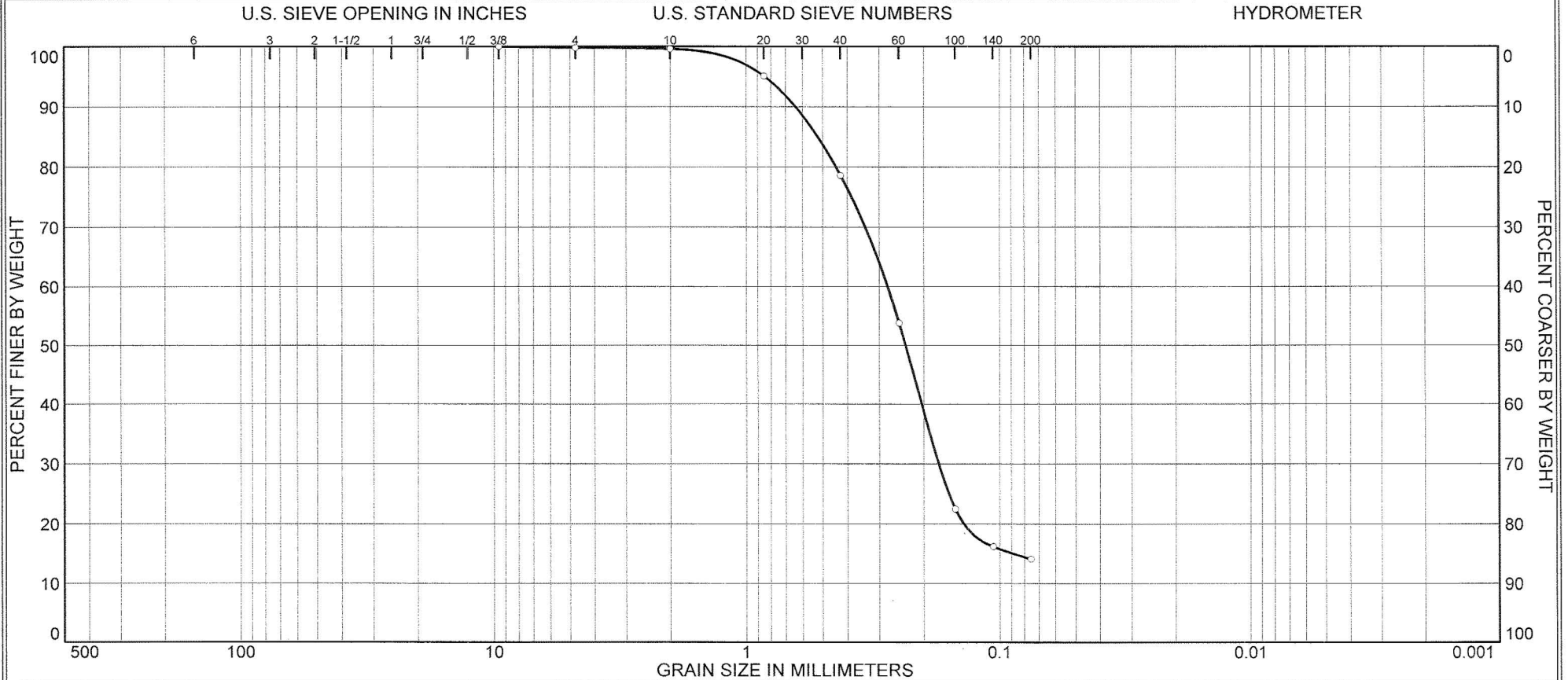


Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.2	0.2	21.0	64.5	14.1	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G10-3	G10-3	230.26'	N/A		Red Silty sand	9.9		

Client GPC c/o SNOG		MACTEC ENGINEERING AND CONSULTING, INC.	Tested by: EH Reviewed by: HJ
Project Vogtle Units 3 & 4 Test Pad Project			
Project No. 6141-06-0286.54	8121		

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 G10-3
Sample No.: G10-3
Elev. or Depth: 230.26' **Sample Length(in./cm.):** 8121
Location: G10-3
Description: Red Silty sand
Date: N/A **Natural Moisture:** 9.9
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: EH Reviewed by: HJ

