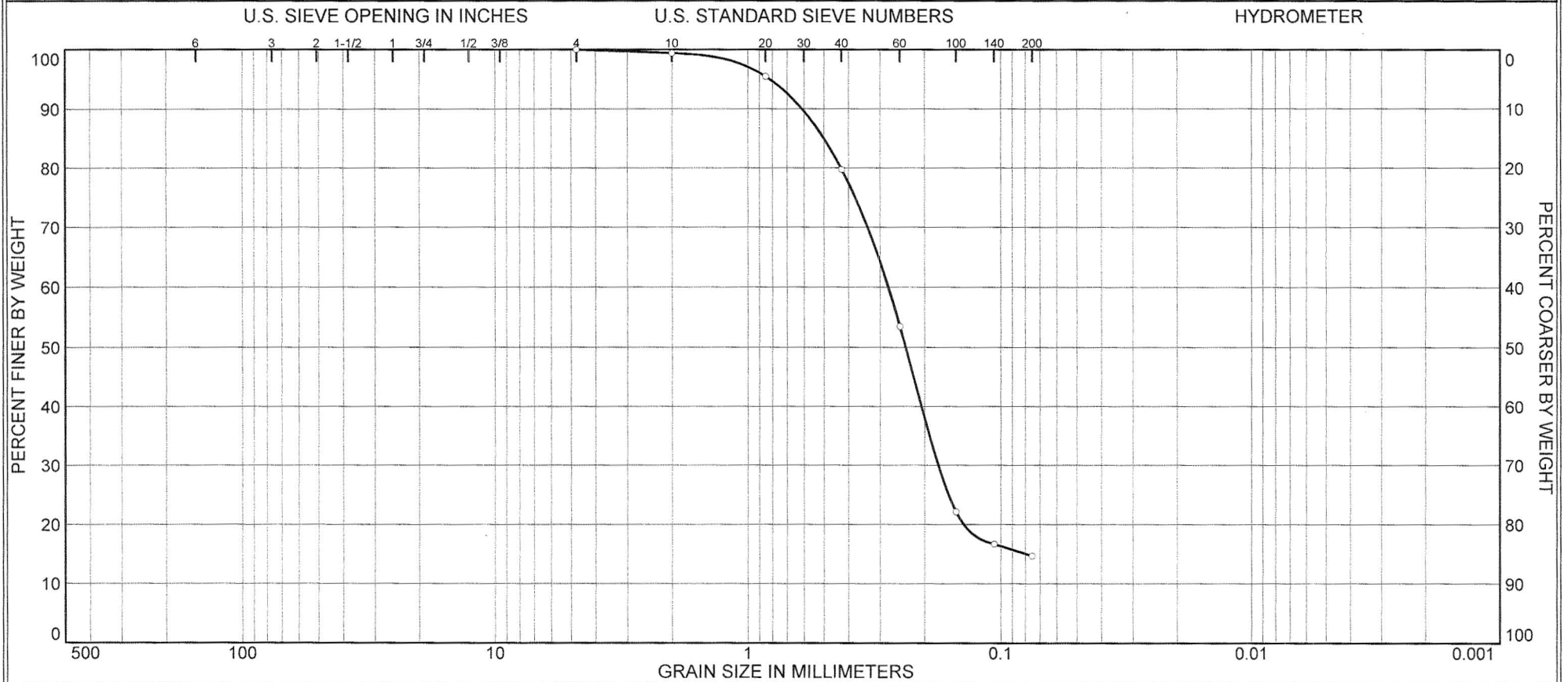


Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.6	19.7	65.1	14.6	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G15	G15-3	232.39'	N/A		Red Silty sand	7.9		

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 G15
Sample No.: G15-3
Elev. or Depth: 232.39' **Sample Length(in./cm.):** N/A
Location: G15-3
Description: Red Silty sand
Date: N/A **Natural Moisture:** 7.9
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: MD/SW Reviewed by: MC

Mechanical Analysis Data

Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.85	99.4
# 20	6.12	95.5
# 40	27.87	79.7
# 60	63.70	53.5
# 100	106.88	22.1
# 140	114.33	16.6
# 200	117.07	14.6

