= 0.23
D₃₀= 0.18 D₁₅= 0.09

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.4	19.0	67.4	13.2	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G14	G14-2	231.75'	N/A		Red Silty sand	N/A		

Client GPC c/o SNOG	MACTEC ENGINEERING AND CONSULTING, INC.	Tested by: MD/SW Reviewed by: MC
Project Vogtle Units 3 & 4 Test Pad Project		
Project No. 6141-06-0286.54		

GRAIN SIZE DISTRIBUTION TEST DATA

Client: GPC c/o SNOC
Project: Vogtle Units 3 & 4 Test Pad Project
Project Number: 6141-06-0286.54

Sample Data

Source: Test Pad Backfill G14
Sample No.: G14-2
Elev. or Depth: 231.75' **Sample Length(in./cm.):** N/A
Location: G14-2
Description: Red Silty sand
Date: N/A **Natural Moisture:** N/A
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: MD/SW Reviewed by: MC

Mechanical Analysis Data

Initial
Dry sample and tare= 200.48
Tare = 64.19
Dry sample weight = 136.29
Tare for cumulative weight retained= .00

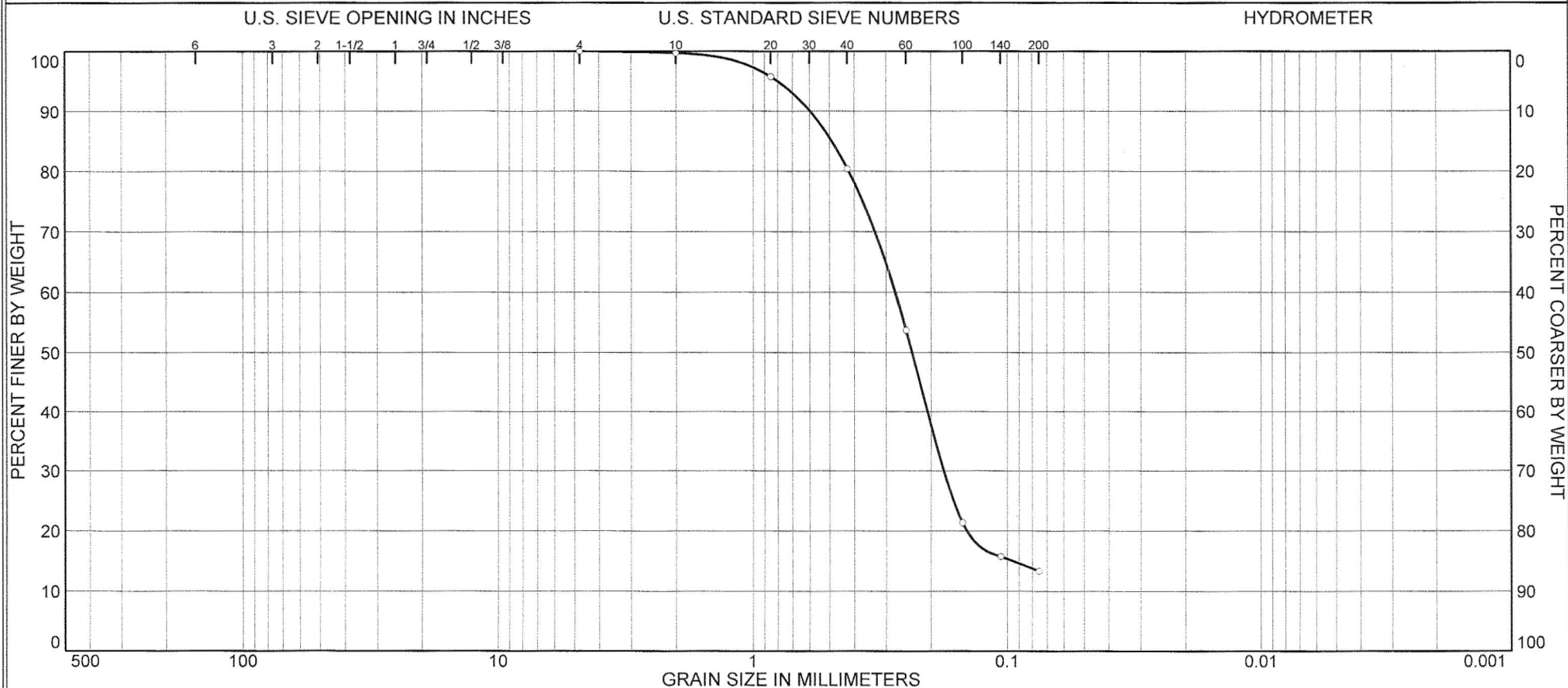
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.59	99.6
# 20	5.68	95.8
# 40	26.42	80.6
# 60	62.25	54.3
# 100	106.97	21.5
# 140	114.97	15.6
# 200	118.25	13.2

