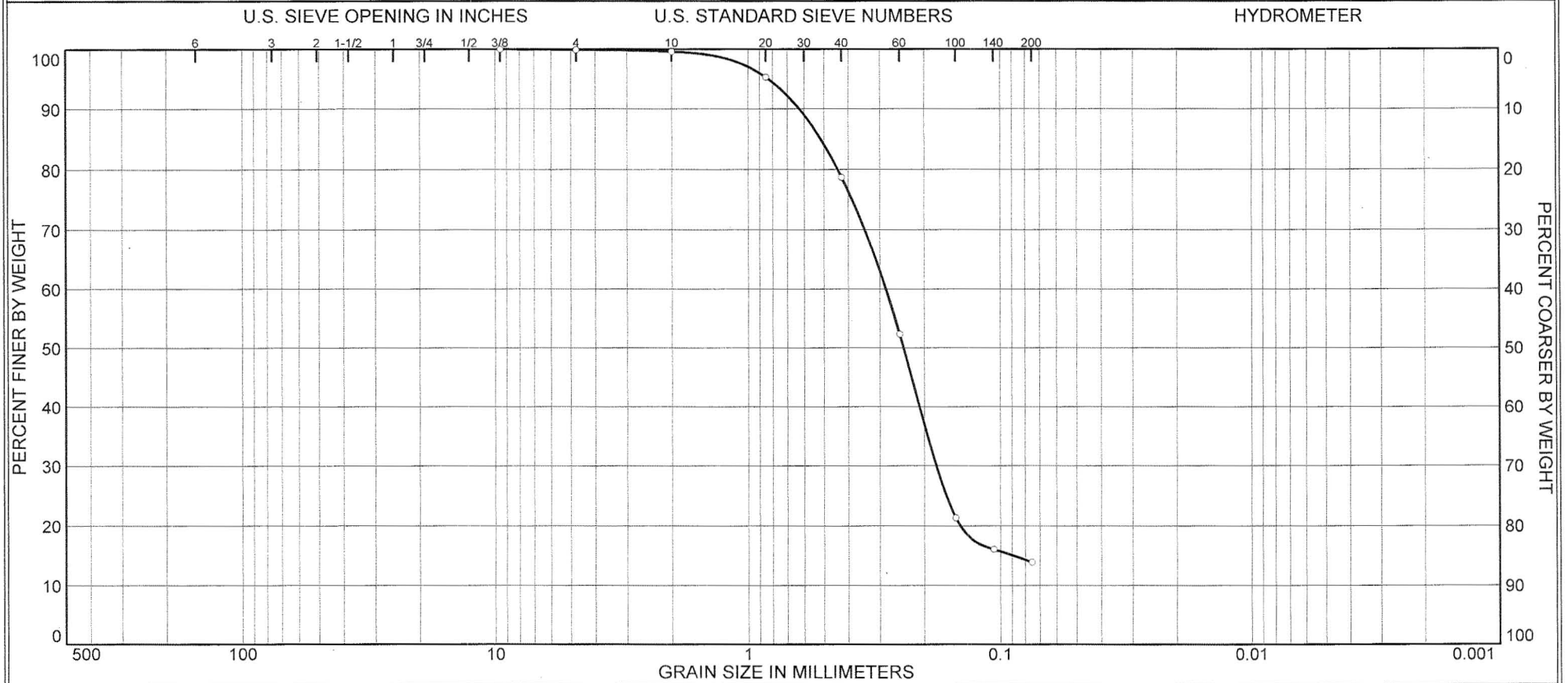


Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.1	0.3	20.9	64.8	13.9	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G6	G6-1	228.04'	N/A		Red Silty sand	7.7		

Client GPC c/o SNOG	MACTEC ENGINEERING AND CONSULTING, INC.	Tested by: SW/MD 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 G6
Sample No.: G6-1
Elev. or Depth: 228.04' **Sample Length(in./cm.):** N/A
Location: G6-1
Description: Red Silty sand
Date: N/A **Natural Moisture:** 7.7
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: SW/MD **Reviewed by:** MC

