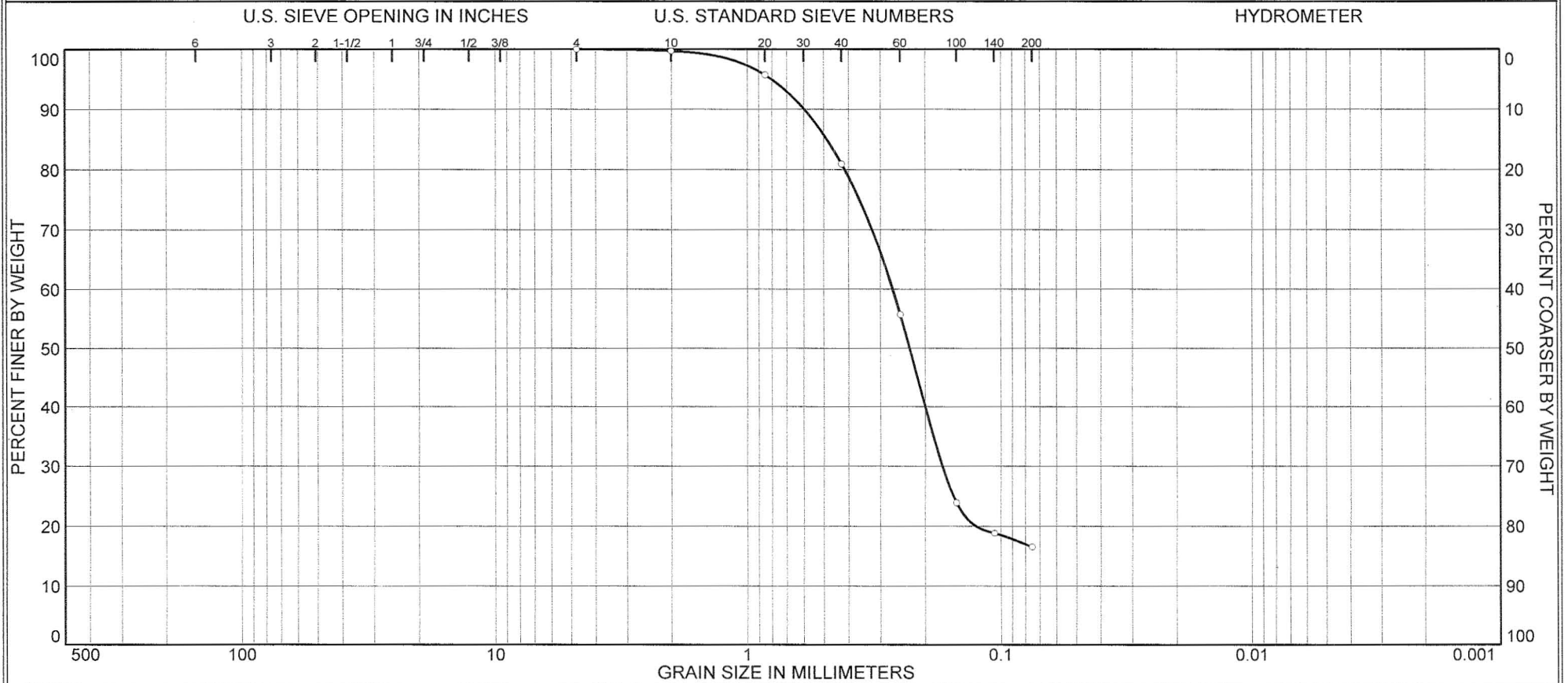


Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.3	18.8	64.4	16.5	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G20-3	G20-3	234.75'	N/A	SM	Red Silty sand	9.0	NV	NP

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 G20-3
Sample No.: G20-3
Elev. or Depth: 234.75' Sample Length(in./cm.): N/A
Location: G20-3
Description: Red Silty sand
Date: N/A Natural Moisture: 9.0
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= 209.05
Tare = 70.19
Dry sample weight = 138.86
Tare for cumulative weight retained= .00