Mechanical Analysis Data

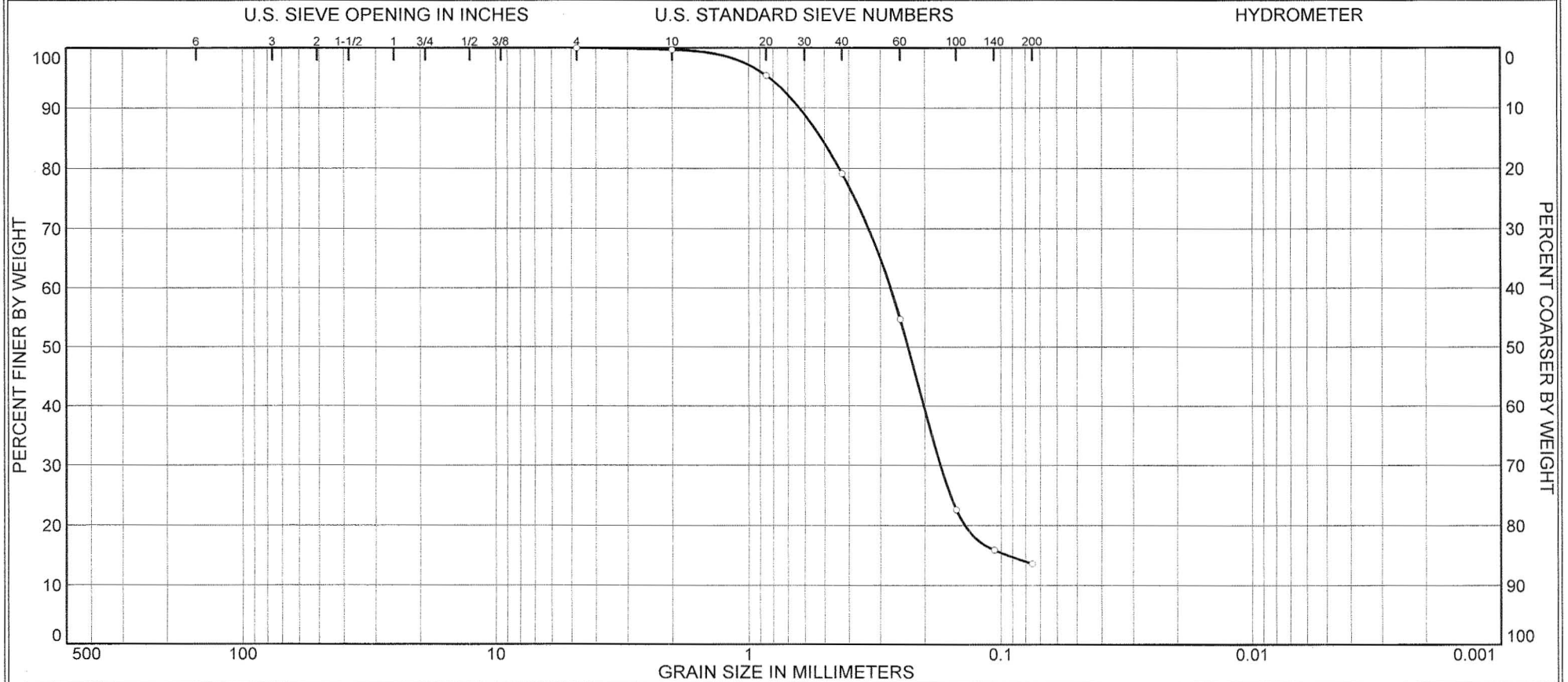
	Initial	
Dry sample and tare=	228.72	
Tare =	110.12	
Dry sample weight =	118.60	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.22	99.8
# 10	0.48	99.6
# 20	5.81	95.1
# 40	25.37	78.6
# 60	54.75	53.8
# 100	91.88	22.5
# 140	99.37	16.2
# 200	101.92	14.1

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL = 0.2 (% coarse = % fine = 0.2)
% SAND = 85.7 (% coarse = 0.2 % medium = 21.0 % fine = 64.5)
% FINES = 14.1

D85= 0.52 D60= 0.28 D50= 0.24
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	0.3	20.6	65.5	13.6	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G10-4	G10-4	230.25'	N/A	SM	Red Silty sand	8.0	NV	NP

Client GPC c/o SNOC		MACTEC ENGINEERING AND CONSULTING, INC.	☐ Tested by: EH Reviewed by: HJ
Project Vogtle Units 3 & 4 Test Pad Project			
Project No. 6141-06-0286.54	8122		

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 G10-4
Sample No.: G10-4
Elev. or Depth: 230.25' **Sample Length(in./cm.):** 8122
Location: G10-4
Description: Red Silty sand
Date: N/A **Natural Moisture:** 8.0
Liquid Limit: NV **Plastic Limit:** NP **USCS Class.:** SM
Testing Remarks: Tested by: EH Reviewed by: HJ

Mechanical Analysis Data

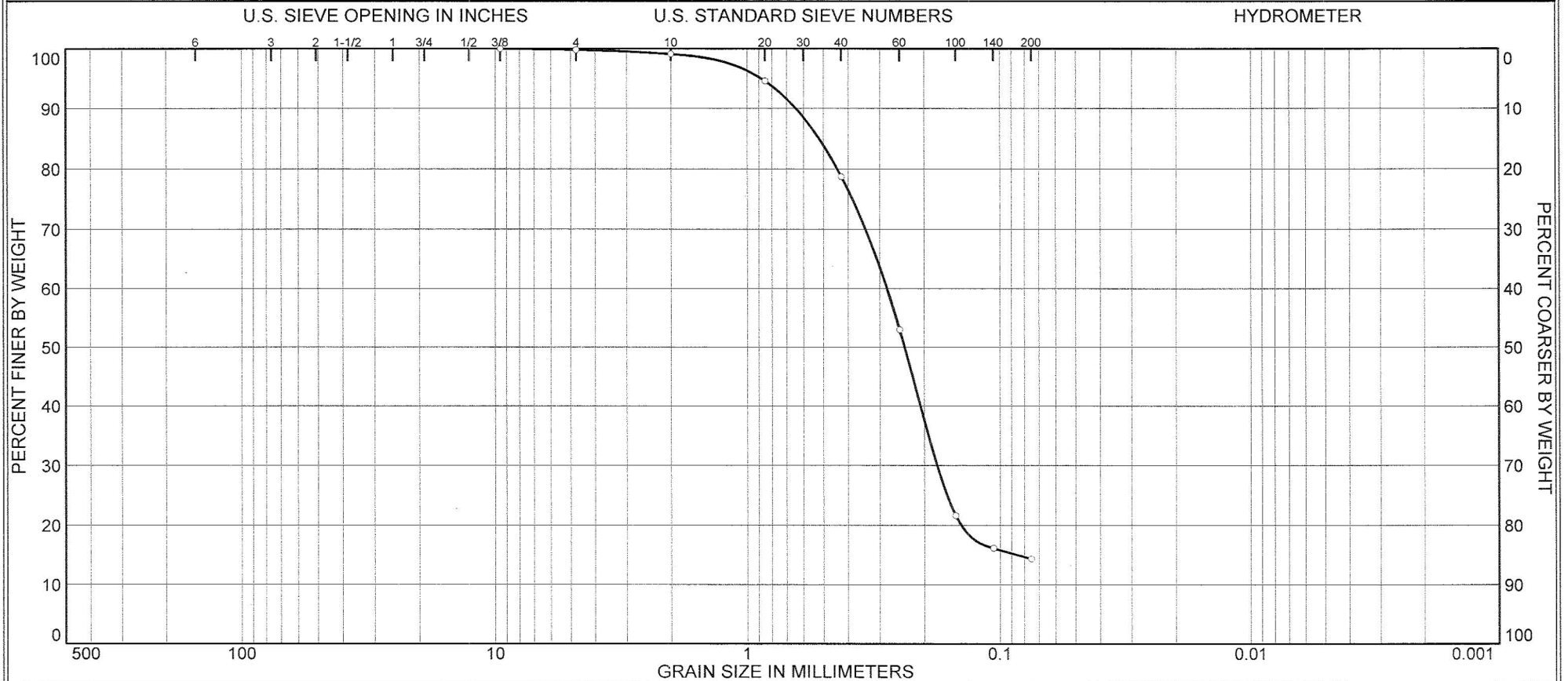
	Initial	
Dry sample and tare=	216.68	
Tare =	110.59	
Dry sample weight =	106.09	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.31	99.7
# 20	4.86	95.4
# 40	22.18	79.1
# 60	48.02	54.7
# 100	82.10	22.6
# 140	89.18	15.9
# 200	91.70	13.6