Mechanical Analysis Data

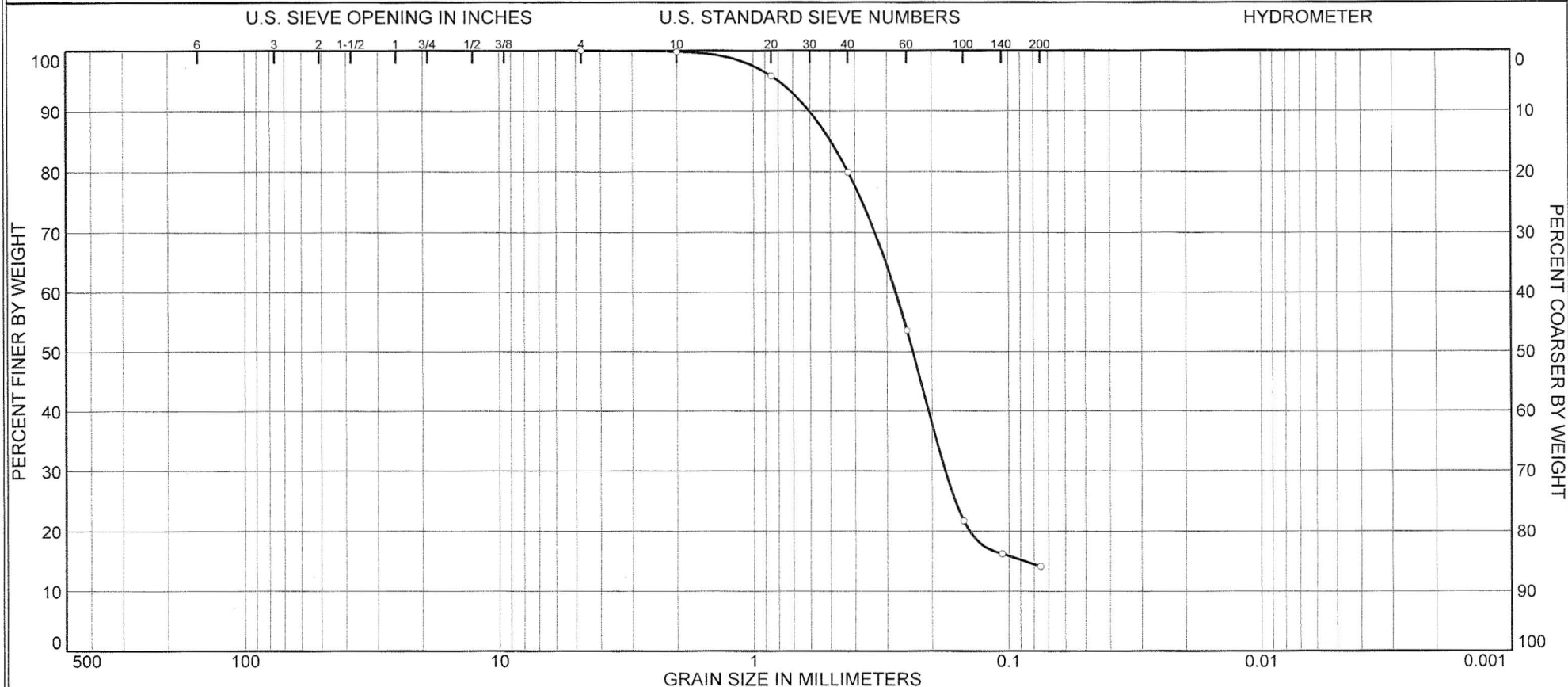
	Initial	
Dry sample and tare=	198.93	
Tare =	64.39	
Dry sample weight =	134.54	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.19	99.9
# 10	0.54	99.6
# 20	6.31	95.3
# 40	28.71	78.7
# 60	64.21	52.3
# 100	105.82	21.3
# 140	113.06	16.0
# 200	115.89	13.9

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL = 0.1** (**% coarse =** **% fine = 0.1**)
% SAND = 86.0 (**% coarse = 0.3** **% medium = 20.9** **% fine = 64.8**)
% 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	0.0	0.2	19.9	65.8	14.1	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G6	G6-2	228.08'	N/A		Red Silty sand	7.4		

Client GPC c/o SNOG	MACTEC ENGINEERING AND CONSULTING, INC.	Tested by: SW/MD 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 G6
Sample No.: G6-2
Elev. or Depth: 228.08' **Sample Length(in./cm.):** N/A
Location: G6-2
Description: Red Silty sand
Date: N/A **Natural Moisture:** 7.4
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: SW/MD Reviewed by: MC

Mechanical Analysis Data

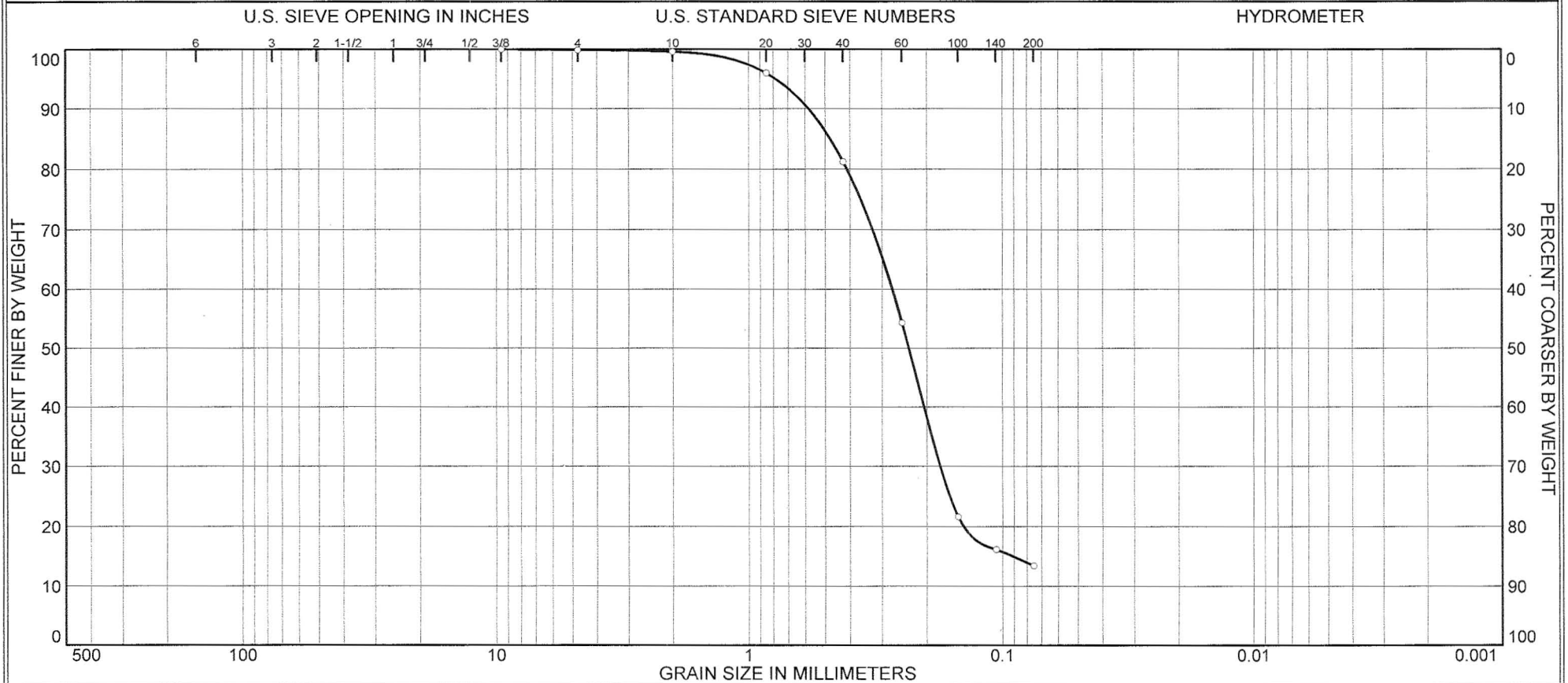
	Initial	
Dry sample and tare=	201.05	
Tare =	64.20	
Dry sample weight =	136.85	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.31	99.8
# 20	5.69	95.8
# 40	27.47	79.9
# 60	63.51	53.6
# 100	107.17	21.7
# 140	114.67	16.2
# 200	117.56	14.1