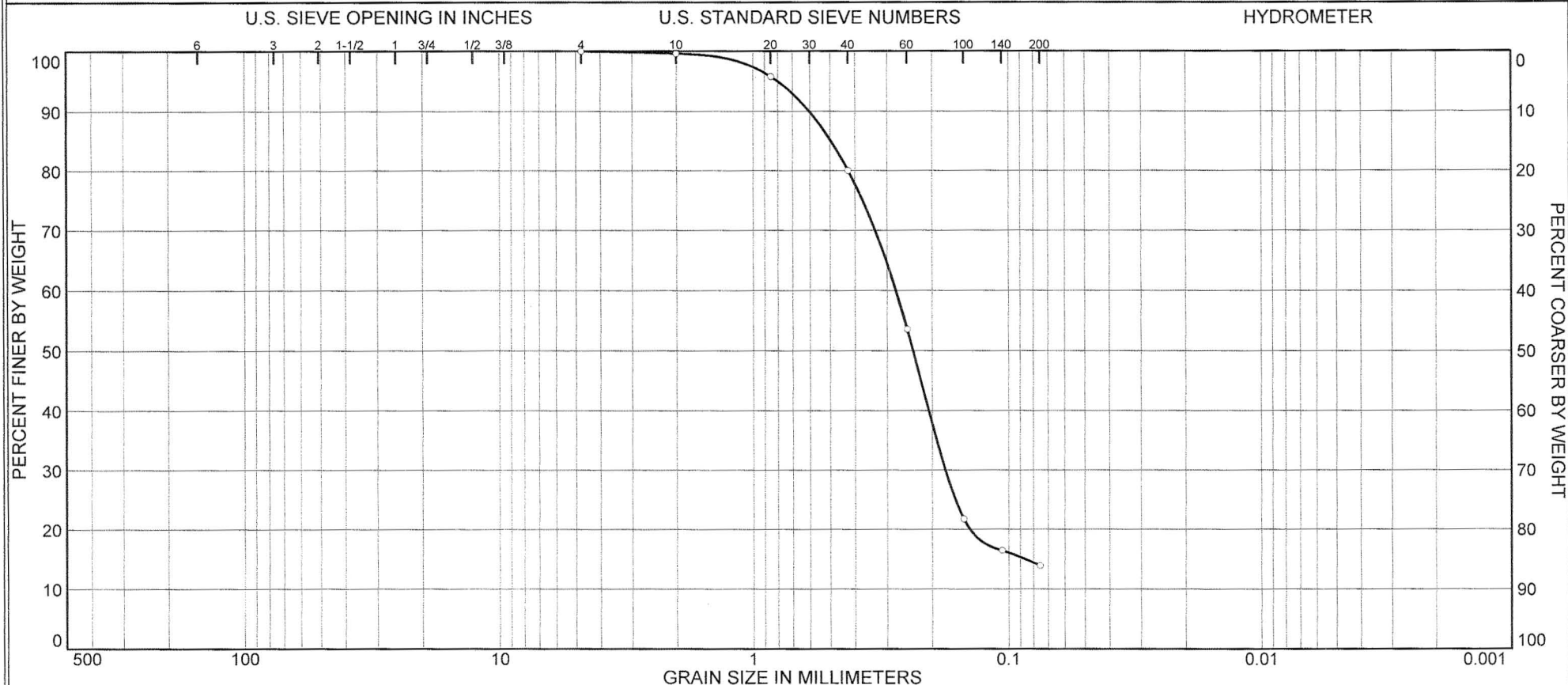
Initial
Dry sample and tare= 207.32
Tare = 70.19
Dry sample weight = 137.13
Tare for cumulative weight retained= .00

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 85.4 (**% coarse = 0.6** **% medium = 19.7** **% fine = 65.1)**
% FINES = 14.6

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	0.0	0.4	19.6	66.1	13.9	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G15	G15-4	232.25'	N/A		Red Silty sand	9.0		

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 G15
Sample No.: G15-4
Elev. or Depth: 232.25' **Sample Length(in./cm.):** N/A
Location: G15-4
Description: Red Silty sand
Date: N/A **Natural Moisture:** 9.0
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: MD/SW Reviewed by: MC

Mechanical Analysis Data

Initial
Dry sample and tare= 207.32
Tare = 64.33
Dry sample weight = 142.99
Tare for cumulative weight retained= .00

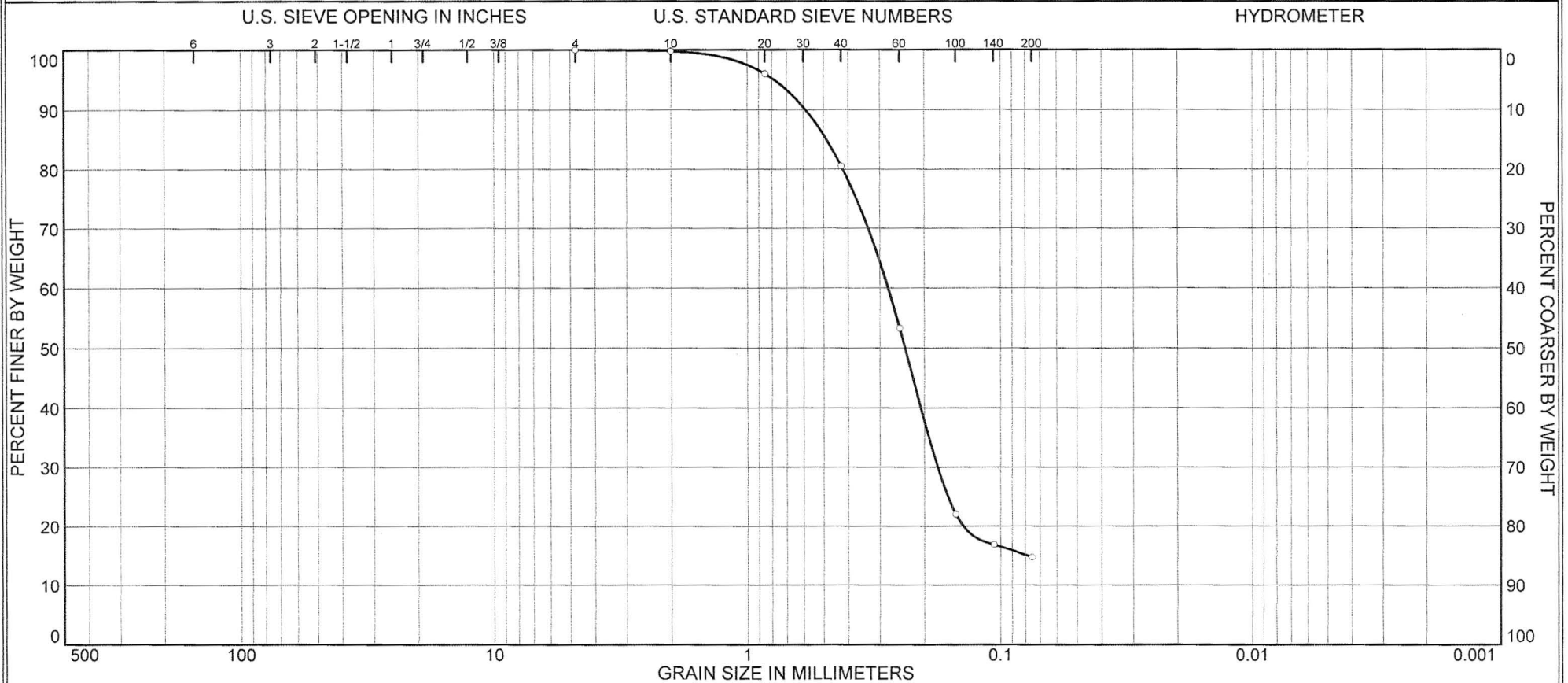
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.55	99.6
# 20	5.99	95.8
# 40	28.58	80.0
# 60	66.39	53.6
# 100	111.97	21.7
# 140	119.58	16.4
# 200	123.17	13.9

