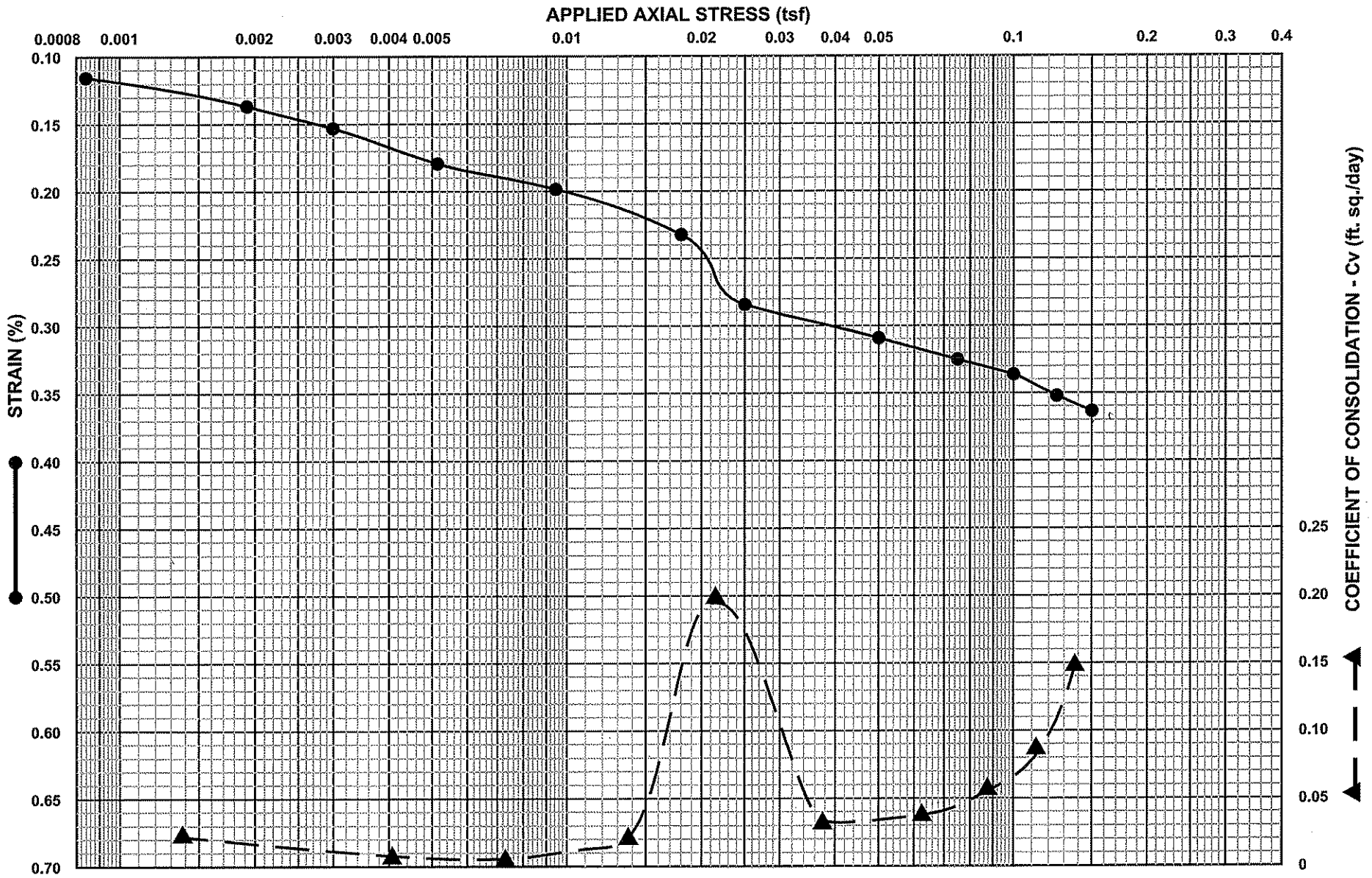
APPENDIX B

LABORATORY TEST RESULTS

Samples were reviewed along with field logs to select those that would be analyzed further. Those selected for laboratory testing included soils that would be exposed and used during grading, and those deemed to be within the influence of the proposed structure. Test results are presented in graphical and tabular form in this Appendix. The tests were conducted in general accordance with the procedures of the American Society for Testing and Materials (ASTM) or other standardized methods as referenced below. Our testing program consisted of the following.

- In situ moisture content and unit dry weight for the tube samples.
- Particle size analysis to classify and evaluate soil composition. The gradation characteristics of the selected samples were made by sieve analysis procedures.
- Consolidation tests to evaluate the compressibility potential of the soil.
- Liquid and plastic limits tests to help classify the soils and to evaluate the plasticity and expansive nature of clayey soils.
- Unconfined compression tests to assess the unconfined shear strength and, hence, the unconfined undrained cohesion of the material.
- Overburden triaxial tests were conducted using the approximate in situ overburden as the confining pressure (K_o) and increasing the deviator stress until the sample failed to obtain the undrained cohesion of the soil.
- Low pressure consolidation tests on fill material from the river and marsh.
- Self-weight consolidation tests on a mixture of materials taken from the marsh area.



CONSOLIDATION TEST

SAMPLE IDENTIFICATION

BORING NO.: Composite #3
DEPTH (feet): B-7, B-8 & B-11
MATERIAL: Lake Hermitage CLAYEY SILT
FILE NO.: 07-L1087

Ardaman & Associates, Inc.
(Formerly STE)

CLASSIFICATION DATA

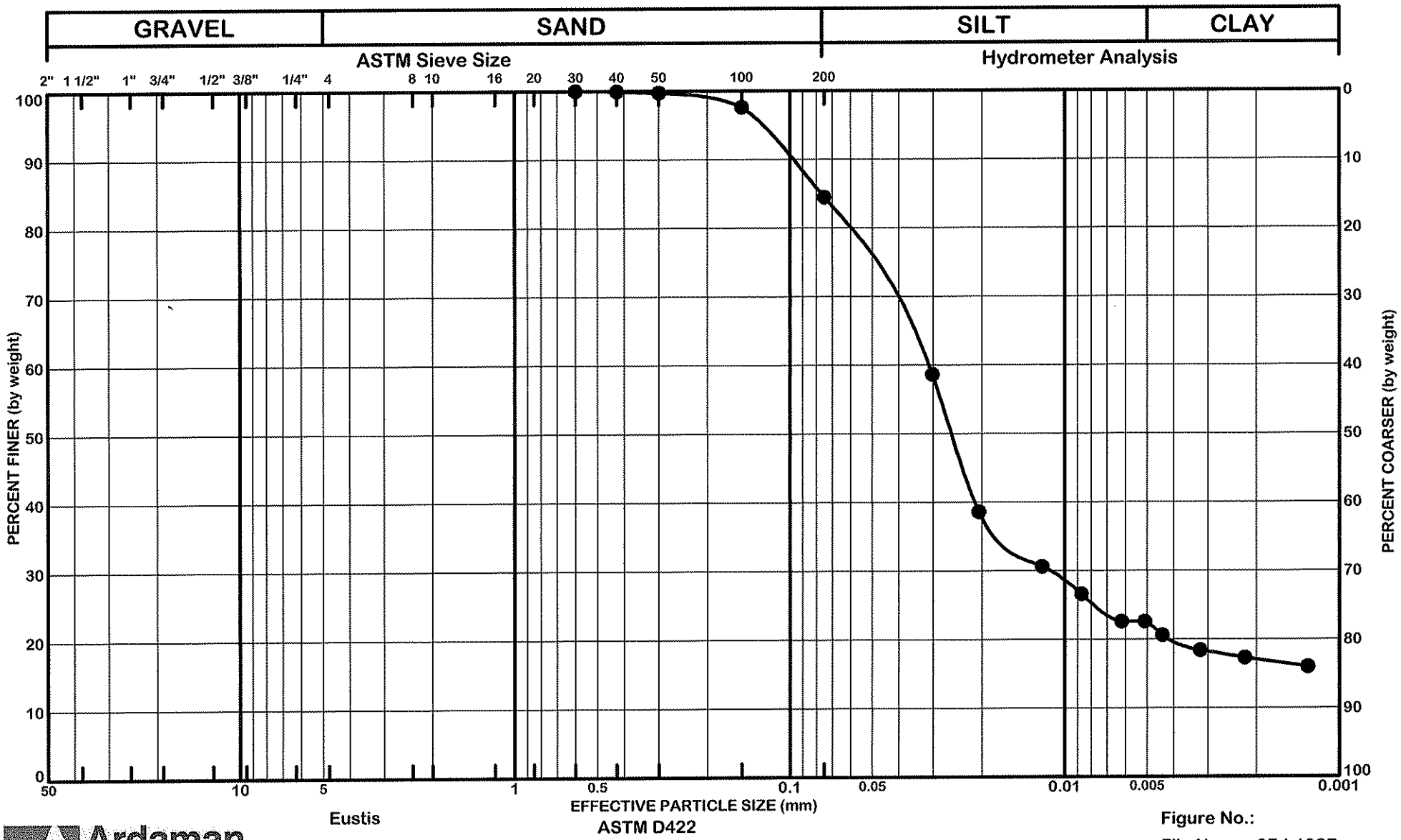
INITIAL MOISTURE CONTENT (%) = 70.0
INITIAL DRY DENSITY (lbs./cu.ft.) = 57.9
FINAL MOISTURE CONTENT (%) = 40.2

FIGURE NO.:

Sample No.	Identification	Gravel (%)	Sand (%)	Silt (%)	Clay (%)
● #3	Composite	0.0	15.5	62.1	22.3

Lake Hermitage
Composite B-7, B-8 B-11

AASHTO Accredited Laboratory
LELAP Certificate No. 02052



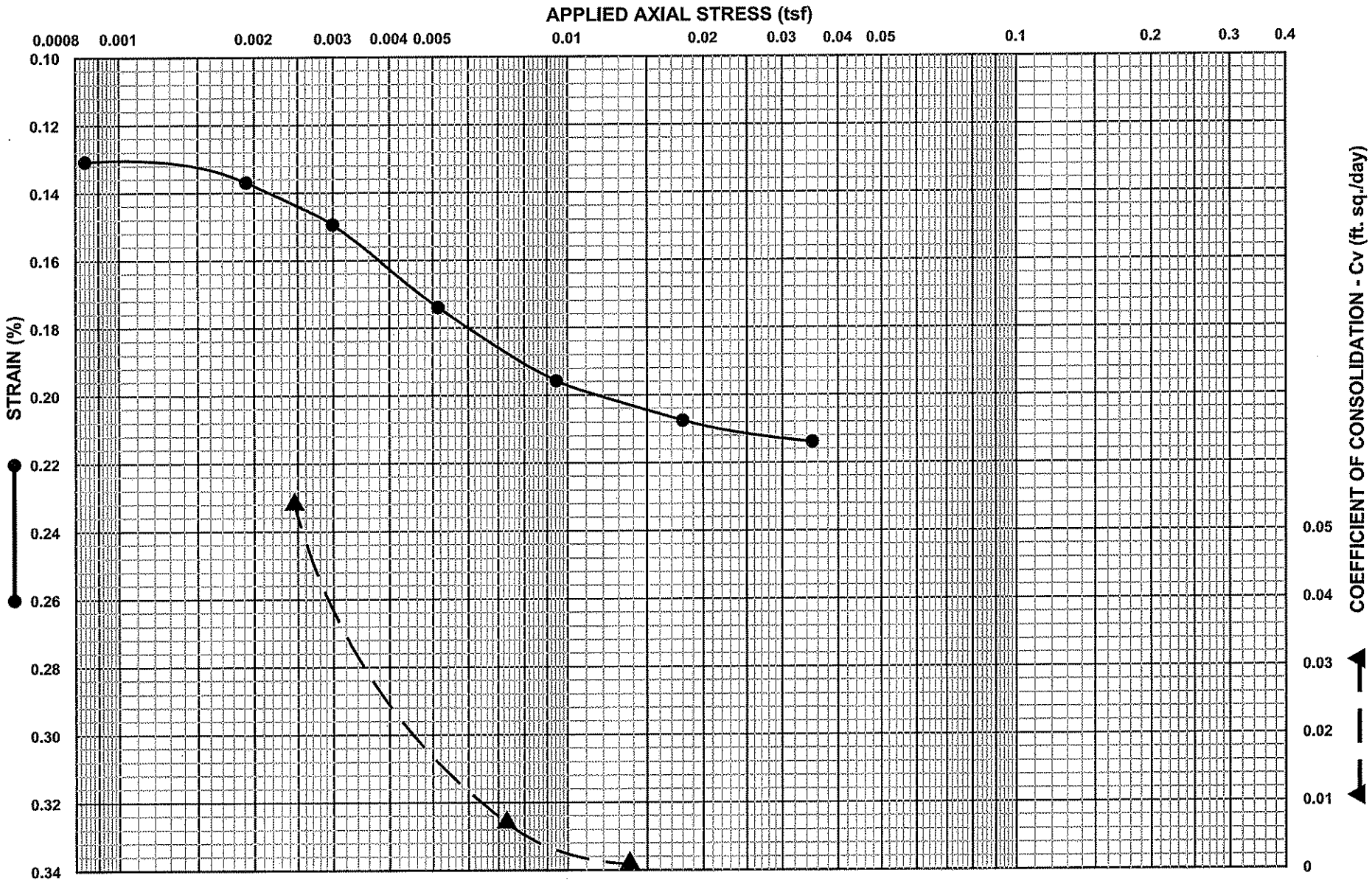
Eustis

Ardaman & Associates, Inc.
(Formerly STE)

GRAIN SIZE ANALYSIS

Figure No.:
File No.: 07-L1087
Date: 05/31/2007

ARD GRAINSIZE01 07-L1087.GPJ GRAINSZ.GDT 06/01/07



SAMPLE IDENTIFICATION

BORING NO.: Composite #4
DEPTH (feet): B-9, B-10 & B-12
MATERIAL: Lake Hermitage CLAYEY SILT
FILE NO.: 07-L1087

CONSOLIDATION TEST

Ardaman & Associates, Inc.
(Formerly STE)

CLASSIFICATION DATA

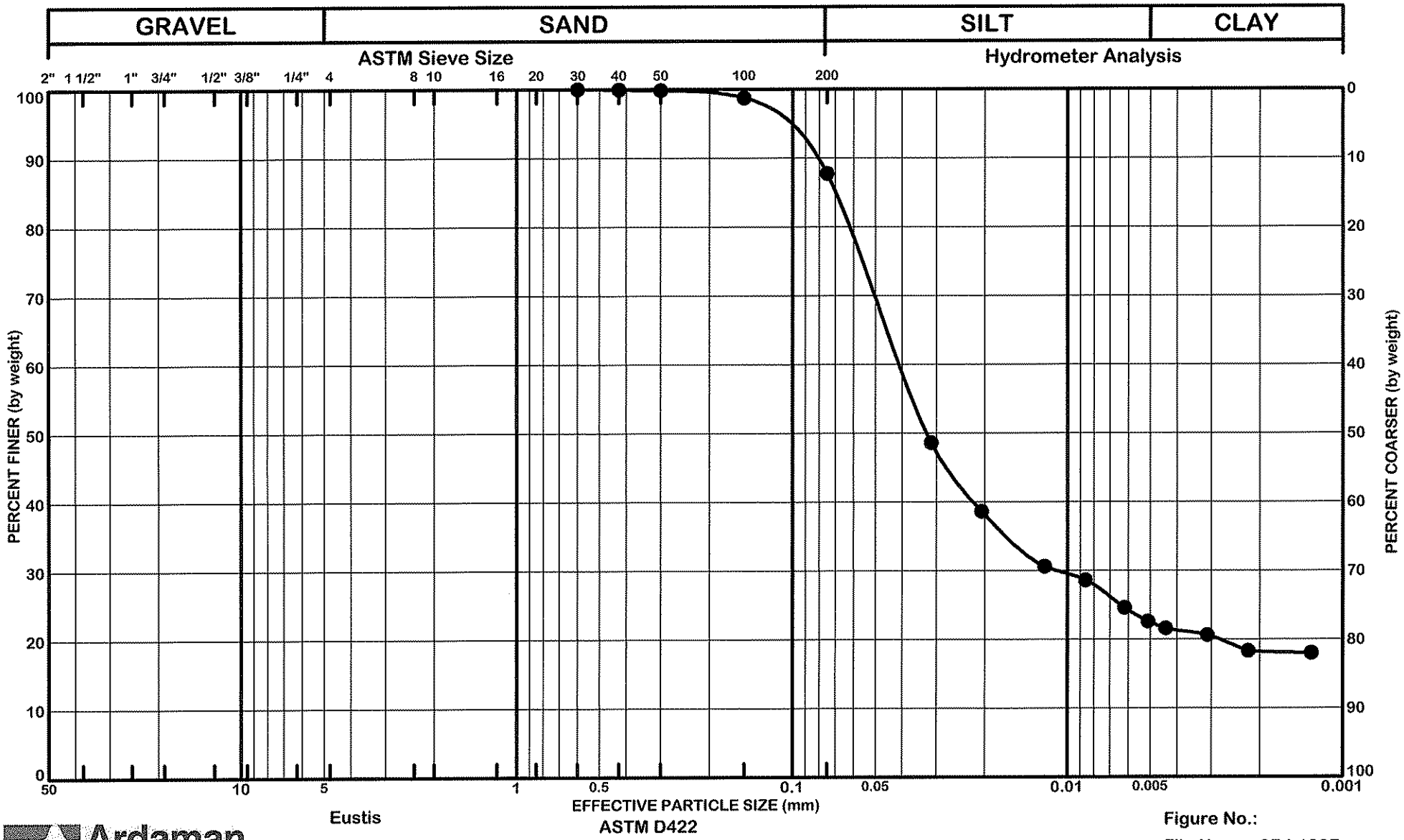
INITIAL MOISTURE CONTENT (%) = 85.8
INITIAL DRY DENSITY (lbs./cu.ft.) = 50.53
FINAL MOISTURE CONTENT (%) = 55.5

FIGURE NO.:

Sample No.	Identification	Gravel (%)	Sand (%)	Silt (%)	Clay (%)
● #4	Composite	0.0	12.3	65.3	22.5

Lake Hermitage
Composite B-9, B-10, B-12

AASHTO Accredited Laboratory
LELAP Certificate No. 02052

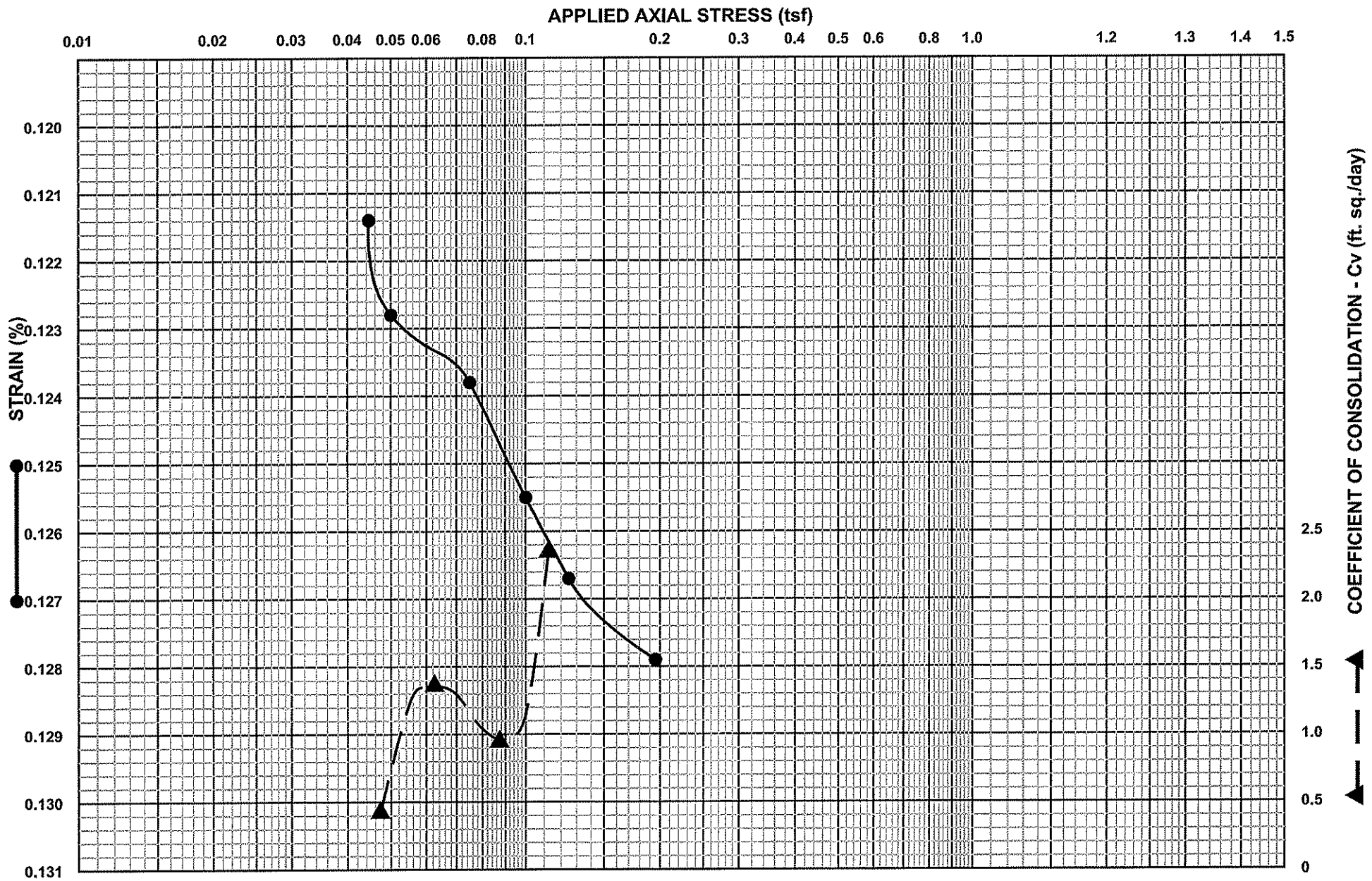


Ardaman & Associates, Inc.
(Formerly STE)

GRAIN SIZE ANALYSIS

Figure No.:
File No.: 07-L1087
Date: 05/31/2007

ARD GRAINSIZE01 07-L1087.GPJ GRAINSZ.GDT 06/01/07



CONSOLIDATION TEST

SAMPLE IDENTIFICATION

BORING NO.: Composite #1
DEPTH (feet): 11-15
MATERIAL: Lake Hermitage SAND
FILE NO.: 07-L1087

Ardaman & Associates, Inc.
(Formerly STE)

CLASSIFICATION DATA

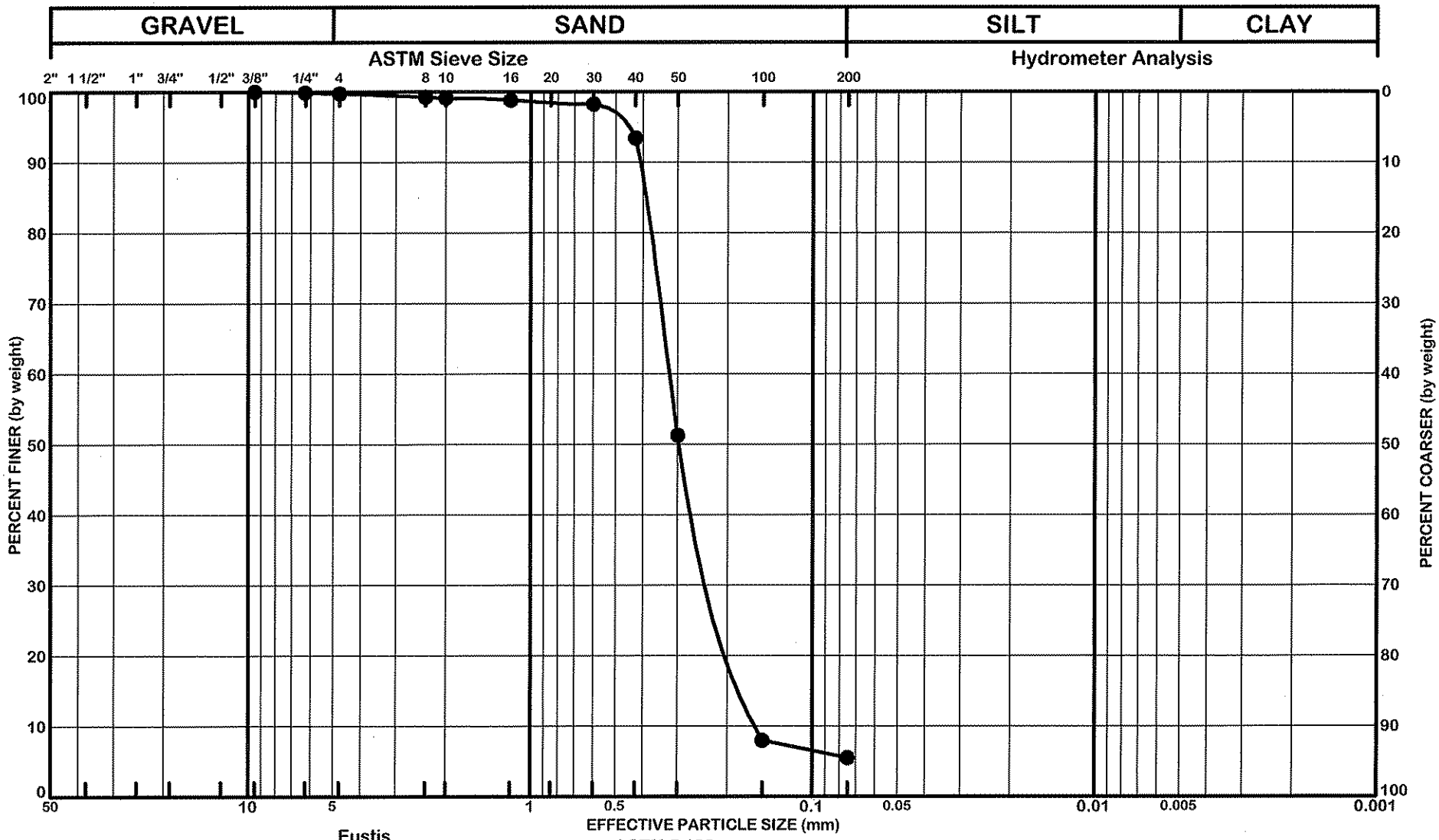
INITIAL MOISTURE CONTENT (%) =
INITIAL DRY DENSITY (lbs./cu.ft.) =
FINAL MOISTURE CONTENT (%) = 25.0

FIGURE NO.:

Sample No.	Identification	Gravel (%)	Sand (%)
● #1	Sand	0.3	94.3

Lake Hermitage
Composite
11 to 15 ft.