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 85.9 (**% coarse = 0.2** **% medium = 19.9** **% fine = 65.8**)
% FINES = 14.1

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	0.1	0.3	18.4	67.8	13.4	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G6	G6-3	228.12'	N/A		Red Silty sand	7.1		

Client GPC c/o SNOG	MACTEC ENGINEERING AND CONSULTING, INC.	Tested by: SW/MD 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 G6
Sample No.: G6-3
Elev. or Depth: 228.12' **Sample Length(in./cm.):** N/A
Location: G6-3
Description: Red Silty sand
Date: N/A **Natural Moisture:** 7.1
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: SW/MD Reviewed by: MC

Mechanical Analysis Data

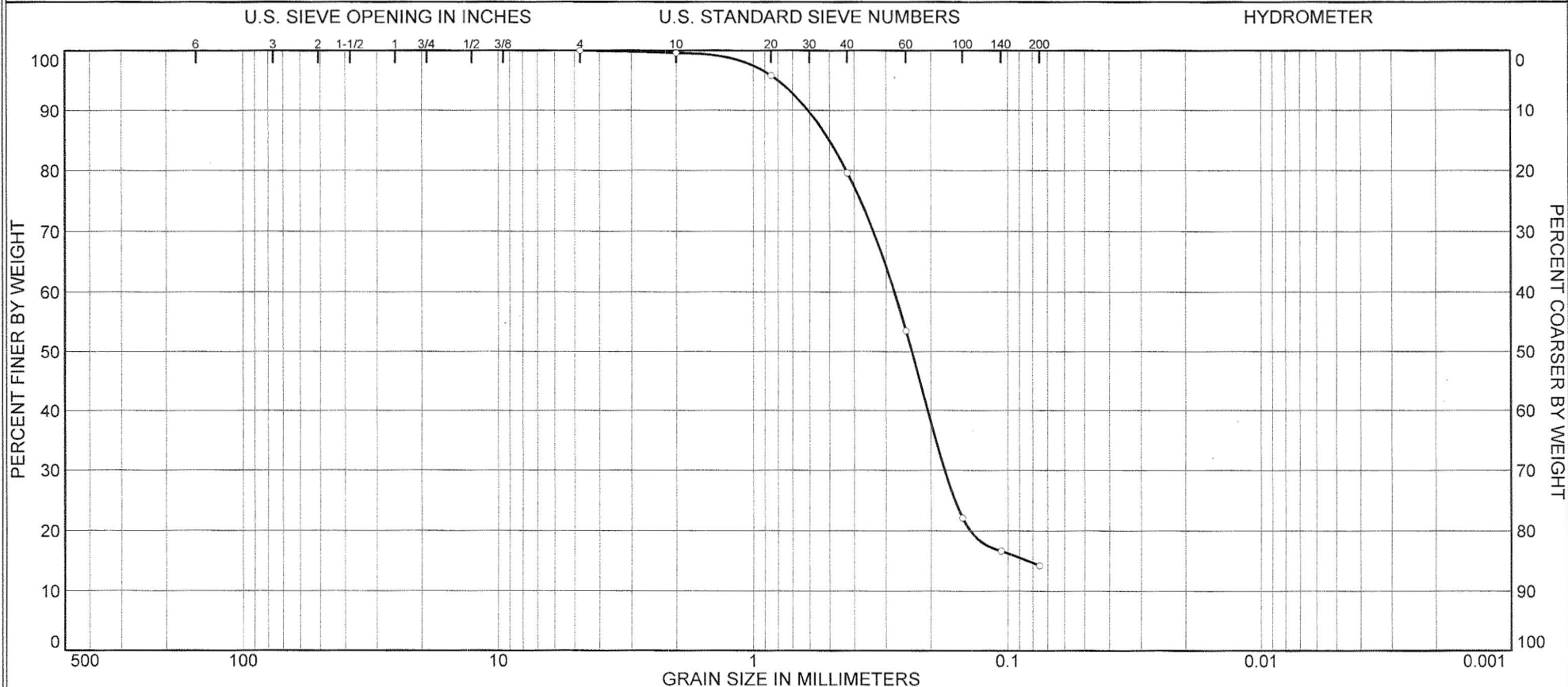
Sieve	Cumul. Wt. retained	Percent finer
	Initial	
Dry sample and tare=	209.60	
Tare =	70.20	
Dry sample weight =	139.40	
Tare for cumulative weight retained=	.00	
.375 inch	0.00	100.0
# 4	0.17	99.9
# 10	0.50	99.6
# 20	5.57	96.0
# 40	26.26	81.2
# 60	63.70	54.3
# 100	109.29	21.6
# 140	117.01	16.1
# 200	120.69	13.4

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL = 0.1 (% coarse = % fine = 0.1)
% SAND = 86.5 (% coarse = 0.3 % medium = 18.4 % fine = 67.8)
% FINES = 13.4