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 86.1 (**% coarse = 0.4** **% medium = 19.6** **% fine = 66.1)**
% FINES = 13.9

D85= 0.50 **D60= 0.28** **D50= 0.24**
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	0.2	19.3	65.8	14.7	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G16	G16-1	232.88'	N/A		Red Silty sand	7.0		

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 G16
Sample No.: G16-1
Elev. or Depth: 232.88' **Sample Length(in./cm.):** N/A
Location: G16-1
Description: Red Silty sand
Date: N/A **Natural Moisture:** 7.0
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: MD/SW Reviewed by: MC

Mechanical Analysis Data

Initial
Dry sample and tare= 202.75
Tare = 64.34
Dry sample weight = 138.41
Tare for cumulative weight retained= .00

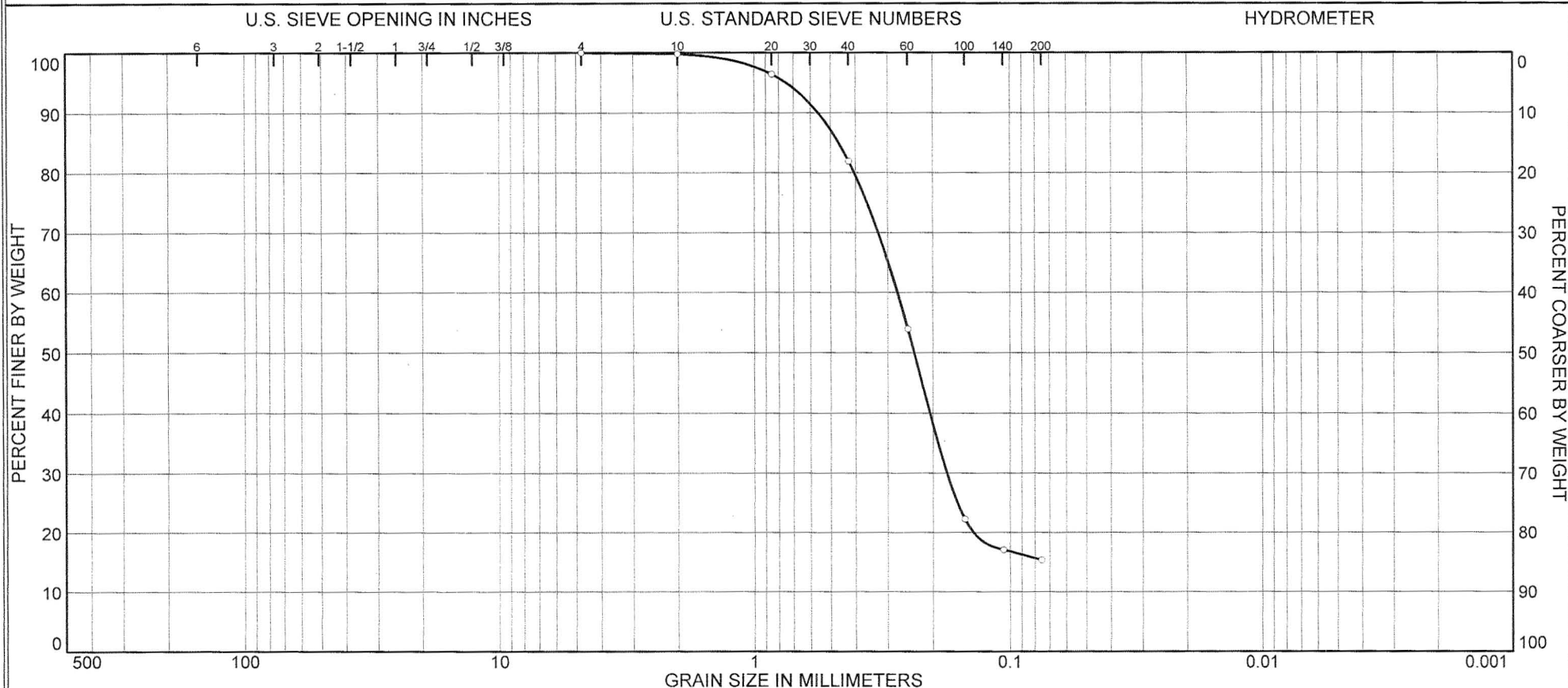
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.23	99.8
# 20	5.55	96.0
# 40	26.96	80.5
# 60	64.59	53.3
# 100	107.98	22.0
# 140	115.22	16.8
# 200	118.02	14.7

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 85.3 (% coarse = 0.2 % medium = 19.3 % fine = 65.8)
% FINES = 14.7

D₈₅= 0.49 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	0.0	0.2	17.9	66.6	15.3	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G16	G16-2	232.72'	N/A		Red Silty sand	7.2		

