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 G28
Sample No.: G28-2
Elev. or Depth: 238.87' **Sample Length(in./cm.):** N/A
Location: G28-2
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=	203.89
Tare =	64.12
Dry sample weight =	139.77

Tare for cumulative weight retained= .00

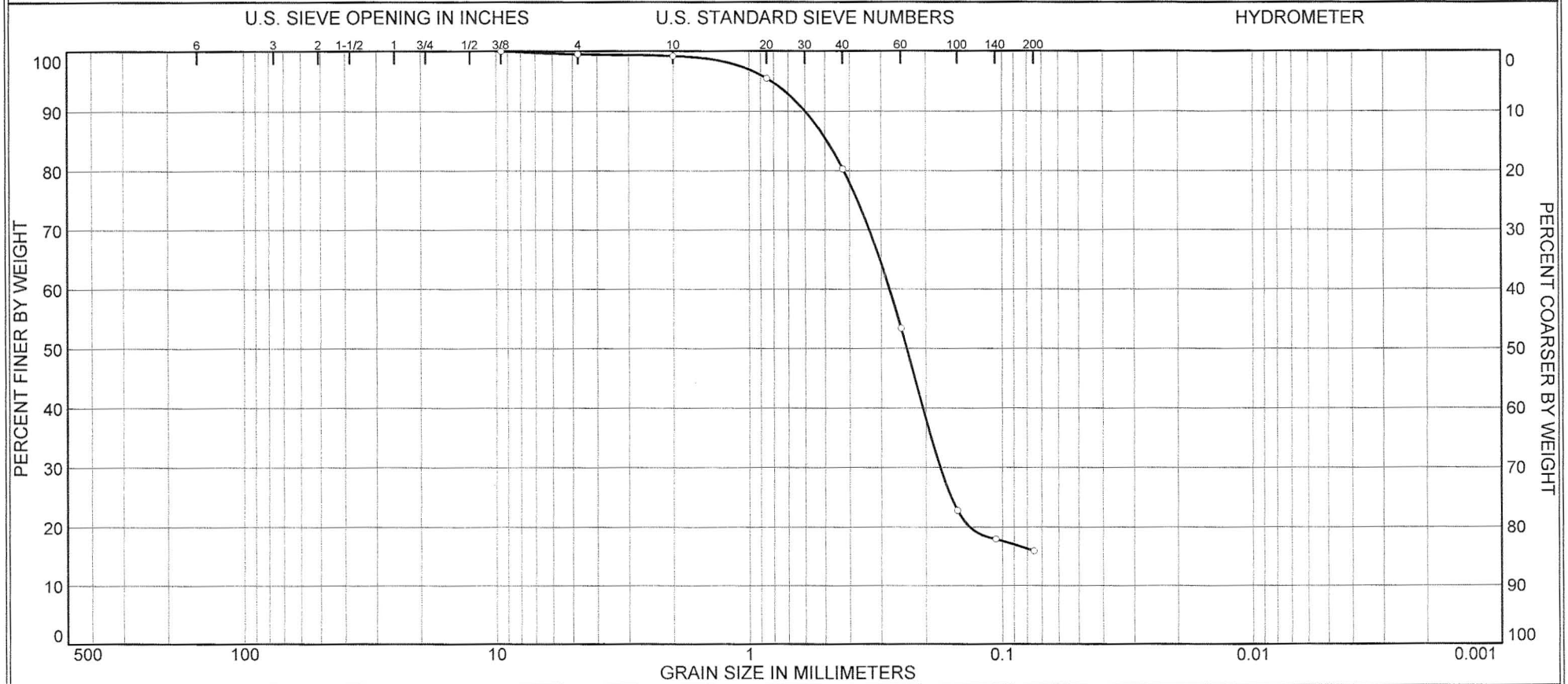
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.76	99.5
# 20	6.09	95.6
# 40	27.71	80.2
# 60	65.58	53.1
# 100	108.84	22.1
# 140	115.65	17.3
# 200	118.77	15.0

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL =
% SAND = 85.0 (% coarse = 0.5 % medium = 19.3 % fine = 65.2)
% FINES = 15.0

D_{85}= 0.49 D_{60}= 0.28 D_{50}= 0.24
D_{30}= 0.18 D_{15}= 0.08

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.5	0.3	18.9	64.4	15.9	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G28	G28-3	238.97'	N/A		Red Silty sand	8.9		

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

Sample Data

Source: Test Pad Backfill G28
Sample No.: G28-3
Elev. or Depth: 238.97' **Sample Length(in./cm.):** N/A
Location: G28-3
Description: Red Silty sand
Date: N/A **Natural Moisture:** 8.9
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: MD/SW Reviewed by: MC