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 86.4 (**% coarse = 0.3** **% medium = 20.6** **% fine = 65.5**)
% FINES = 13.6

D₈₅ = 0.51 **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	0.2	0.7	20.4	64.4	14.3	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G11	G11-1	230.49'	N/A		Red Silty sand	9.9		

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 G11
Sample No.: G11-1
Elev. or Depth: 230.49' **Sample Length(in./cm.):** N/A
Location: G11-1
Description: Red Silty sand
Date: N/A **Natural Moisture:** 9.9
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: SW/MD Reviewed by: MC

Mechanical Analysis Data

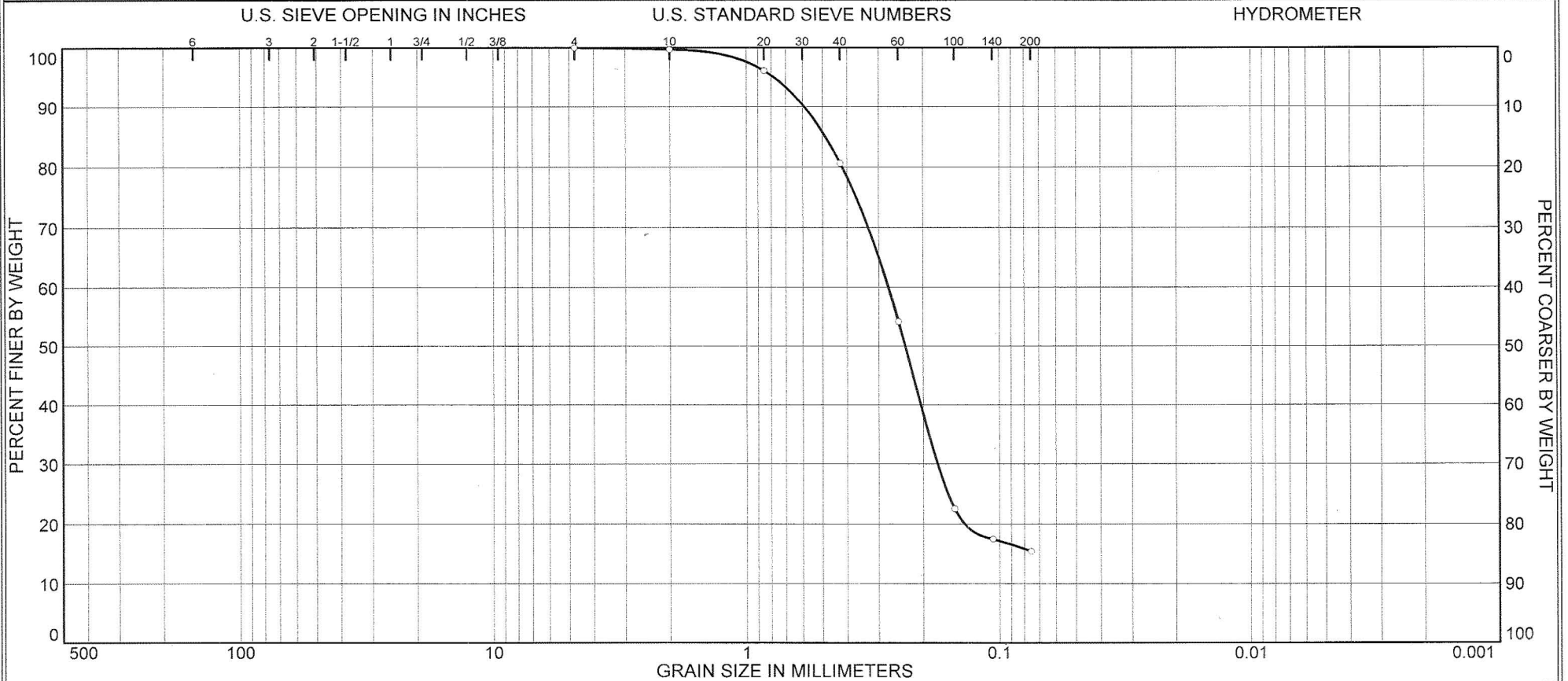
Sieve	Cumul. Wt. retained	Percent finer
Initial		
Dry sample and tare=	201.15	
Tare =	64.33	
Dry sample weight =	136.82	
Tare for cumulative weight retained= .00		
.375 inch	0.00	100.0
# 4	0.29	99.8
# 10	1.27	99.1
# 20	7.39	94.6
# 40	29.19	78.7
# 60	64.37	53.0
# 100	107.21	21.6
# 140	114.79	16.1
# 200	117.23	14.3