Client GPC c/o SNOO	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 G16
Sample No.: G16-2
Elev. or Depth: 232.72' **Sample Length(in./cm.):** N/A
Location: G16-2
Description: Red Silty sand
Date: N/A **Natural Moisture:** 7.2
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: MD/SW Reviewed by: MC

Mechanical Analysis Data

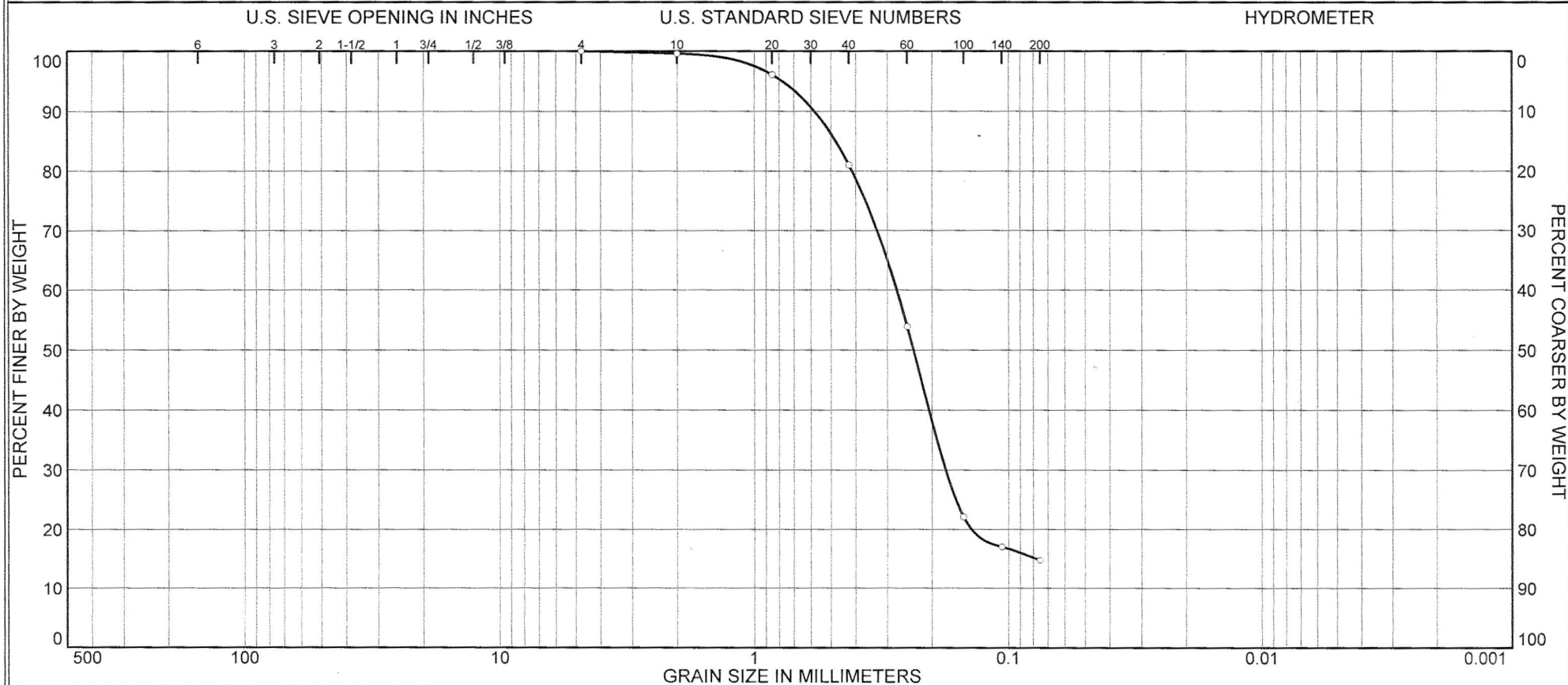
	Initial	
Dry sample and tare=	201.15	
Tare =	64.15	
Dry sample weight =	137.00	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.25	99.8
# 20	4.97	96.4
# 40	24.86	81.9
# 60	63.11	53.9
# 100	106.59	22.2
# 140	113.73	17.0
# 200	116.08	15.3

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 84.7 (**% coarse = 0.2** **% medium = 17.9** **% fine = 66.6**)
% FINES = 15.3

D₈₅ = 0.46 **D₆₀ = 0.27** **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	0.4	18.6	66.3	14.7	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
○ Test Pad Backfill G16	G16-3	232.79'	N/A		Red Silty sand	6.9		

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 G16
Sample No.: G16-3
Elev. or Depth: 232.79' **Sample Length(in./cm.):** N/A
Location: G16-3
Description: Red Silty sand
Date: N/A **Natural Moisture:** 6.9
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: MD/SW Reviewed by: MC