Mechanical Analysis Data

	Initial
Dry sample and tare=	208.23
Tare =	70.16
Dry sample weight =	138.07

Tare for cumulative weight retained= .00

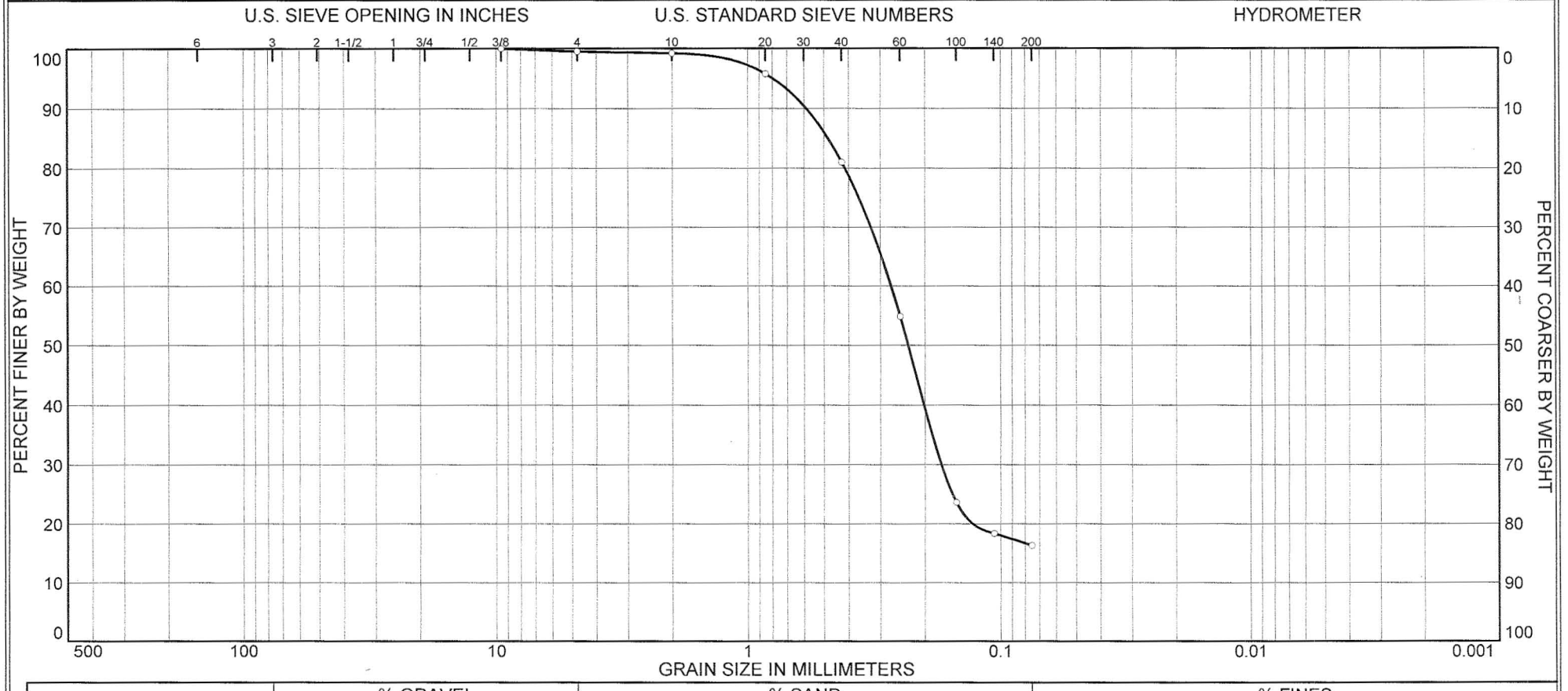
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.66	99.5
# 10	1.06	99.2
# 20	6.17	95.5
# 40	27.21	80.3
# 60	64.34	53.4
# 100	106.62	22.8
# 140	113.38	17.9
# 200	116.15	15.9

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL = 0.5 (% coarse = % fine = 0.5)
% SAND = 83.6 (% coarse = 0.3 % medium = 18.9 % fine = 64.4)
% FINES = 15.9

D_{85}= 0.49 D_{60}= 0.28 D_{50}= 0.24
D_{30}= 0.18

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.5	0.3	18.2	64.7	16.3	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G28	G28-4	239.12'	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: 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 G28
Sample No.: G28-4
Elev. or Depth: 239.12' **Sample Length(in./cm.):** N/A
Location: G28-4
Description: Red Silty sand
Date: N/A **Natural Moisture:** 10.2
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: MD/SW Reviewed by: MC

Mechanical Analysis Data

	Initial
Dry sample and tare=	215.03
Tare =	64.29
Dry sample weight =	150.74

Tare for cumulative weight retained= .00

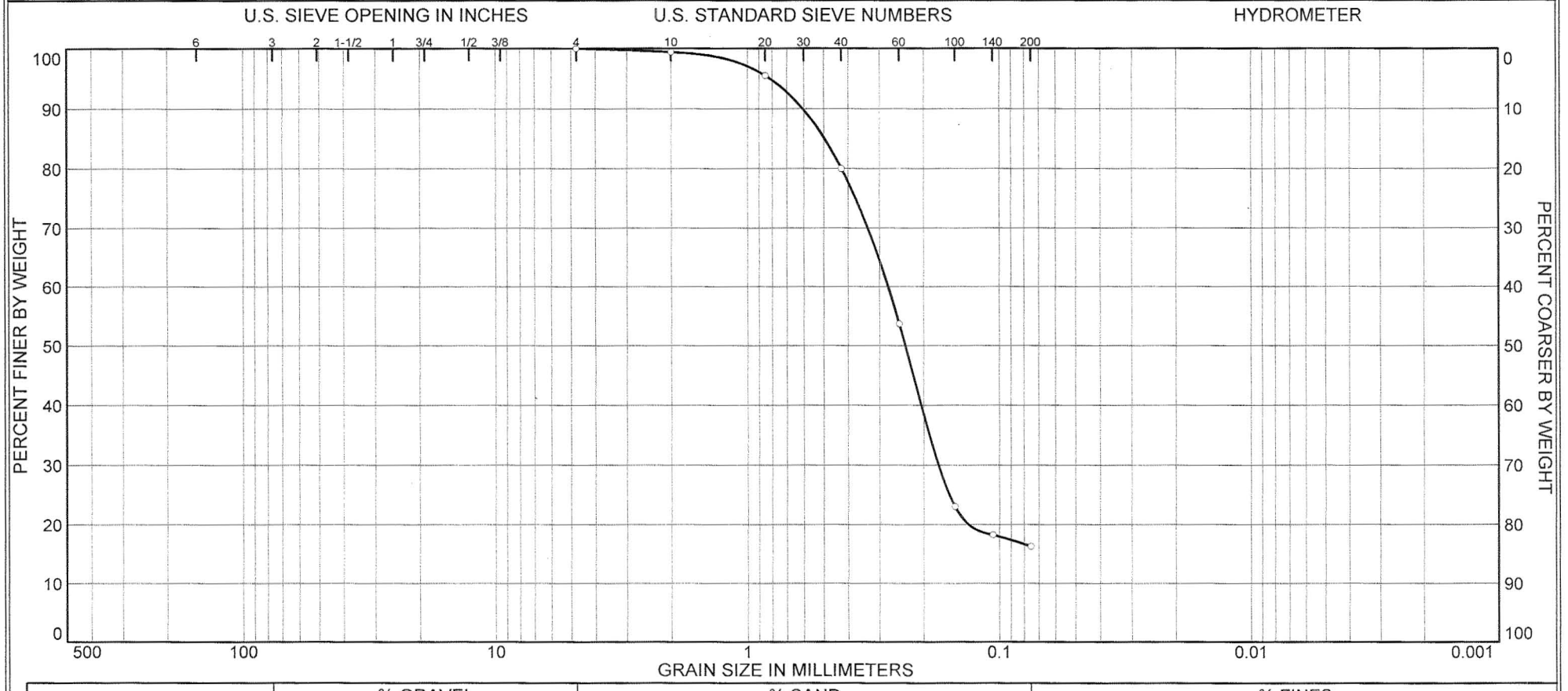
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.80	99.5
# 10	1.14	99.2
# 20	6.36	95.8
# 40	28.65	81.0
# 60	68.10	54.8
# 100	115.20	23.6
# 140	123.21	18.3
# 200	126.24	16.3