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL = 0.2 (% coarse = % fine = 0.2)
% SAND = 85.5 (% coarse = 0.7 % medium = 20.4 % fine = 64.4)
% FINES = 14.3

D85= 0.52 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	19.1	65.2	15.4	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G11	G11-2	230.60'	N/A	SM	Red Silty sand	10.3	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 SNOG
Project: Vogtle Units 3 & 4 Test Pad Project
Project Number: 6141-06-0286.54

Sample Data

Source: Test Pad Backfill G11
Sample No.: G11-2
Elev. or Depth: 230.60' **Sample Length(in./cm.):** N/A
Location: G11-2
Description: Red Silty sand
Date: N/A **Natural Moisture:** 10.3
Liquid Limit: NV **Plastic Limit:** NP **USCS Class.:** SM
Testing Remarks: Tested by: SW/MD Reviewed by: MC

Mechanical Analysis Data

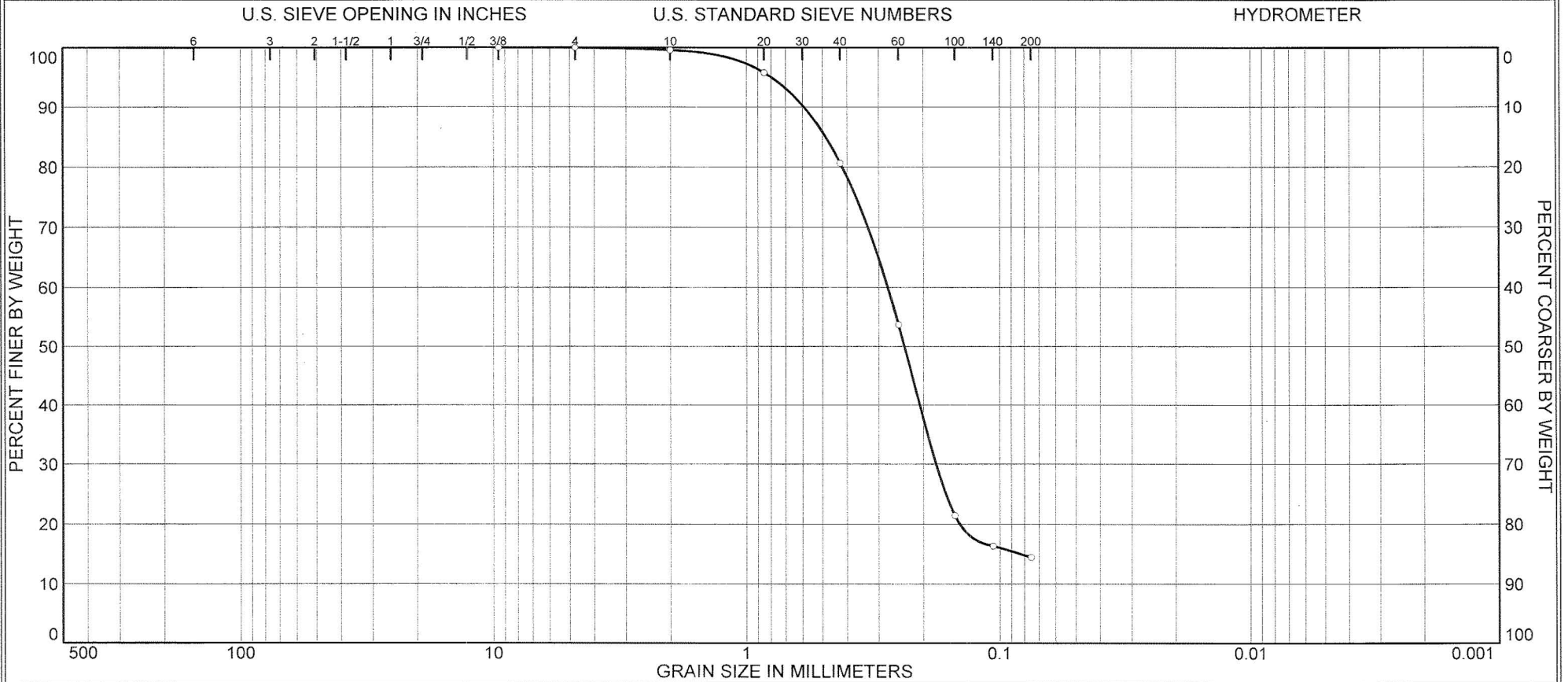
Sieve	Cumul. Wt. retained	Percent finer
Initial		
Dry sample and tare=	201.06	
Tare =	64.16	
Dry sample weight =	136.90	
Tare for cumulative weight retained= .00		
# 4	0.00	100.0
# 10	0.37	99.7
# 20	5.29	96.1
# 40	26.53	80.6
# 60	62.73	54.2
# 100	106.07	22.5
# 140	113.06	17.4
# 200	115.83	15.4

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 84.6 (**% coarse = 0.3** **% medium = 19.1** **% fine = 65.2**)
% FINES = 15.4

D85= 0.49 **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	19.0	66.2	14.4	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G11	G11-3	230.61'	N/A		Red Silty sand	9.7		

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 G11
Sample No.: G11-3
Elev. or Depth: 230.61' **Sample Length(in./cm.):** N/A
Location: G11-3
Description: Red Silty sand
Date: N/A **Natural Moisture:** 9.7
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: SW/MD Reviewed by: MC