Mechanical Analysis Data

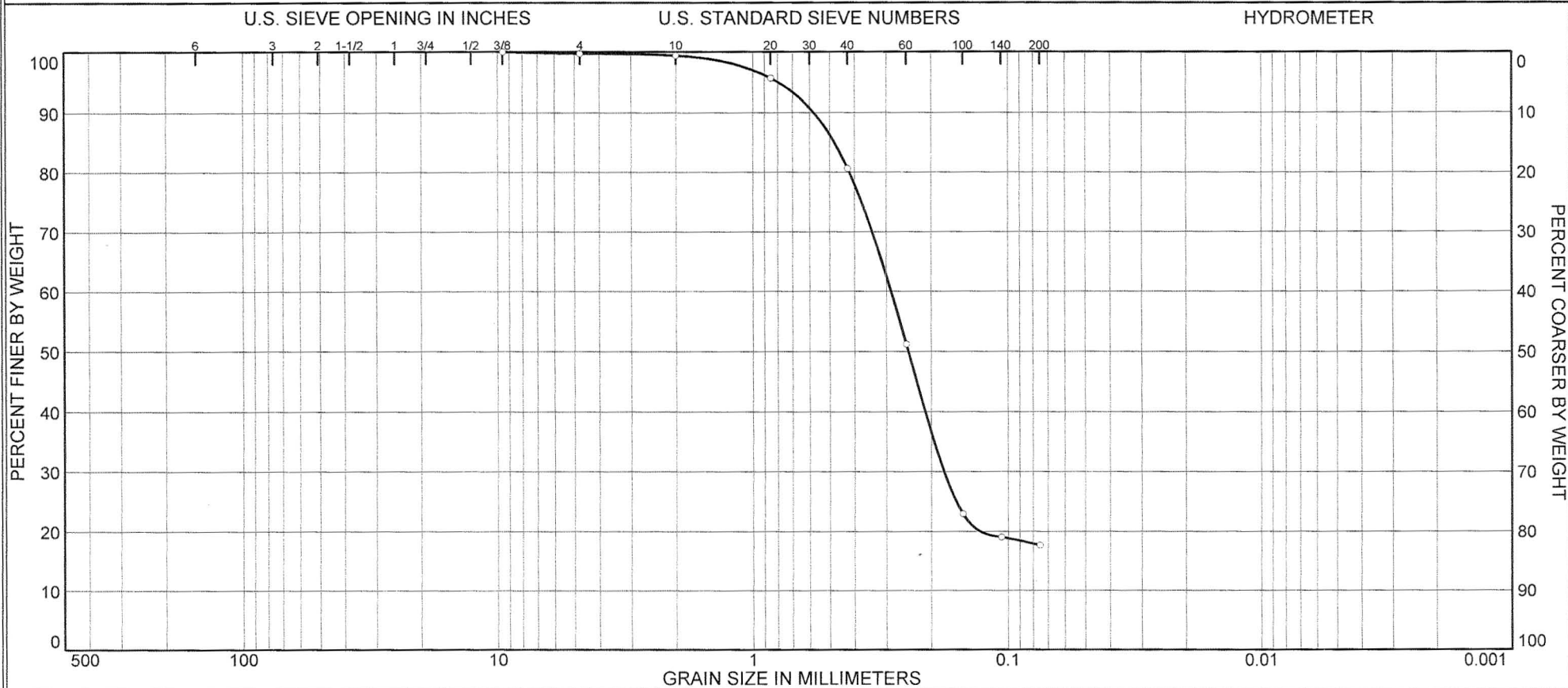
	Initial	
Dry sample and tare=	204.33	
Tare =	70.20	
Dry sample weight =	134.13	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.54	99.6
# 20	5.24	96.1
# 40	25.47	81.0
# 60	61.86	53.9
# 100	104.47	22.1
# 140	111.38	17.0
# 200	114.37	14.7

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 85.3 (**% coarse = 0.4** **% medium = 18.6** **% fine = 66.3)**
% FINES = 14.7

D85= 0.48 D60= 0.27 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	0.3	0.3	18.8	63.0	17.6	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G16	G16-4	232.83'	N/A	SM	Red Silty sand	8.6	NV	NP

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 SNOC
Project: Vogtle Units 3 & 4 Test Pad Project
Project Number: 6141-06-0286.54

Sample Data

Source: Test Pad Backfill G16
Sample No.: G16-4
Elev. or Depth: 232.83' **Sample Length(in./cm.):** N/A
Location: G16-4
Description: Red Silty sand
Date: N/A **Natural Moisture:** 8.6
Liquid Limit: NV **Plastic Limit:** NP **USCS Class.:** SM
Testing Remarks: Tested by: MD/SW Reviewed by: MC