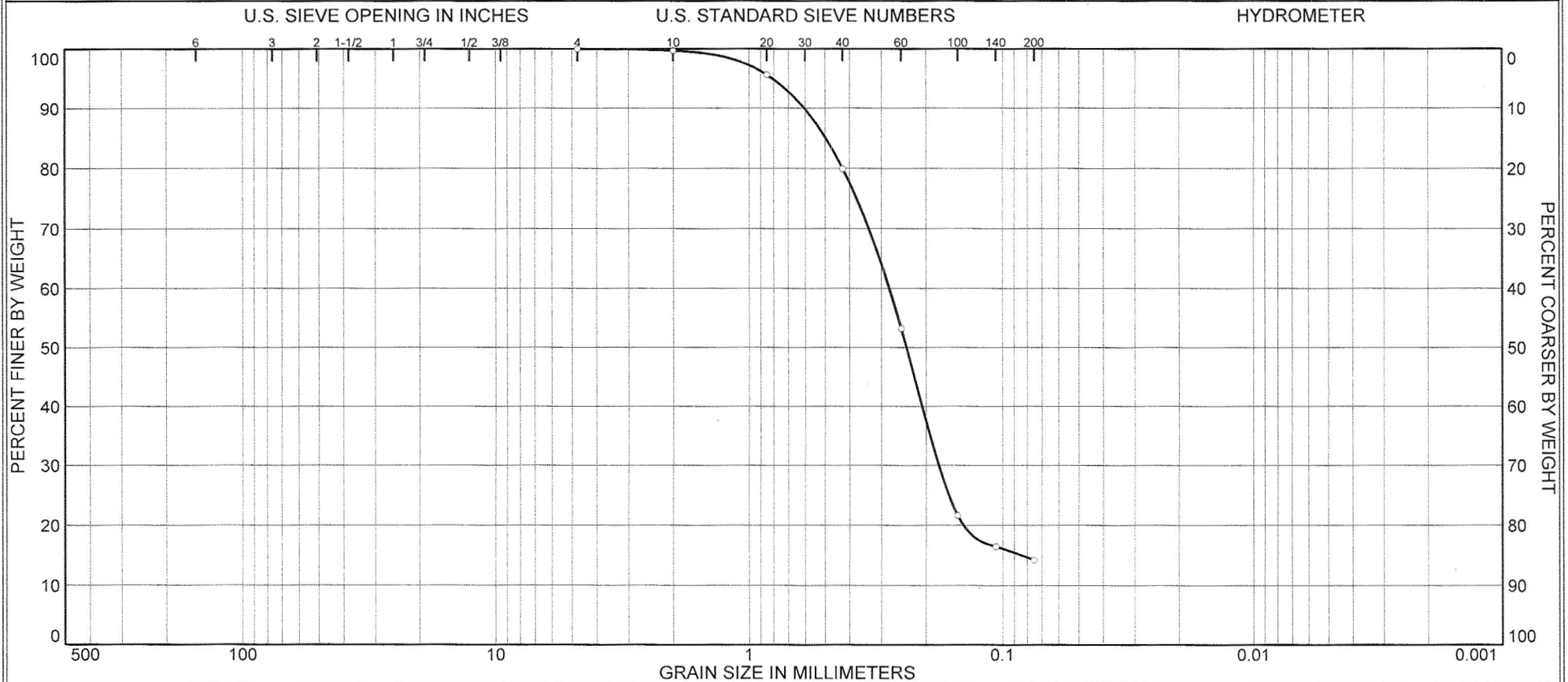
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.48	99.7
# 20	5.91	95.7
# 40	26.53	80.9
# 60	61.50	55.7
# 100	105.64	23.9
# 140	112.80	18.8
# 200	115.96	16.5

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL =
% SAND = 83.5 (% coarse = 0.3 % medium = 18.8 % fine = 64.4)
% FINES = 16.5

D85= 0.49 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	0.0	0.3	19.8	65.7	14.2	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G20-4	G20-4	235.00'	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 SNOC
Project: Vogtle Units 3 & 4 Test Pad Project
Project Number: 6141-06-0286.54

Sample Data

Source: Test Pad Backfill G20-4
Sample No.: G20-4
Elev. or Depth: 235.00' **Sample Length(in./cm.):** N/A
Location: G20-4
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

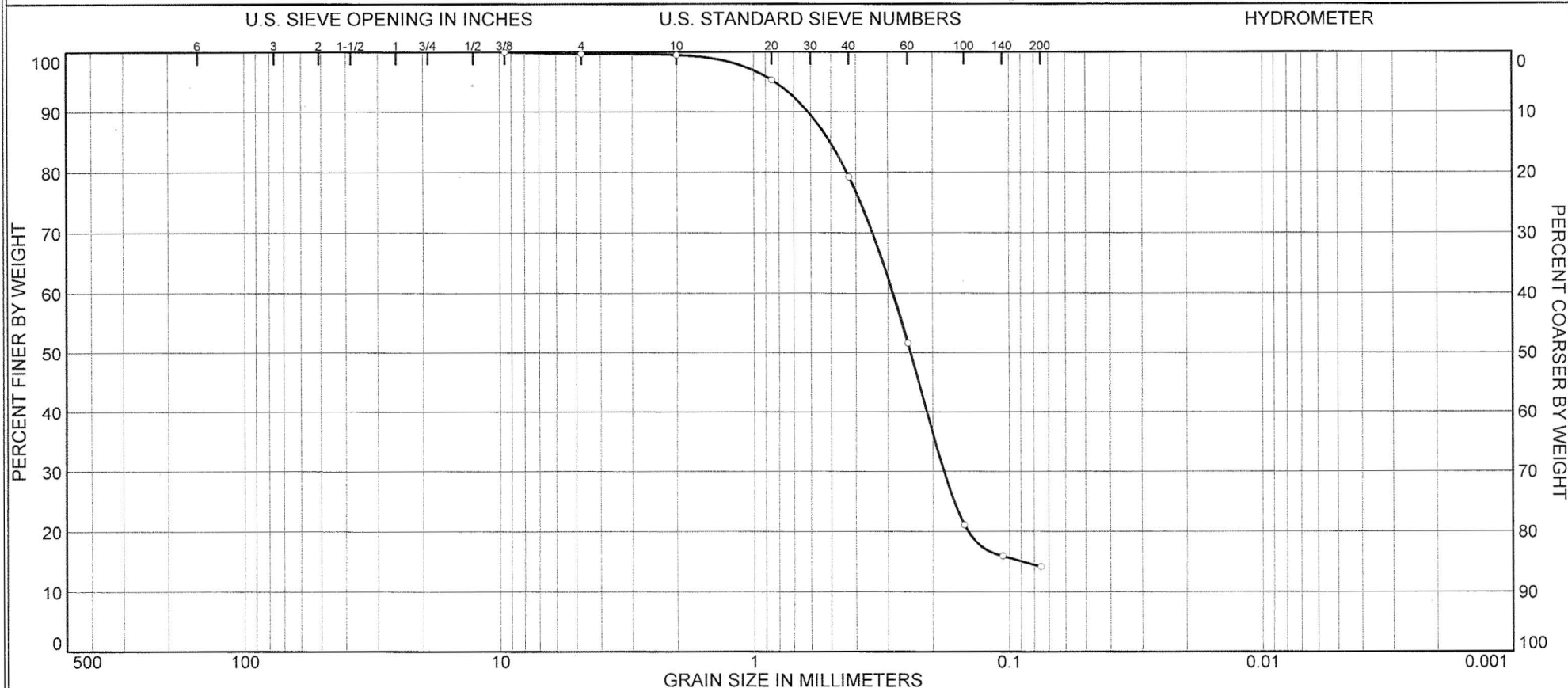
	Initial	
Dry sample and tare=	216.77	
Tare =	64.32	
Dry sample weight =	152.45	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.52	99.7
# 20	6.73	95.6
# 40	30.62	79.9
# 60	71.36	53.2
# 100	119.56	21.6
# 140	127.47	16.4
# 200	130.81	14.2