D85= 0.48 D60= 0.27 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	0.4	20.0	65.4	14.2	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G6	G6-4	228.09'	N/A	SM	Red Silty sand	6.9	NV	NP

Client GPC c/o SNOG	MACTEC ENGINEERING AND CONSULTING, INC.	Tested by: SW/MD 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 G6
Sample No.: G6-4
Elev. or Depth: 228.09' **Sample Length(in./cm.):** N/A
Location: G6-4
Description: Red Silty sand
Date: N/A **Natural Moisture:** 6.9
Liquid Limit: NV **Plastic Limit:** NP **USCS Class.:** SM
Testing Remarks: Tested by: SW/MD Reviewed by: MC

Mechanical Analysis Data

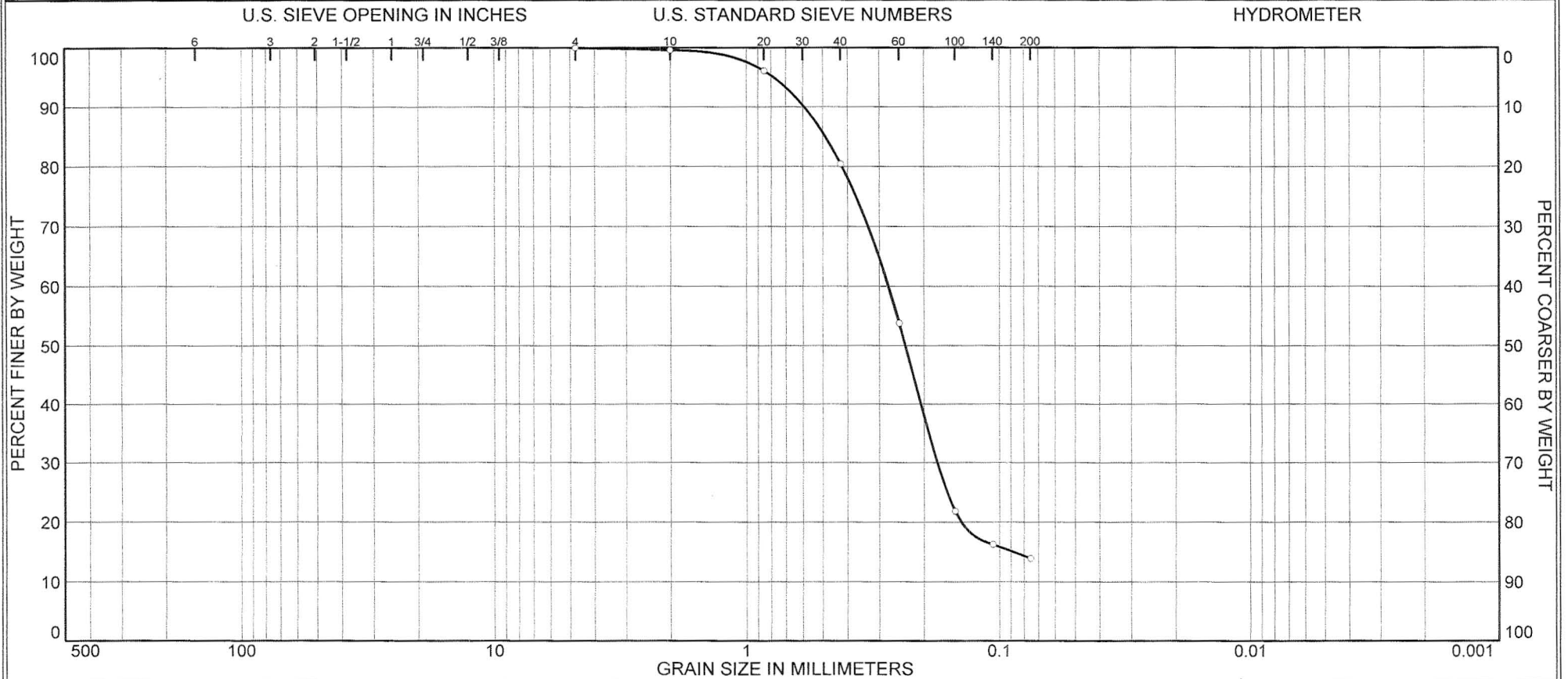
Sieve	Cumul. Wt. retained	Percent finer
Initial		
Dry sample and tare=	200.46	
Tare =	64.32	
Dry sample weight =	136.14	
Tare for cumulative weight retained= .00		
# 4	0.00	100.0
# 10	0.56	99.6
# 20	5.68	95.8
# 40	27.82	79.6
# 60	63.28	53.5
# 100	106.10	22.1
# 140	113.53	16.6
# 200	116.87	14.2

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 85.8 (**% coarse = 0.4** **% medium = 20.0** **% fine = 65.4**)
% FINES = 14.2

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	19.2	66.5	13.9	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G7	G7-1	228.41'	N/A		Red Silty sand	6.1		

Client GPC c/o SNOC		MACTEC ENGINEERING AND CONSULTING, INC.	○ Tested by: SW/MD 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 G7
Sample No.: G7-1
Elev. or Depth: 228.41' **Sample Length(in./cm.):** N/A
Location: G7-1
Description: Red Silty sand
Date: N/A **Natural Moisture:** 6.1
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: SW/MD Reviewed by: MC