Mechanical Analysis Data

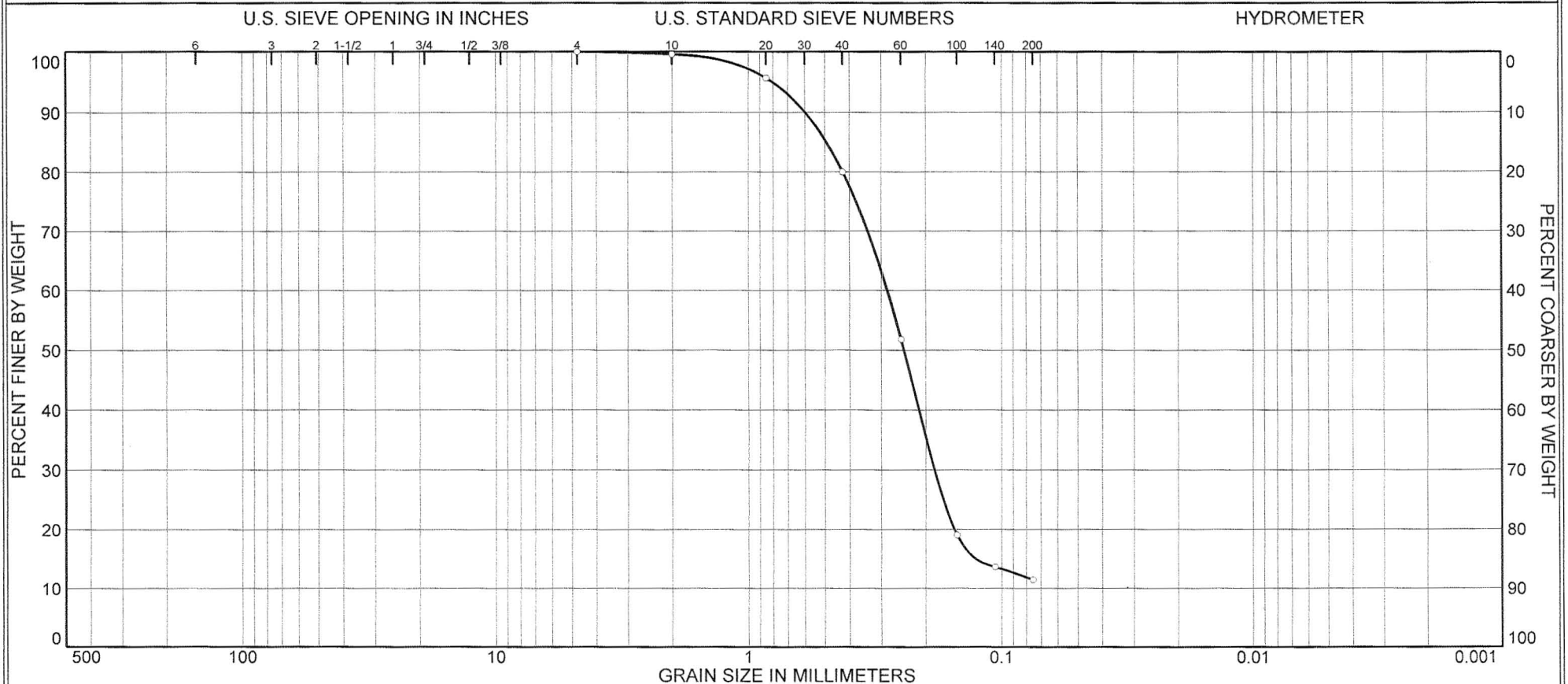
Sieve	Cumul. Wt. retained	Percent finer
	Initial	
Dry sample and tare=	201.46	
Tare =	64.32	
Dry sample weight =	137.14	
Tare for cumulative weight retained=	.00	
.375 inch	0.00	100.0
# 4	0.44	99.7
# 10	0.78	99.4
# 20	5.87	95.7
# 40	26.65	80.6
# 60	66.86	51.2
# 100	105.68	22.9
# 140	111.04	19.0
# 200	113.07	17.6

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL = 0.3** (**% coarse =** **% fine = 0.3**)
% SAND = 82.1 (**% coarse = 0.3** **% medium = 18.8** **% fine = 63.0**)
% FINES = 17.6

D85= 0.48 D60= 0.29 D50= 0.25
D30= 0.18

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.4	19.6	68.6	11.4	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G17	G17-1	233.42'	N/A		Red Poorly graded sand with silt	7.0		

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 G17
Sample No.: G17-1
Elev. or Depth: 233.42' **Sample Length(in./cm.):** N/A
Location: G17
Description: Red Poorly graded sand with silt
Date: N/A **Natural Moisture:** 7.0
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: MD/SW Reviewed by: MC

Mechanical Analysis Data

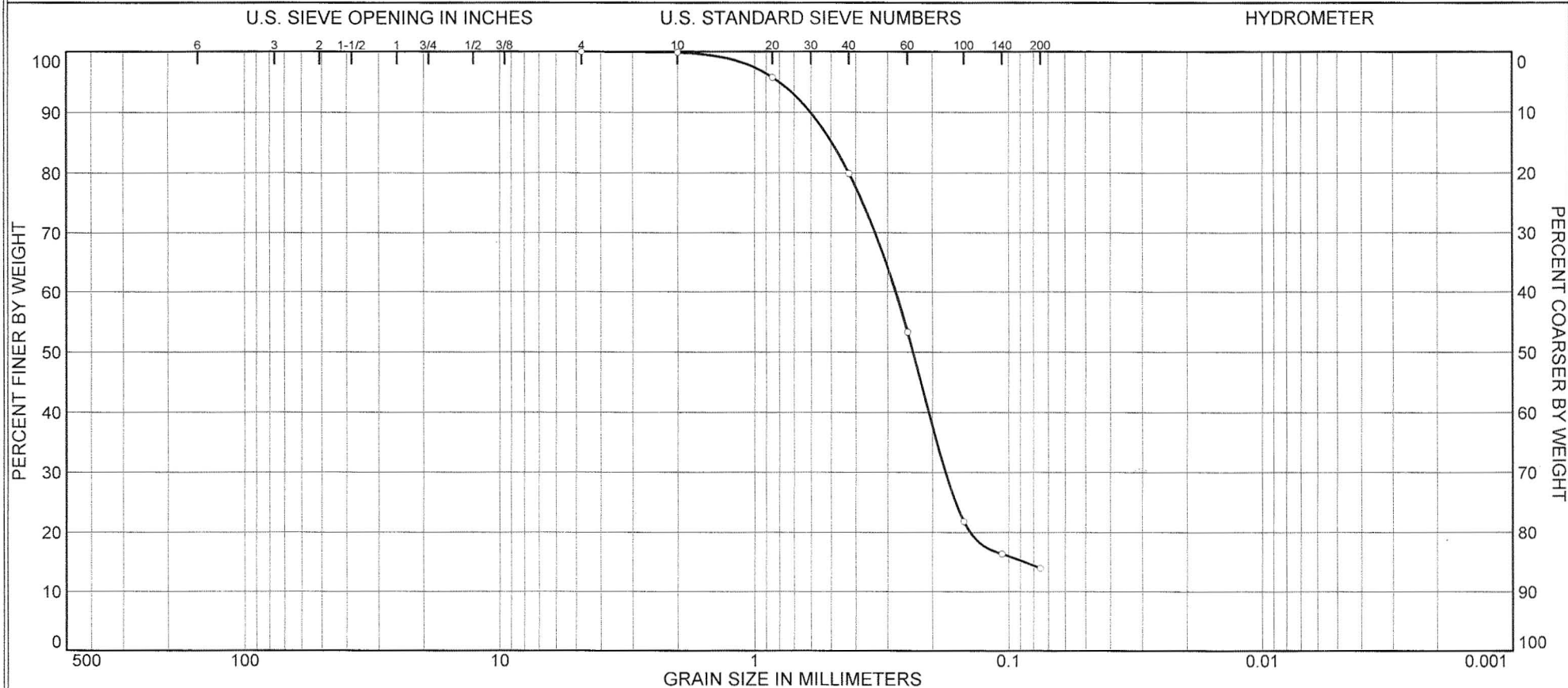
	Initial	
Dry sample and tare=	200.76	
Tare =	64.34	
Dry sample weight =	136.42	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.52	99.6
# 20	5.86	95.7
# 40	27.33	80.0
# 60	65.70	51.8
# 100	110.51	19.0
# 140	117.80	13.6
# 200	120.89	11.4