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 85.8 (% coarse = 0.3 % medium = 19.8 % fine = 65.7)
% 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	0.3	0.2	20.3	65.1	14.1	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G21-1	G21-1	235.65'	N/A	SM	Red Silty sand	8.7	NV	NP

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: 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 G21-1
Sample No.: G21-1
Elev. or Depth: 235.65' **Sample Length(in./cm.):** N/A
Location: G21-1
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

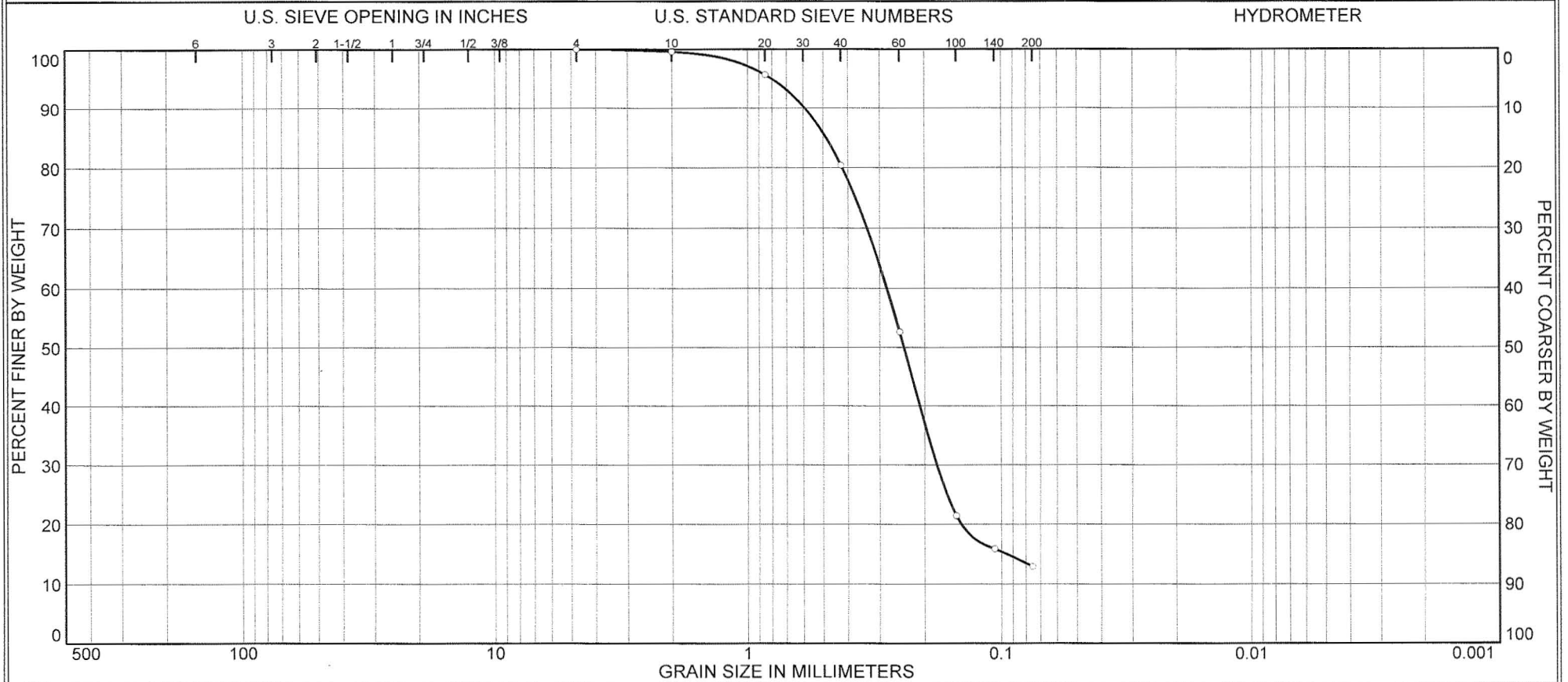
	Initial	
Dry sample and tare=	200.50	
Tare =	64.36	
Dry sample weight =	136.14	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.36	99.7
# 10	0.69	99.5
# 20	6.42	95.3
# 40	28.30	79.2
# 60	65.86	51.6
# 100	107.43	21.1
# 140	114.45	15.9
# 200	116.89	14.1

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL = 0.3** (**% coarse =** **% fine = 0.3**)
% SAND = 85.6 (**% coarse = 0.2** **% medium = 20.3** **% fine = 65.1**)
% FINES = 14.1