AASHTO Accredited Laboratory
LELAP Certificate No. 02052



Eustis

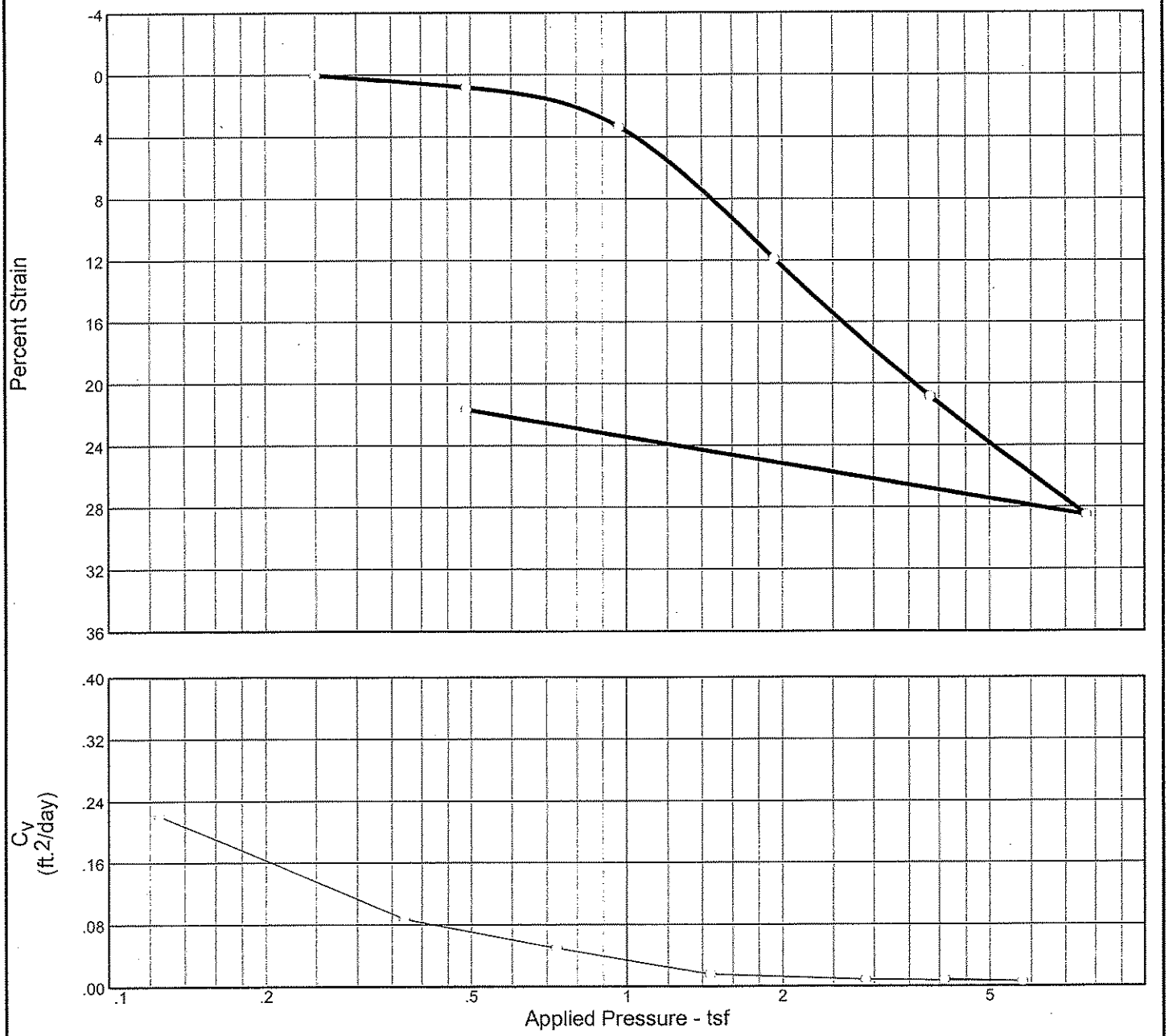
Ardaman & Associates, Inc.
(Formerly STE)

GRAIN SIZE ANALYSIS

File No.: 07-L1087
Date: 05/30/2007

ARD GRAINSIZE01 07-L1087.GPJ GRAINSZ.GDT 06/01/07

CONSOLIDATION TEST REPORT



Natural		Dry Dens. (pcf)	LL	PI	Sp. Gr.	P_c (tsf)	C_c	Initial Void Ratio
Saturation	Moisture							
99.2 %	64.3 %	61.6			2.74	1.09	0.89	1.777

MATERIAL DESCRIPTION	USCS	AASHTO
SO G CL	CH	

Project No. 19666 **Client:** HNTB CORPORATION

Project: LOUISIANA, STATE OF - LAKE HERMITAGE MARSH CREATION (BA-42), PLAQUEMINES PARISH, LOUISIANA. CONTRACT NO.2503-05-46

Source: B-5 **Sample No.:** 27 **Elev./Depth:** 54'

Remarks:

TESTED BY: RR

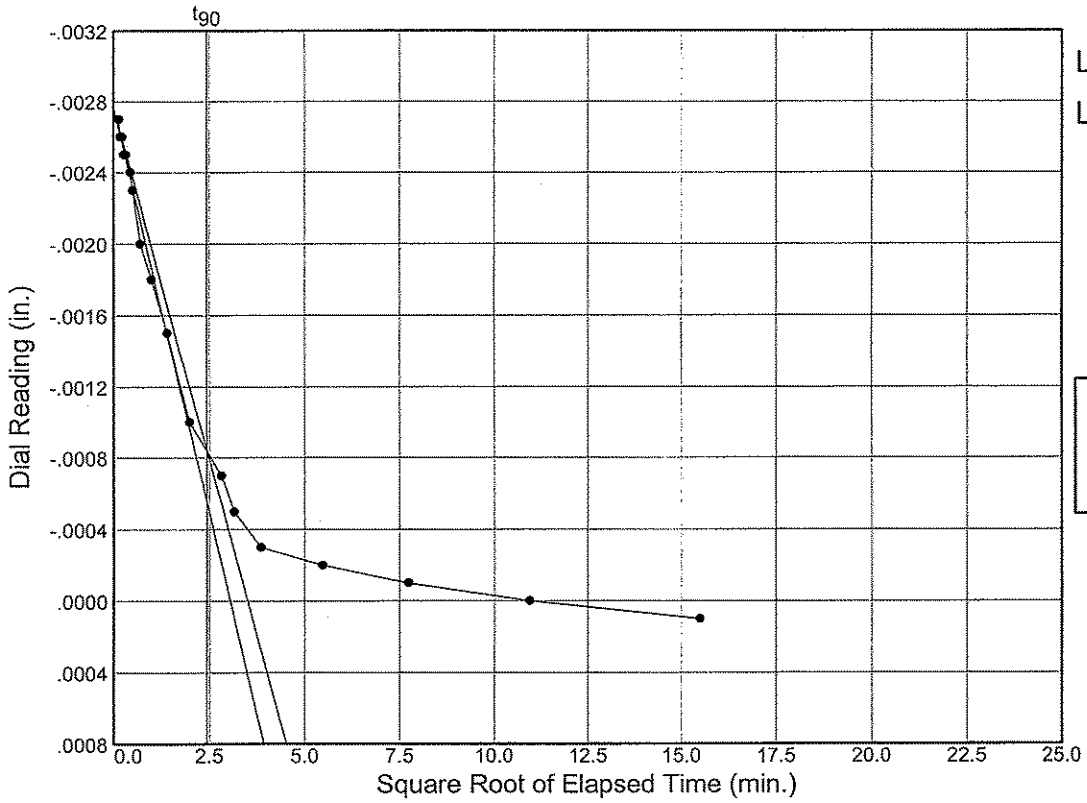
EUSTIS ENGINEERING COMPANY, INC.

METAIRIE, LA

Figure

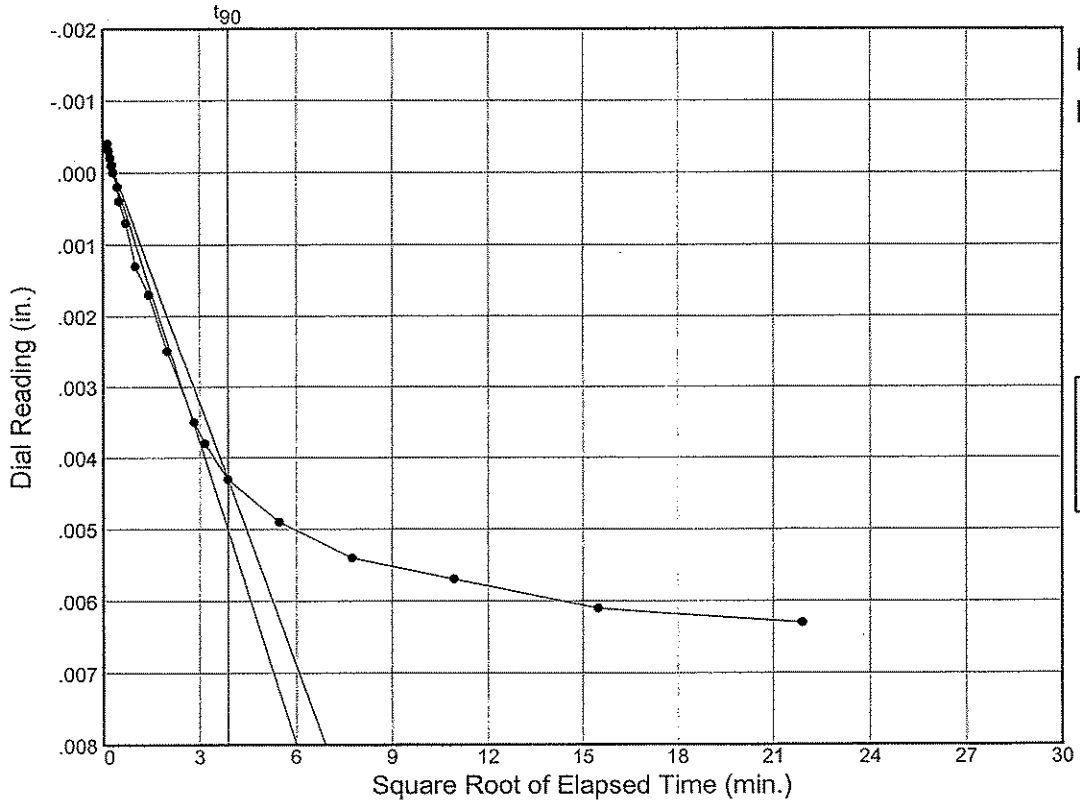
Dial Reading vs. Time

Project No.: 19666
Project: LOUISIANA, STATE OF - LAKE HERMITAGE MARSH CREATION (BA-42), PLAQUEMINES PARISH, LOUISIANA. CONTRACT NO.2503-05-46
Source: B-5 Sample No.: 27 Elev./Depth: 54'



Load No.= 1
Load= 0.25 tsf
D_0 = -0.00276
D_{90} = -0.00084
D_{100} = -0.00062
T_{90} = 5.98 min.

C_v @ T_{90}
0.22 ft.^{2}/day



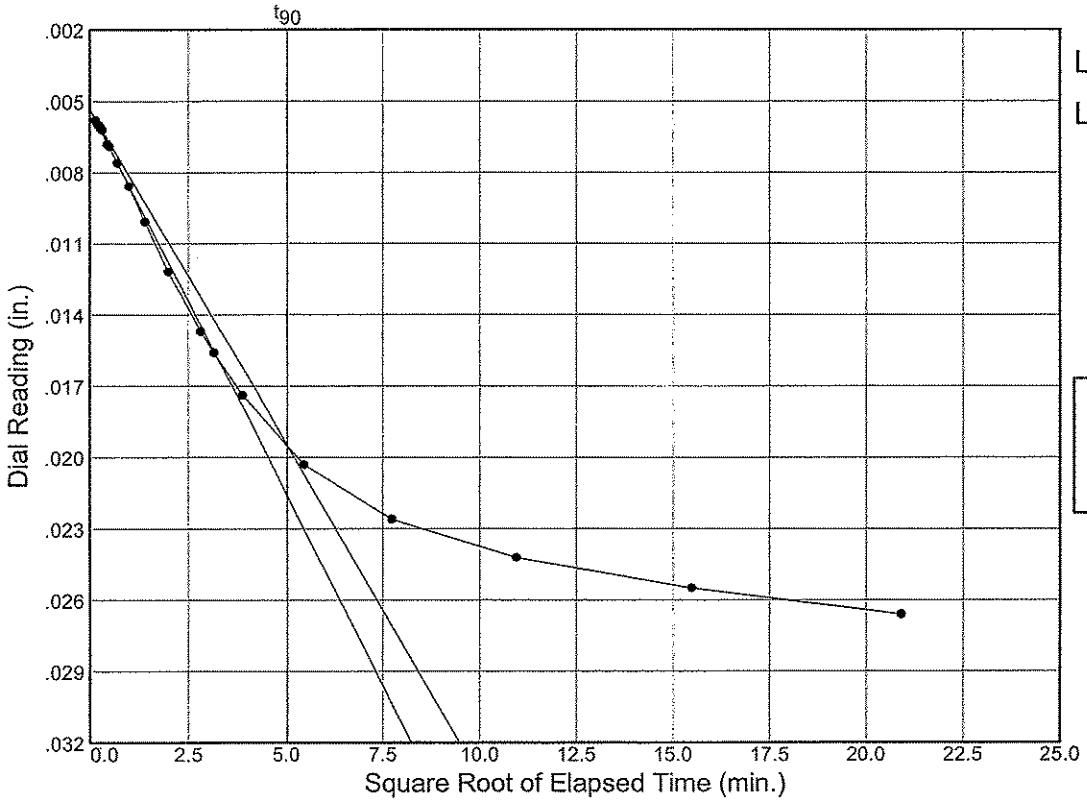
Load No.= 2
Load= 0.49 tsf
D_0 = -0.00042
D_{90} = 0.00430
D_{100} = 0.00483
T_{90} = 15.03 min.

C_v @ T_{90}
0.09 ft.^{2}/day

Figure

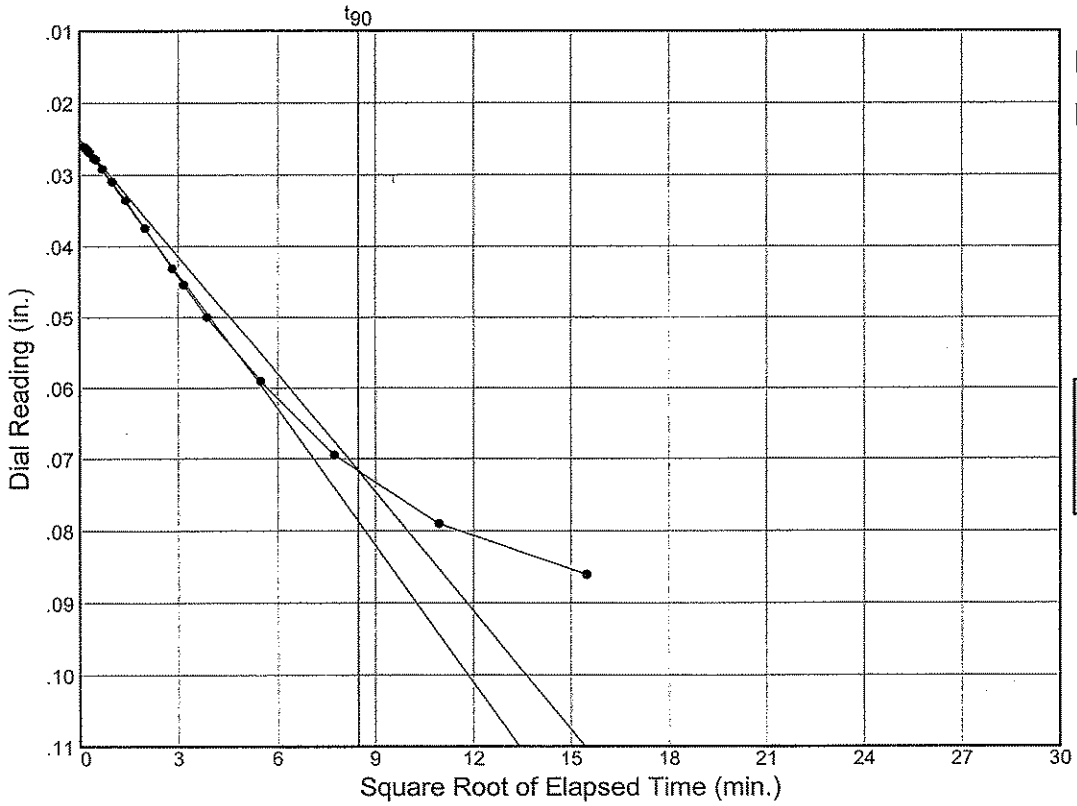
Dial Reading vs. Time

Project No.: 19666
Project: LOUISIANA, STATE OF - LAKE HERMITAGE MARSH CREATION (BA-42), PLAQUEMINES PARISH, LOUISIANA. CONTRACT NO.2503-05-46
Source: B-5 Sample No.: 27 Elev./Depth: 54'



Load No.= 3
Load= 0.97 tsf
D_0 = 0.00533
D_{90} = 0.01953
D_{100} = 0.02110
T_{90} = 25.49 min.

C_v @ T_{90}
0.05 ft.^{2}/day



Load No.= 4
Load= 1.93 tsf
D_0 = 0.02493
D_{90} = 0.07169
D_{100} = 0.07688
T_{90} = 72.00 min.

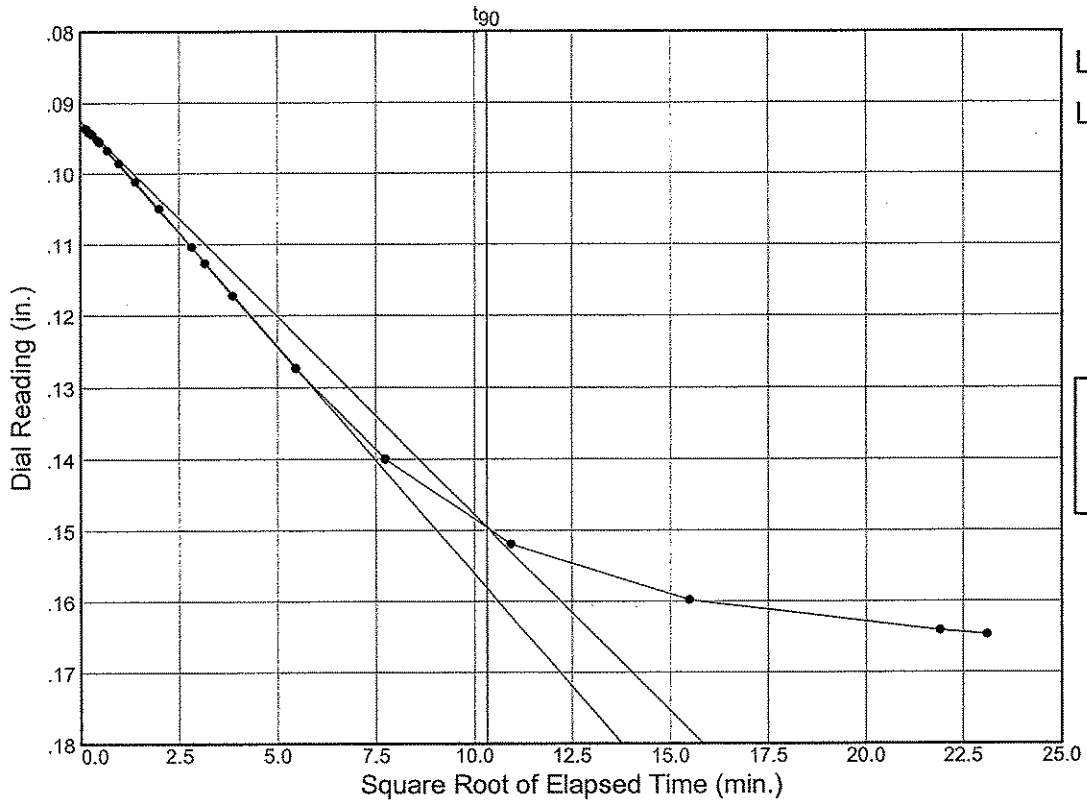
C_v @ T_{90}
0.02 ft.^{2}/day

Figure

EUSTIS ENGINEERING COMPANY, INC.