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =** 0.5 **(% coarse =** **% fine =** 0.5**)**
% SAND = 83.2 **(% coarse =** 0.3 **% medium =** 18.2 **% fine =** 64.7**)**
% FINES = 16.3

D_{85}= 0.48 D_{60}= 0.27 D_{50}= 0.23
D_{30}= 0.17

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.6	19.4	63.7	16.3	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G29	G29-1	239.40'	N/A	SM	Red Silty sand	9.9	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 G29
Sample No.: G29-1
Elev. or Depth: 239.40' **Sample Length(in./cm.):** N/A
Location: G29-1
Description: Red Silty sand
Date: N/A **Natural Moisture:** 9.9
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=	204.58
Tare =	64.31
Dry sample weight =	140.27

Tare for cumulative weight retained= .00

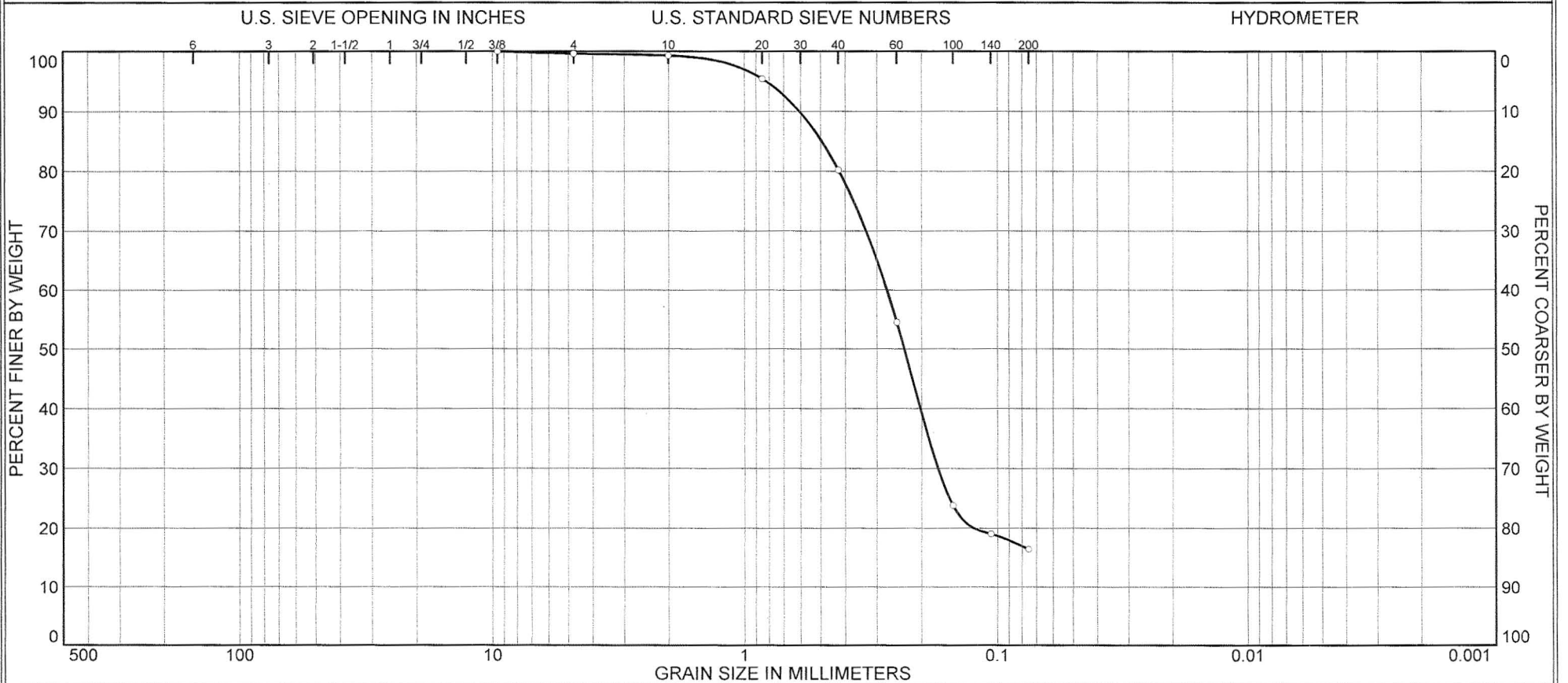
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.84	99.4
# 20	6.31	95.5
# 40	28.08	80.0
# 60	64.99	53.7
# 100	107.98	23.0
# 140	114.74	18.2
# 200	117.43	16.3

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL =
% SAND = 83.7 (% coarse = 0.6 % medium = 19.4 % fine = 63.7)
% FINES = 16.3

D_{85}= 0.50 D_{60}= 0.28 D_{50}= 0.24
D_{30}= 0.17

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.4	0.3	19.1	63.8	16.4	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G29	G29-2	239.39'	N/A		Red Silty sand	10.6		

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 G29
Sample No.: G29-2
Elev. or Depth: 239.39' **Sample Length(in./cm.):** N/A
Location: G29-2
Description: Red Silty sand
Date: N/A **Natural Moisture:** 10.6
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: SW/MD Reviewed by: MC