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 86.8 (% coarse = 0.4 % medium = 19.0 % fine = 67.4)
% FINES = 13.2

D85= 0.49 D60= 0.27 D50= 0.23
D30= 0.18 D15= 0.10

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.3	19.3	67.1	13.3	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G14	G14-3	231.98'	N/A		Red Silty sand	6.9		

Client GPC c/o SNOC	MACTEC ENGINEERING AND CONSULTING, INC.	Tested by: SW Reviewed by: MC
Project Vogtle Units 3 & 4 Test Pad Project		
Project No. 6141-06-0286.54		

GRAIN SIZE DISTRIBUTION TEST DATA

Client: GPC c/o SNOC
Project: Vogtle Units 3 & 4 Test Pad Project
Project Number: 6141-06-0286.54

Sample Data

Source: Test Pad Backfill G14
Sample No.: G14-3
Elev. or Depth: 231.98' **Sample Length(in./cm.):** N/A
Location: G14-3
Description: Red Silty sand
Date: N/A **Natural Moisture:** 6.9
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: SW Reviewed by: MC

Mechanical Analysis Data

Initial
Dry sample and tare= 202.58
Tare = 70.17
Dry sample weight = 132.41
Tare for cumulative weight retained= .00

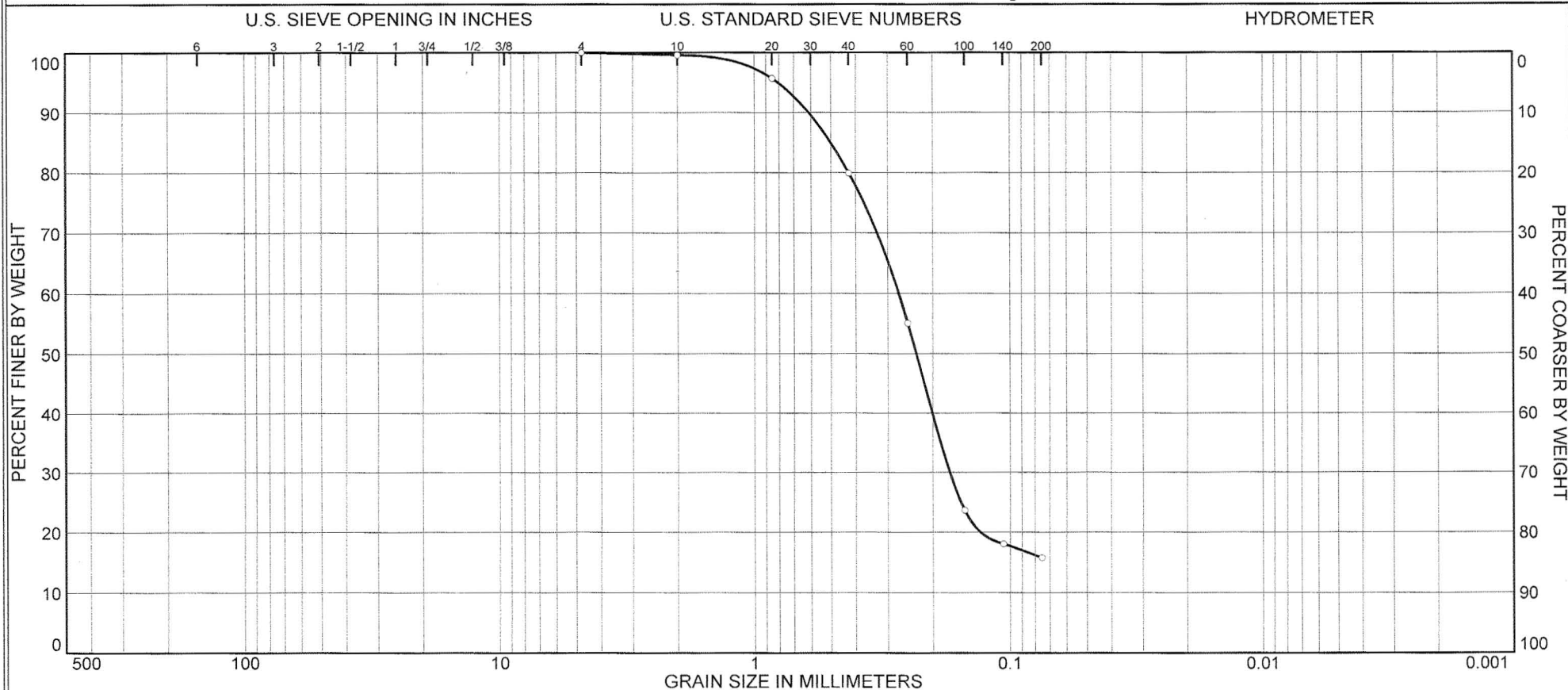
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.46	99.7
# 20	5.53	95.8
# 40	25.92	80.4
# 60	61.36	53.7
# 100	104.20	21.3
# 140	111.59	15.7
# 200	114.81	13.3