D85= 0.50 D60= 0.29 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	19.2	67.5	12.9	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G21-2	G21-2	235.64'	N/A		Red Silty sand	8.9		

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

Sample Data

Source: Test Pad Backfill G21-2
Sample No.: G21-2
Elev. or Depth: 235.64' **Sample Length(in./cm.):** N/A
Location: G21-2
Description: Red Silty sand
Date: N/A **Natural Moisture:** 8.9
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: SW/MD Reviewed by: MC

Mechanical Analysis Data

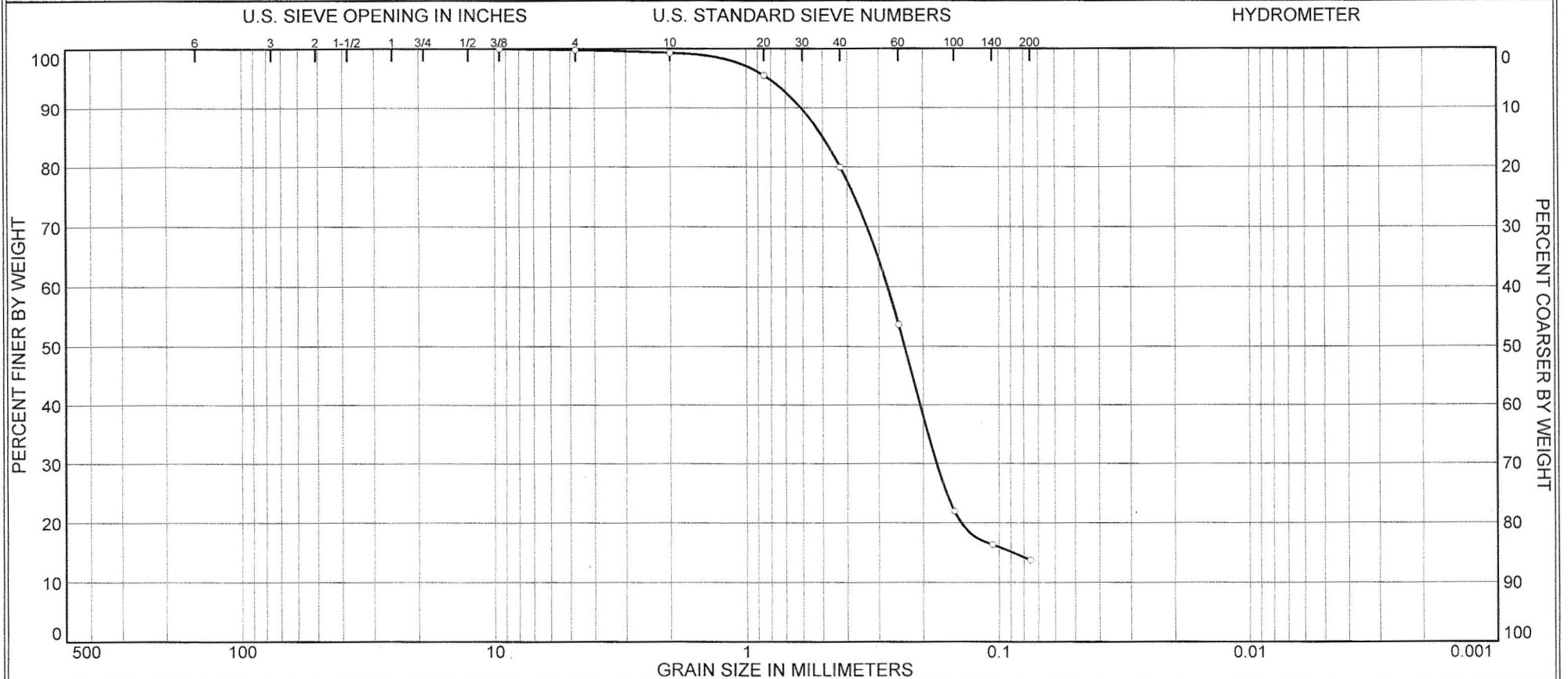
	Initial	
Dry sample and tare=	203.29	
Tare =	64.23	
Dry sample weight =	139.06	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.62	99.6
# 20	5.99	95.7
# 40	27.31	80.4
# 60	65.92	52.6
# 100	109.30	21.4
# 140	117.08	15.8
# 200	121.18	12.9

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 87.1 (**% coarse = 0.4** **% medium = 19.2** **% fine = 67.5**)
% FINES = 12.9

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	0.2	0.5	19.4	66.2	13.7	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G21-3	G21-3	235.29'	N/A		Red Silty sand	8.6		

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 G21-3
Sample No.: G21-3
Elev. or Depth: 235.29' **Sample Length(in./cm.):** N/A
Location: G21-3
Description: Red Silty sand
Date: N/A **Natural Moisture:** 8.6
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: SW/MD Reviewed by: MC