Mechanical Analysis Data

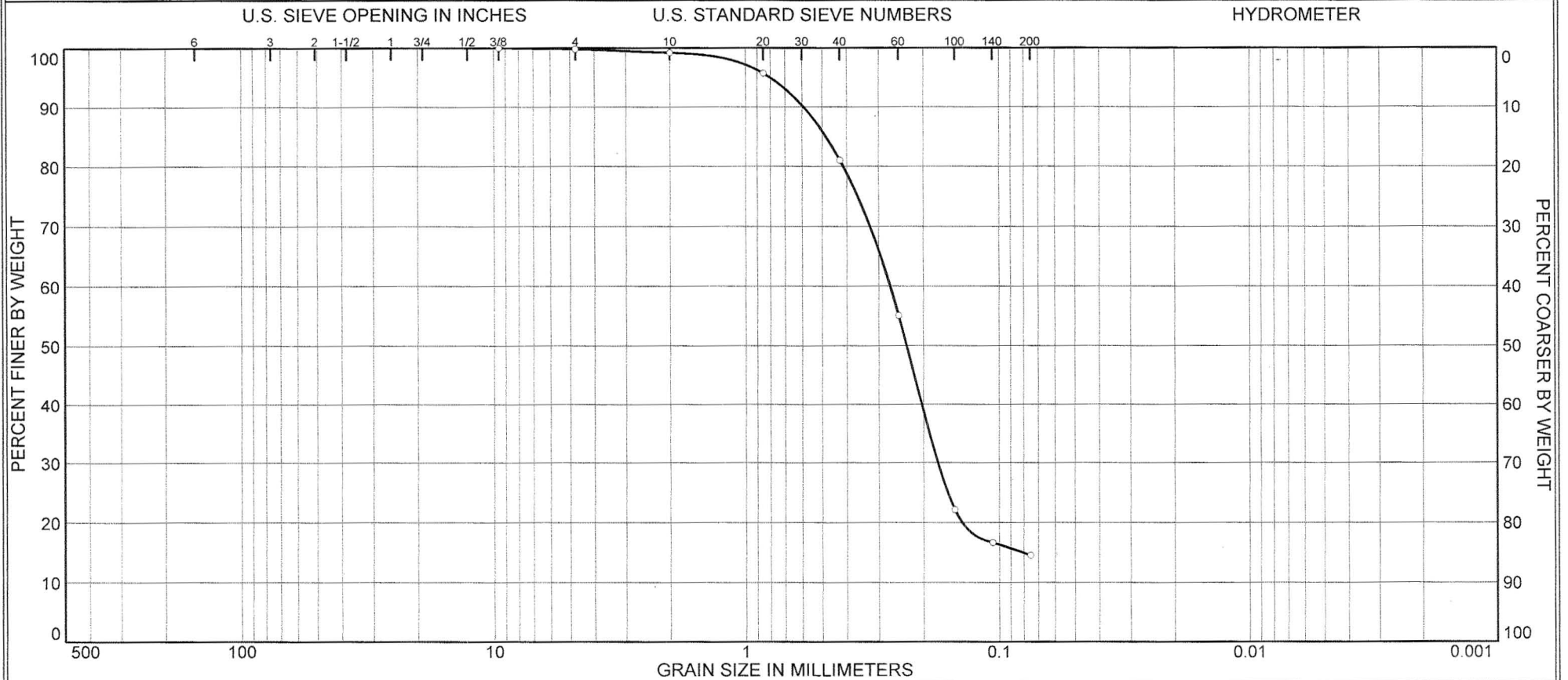
Sieve	Cumul. Wt. retained	Percent finer
Initial		
Dry sample and tare=	204.03	
Tare =	70.20	
Dry sample weight =	133.83	
Tare for cumulative weight retained= .00		
.375 inch	0.00	100.0
# 4	0.00	100.0
# 10	0.51	99.6
# 20	5.62	95.8
# 40	26.00	80.6
# 60	62.00	53.7
# 100	105.23	21.4
# 140	112.07	16.3
# 200	114.59	14.4

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 85.6 (**% coarse = 0.4** **% medium = 19.0** **% fine = 66.2**)
% FINES = 14.4

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	0.2	0.6	18.2	66.5	14.5	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G11	G11-4	230.50'	N/A		Red Silty sand	8.4		

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 G11
Sample No.: G11-4
Elev. or Depth: 230.50' **Sample Length(in./cm.):** N/A
Location: G11-4
Description: Red Silty sand
Date: N/A **Natural Moisture:** 8.4
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: SW/MD Reviewed by: MC