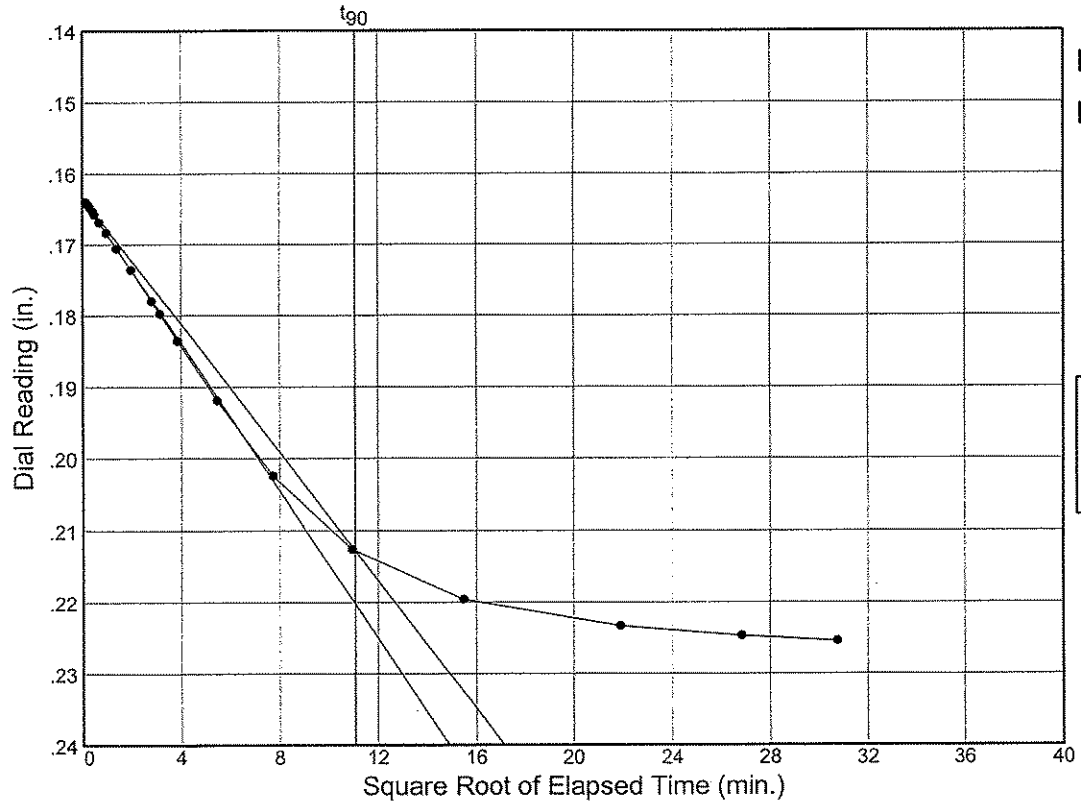
Dial Reading vs. Time

Project No.: 19666
Project: LOUISIANA, STATE OF - LAKE HERMITAGE MARSH CREATION (BA-42), PLAQUEMINES PARISH, LOUISIANA. CONTRACT NO.2503-05-46
Source: B-5 Sample No.: 27 Elev./Depth: 54'



Load No.= 5
Load= 3.85 tsf
D_0 = 0.09252
D_{90} = 0.14958
D_{100} = 0.15592
T_{90} = 106.68 min.

C_v @ T_{90}
0.01 ft.^{2}/day



Load No.= 6
Load= 7.69 tsf
D_0 = 0.16328
D_{90} = 0.21279
D_{100} = 0.21829
T_{90} = 122.66 min.

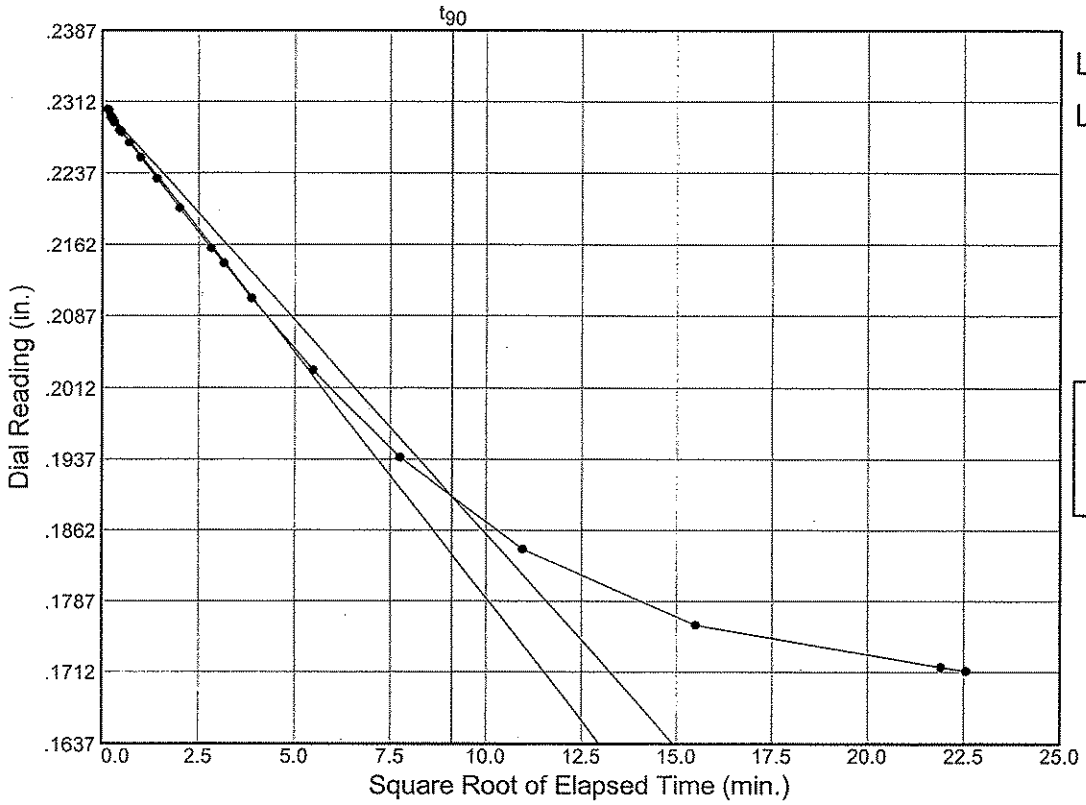
C_v @ T_{90}
0.01 ft.^{2}/day

Figure

EUSTIS ENGINEERING COMPANY, INC.

Dial Reading vs. Time

Project No.: 19666
Project: LOUISIANA, STATE OF - LAKE HERMITAGE MARSH CREATION (BA-42), PLAQUEMINES PARISH, LOUISIANA. CONTRACT NO.2503-05-46
Source: B-5 Sample No.: 27 Elev./Depth: 54'

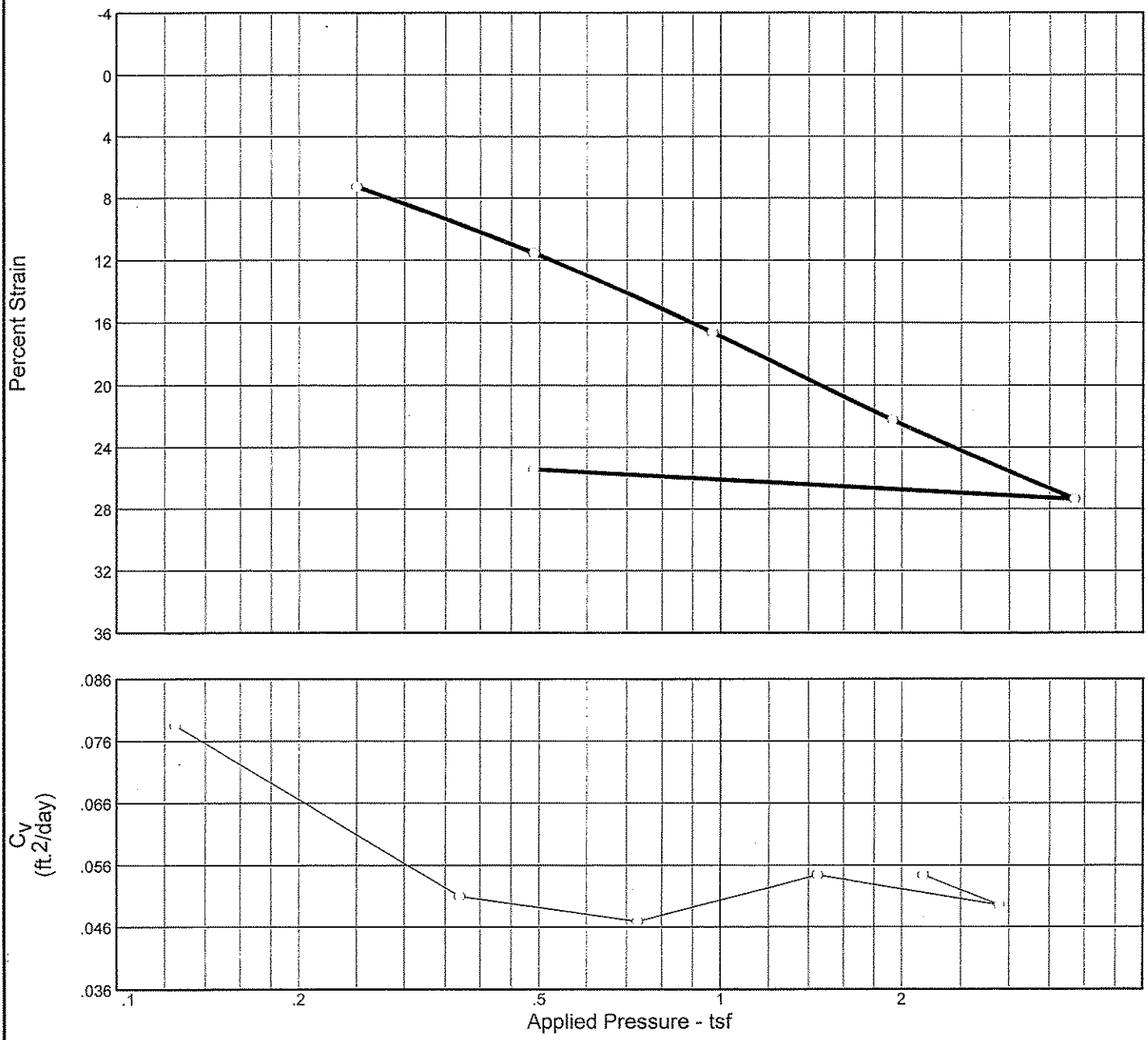


Load No.= 7
Load= 0.49 tsf
D_0 = 0.23067
D_{90} = 0.18974
D_{100} = 0.18519
T_{90} = 83.20 min.

C_v @ T_{90}
0.01 ft.^{2}/day

Figure

CONSOLIDATION TEST REPORT



Natural		Dry Dens. (pcf)	LL	PI	Sp. Gr.	P_c (tsf)	C_c	Initial Void Ratio
Saturation	Moisture							
99.2 %	63.6 %	61.9			2.72	0.56	0.52	1.744

MATERIAL DESCRIPTION	USCS	AASHTO
VSO G CL W/ SASI LEN	CH	

Project No. 19666 **Client:** HNTB CORPORATION

Project: LOUISIANA, STATE OF - LAKE HERMITAGE MARSH CREATION (BA-42), PLAQUEMINES PARISH, LOUISIANA. CONTRACT NO.2503-05-46

Source: B-5 **Sample No.:** 15 **Elev./Depth:** 14'

Remarks:

TESTED BY: RR

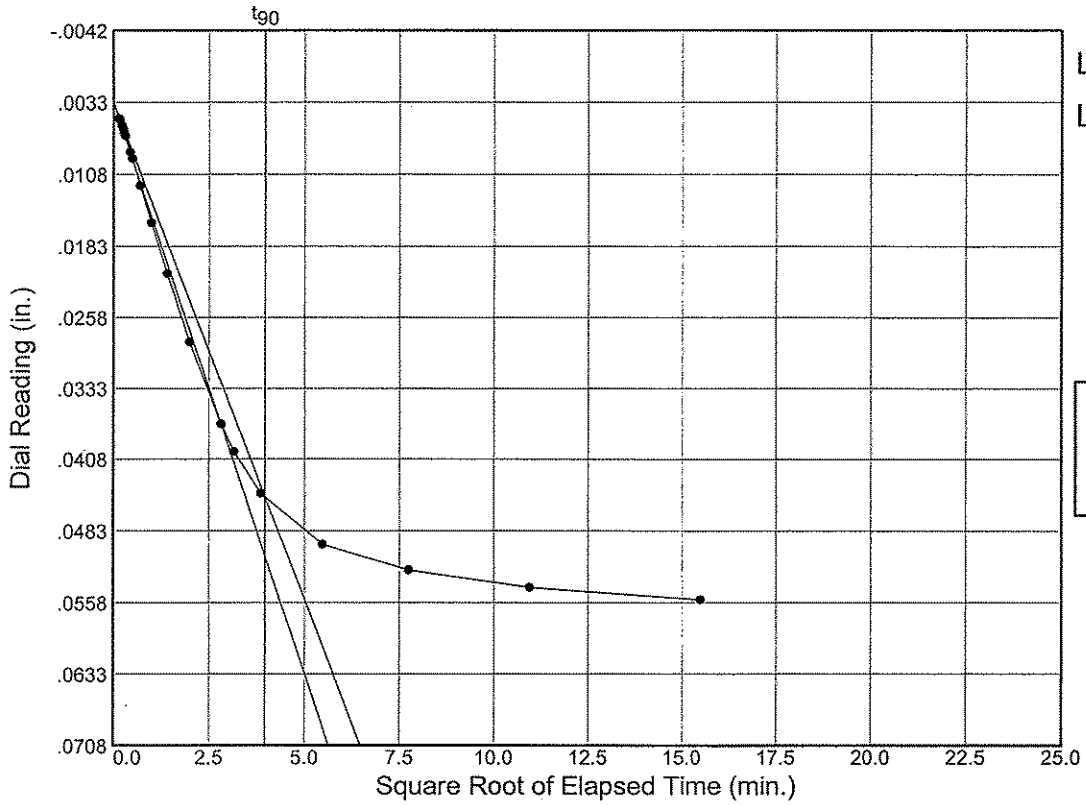
EUSTIS ENGINEERING COMPANY, INC.

METAIRIE, LA

Figure

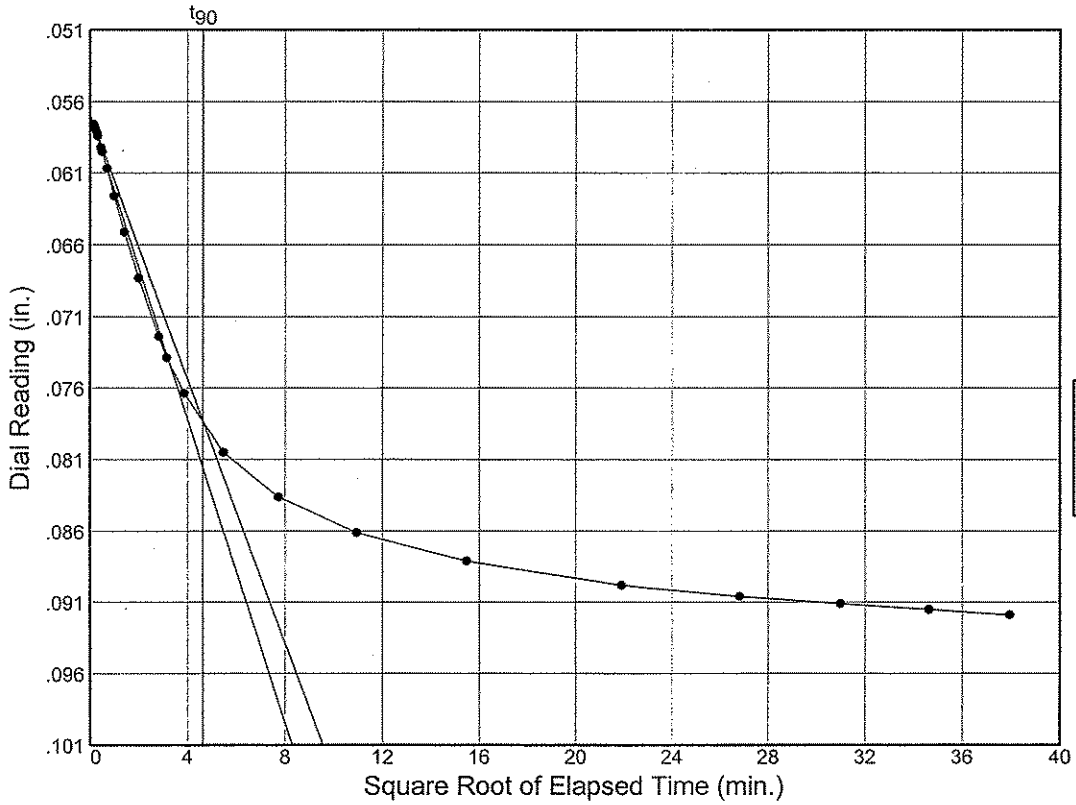
Dial Reading vs. Time

Project No.: 19666
Project: LOUISIANA, STATE OF - LAKE HERMITAGE MARSH CREATION (BA-42), PLAQUEMINES PARISH, LOUISIANA. CONTRACT NO.2503-05-46
Source: B-5 Sample No.: 15 Elev./Depth: 14'



Load No.= 1
Load= 0.25 tsf
D_0 = 0.00331
D_{90} = 0.04475
D_{100} = 0.04936
T_{90} = 15.84 min.

C_v @ T_{90}
0.08 ft.^{2}/day



Load No.= 2
Load= 0.49 tsf
D_0 = 0.05694
D_{90} = 0.07837
D_{100} = 0.08075
T_{90} = 21.56 min.

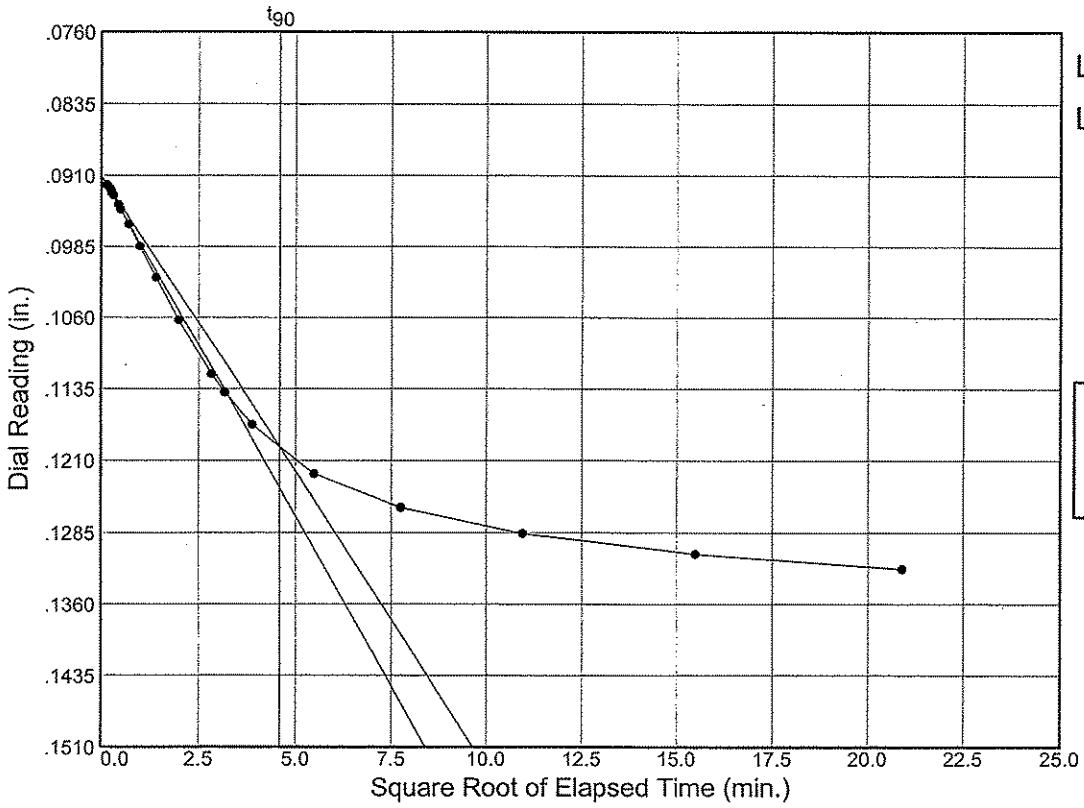
C_v @ T_{90}
0.05 ft.^{2}/day

Figure

EUSTIS ENGINEERING COMPANY, INC.

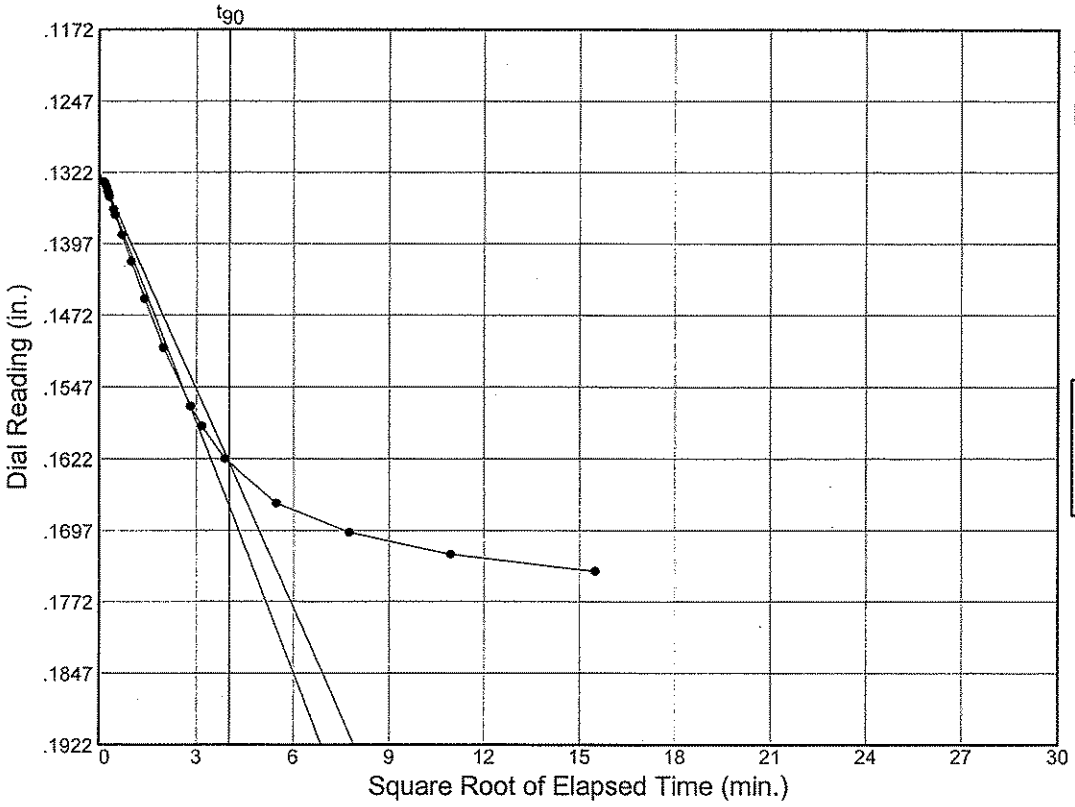
Dial Reading vs. Time

Project No.: 19666
Project: LOUISIANA, STATE OF - LAKE HERMITAGE MARSH CREATION (BA-42), PLAQUEMINES PARISH, LOUISIANA. CONTRACT NO.2503-05-46
Source: B-5 Sample No.: 15 Elev./Depth: 14'



Load No.= 3
Load= 0.97 tsf
D_0 = 0.09107
D_{90} = 0.11958
D_{100} = 0.12275
T_{90} = 21.08 min.

C_v @ T_{90}
0.05 ft.^{2}/day



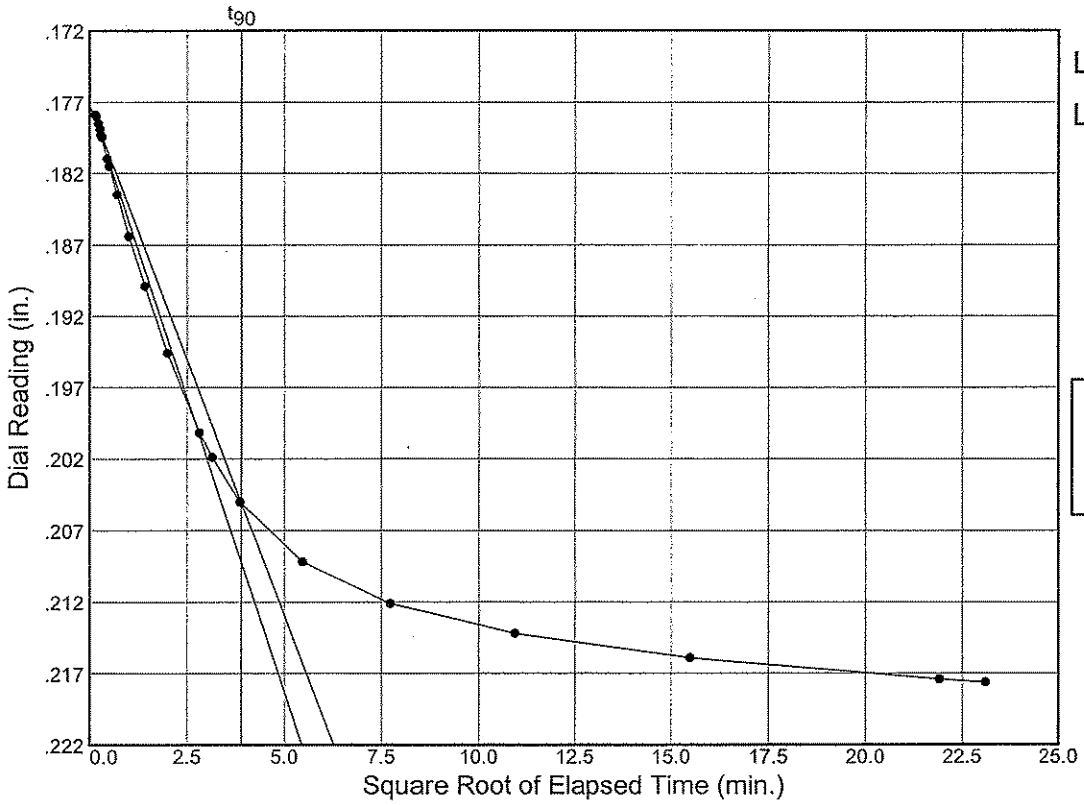
Load No.= 4
Load= 1.93 tsf
D_0 = 0.13220
D_{90} = 0.16255
D_{100} = 0.16593
T_{90} = 15.97 min.