Mechanical Analysis Data

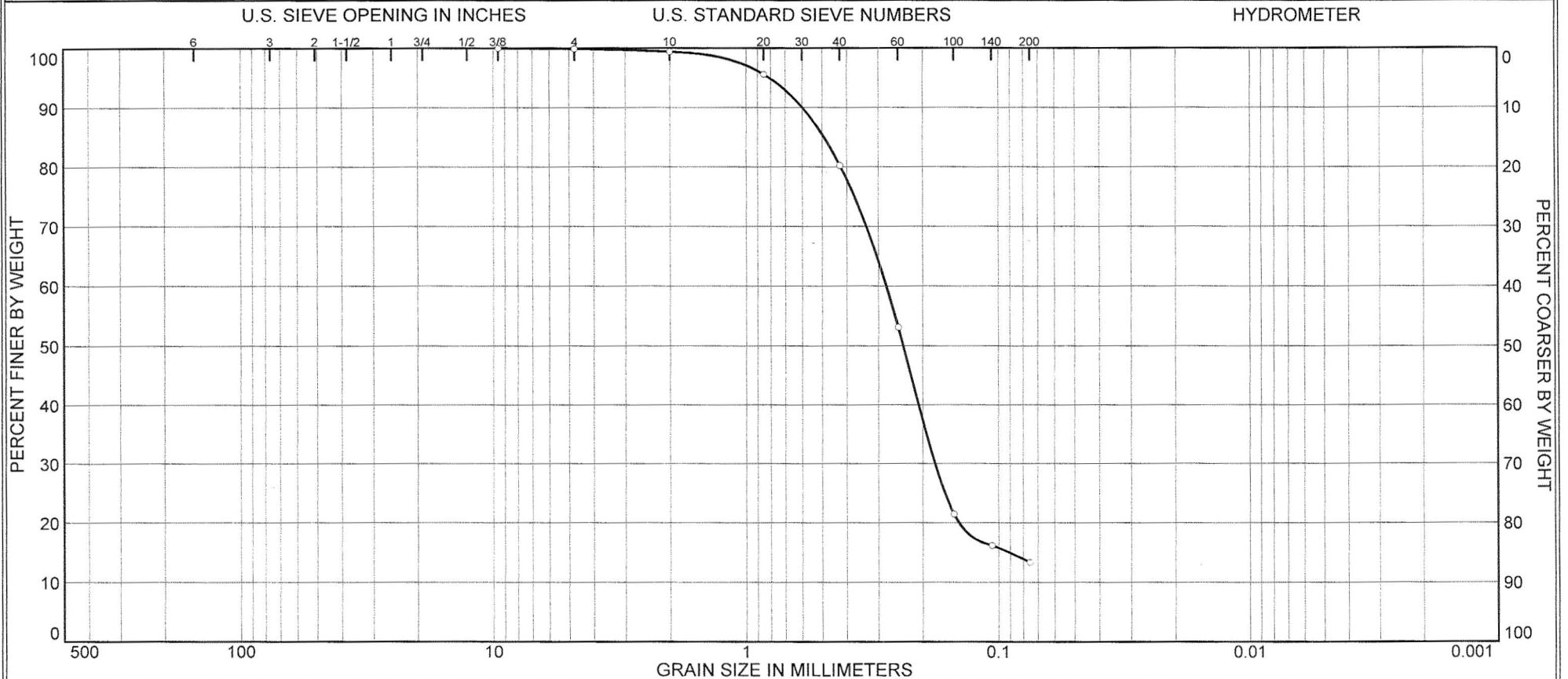
	Initial	
Dry sample and tare=	208.03	
Tare =	70.24	
Dry sample weight =	137.79	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.23	99.8
# 10	0.93	99.3
# 20	6.19	95.5
# 40	27.76	79.9
# 60	63.82	53.7
# 100	107.57	21.9
# 140	115.27	16.3
# 200	118.85	13.7

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL = 0.2** (**% coarse =** **% fine = 0.2**)
% SAND = 86.1 (**% coarse = 0.5** **% medium = 19.4** **% fine = 66.2**)
% FINES = 13.7

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	0.5	19.2	66.9	13.3	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G21-4	G21-4	235.35'	N/A		Red Silty sand	7.8		

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 G21-4
Sample No.: G21-4
Elev. or Depth: 235.35' **Sample Length(in./cm.):** N/A
Location: G21-4
Description: Red Silty sand
Date: N/A **Natural Moisture:** 7.8
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: MD/SW Reviewed by: MC