Mechanical Analysis Data

	Initial
Dry sample and tare=	202.82
Tare =	64.12
Dry sample weight =	138.70

Tare for cumulative weight retained= .00

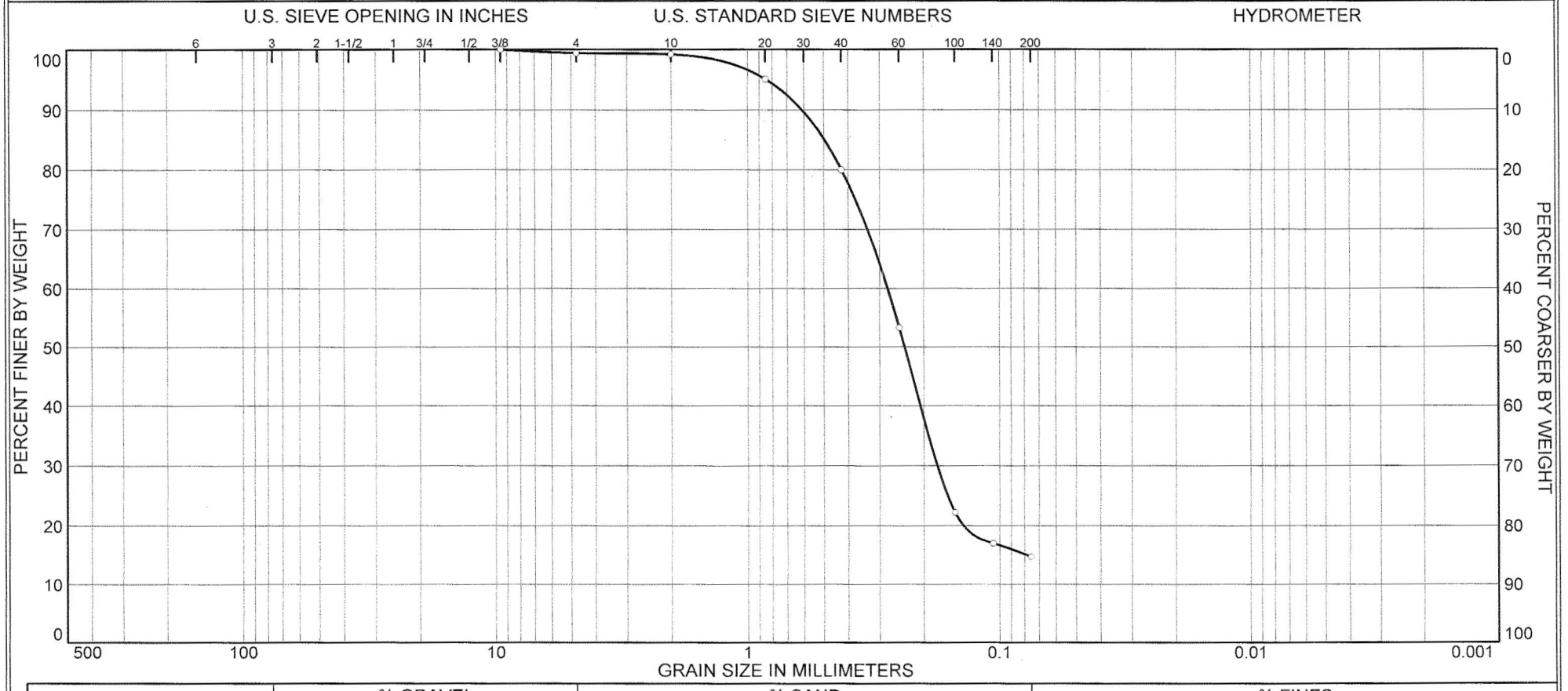
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.52	99.6
# 10	1.04	99.3
# 20	6.40	95.4
# 40	27.52	80.2
# 60	63.07	54.5
# 100	105.69	23.8
# 140	112.28	19.0
# 200	115.96	16.4

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL = 0.4 (% coarse = % fine = 0.4)
% SAND = 83.2 (% coarse = 0.3 % medium = 19.1 % fine = 63.8)
% FINES = 16.4

D_{85}= 0.49 D_{60}= 0.27 D_{50}= 0.23
D_{30}= 0.17

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.6	0.2	19.2	65.3	14.7	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G29	G29-3	239.41'	N/A		Red Silty sand	10.0		

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

Sample Data

Source: Test Pad Backfill G29
Sample No.: G29-3
Elev. or Depth: 239.41' **Sample Length(in./cm.):** N/A
Location: G29-3
Description: Red Silty sand
Date: N/A **Natural Moisture:** 10.0
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: MD/SW Reviewed by: MC

Mechanical Analysis Data

	Initial
Dry sample and tare=	206.10
Tare =	70.15
Dry sample weight =	135.95

Tare for cumulative weight retained= .00

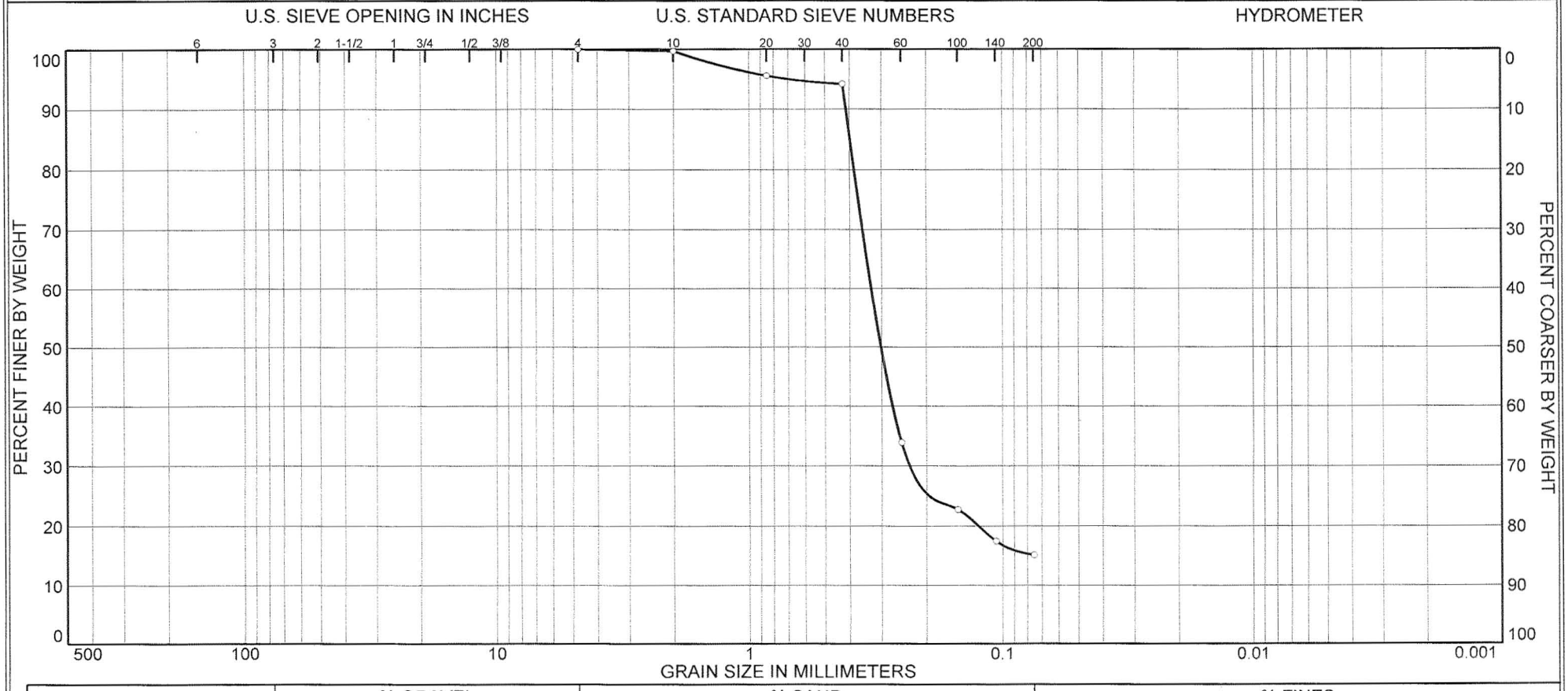
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.83	99.4
# 10	1.14	99.2
# 20	6.60	95.1
# 40	27.21	80.0
# 60	63.43	53.3
# 100	105.83	22.2
# 140	112.86	17.0
# 200	115.92	14.7