C_v @ T_{90}
0.05 ft.^{2}/day

Figure

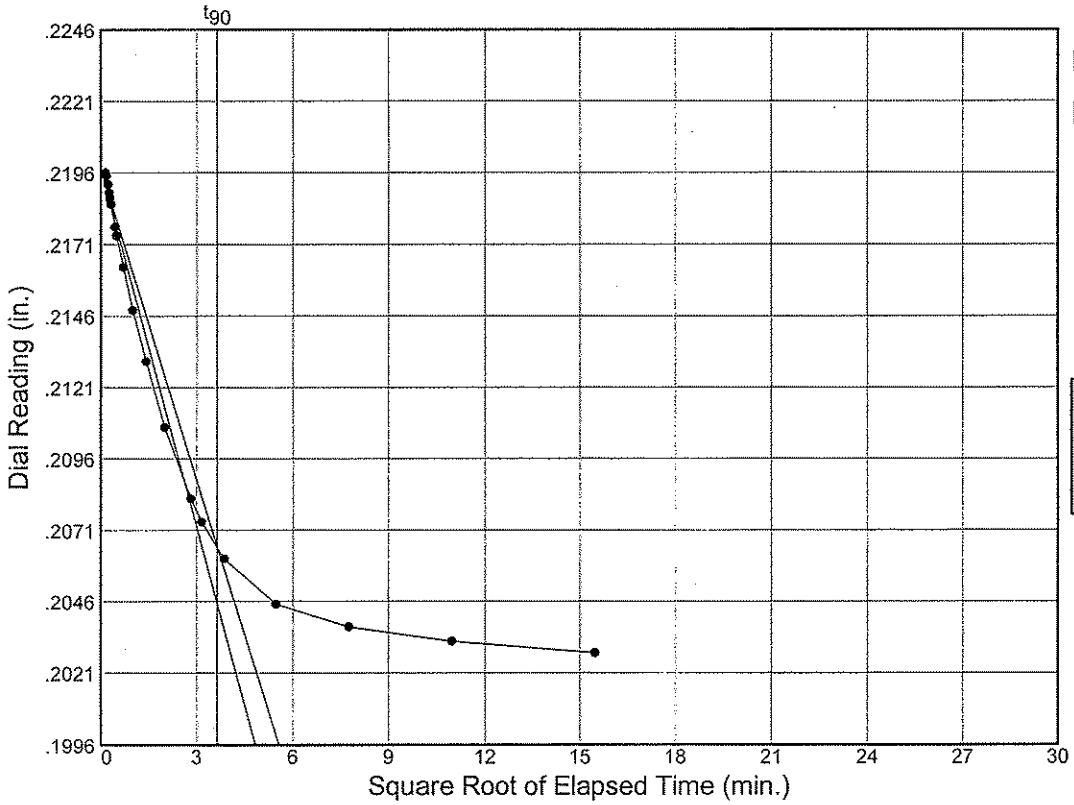
Dial Reading vs. Time

Project No.: 19666
Project: LOUISIANA, STATE OF - LAKE HERMITAGE MARSH CREATION (BA-42), PLAQUEMINES PARISH, LOUISIANA. CONTRACT NO.2503-05-46
Source: B-5 Sample No.: 15 Elev./Depth: 14'



Load No.= 5
Load= 3.85 tsf
D_0 = 0.17718
D_{90} = 0.20509
D_{100} = 0.20820
T_{90} = 15.28 min.

C_v @ T_{90}
0.05 ft.^{2}/day



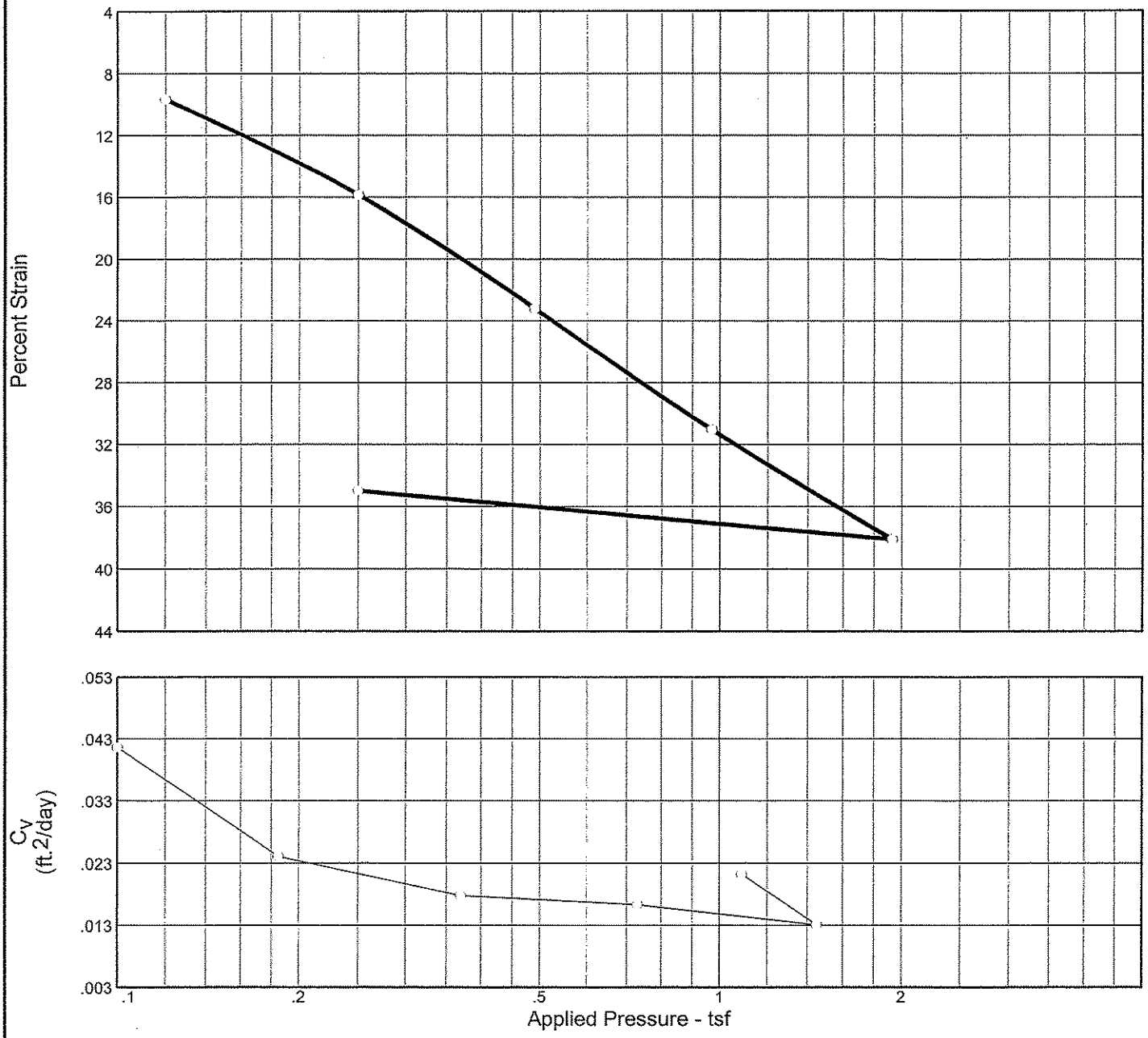
Load No.= 6
Load= 0.49 tsf
D_0 = 0.21970
D_{90} = 0.20651
D_{100} = 0.20504
T_{90} = 13.33 min.

C_v @ T_{90}
0.05 ft.^{2}/day

Figure

EUSTIS ENGINEERING COMPANY, INC.

CONSOLIDATION TEST REPORT



Natural		Dry Dens. (pcf)	LL	PI	Sp. Gr.	P_c (tsf)	C_c	Initial Void Ratio
Saturation	Moisture							
98.0 %	119.5 %	39.3			2.70	0.24	1.13	3.290

MATERIAL DESCRIPTION	USCS	AASHTO
XSO G CL W/ OM, RT	CH	

Project No. 19666 **Client:** HNTB CORPORATION

Project: LOUISIANA, STATE OF - LAKE HERMITAGE MARSH CREATION (BA-42), PLAQUEMINES PARISH, LOUISIANA. CONTRACT NO.2503-05-46

Source: B-5 **Sample No.:** 3 **Elev./Depth:** 2'

Remarks:

TESTED BY: RR

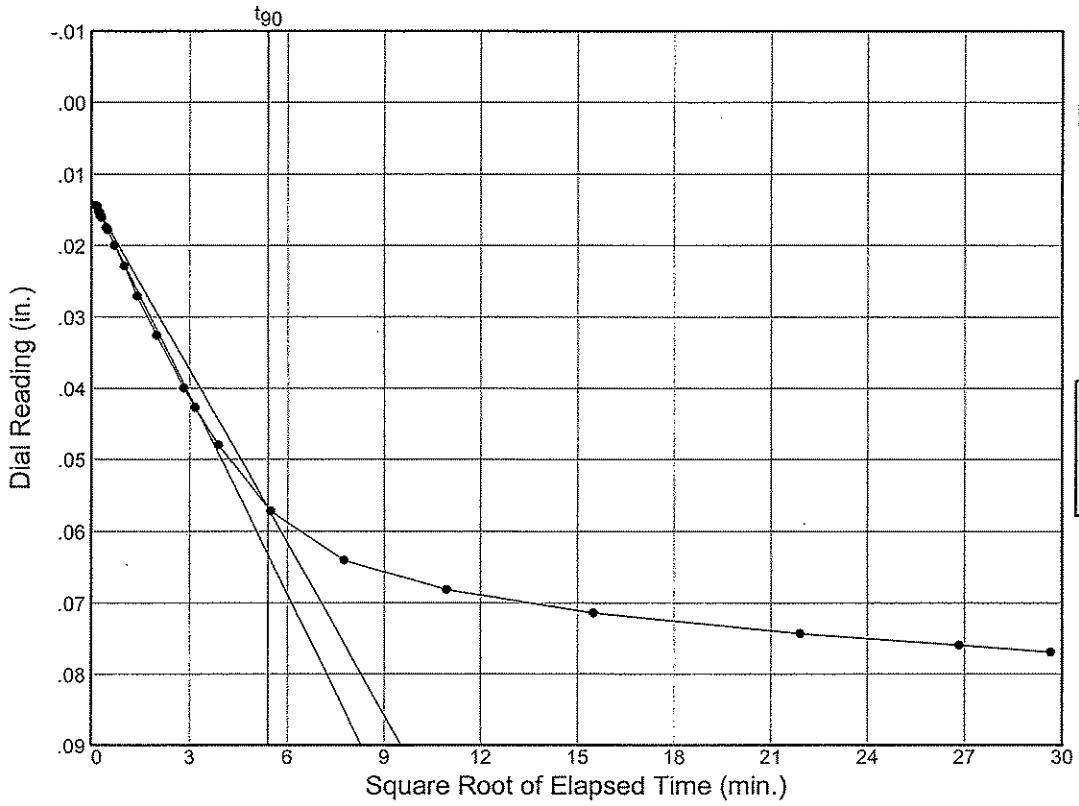
EUSTIS ENGINEERING COMPANY, INC.

METAIRIE, LA

Figure

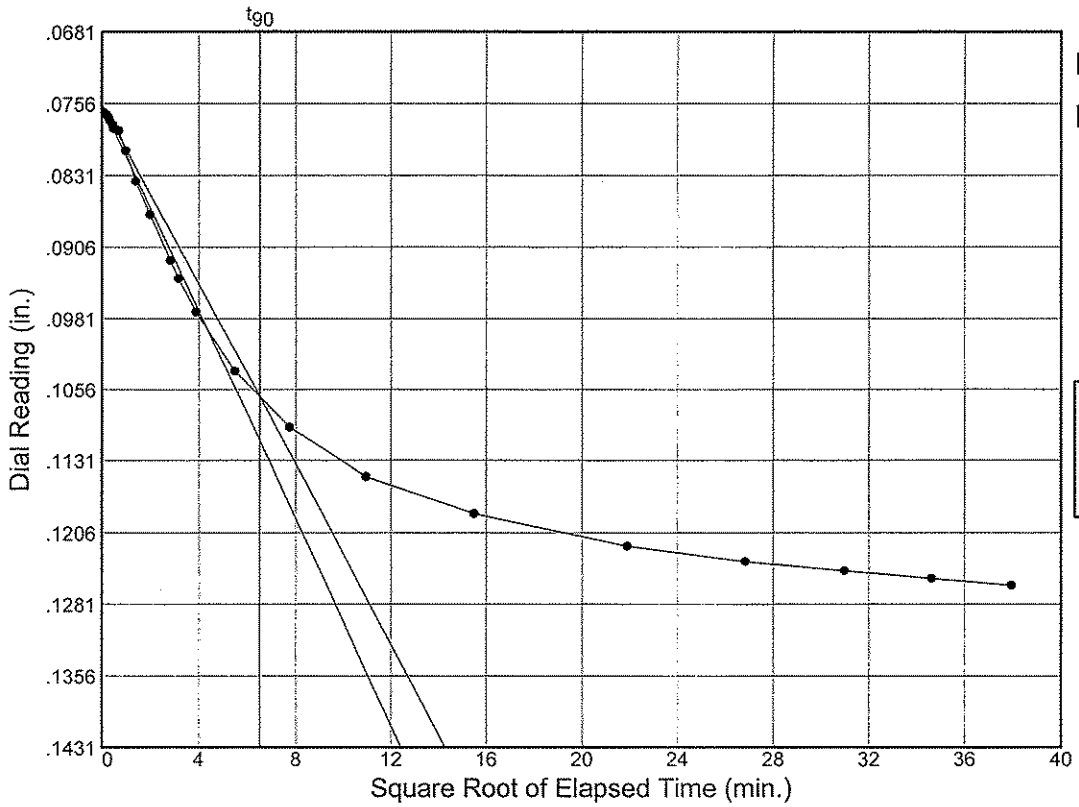
Dial Reading vs. Time

Project No.: 19666
Project: LOUISIANA, STATE OF - LAKE HERMITAGE MARSH CREATION (BA-42), PLAQUEMINES PARISH, LOUISIANA. CONTRACT NO.2503-05-46
Source: B-5 Sample No.: 3 Elev./Depth: 2'



Load No.= 1
Load= 0.12 tsf
D_0 = 0.01332
D_{90} = 0.05675
D_{100} = 0.06157
T_{90} = 29.14 min.

C_v @ T_{90}
0.04 ft.^{2}/day



Load No.= 2
Load= 0.25 tsf
D_0 = 0.07564
D_{90} = 0.10637
D_{100} = 0.10979
T_{90} = 42.31 min.

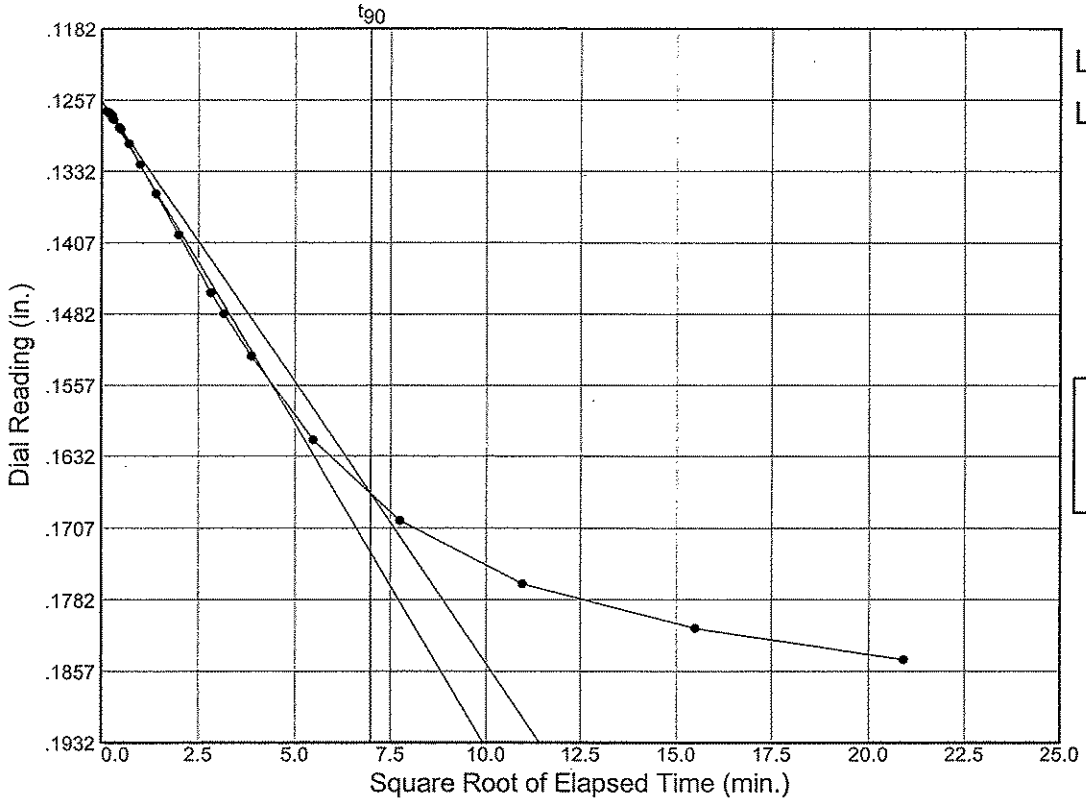
C_v @ T_{90}
0.02 ft.^{2}/day

Figure

EUSTIS ENGINEERING COMPANY, INC.

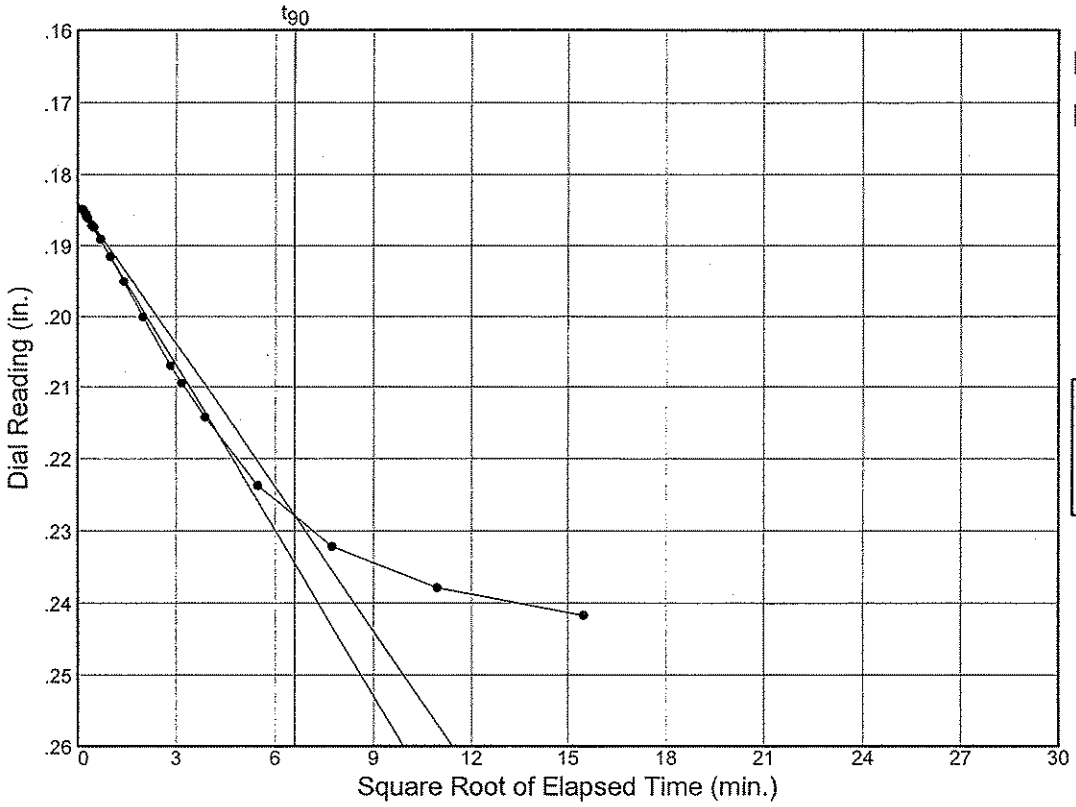
Dial Reading vs. Time

Project No.: 19666
Project: LOUISIANA, STATE OF - LAKE HERMITAGE MARSH CREATION (BA-42), PLAQUEMINES PARISH, LOUISIANA. CONTRACT NO.2503-05-46
Source: B-5 Sample No.: 3 Elev./Depth: 2'



Load No.= 3
Load= 0.49 tsf
D_0 = 0.12580
D_{90} = 0.16708
D_{100} = 0.17167
T_{90} = 48.78 min.

C_v @ T_{90}
0.02 ft.^{2}/day



Load No.= 4
Load= 0.97 tsf
D_0 = 0.18393
D_{90} = 0.22789
D_{100} = 0.23277
T_{90} = 43.50 min.

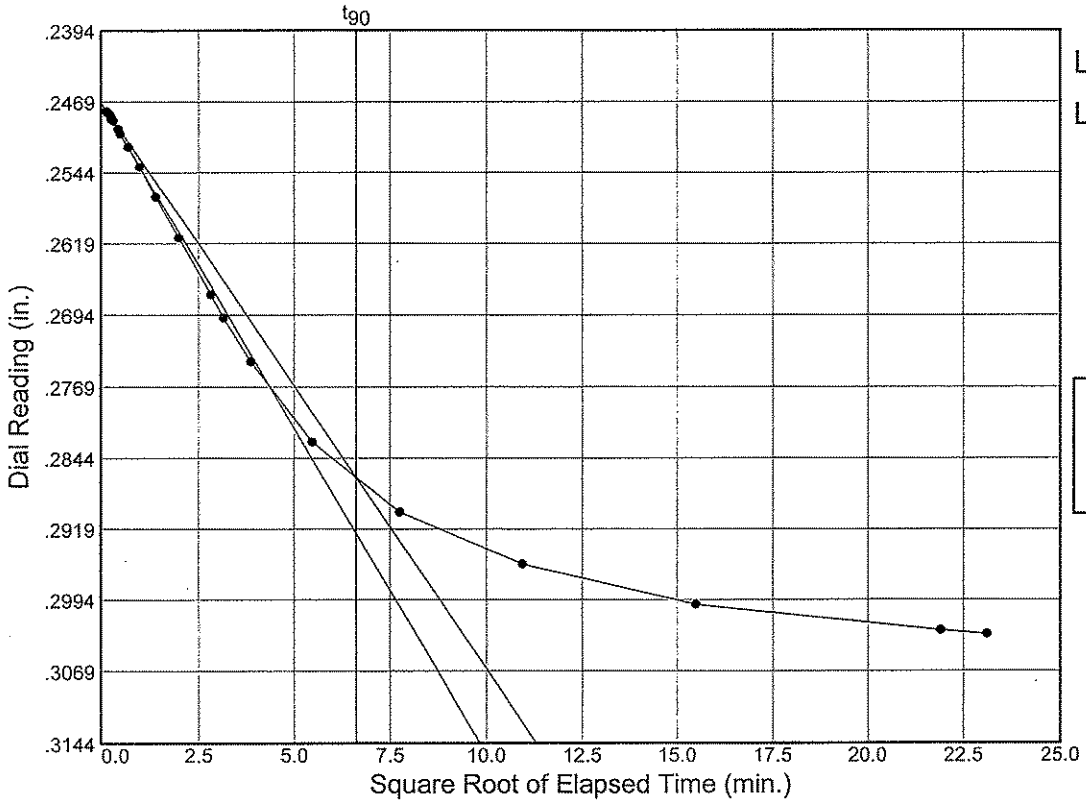
C_v @ T_{90}
0.02 ft.^{2}/day

Figure

EUSTIS ENGINEERING COMPANY, INC.