Mechanical Analysis Data

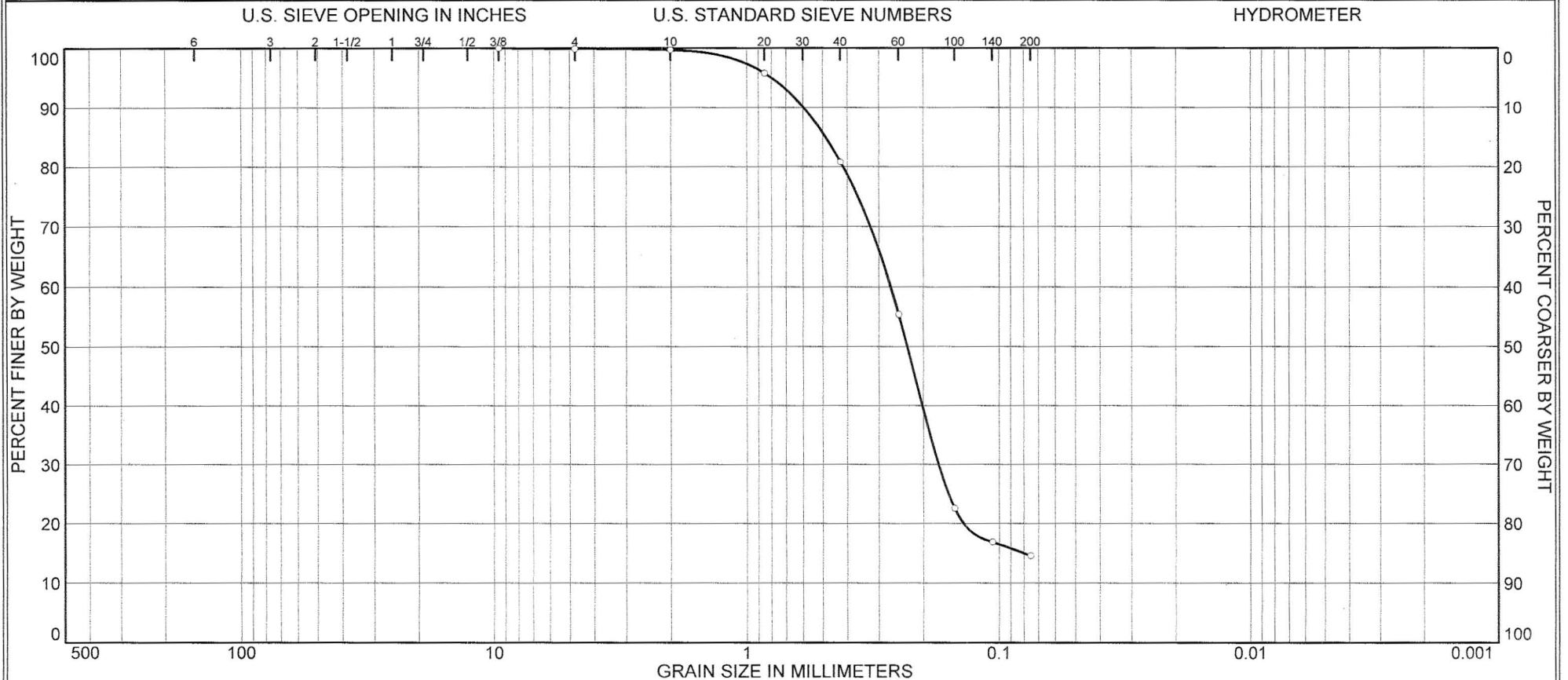
	Initial	
Dry sample and tare=	207.31	
Tare =	64.31	
Dry sample weight =	143.00	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.32	99.8
# 10	1.11	99.2
# 20	6.13	95.7
# 40	27.17	81.0
# 60	64.22	55.1
# 100	111.43	22.1
# 140	119.22	16.6
# 200	122.26	14.5

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL = 0.2** (**% coarse =** **% fine = 0.2**)
% SAND = 85.3 (**% coarse = 0.6** **% medium = 18.2** **% fine = 66.5**)
% FINES = 14.5

D₈₅ = 0.48 **D₆₀ = 0.27** **D₅₀ = 0.23**
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	0.1	0.2	18.9	66.3	14.5	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G12	G12-1	230.95'	N/A		Red Silty sand	10.3		

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

Sample Data

Source: Test Pad Backfill G12
Sample No.: G12-1
Elev. or Depth: 230.95' **Sample Length(in./cm.):** N/A
Location: G12-1
Description: Red Silty sand
Date: N/A **Natural Moisture:** 10.3
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: SW/MD Reviewed by: MC

Mechanical Analysis Data

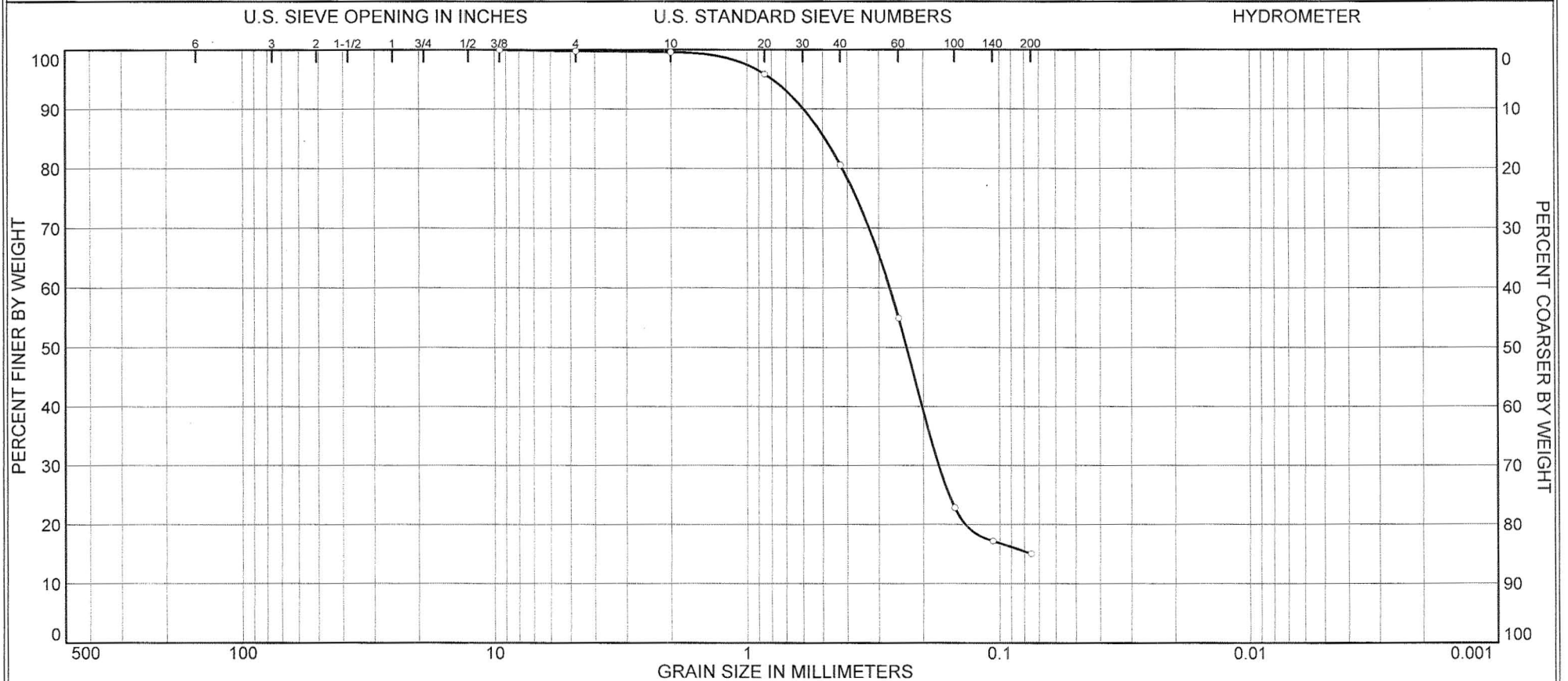
	Initial	
Dry sample and tare=	201.51	
Tare =	64.36	
Dry sample weight =	137.15	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.18	99.9
# 10	0.40	99.7
# 20	5.79	95.8
# 40	26.29	80.8
# 60	61.11	55.4
# 100	106.25	22.5
# 140	114.15	16.8
# 200	117.24	14.5