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 88.6 (**% coarse = 0.4** **% medium = 19.6** **% fine = 68.6**)
% FINES = 11.4

D85= 0.49 **D60= 0.28** **D50= 0.24**
D30= 0.18 **D15= 0.13**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.1	20.0	66.0	13.9	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G17	G17-2	233.36'	N/A		Red Silty sand	6.6		

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 G17
Sample No.: G17-2
Elev. or Depth: 233.36' **Sample Length(in./cm.):** N/A
Location: G17-2
Description: Red Silty sand
Date: N/A **Natural Moisture:** 6.6
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: MD/SW Reviewed by: MC

Mechanical Analysis Data

Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.14	99.9
# 20	5.83	95.8
# 40	28.08	79.9
# 60	65.35	53.3
# 100	109.52	21.8
# 140	117.20	16.3
# 200	120.54	13.9

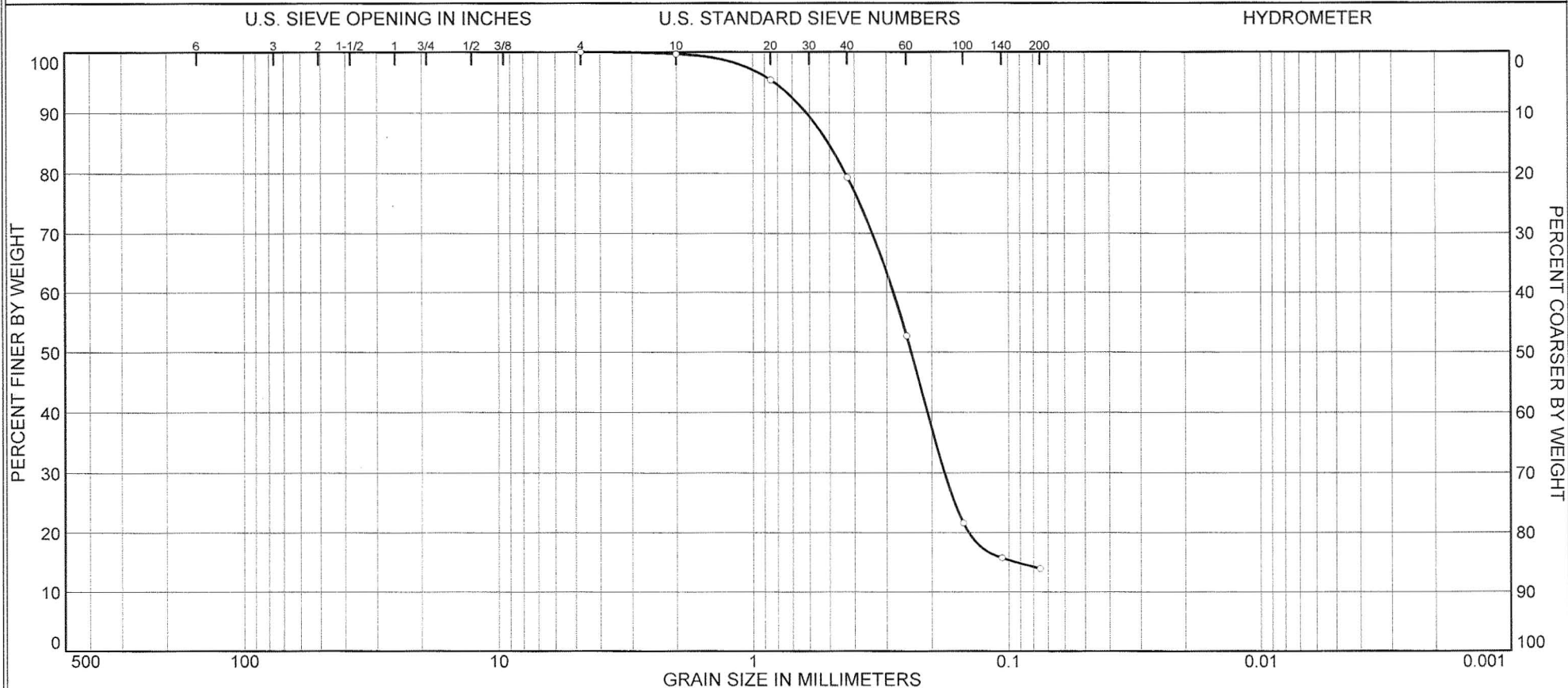
Initial
Dry sample and tare= 204.16
Tare = 64.16
Dry sample weight = 140.00
Tare for cumulative weight retained= .00

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL =
% SAND = 86.1 (% coarse = 0.1 % medium = 20.0 % fine = 66.0)
% FINES = 13.9