Mechanical Analysis Data

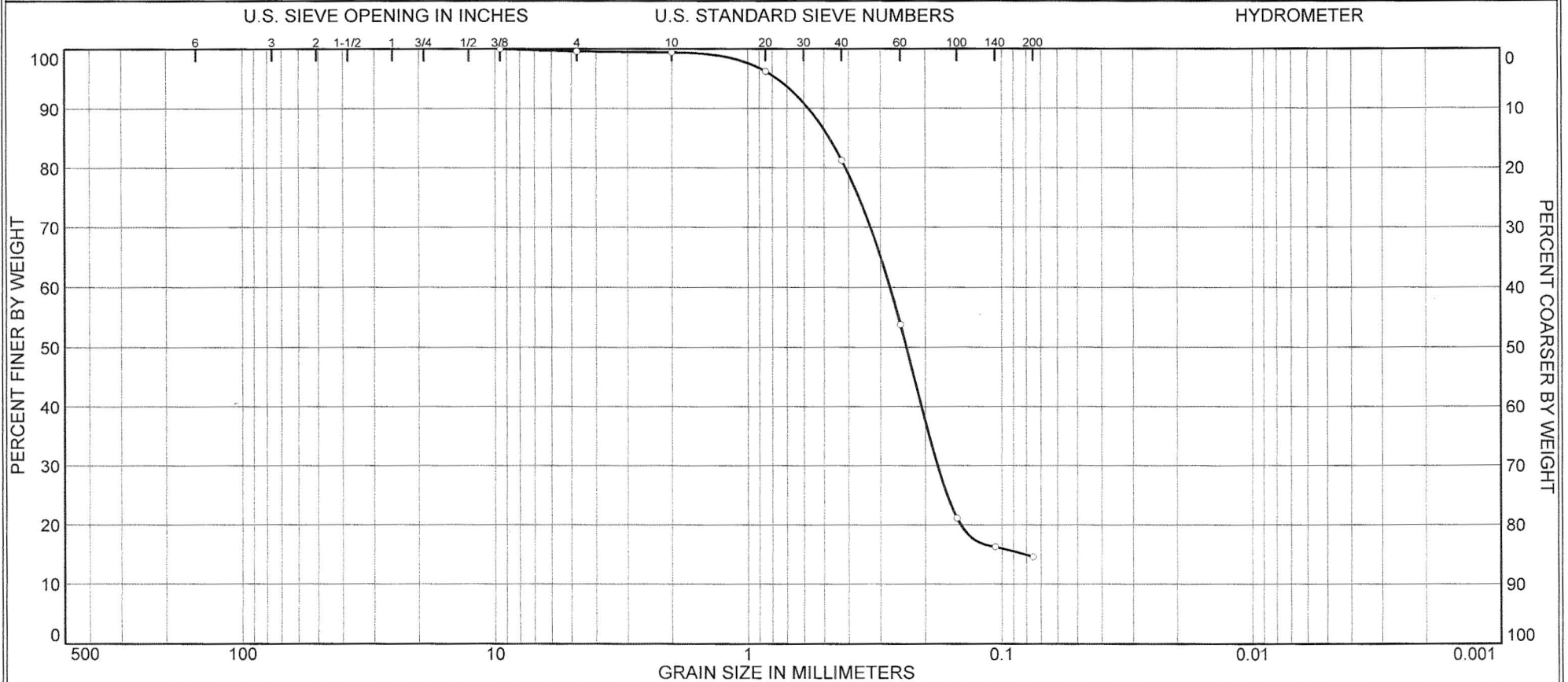
	Initial	
Dry sample and tare=	200.76	
Tare =	64.27	
Dry sample weight =	136.49	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.13	99.9
# 10	0.86	99.4
# 20	6.00	95.6
# 40	27.05	80.2
# 60	64.00	53.1
# 100	107.24	21.4
# 140	114.57	16.1
# 200	118.32	13.3

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL = 0.1** (**% coarse =** **% fine = 0.1**)
% SAND = 86.6 (**% coarse = 0.5** **% medium = 19.2** **% fine = 66.9**)
% FINES = 13.3

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	0.4	0.2	18.2	66.7	14.5	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G22A	G22A-1	235.89'	N/A		Red Silty sand	8.0		

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 G22A
Sample No.: G22A-1
Elev. or Depth: 235.89' **Sample Length(in./cm.):** N/A
Location: G22A-1
Description: Red Silty sand
Date: N/A **Natural Moisture:** 8.0
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: MD/SW Reviewed by: MC

Mechanical Analysis Data

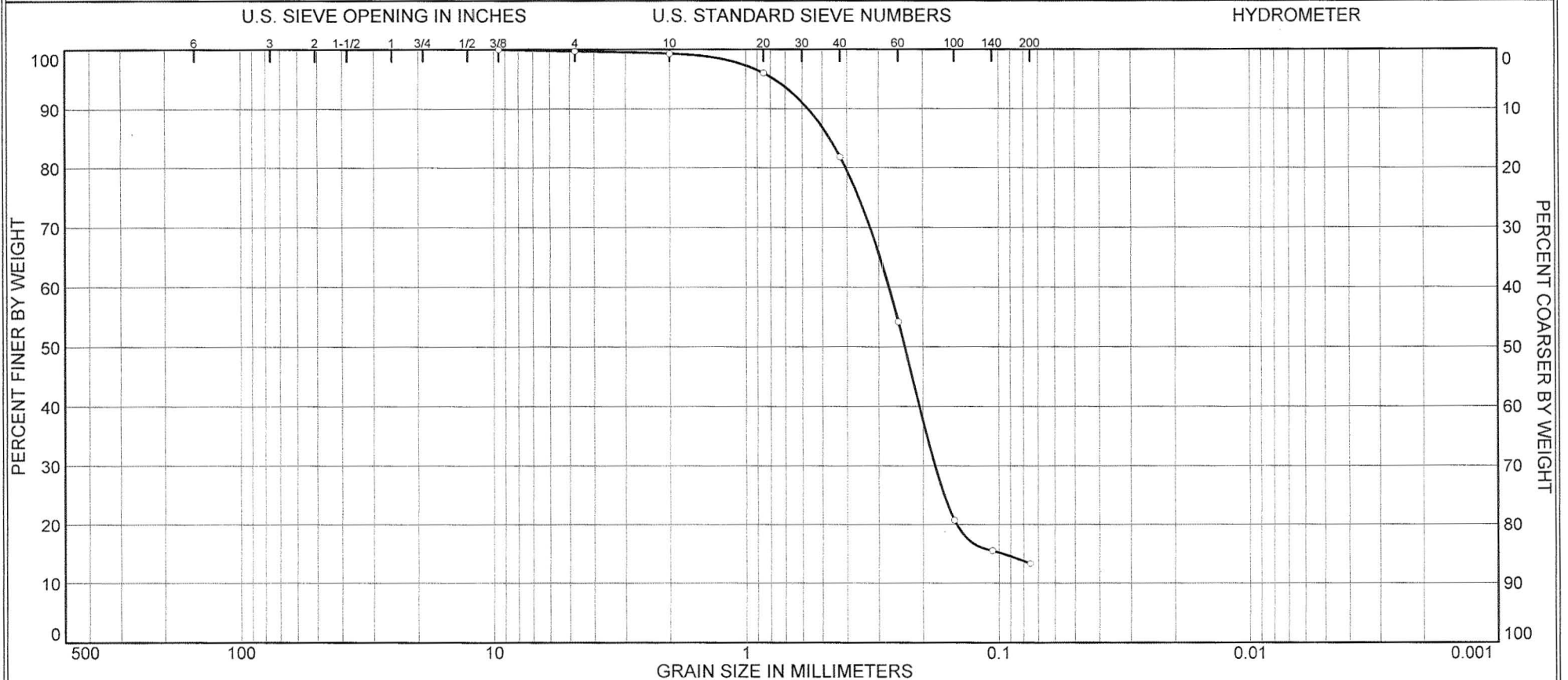
	Initial	
Dry sample and tare=	200.23	
Tare =	64.34	
Dry sample weight =	135.89	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.48	99.6
# 10	0.87	99.4
# 20	5.10	96.2
# 40	25.58	81.2
# 60	62.79	53.8
# 100	107.16	21.1
# 140	113.87	16.2
# 200	116.15	14.5