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL = 0.1** (**% coarse =** **% fine = 0.1**)
% SAND = 85.4 (**% coarse = 0.2** **% medium = 18.9** **% fine = 66.3**)
% FINES = 14.5

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	0.2	0.2	19.1	65.5	15.0	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G12	G12-2	230.89'	N/A		Red Silty sand	10.2		

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 G12
Sample No.: G12-2
Elev. or Depth: 230.89' **Sample Length(in./cm.):** N/A
Location: G12-2
Description: Red Silty sand
Date: N/A **Natural Moisture:** 10.2
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: SW/MD Reviewed by: MC

Mechanical Analysis Data

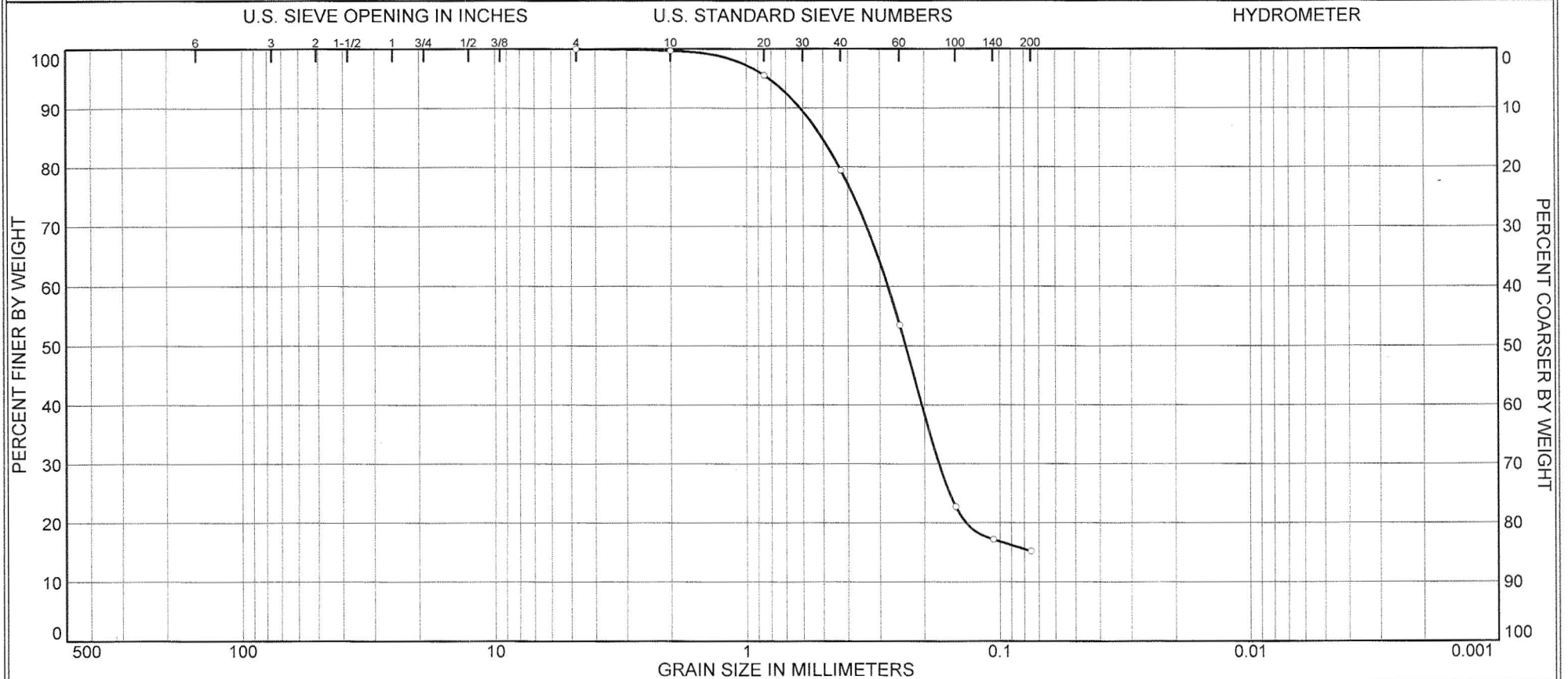
	Initial	
Dry sample and tare=	202.28	
Tare =	64.23	
Dry sample weight =	138.05	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.33	99.8
# 10	0.59	99.6
# 20	5.63	95.9
# 40	26.92	80.5
# 60	62.28	54.9
# 100	106.51	22.8
# 140	114.46	17.1
# 200	117.40	15.0