Mechanical Analysis Data

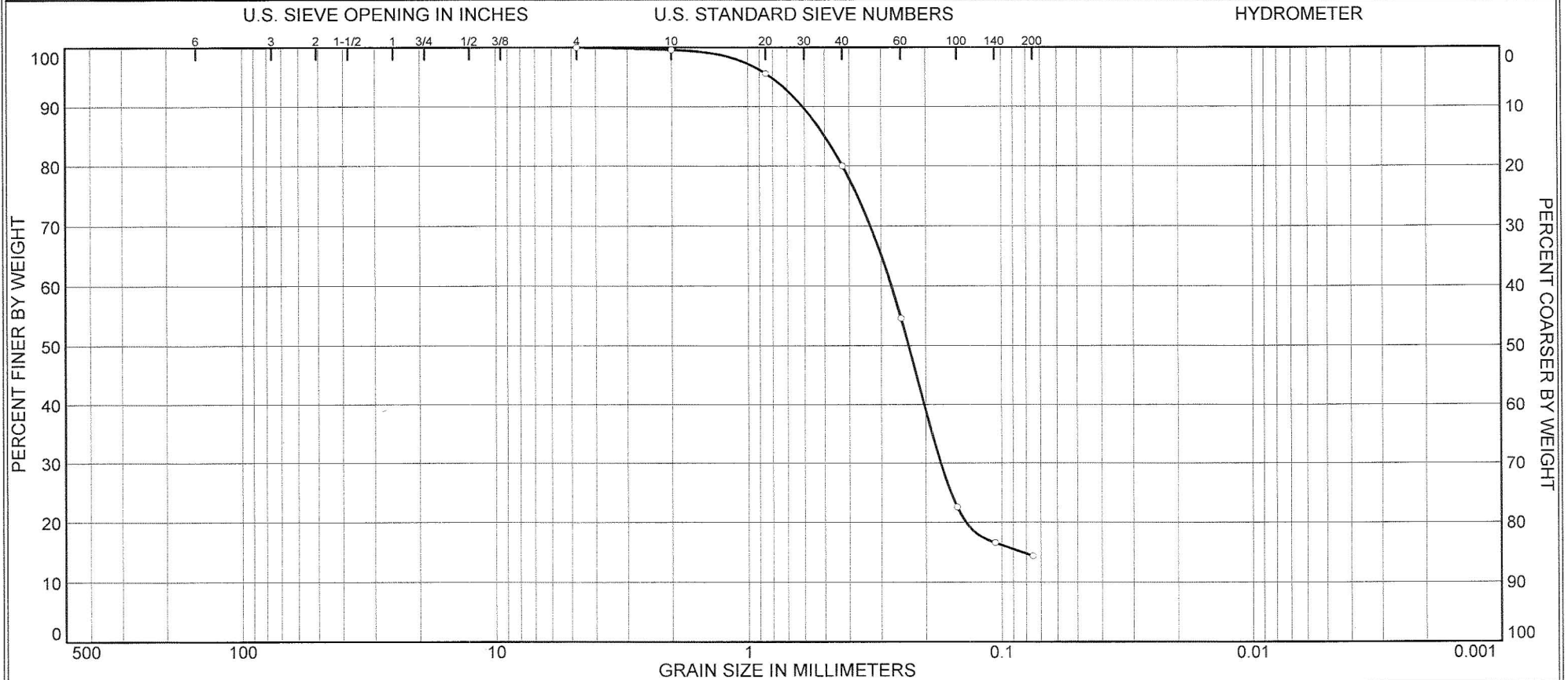
Sieve	Cumul. Wt. retained	Percent finer
Initial		
Dry sample and tare=	199.97	
Tare =	64.43	
Dry sample weight =	135.54	
Tare for cumulative weight retained= .00		
# 4	0.00	100.0
# 10	0.52	99.6
# 20	5.33	96.1
# 40	26.63	80.4
# 60	62.68	53.8
# 100	105.96	21.8
# 140	113.65	16.2
# 200	116.65	13.9

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 86.1 (**% coarse = 0.4** **% medium = 19.2** **% fine = 66.5**)
% FINES = 13.9

D85= 0.49 **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	0.4	19.6	65.7	14.3	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G7	G7-2	228.37'	N/A	SM	Red Silty sand	7.6	NV	NP

Client GPC c/o SNOG	MACTEC ENGINEERING AND CONSULTING, INC.	Tested by: SW/MD 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 G7
Sample No.: G7-2
Elev. or Depth: 228.37' **Sample Length(in./cm.):** N/A
Location: G7-2
Description: Red Silty sand
Date: N/A **Natural Moisture:** 7.6
Liquid Limit: NV **Plastic Limit:** NP **USCS Class.:** SM
Testing Remarks: Tested by: SW/MD Reviewed by: MC

