



October 1, 2007
Project No. 20072247V1

Mr. Ranajit Sahu, C.E.M., Ph.D.
Basic Remediation Company
875 West Warm Springs Road
Henderson, Nevada 89011

RE: Eastside Geotech Sampling, Henderson, Nevada

PROVIDING

- Geotechnical Engineering
- Construction Materials Engineering
- Environmental Engineering
- Drilling Services

Dear Dr. Sahu:

On September 13, 2007 Geotechnical and Environmental Services, Inc. (GES) implemented sampling 26 total locations predetermined by BRC. This activity report details the scope of services performed, which consisted of the following:

- Survey of each sample location with a GPS Trimble ProXH Unit.
- Sampled locations included each of the sixteen (16) Timet Ponds and ten (10) Upper Pond samples (See Figure 2 and Table 1 for sample descriptions). General site conditions and visual material descriptions were made for each sample. The soil samples were submitted to the GES laboratory for the following analysis: sieve/minus #200 wash, Atterberg Limits, Maximum Density (proctor), and moisture content.

Field Investigation Methodology

Soils - Soil samples were taken from twenty six (26) locations with a shovel from depths ranging from approximately two (2) inches to three (3) feet. At many locations, native soil was washed or blown over the pond material, and was removed prior to sample collection. Approximately fifty (50) pounds of pond material were placed in each bulk bag. After each bag was filled, the tops were twisted and sealed with duct tape to prevent moisture loss prior to laboratory analysis. Field condition descriptions were given for samples that were taken from areas where there was very little pond material present (Table 1).

Soil samples were logged according to the USCS Classification by a qualified Geologist. The USCS classification and color of each sample presented in Table 1 is based upon visual characteristics and laboratory analysis.

Laboratory analysis of each sample is presented in the enclosures at the back of this report. At each sample location, the samples were collected in a clean plastic bulk bag. Each sample was provided a unique sampling number with the following designation: Sample Location, Project Number, Date, and Bag Number. For example, the first sampling location was identified as TP04, 20072247V1, 9/13/07. The soil samples were transported directly to the GES soil testing lab.

We appreciate this opportunity to provide our professional services. If you have questions or comment, feel free to contact our office at (702) 365-1001.

Sincerely,

Geotechnical & Environmental Services, Inc.



Monty Mehlhorn
Staff Geologist

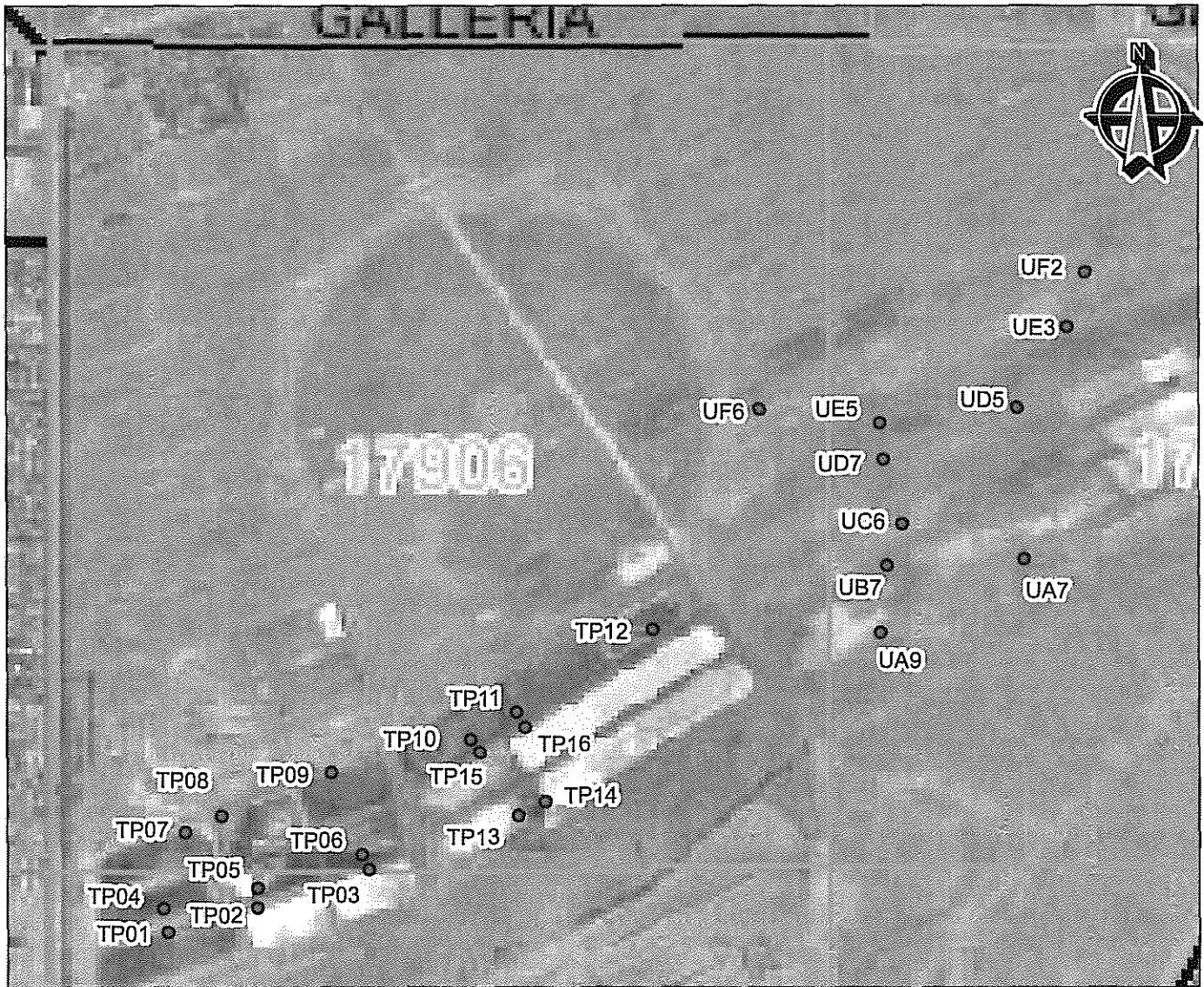


Kyle S. Hansen
Environmental Program Manager

vm

Enc.: Figure 2
Table 1
Field Activity Report (1)
Laboratory Results (1)

Dist: 2 originals mailed to addressee
1 pdf e-mailed to addressee at sahuron@earthlink.net
1 cc to project file



Legend

- Bulk Sample Location



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7150 Placid St.
Las Vegas, NV 89119

702-365-1001
www.gesnevada.com

NOTE: Data presented on this map is a compilation of GIS Metadata extracted from a variety of sources. Major Streets, Freeways, Mapped Washes and Clark County mapped faults is all data obtained from the Southern Nevada GIS Management Office. This data is downloaded by GES for incorporation into drawings generated by GES. Data contained within this page is to be used for informational purposes only. GES has not modified the data contained herein and uses it as it is acquired from the respective agency.

Bulk Sample Location Map BRC Eastside Geotech Sampling

Drawn By: MM	Date Drawn: 9/14/07
Project No. 20072247V1	Figure No. 2

TABLE 1
POND MATERIAL SUMMARY

Pond	Material Description
TP1	Black (10 YR 2/1) sandy SILT (ML, sludge), moist and soft.
TP2	White (10 YR 8/1) SILT (ML, salt crust), moist and hard. Very pale brown (10 YR 2/2) SILT (ML, salt), wet and soft.
TP3	White (10 YR 8/1) SILT (ML, salt crust), dry and hard. Light gray (10 YR 7/1) SILT (ML, salt), loose and wet.
TP4	Mottled dark brown (7.5 YR 3/3) SILT (ML, sludge), wet and soft.
TP5	Dark yellowish brown (10 YR 3/6) SILT (ML) moist and soft.
TP6	Light yellowish brown (10 YR 6/4) SILT (ML), moist
TP7	Dark olive brown (2.5 Y 3/3) SILT (ML), wet and loose.
TP8	Black (2.5 YR 2/1) SILT (ML, sludge), wet and soft.
TP9	Dark brown (7.5 YR 3/4) SILT (ML, sludge), wet and soft.
TP10	Dark yellowish brown (10 YR 4/4) SILT (ML, sludge), wet and soft.
TP11	Black (10 YR 2/1) SILT (ML, sludge), wet and soft.
TP12	Red (2.5 YR 4/8) SILT (ML, salt), wet and soft.
TP13	Pale yellow brown (2.5 Y 7/3) SILT (ML, salt crystals), wet and soft. Salt crust occurs as several layers.
TP14	Very pale brown (10 YR 2/2) silty SAND (SM, sand as salt crystals), moist and loose.
TP15	Light yellowish brown (2.5 YR 6/6) SILT (ML, Salt crust) dry and firm. Light yellowish brown (2.5 YR 6/6) SILT (ML, sludge), wet and firm.
TP16	Yellowish brown (10 YR 6/6) SILT (ML, salt), wet and soft.
UA7	Greenish gray (5 GY 5/1) silty SAND (SM), dry and medium dense. 6" thick.
UA9	Greenish gray (5 GY 5/1) SILT (ML), dry and stiff. 1.0' thick.
UB9	Greenish gray (5 GY 5/1) SILT with sand (ML), dry and stiff. 1.0' thick.
UC6	Greenish gray (5 GY 5/1) silty SAND (SM), dry and stiff. Greater than 2.0' thick.
UD5	Greenish gray (5 GY 5/1) well-graded SAND with silt (SW-SM), dry and stiff. Sediment confined to depressions only.
UD7	Greenish gray (5 GY 5/1) silty SAND (SM), dry and medium dense. 1.0' thick.
UE3	Greenish gray (5 GY 5/1) silty SAND (SM), dry and medium dense. Sediment is 2" thick, confined to depressions only.
UE5	Greenish gray (5 GY 5/1) silty SAND (SM), dry and medium dense. 6" thick.
UF2	Greenish gray (5 GY 5/1) silty SAND (SM), dry and stiff. 2" thick, native material could not be separated in field.
UF6	Greenish gray (5 GY 5/1) silty SAND with gravel (SM), dry and medium dense. 1" thick, native material could not be separated in field.



FIELD ACTIVITY REPORT

Report Number/Date:

9/13/07

Project Name:

BRC - Eastside Geotech Sampling

Project Number:

2007 Z247V1

Report By:

Monty Mehlhorn

Personnel:

Phil Brinkerhoff

Location:

BRC Commons Area

Equipment: Trimble ProXH, Shovel

Client:

BRC

Weather:

Windy, Partly Cloudy, 290°F

0700 We arrive at BRC Commons Area; perform site recon.

0715 Arrive, prepare for sampling at TP01.

0740 Collect TP01 bulk.

0750 Collect TP04 bulk.

0805 Collect TP02 bulk.

0810 Collect TP03-TP05 bulk.

0820 Collect TP03 bulk.

0830 Collect TP06 bulk.

0845 Collect TP09 bulk.

0900 Collect TP08 bulk.

0915 Collect TP09 bulk.

0935 Collect TP10 and TP15 bulks.

0945 Collect TP11 and TP16 bulks.

1010 Collect TP12 bulk.

1030 Collect TP13 and TP14 bulks.

1042 Leave site. Go to GES office to deliver 1st batch of samples.

1230 Depart site. Arrive GES office.

1315 Arrive at UF-2 site. Prepare GPS and equipment. There is only a trace of fine-grained material at this site.

1325 Collect UF2. Only to 2" appeared as precipitate.

1345 Collect UF-6; ~1" of material.

1400 Collect UF-3; ~2" of material in depressions.

1410 Collect UD-5; sediment confined to depressions.

1420 Collect UF-5; ~6" of sediment.

1425 Collect UD-7; ~1.0' of sediment.

1440 Collect UC-6; ~2' of sediment.

1450 Collect UB-9; same as above.

1455 Collect UA-7; 6" sediment.

1510 UA-10 is filled; sample UA-9.

1520 UA-9 sampled; 1' of sediment.

1525 Leave site.

1600 Arrived at GES office

Printed Name/Signature: Monty Mehlhorn / Monty Mehlhorn

Page 1 of 1



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Moisture Content Log

Project Name: EASTSIDE GEOTECH SAMPLING

Project No.: 20072247V1

Lab No.: 8670

Date Sampled: 09/13/07

Tested By: AS

Date: 9/18/2007

Sample:	TP-1	TP-2	TP-3	TP-4	TP-5	TP-6
Depth:						
WET WT. + TARE	267.27	330.46	325.83	413.90	428.90	296.69
DRY WT. + TARE	183.14	317.66	321.10	302.12	294.86	204.68
TARE WT.	106.90	105.12	99.80	160.90	168.40	100.70
DRY WT.	76.24	212.54	221.30	141.22	126.46	103.98
WEIGHT LOST	84.13	12.80	4.73	111.78	134.04	92.01
% MOISTURE	110.3	6.0	2.1	79.2	106.0	88.5

Remarks/Condition: _____



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Project No.: 20072247V1

Lab No.: 8670

Date Sampled: 09/13/07

Tested By: AS

Date: 9/18/2007

Sample:	TP-7	TP-8	TP-9	TP-10	TP-11	TP-12
Depth:						
WET WT. + TARE	265.70	208.75	216.64	205.60	199.10	439.80
DRY WT. + TARE	217.89	154.80	163.75	158.93	145.33	388.78
TARE WT.	162.70	101.40	99.00	99.70	100.20	95.10
DRY WT.	55.19	53.40	64.75	59.23	45.13	293.68
WEIGHT LOST	47.81	53.95	52.89	46.67	53.77	51.02
% MOISTURE	86.6	101.0	81.7	78.8	119.1	17.4

Remarks/Condition: _____



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Project Name: EASTSIDE GEOTECH SAMPLING

Project No.: 20072247V1

Lab No.: 8670

Date Sampled: 09/13/07

Tested By: AS

Date: 9/18/2007

Sample:	TP-13	TP-14	TP-15	TP-16	UA-7	UA-9
Depth:						
WET WT. + TARE	281.70	1226.00	362.05	366.02	381.35	261.28
DRY WT. + TARE	215.37	978.47	315.31	281.59	365.53	253.90
TARE WT.	98.80	162.30	104.00	103.90	100.95	107.40
DRY WT.	116.57	816.17	211.31	177.69	264.58	146.50
WEIGHT LOST	66.33	247.53	46.74	84.43	15.82	7.38
% MOISTURE	56.9	30.3	22.1	47.5	6.0	5.0

Remarks/Condition: _____



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Moisture Content Log

Project Name: EASTSIDE GEOTECH SAMPLING			Project No.: 20072247V1			Lab No.: 8670
Date Sampled: 09/13/07			Tested By: AS			Date: 9/18/2007
Sample:	UA-10	UB-9	UC-6	UD-5	UD-7	UE-3
Depth:	NO SAMPLE					
WET WT. + TARE		288.36	498.02	667.92	435.49	723.51
DRY WT. + TARE		273.28	475.00	654.38	419.71	714.63
TARE WT.		100.37	160.85	163.56	170.01	116.96
DRY WT.		172.91	314.15	490.82	249.70	597.67
WEIGHT LOST		15.08	23.02	13.54	15.78	8.88
% MOISTURE		8.7	7.3	2.8	6.3	1.5

Remarks/Condition: _____



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Moisture Content Log

Project Name: EASTSIDE GEOTECH SAMPLING

Project No.: 20072247V1

Lab No.: 8670

Date Sampled: 09/13/07

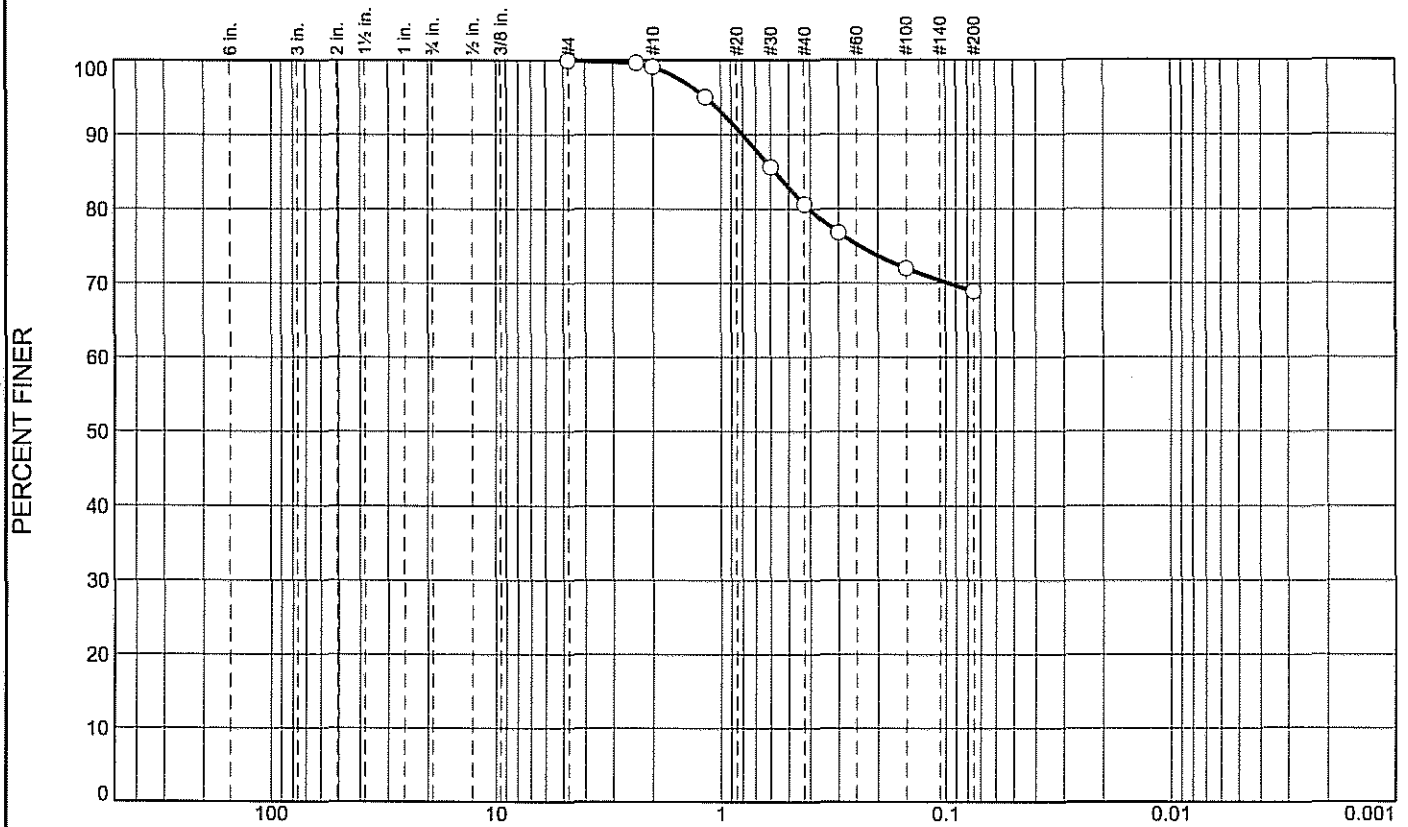
Tested By: AS

Date: 9/18/2007

Sample:	UE-5	UF-2	UF-6			
Depth:						
WET WT. + TARE	487.33	667.06	524.09			
DRY WT. + TARE	466.94	661.24	492.60			
TARE WT.	117.38	118.71	119.07			
DRY WT.	349.56	542.53	373.53			
WEIGHT LOST	20.39	5.82	31.49			
% MOISTURE	5.8	1.1	8.4			

Remarks/Condition: _____

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.9	18.5	11.7	68.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#8	99.6		
#10	99.1		
#16	95.1		
#30	85.7		
#40	80.6		
#50	76.8		
#100	72.0		
#200	68.9		

* (no specification provided)

Soil Description
Sandy silt

Atterberg Limits
PL= NP LL= NV PI= NP

Coefficients
D₈₅= 0.5750 D₆₀= D₅₀=
D₃₀= D₁₅= D₁₀=
C_u= C_c=

Classification
USCS= ML AASHTO= A-4(0)

Remarks
ENTERED BY:BLW

Sample No.: TP-1
Location: TP-1

Source of Sample: LAB#8670

Date: 9/26/07
Elev./Depth:



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Project: BRC EAST SIDE GEOTECH SAMPLING

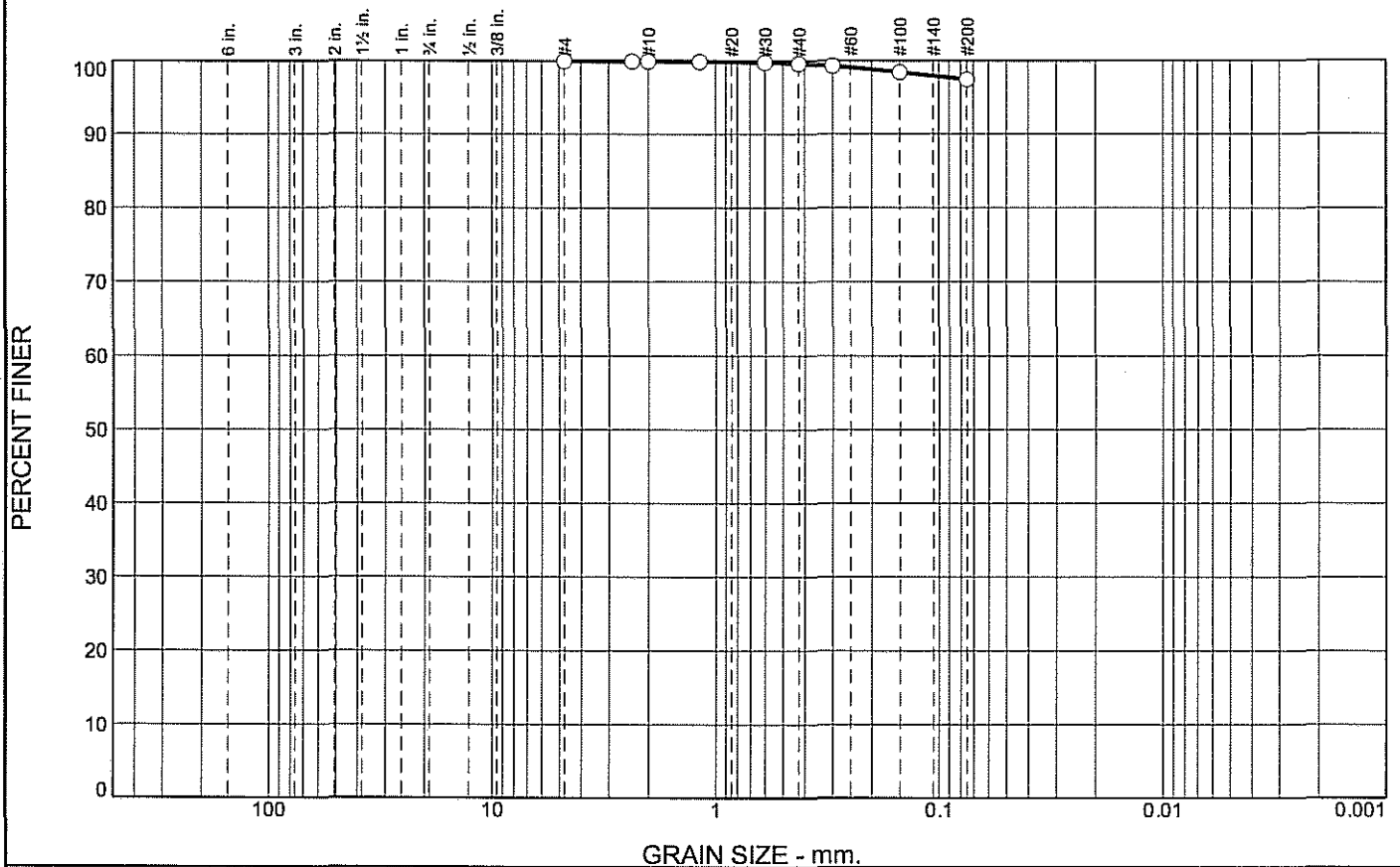
Project No: 20072247V1

Figure 8670

Tested By: JM

Checked By: BLW

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.4	2.2	97.4	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#8	100.0		
#10	100.0		
#16	99.9		
#30	99.8		
#40	99.6		
#50	99.3		
#100	98.4		
#200	97.4		

* (no specification provided)

Soil Description

Silt

PL= NP

Atterberg Limits

LL= NV

PI= NP

Coefficients

D₈₅=

D₆₀=

D₅₀=

D₃₀=

D₁₅=

D₁₀=

C_u=

C_c=

Classification

USCS= ML

AASHTO= A-4(0)

Remarks

SAMPLED:09/13/07

ENTERED BY:AS

Sample No.: TP-2

Location: TP-2

Source of Sample: LAB#8670

Date: 09/21/07

Elev./Depth:



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Project: BRC EAST SIDE GEOTECH SAMPLING

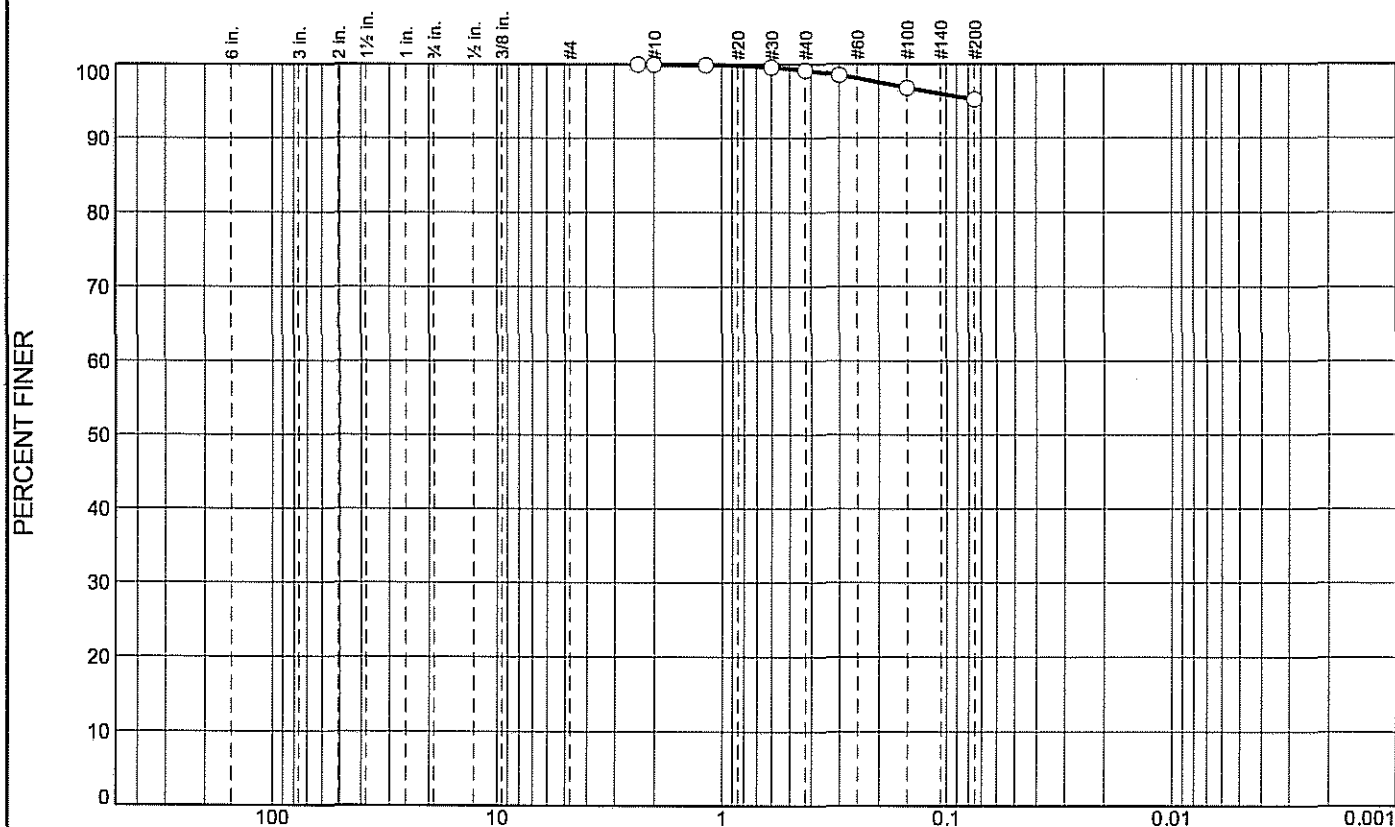
Project No: 20072247V1

Figure 8670

Tested By: DG

Checked By: AS

Particle Size Distribution Report



GRAIN SIZE - mm.

% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.8	4.0	95.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#8	100.0		
#10	100.0		
#16	99.9		
#30	99.6		
#40	99.2		
#50	98.5		
#100	96.8		
#200	95.2		

Soil Description

Silt

Atterberg Limits

PL= 22

LL= 25

PI= 3

Coefficients

D₈₅=

D₆₀=

D₅₀=

D₃₀=

D₁₅=

D₁₀=

C_u=

C_c=

Classification

USCS= ML

AASHTO= A-4(2)

Remarks

ENTERED BY:BLW

* (no specification provided)

Sample No.: TP-3

Source of Sample: LAB#8670

Date: 9/26/07

Location: TP-3

Elev./Depth:



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Project: BRC EAST SIDE GEOTECH SAMPLING

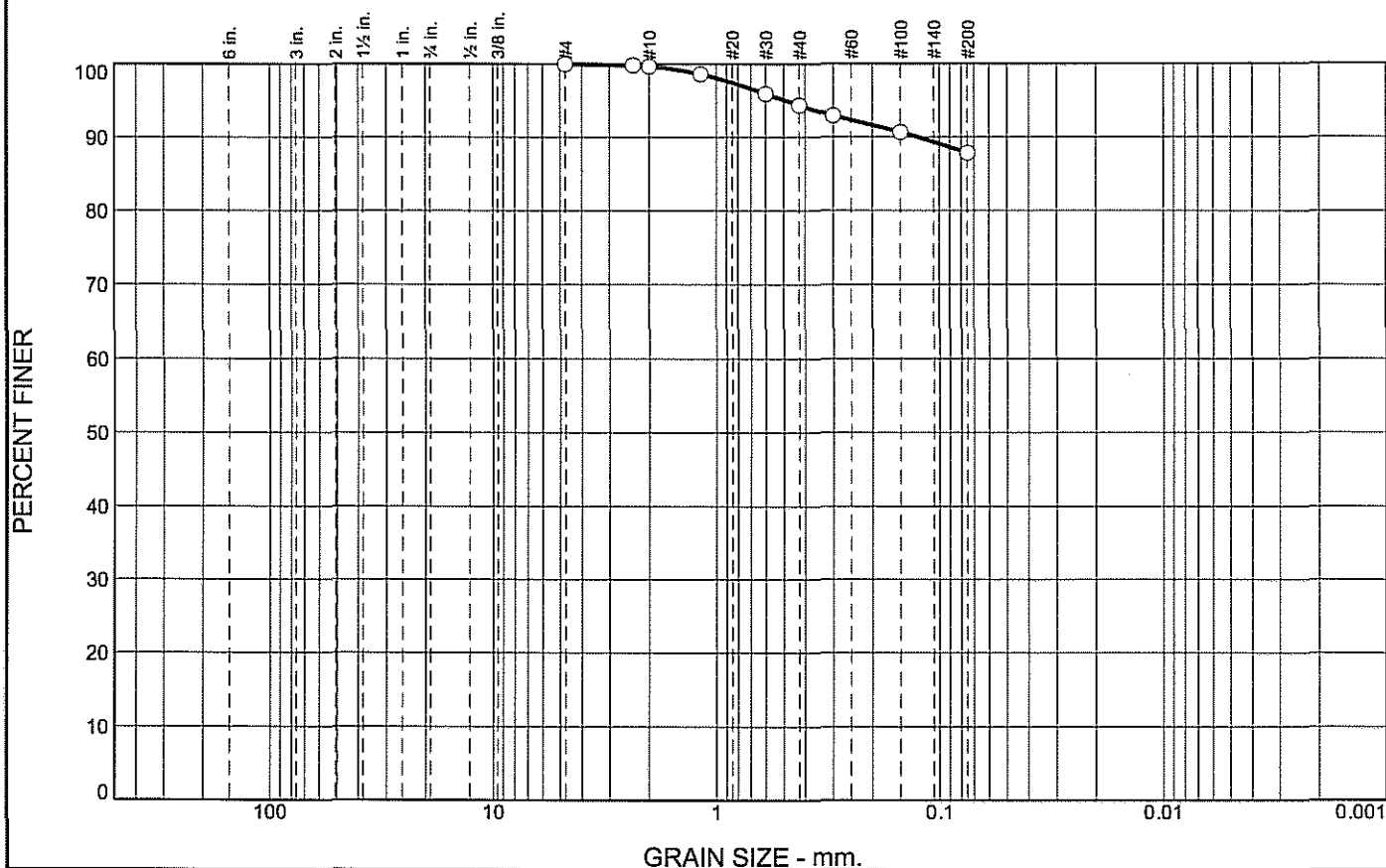
Project No: 20072247V1

Figure 8670

Tested By: DG

Checked By: BLW

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.3	5.3	6.6	87.8	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#8	99.8		
#10	99.7		
#16	98.6		
#30	96.0		
#40	94.4		
#50	93.0		
#100	90.7		
#200	87.8		

* (no specification provided)

Soil Description

Silt

PL= NP

Atterberg Limits

LL= NV

PI= NP

Coefficients

D₈₅=

D₆₀=

D₅₀=

D₃₀=

D₁₅=

D₁₀=

C_u=

C_c=

Classification

USCS= ML

AASHTO= A-4(0)

Remarks

ENTERED BY:BLW

Sample No.: TP-4

Location: TP-4

Source of Sample: LAB#8670

Date: 9/26/07

Elev./Depth:



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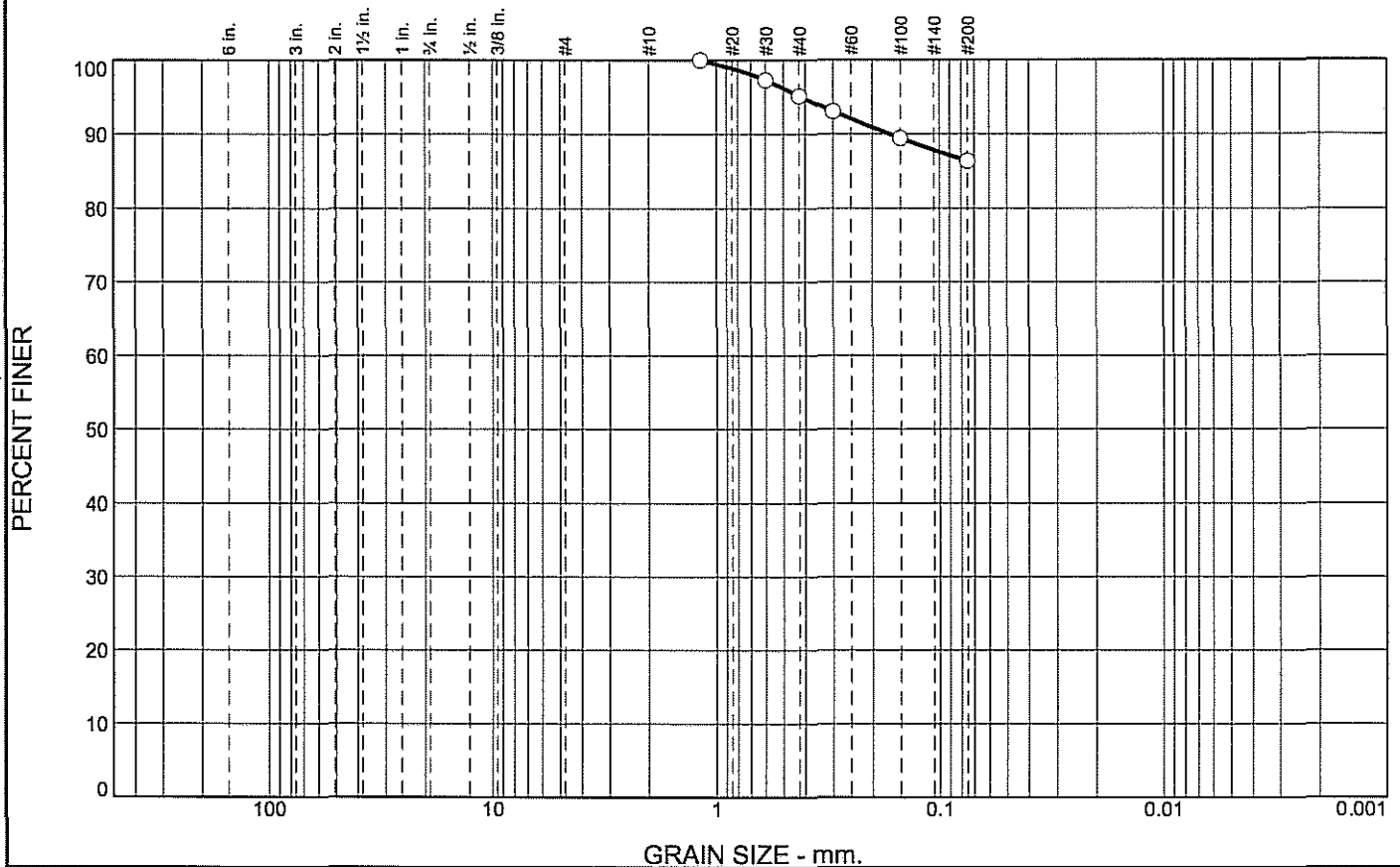
Project No: 20072247V1

Figure 8670

Tested By: JM

Checked By: BLW

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	4.8	8.9	86.3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#16	100.0		
#30	97.3		
#40	95.2		
#50	93.1		
#100	89.4		
#200	86.3		

Soil Description

Silt

Atterberg Limits

PL= NP

LL= NV

PI= NP

Coefficients

D₈₅=

D₆₀=

D₅₀=

D₃₀=

D₁₅=

D₁₀=

C_u=

C_c=

Classification

USCS= ML

AASHTO= A-4(0)

Remarks

ENTERED BY:BLW

* (no specification provided)

Sample No.: TP-5

Source of Sample: LAB#8670

Date: 9/26/07

Location: TP-5

Elev./Depth:



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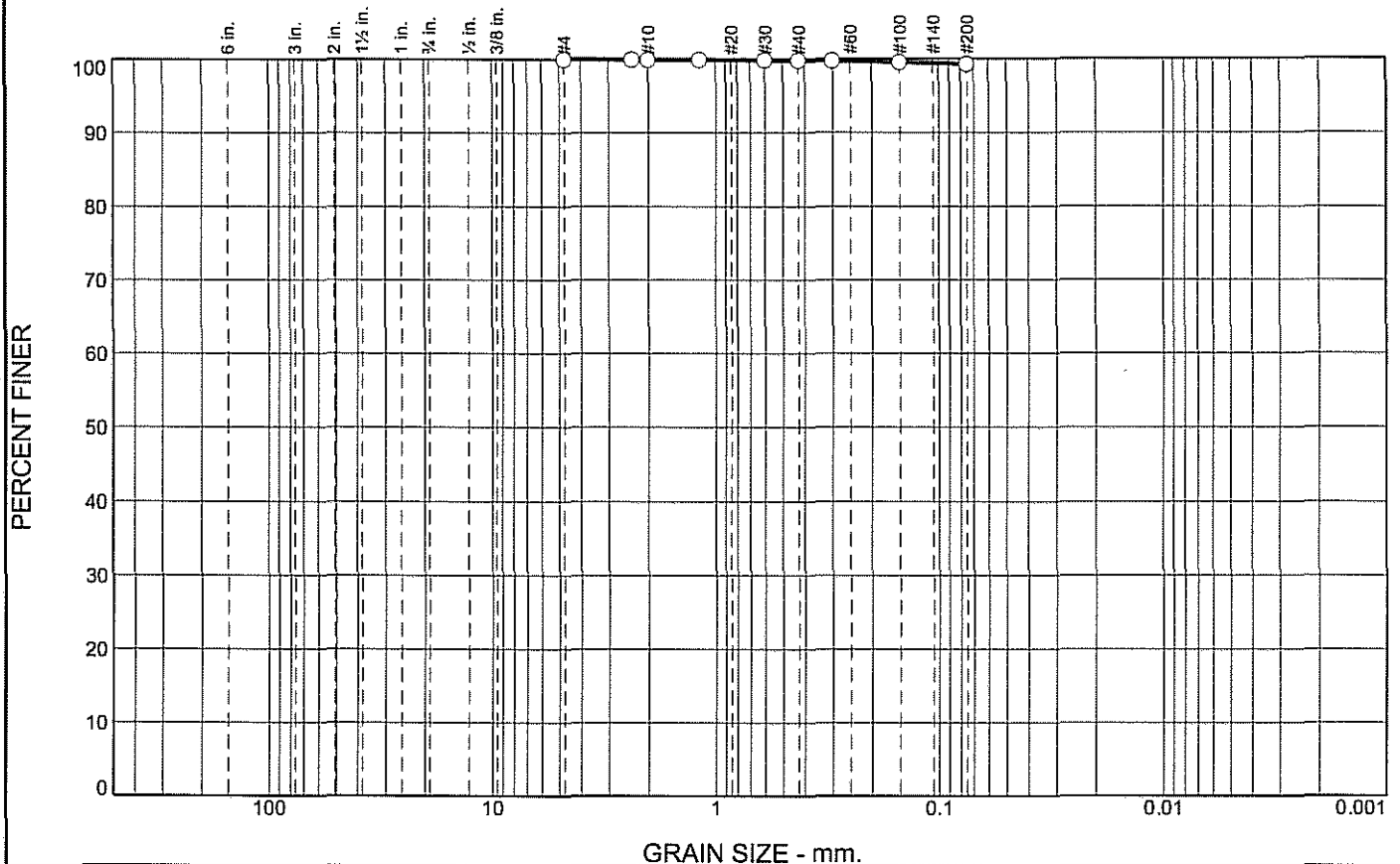
Project No: 20072247V1

Figure 8670

Tested By: JM

Checked By: BLW

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.1	0.1	0.5	99.3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#8	99.9		
#10	99.9		
#16	99.9		
#30	99.9		
#40	99.8		
#50	99.7		
#100	99.6		
#200	99.3		

* (no specification provided)

Soil Description

Silt

Atterberg Limits

PL= NP

LL= NV

PI= NP

Coefficients

D₈₅=

D₆₀=

D₅₀=

D₃₀=

D₁₅=

D₁₀=

C_u=

C_c=

Classification

USCS= ML

AASHTO= A-4(0)

Remarks

ENTERED BY:BLW

Sample No.: TP=6

Source of Sample: LAB#8670

Date: 9/26/07

Location: TP-6

Elev./Depth:



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Client: BRC

Project: BRC EAST SIDE GEOTECH SAMPLING

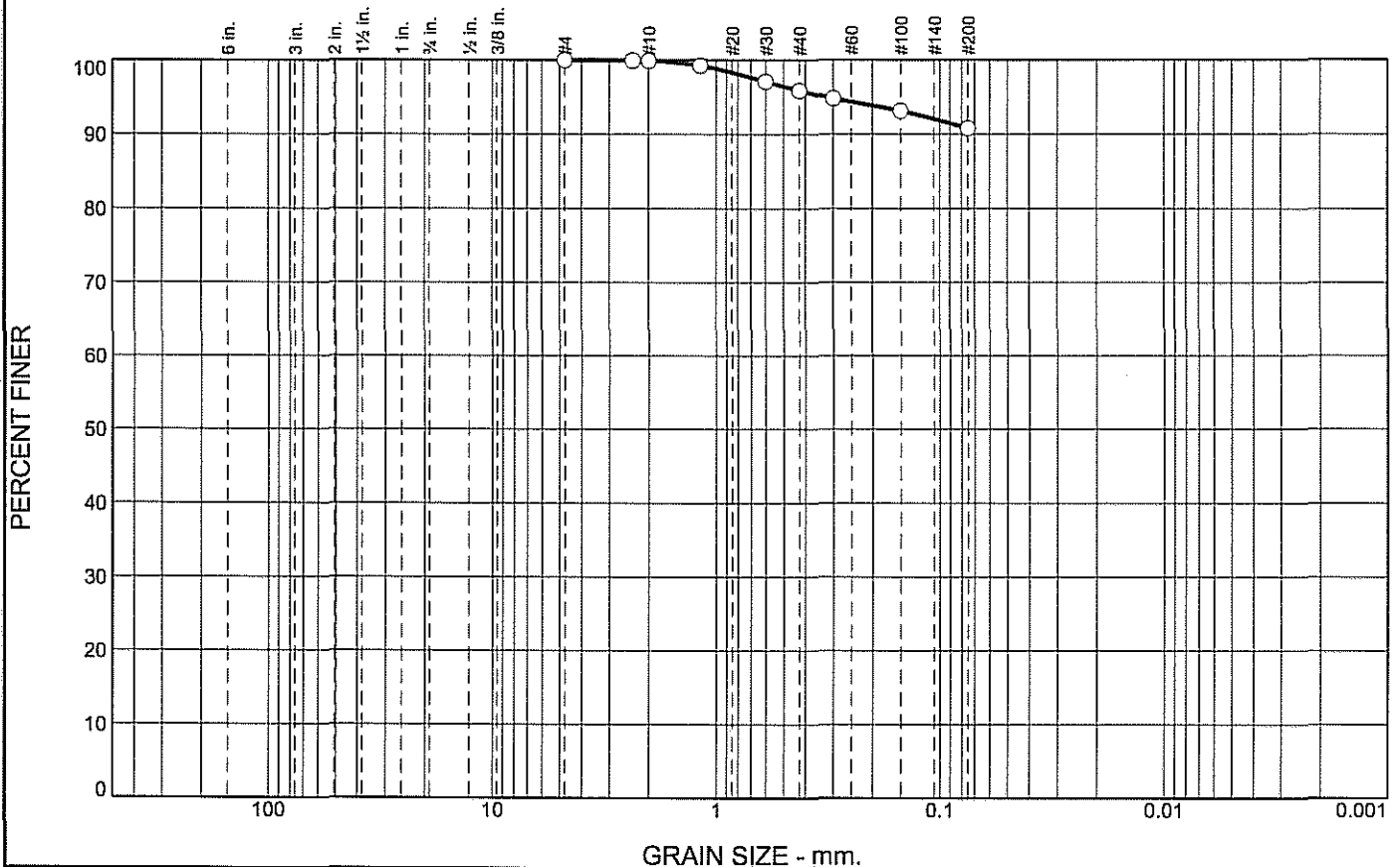
Project No: 20072247V1

Figure 8670

Tested By: JM

Checked By: BLW

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.1	4.0	5.1	90.8	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#8	100.0		
#10	99.9		
#16	99.3		
#30	97.1		
#40	95.9		
#50	94.8		
#100	93.2		
#200	90.8		

* (no specification provided)

Soil Description

Silt

PL= NP **Atterberg Limits** LL= NV PI= NP

Coefficients

D₈₅= D₆₀= D₅₀=
D₃₀= D₁₅= D₁₀=
C_u= C_c=

Classification

USCS= ML AASHTO= A-4(0)

Remarks

ENTERED BY: BLW

Sample No.: TP-7
Location: TP-7

Source of Sample: LAB#8670

Date: 9/26/07
Elev./Depth:



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Client: BRC
Project: BRC EAST SIDE GEOTECH SAMPLING

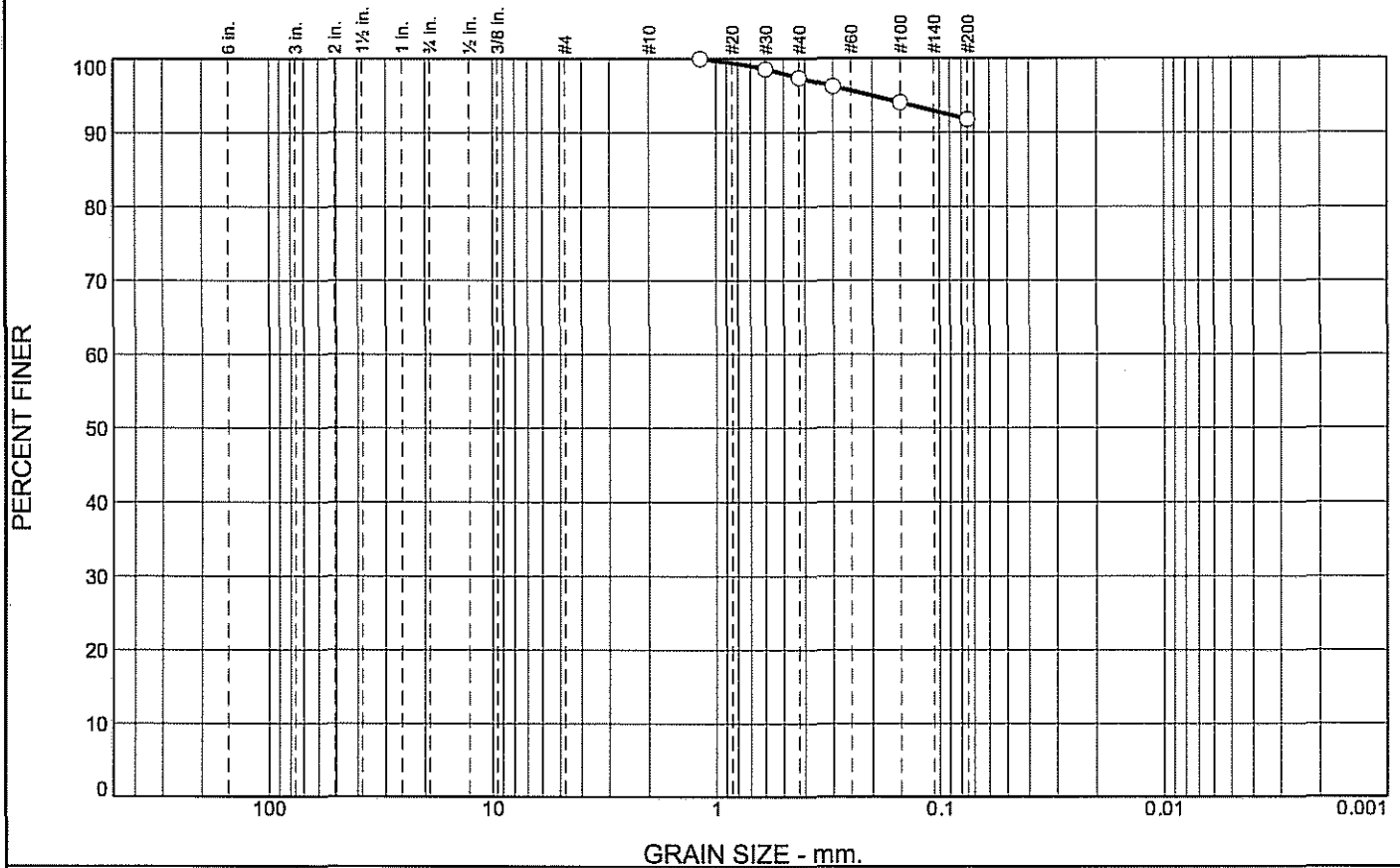
Project No: 20072247V1

Figure 8670

Tested By: JM

Checked By: BLW

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	2.6	5.6	91.8	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#16	100.0		
#30	98.6		
#40	97.4		
#50	96.2		
#100	94.1		
#200	91.8		

* (no specification provided)

Soil Description

Silt

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₈₅= D₆₀= D₅₀=
D₃₀= D₁₅= D₁₀=
C_u= C_c=

Classification

USCS= ML AASHTO= A-4(0)

Remarks

ENTERED BY: BLW

Sample No.: TP-8
Location: TP-8

Source of Sample: LAB#8670

Date: 9/26/07
Elev./Depth:



GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

Client: BRC
Project: BRC EAST SIDE GEOTECH SAMPLING

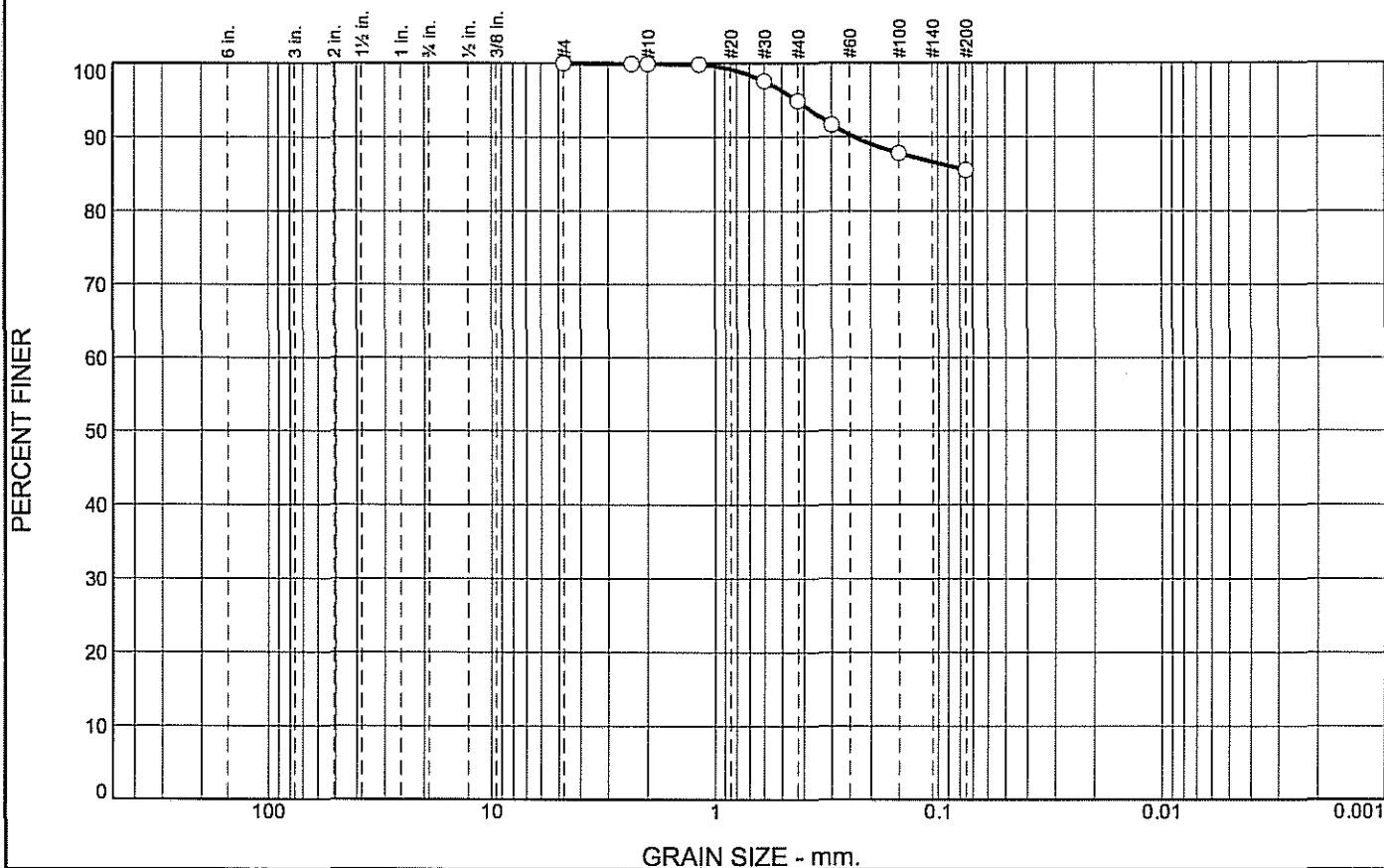
Project No: 20072247V1

Figure 8670

Tested By: JM

Checked By: BLW

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.1	5.0	9.4	85.5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#8	99.9		
#10	99.9		
#16	99.9		
#30	97.6		
#40	94.9		
#50	91.6		
#100	87.8		
#200	85.5		

* (no specification provided)

Soil Description
Silt

Atterberg Limits
PL= NP LL= NV PI= NP

Coefficients
D₈₅= D₆₀= D₅₀=
D₃₀= D₁₅= D₁₀=
C_u= C_c=

Classification
USCS= ML AASHTO= A-4(0)

Remarks
ENTERED BY:BLW

Sample No.: TP-9
Location: TP-9

Source of Sample: LAB#8670

Date: 9/26/07
Elev./Depth:



**GEOTECHNICAL &
ENVIRONMENTAL
SERVICES, INC.**

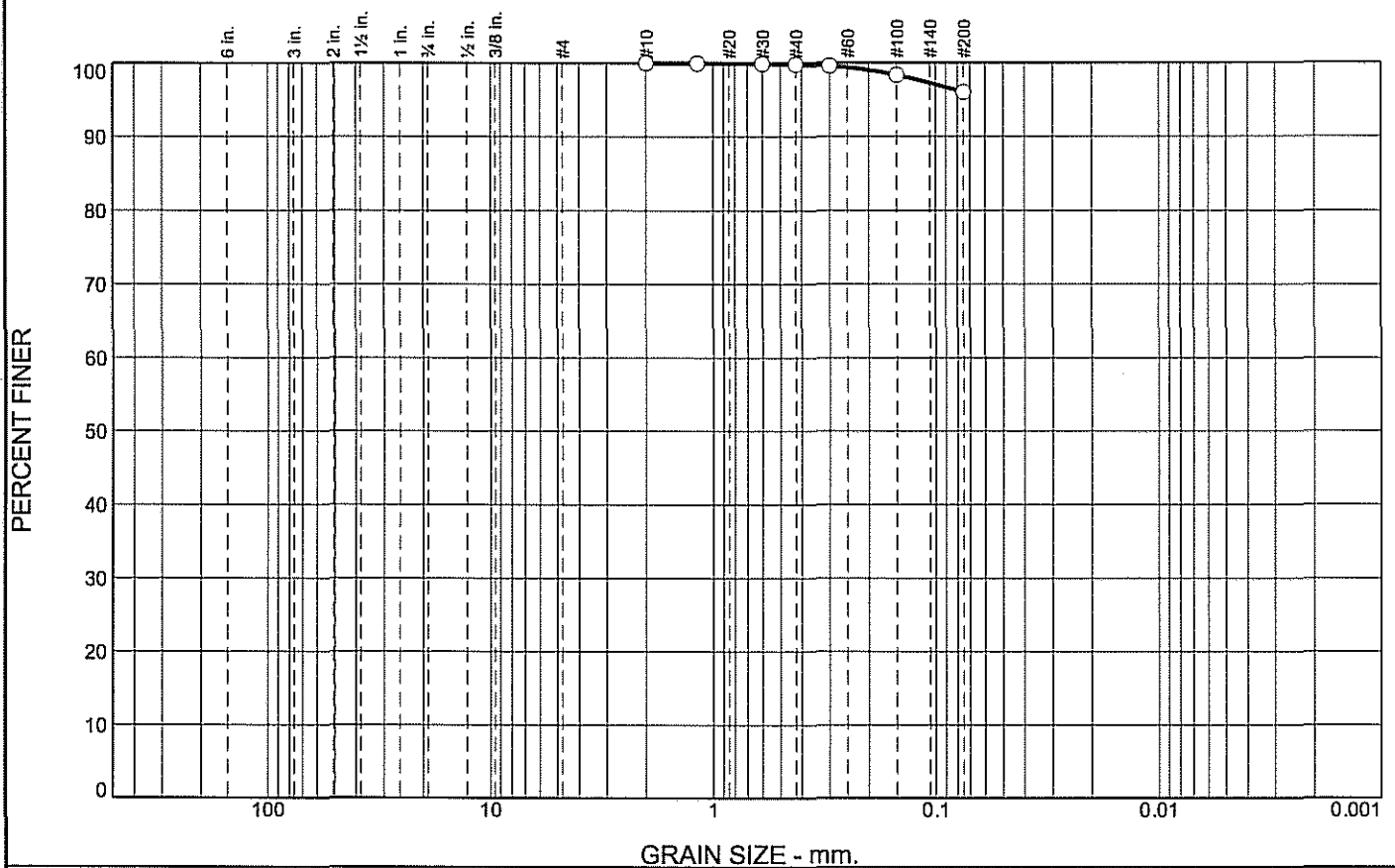
Client: BRC
Project: BRC EAST SIDE GEOTECH SAMPLING

Project No: 20072247V1

Figure 8670

Tested By: JM Checked By: BLW

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.2	3.8	96.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#16	100.0		
#30	99.9		
#40	99.8		
#50	99.6		
#100	98.3		
#200	96.0		

Soil Description

Silt

Atterberg Limits

PL= NP

LL= NV

PI= NP

Coefficients

D₈₅=

D₆₀=

D₅₀=

D₃₀=

D₁₅=

D₁₀=

C_u=

C_c=

Classification

USCS= ML

AASHTO= A-4(0)

Remarks

ENTERED BY:BLW

* (no specification provided)

Sample No.: TP-10

Source of Sample: LAB#8670

Date: 9/26/07

Location: TP-10

Elev./Depth:



**GEOTECHNICAL &
ENVIRONMENTAL
SERVICES, INC.**

Client: BRC

Project: BRC EAST SIDE GEOTECH SAMPLING

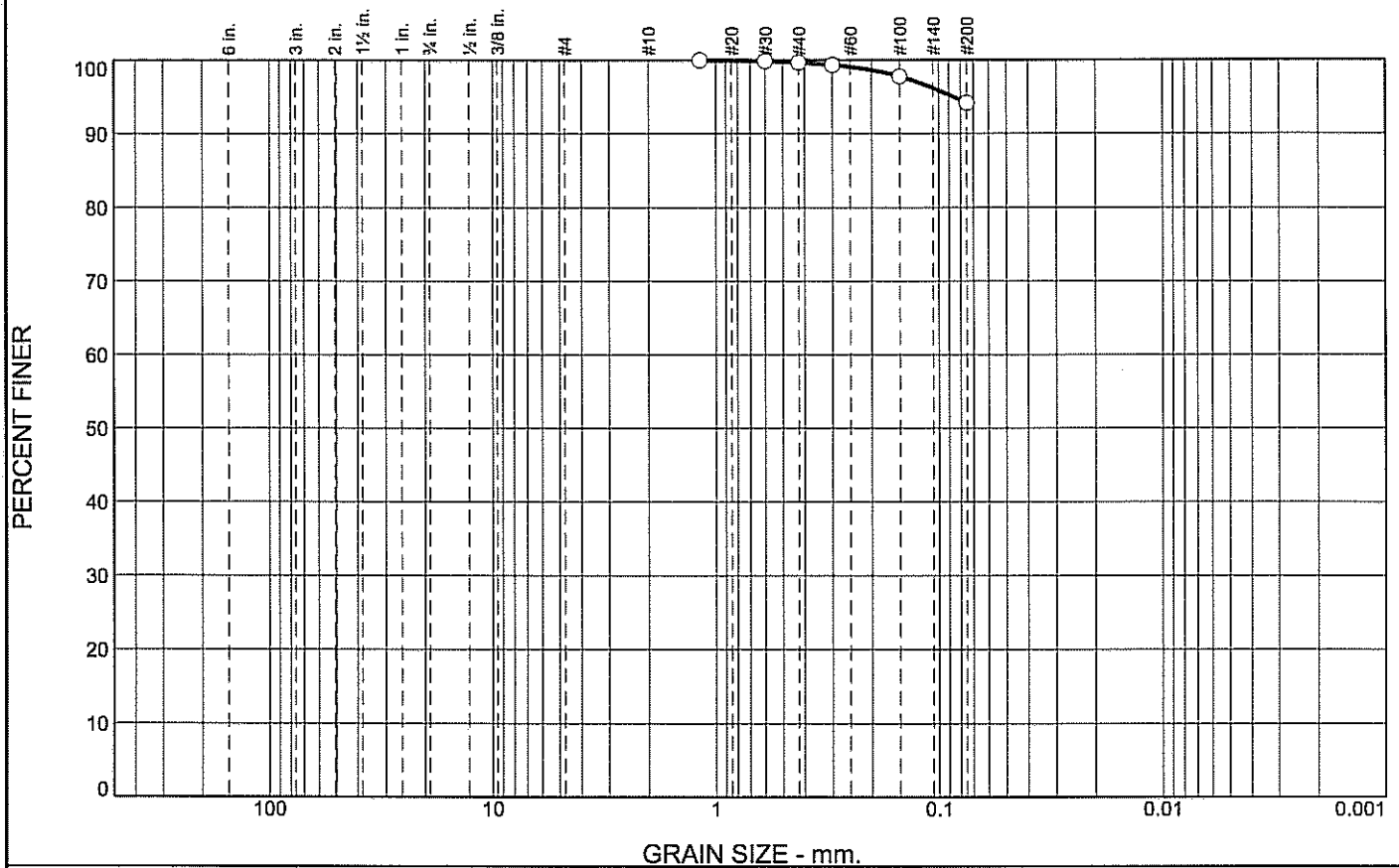
Project No: 20072247V1

Figure 8670

Tested By: DG

Checked By: BLW

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.3	5.5	94.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#16	100.0		
#30	99.9		
#40	99.7		
#50	99.3		
#100	97.8		
#200	94.2		

Soil Description
Silt

Atterberg Limits
PL= NP LL= NV PI= NP

Coefficients
D₈₅= D₆₀= D₅₀=
D₃₀= D₁₅= D₁₀=
C_u= C_c=

Classification
USCS= ML AASHTO= A-4(0)

Remarks
ENTERED BY:BLW

* (no specification provided)

Sample No.: TP-11
Location: TP-11

Source of Sample: LAB#8670

Date: 9/26/07
Elev./Depth:



GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

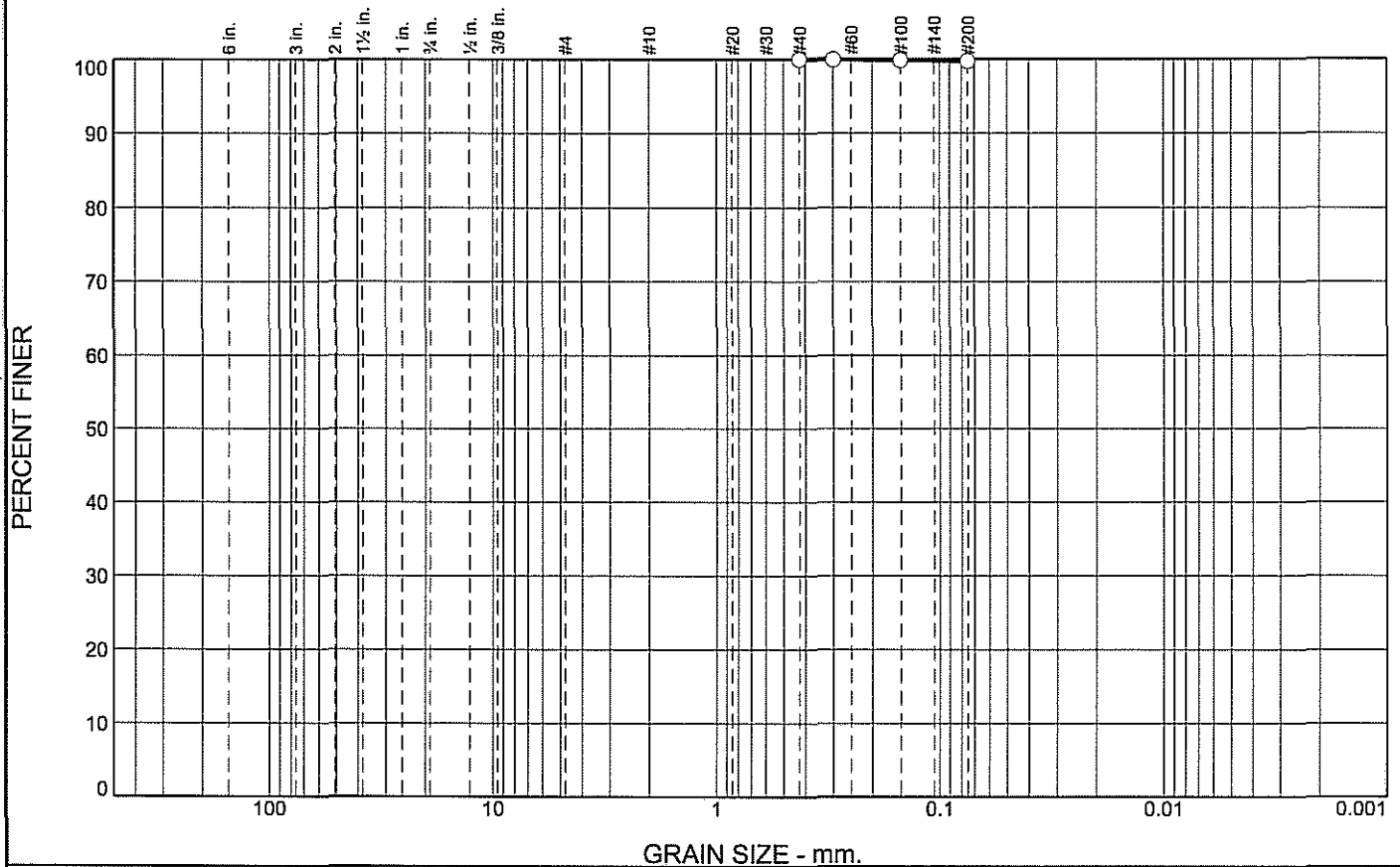
Client: BRC
Project: BRC EAST SIDE GEOTECH SAMPLING

Project No: 20072247V1

Figure 8670

Tested By: DG Checked By: BLW

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.0	0.3	99.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#40	100.0		
#50	100.0		
#100	99.9		
#200	99.7		

* (no specification provided)

Soil Description

Silt

PL= NP

Atterberg Limits

LL= NV

PI= NP

Coefficients

D₈₅=

D₆₀=

D₅₀=

D₃₀=

D₁₅=

D₁₀=

C_u=

C_c=

Classification

USCS= ML

AASHTO= A-4(0)

Remarks

ENTERED BY:

Sample No.: TP-12

Source of Sample: LAB#8670

Date: 9/26/07

Location: TP-12

Elev./Depth:



**GEOTECHNICAL &
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SERVICES, INC.**

Client: BRC

Project: BRC EAST SIDE GEOTECH SAMPLING

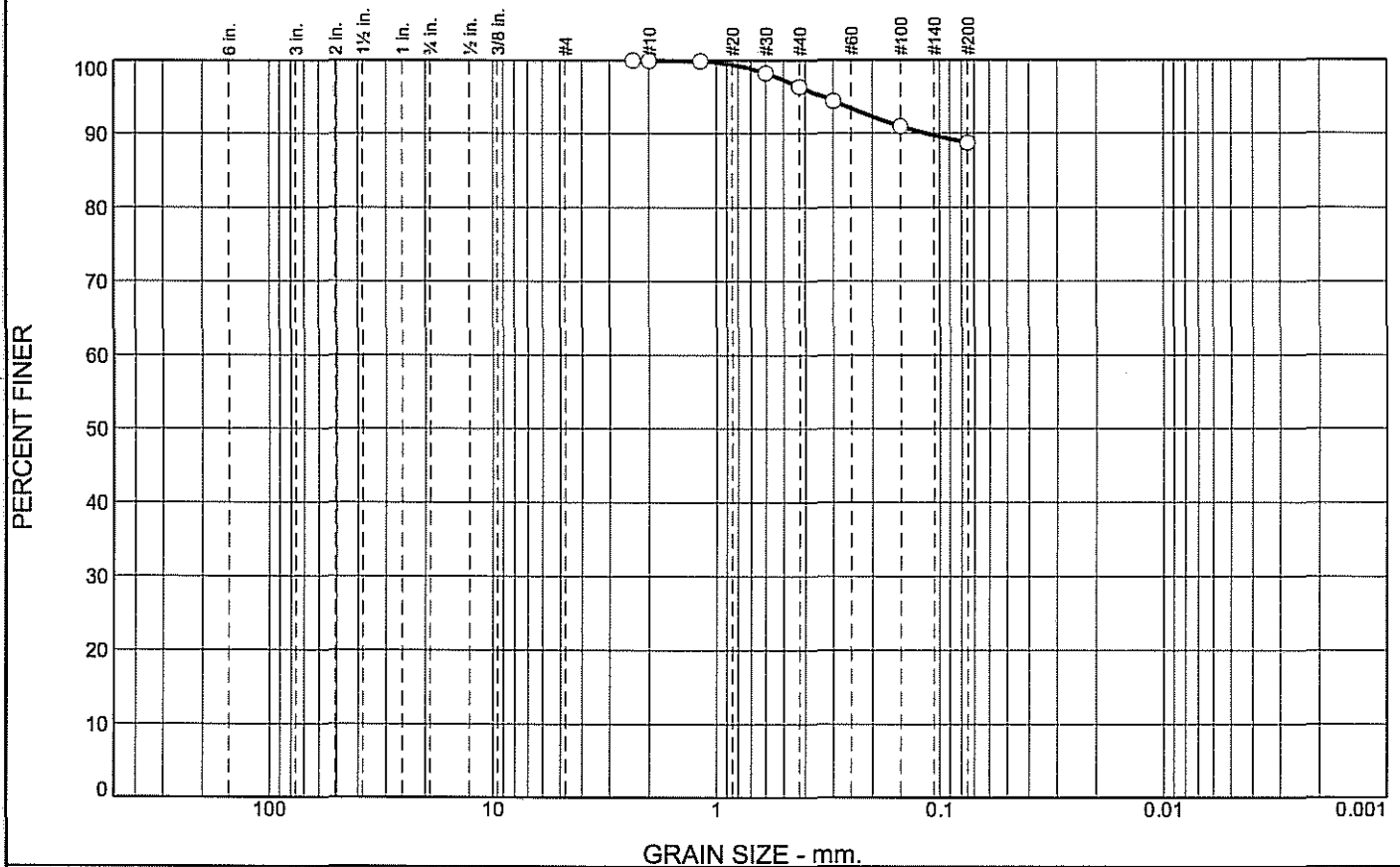
Project No: 20072247V1

Figure 8670

Tested By: DG

Checked By: BLW

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	3.6	7.7	88.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#8	100.0		
#10	100.0		
#16	99.9		
#30	98.3		
#40	96.4		
#50	94.4		
#100	90.9		
#200	88.7		

* (no specification provided)

Soil Description
Silt

Atterberg Limits
PL= NP LL= NV PI= NP

Coefficients
D₈₅= D₆₀= D₅₀=
D₃₀= D₁₅= D₁₀=
C_u= C_c=

Classification
USCS= ML AASHTO= A-4(0)

Remarks
ENTERED BY:BLW

Sample No.: TP-13
Location: TP-13

Source of Sample: LAB#8670

Date: 9/26/07
Elev./Depth:



**GEOTECHNICAL &
ENVIRONMENTAL
SERVICES, INC.**

Client: BRC
Project: BRC EAST SIDE GEOTECH SAMPLING

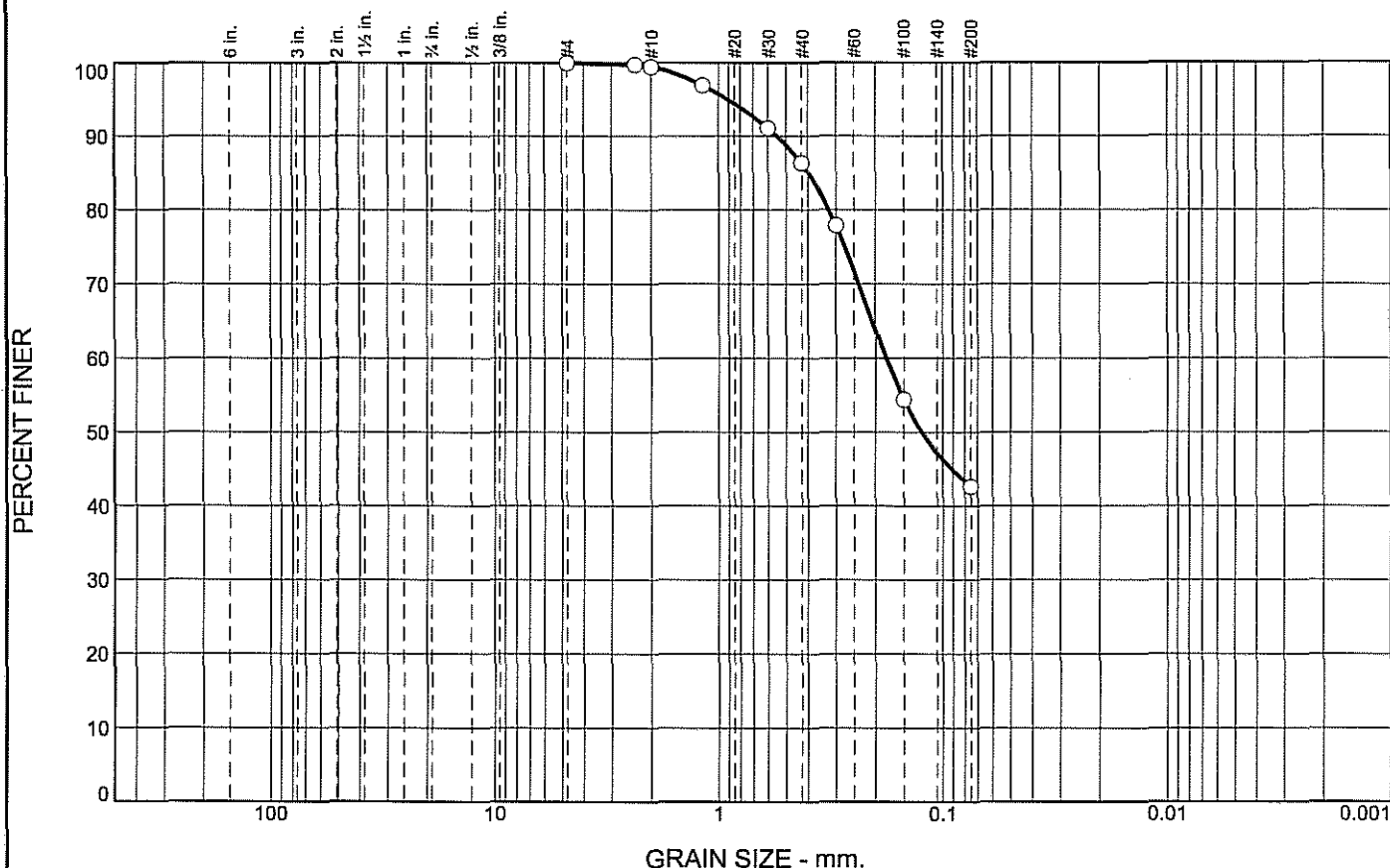
Project No: 20072247V1

Figure 8670

Tested By: DG

Checked By: BLW

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.5	13.2	43.7	42.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#8	99.8		
#10	99.5		
#16	97.0		
#30	91.1		
#40	86.3		
#50	77.9		
#100	54.4		
#200	42.6		

* (no specification provided)

Soil Description
Silty sand

Atterberg Limits
PL= NP LL= NV PI= NP

Coefficients
D₈₅= 0.3966 D₆₀= 0.1795 D₅₀= 0.1245
D₃₀= D₁₅= D₁₀=
C_u= C_c=

Classification
USCS= SM AASHTO= A-4(0)

Remarks
SAMPLED:09/13/07
ENTERED BY:AS

Sample No.: TP-14
Location: TP-14

Source of Sample: LAB#8670

Date: 09/21/07
Elev./Depth:



**GEOTECHNICAL &
ENVIRONMENTAL
SERVICES, INC.**

Client: BRC
Project: BRC EAST SIDE GEOTECH SAMPLING

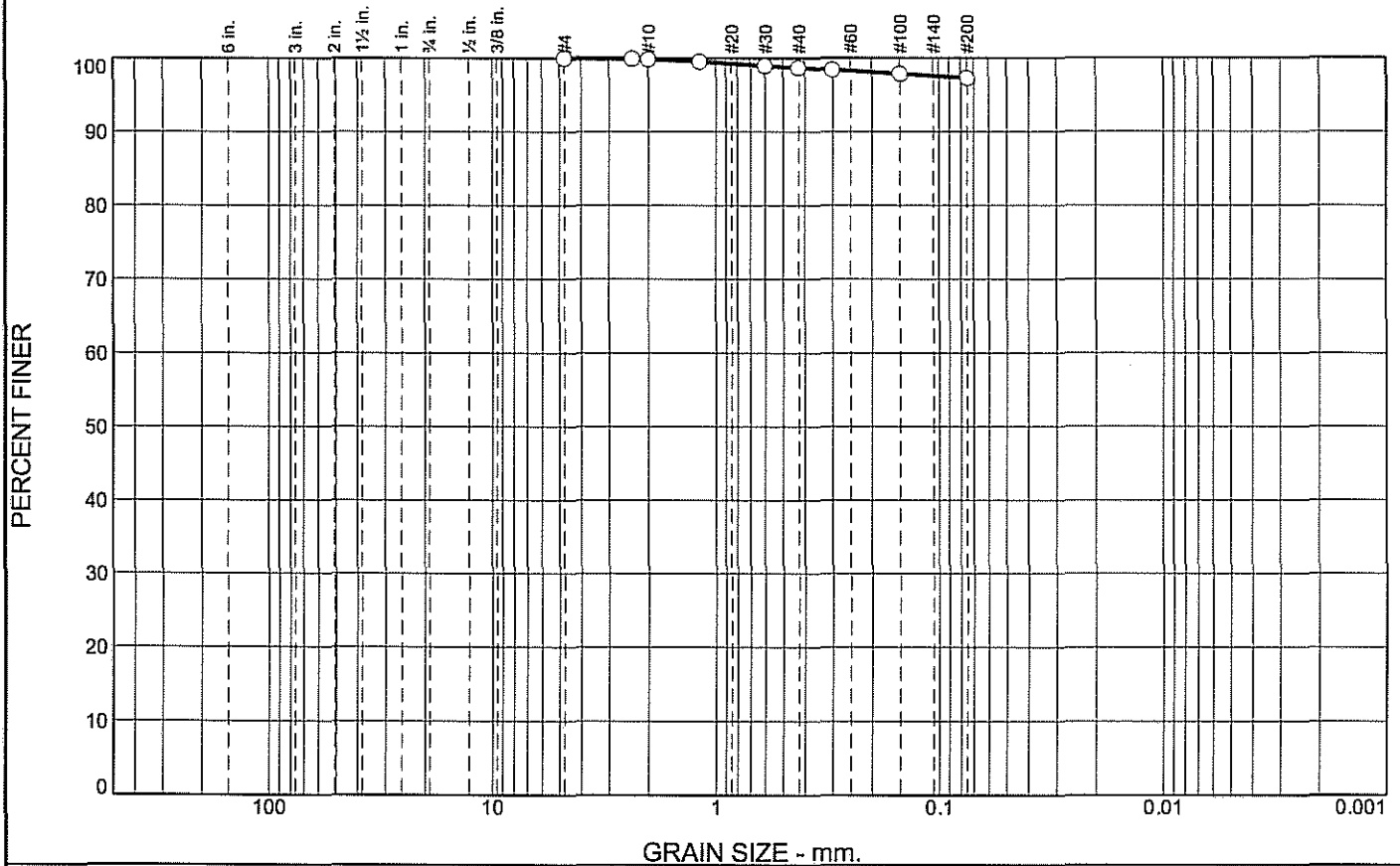
Project No: 20072247V1

Figure 8670

Tested By: AS

Checked By: AS

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.1	1.2	1.4	97.3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#8	99.9		
#10	99.9		
#16	99.6		
#30	99.0		
#40	98.7		
#50	98.4		
#100	97.9		
#200	97.3		

* (no specification provided)

Soil Description		
Silt		
Atterberg Limits		
PL= NP	LL= NV	PI= NP
Coefficients		
D ₈₅ =	D ₆₀ =	D ₅₀ =
D ₃₀ =	D ₁₅ =	D ₁₀ =
C _u =	C _c =	
Classification		
USCS= ML	AASHTO= A-4(0)	
Remarks		
ENTERED BY:BLW		

Sample No.: TP-15
Location: TP-15

Source of Sample: LAB#8670

Date: 9/26/07
Elev./Depth:



**GEOTECHNICAL &
ENVIRONMENTAL
SERVICES, INC.**

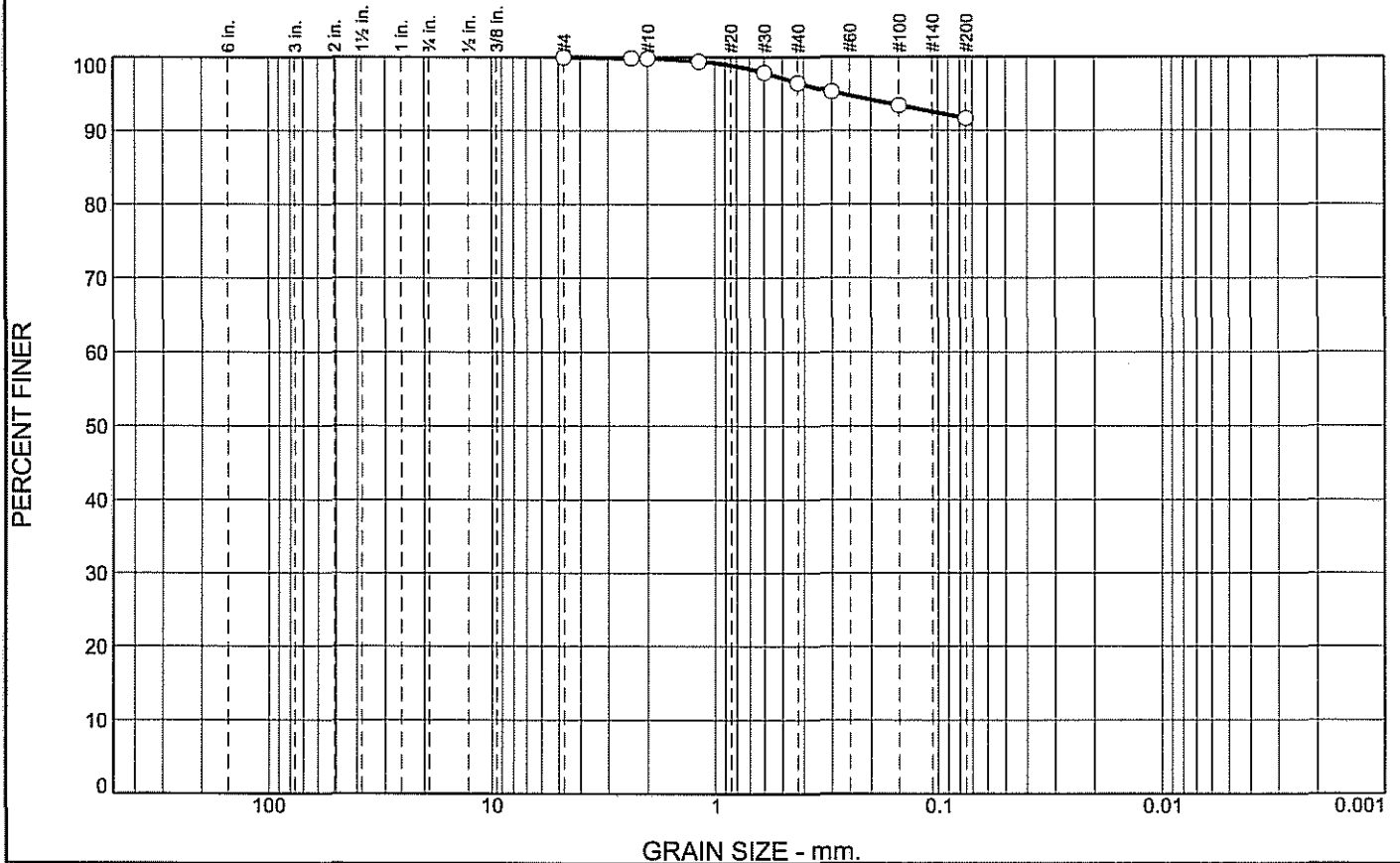
Client: BRC
Project: BRC EAST SIDE GEOTECH SAMPLING

Project No: 20072247V1

Figure 8670

Tested By: DG Checked By: BLW

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.1	3.4	4.8	91.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#8	99.9		
#10	99.9		
#16	99.5		
#30	97.9		
#40	96.5		
#50	95.3		
#100	93.5		
#200	91.7		

* (no specification provided)

Soil Description

Silt

PL= NP **Atterberg Limits** LL= NV PI= NP

Coefficients

D₈₅= D₆₀= D₅₀=
D₃₀= D₁₅= D₁₀=
C_u= C_c=

Classification

USCS= ML AASHTO= A-4(0)

Remarks

ENTERED BY:BLW

Sample No.: TP-16
Location: TP-16

Source of Sample: LAB#8670

Date: 9/26/07
Elev./Depth:



GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

Client: BRC
Project: BRC EAST SIDE GEOTECH SAMPLING

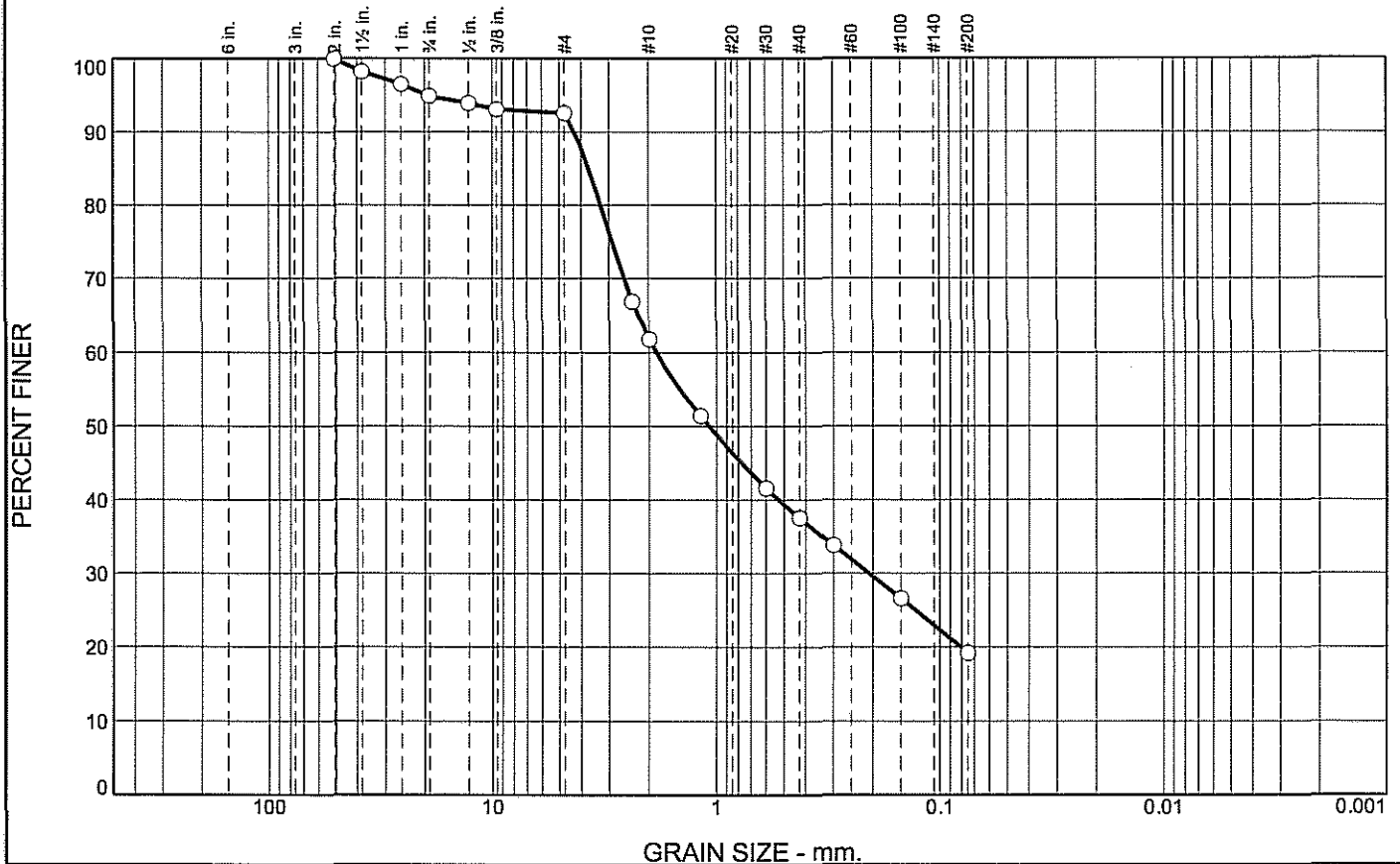
Project No: 20072247V1

Figure 8670

Tested By: DG

Checked By: BLW

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	5.1	2.3	30.8	24.2	18.4	19.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2	100.0		
1.5	98.2		
1	96.5		
.75	94.9		
.5	93.9		
.375	93.1		
#4	92.6		
#8	66.8		
#10	61.8		
#16	51.4		
#30	41.6		
#40	37.6		
#50	33.8		
#100	26.6		
#200	19.2		

Soil Description

Silty sand

Atterberg Limits

PL= NP

LL= NV

PI= NP

Coefficients

D₈₅= 3.6968

D₆₀= 1.8594

D₅₀= 1.0785

D₃₀= 0.2084

D₁₅=

D₁₀=

C_u=

C_c=

Classification

USCS= SM

AASHTO= A-1-b

Remarks

ENTERED BY:BLW

* (no specification provided)

Sample No.: UA-7

Source of Sample: LAB#8670

Date: 9/26/07

Location: UA-7

Elev./Depth:



**GEOTECHNICAL &
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SERVICES, INC.**

Client: BRC

Project: BRC EAST SIDE GEOTECH SAMPLING

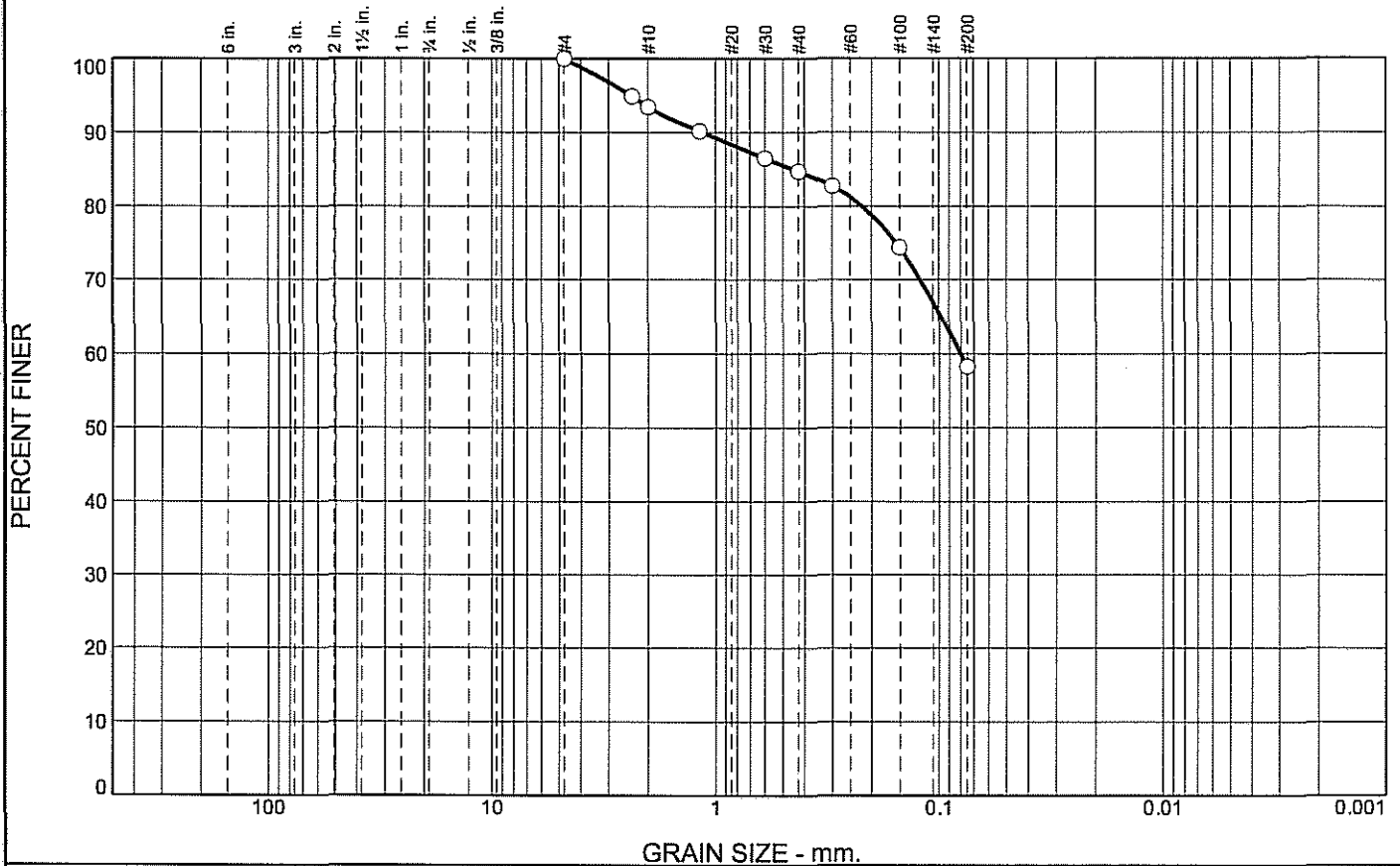
Project No: 20072247V1

Figure 8670

Tested By: DG

Checked By: BLW

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	6.5	8.8	26.4	58.3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#8	94.9		
#10	93.5		
#16	90.2		
#30	86.5		
#40	84.7		
#50	82.8		
#100	74.4		
#200	58.3		

Soil Description

Sandy silt

Atterberg Limits

PL= NP

LL= NV

PI= NP

Coefficients

D₈₅= 0.4497

D₆₀= 0.0802

D₅₀=

D₃₀=

D₁₅=

D₁₀=

C_u=

C_c=

Classification

USCS= ML

AASHTO= A-4(0)

Remarks

SAMPLED:09/13/07

ENTERED BY:AS

* (no specification provided)

Sample No.: UA-9

Location: UA-9

Source of Sample: LAB#8670

Date: 09/21/07

Elev./Depth:



**GEOTECHNICAL &
ENVIRONMENTAL
SERVICES, INC.**

Client: BRC

Project: BRC EAST SIDE GEOTECH SAMPLING

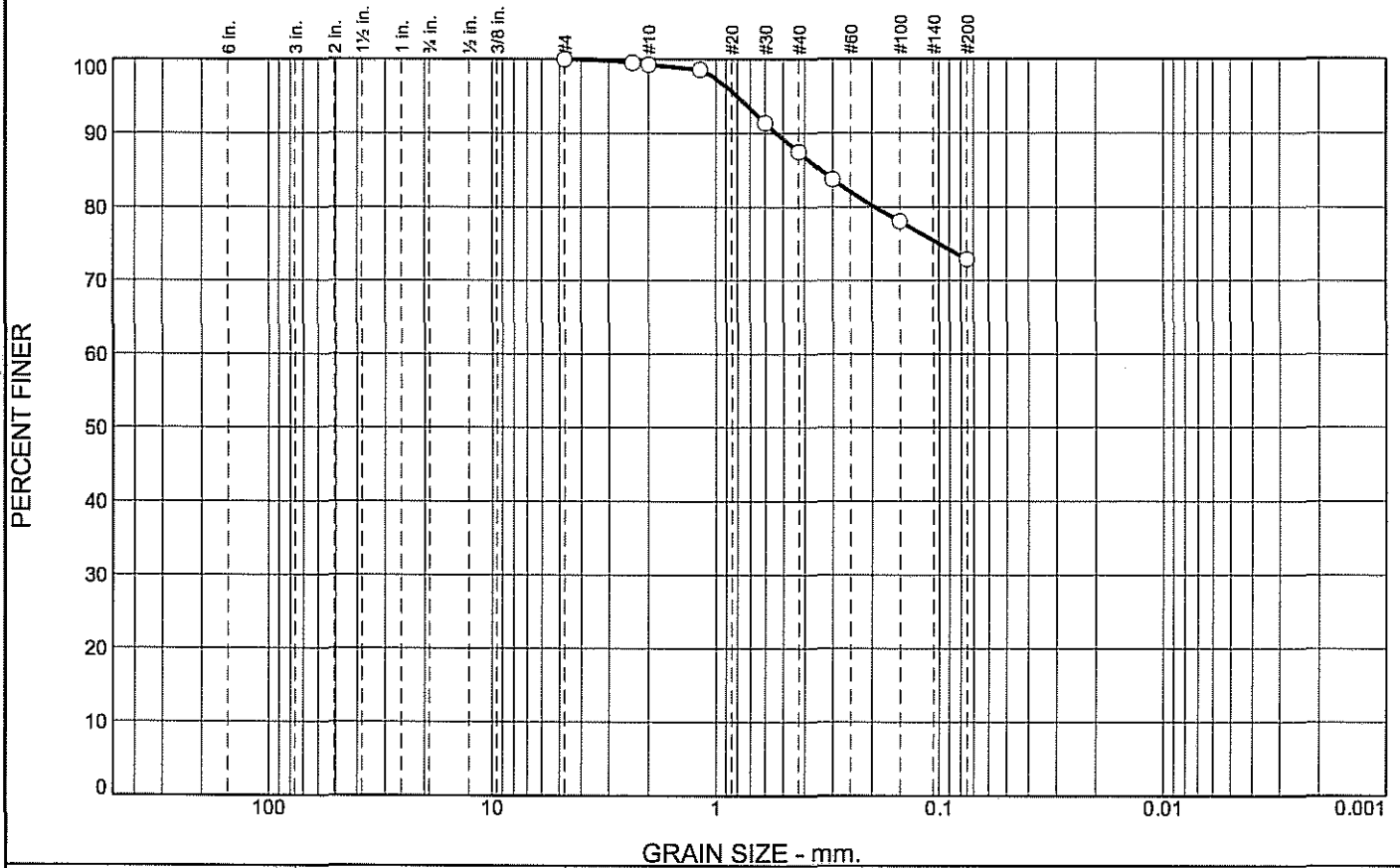
Project No: 20072247V1

Figure 8670

Tested By: JM

Checked By: AS

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.7	11.8	14.6	72.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#8	99.5		
#10	99.3		
#16	98.6		
#30	91.4		
#40	87.5		
#50	83.8		
#100	78.1		
#200	72.9		

* (no specification provided)

Soil Description

Silt with sand

Atterberg Limits

PL= NP

LL= NV

PI= NP

Coefficients

D₈₅= 0.3386

D₆₀=

D₅₀=

D₃₀=

D₁₅=

D₁₀=

C_u=

C_c=

Classification

USCS= ML

AASHTO= A-4(0)

Remarks

ENTERED BY:BLW

Sample No.: UB-9

Location: UB-9

Source of Sample: LAB#8670

Date: 9/26/07

Elev./Depth:



**GEOTECHNICAL &
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SERVICES, INC.**

Client: BRC

Project: BRC EAST SIDE GEOTECH SAMPLING

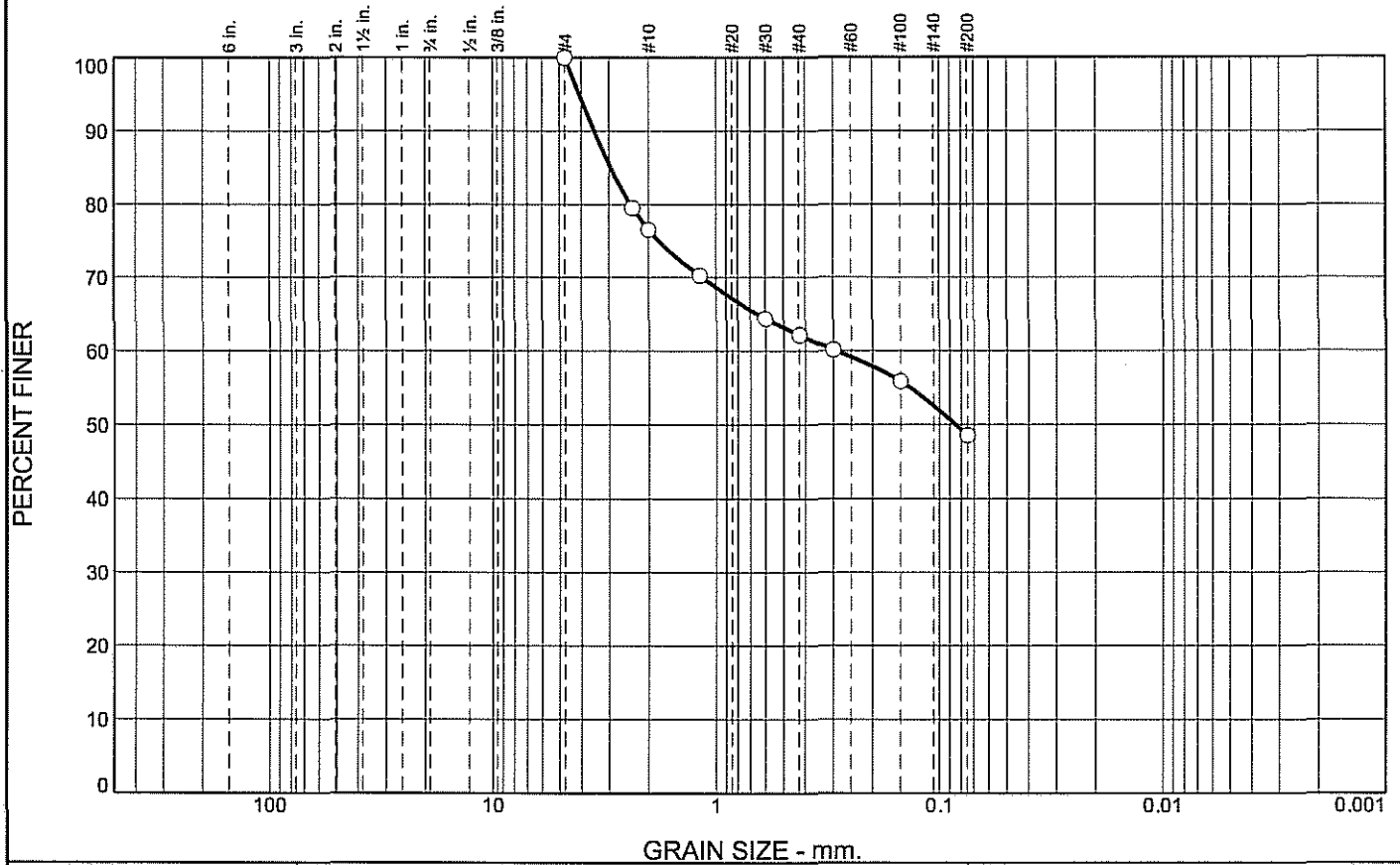
Project No: 20072247V1

Figure 8670

Tested By: JM

Checked By: BLW

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	23.5	14.4	13.5	48.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#8	79.5		
#10	76.5		
#16	70.3		
#30	64.4		
#40	62.1		
#50	60.1		
#100	55.9		
#200	48.6		

Soil Description

Silty sand

Atterberg Limits

PL= NP

LL= NV

PI= NP

Coefficients

D₈₅= 2.9533

D₆₀= 0.2922

D₅₀= 0.0848

D₃₀=

D₁₅=

D₁₀=

C_u=

C_c=

Classification

USCS= SM

AASHTO= A-4(0)

Remarks

ENTERED BY:BLW

* (no specification provided)

Sample No.: UC-6

Source of Sample: LAB#8670

Date: 9/26/07

Location: UC-6

Elev./Depth:



**GEOTECHNICAL &
ENVIRONMENTAL
SERVICES, INC.**

Client: BRC

Project: BRC EAST SIDE GEOTECH SAMPLING

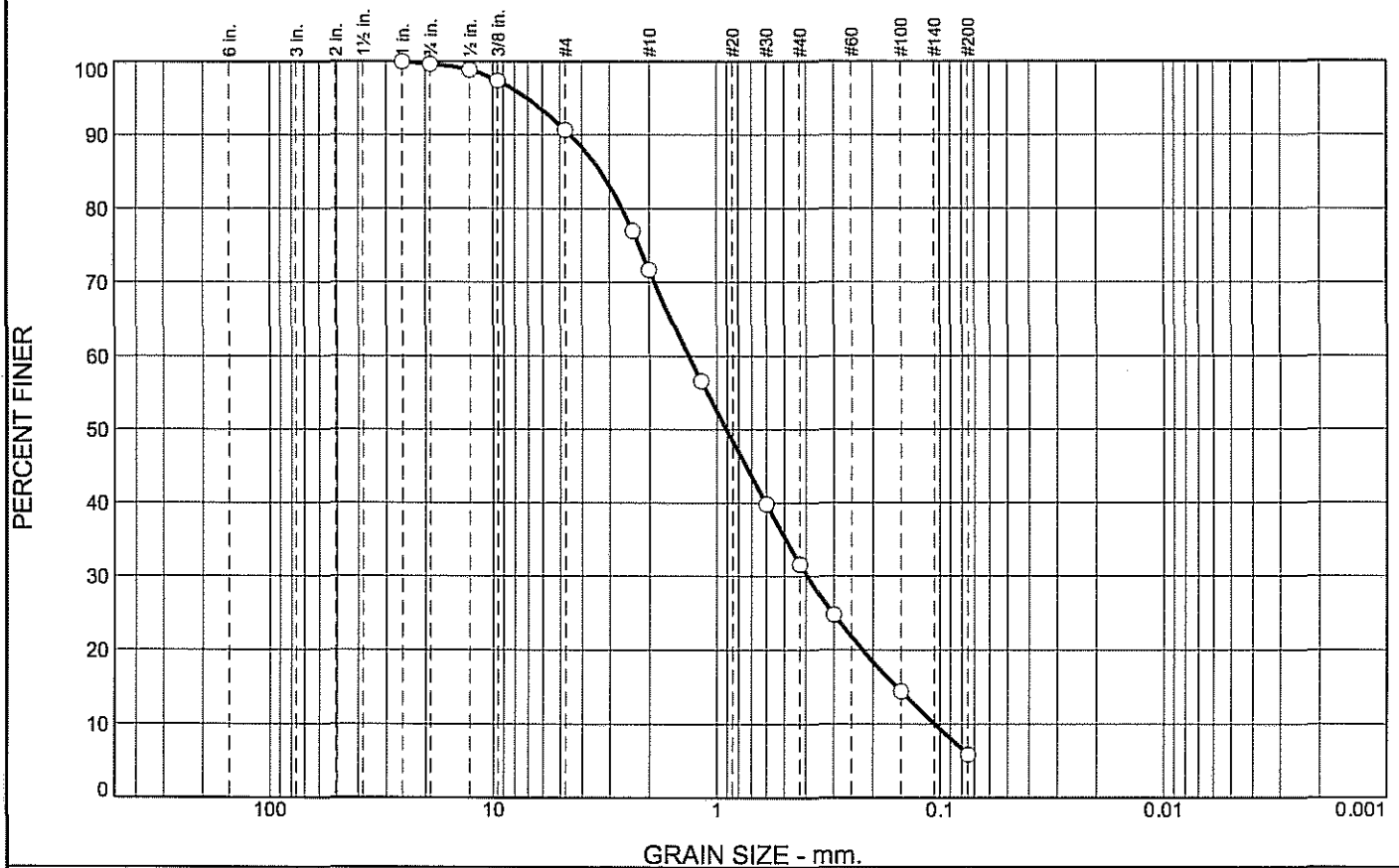
Project No: 20072247V1

Figure 8670

Tested By: JM

Checked By: BLW

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.3	9.0	19.0	40.1	25.7	5.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1	100.0		
.75	99.7		
.5	98.9		
.375	97.4		
#4	90.7		
#8	77.0		
#10	71.7		
#16	56.6		
#30	39.8		
#40	31.6		
#50	24.8		
#100	14.5		
#200	5.9		

Soil Description

Well-graded sand with silt

Atterberg Limits

PL= NP

LL= NV

PI= NP

Coefficients

D₈₅= 3.2837

D₆₀= 1.3408

D₅₀= 0.9080

D₃₀= 0.3950

D₁₅= 0.1563

D₁₀= 0.1055

C_u= 12.71

C_c= 1.10

Classification

USCS= SW-SM

AASHTO= A-1-b

Remarks

ENTERED BY:BLW

* (no specification provided)

Sample No.: UD-5

Source of Sample: LAB#8670

Date: 9/26/07

Location: UD-5

Elev./Depth:



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SERVICES, INC.**

Client: BRC

Project: BRC EAST SIDE GEOTECH SAMPLING

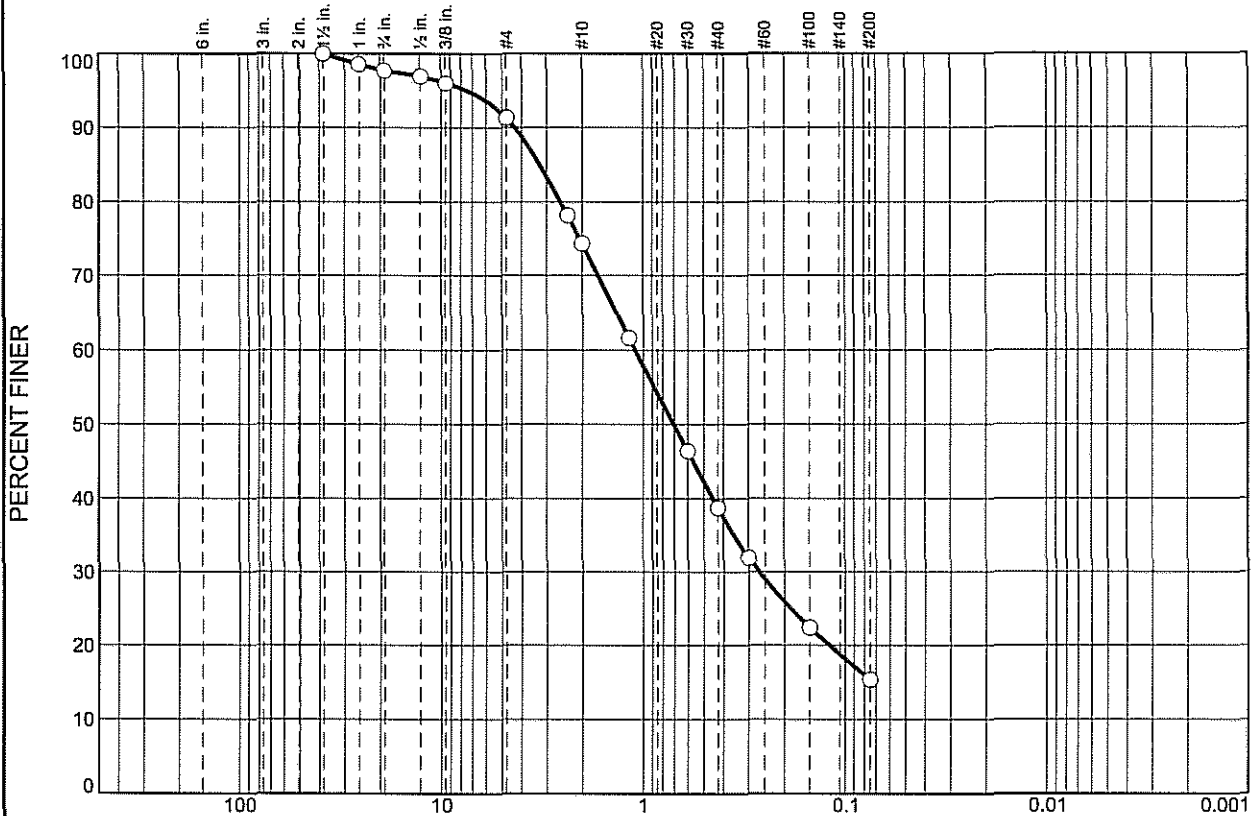
Project No: 20072247V1

Figure 8670

Tested By: DG

Checked By: BLW

Particle Size Distribution Report



GRAIN SIZE - mm.

% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	2.3	6.4	17.0	35.6	23.3	15.4	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5	100.0		
1	98.6		
.75	97.7		
.5	97.0		
.375	96.0		
#4	91.3		
#8	78.1		
#10	74.3		
#16	61.6		
#30	46.4		
#40	38.7		
#50	31.9		
#100	22.4		
#200	15.4		

* (no specification provided)

Soil Description

Silty sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₈₅= 3.2435 D₆₀= 1.0994 D₅₀= 0.7046
D₃₀= 0.2671 D₁₅= D₁₀=
C_u= C_c=

Classification

USCS= SM AASHTO= A-1-b

Remarks

ENTERED BY:BLW

Sample No.: UD-7
Location: UD-7

Source of Sample: LAB#8670

Date: 9/26/07
Elev./Depth:



GEOTECHNICAL &
ENVIRONMENTAL
SERVICES, INC.

Client: BRC
Project: BRC EAST SIDE GEOTECH SAMPLING

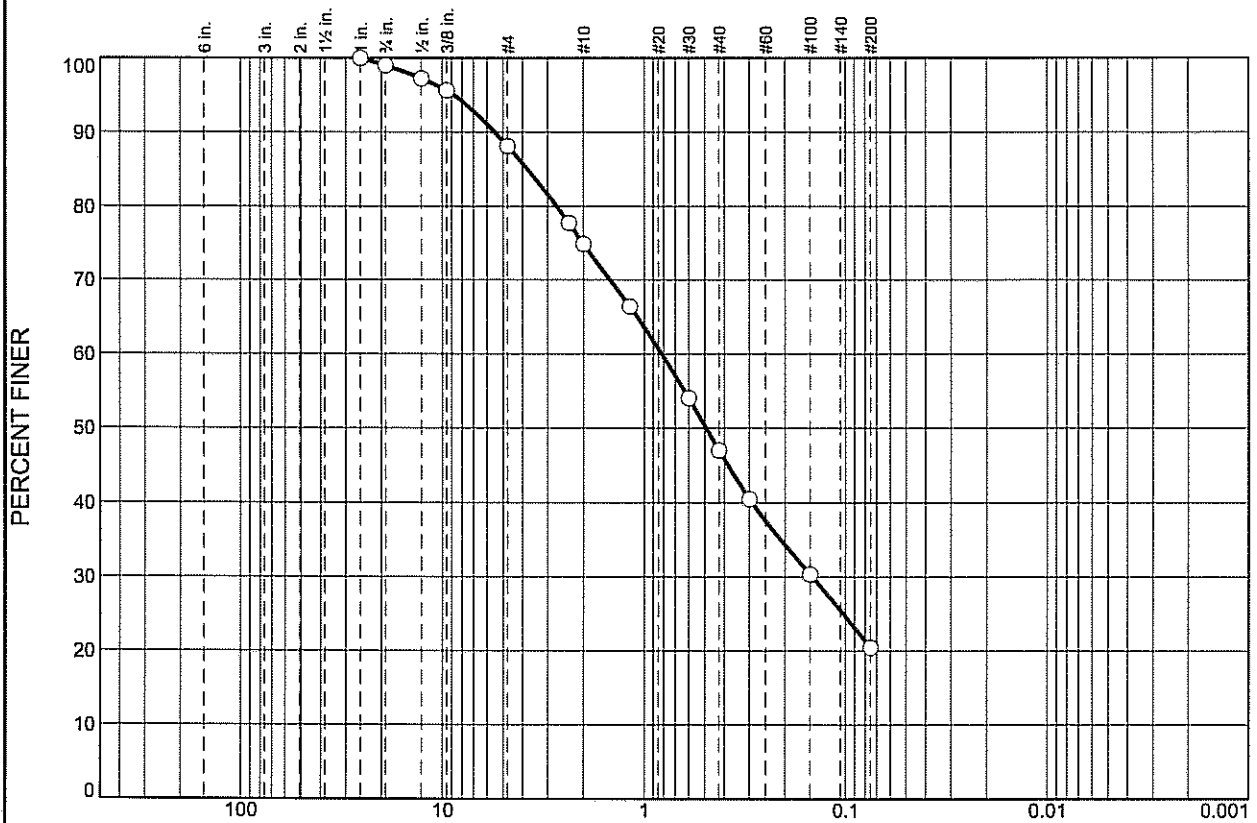
Project No: 20072247V1

Figure 8670

Tested By: JM

Checked By: BLW

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	1.0	10.9	13.2	27.9	26.5	20.5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1	100.0		
.75	99.0		
.5	97.3		
.375	95.7		
#4	88.1		
#8	77.7		
#10	74.9		
#16	66.4		
#30	54.1		
#40	47.0		
#50	40.5		
#100	30.4		
#200	20.5		

* (no specification provided)

Soil Description

Silty sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₈₅= 3.7763 D₆₀= 0.8173 D₅₀= 0.4920
D₃₀= 0.1461 D₁₅= D₁₀=
C_u= C_c=

Classification

USCS= SM AASHTO= A-1-b

Remarks

SAMPLED:09/13/07
ENTERED BY:AS

Sample No.: UE-3
Location: UE-3

Source of Sample: LAB#8670

Date: 09/21/07
Elev./Depth:



GEOTECHNICAL &
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SERVICES, INC.

Client: BRC
Project: BRC EAST SIDE GEOTECH SAMPLING

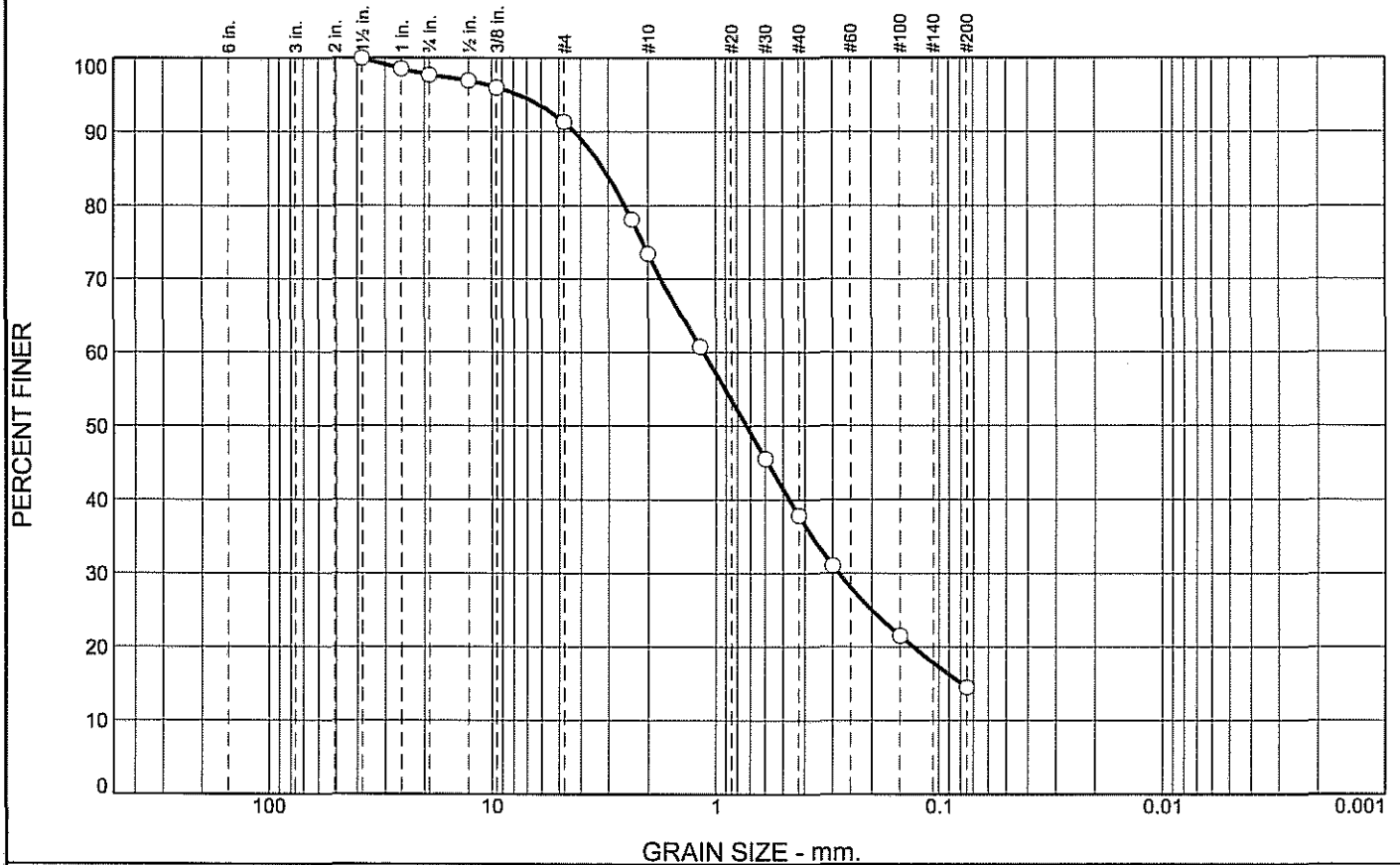
Project No: 20072247V1

Figure 8670

Tested By: DG

Checked By: AS

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	2.3	6.4	17.9	35.5	23.4	14.5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5	100.0		
1	98.6		
.75	97.7		
.5	97.0		
.375	96.0		
#4	91.3		
#8	78.1		
#10	73.4		
#16	60.8		
#30	45.5		
#40	37.9		
#50	31.1		
#100	21.5		
#200	14.5		

* (no specification provided)

Soil Description
Silty sand

Atterberg Limits
 PL= NP LL= NV PI= NP

Coefficients
 D₈₅= 3.1542 D₆₀= 1.1397 D₅₀= 0.7304
 D₃₀= 0.2819 D₁₅= 0.0790 D₁₀=
 C_u= C_c=

Classification
 USCS= SM AASHTO= A-1-b

Remarks
 ENTERED BY:BLW

Sample No.: UE-5
Location: UE-5

Source of Sample: LAB#8670

Date: 9/26/07
Elev./Depth:



GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

Client: BRC
Project: BRC EAST SIDE GEOTECH SAMPLING

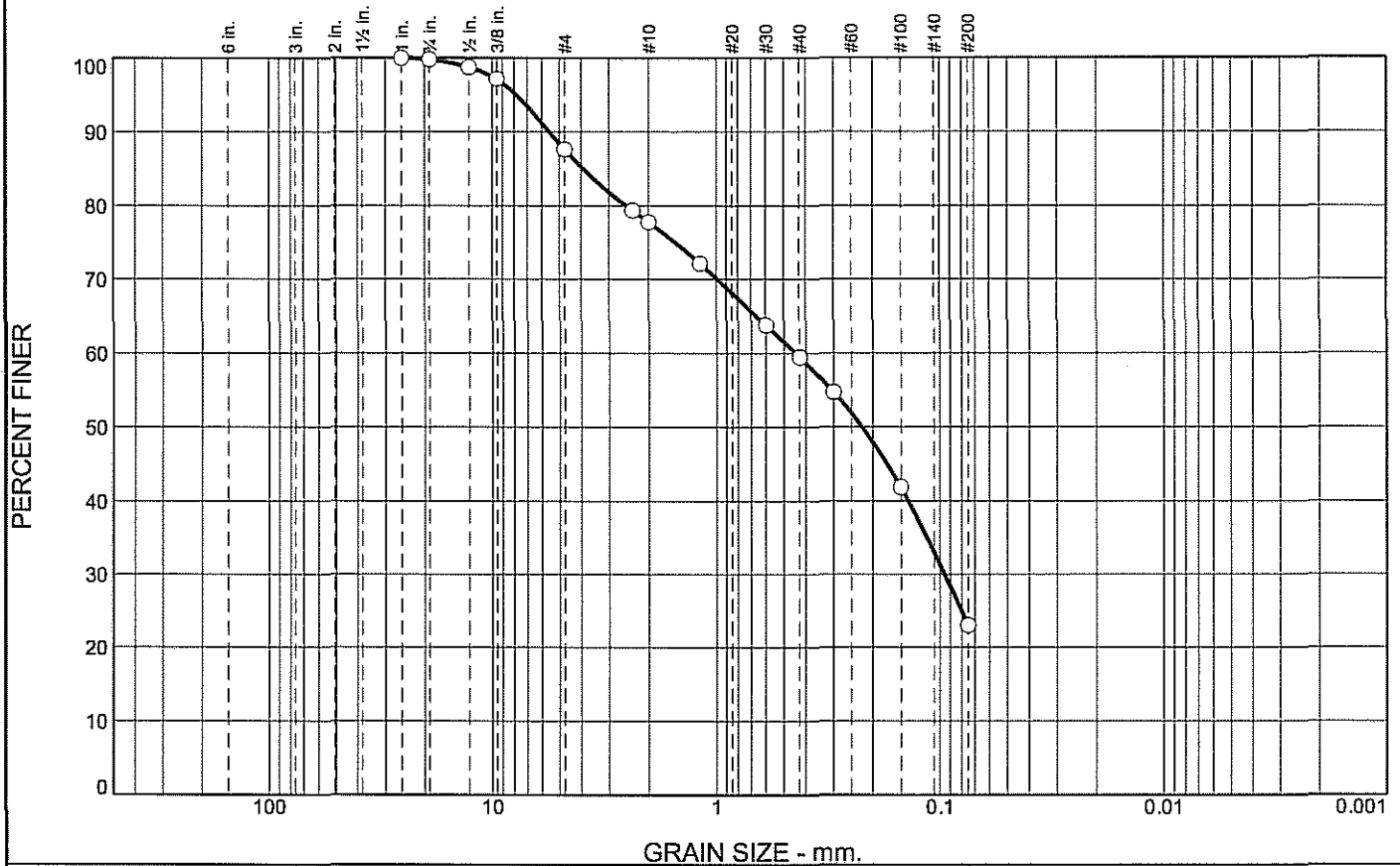
Project No: 20072247V1

Figure 8670

Tested By: JM

Checked By: BLW

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.2	12.2	9.8	18.3	36.5	23.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1	100.0		
.75	99.8		
.5	98.8		
.375	97.2		
#4	87.6		
#8	79.4		
#10	77.8		
#16	72.1		
#30	63.8		
#40	59.5		
#50	54.7		
#100	41.9		
#200	23.0		

Soil Description

Silty sand

Atterberg Limits

PL= NP

LL= NV

PI= NP

Coefficients

D₈₅= 3.9227

D₆₀= 0.4423

D₅₀= 0.2238

D₃₀= 0.0955

D₁₅=

D₁₀=

C_u=

C_c=

Classification

USCS= SM

AASHTO= A-2-4(0)

Remarks

SAMPLED:09/13/07

ENTERED BY:AS

* (no specification provided)

Sample No.: UF-2

Source of Sample: LAB#8670

Date: 09/21/07

Location: UF-2

Elev./Depth:



**GEOTECHNICAL &
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SERVICES, INC.**

Client: BRC

Project: BRC EAST SIDE GEOTECH SAMPLING

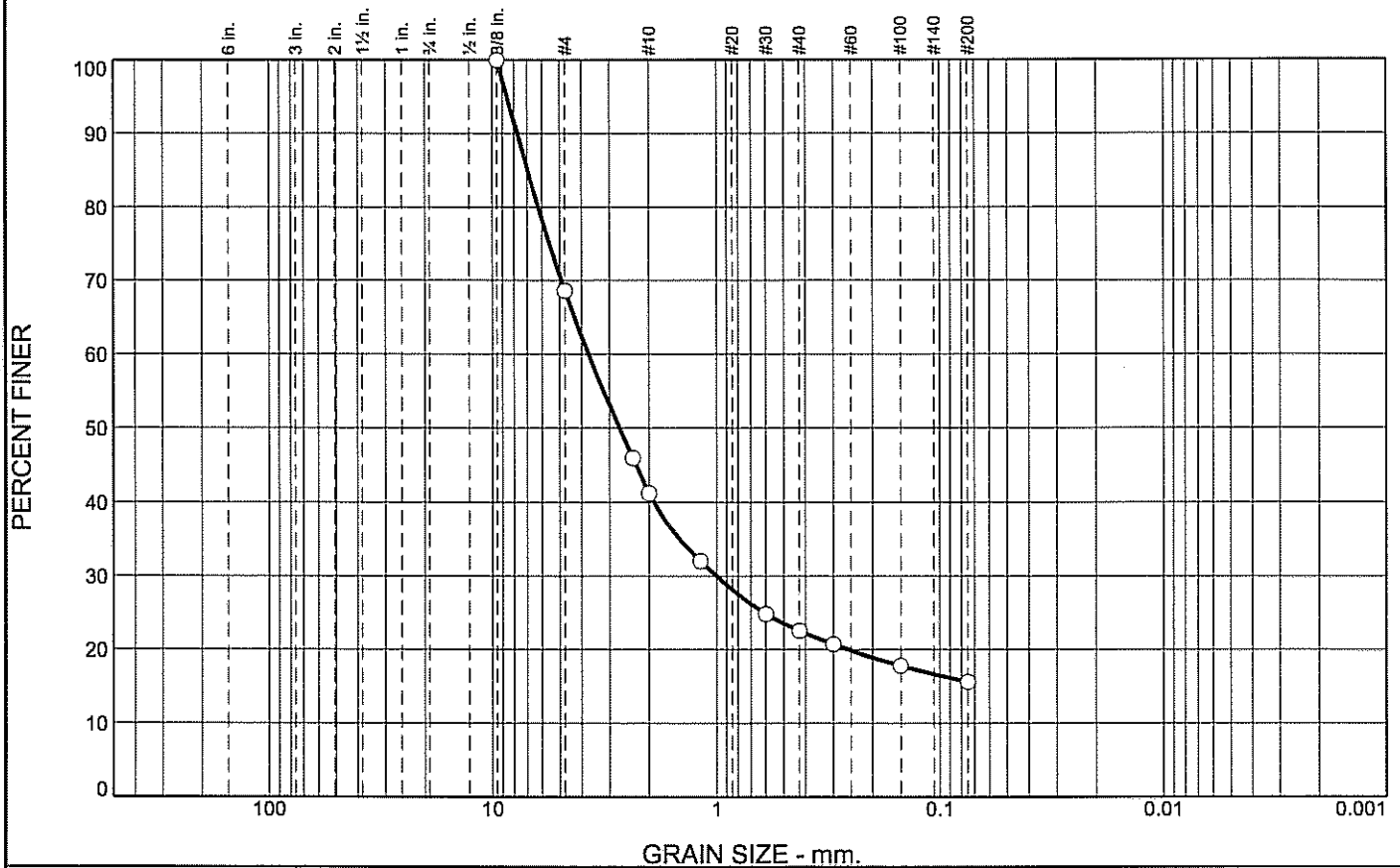
Project No: 20072247V1

Figure 8670

Tested By: DG

Checked By: AS

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	31.4	27.4	18.6	7.0	15.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375	100.0		
#4	68.6		
#8	46.0		
#10	41.2		
#16	32.0		
#30	24.9		
#40	22.6		
#50	20.7		
#100	17.8		
#200	15.6		

Soil Description

Silty sand with gravel

Atterberg Limits

PL= NP

LL= NV

PI= NP

Coefficients

D₈₅= 6.9558

D₆₀= 3.7300

D₅₀= 2.7034

D₃₀= 0.9981

D₁₅=

D₁₀=

C_u=

C_c=

Classification

USCS= SM

AASHTO= A-1-b

Remarks

ENTERED BY:BLW

* (no specification provided)

Sample No.: UF-6

Source of Sample: LAB#8670

Date: 9/26/07

Location: UF-6

Elev./Depth:



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SERVICES, INC.**

Client: BRC

Project: BRC EAST SIDE GEOTECH SAMPLING

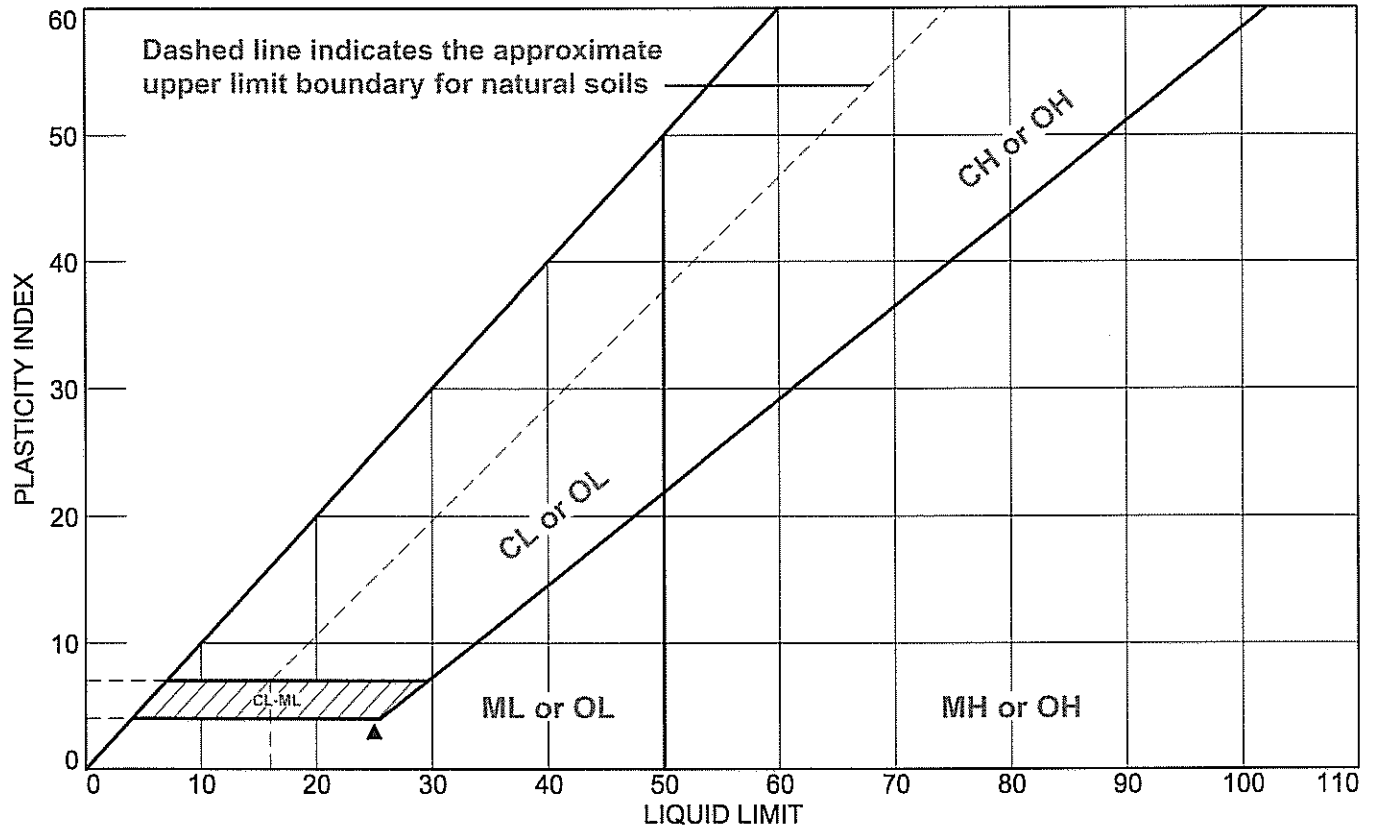
Project No: 20072247V1

Figure 8670

Tested By: JM

Checked By: BLW

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

	SOURCE	SAMPLE NO.	DEPTH (ft.)	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	LAB#8670	TP-1			NP	NV	NP	ML
■	LAB#8670	TP-2			NP	NV	NP	ML
▲	LAB#8670	TP-3			22	25	3	ML
◆	LAB#8670	TP-4			NP	NV	NP	ML
▼	LAB#8670	TP-5			NP	NV	NP	ML
*	LAB#8670	TP-6			NP	NV	NP	ML
⊕	LAB#8670	TP-7			NP	NV	NP	ML
⊞	LAB#8670	TP-8			NP	NV	NP	ML
⊗	LAB#8670	TP-9			NP	NV	NP	ML
⊠	LAB#8670	TP-10			NP	NV	NP	ML



**GEOTECHNICAL &
ENVIRONMENTAL
SERVICES, INC.**

Client: BRC

Project: BRC EAST SIDE GEOTECH SAMPLING

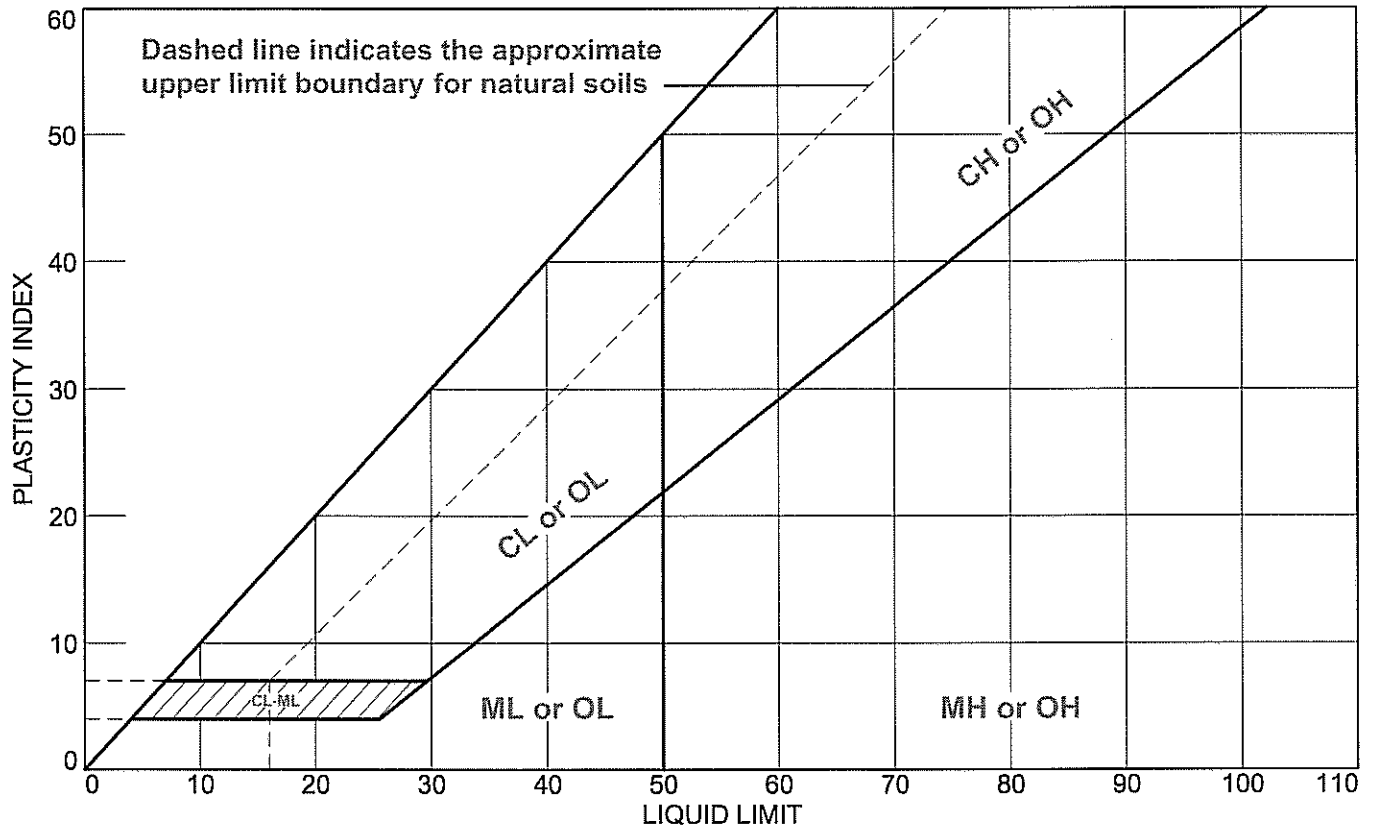
Project No.: 20072247V1

Figure 8670-1

Tested By: JK

Checked By: AS

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

	SOURCE	SAMPLE NO.	DEPTH (ft.)	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	LAB#8670	TP-11			NP	NV	NP	ML
■	LAB#8670	TP-12			NP	NV	NP	ML
▲	LAB#8670	TP-13			NP	NV	NP	ML
◆	LAB#8670	TP-14			NP	NV	NP	SM
▼	LAB#8670	TP-15			NP	NV	NP	ML
*	LAB#8670	TP-16			NP	NV	NP	ML
⊕	LAB#8670	UA-7			NP	NV	NP	SM
⊞	LAB#8670	UA-9			NP	NV	NP	ML
⊗	LAB#8670	UB-9			NP	NV	NP	ML
⊠	LAB#8670	UC-6			NP	NV	NP	SM



**GEOTECHNICAL &
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SERVICES, INC.**

Client: BRC

Project: BRC EAST SIDE GEOTECH SAMPLING

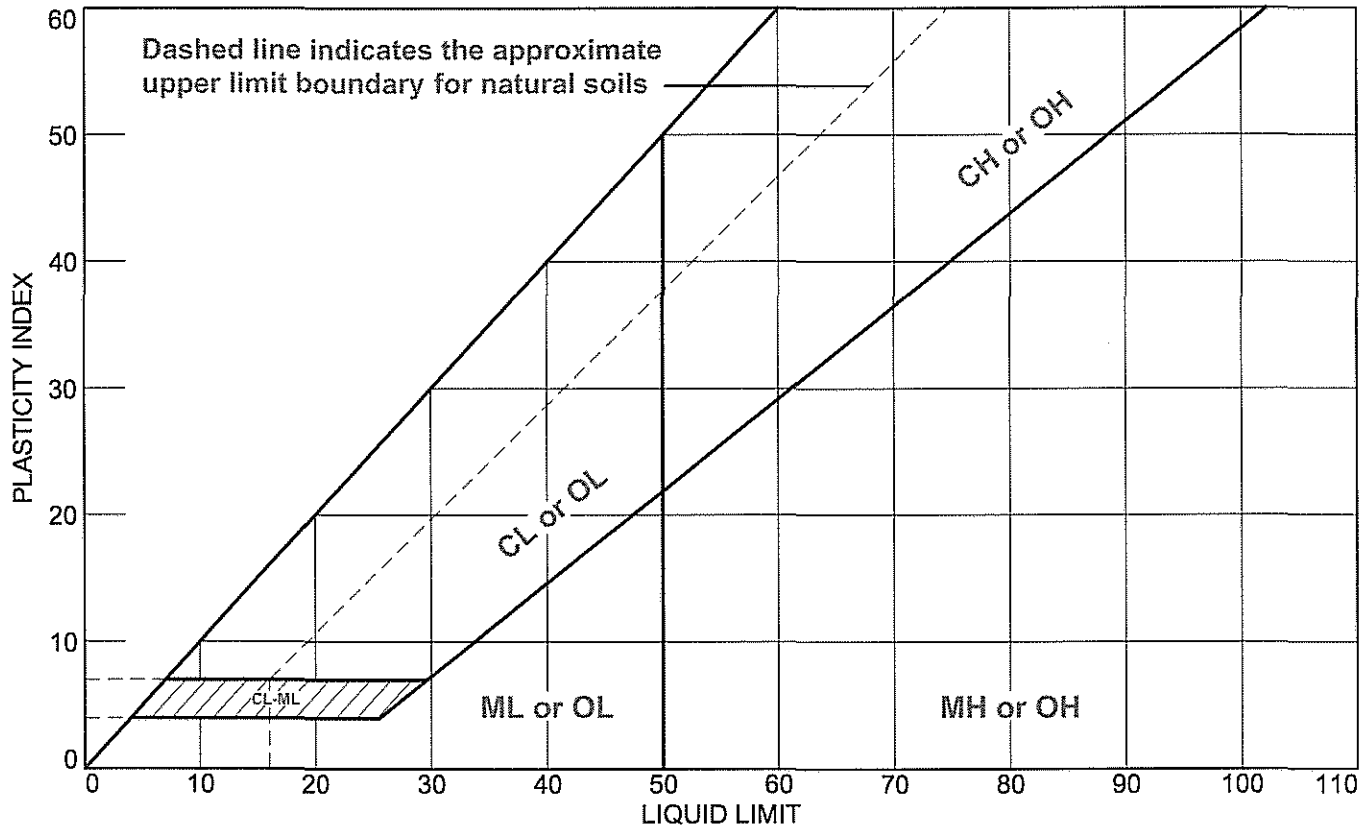
Project No.: 20072247V1

Figure 8670-2

Tested By: JK

Checked By: AS

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

	SOURCE	SAMPLE NO.	DEPTH (ft.)	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	LAB#8670	UD-5			NP	NV	NP	SW-SM
■	LAB#8670	UD-7			NP	NV	NP	SM
▲	LAB#8670	UE-3			NP	NV	NP	SM
◆	LAB#8670	UE-5			NP	NV	NP	SM
▼	LAB#8670	UF-2			NP	NV	NP	SM
*	LAB#8670	UF-6			NP	NV	NP	SM



**GEOTECHNICAL &
ENVIRONMENTAL
SERVICES, INC.**

Client: BRC

Project: BRC EAST SIDE GEOTECH SAMPLING

Project No.: 20072247V1

Figure 8670-3

Tested By: JK

Checked By: AS

COMPACTION TEST REPORT

Curve No.: 8670

Project No.: 20072247V1

Date: 9/28/07

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: TP-1

Elev./Depth:

Sample No. TP-1

Remarks: ENTERED BY:BLW

MATERIAL DESCRIPTION

Description: Sandy silt

Classifications -

USCS: ML

AASHTO: A-4(0)

Nat. Moist. =

Sp.G. = 2.65

Liquid Limit = NV

Plasticity Index = NP

% > No.4 = 0.0 %

% < No.200 = 68.9 %

TEST RESULTS

Maximum dry density = 86.5 pcf

Optimum moisture = 22.5 %

Test specification:

ASTM D 1557-02 Method A Modified

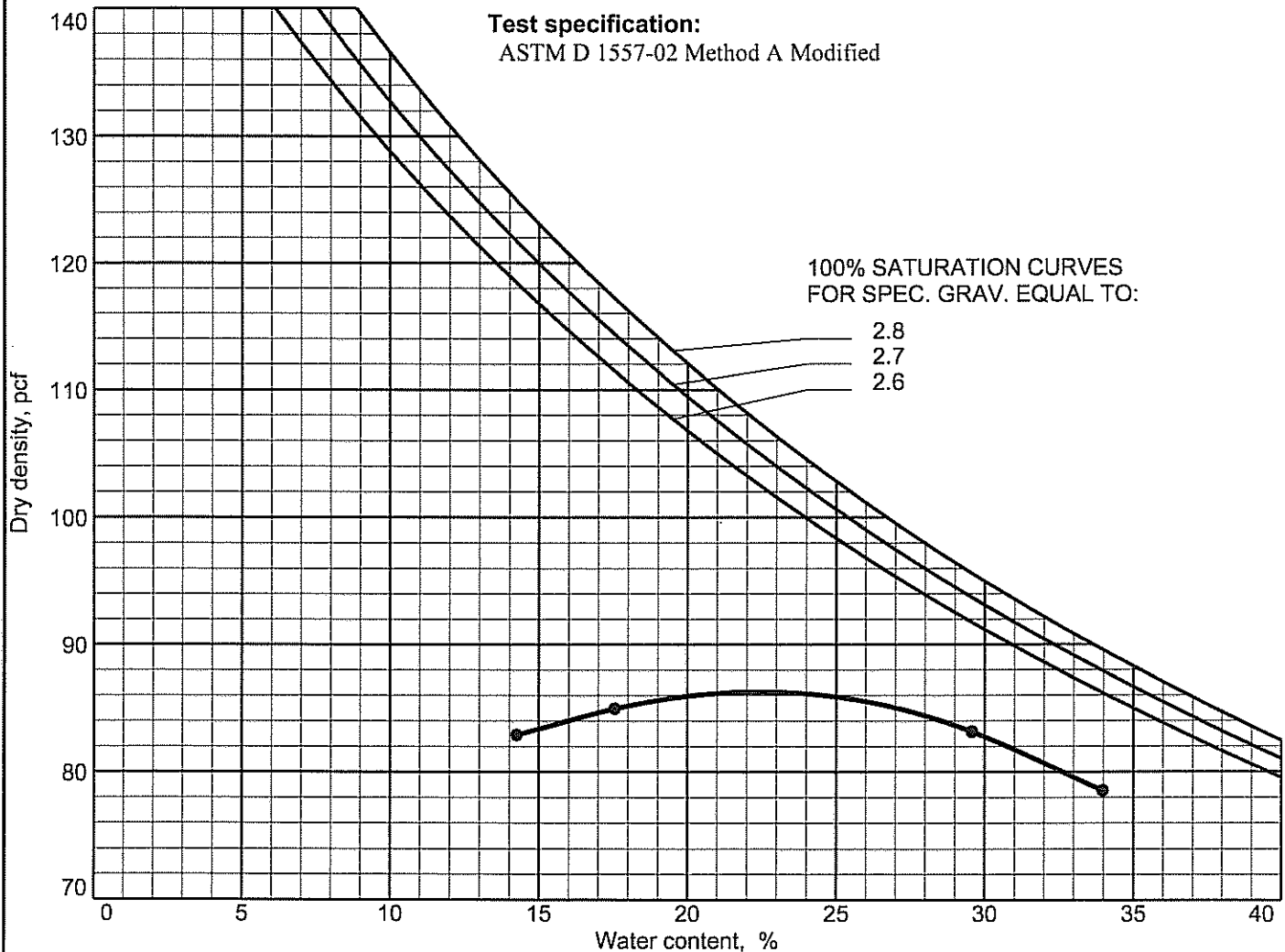


Figure 8670

COMPACTION TEST REPORT

Curve No.: 8670

Project No.: 20072247V1

Date: 09/23/07

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: TP-2

Elev./Depth:

Sample No. TP-2

Remarks: ENTERED BY:AS

MATERIAL DESCRIPTION

Description: Silt

Classifications -

USCS: ML

AASHTO: A-4(0)

Nat. Moist. =

Sp.G. = 2.65

Liquid Limit = NV

Plasticity Index = NP

% > No.4 = 0.0 %

% < No.200 = 97.4 %

ROCK CORRECTED TEST RESULTS

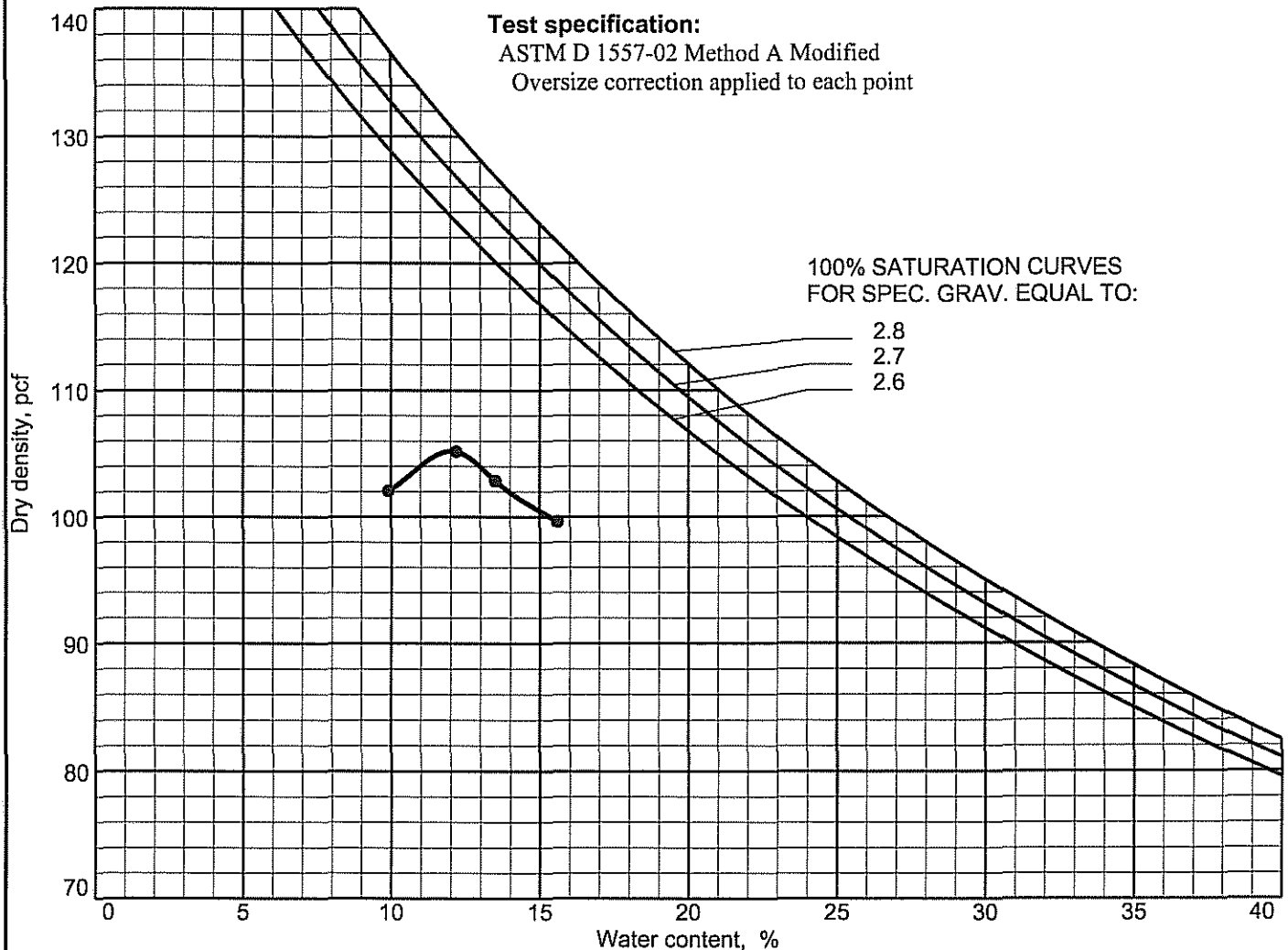
Maximum dry density = 105.0 pcf

Optimum moisture = 12.0 %

Test specification:

ASTM D 1557-02 Method A Modified

Oversize correction applied to each point



COMPACTION TEST REPORT

Curve No.: 8670

Project No.: 20072247V1

Date: 9/25/07

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: TP-3

Elev./Depth:

Sample No. TP-3

Remarks: ENTERED BY:BLW

MATERIAL DESCRIPTION

Description:

Classifications -

USCS: ML

AASHTO: A-4(2)

Nat. Moist. =

Sp.G. = 2.50

Liquid Limit = 25

Plasticity Index = 3

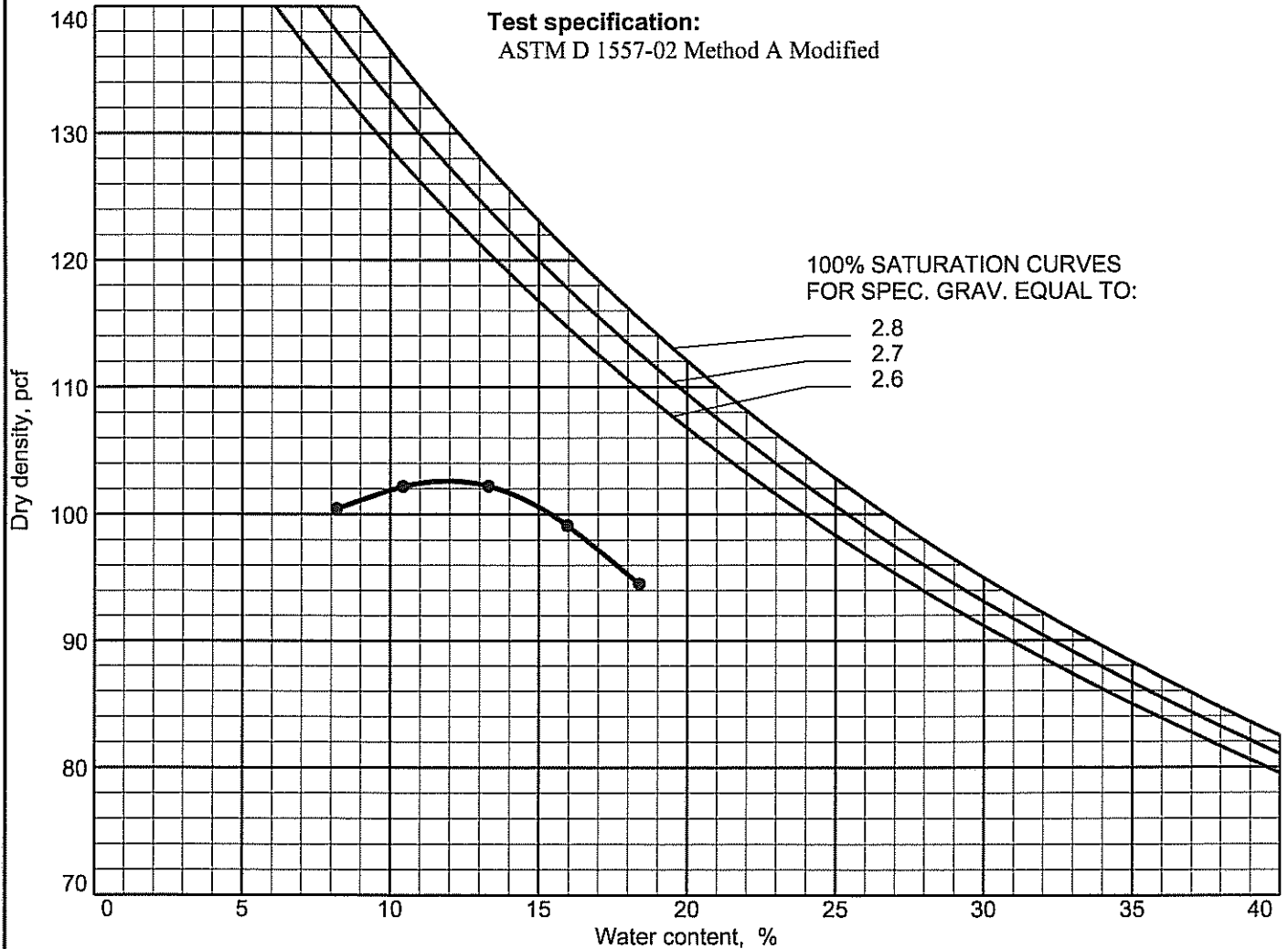
% > No.4 = %

% < No.200 = 95.2 %

TEST RESULTS

Maximum dry density = 102.5 pcf

Optimum moisture = 12.0 %



COMPACTION TEST REPORT

Curve No.: 8670

Project No.: 20072247V1

Date: 09/27/07

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: TP-4

Elev./Depth:

Sample No. TP-4

Remarks: ENTERED BY:AS

MATERIAL DESCRIPTION

Description:

Classifications -

USCS: ML

AASHTO: A-4(0)

Nat. Moist. =

Sp.G. = 2.65

Liquid Limit = NV

Plasticity Index = NP

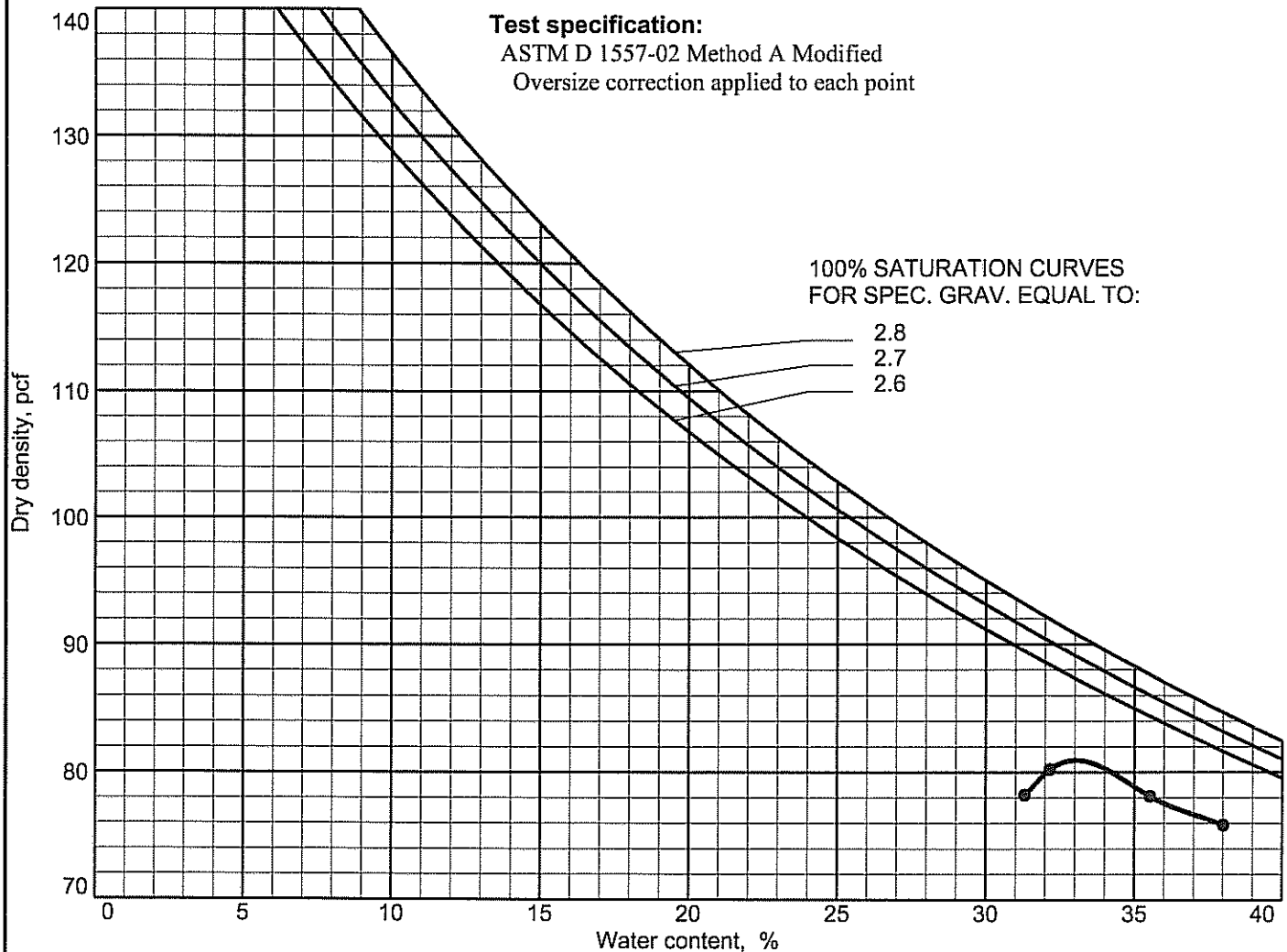
% > No.4 = 0.0 %

% < No.200 = 87.8 %

ROCK CORRECTED TEST RESULTS

Maximum dry density = 81.0 pcf

Optimum moisture = 33.0 %



COMPACTION TEST REPORT

Curve No.: 8683

Project No.: 20072247V1

Date: 09/30/07

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: TP-5

Elev./Depth:

Sample No. TP-5

Remarks: ENTERED BY:AS

MATERIAL DESCRIPTION

Description:

Classifications -

USCS: ML

AASHTO: A-4(0)

Nat. Moist. =

Sp.G. =

Liquid Limit = NV

Plasticity Index = NP

% > No.4 = 0.0 %

% < No.200 = 86.3 %

TEST RESULTS

Maximum dry density = 81.5 pcf

Optimum moisture = 33.0 %

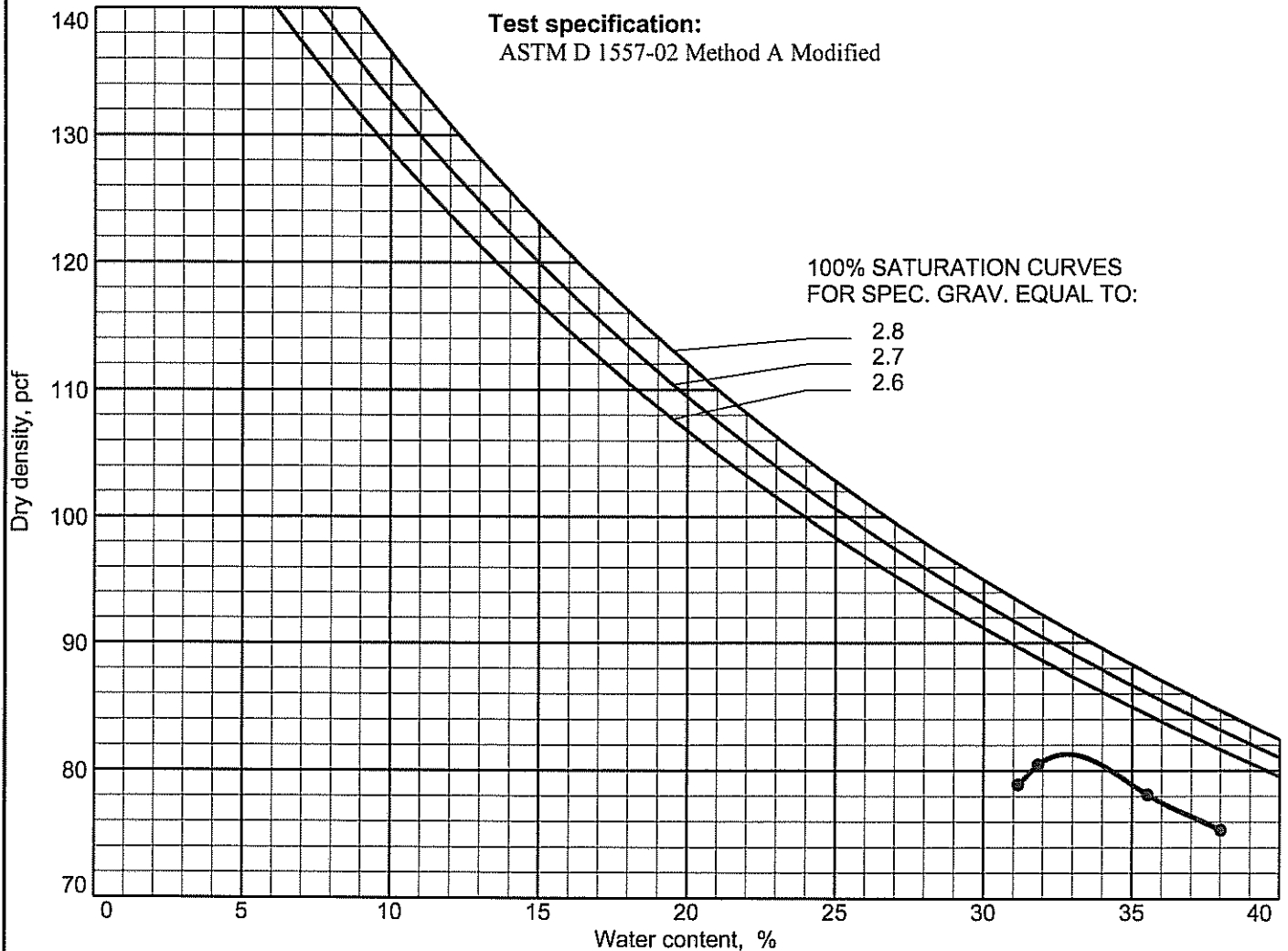


Figure 8670

COMPACTION TEST REPORT

Curve No.: 8670

Project No.: 20072247V1

Date: 09/30/07

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: TP-6

Elev./Depth:

Sample No. TP-6

Remarks: ENTERED BY:AS

MATERIAL DESCRIPTION

Description:

Classifications -

USCS: ML

AASHTO: A-4(0)

Nat. Moist. =

Sp.G. = 2.65

Liquid Limit = NV

Plasticity Index = NP

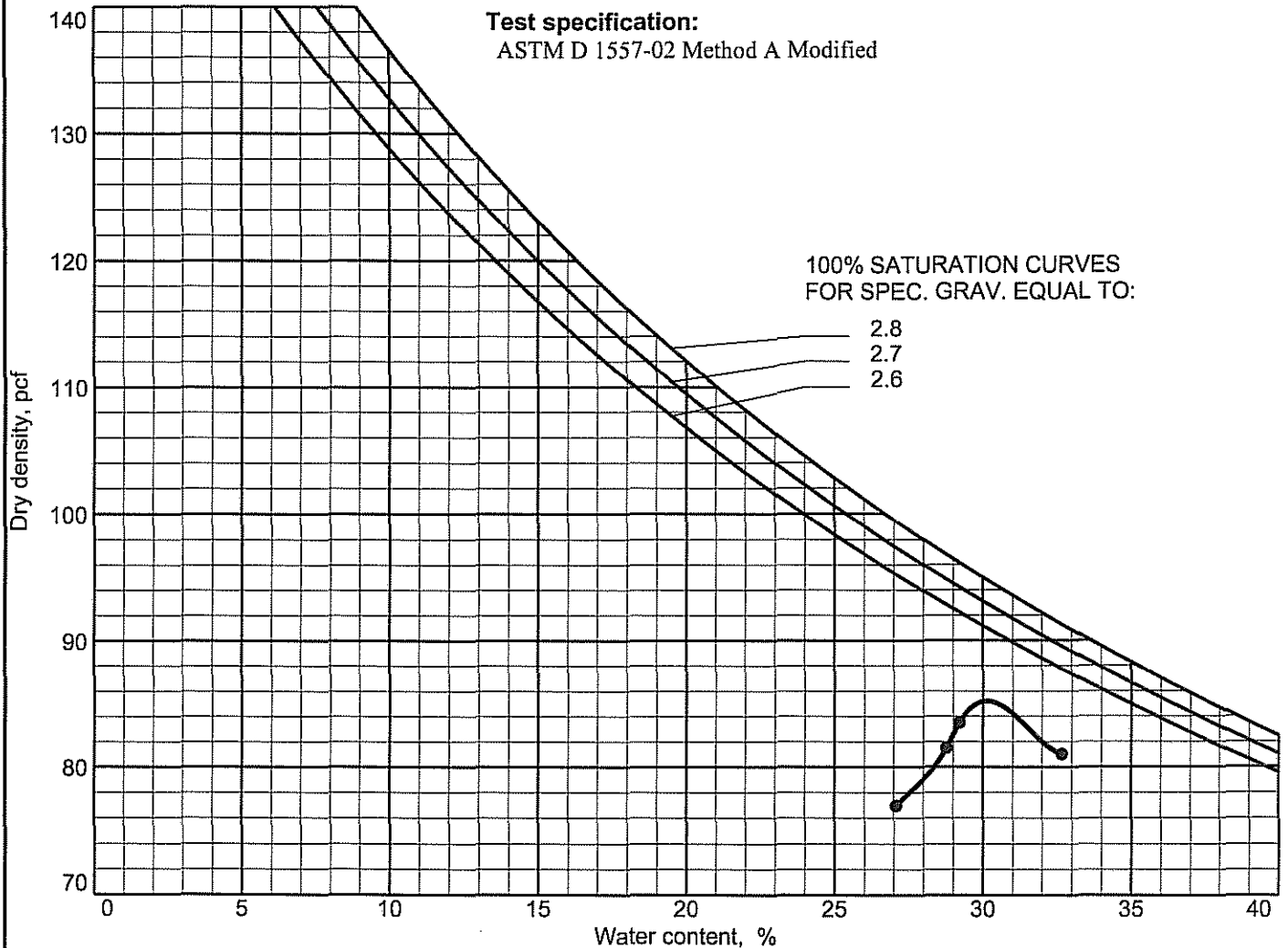
% > No.4 = 0.0 %

% < No.200 = 99.3 %

TEST RESULTS

Maximum dry density = 85.0 pcf

Optimum moisture = 30.0 %



COMPACTION TEST REPORT

Curve No.: 8670

Project No.: 20072247V1

Date: 09/27/07

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: TP-7

Elev./Depth:

Sample No. TP-7

Remarks: ENTERED BY:AS

MATERIAL DESCRIPTION

Description:

Classifications -

USCS: ML

AASHTO: A-4(0)

Nat. Moist. =

Sp.G. = 2.65

Liquid Limit = NV

Plasticity Index = NP

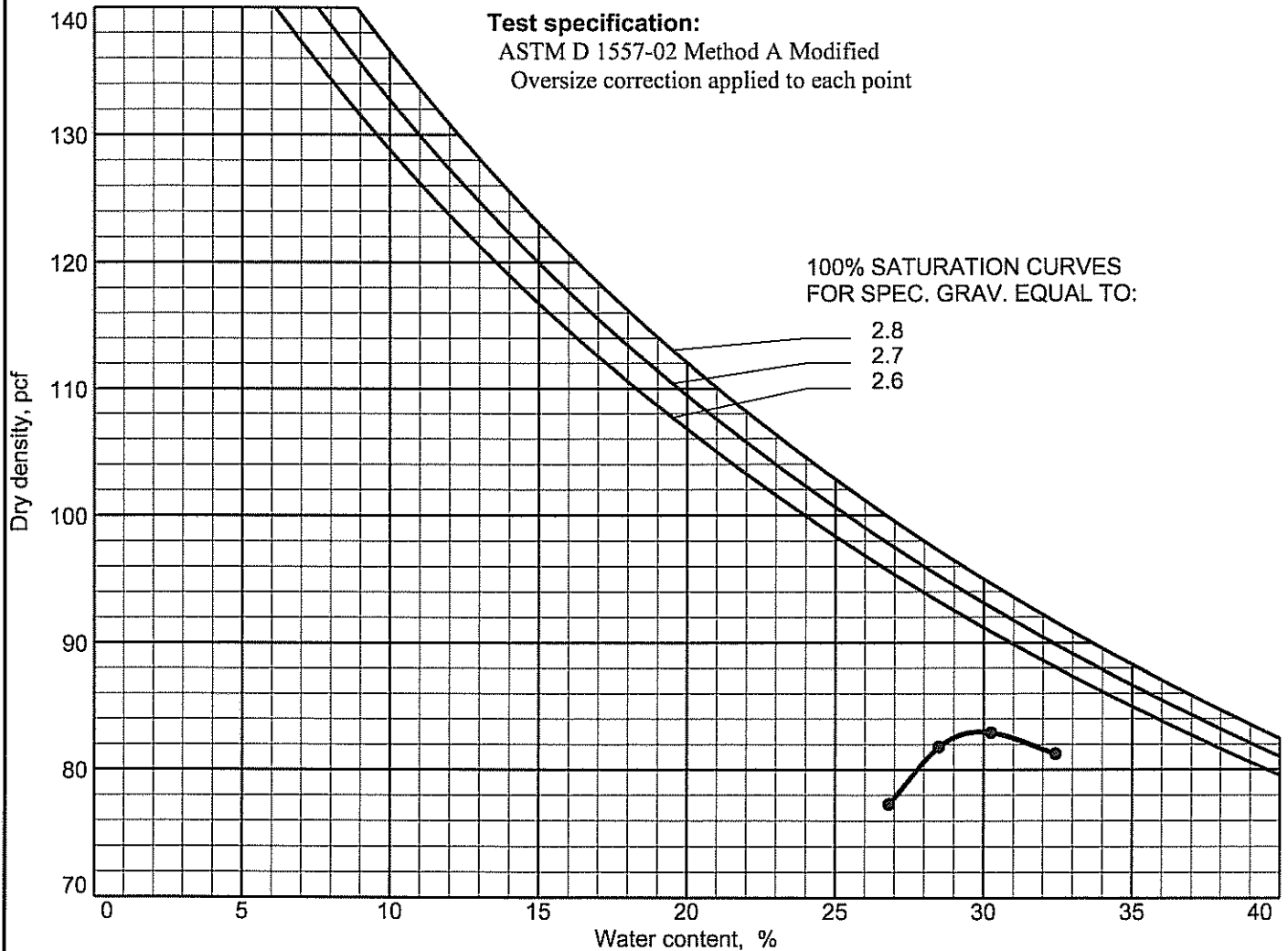
% > No.4 = 0.0 %

% < No.200 = 90.8 %

ROCK CORRECTED TEST RESULTS

Maximum dry density = 83.0 pcf

Optimum moisture = 30.0 %



COMPACTION TEST REPORT

Curve No.: 8670

Project No.: 20072247V1

Date: 09/25/07

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: TP-8

Elev./Depth:

Sample No. TP-8

Remarks: ENTERED BY:AS

MATERIAL DESCRIPTION

Description:

Classifications -

USCS: ML

AASHTO:

Nat. Moist. =

Sp.G. = 2.65

Liquid Limit = NV

Plasticity Index = NP

% > No.4 = 0.0 %

% < No.200 = 91.8 %

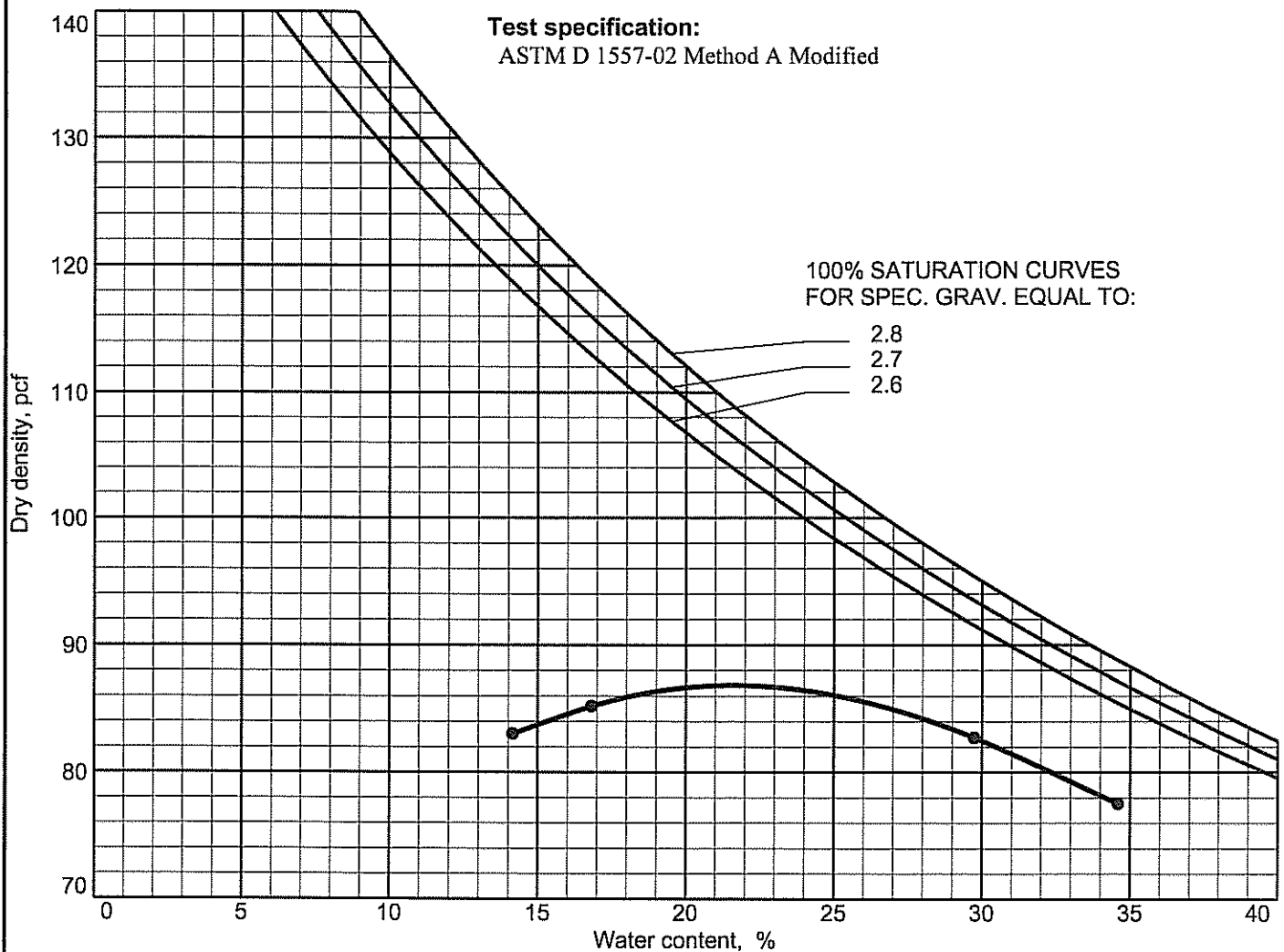
TEST RESULTS

Maximum dry density = 87.0 pcf

Optimum moisture = 21.5 %

Test specification:

ASTM D 1557-02 Method A Modified



COMPACTION TEST REPORT

Curve No.: 8670

Project No.: 20072247V1

Date: 09/26/07

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: TP-9

Elev./Depth:

Sample No. TP-9

Remarks: ENTERED BY:AS

MATERIAL DESCRIPTION

Description:

Classifications -

USCS: ML

AASHTO: A-4(0)

Nat. Moist. =

Sp.G. = 2.65

Liquid Limit = NV

Plasticity Index = NP

% > No.4 = 0.0 %

% < No.200 = 85.5 %

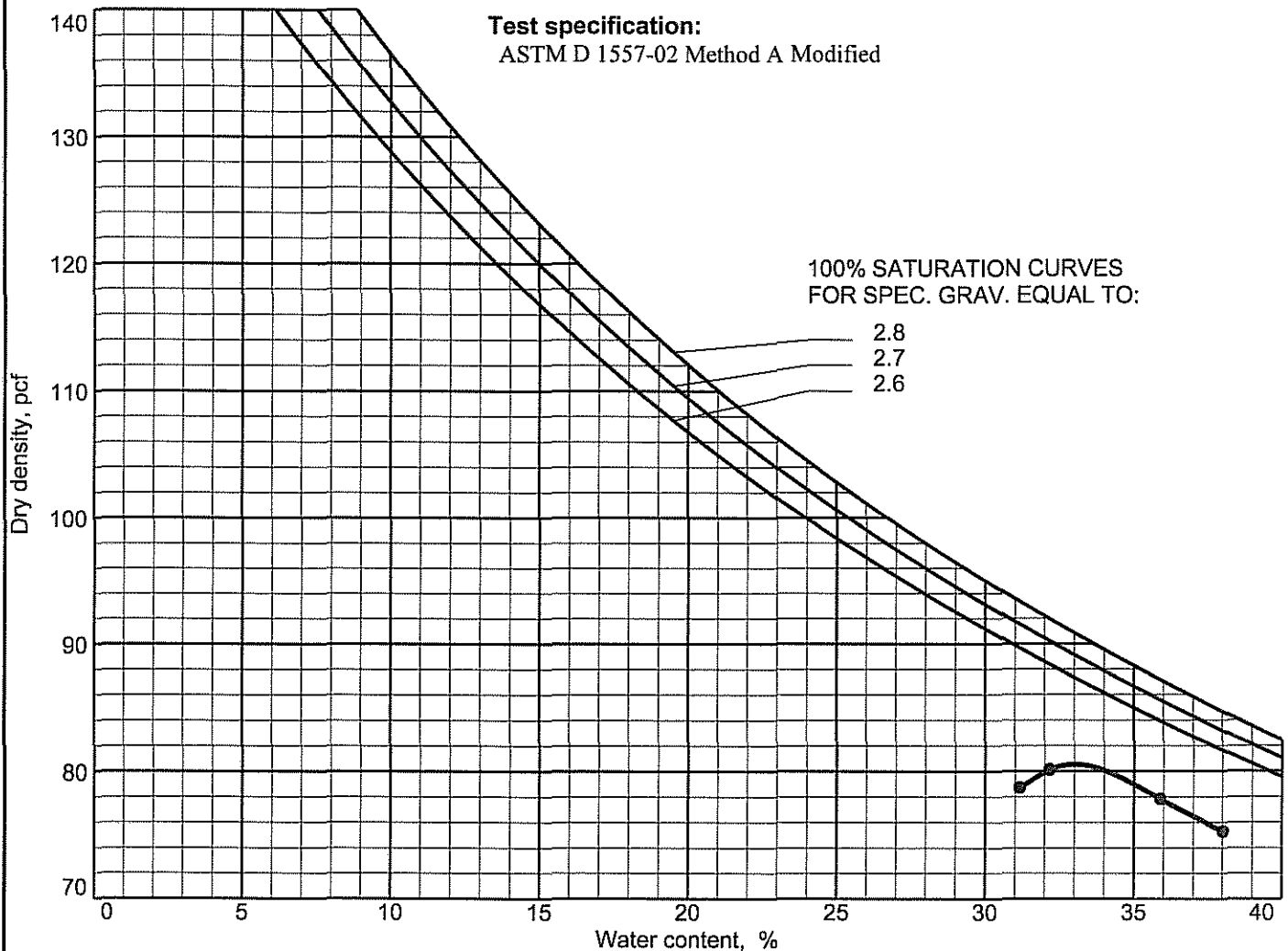
TEST RESULTS

Maximum dry density = 80.5 pcf

Optimum moisture = 33.0 %

Test specification:

ASTM D 1557-02 Method A Modified



COMPACTION TEST REPORT

Curve No.: 8670

Project No.: 20072247V1

Date: 09/28/07

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: TP-10

Elev./Depth:

Sample No. TP-10

Remarks: ENTERED BY:AS

MATERIAL DESCRIPTION

Description:

Classifications -

USCS: ML

AASHTO: A-4(0)

Nat. Moist. =

Sp.G. = 2.65

Liquid Limit = NV

Plasticity Index = NP

% > No.4 = 0.0 %

% < No.200 = 96.0 %

ROCK CORRECTED TEST RESULTS

Maximum dry density = 95.0 pcf

Optimum moisture = 11.0 %

Test specification:

ASTM D 1557-02 Method A Modified

Oversize correction applied to each point

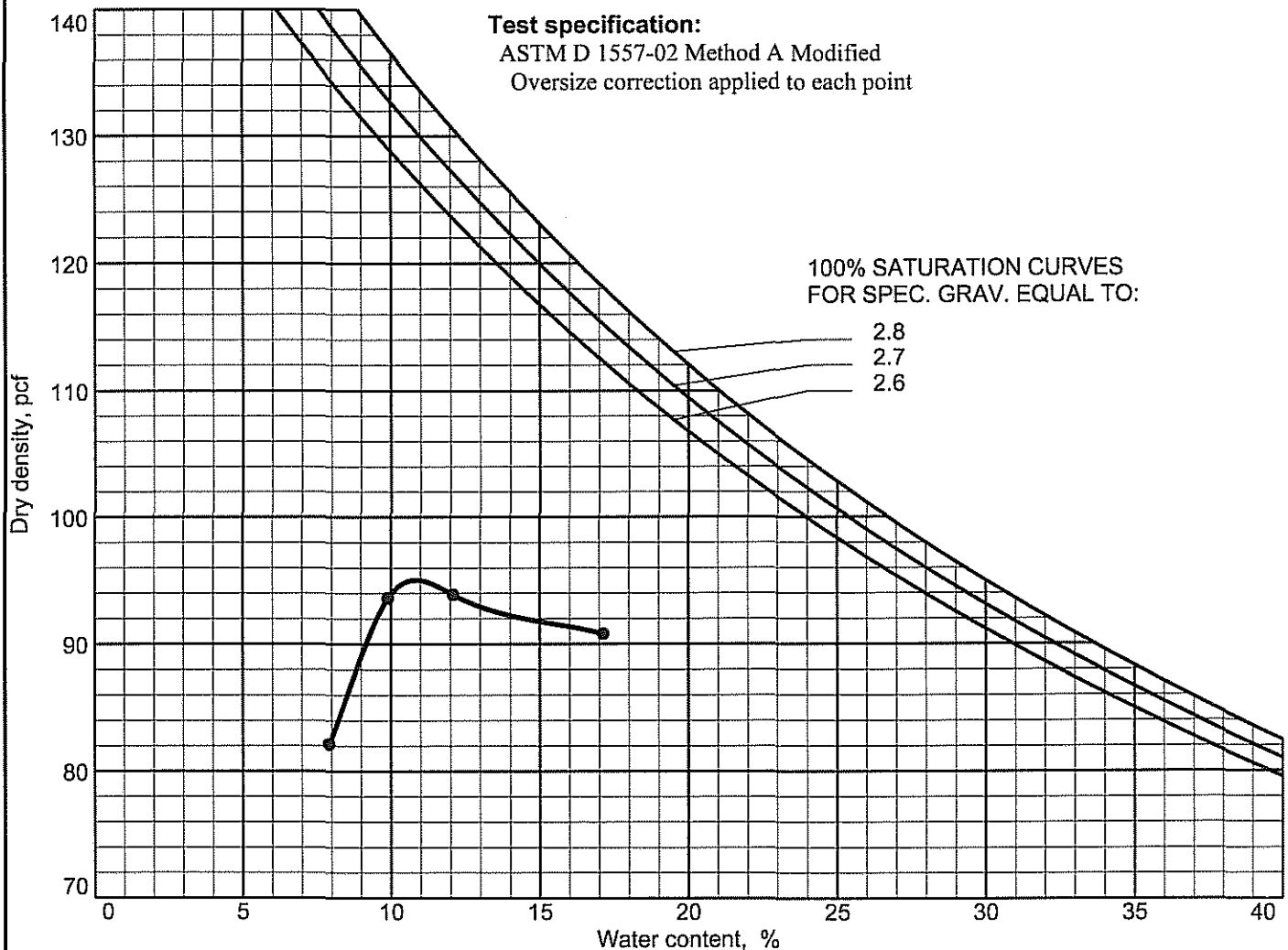


Figure 8670

COMPACTION TEST REPORT

Curve No.: 8670

Project No.: 20072247V1

Date: 09/27/07

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: TP-11

Elev./Depth:

Sample No. TP-11

Remarks: ENTERED BY:AS

MATERIAL DESCRIPTION

Description:

Classifications -

USCS: ML

AASHTO: A-4(0)

Nat. Moist. =

Sp.G. = 2.65

Liquid Limit = NV

Plasticity Index = NP

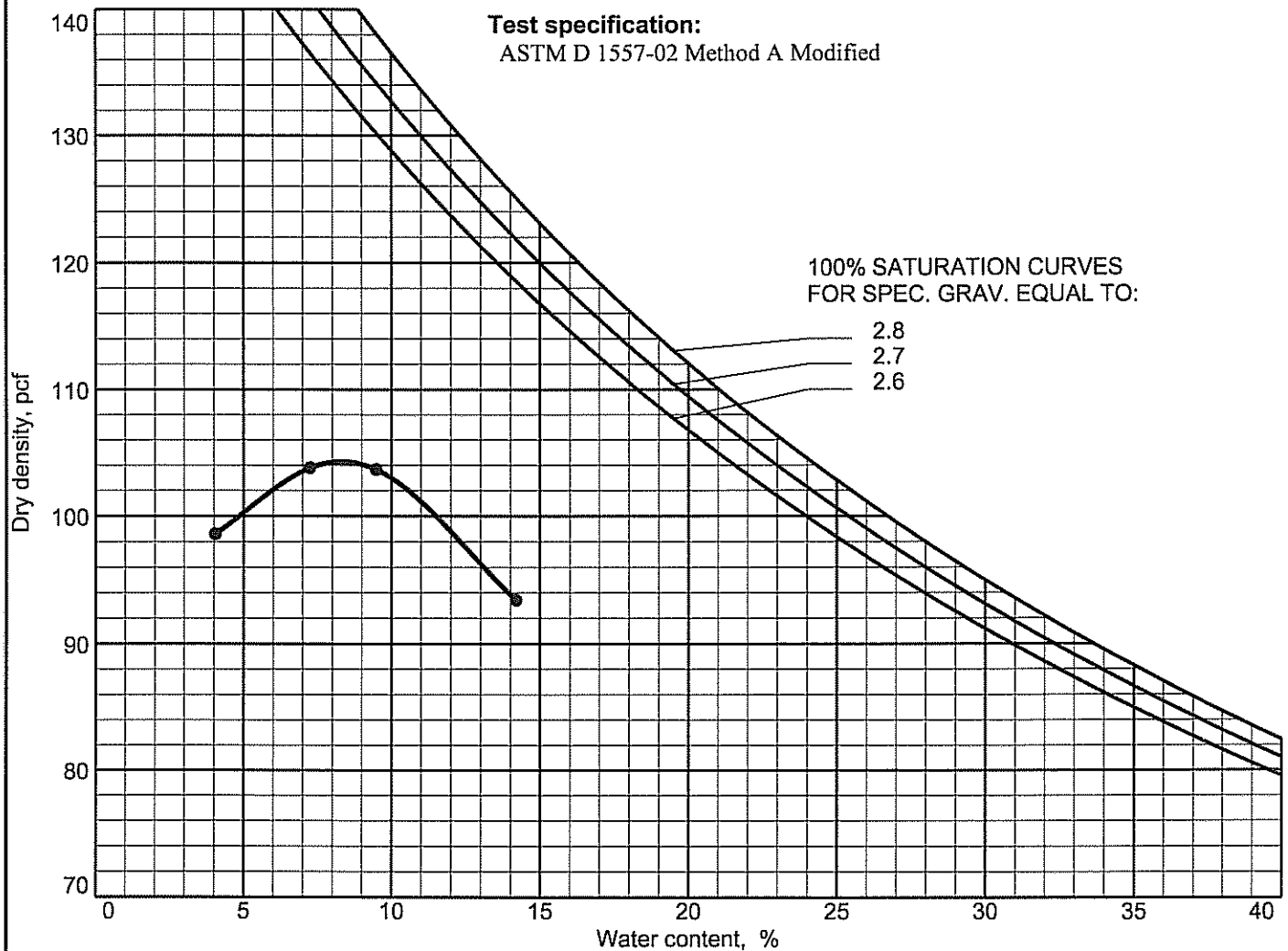
% > No.4 = 0.0 %

% < No.200 = 94.2 %

TEST RESULTS

Maximum dry density = 104.5 pcf

Optimum moisture = 8.5 %



COMPACTION TEST REPORT

Curve No.: 8670

Project No.: 20072247V1

Date: 09/28/07

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: TP-12

Elev./Depth:

Sample No. TP-12

Remarks: ENTERED BY:AS

MATERIAL DESCRIPTION

Description:

Classifications -

USCS: ML

AASHTO: A-4(0)