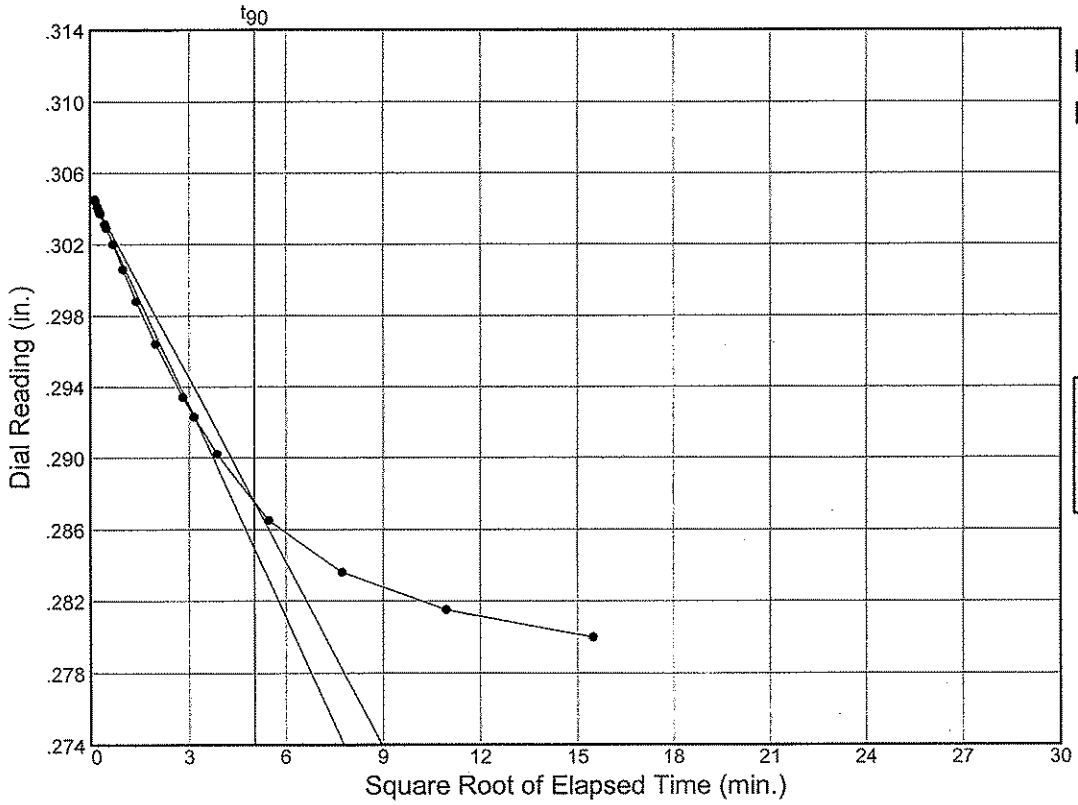
Dial Reading vs. Time

Project No.: 19666
Project: LOUISIANA, STATE OF - LAKE HERMITAGE MARSH CREATION (BA-42), PLAQUEMINES PARISH, LOUISIANA. CONTRACT NO.2503-05-46
Source: B-5 Sample No.: 3 Elev./Depth: 2'



Load No.= 5
Load= 1.93 tsf
D_0 = 0.24700
D_{90} = 0.28643
D_{100} = 0.29081
T_{90} = 43.82 min.

C_v @ T_{90}
0.01 ft.^{2}/day



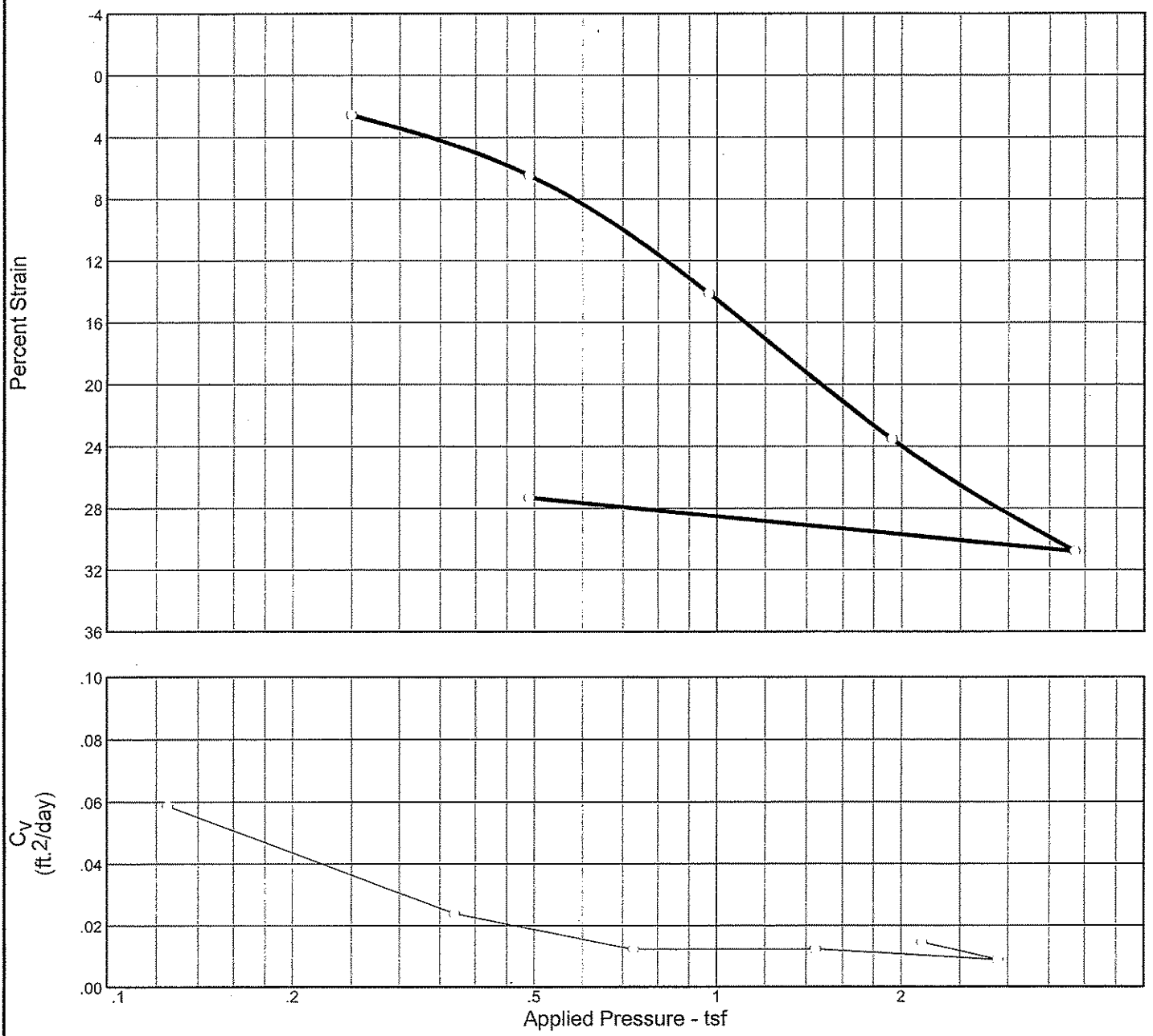
Load No.= 6
Load= 0.25 tsf
D_0 = 0.30485
D_{90} = 0.28752
D_{100} = 0.28559
T_{90} = 25.36 min.

C_v @ T_{90}
0.02 ft.^{2}/day

Figure

EUSTIS ENGINEERING COMPANY, INC.

CONSOLIDATION TEST REPORT



Natural		Dry Dens. (pcf)	LL	PI	Sp. Gr.	P_c (tsf)	C_c	Initial Void Ratio
Saturation	Moisture							
99.0 %	76.4 %	54.8			2.73	0.62	0.99	2.108

MATERIAL DESCRIPTION	USCS	AASHTO
VSO G CL W/ SI POC	CH	

Project No. 19666 **Client:** HNTB CORPORATION

Project: LOUISIANA, STATE OF - LAKE HERMITAGE MARSH CREATION (BA-42), PLAQUEMINES PARISH, LOUISIANA. CONTRACT NO.2503-05-46

Source: B-4 **Sample No.:** 16 **Elev./Depth:** 15'

Remarks:

TESTED BY: RR

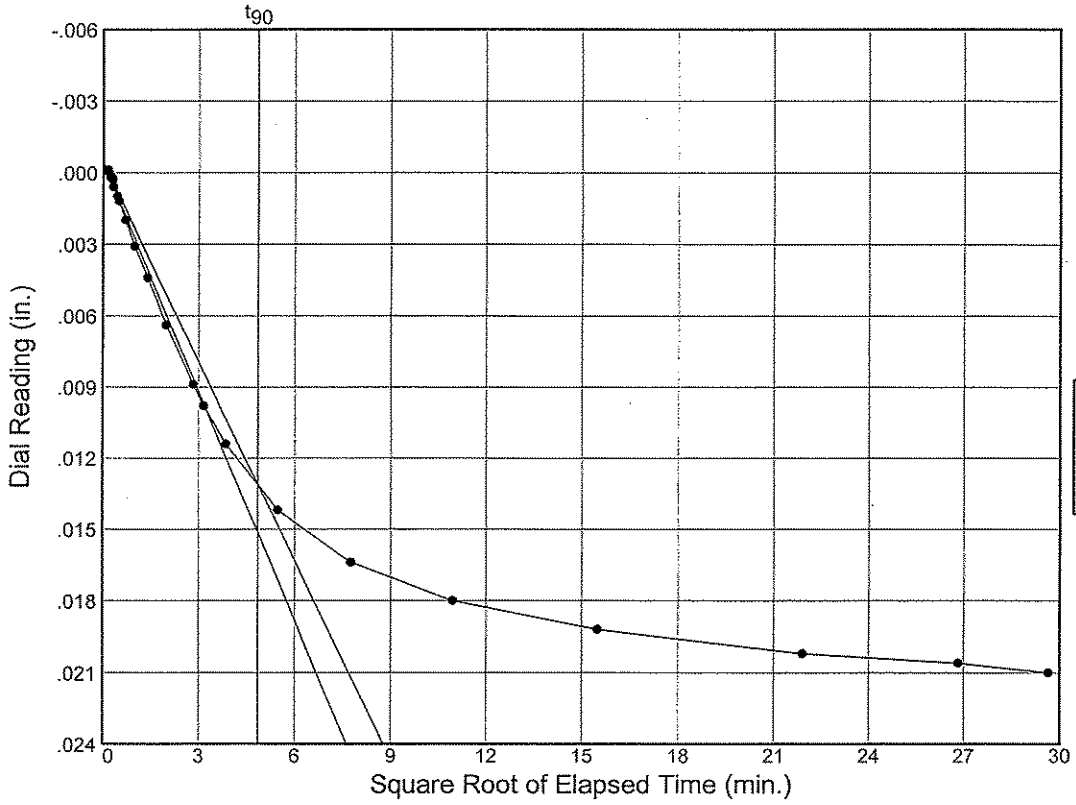
EUSTIS ENGINEERING COMPANY, INC.

METAIRIE, LA

Figure

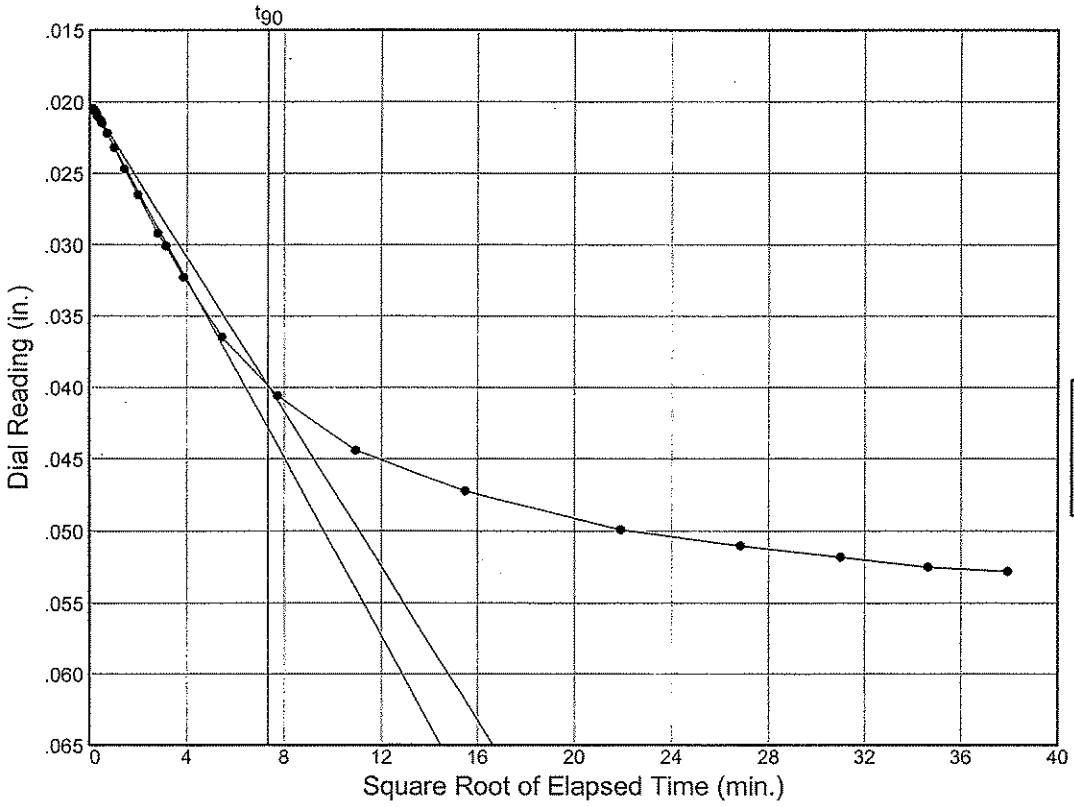
Dial Reading vs. Time

Project No.: 19666
Project: LOUISIANA, STATE OF - LAKE HERMITAGE MARSH CREATION (BA-42), PLAQUEMINES PARISH, LOUISIANA. CONTRACT NO.2503-05-46
Source: B-4 Sample No.: 16 Elev./Depth: 15'



Load No.= 1
Load= 0.25 tsf
D_0 = -0.00041
D_{90} = 0.01310
D_{100} = 0.01460
T_{90} = 23.51 min.

C_v @ T_{90}
0.06 ft.^{2}/day



Load No.= 2
Load= 0.49 tsf
D_0 = 0.02008
D_{90} = 0.03988
D_{100} = 0.04208
T_{90} = 53.96 min.

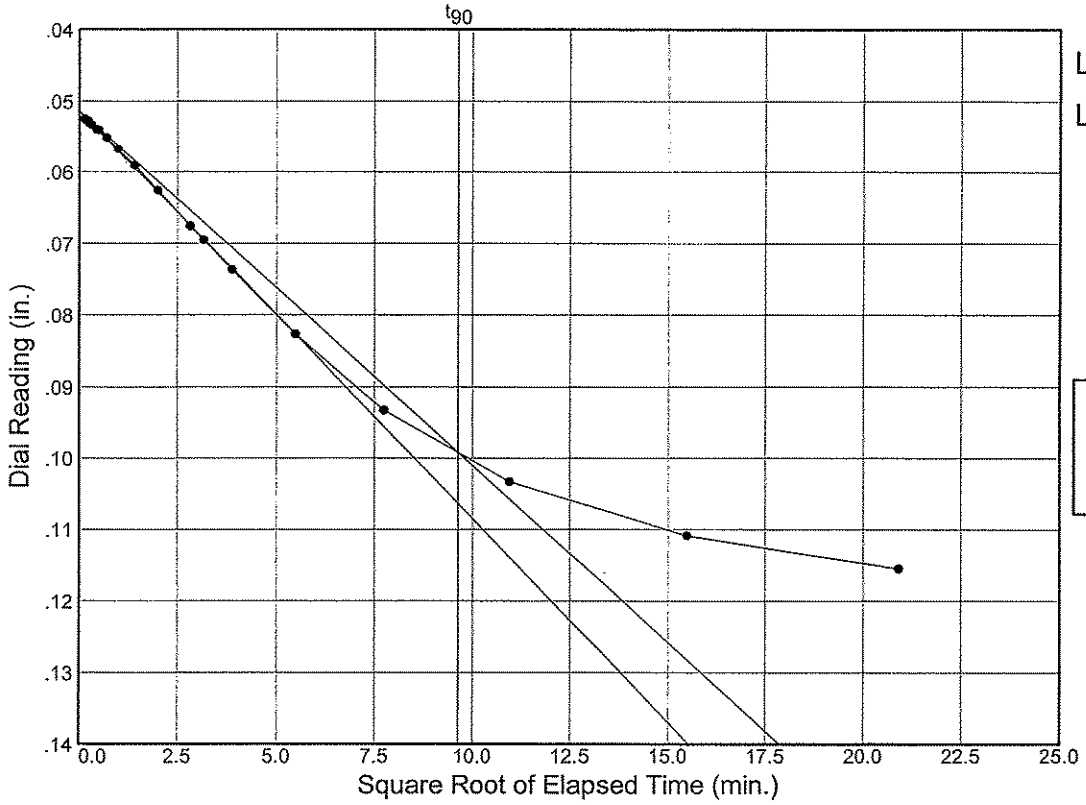
C_v @ T_{90}
0.02 ft.^{2}/day

Figure

EUSTIS ENGINEERING COMPANY, INC.

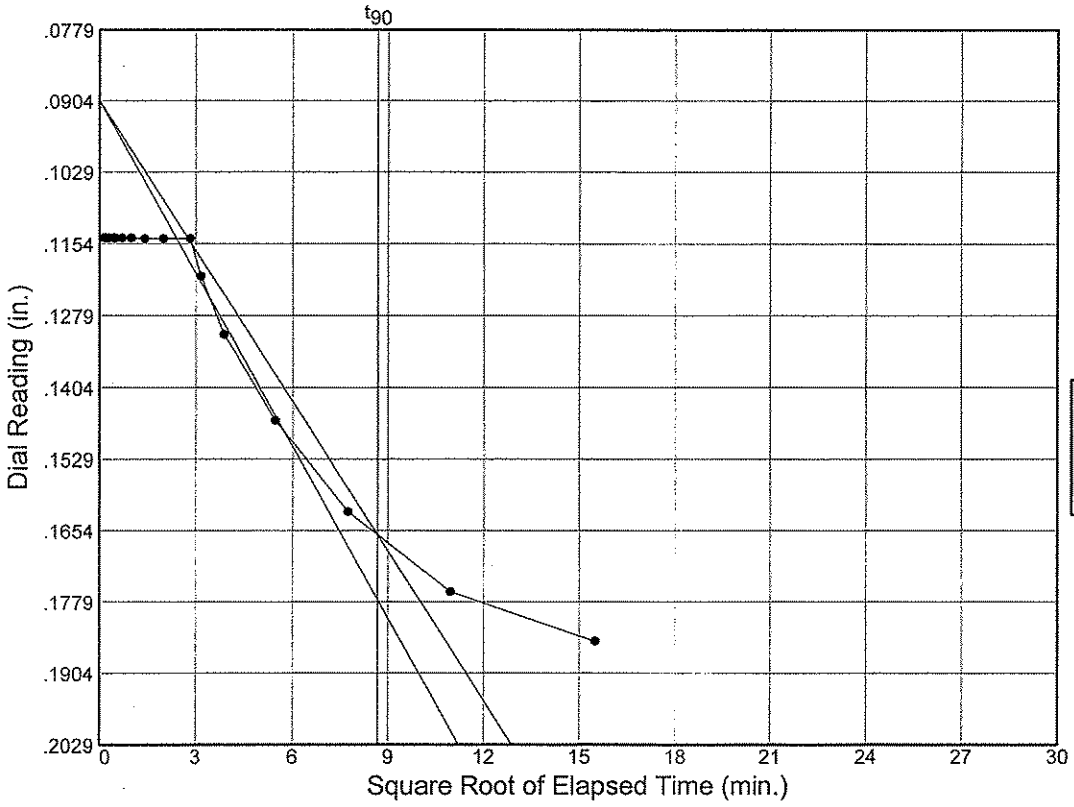
Dial Reading vs. Time

Project No.: 19666
Project: LOUISIANA, STATE OF - LAKE HERMITAGE MARSH CREATION (BA-42), PLAQUEMINES PARISH, LOUISIANA. CONTRACT NO.2503-05-46
Source: B-4 Sample No.: 16 Elev./Depth: 15'



Load No.= 3
Load= 0.97 tsf
D_0 = 0.05142
D_{90} = 0.09919
D_{100} = 0.10450
T_{90} = 92.84 min.

C_v @ T_{90}
0.01 ft.^{2}/day



Load No.= 4
Load= 1.93 tsf
D_0 = 0.09045
D_{90} = 0.16617
D_{100} = 0.17459
T_{90} = 75.33 min.

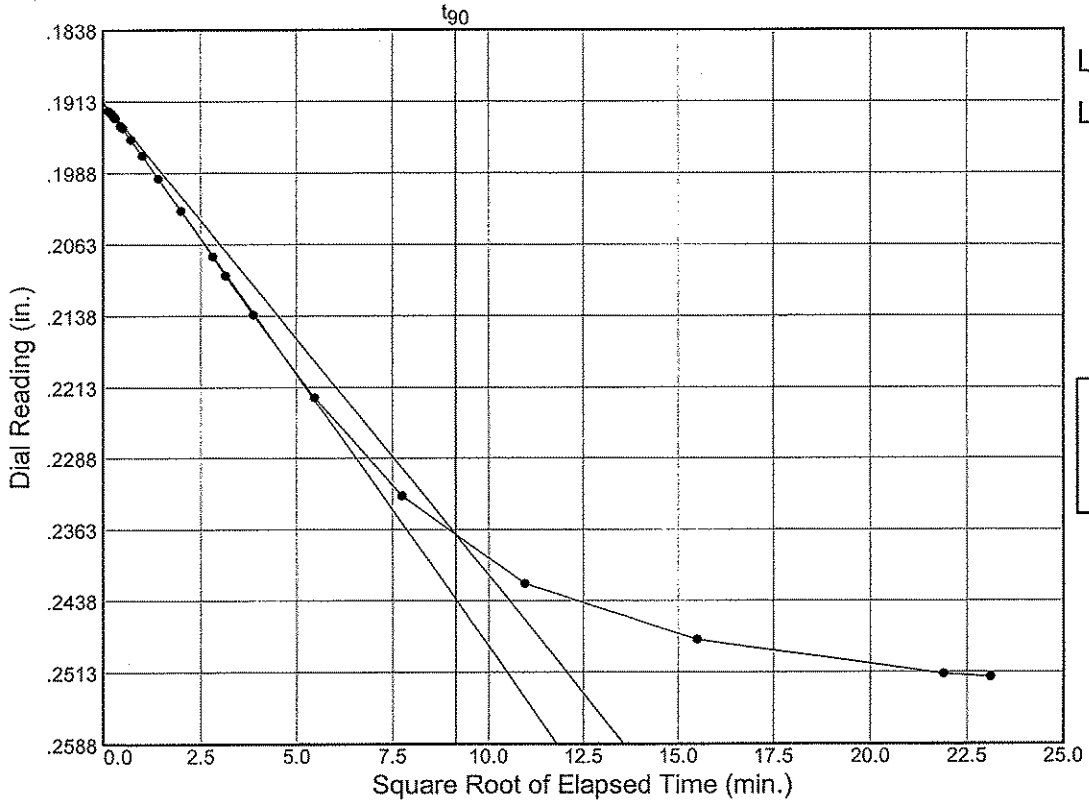
C_v @ T_{90}
0.01 ft.^{2}/day

Figure

EUSTIS ENGINEERING COMPANY, INC.