Mechanical Analysis Data

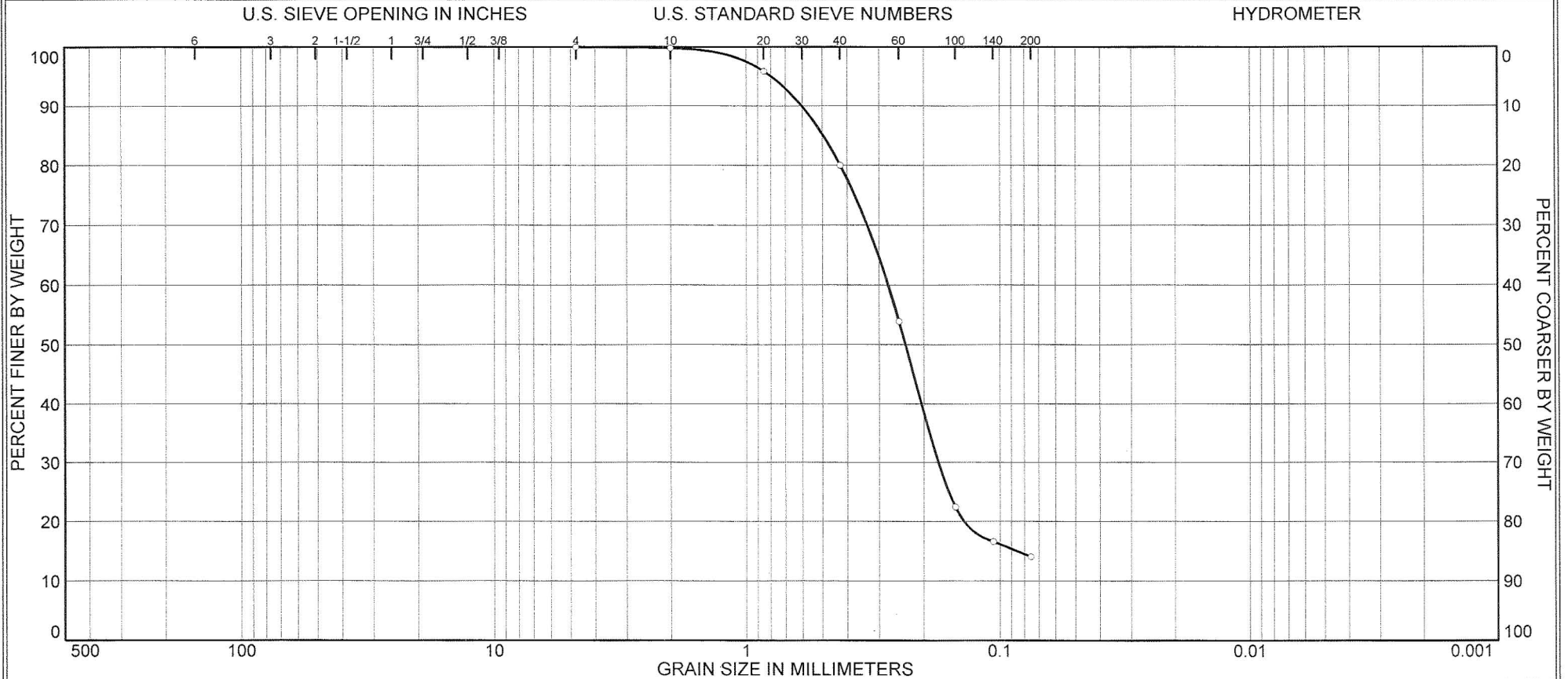
Sieve	Cumul. Wt. retained	Percent finer
Initial		
Dry sample and tare=	200.62	
Tare =	64.30	
Dry sample weight =	136.32	
Tare for cumulative weight retained= .00		
# 4	0.00	100.0
# 10	0.52	99.6
# 20	5.99	95.6
# 40	27.24	80.0
# 60	61.89	54.6
# 100	105.63	22.5
# 140	113.78	16.5
# 200	116.79	14.3

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 85.7 (**% coarse = 0.4** **% medium = 19.6** **% fine = 65.7**)
% FINES = 14.3

D85= 0.50 **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	0.2	19.8	66.0	14.0	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G7	G7-3	228.50'	N/A		Red Silty sand	9.7		

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

Sample Data

Source: Test Pad Backfill G7
Sample No.: G7-3
Elev. or Depth: 228.50' **Sample Length(in./cm.):** N/A
Location: G7-3
Description: Red Silty sand
Date: N/A **Natural Moisture:** 9.7
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: MD/SW Reviewed by: MC

Mechanical Analysis Data

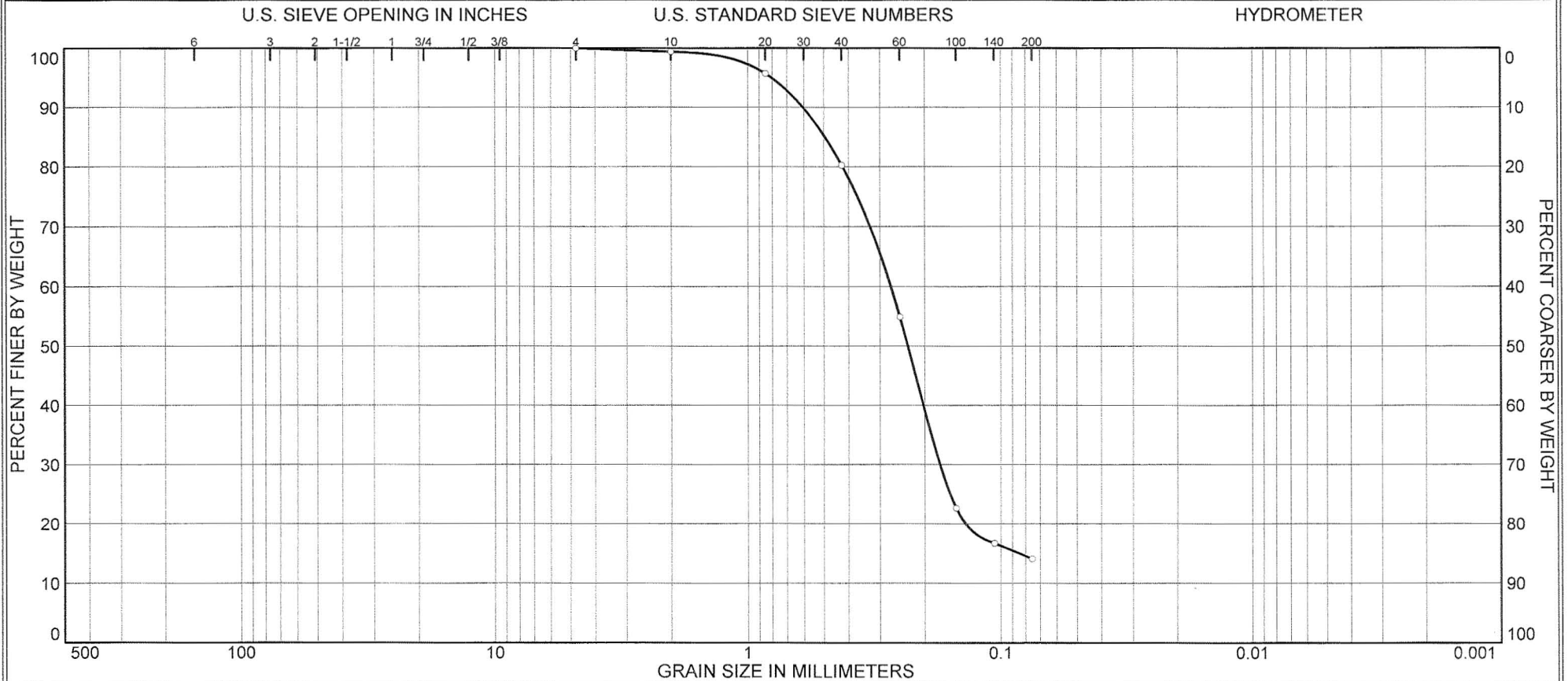
	Initial	
Dry sample and tare=	209.06	
Tare =	70.33	
Dry sample weight =	138.73	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.30	99.8
# 20	5.71	95.9
# 40	27.80	80.0
# 60	63.90	53.9
# 100	107.70	22.4
# 140	115.90	16.5
# 200	119.37	14.0