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL = 0.2 (% coarse = % fine = 0.2)
% SAND = 84.8 (% coarse = 0.2 % medium = 19.1 % fine = 65.5)
% 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	20.3	64.3	15.1	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G12	G12-3	231.01'	N/A	SM	Red Silty sand	12.2	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 SNOG
Project: Vogtle Units 3 & 4 Test Pad Project
Project Number: 6141-06-0286.54

Sample Data

Source: Test Pad Backfill G12
Sample No.: G12-3
Elev. or Depth: 231.01' **Sample Length(in./cm.):** N/A
Location: G12-3
Description: Red Silty sand
Date: N/A **Natural Moisture:** 12.2
Liquid Limit: NV **Plastic Limit:** NP **USCS Class.:** SM
Testing Remarks: Tested by: SW/MD Reviewed by: MC

Mechanical Analysis Data

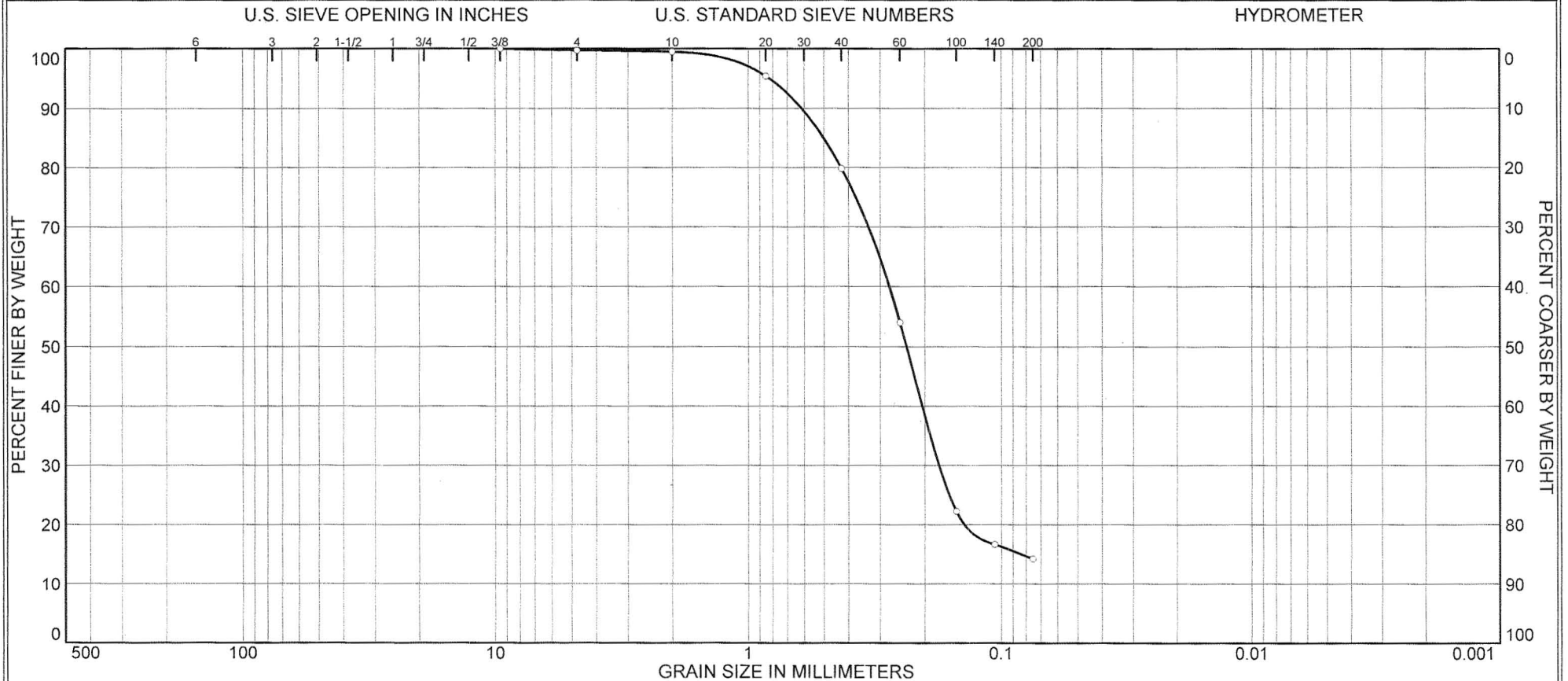
	Initial	
Dry sample and tare=	203.95	
Tare =	70.22	
Dry sample weight =	133.73	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.35	99.7
# 20	5.84	95.6
# 40	27.52	79.4
# 60	62.13	53.5
# 100	103.41	22.7
# 140	110.83	17.1
# 200	113.60	15.1

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 84.9 (**% coarse = 0.3** **% medium = 20.3** **% fine = 64.3**)
% FINES = 15.1

D₈₅ = 0.51 **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	0.3	0.2	19.7	65.6	14.2	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G12	G12-4	230.93'	N/A		Red Silty sand	10.2		

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 G12
Sample No.: G12-4
Elev. or Depth: 230.93' **Sample Length(in./cm.):** N/A
Location: G12-4
Description: Red Silty sand
Date: N/A **Natural Moisture:** 10.2
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: SW/MD Reviewed by: MC

Mechanical Analysis Data

	Initial	
Dry sample and tare=	201.10	
Tare =	64.38	
Dry sample weight =	136.72	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.43	99.7
# 10	0.70	99.5
# 20	6.31	95.4
# 40	27.61	79.8
# 60	62.85	54.0
# 100	106.40	22.2
# 140	114.06	16.6
# 200	117.35	14.2

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL = 0.3 (% coarse = % fine = 0.3)
% SAND = 85.5 (% coarse = 0.2 % medium = 19.7 % fine = 65.6)
% FINES = 14.2

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