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =** 0.6 **(% coarse =** **% fine =** 0.6)
% SAND = 84.7 **(% coarse =** 0.2 **% medium =** 19.2 **% fine =** 65.3)
% FINES = 14.7

D_{85}= 0.50 D_{60}= 0.28 D_{50}= 0.24
D_{30}= 0.18 D_{15}= 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	5.5	79.1	15.1	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G29	G29-4	239.49'	N/A		Red Silty sand	9.7		

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

Sample Data

Source: Test Pad Backfill G29
Sample No.: G29-4
Elev. or Depth: 239.49' **Sample Length(in./cm.):** N/A
Location: G29-4
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=	207.74
Tare =	64.27
Dry sample weight =	143.47

Tare for cumulative weight retained= .00

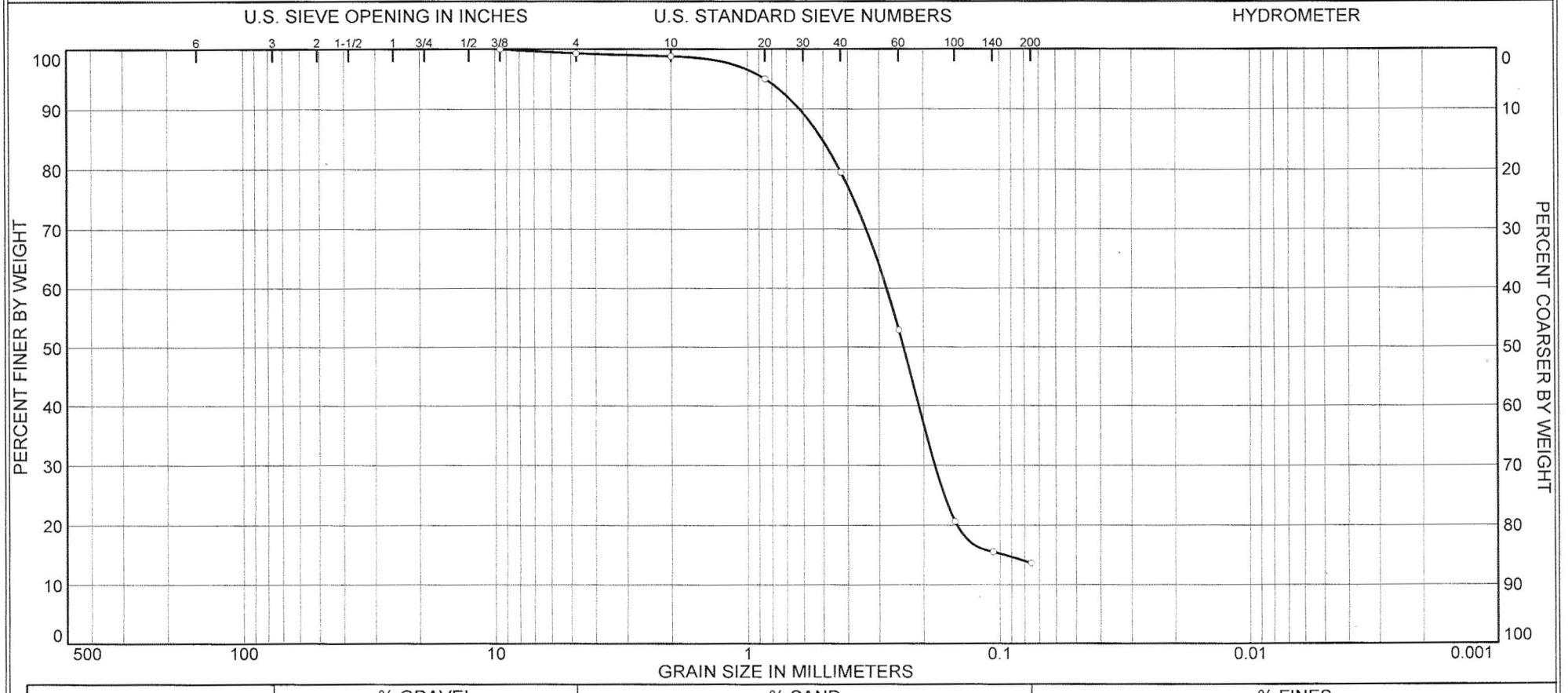
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.46	99.7
# 20	6.30	95.6
# 40	8.38	94.2
# 60	94.83	33.9
# 100	110.86	22.7
# 140	118.44	17.4
# 200	121.78	15.1

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL =
% SAND = 84.9 (% coarse = 0.3 % medium = 5.5 % fine = 79.1)
% FINES = 15.1

D_{85}= 0.40 D_{60}= 0.33 D_{50}= 0.30
D_{30}= 0.23

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.7	0.5	19.3	65.9	13.6	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G30	G30-1	240.06'	N/A		Red Silty sand	11.5		