D85= 0.50 D60= 0.28 D50= 0.24
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	0.3	20.4	65.4	13.9	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G17	G17-3	233.49'	N/A		Red Silty sand	6.9		

Client GPC c/o SNOG	MACTEC ENGINEERING AND CONSULTING, INC.	Tested by: MD/SW Reviewed by: HJ
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 G17
Sample No.: G17-3
Elev. or Depth: 233.49' **Sample Length(in./cm.):** N/A
Location: G17-3
Description: Red Silty sand
Date: N/A **Natural Moisture:** 6.9
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: MD/SW Reviewed by: HJ

Mechanical Analysis Data

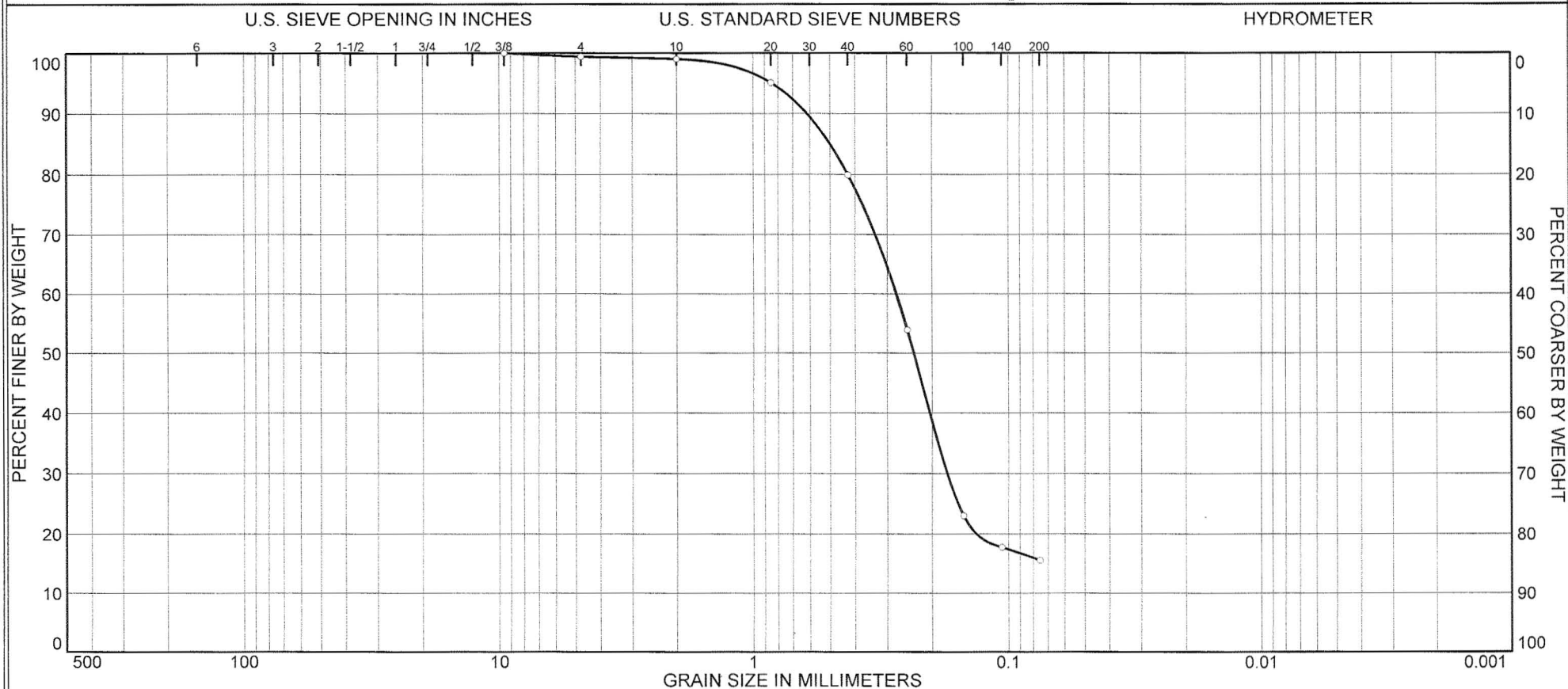
	Initial	
Dry sample and tare=	207.16	
Tare =	70.18	
Dry sample weight =	136.98	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.44	99.7
# 20	6.26	95.4
# 40	28.32	79.3
# 60	64.78	52.7
# 100	107.42	21.6
# 140	115.50	15.7
# 200	117.88	13.9

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 86.1 (**% coarse = 0.3** **% medium = 20.4** **% fine = 65.4**)
% FINES = 13.9

D85= 0.51 **D60= 0.28** **D50= 0.24**
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	0.6	0.4	19.1	64.4	15.5	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G17	G17-4	233.42'	N/A	SM	Red Silty sand	7.5	NV	NP

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 G17
Sample No.: G17-4
Elev. or Depth: 233.42' **Sample Length(in./cm.):** N/A
Location: G17-4
Description: Red Silty sand
Date: N/A **Natural Moisture:** 7.5
Liquid Limit: NV **Plastic Limit:** NP **USCS Class.:** SM
Testing Remarks: Tested by: MD/SW Reviewed by: MC

Mechanical Analysis Data

Initial
Dry sample and tare= 204.41
Tare = 64.34
Dry sample weight = 140.07
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.79	99.4
# 10	1.40	99.0
# 20	6.92	95.1
# 40	28.20	79.9
# 60	64.57	53.9
# 100	107.84	23.0
# 140	115.24	17.7
# 200	118.30	15.5

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL = 0.6** (**% coarse =** **% fine = 0.6**)
% SAND = 83.9 (**% coarse = 0.4** **% medium = 19.1** **% fine = 64.4**)
% FINES = 15.5

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