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 86.0 (**% coarse = 0.2** **% medium = 19.8** **% fine = 66.0**)
% FINES = 14.0

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	0.6	19.2	66.2	14.0	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G7	G7-4	228.41'	N/A		Red Silty sand	6.3		

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 G7
Sample No.: G7-4
Elev. or Depth: 228.41' **Sample Length(in./cm.):** N/A
Location: G7-4
Description: Red Silty sand
Date: N/A **Natural Moisture:** 6.3
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: MD/SW Reviewed by: MC

Mechanical Analysis Data

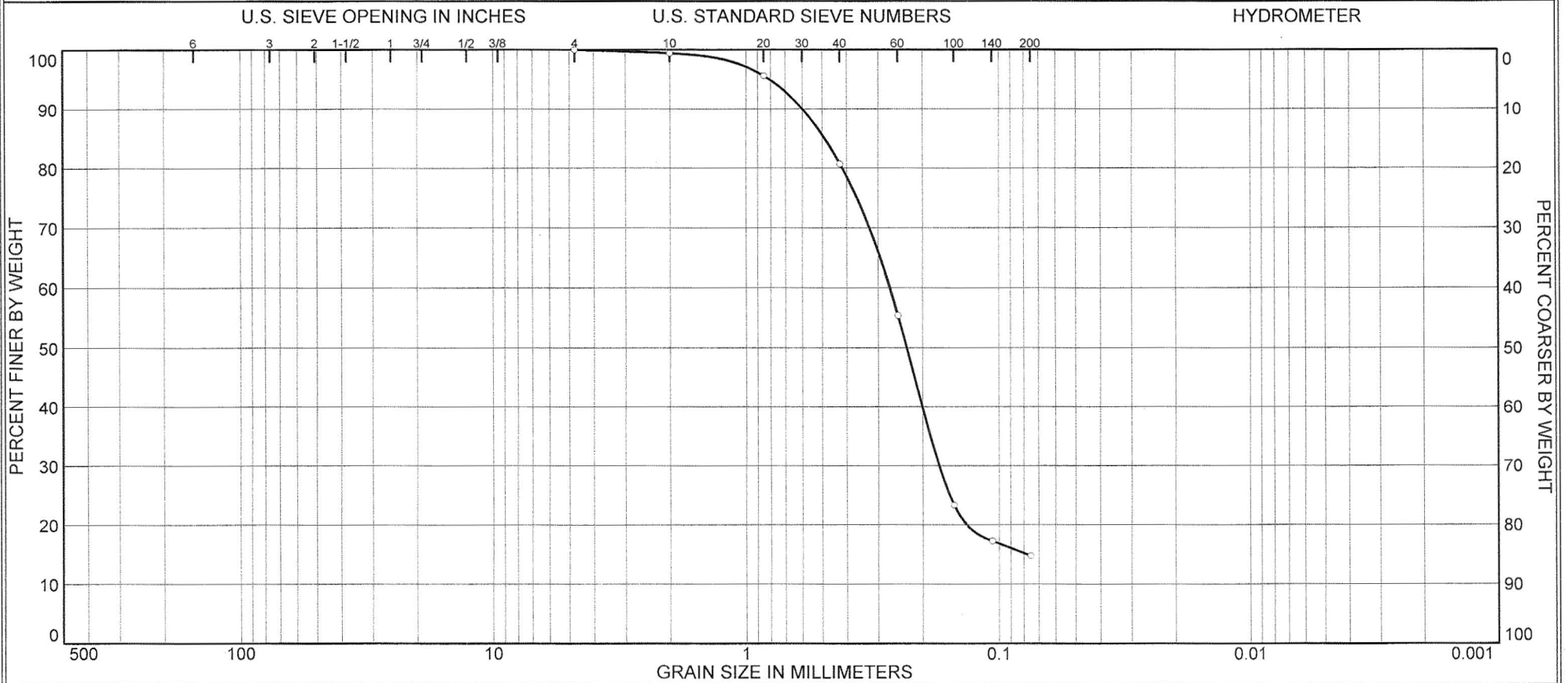
Sieve	Cumul. Wt. retained	Percent finer
Initial		
Dry sample and tare=	200.18	
Tare =	64.38	
Dry sample weight =	135.80	
Tare for cumulative weight retained= .00		
# 4	0.00	100.0
# 10	0.78	99.4
# 20	5.86	95.7
# 40	26.91	80.2
# 60	61.20	54.9
# 100	105.06	22.6
# 140	113.32	16.6
# 200	116.79	14.0

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 86.0 (**% coarse = 0.6** **% medium = 19.2** **% fine = 66.2**)
% FINES = 14.0