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 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 G30
Sample No.: G30-1
Elev. or Depth: 240.06' **Sample Length(in./cm.):** N/A
Location: G30-1
Description: Red Silty sand
Date: 1/16/08 **Natural Moisture:** 11.5
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: SW Reviewed by: MC

Mechanical Analysis Data

	Initial
Dry sample and tare=	203.57
Tare =	64.29
Dry sample weight =	139.28

Tare for cumulative weight retained= .00

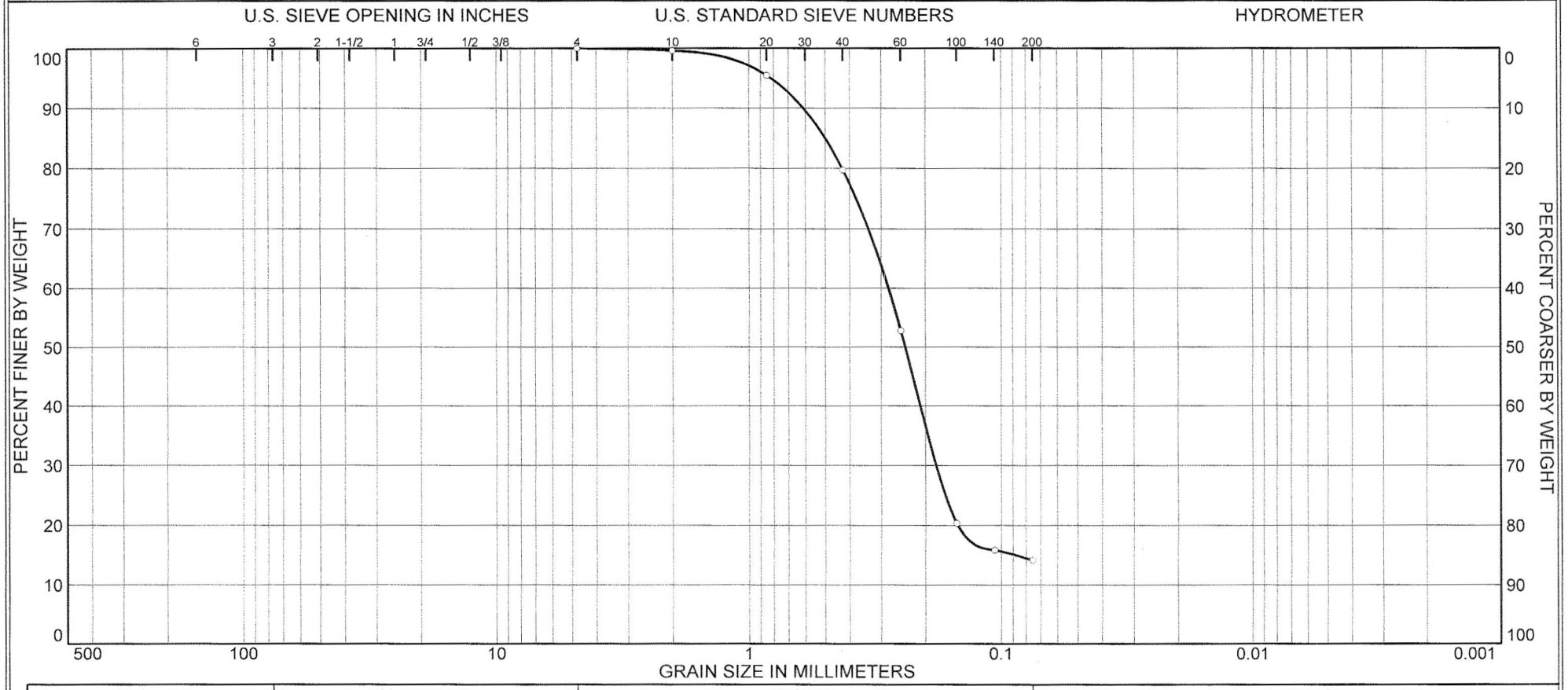
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	1.01	99.3
# 10	1.69	98.8
# 20	7.01	95.0
# 40	28.51	79.5
# 60	65.65	52.9
# 100	110.64	20.6
# 140	117.76	15.5
# 200	120.32	13.6

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL = 0.7 (% coarse = % fine = 0.7)
% SAND = 85.7 (% coarse = 0.5 % medium = 19.3 % fine = 65.9)
% FINES = 13.6

D_{85}= 0.51 D_{60}= 0.28 D_{50}= 0.24
D_{30}= 0.18 D_{15}= 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	19.9	65.6	14.1	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G30	G30-2	240.05'	N/A		Red Silty sand	13.1		

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 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 G30
Sample No.: G30-2
Elev. or Depth: 240.05' **Sample Length(in./cm.):** N/A
Location: G30-2
Description: Red Silty sand
Date: N/A **Natural Moisture:** 13.1
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: SW Reviewed by: MC