Nat. Moist. =

Sp.G. = 2.65

Liquid Limit = NV

Plasticity Index = NP

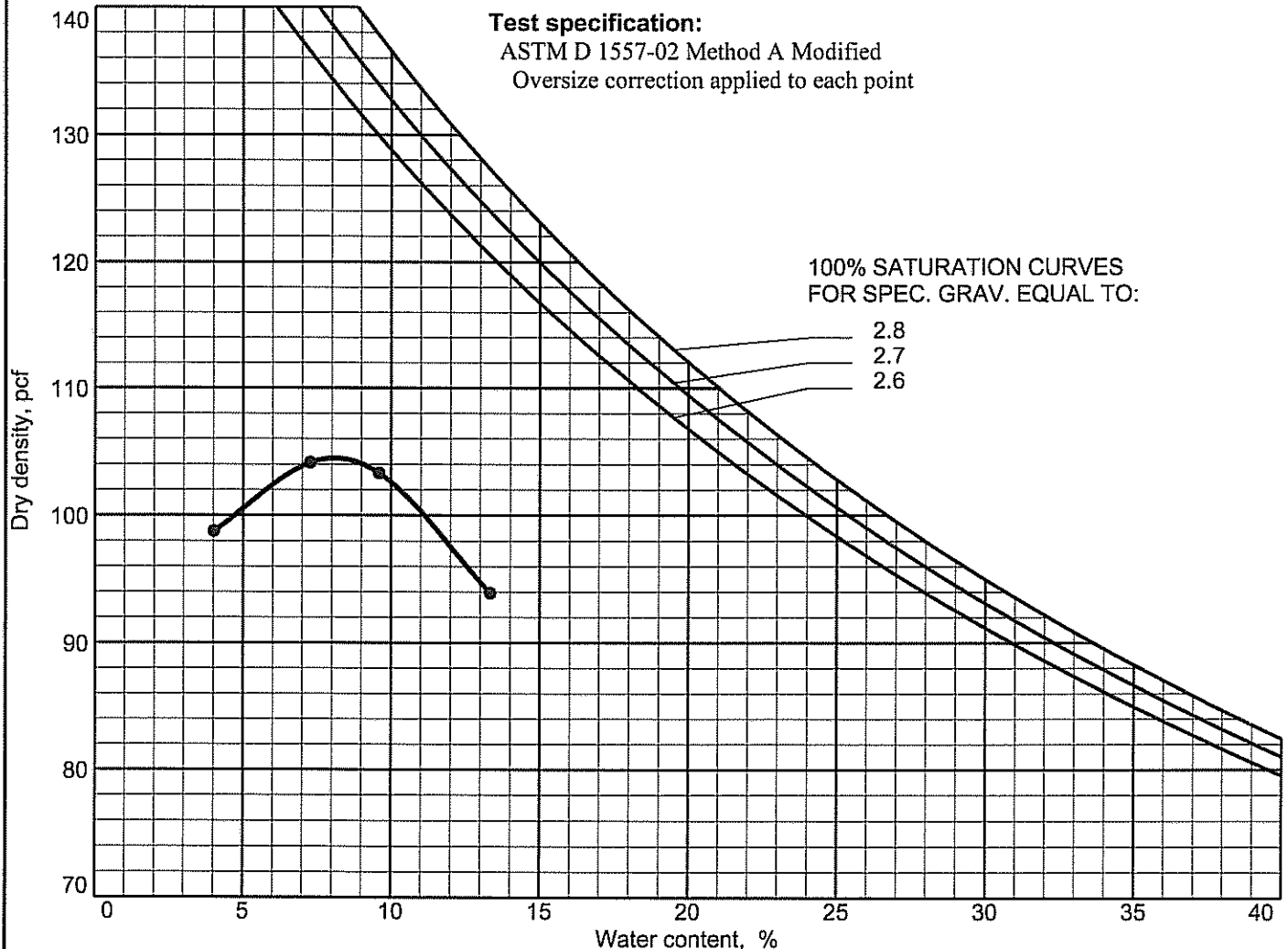
% > No.4 = 0.0 %

% < No.200 = 99.7 %

ROCK CORRECTED TEST RESULTS

Maximum dry density = 104.5 pcf

Optimum moisture = 8.0 %



COMPACTION TEST REPORT

Curve No.: 8670

Project No.: 20072247V1

Date: 09/28/07

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: TP-13

Elev./Depth:

Sample No. TP-13

Remarks: ENTERED BY:AS

MATERIAL DESCRIPTION

Description:

Classifications -

USCS: ML

AASHTO: A-4(0)

Nat. Moist. =

Sp.G. = 2.65

Liquid Limit = NV

Plasticity Index = NP

% > No.4 = 0.0 %

% < No.200 = 88.7 %

TEST RESULTS

Maximum dry density = 87.0 pcf

Optimum moisture = 15.5 %

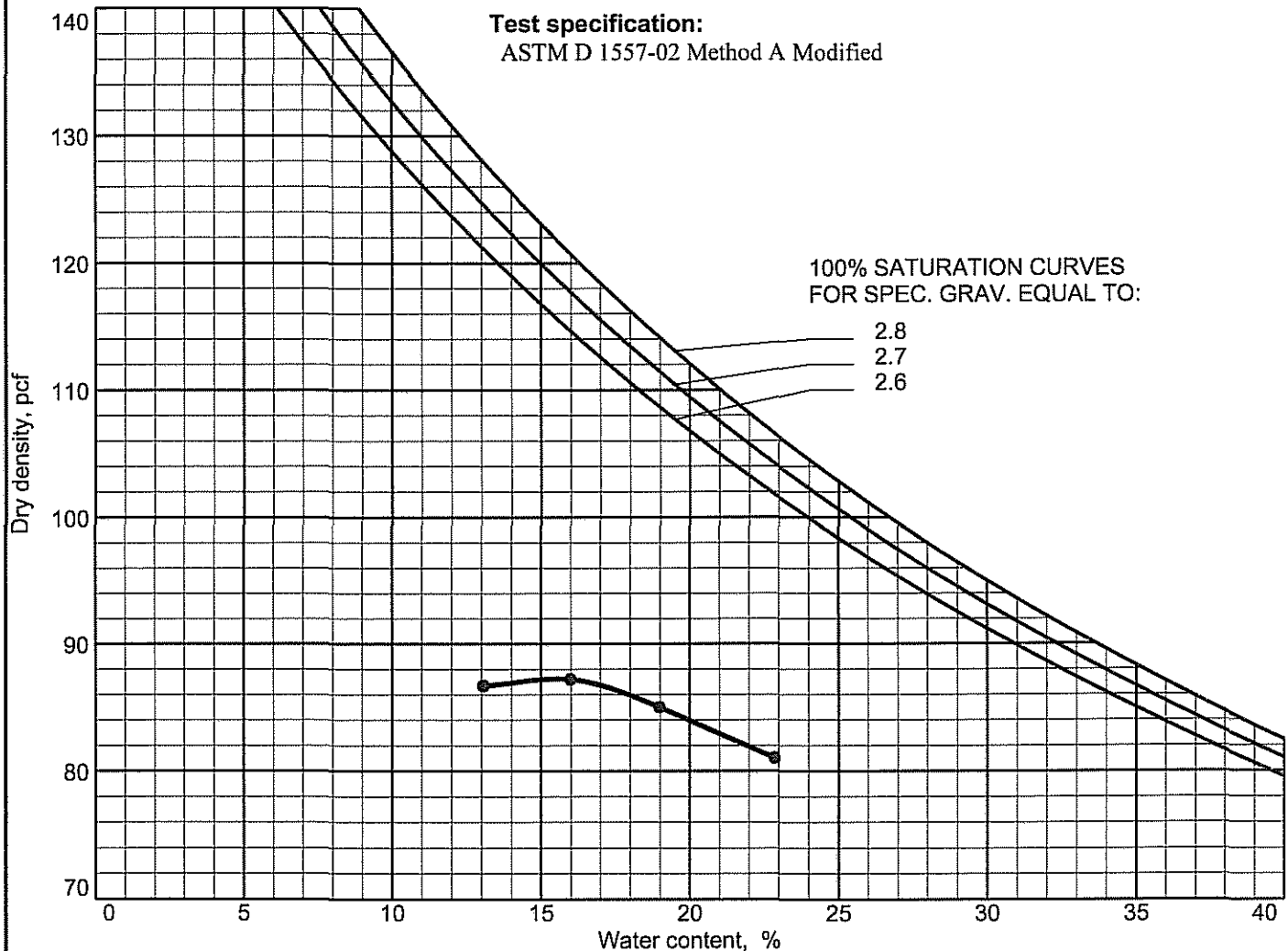


Figure 8670

COMPACTION TEST REPORT

Curve No.: 8670

Project No.: 20072247V1

Date: 09/23/07

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: TP-14

Elev./Depth:

Sample No. TP-14

Remarks: ENTERED BY:AS

MATERIAL DESCRIPTION

Description: SILTY SAND

Classifications -

USCS: SM

AASHTO: A-4(0)

Nat. Moist. =

Sp.G. = 2.65

Liquid Limit = NV

Plasticity Index = NP

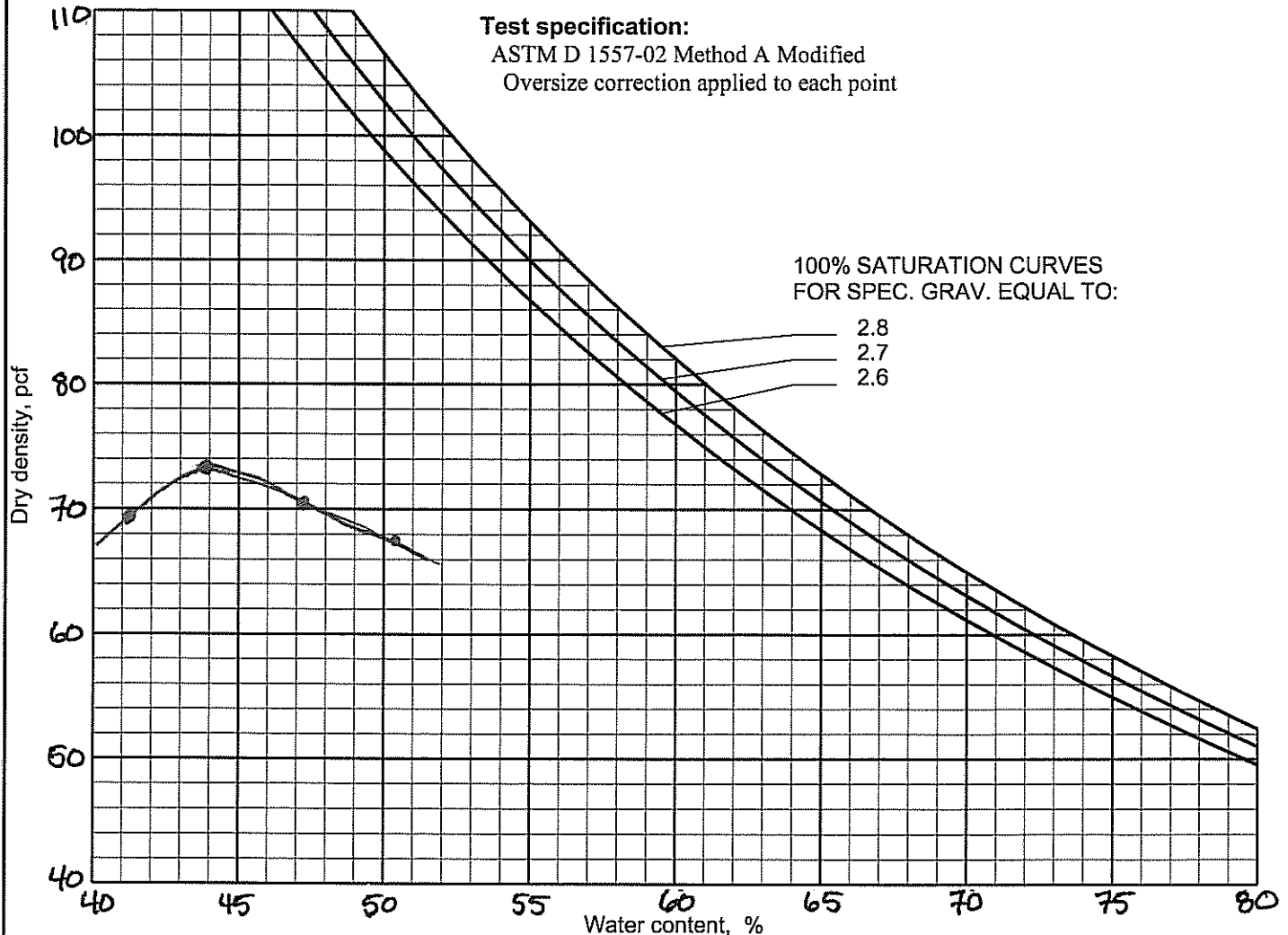
% > No.4 = 0.0 %

% < No.200 = 42.6 %

ROCK CORRECTED TEST RESULTS

Maximum dry density = 73.5 pcf

Optimum moisture = 44.0 %



COMPACTION TEST REPORT

Curve No.: 8670

Project No.: 20072247V1

Date: 09/26/07

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: TP-15

Elev./Depth:

Sample No. TP-15

Remarks: ENTERED BY:AS

MATERIAL DESCRIPTION

Description:

Classifications -

USCS: ML

AASHTO: A-4(0)

Nat. Moist. =

Sp.G. = 2.65

Liquid Limit = NV

Plasticity Index = NP

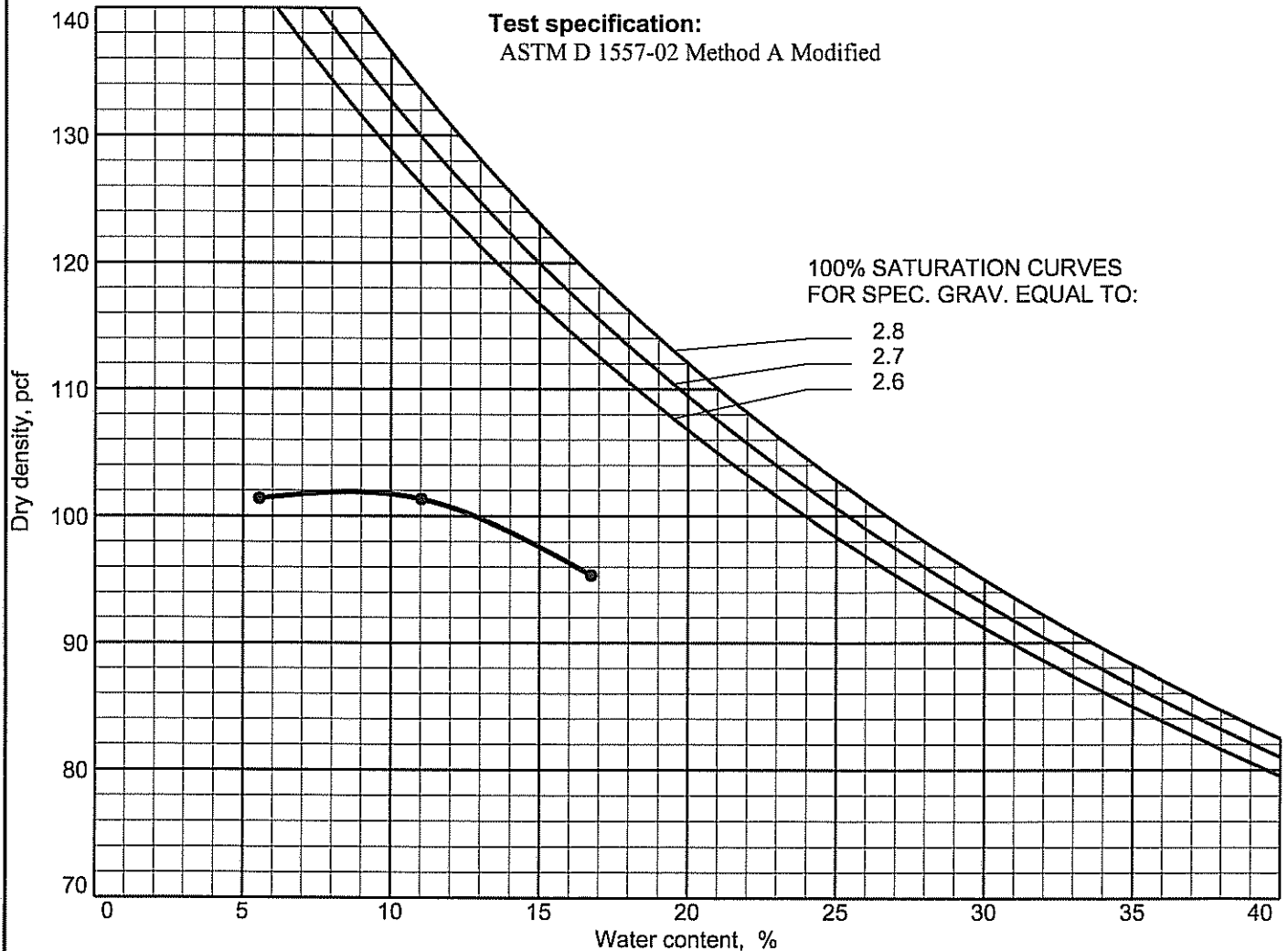
% > No.4 = 0 %

% < No.200 = 97.3 %

TEST RESULTS

Maximum dry density = 102.0 pcf

Optimum moisture = 8.5 %



COMPACTION TEST REPORT

Curve No.: 8670

Project No.: 20072247V1

Date: 09/28/07

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: TP-16

Elev./Depth:

Sample No. TP-16

Remarks: ENTERED BY:AS

MATERIAL DESCRIPTION

Description:

Classifications -

USCS: ML

AASHTO: A-4(0)

Nat. Moist. =

Sp.G. = 2.65

Liquid Limit = NV

Plasticity Index = NP

% > No.4 = 0.0 %

% < No.200 = 91.7 %

ROCK CORRECTED TEST RESULTS

Maximum dry density = 83.0 pcf

Optimum moisture = 21.0 %

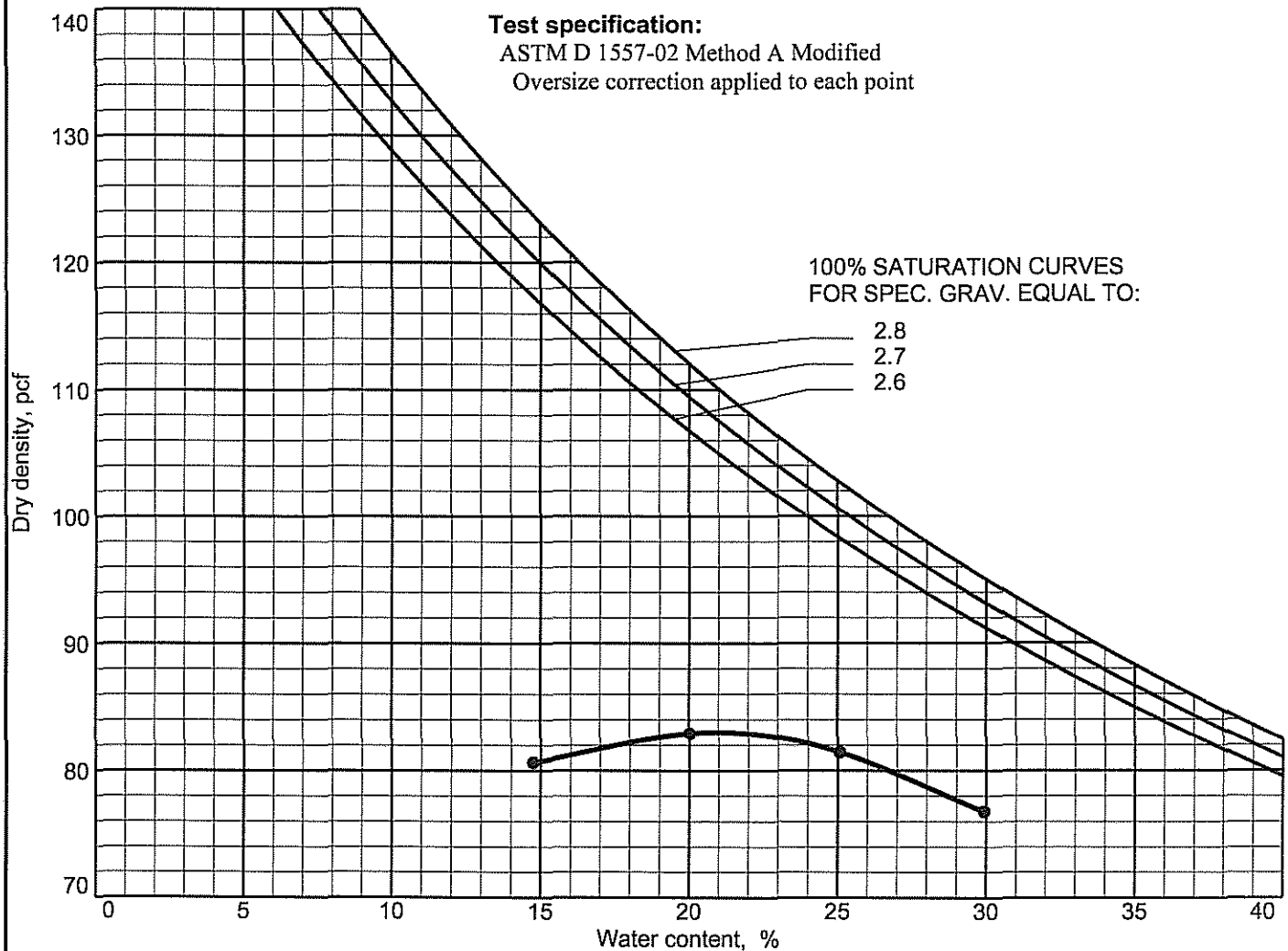


Figure 8670

COMPACTION TEST REPORT

Curve No.: 8670

Project No.: 20072247V1

Date: 09/26/07

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: UA-7

Elev./Depth:

Sample No. UA-7

Remarks: ENTERED BY:AS

MATERIAL DESCRIPTION

Description:

Classifications -

USCS: SM

AASHTO: A-1-b

Nat. Moist. =

Sp.G. = 2.65

Liquid Limit = NV

Plasticity Index = NP

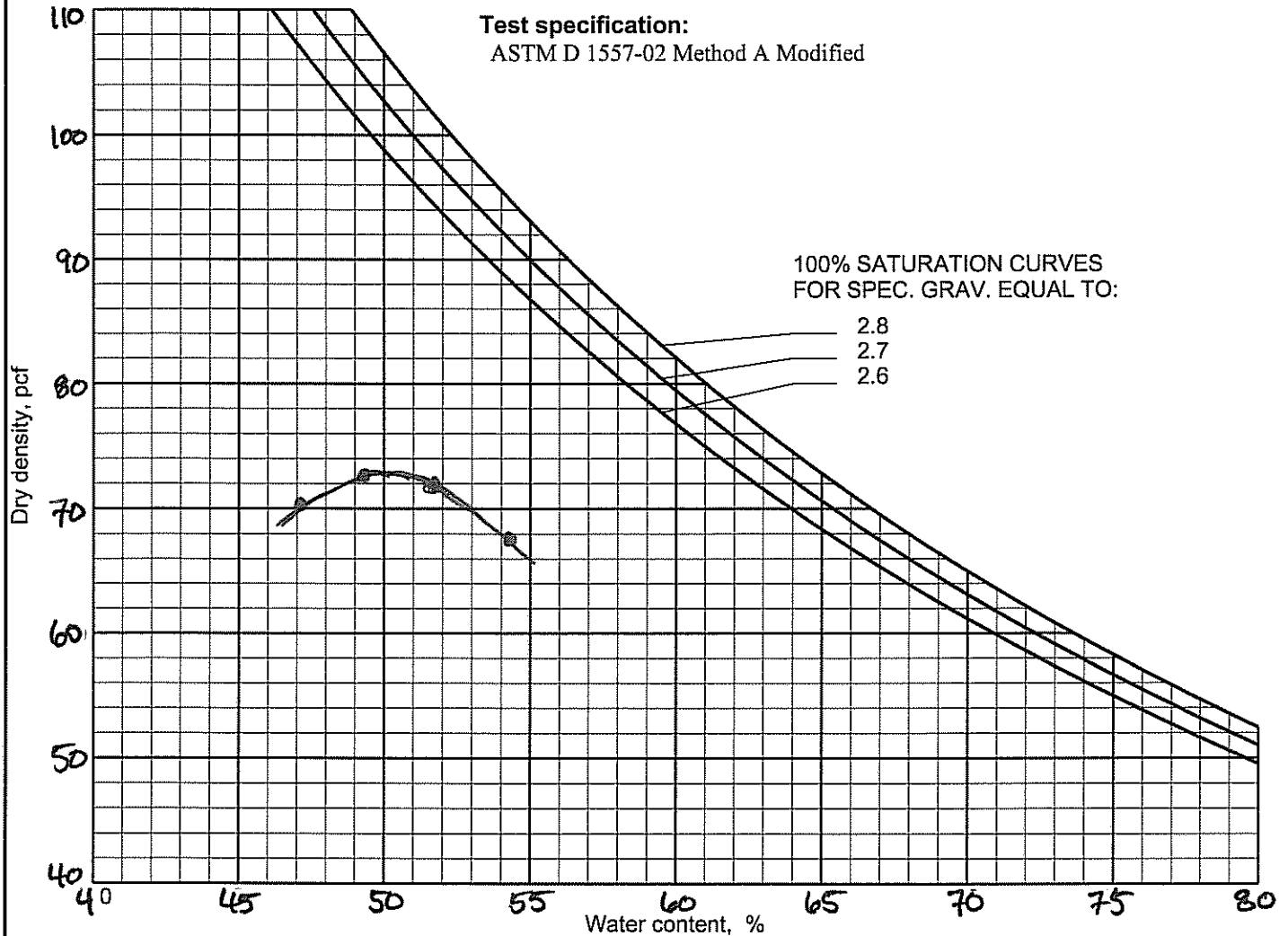
% > No.4 = 0.0 %

% < No.200 = 19.2 %

TEST RESULTS

Maximum dry density = 71.5 pcf

Optimum moisture = 49.5 %



COMPACTION TEST REPORT

Curve No.: 8670

Project No.: 20072247V1

Date: 09/24/07

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: UA-9

Elev./Depth:

Sample No. UA-9

Remarks: ENTERED BY:AS

MATERIAL DESCRIPTION

Description: SANDY SILT

Classifications -

USCS: ML

AASHTO: A-4(0)

Nat. Moist. =

Sp.G. = 2.65

Liquid Limit = NV

Plasticity Index = NP

% > No.4 = 0.0 %

% < No.200 = 58.3 %

ROCK CORRECTED TEST RESULTS

Maximum dry density = 70.5 pcf

Optimum moisture = 47.0 %

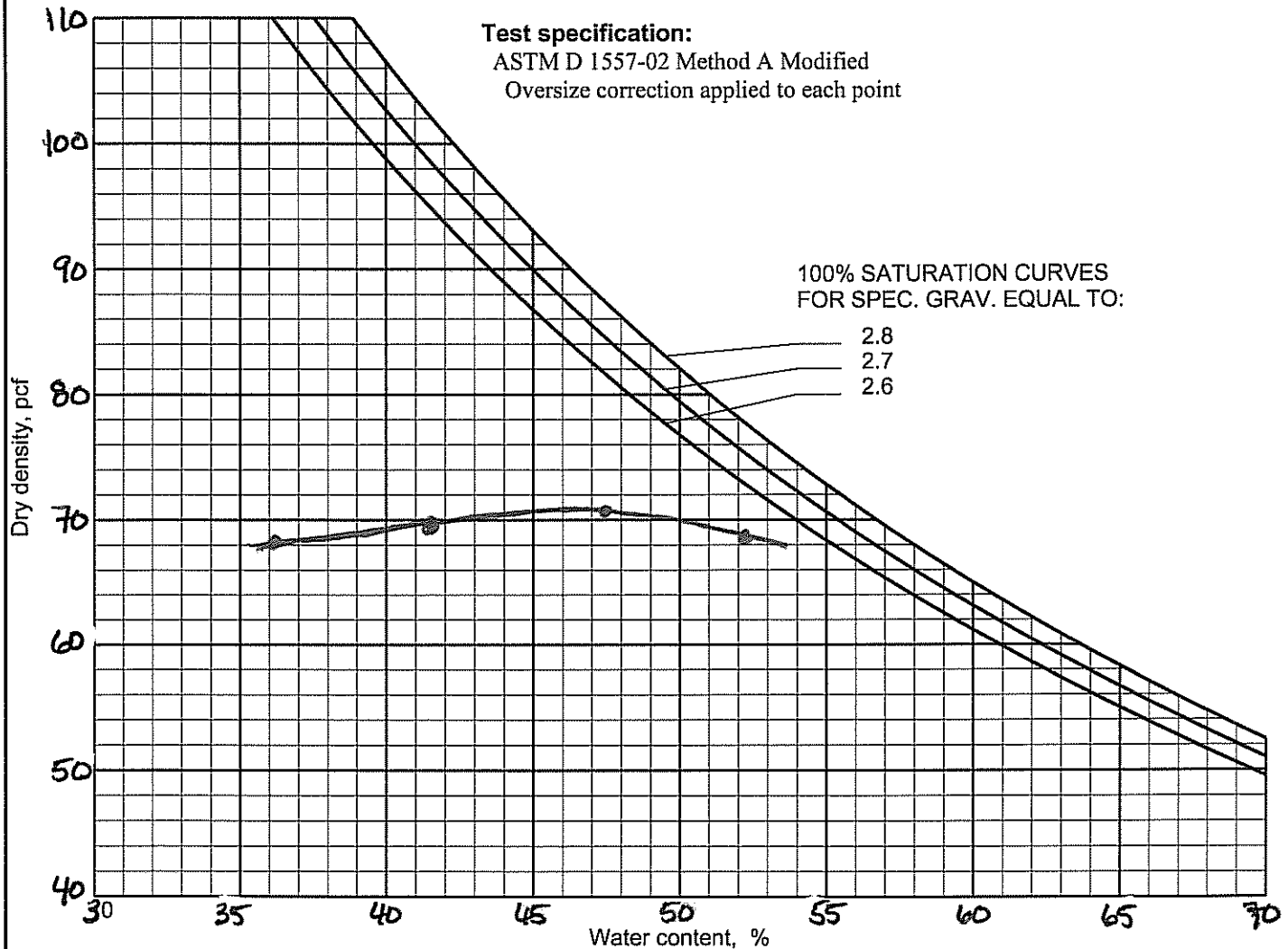


Figure 8670

COMPACTION TEST REPORT

Curve No.: 8670

Project No.: 20072247V1

Date: 09/23/07

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: UB-9

Elev./Depth:

Sample No. UB-9

Remarks: ENTERED BY:AS

MATERIAL DESCRIPTION

Description:

Classifications -

USCS: ML

AASHTO: A-4(0)

Nat. Moist. =

Sp.G. = 2.65

Liquid Limit = NV

Plasticity Index = NP

% > No.4 = %

% < No.200 = 72.9 %

ROCK CORRECTED TEST RESULTS

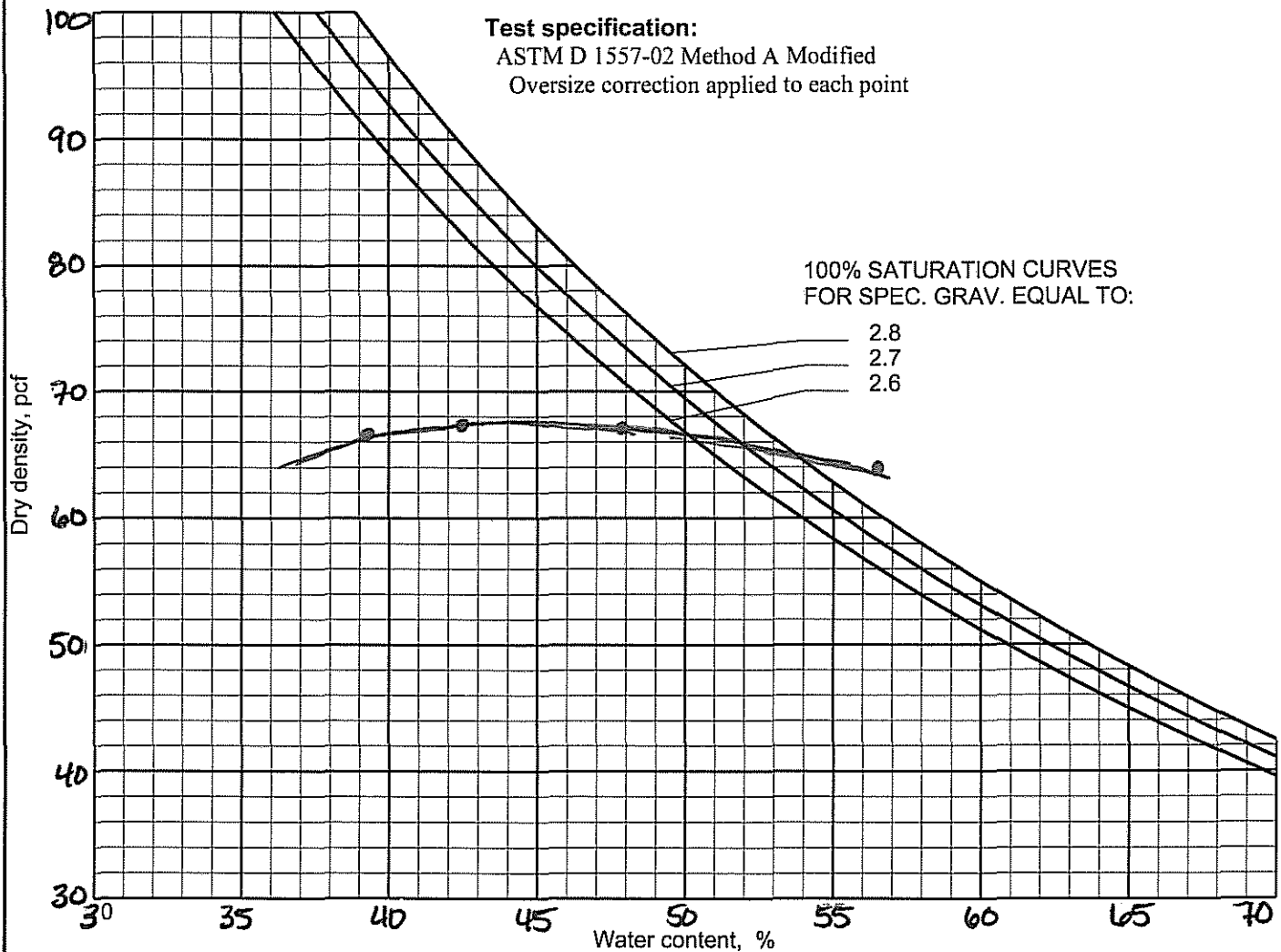
Maximum dry density = 67.5 pcf

Optimum moisture = 44.5 %

Test specification:

ASTM D 1557-02 Method A Modified

Oversize correction applied to each point



COMPACTION TEST REPORT

Curve No.: 8670

Project No.: 20072247V1

Date: 9/25/07

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: UC-6

Elev./Depth:

Sample No. UC-6

Remarks: ENTERED BY:BLW

MATERIAL DESCRIPTION

Description:

Classifications -

USCS: SM

AASHTO: A-4(0)

Nat. Moist. =

Sp.G. = 2.50

Liquid Limit = NV

Plasticity Index = NP

% > No.4 = %

% < No.200 = 48.6 %

TEST RESULTS

Maximum dry density = 77.5 pcf

Optimum moisture = 37.5 %

Test specification:
ASTM D 1557-02 Method A Modified

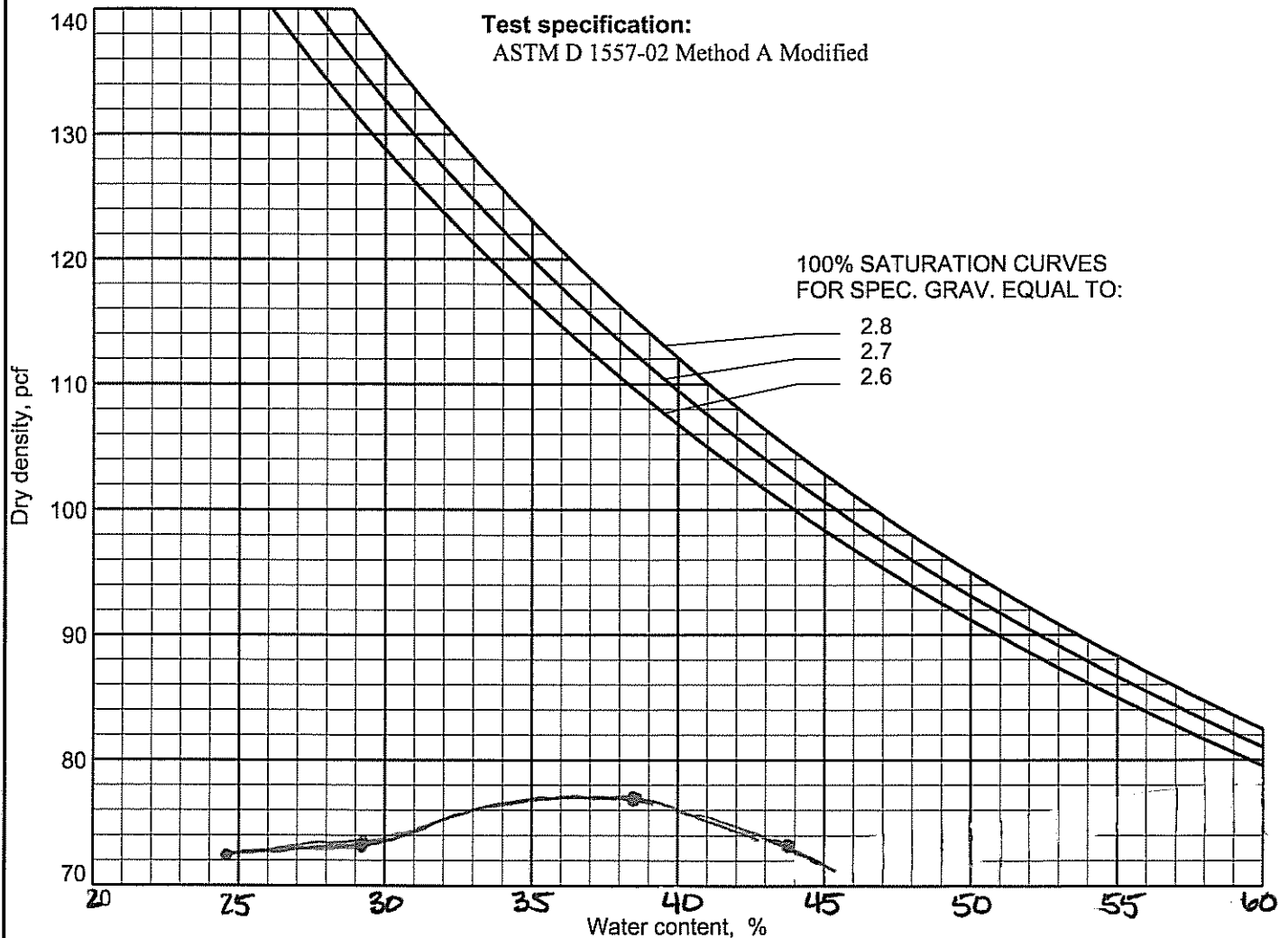


Figure 8670

COMPACTION TEST REPORT

Curve No.: 8670

Project No.: 20072247V1

Date:

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: UD-5

Elev./Depth:

Sample No. UD-5

Remarks:

MATERIAL DESCRIPTION

Description:

Classifications -

USCS: SW-SM

AASHTO: A-1-b

Nat. Moist. =

Sp.G. = 2.65

Liquid Limit = NV

Plasticity Index = NP

% > No.4 = 0.0 %

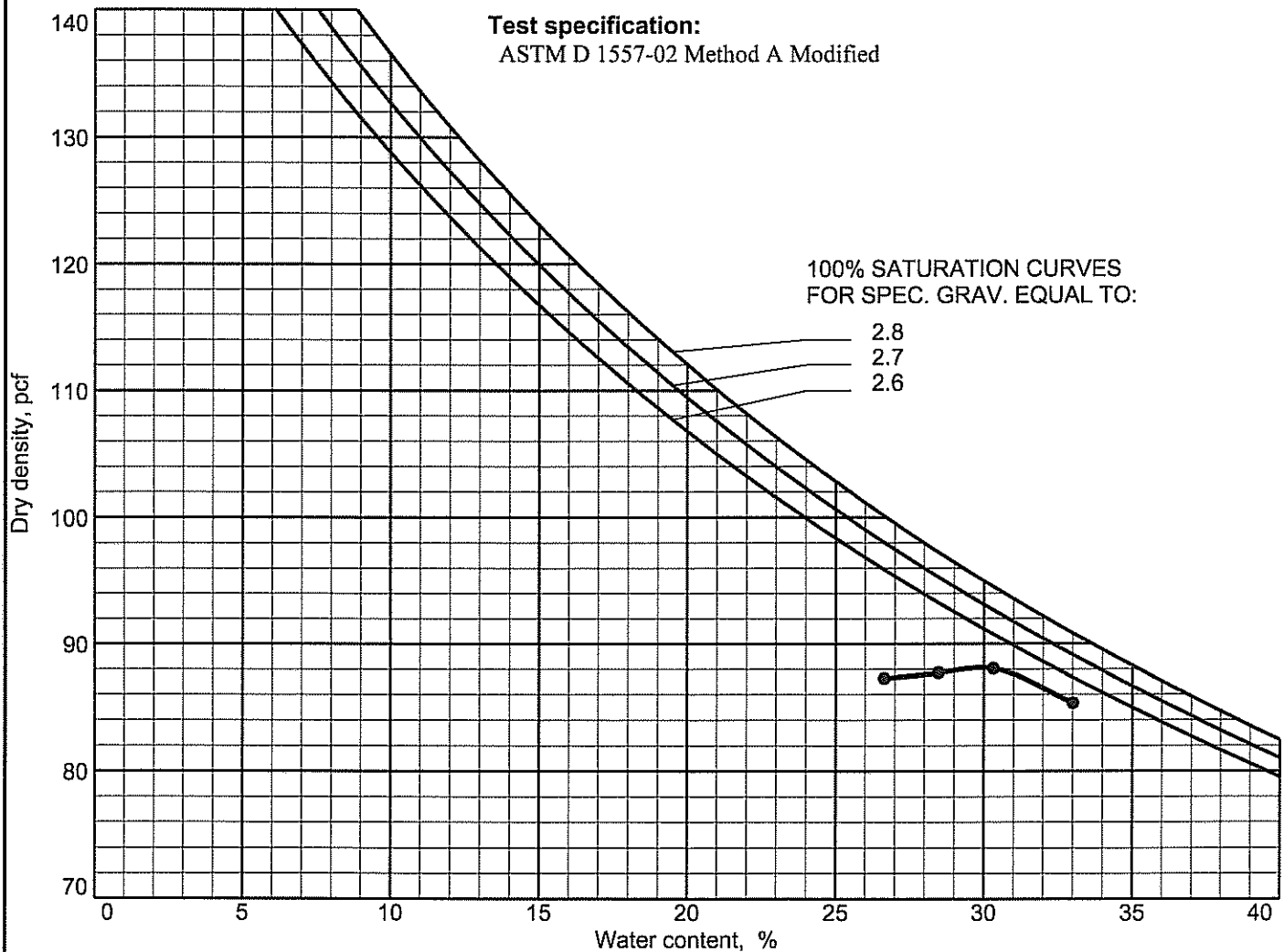
% < No.200 = 5.9 %

TEST RESULTS

Maximum dry density = 88.0 pcf

Optimum moisture = 30.0 %

Test specification:
ASTM D 1557-02 Method A Modified



COMPACTION TEST REPORT

Curve No.: 8670

Project No.: 20072247V1

Date: 9/25/07

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: UD-7

Elev./Depth:

Sample No. UD-7

Remarks: ENTERED BY:BLW

MATERIAL DESCRIPTION

Description:

Classifications -

USCS: SM

AASHTO: A-1-b

Nat. Moist. =

Sp.G. = 2.5

Liquid Limit = NV

Plasticity Index = NP

% > No.4 = %

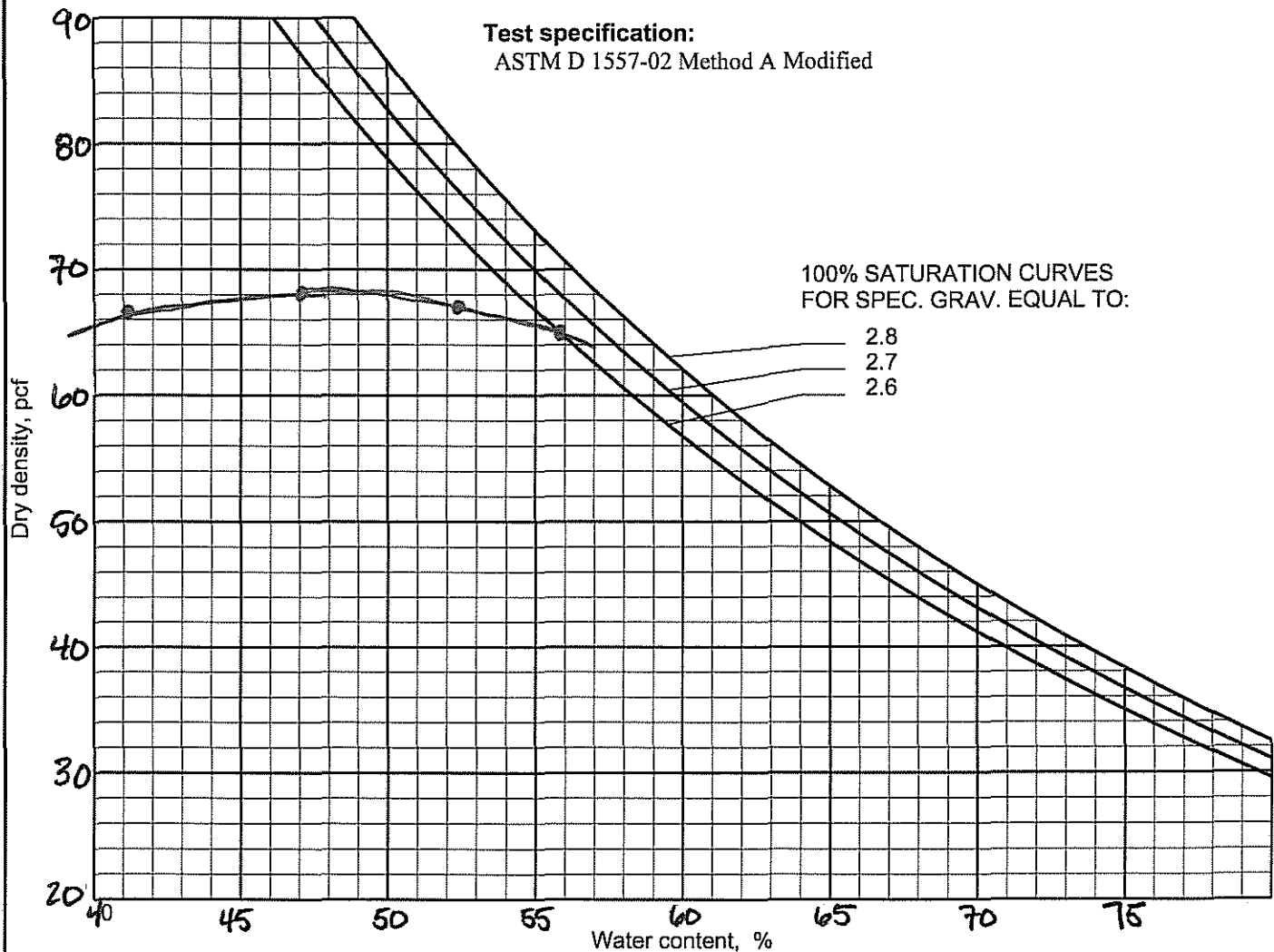
% < No.200 = 15.4 %

TEST RESULTS

Maximum dry density = 68.5 pcf

Optimum moisture = 49.0 %

Test specification:
ASTM D 1557-02 Method A Modified



COMPACTION TEST REPORT

Curve No.: 8670

Project No.: 20072247V1

Date: 09/21/07

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: UE-3

Elev./Depth:

Sample No. UE-3

Remarks: ENTERED BY:AS

MATERIAL DESCRIPTION

Description: SILTY SAND

Classifications -

USCS: SM

AASHTO: A-1-b

Nat. Moist. =

Sp.G. = 2.65

Liquid Limit = NV

Plasticity Index = NP

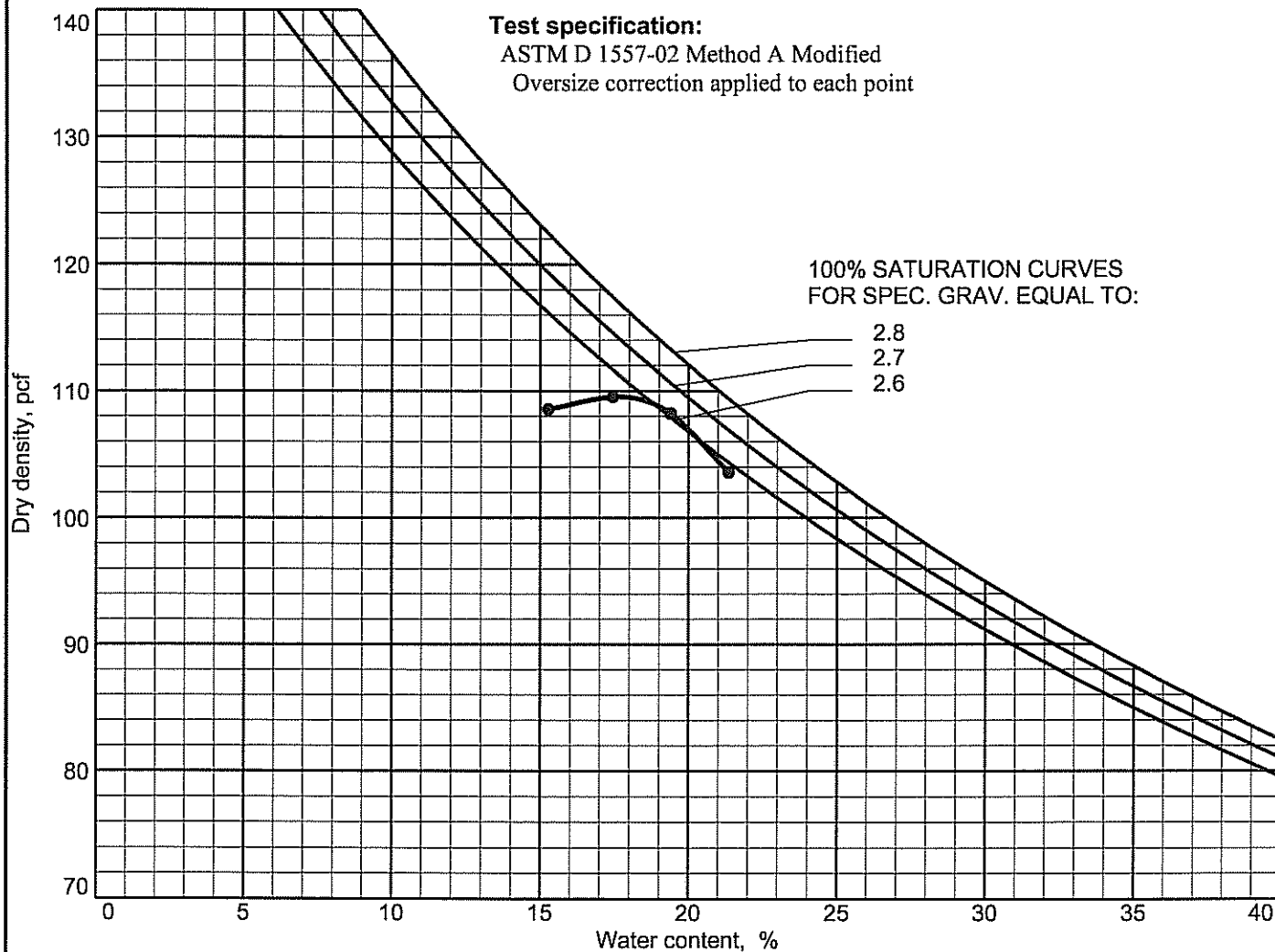
% > No.4 = 12.0 %

% < No.200 = 20 %

ROCK CORRECTED TEST RESULTS

Maximum dry density = 109.5 pcf

Optimum moisture = 17.5 %



COMPACTION TEST REPORT

Curve No.: 8670

Project No.: 20072247V1

Date: 8670

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: UE-5

Elev./Depth:

Sample No. UE-5

Remarks: ENTERED BY:AS

MATERIAL DESCRIPTION

Description:

Classifications -

USCS: SM

AASHTO: A-1-b

Nat. Moist. =

Sp.G. = 2.65

Liquid Limit = NV

Plasticity Index = NP

% > No.4 = 0.0 %

% < No.200 = 14.5 %

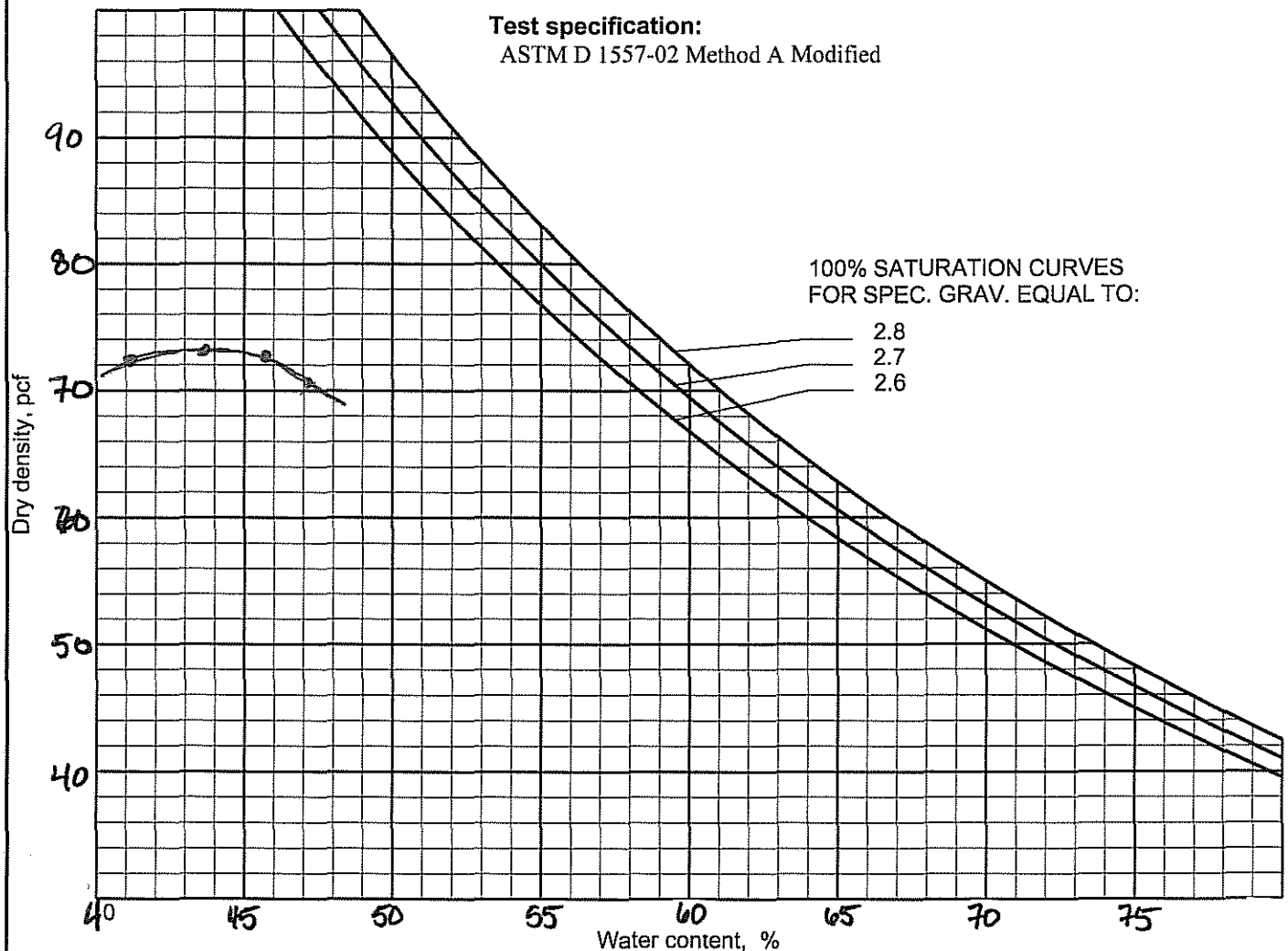
TEST RESULTS

Maximum dry density = 73.0 pcf

Optimum moisture = 44.5 %

Test specification:

ASTM D 1557-02 Method A Modified



COMPACTION TEST REPORT

Curve No.: 8670

Project No.: 20072247V1

Date: 09/21/07

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: UF-2

Elev./Depth:

Sample No. UF-2

Remarks: ENTERED BY:AS

MATERIAL DESCRIPTION

Description: SILTY SAND

Classifications -

USCS: SM

AASHTO: A-2-4(0)

Nat. Moist. =

Sp.G. = 2.65

Liquid Limit = NV

Plasticity Index = NP

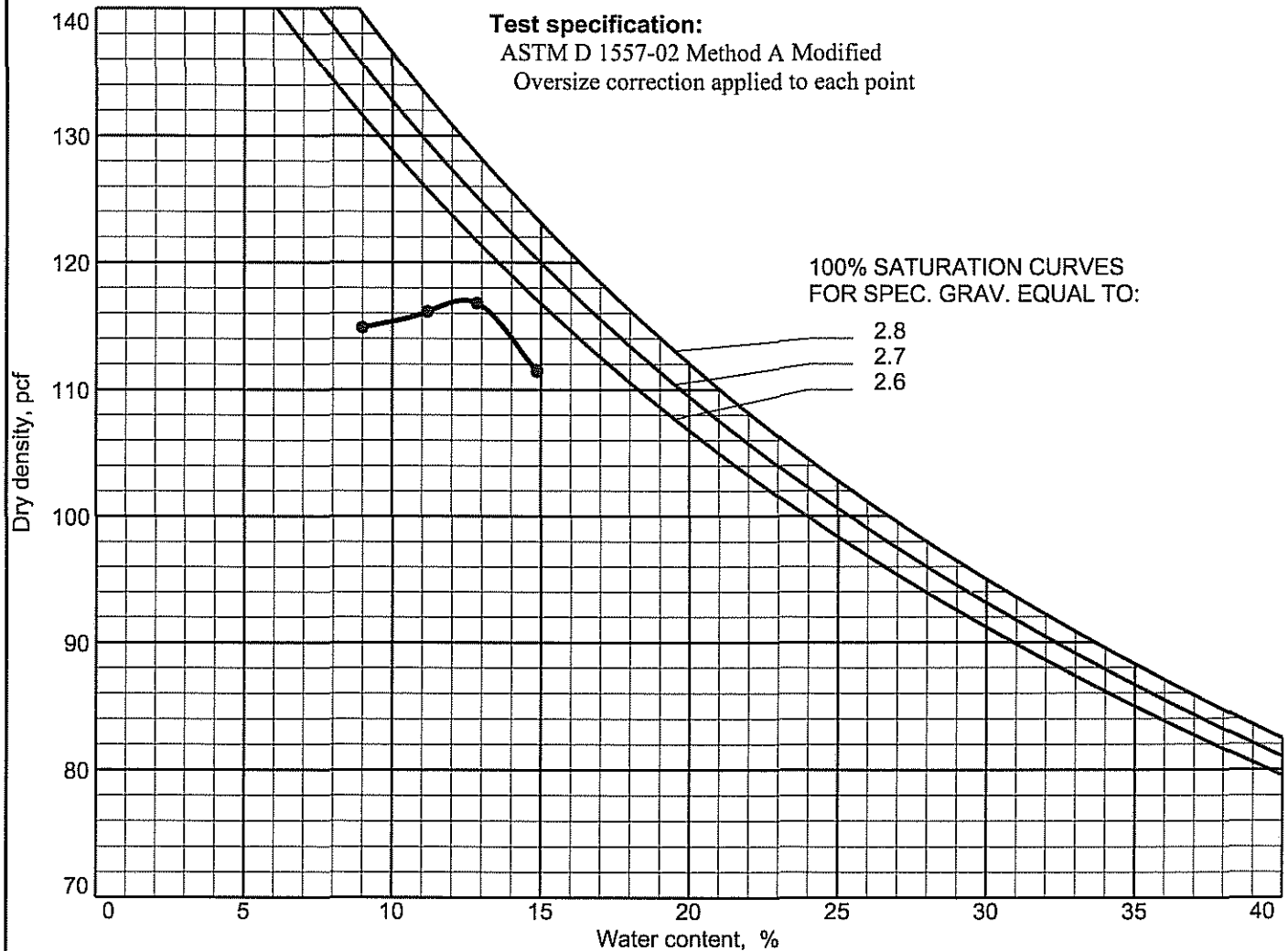
% > No.4 = 12.0 %

% < No.200 = 23.0 %

ROCK CORRECTED TEST RESULTS

Maximum dry density = 117.0 pcf

Optimum moisture = 12.5 %



COMPACTION TEST REPORT

Curve No.: 8670

Project No.: 20072247V1

Date: 9/25/07

Project: BRC EAST SIDE GEOTECH SAMPLING

Location: UF-6

Elev./Depth:

Sample No. UF-6

Remarks: ENTERED BY:BLW

MATERIAL DESCRIPTION

Description:

Classifications -

USCS: SM

AASHTO: A-1-b

Nat. Moist. =

Sp.G. = 2.30

Liquid Limit = NV

Plasticity Index = NP

% > No.4 = %

% < No.200 = 15.6 %

TEST RESULTS

Maximum dry density = 69.0 pcf

Optimum moisture = 45.5 %

Test specification:

ASTM D 1557-02 Method A Modified

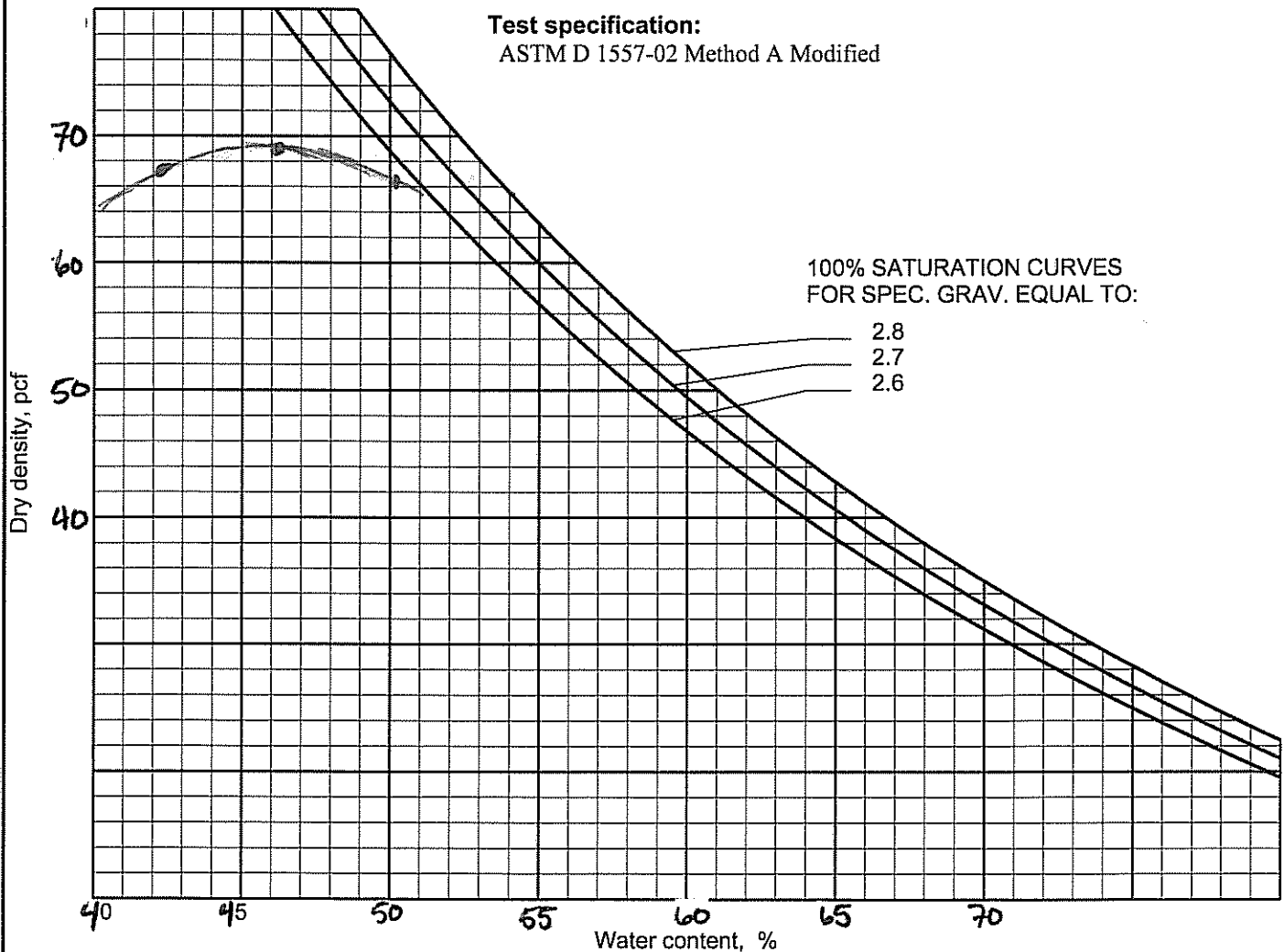


Figure 8670