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 86.7 (% coarse = 0.3 % medium = 19.3 % fine = 67.1)
% FINES = 13.3

D85= 0.49 D60= 0.28 D50= 0.24
D30= 0.18 D15= 0.10

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.4	19.7	64.2	15.7	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G14	G14-4	231.87'	N/A	SM	Red Silty sand	8.7	NV	NP

Client GPC c/o SNOG		MACTEC ENGINEERING AND CONSULTING, INC.	○ Tested by: SW Reviewed by: MC
Project Vogtle Units 3 & 4 Test Pad Project			
Project No. 6141-06-0286.54			

GRAIN SIZE DISTRIBUTION TEST DATA

Client: GPC c/o SNOC
Project: Vogtle Units 3 & 4 Test Pad Project
Project Number: 6141-06-0286.54

Sample Data

Source: Test Pad Backfill G14
Sample No.: G14-4
Elev. or Depth: 231.87' **Sample Length(in./cm.):** N/A
Location: G14-4
Description: Red Silty sand
Date: N/A **Natural Moisture:** 8.7
Liquid Limit: NV **Plastic Limit:** NP **USCS Class.:** SM
Testing Remarks: Tested by: SW Reviewed by: MC

Mechanical Analysis Data

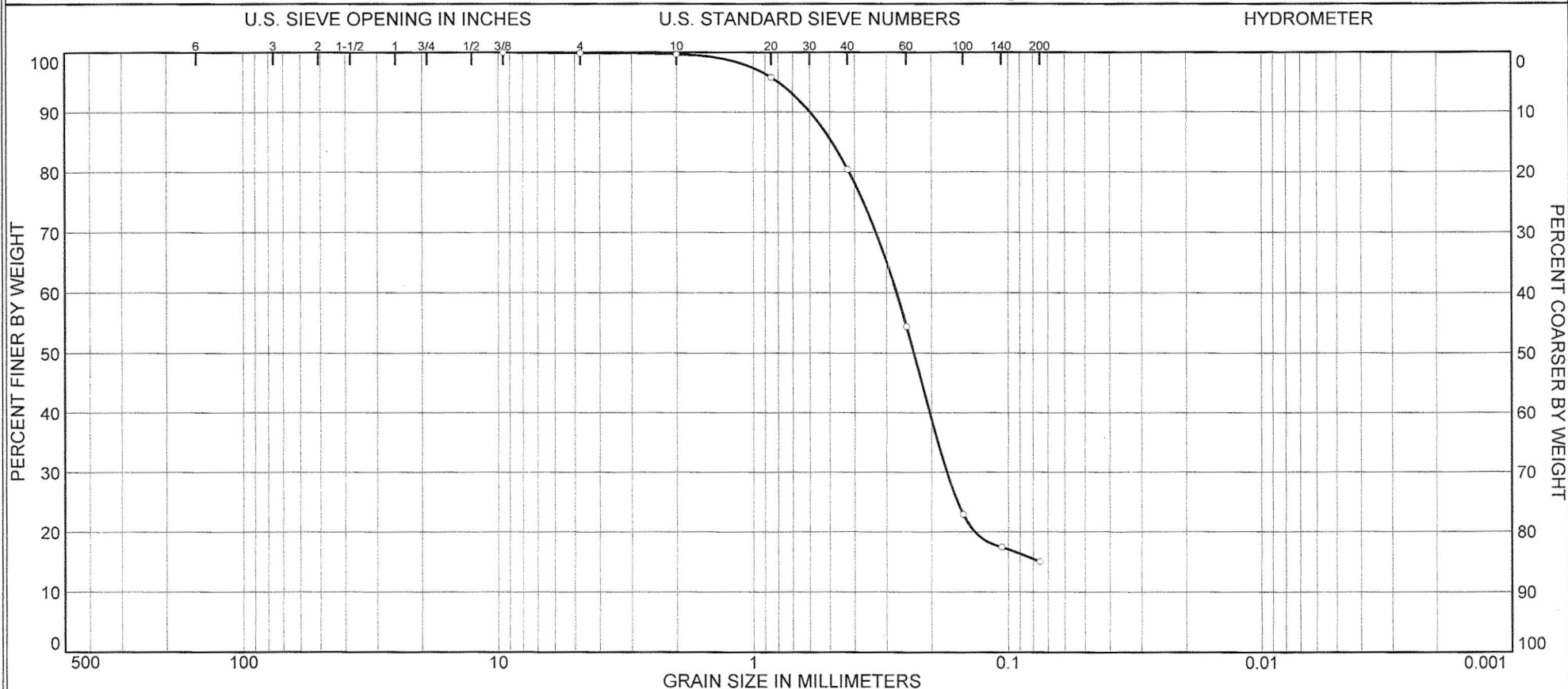
	Initial	
Dry sample and tare=	202.37	
Tare =	64.31	
Dry sample weight =	138.06	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.57	99.6
# 20	5.94	95.7
# 40	27.69	79.9
# 60	61.94	55.1
# 100	105.50	23.6
# 140	113.16	18.0
# 200	116.32	15.7