Mechanical Analysis Data

	Initial
Dry sample and tare=	202.01
Tare =	64.11
Dry sample weight =	137.90

Tare for cumulative weight retained= .00

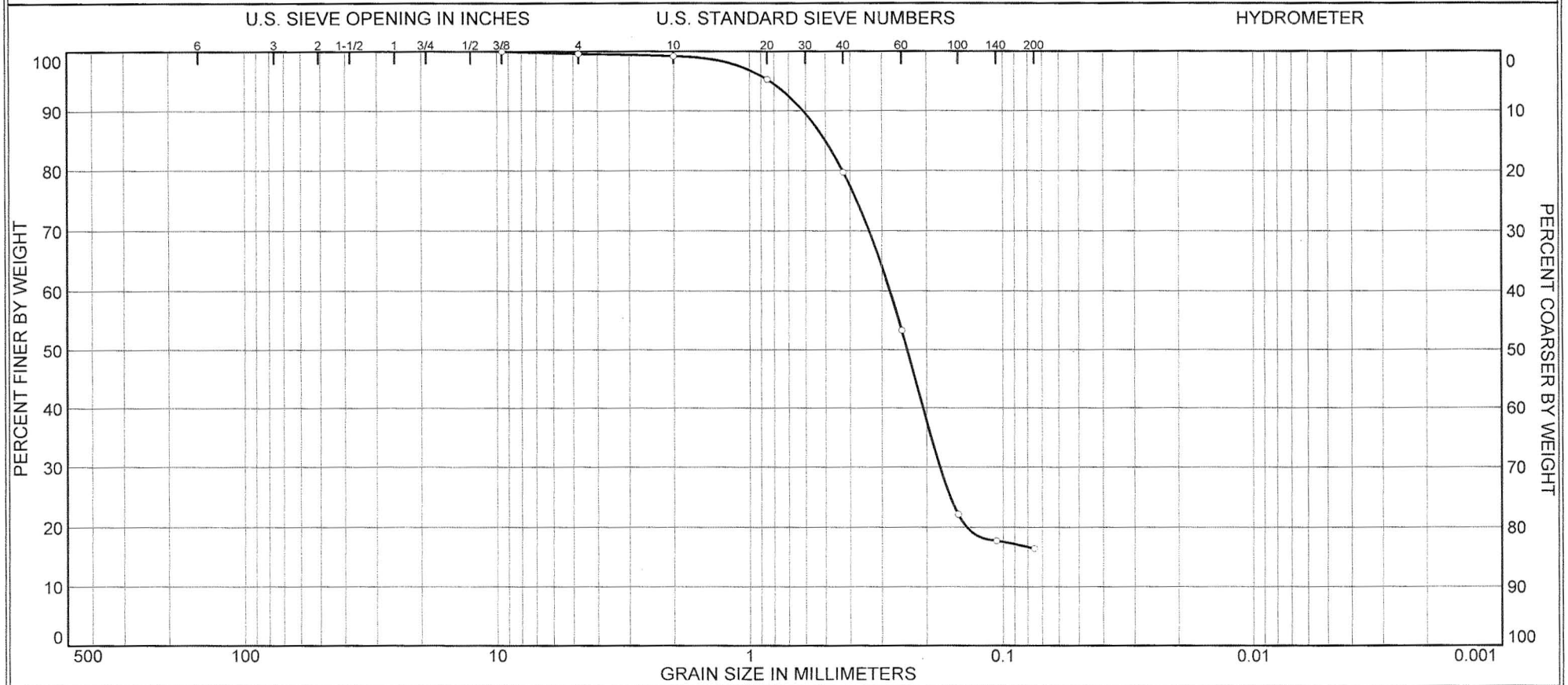
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.53	99.6
# 20	6.27	95.5
# 40	27.99	79.7
# 60	65.04	52.8
# 100	109.86	20.3
# 140	116.17	15.8
# 200	118.50	14.1

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL =
% SAND = 85.9 (% coarse = 0.4 % medium = 19.9 % fine = 65.6)
% FINES = 14.1

D_{85}= 0.50 D_{60}= 0.28 D_{50}= 0.24
D_{30}= 0.18 D_{15}= 0.09

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.4	0.4	19.5	63.3	16.4	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G30	G30-3	240.06'	N/A	SM	Red Silty sand	10.6	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 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 G30
Sample No.: G30-3
Elev. or Depth: 240.06' **Sample Length(in./cm.):** N/A
Location: G30-3
Description: Red Silty sand
Date: N/A **Natural Moisture:** 10.6
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=	206.78
Tare =	70.14
Dry sample weight =	136.64

Tare for cumulative weight retained= .00

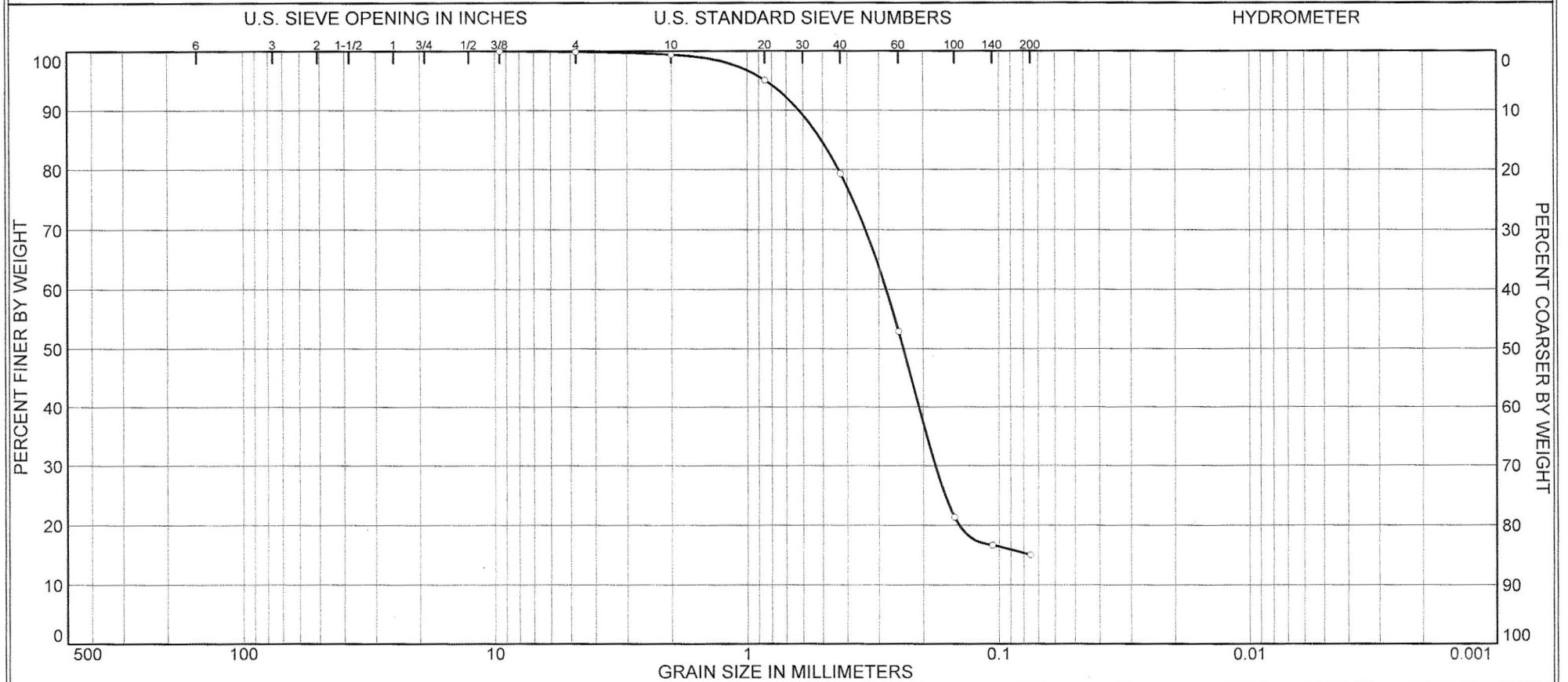
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.56	99.6
# 10	1.05	99.2
# 20	6.41	95.3
# 40	27.69	79.7
# 60	63.81	53.3
# 100	106.46	22.1
# 140	112.46	17.7
# 200	114.22	16.4