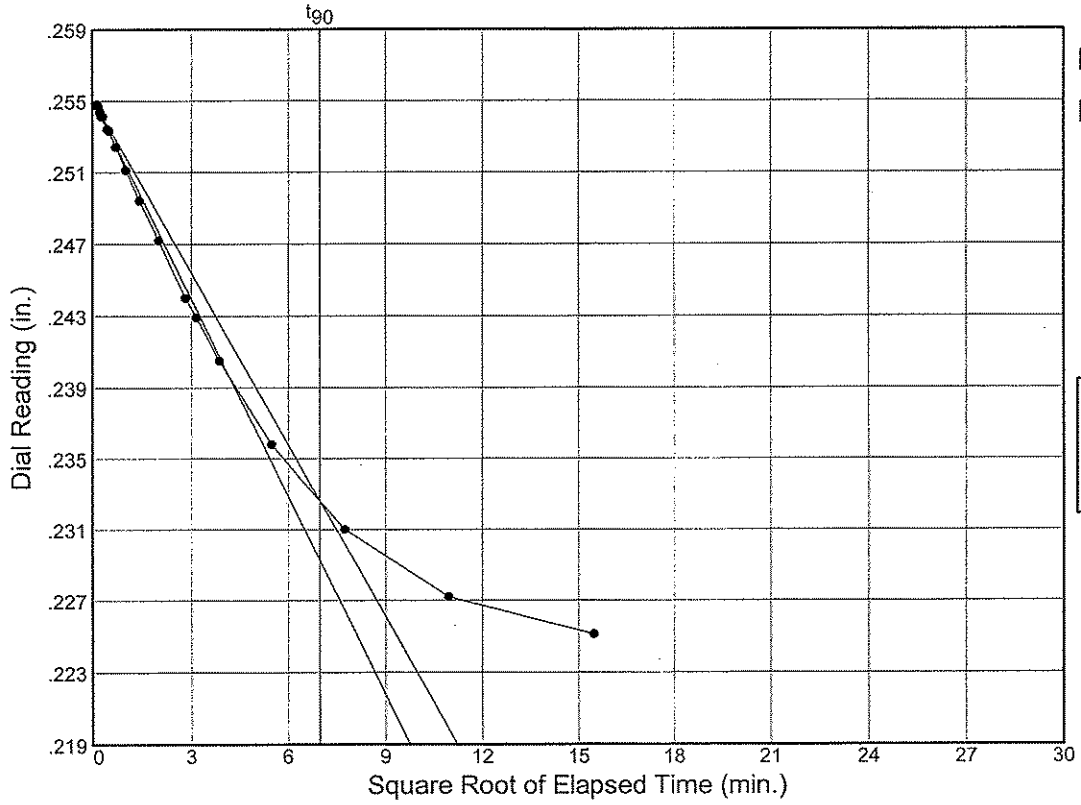
Dial Reading vs. Time

Project No.: 19666
Project: LOUISIANA, STATE OF - LAKE HERMITAGE MARSH CREATION (BA-42), PLAQUEMINES PARISH, LOUISIANA. CONTRACT NO.2503-05-46
Source: B-4 Sample No.: 16 Elev./Depth: 15'



Load No.= 5
Load= 3.85 tsf
D_0 = 0.19135
D_{90} = 0.23683
D_{100} = 0.24188
T_{90} = 83.72 min.

C_v @ T_{90}
0.01 ft.^{2}/day



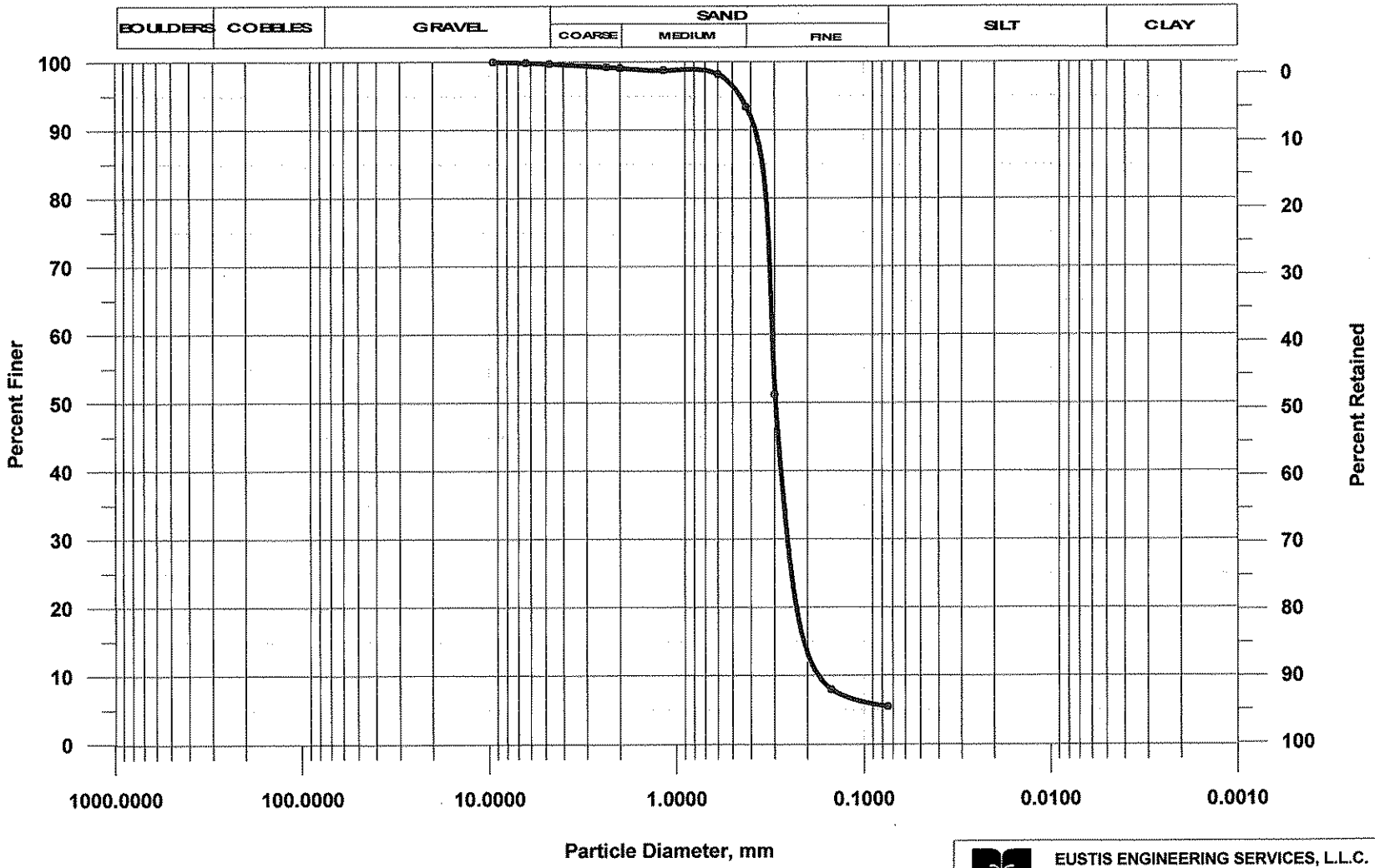
Load No.= 6
Load= 0.49 tsf
D_0 = 0.25503
D_{90} = 0.23261
D_{100} = 0.23012
T_{90} = 48.78 min.

C_v @ T_{90}
0.01 ft.^{2}/day

Figure

EUSTIS ENGINEERING COMPANY, INC.

PARTICLE SIZE ANALYSIS -- ASTM D 422



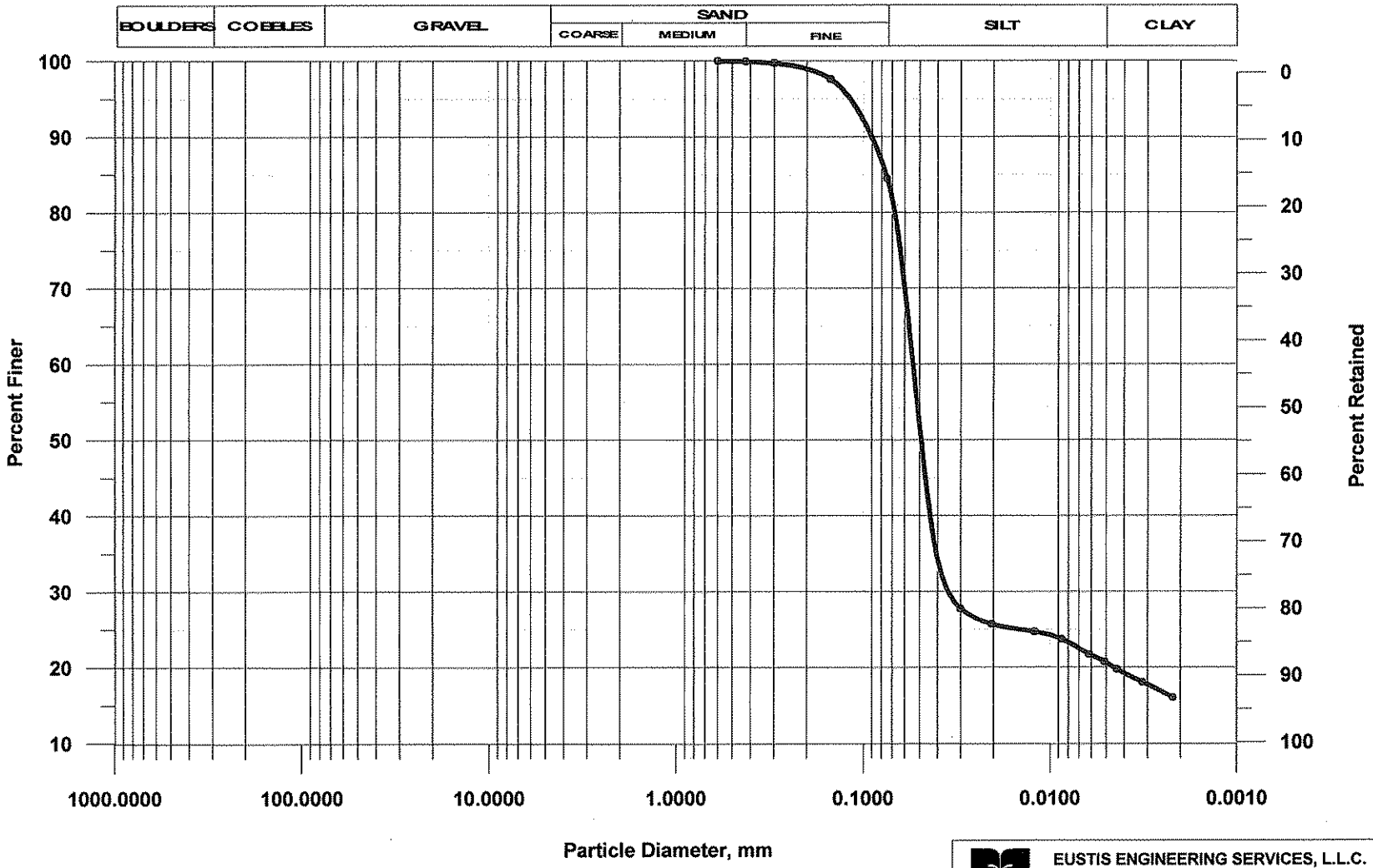
EUSTIS ENGINEERING SERVICES, L.L.C.
GEOTECHNICAL ENGINEERS
3011 28TH STREET METAIRIE, LOUISIANA

SIEVE AND HYDROMETER TEST
COMPOSITE #1
SELF-WEIGHT CONSOLIDATION SAMPLE

LAKE HERMITAGE
MARSH CREATION
PLAQUEMINES PARISH, LOUISIANA
PROJECT BA-42 DNR CONTRACT NO. 2503-05-46

DRAWN BY: B.M.C.	JUNE 2007	
CHECKED BY: P.R.	JOB NO.: 19666	

PARTICLE SIZE ANALYSIS -- ASTM D 422



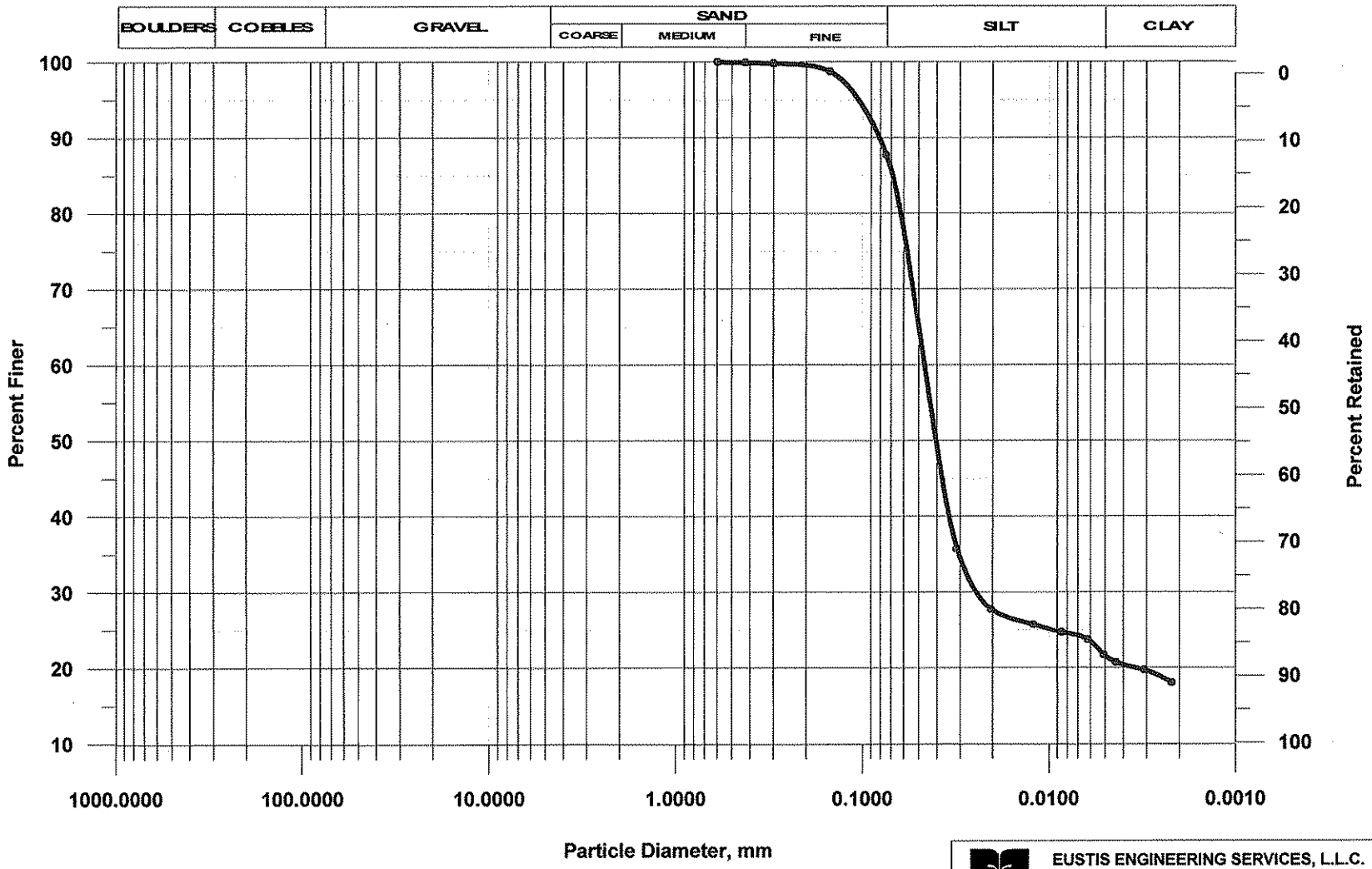
EUSTIS ENGINEERING SERVICES, L.L.C.
GEOTECHNICAL ENGINEERS
3011 28TH STREET METAIRIE, LOUISIANA

SIEVE AND HYDROMETER TEST
COMPOSITE #3
Borings B-7, B-8 and B-11

LAKE HERMITAGE
MARSH CREATION
PLAQUEMINES PARISH, LOUISIANA
PROJECT BA-42 DNR CONTRACT NO. 2503-05-46

DRAWN BY: B.M.C.	JUNE 2007	
CHECKED BY: P.R.	JOB NO.: 19666	

PARTICLE SIZE ANALYSIS -- ASTM D 422



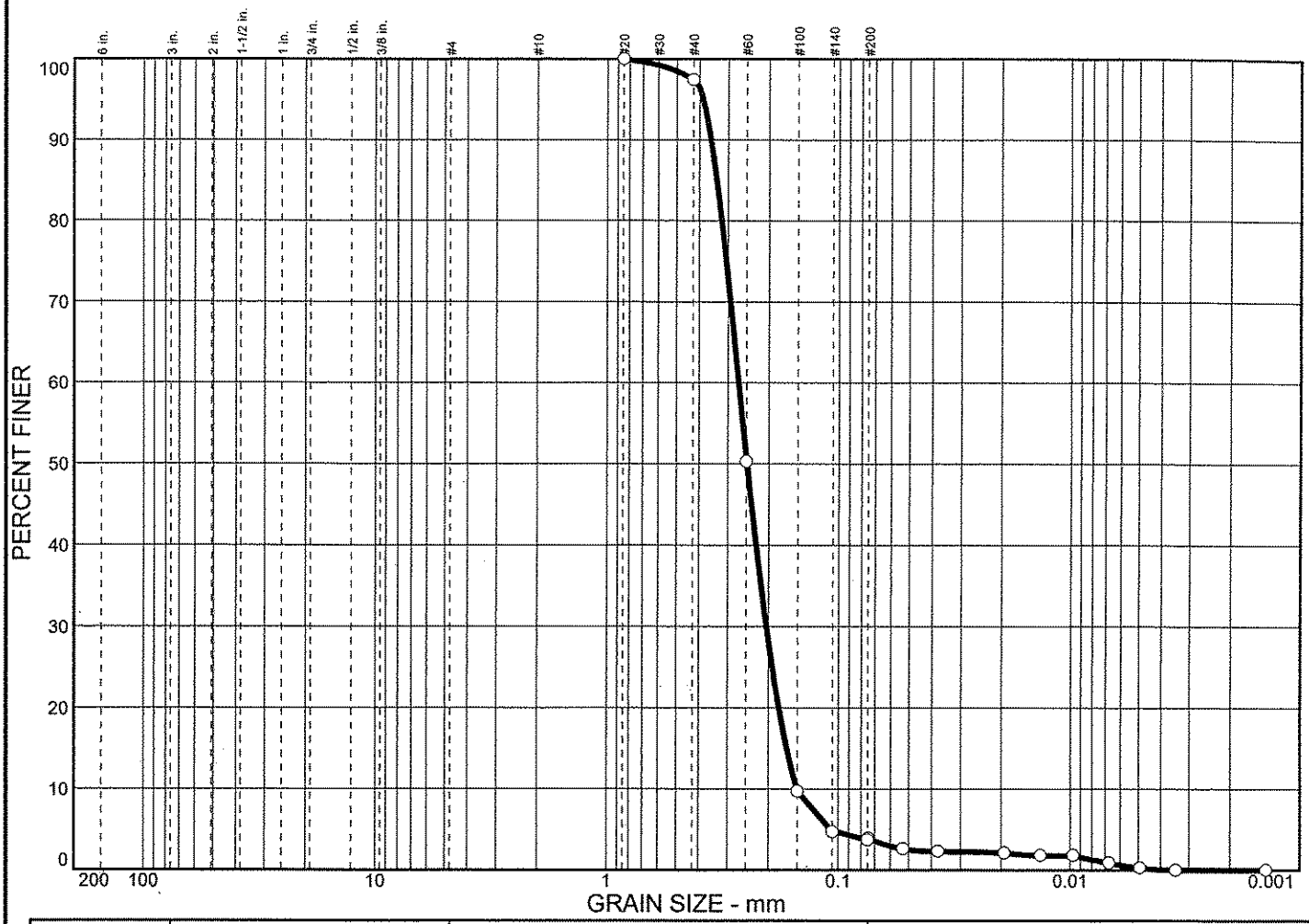
EUSTIS ENGINEERING SERVICES, L.L.C.
GEOTECHNICAL ENGINEERS
3011 28TH STREET METAIRIE, LOUISIANA

SIEVE AND HYDROMETER TEST
COMPOSITE #4
B-9, B-10 AND B-12

LAKE HERMITAGE
MARSH CREATION
PLAQUEMINES PARISH, LOUISIANA
PROJECT BA-42 DNR CONTRACT NO. 2503-05-46

DRAWN BY: B.M.C.	JUNE 2007	
CHECKED BY: P.R.	JOB NO.: 19666	

Particle Size Distribution Report



	% COBBLES	% GRAVEL		% SAND			% FINES	
		CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
○	0.0	0.0	0.0	0.0	2.6	93.7	3.4	0.3

X	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.338	0.271	0.249	0.205	0.167	0.151	1.03	1.79

MATERIAL DESCRIPTION	USCS	AASHTO
○ MD G FISA	SP	

Project No. 19666 **Client:** HNTB CORPORATION

Project: STATE OF LOUISIANA

LAKE HERMITAGE MARSH CREATION (BA-42)

○ **Source:** RB-1 **Sample No.:** 4 **Elev./Depth:** 8.0

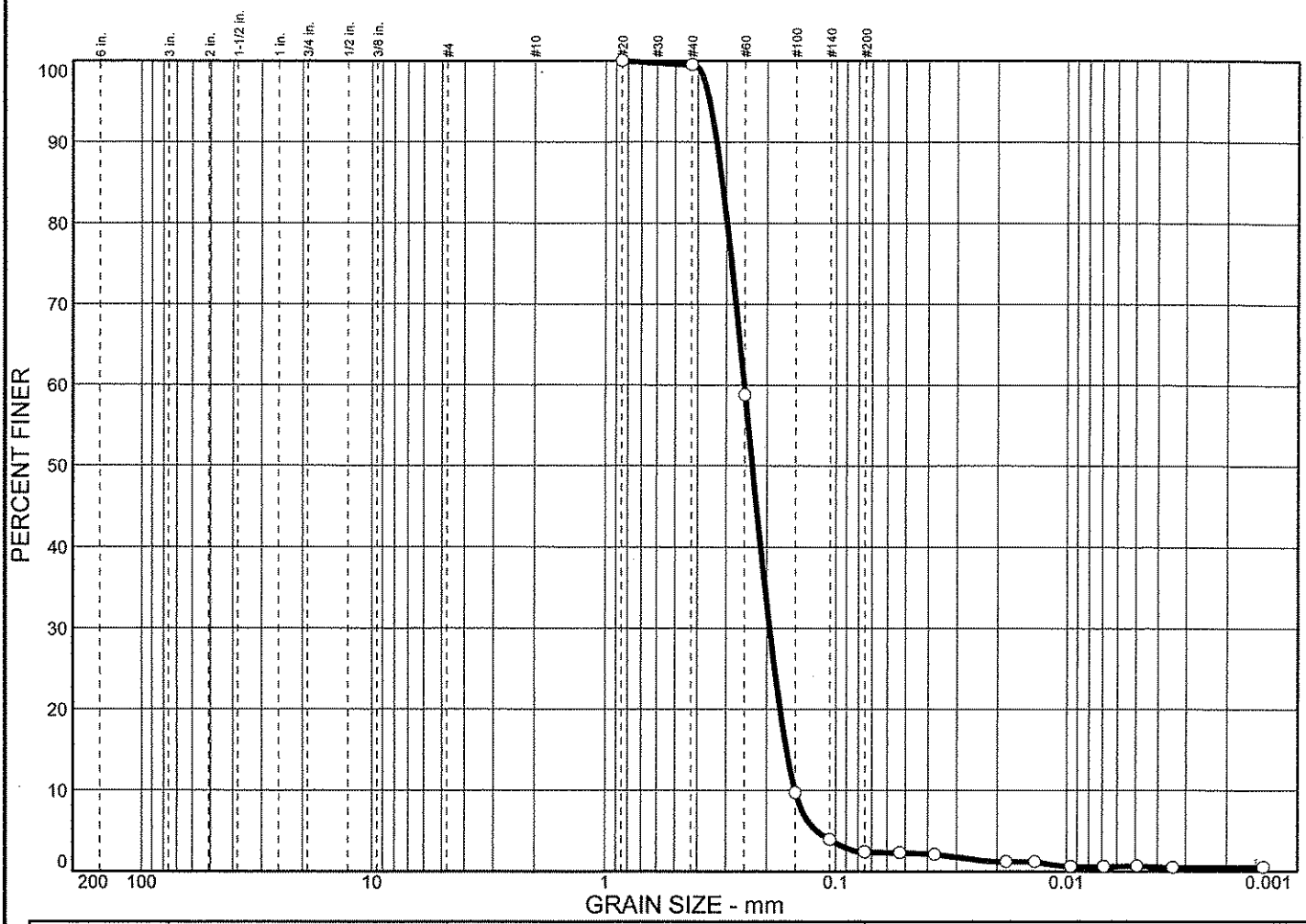
Remarks:

○

EUSTIS
Metairie, Louisiana
Lafayette, Louisiana
Gulfport, Mississippi

Figure

Particle Size Distribution Report



	% COBBLES	% GRAVEL		% SAND			% FINES	
		CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
○	0.0	0.0	0.0	0.0	0.5	97.1	1.7	0.7

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.315	0.252	0.233	0.195	0.165	0.151	1.00	1.67

MATERIAL DESCRIPTION	USCS	AASHTO
○ D G & T FISA	SP	

Project No. 19666 **Client:** HNTB CORPORATION

Project: STATE OF LOUISIANA

LAKE HERMITAGE MARSH CREATION (BA-42)

○ **Source:** RB-1 **Sample No.:** 7 **Elev./Depth:** 19.0

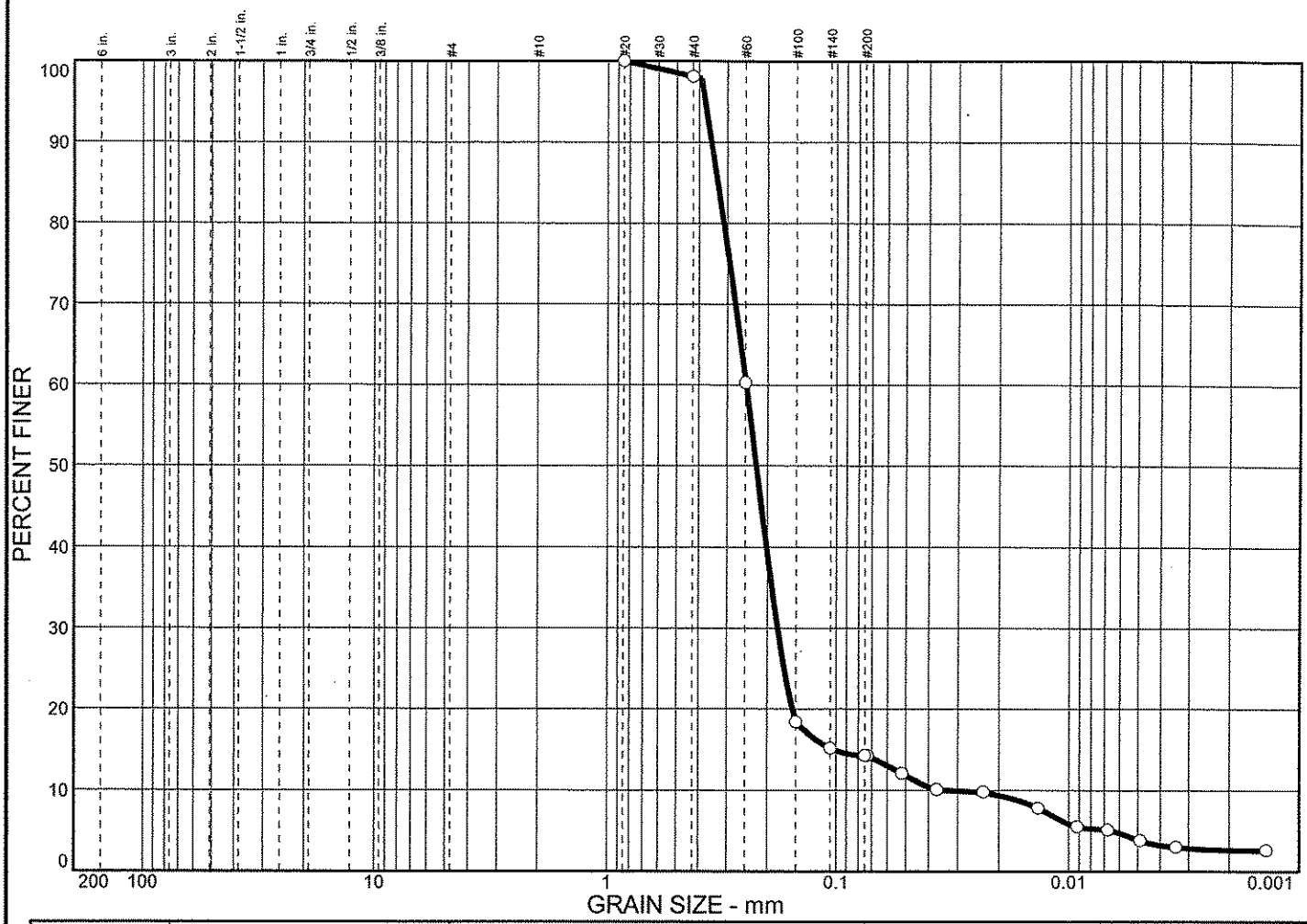
Remarks:

○

EUSTIS
Metairie, Louisiana
Lafayette, Louisiana
Gulfport, Mississippi

Figure

Particle Size Distribution Report



	% COBBLES	% GRAVEL		% SAND			% FINES	
		CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
○	0.0	0.0	0.0	0.0	1.9	83.8	10.4	3.9

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.333	0.249	0.225	0.181	0.102	0.0317	4.14	7.86

MATERIAL DESCRIPTION	USCS	AASHTO
○ D G FISA	SP	

Project No. 19666 **Client:** HNTB CORPORATION

Project: STATE OF LOUISIANA

LAKE HERMITAGE MARSH CREATION (BA-42)

○ **Source:** RB-1 **Sample No.:** 10 **Elev./Depth:** 34.0

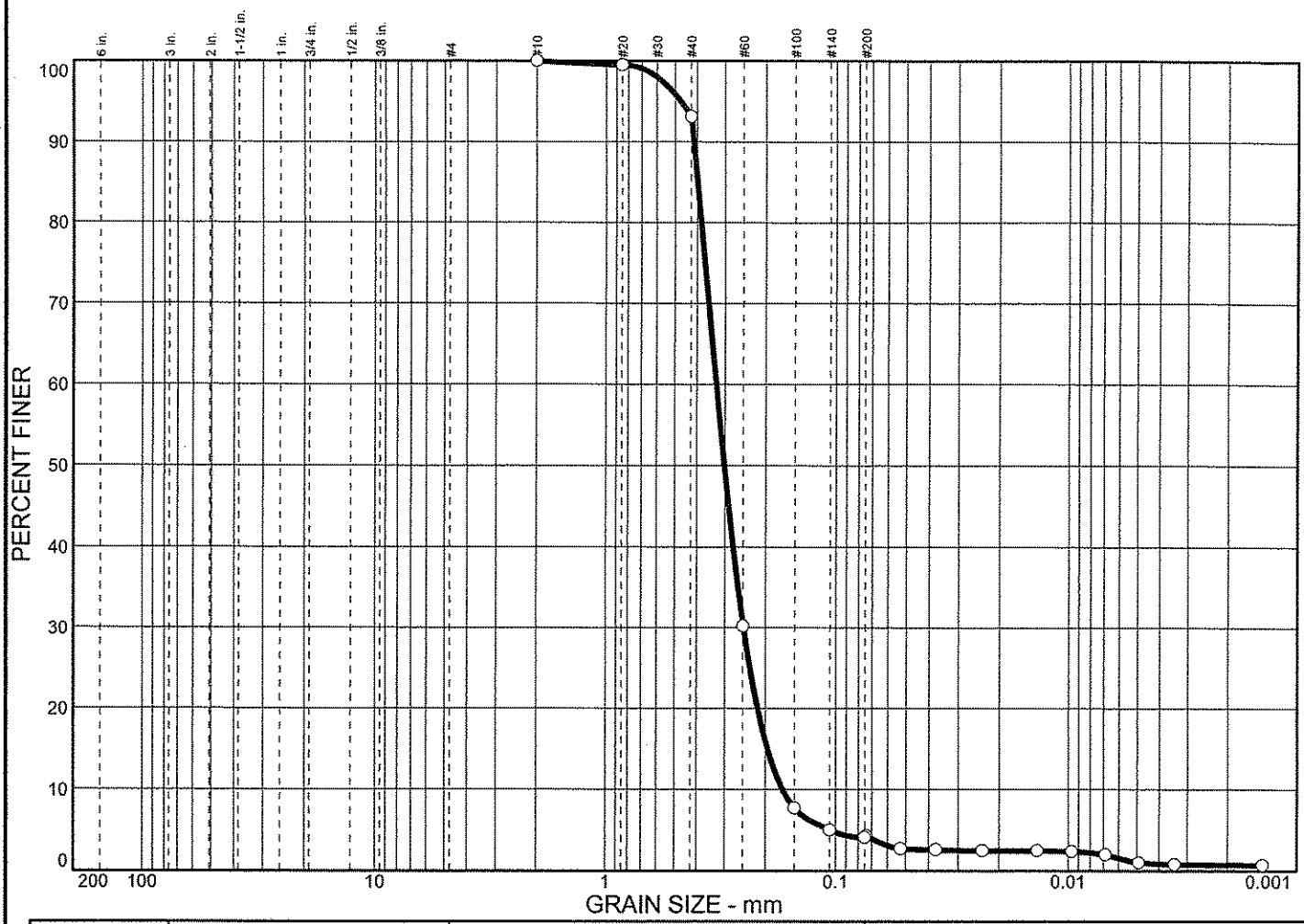
Remarks:

○

EUSTIS
Metairie, Louisiana
Lafayette, Louisiana
Gulfport, Mississippi

Figure

Particle Size Distribution Report



	% COBBLES	% GRAVEL		% SAND			% FINES	
		CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
○	0.0	0.0	0.0	0.0	6.9	89.0	3.1	1.0

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.400	0.330	0.304	0.249	0.196	0.169	1.12	1.95

MATERIAL DESCRIPTION	USCS	AASHTO
○ MD G & T MED - FISA W/ TR SH FRAG	SP	

Project No. 19666 **Client:** HNTB CORPORATION

Project: STATE OF LOUISIANA

LAKE HERMITAGE MARSH CREATION (BA-42)

○ **Source:** RB-2 **Sample No.:** 2 **Elev./Depth:** 3

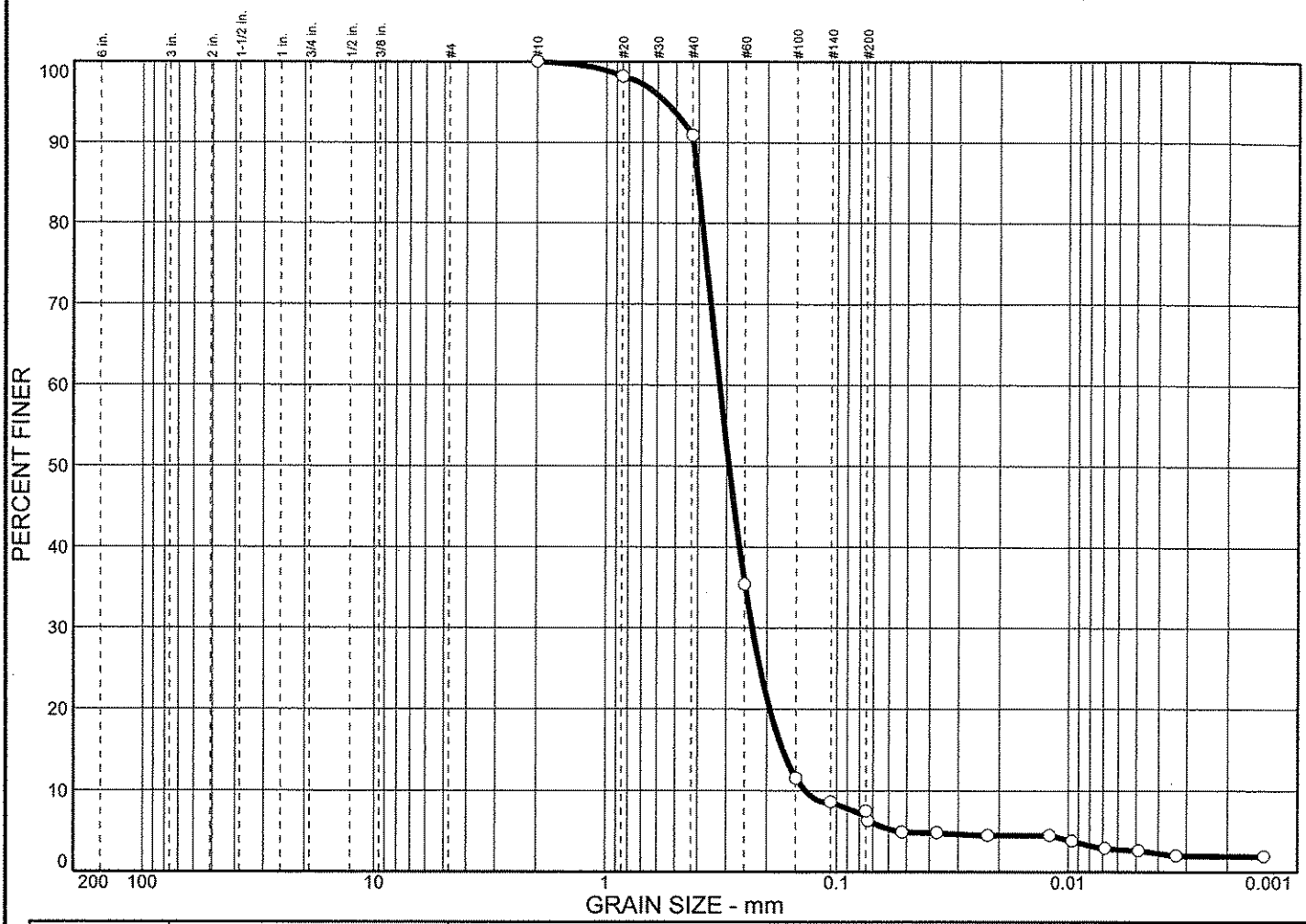
Remarks:

○

EUSTIS
Metairie, Louisiana
Lafayette, Louisiana
Gulfport, Mississippi

Figure

Particle Size Distribution Report



	% COBBLES	% GRAVEL		% SAND			% FINES	
		CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
○	0.0	0.0	0.0	0.0	9.1	83.4	4.9	2.6

X	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.404	0.323	0.294	0.232	0.171	0.136	1.22	2.37

MATERIAL DESCRIPTION	USCS	AASHTO
○ MD G & T FISA W/ TR SH FRAG	SP	

Project No. 19666 **Client:** HNTB CORPORATION

Project: STATE OF LOUISIANA

LAKE HERMITAGE MARSH CREATION (BA-42)

○ **Source:** RB-2 **Sample No.:** 4 **Elev./Depth:** 9

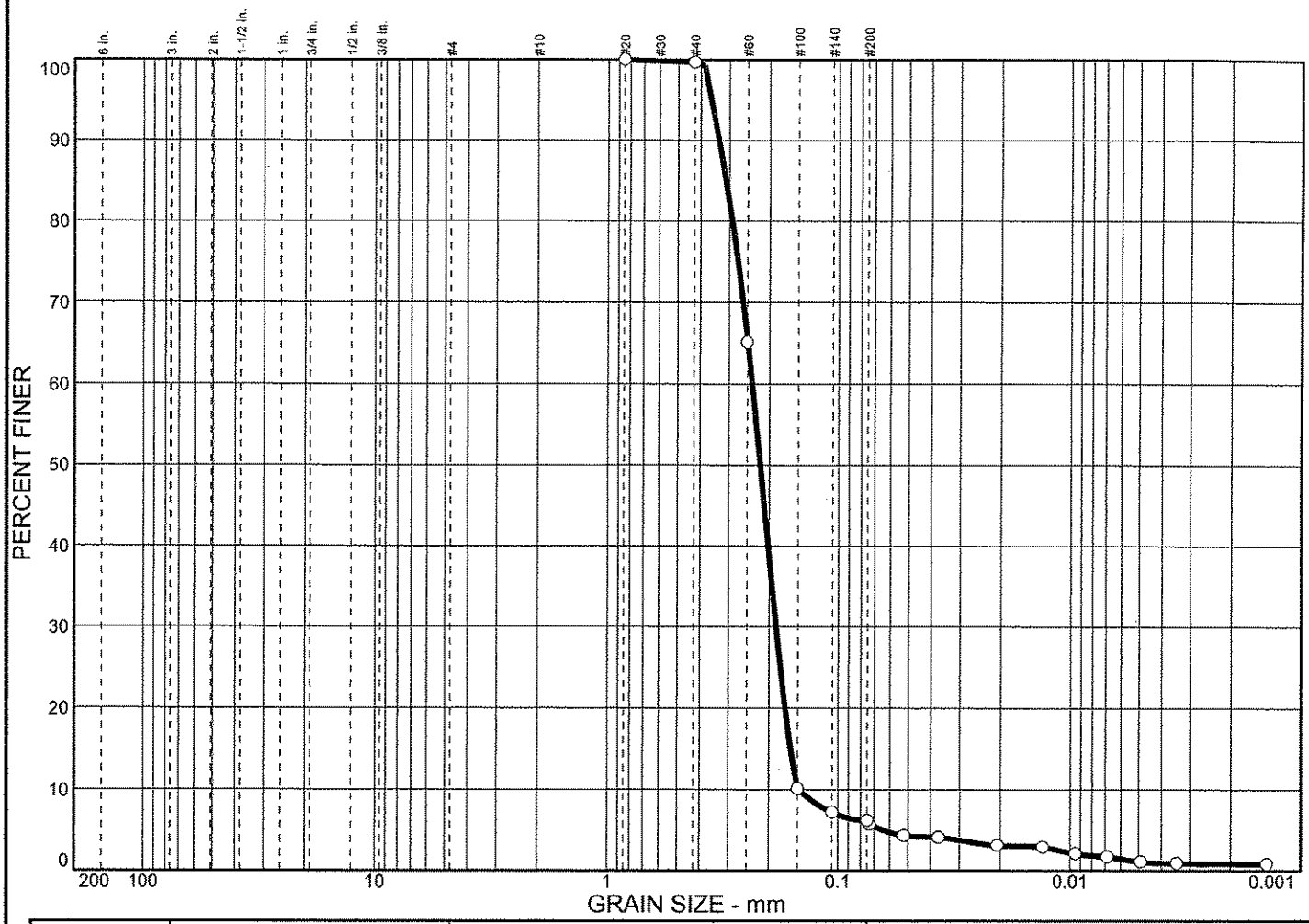
Remarks:

○

EUSTIS
Metairie, Louisiana
Lafayette, Louisiana
Gulfport, Mississippi

Figure

Particle Size Distribution Report



	% COBBLES	% GRAVEL		% SAND			% FINES	
		CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
○	0.0	0.0	0.0	0.0	0.3	93.5	5.1	1.1

X	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.312	0.239	0.220	0.187	0.161	0.149	0.99	1.61

MATERIAL DESCRIPTION	USCS	AASHTO
○ LO G FISA	SP	

Project No. 19666 **Client:** HNTB CORPORATION

Project: STATE OF LOUISIANA

LAKE HERMITAGE MARSH CREATION (BA-42)

○ **Source:** RB-2 **Sample No.:** 5 **Elev./Depth:** 12

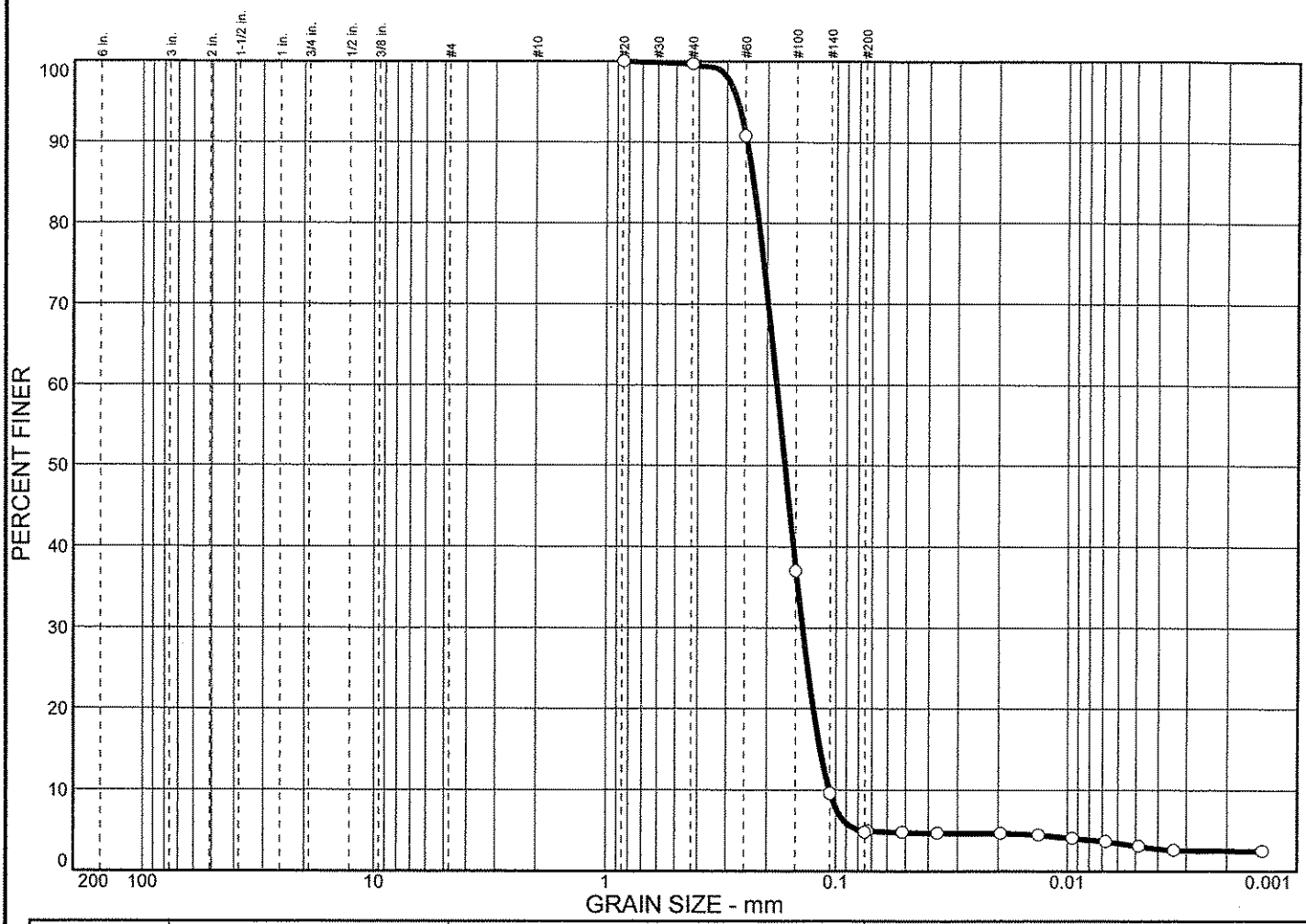
Remarks:

○

EUSTIS
Metairie, Louisiana
Lafayette, Louisiana
Gulfport, Mississippi

Figure

Particle Size Distribution Report



	% COBBLES	% GRAVEL		% SAND			% FINES	
		CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
○	0.0	0.0	0.0	0.0	0.3	94.9	1.6	3.2

X	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.231	0.183	0.168	0.140	0.117	0.107	1.01	1.71

MATERIAL DESCRIPTION	USCS	AASHTO
○ MD G FISA	SP	

Project No. 19666 **Client:** HNTB CORPORATION

Project: STATE OF LOUISIANA

LAKE HERMITAGE MARSH CREATION (BA-42)