D₈₅ = 0.50 **D₆₀ = 0.27** **D₅₀ = 0.23**
D₃₀ = 0.17 **D₁₅ = 0.09**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.6	18.7	66.0	14.7	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G8	G8-1	228.82'	N/A	SM	Red Silty sand	7.9	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: SW/MD

Reviewed by: MC

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 G8
Sample No.: G8-1
Elev. or Depth: 228.82' **Sample Length(in./cm.):** N/A
Location: G8-1
Description: Red Silty sand
Date: N/A **Natural Moisture:** 7.9
Liquid Limit: NV **Plastic Limit:** NP **USCS Class.:** SM
Testing Remarks: Tested by: SW/MD Reviewed by: MC

Mechanical Analysis Data

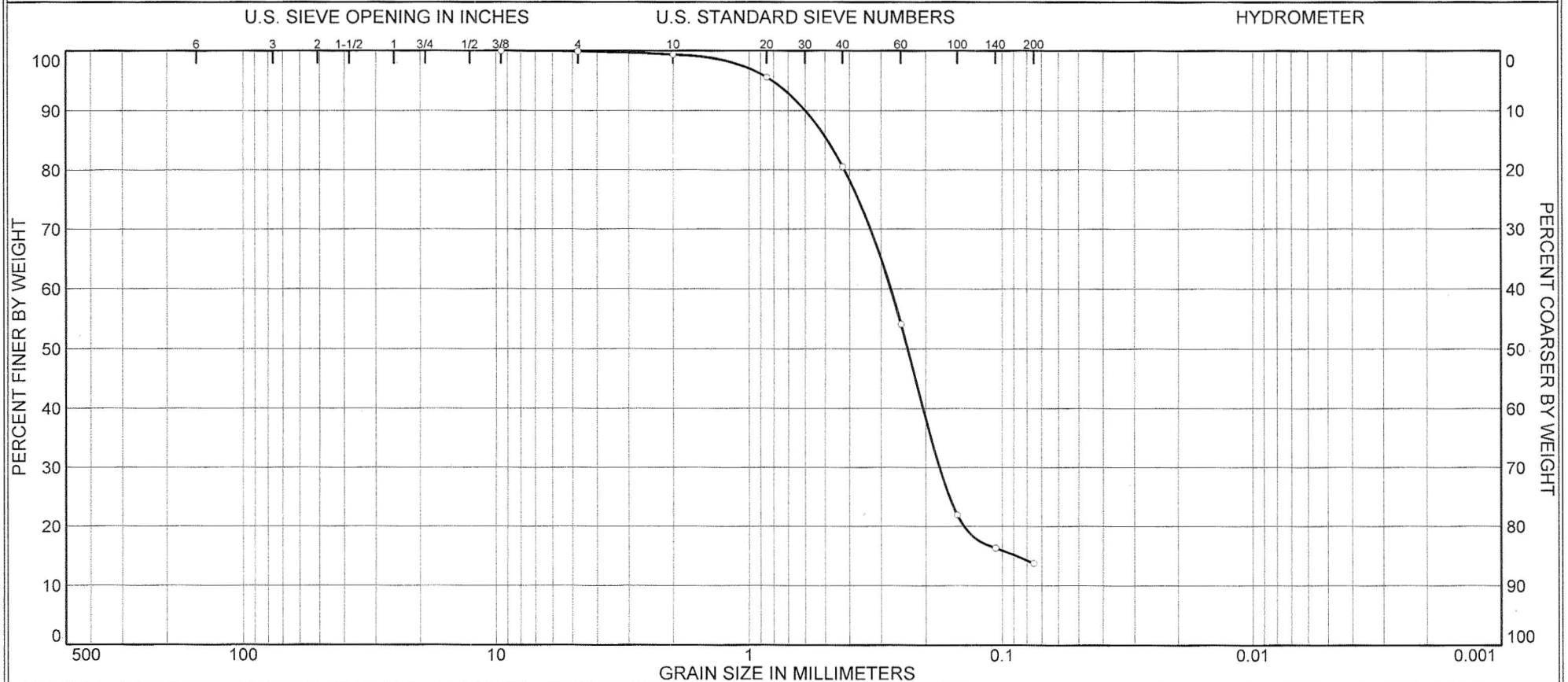
	Initial	
Dry sample and tare=	200.90	
Tare =	64.38	
Dry sample weight =	136.52	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.76	99.4
# 20	6.00	95.6
# 40	26.40	80.7
# 60	60.90	55.4
# 100	104.66	23.3
# 140	113.05	17.2
# 200	116.49	14.7

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 85.3 (**% coarse = 0.6** **% medium = 18.7** **% fine = 66.0**)
% FINES = 14.7

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	0.1	0.5	18.9	66.8	13.7	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G8	G8-2	228.95'	N/A		Red Silty sand	8.5		

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: SW/MD

Reviewed by: MC

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 G8
Sample No.: G8-2
Elev. or Depth: 228.95' **Sample Length(in./cm.):** N/A
Location: G8-2
Description: Red Silty sand
Date: N/A **Natural Moisture:** 8.5
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: SW/MD Reviewed by: MC

Mechanical Analysis Data

	Initial	
Dry sample and tare=	198.68	
Tare =	64.18	
Dry sample weight =	134.50	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.20	99.9
# 10	0.75	99.4
# 20	5.95	95.6
# 40	26.26	80.5
# 60	61.74	54.1
# 100	105.05	21.9
# 140	112.63	16.3
# 200	116.01	13.7

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL = 0.1** (**% coarse =** **% fine = 0.1**)
% SAND = 86.2 (**% coarse = 0.5** **% medium = 18.9** **% fine = 66.8**)
% FINES = 13.7

D85= 0.49 D60= 0.27 D50= 0.24
D30= 0.18 D15= 0.09