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =** 0.4 **(% coarse =** **% fine =** 0.4)
% SAND = 83.2 **(% coarse =** 0.4 **% medium =** 19.5 **% fine =** 63.3)
% FINES = 16.4

D_{85}= 0.50 D_{60}= 0.28 D_{50}= 0.24
D_{30}= 0.18

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.1	0.5	20.1	64.3	15.0	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G30	G30-4	239.99'	N/A		Red Silty sand	9.3		

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

Sample Data

Source: Test Pad Backfill G30
Sample No.: G30-4
Elev. or Depth: 239.99' **Sample Length(in./cm.):** N/A
Location: G30-4
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=	201.48
Tare =	64.26
Dry sample weight =	137.22

Tare for cumulative weight retained= .00

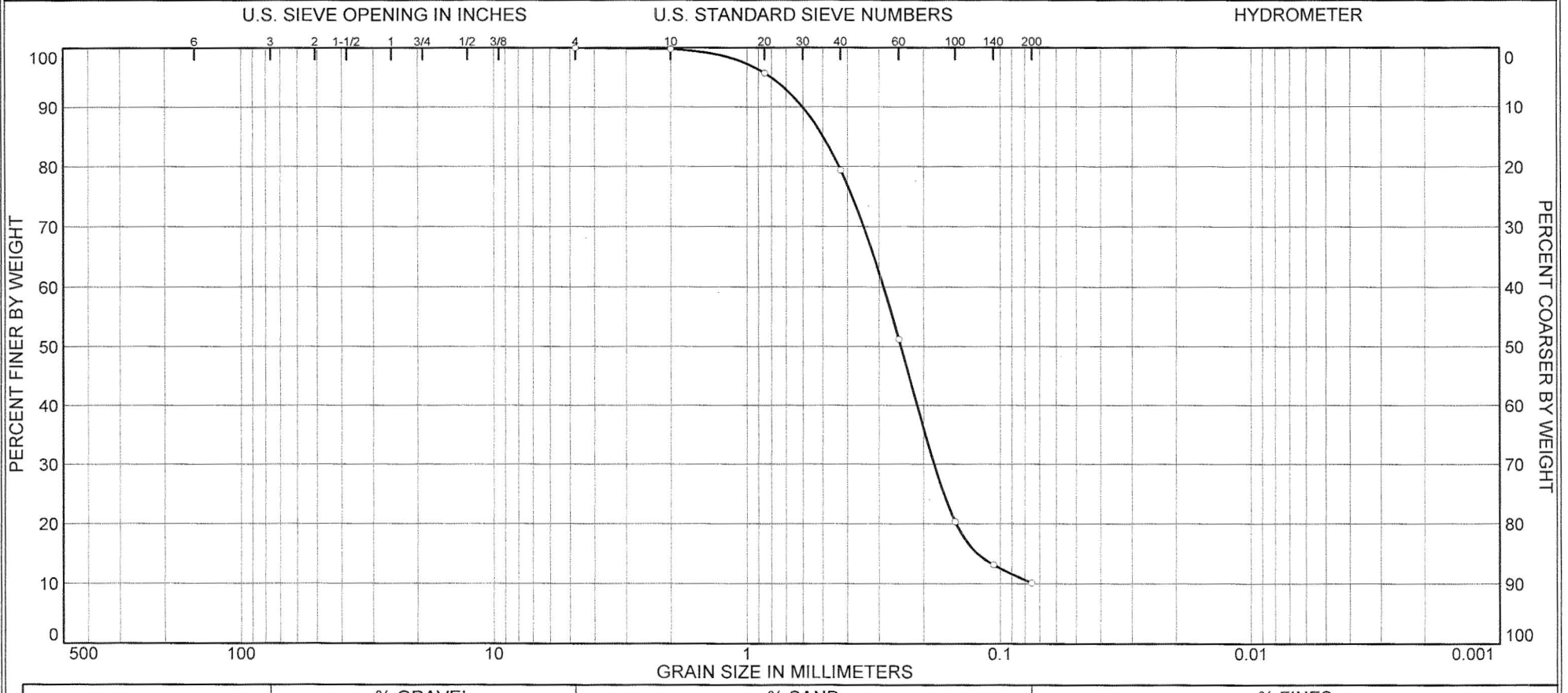
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.19	99.9
# 10	0.86	99.4
# 20	6.66	95.1
# 40	28.43	79.3
# 60	64.69	52.9
# 100	107.93	21.3
# 140	114.43	16.6
# 200	116.66	15.0

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =** 0.1 **(% coarse =** **% fine =** 0.1)
% SAND = 84.9 **(% coarse =** 0.5 **% medium =** 20.1 **% fine =** 64.3)
% FINES = 15.0

D_{85}= 0.51 D_{60}= 0.28 D_{50}= 0.24
D_{30}= 0.18 D_{15}= 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	20.4	69.3	10.1	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G31	G31-1	240.64'	N/A		Tan Poorly graded sand with silt	6.6		

Client GPC c/o SNOC

Project Vogtle Units 3 & 4 Test Pad Project

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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 G31
Sample No.: G31-1
Elev. or Depth: 240.64' **Sample Length(in./cm.):** N/A
Location: G31-1
Description: Tan Poorly graded sand with silt
Date: N/A **Natural Moisture:** 6.6
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: SW Reviewed by: MC

Mechanical Analysis Data

	Initial
Dry sample and tare=	199.96
Tare =	64.29
Dry sample weight =	135.67

Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.22	99.8
# 20	5.78	95.7
# 40	27.90	79.4
# 60	66.20	51.2
# 100	108.13	20.3
# 140	117.94	13.1
# 200	122.02	10.1

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL =
% SAND = 89.9 (% coarse = 0.2 % medium = 20.4 % fine = 69.3)
% FINES = 10.1

D_{85}= 0.50 D_{60}= 0.29 D_{50}= 0.25
D_{30}= 0.18 D_{15}= 0.12