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL = 0.4** (**% coarse =** **% fine = 0.4**)
% SAND = 85.1 (**% coarse = 0.2** **% medium = 18.2** **% fine = 66.7**)
% FINES = 14.5

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	0.4	17.5	68.5	13.3	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G22A	G22A-2	235.94'	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 SNOG
Project: Vogtle Units 3 & 4 Test Pad Project
Project Number: 6141-06-0286.54

Sample Data

Source: Test Pad Backfill G22A
Sample No.: G22A-2
Elev. or Depth: 235.94' **Sample Length(in./cm.):** N/A
Location: G22A-2
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

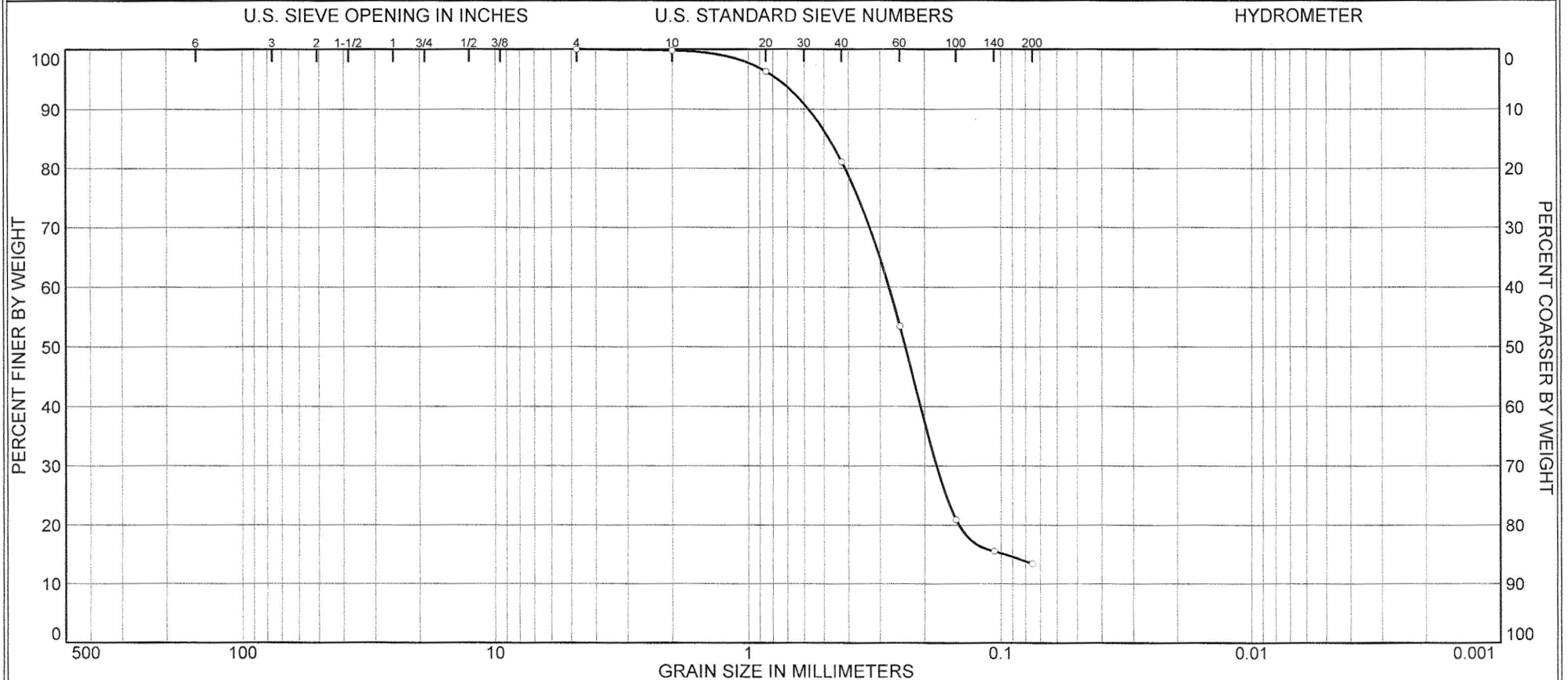
	Initial	
Dry sample and tare=	201.89	
Tare =	64.15	
Dry sample weight =	137.74	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.42	99.7
# 10	0.98	99.3
# 20	5.54	96.0
# 40	25.07	81.8
# 60	63.02	54.2
# 100	109.27	20.7
# 140	116.33	15.5
# 200	119.39	13.3