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 84.3 (**% coarse = 0.4** **% medium = 19.7** **% fine = 64.2**)
% FINES = 15.7

D85= 0.50 **D60= 0.27** **D50= 0.23**
D30= 0.17

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.1	0.2	19.3	65.4	15.0	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G15	G15-1	232.28'	N/A		Red Silty sand	9.3		

Client GPC c/o SNOC	MACTEC ENGINEERING AND CONSULTING, INC.	Tested by: MD/SW Reviewed by: MC
Project Vogtle Units 3 & 4 Test Pad Project		
Project No. 6141-06-0286.54		

GRAIN SIZE DISTRIBUTION TEST DATA

Client: GPC c/o SNOG
Project: Vogtle Units 3 & 4 Test Pad Project
Project Number: 6141-06-0286.54

Sample Data

Source: Test Pad Backfill G15
Sample No.: G15-1
Elev. or Depth: 232.28' **Sample Length(in./cm.):** N/A
Location: G15-1
Description: Red Silty sand
Date: N/A **Natural Moisture:** 9.3
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: MD/SW Reviewed by: MC

Mechanical Analysis Data

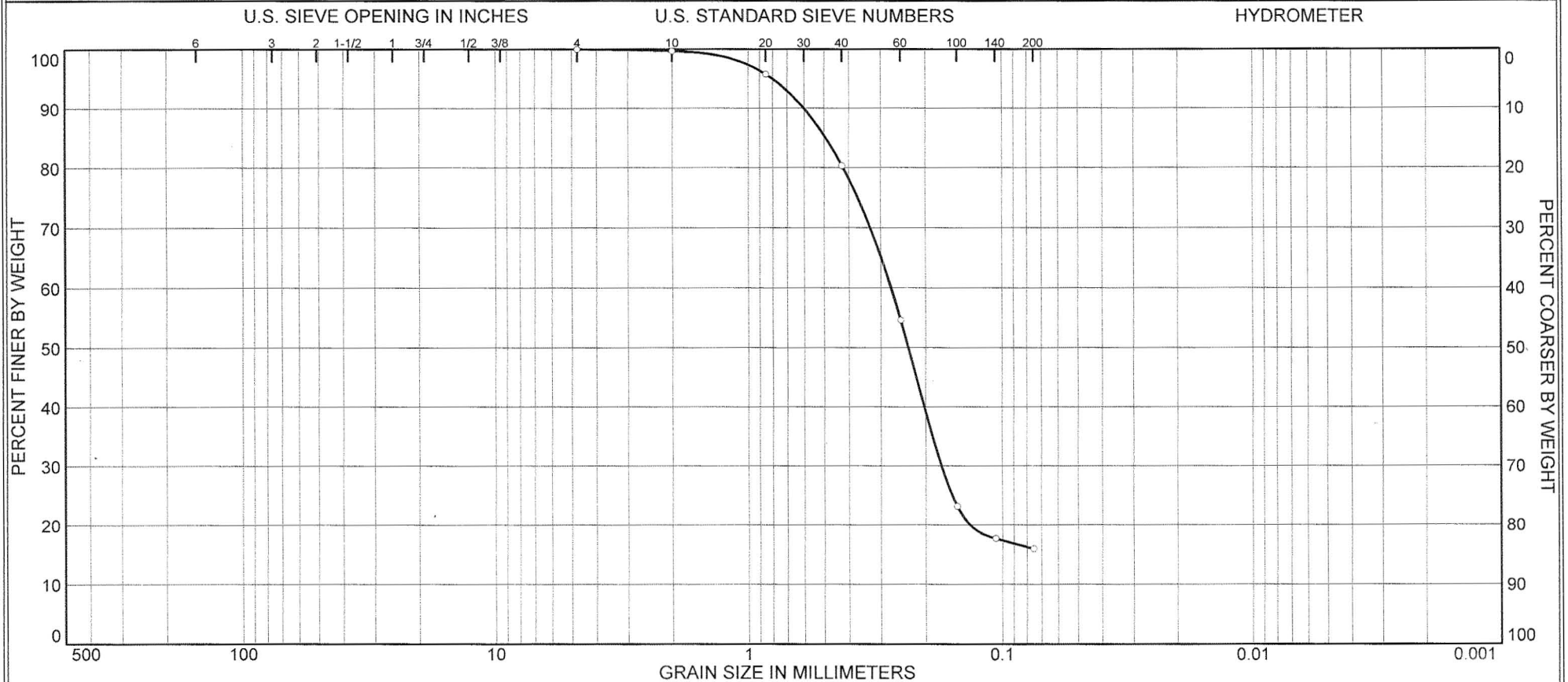
	Initial	
Dry sample and tare=	207.72	
Tare =	64.38	
Dry sample weight =	143.34	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.12	99.9
# 10	0.50	99.7
# 20	6.00	95.8
# 40	28.11	80.4
# 60	65.34	54.4
# 100	110.57	22.9
# 140	118.45	17.4
# 200	121.91	15.0

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL = 0.1** (**% coarse =** **% fine = 0.1**)
% SAND = 84.9 (**% coarse = 0.2** **% medium = 19.3** **% fine = 65.4**)