○ **Source:** RB-2 **Sample No.:** 6 **Elev./Depth:** 18.5

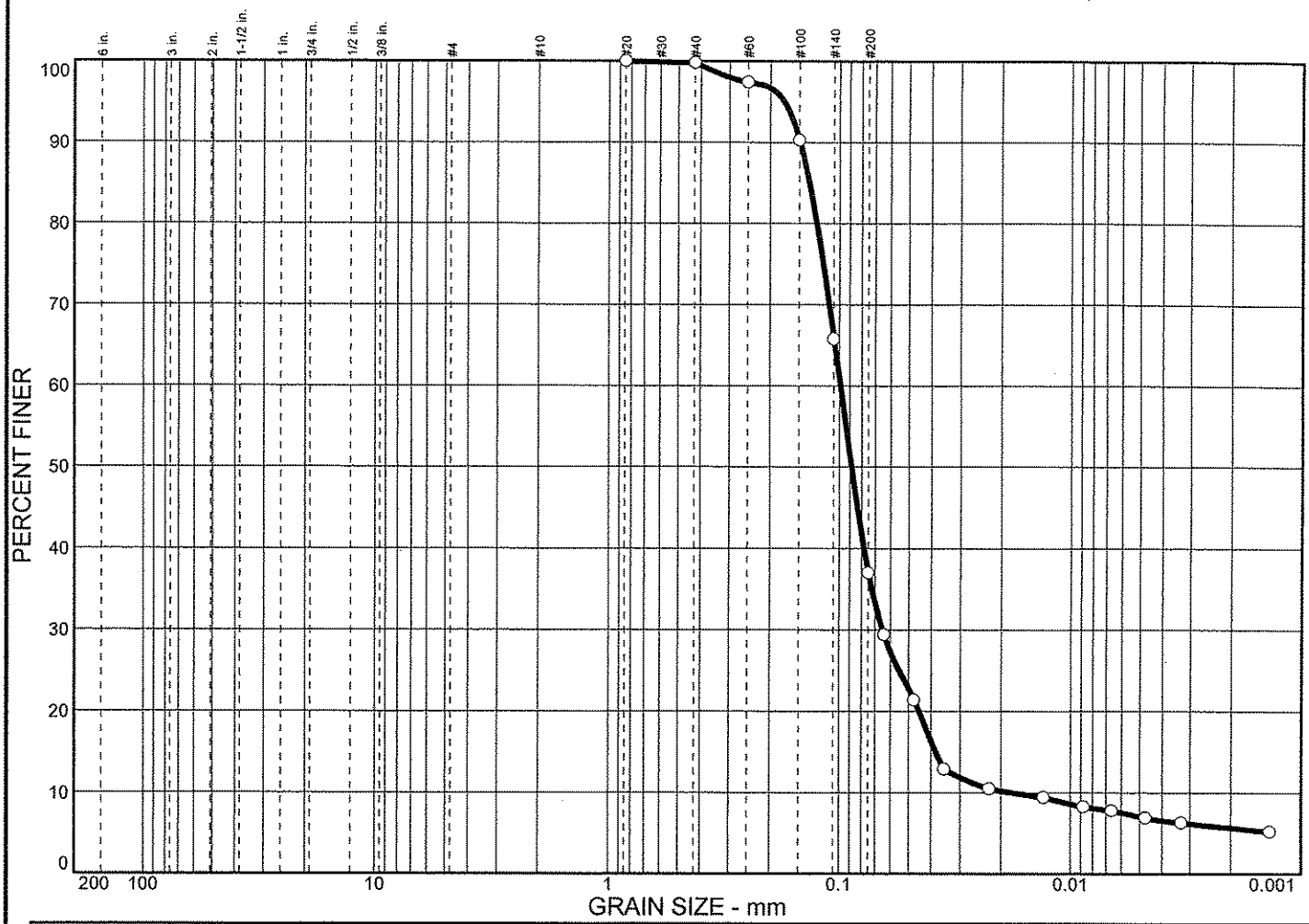
Remarks:

○

EUSTIS
Metairie, Louisiana
Lafayette, Louisiana
Gulfport, Mississippi

Figure

Particle Size Distribution Report



	% COBBLES	% GRAVEL		% SAND			% FINES	
		CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
○	0.0	0.0	0.0	0.0	0.2	62.8	30.0	7.0

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.136	0.0994	0.0889	0.0652	0.0383	0.0178	2.40	5.58

MATERIAL DESCRIPTION	USCS	AASHTO
○ MD G SISA	SM	

Project No. 19666 **Client:** HNTB CORPORATION

Project: STATE OF LOUISIANA

LAKE HERMITAGE MARSH CREATION (BA-42)

○ **Source:** RB-2 **Sample No.:** 7 **Elev./Depth:** 23.5

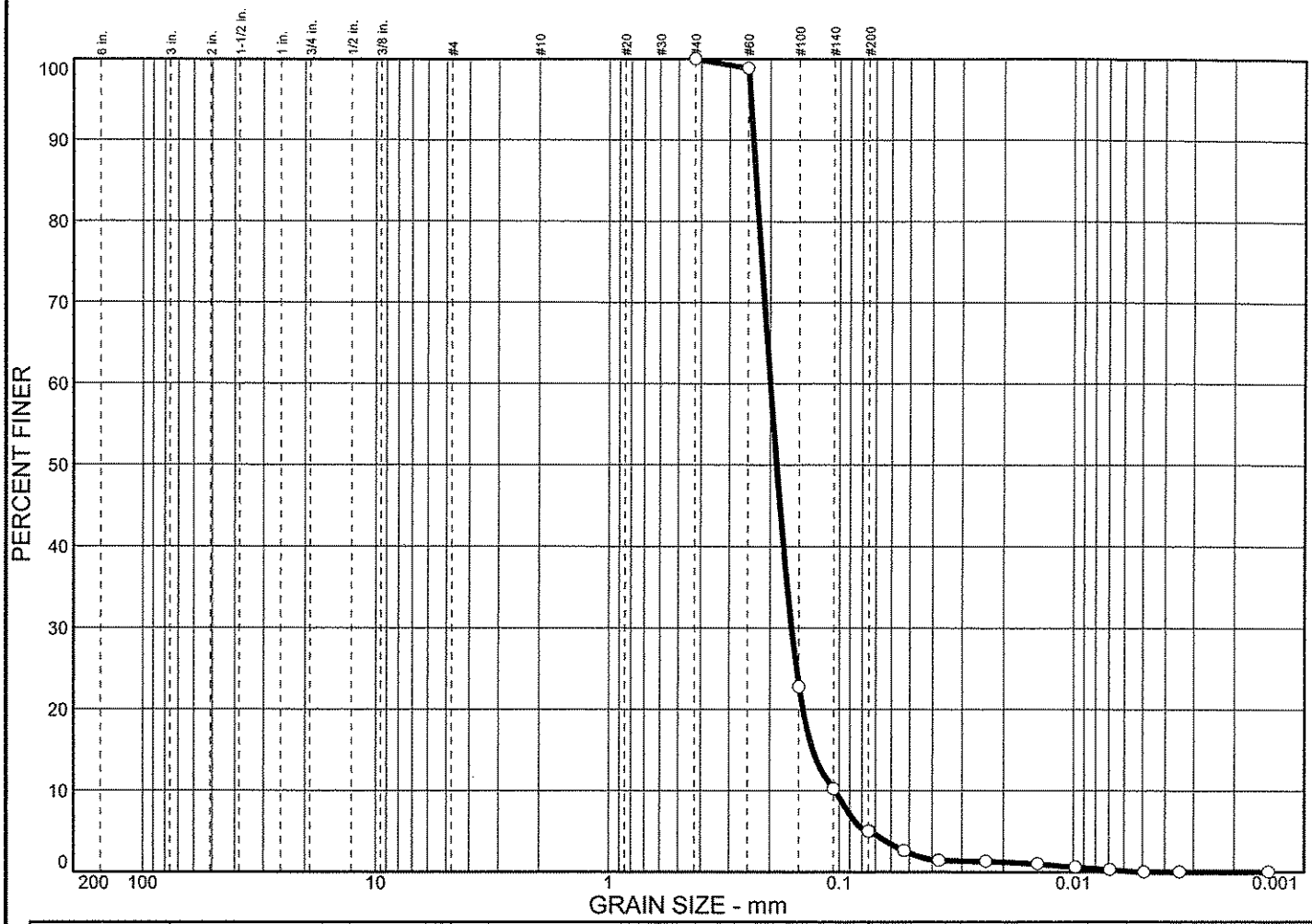
Remarks:

○

EUSTIS
Metairie, Louisiana
Lafayette, Louisiana
Gulfport, Mississippi

Figure

Particle Size Distribution Report



	% COBBLES	% GRAVEL		% SAND			% FINES	
		CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
○	0.0	0.0	0.0	0.0	0.0	95.0	5.0	0.0

X	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.232	0.201	0.188	0.162	0.131	0.105	1.24	1.91

MATERIAL DESCRIPTION	USCS	AASHTO
○ D G & T FISA	SP	

Project No. 19666 **Client:** HNTB CORPORATION

Project: STATE OF LOUISIANA

LAKE HERMITAGE MARSH CREATION (BA-42)

○ **Source:** RB-2 **Sample No.:** 9 **Elev./Depth:** 33.5

Remarks:

○

EUSTIS
Metairie, Louisiana
Lafayette, Louisiana
Gulfport, Mississippi

Figure

Particle Size Distribution Report

	% COBBLES	% GRAVEL		% SAND			% FINES	
		CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
○	0.0	0.0	0.0	0.0	0.3	97.5	2.2	0.0

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.254	0.212	0.199	0.176	0.157	0.147	0.99	1.44

MATERIAL DESCRIPTION	USCS	AASHTO
○ VD G FISA	SP	

Project No. 19666 **Client:** HNTB CORPORATION

Project: STATE OF LOUISIANA

LAKE HERMITAGE MARSH CREATION (BA-42)

○ **Source:** RB-3 **Sample No.:** 2 **Elev./Depth:** 3.5

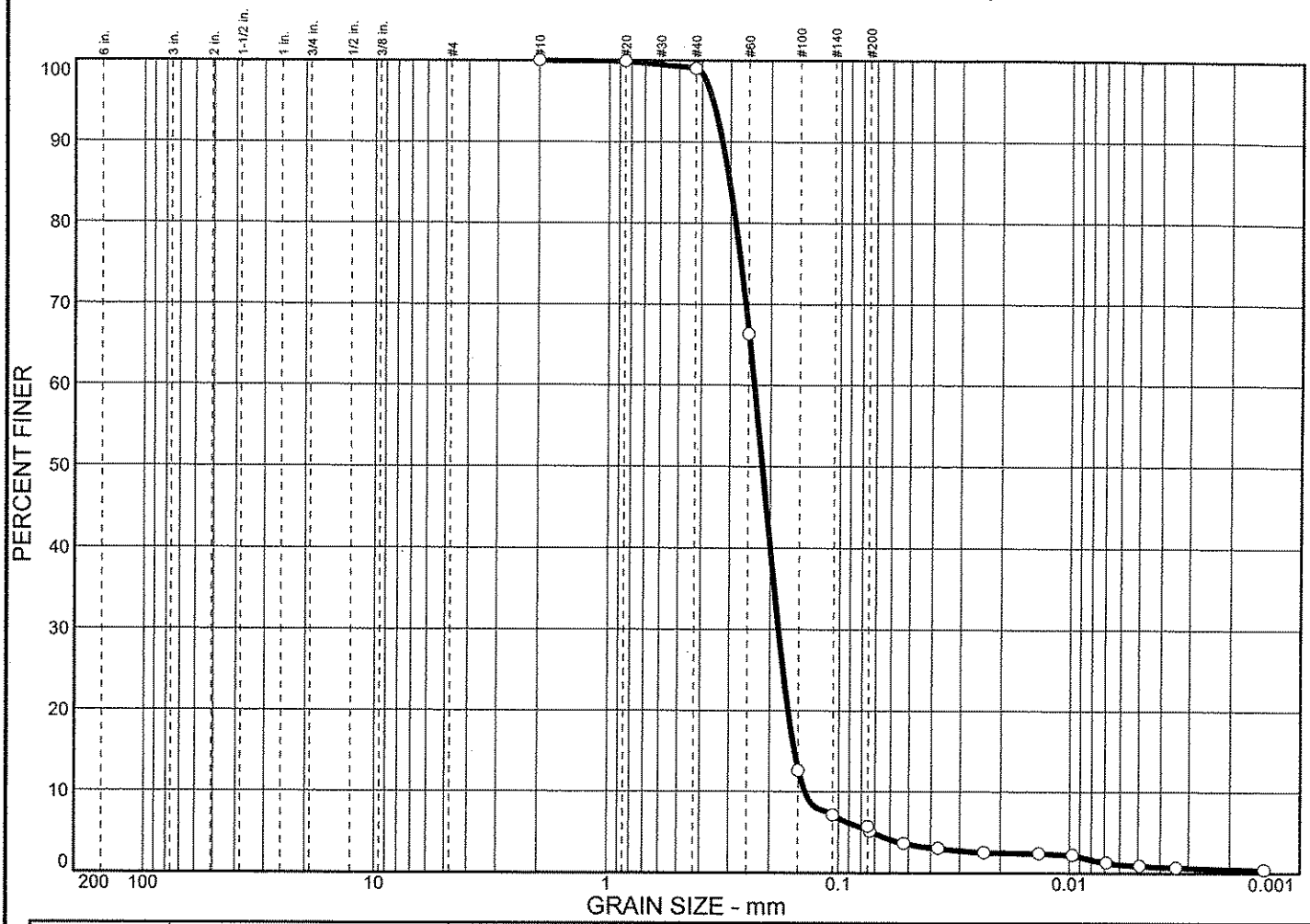
Remarks:

○

EUSTIS
Metairie, Louisiana
Lafayette, Louisiana
Gulfport, Mississippi

Figure

Particle Size Distribution Report



	% COBBLES	% GRAVEL		% SAND			% FINES	
		CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
○	0.0	0.0	0.0	0.0	1.0	93.3	4.8	0.9

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.305	0.237	0.218	0.184	0.156	0.141	1.02	1.68

MATERIAL DESCRIPTION	USCS	AASHTO
○ MD T FISA W/ TR SI & CL	SP-SM	

Project No. 19666 **Client:** HNTB CORPORATION

Project: STATE OF LOUISIANA

LAKE HERMITAGE MARSH CREATION (BA-42)

○ **Source:** RB-3 **Sample No.:** 4 **Elev./Depth:** 9

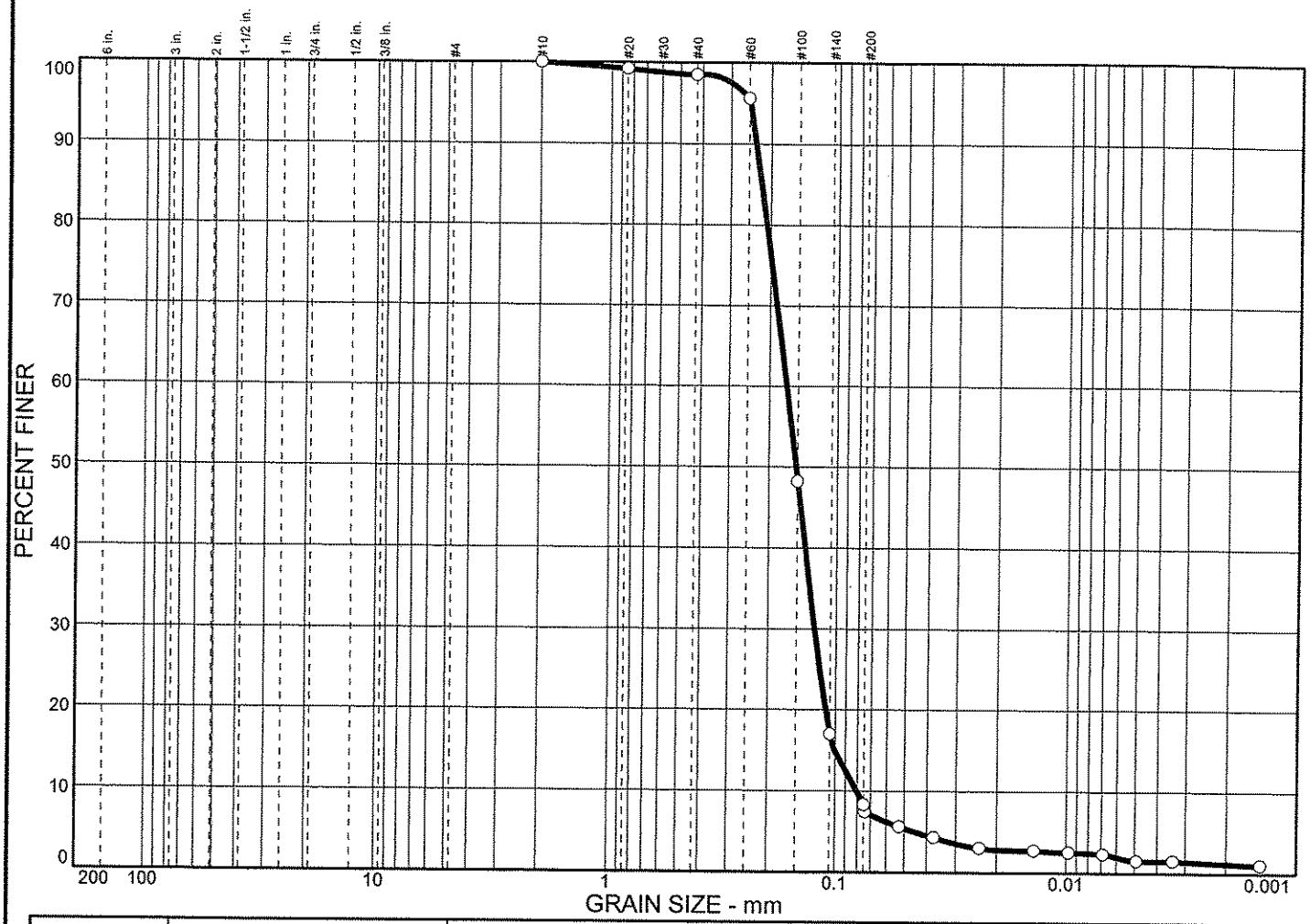
Remarks:

○

EUSTIS
Metairie, Louisiana
Lafayette, Louisiana
Gulfport, Mississippi

Figure

Particle Size Distribution Report



	% COBBLES	% GRAVEL		% SAND			% FINES	
		CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
○	0.0	0.0	0.0	0.0	1.5	90.2	6.8	1.5

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.221	0.169	0.153	0.125	0.101	0.0809	1.15	2.09

MATERIAL DESCRIPTION	USCS	AASHTO
○ MD G FISA W/ SI, TR DEC WD	SP-SM	

Project No. 19666 **Client:** HNTB CORPORATION

Project: STATE OF LOUISIANA

LAKE HERMITAGE MARSH CREATION (BA-42)

○ **Source:** RB-3 **Sample No.:** 6 **Elev./Depth:** 19.0

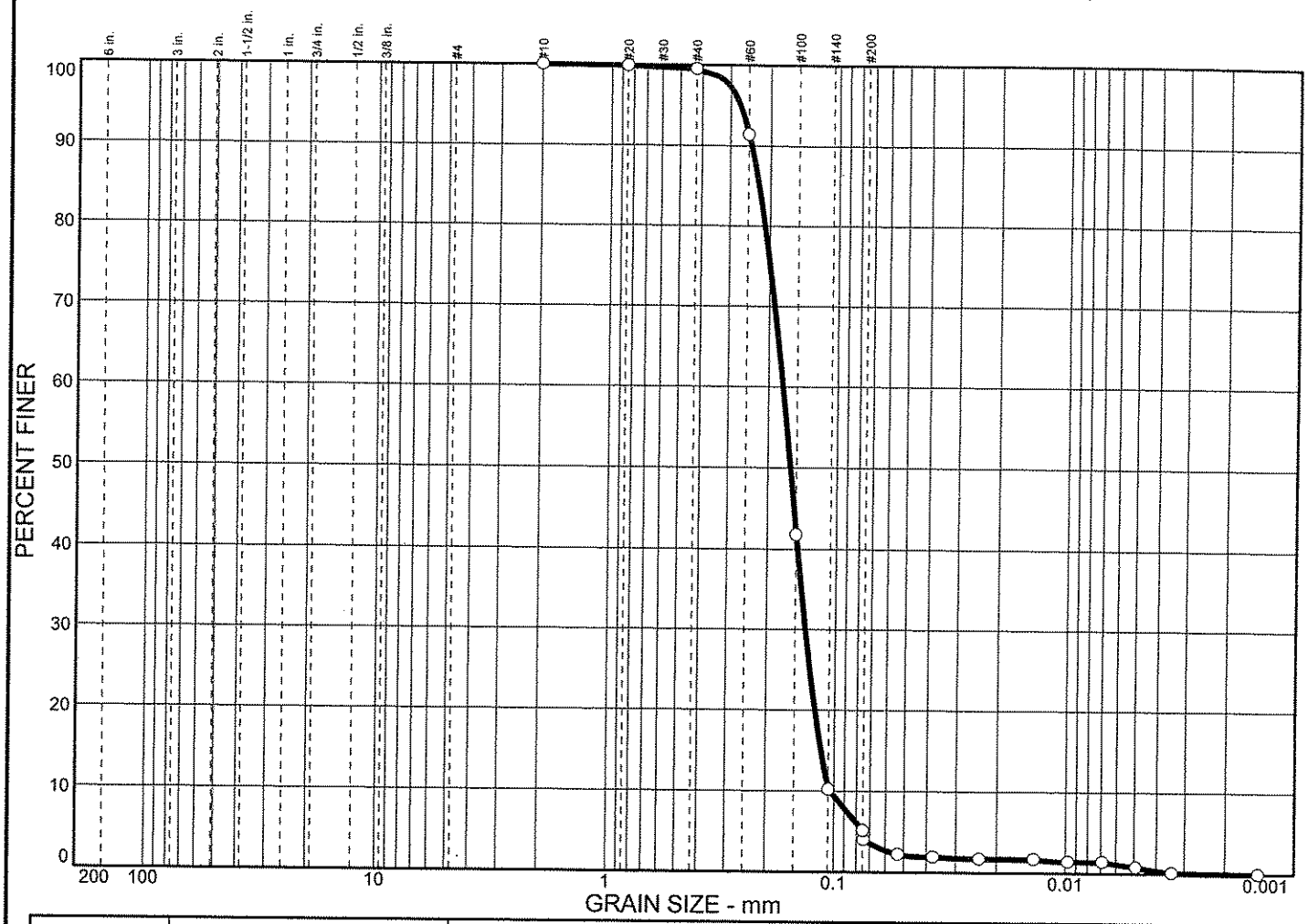
Remarks:

○

EUSTIS
Metairie, Louisiana
Lafayette, Louisiana
Gulfport, Mississippi

Figure

Particle Size Distribution Report



	% COBBLES	% GRAVEL		% SAND			% FINES	
		CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
○	0.0	0.0	0.0	0.0	0.5	94.4	4.3	0.8

X	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.225	0.174	0.160	0.136	0.115	0.105	1.02	1.66

MATERIAL DESCRIPTION	USCS	AASHTO
○ MD T FISA W/ TR SI & CL	SP-SM	

Project No. 19666 **Client:** HNTB CORPORATION

Project: STATE OF LOUISIANA

LAKE HERMITAGE MARSH CREATION (BA-42)

○ **Source:** RB-3 **Sample No.:** 8 **Elev./Depth:** 28.5

Remarks:

○

EUSTIS
Metairie, Louisiana
Lafayette, Louisiana
Gulfport, Mississippi

Figure

Particle Size Distribution Report

	% COBBLES	% GRAVEL		% SAND			% FINES	
		CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
○	0.0	0.0	0.0	0.0	0.2	92.5	5.6	1.7

☒	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.208	0.155	0.142	0.121	0.0982	0.0824	1.14	1.88

MATERIAL DESCRIPTION	USCS	AASHTO
○ MD T & G FISA W/ SI & TR CL	SP-SM	

Project No. 19666 **Client:** HNTB CORPORATION

Project: STATE OF LOUISIANA

LAKE HERMITAGE MARSH CREATION (BA-42)

○ **Source:** RB-3 **Sample No.:** 10 **Elev./Depth:** 38.5

Remarks:

○

EUSTIS
Metairie, Louisiana
Lafayette, Louisiana
Gulfport, Mississippi

Figure