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL = 0.3** (**% coarse =** **% fine = 0.3**)
% SAND = 86.4 (**% coarse = 0.4** **% medium = 17.5** **% fine = 68.5**)
% FINES = 13.3

D85= 0.47 D60= 0.27 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	0.2	18.7	67.7	13.4	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G22A	G22A-3	235.81'	N/A		Red Silty sand	7.7		

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 G22A
Sample No.: G22A-3
Elev. or Depth: 235.81' **Sample Length(in./cm.):** N/A
Location: G22A-3
Description: Red Silty sand
Date: N/A **Natural Moisture:** 7.7
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: MD/SW Reviewed by: MC

Mechanical Analysis Data

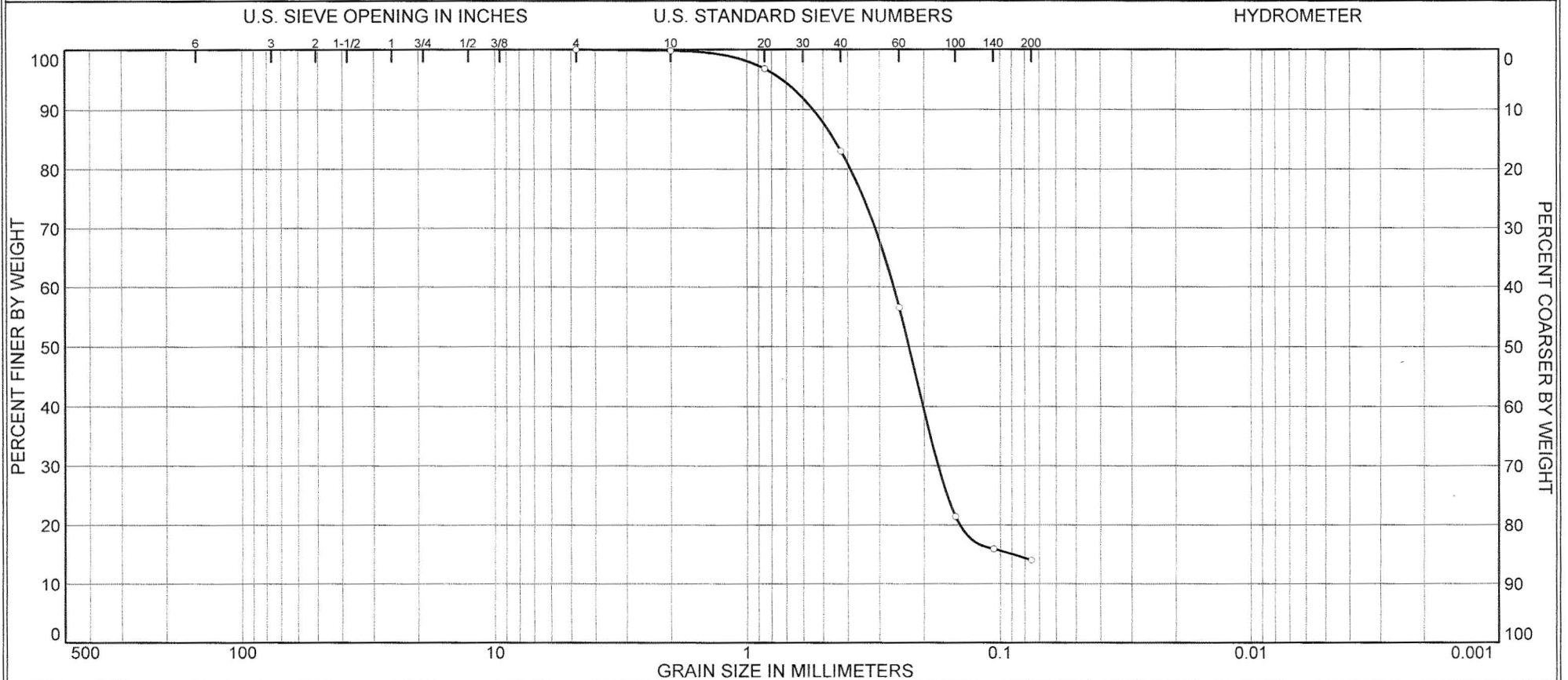
	Initial	
Dry sample and tare=	211.59	
Tare =	70.17	
Dry sample weight =	141.42	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.29	99.8
# 20	5.26	96.3
# 40	26.74	81.1
# 60	65.72	53.5
# 100	111.90	20.9
# 140	119.56	15.5
# 200	122.46	13.4

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 86.6 (% coarse = 0.2 % medium = 18.7 % fine = 67.7)
% FINES = 13.4

D85= 0.48 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	0.2	16.8	69.0	14.0	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G22A	G22A-4	235.89'	N/A	SM	Red Silty sand	7.4	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 G22A
Sample No.: G22A-4
Elev. or Depth: 235.89' **Sample Length(in./cm.):** N/A
Location: G22A-4
Description: Red Silty sand
Date: N/A **Natural Moisture:** 7.4
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=	205.62	
Tare =	64.30	
Dry sample weight =	141.32	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.35	99.8
# 20	4.47	96.8
# 40	24.06	83.0
# 60	61.46	56.5
# 100	111.01	21.4
# 140	118.92	15.9
# 200	121.60	14.0

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 86.0 (% coarse = 0.2 % medium = 16.8 % fine = 69.0)
% FINES = 14.0

D85= 0.45 D60= 0.26 D50= 0.23
D30= 0.18 D15= 0.09