% FINES = 15.0

D₈₅ = 0.49 **D₆₀ = 0.27** **D₅₀ = 0.23**
D₃₀ = 0.17 **D₁₅ = 0.08**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.3	19.4	64.4	15.9	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G15	G15-2	232.28'	N/A	SM	Red Silty sand	9.5	NV	NP

Client GPC c/o SNOC

Project Vogtle Units 3 & 4 Test Pad Project

Project No. 6141-06-0286.54

**MACTEC ENGINEERING
AND
CONSULTING, INC.**

Tested by: MD/SW Reviewed by: MC

GRAIN SIZE DISTRIBUTION TEST DATA

Client: GPC c/o SNOG
Project: Vogtle Units 3 & 4 Test Pad Project
Project Number: 6141-06-0286.54

Sample Data

Source: Test Pad Backfill G15
Sample No.: G15-2
Elev. or Depth: 232.28' **Sample Length(in./cm.):** N/A
Location: G15-2
Description: Red Silty sand
Date: N/A **Natural Moisture:** 9.5
Liquid Limit: NV **Plastic Limit:** NP **USCS Class.:** SM
Testing Remarks: Tested by: MD/SW Reviewed by: MC

Mechanical Analysis Data

Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.42	99.7
# 20	5.77	95.8
# 40	27.29	80.3
# 60	62.86	54.6
# 100	106.54	23.1
# 140	114.21	17.6
# 200	116.56	15.9

Initial
Dry sample and tare= 202.74
Tare = 64.18
Dry sample weight = 138.56
Tare for cumulative weight retained= .00

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 84.1 (**% coarse = 0.3** **% medium = 19.4** **% fine = 64.4)**
% FINES = 15.9

D₈₅ = 0.49 **D₆₀ = 0.27** **D₅₀ = 0.23**
D₃₀ = 0.17
