

ASTM D 2166 Unconfined Compressive Strength

TERATEST LABS, INC.
Premier Geotechnical Testing

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May 15, 1999.

G.M. Boston Company
412 Fullerton
Newport Beach, CA 92663

Attention: Craig Hoad

Subject: Report/Laboratory Testing Results
Project Name: Petaluma / Paul Paddock
Project No.: N/A
TERATEST No.: 997026-001

Dear Mr. Hoad:

Enclosed please find laboratory testing results for the soil sample containing PX-300 soil stabilizer from the Petaluma / Paul Paddock project. The analysis performed on the sample from the above project was conducted in essential accordance with the standard testing procedure listed below.

<u>TYPE OF TEST</u>	<u>TEST PROCEDURE</u>
Unconfined Compressive Strength of Cohesive Soil	ASTM D 2166

Test results are presented in the attached Data Sheets.

ASTM: American Society for Testing and Materials, Annual Book of ASTM Standards, Section 4 Construction, Volume 04.08 & 4.09 Soil and Rock (I & II), 1998.

Thank you for selecting Teratest Labs, Inc. to provide laboratory testing services to G.M. Boston Company. Please feel free to contact us if you should have any questions concerning these results.

Very truly yours,

TERATEST LABS, INC.
Laboratory Testing Services

Lester Fruth

Lester Fruth, Ph.D.
Manager, Geotechnical Laboratory

Enclosures

UNCONFINED COMPRESSIVE STRENGTH
of COHESIVE SOIL
 (ASTM D 2166)

Project Name: Petaluma / Paul Paddock Tested by: RA Date: 05/12/99
 Project No: N/A Checked by: XF Date: 05/13/99
 Boring No.: N/A Depth (ft.) : N/A
 Sample No.: Petaluma Sample Type: Remold / Stabilized
 Sample Description: Black, very hard soil, stabilized with PX-300 soil stabilizer

Sample Wt. + Tube Wt. (gm)					<u>239.67</u>
Tube Wt. (gm)					<u>0.00</u>
Sample Wt. (gm)					<u>239.67</u>
Diameter (in)	<u>2.028</u>	<u>2.027</u>	<u>2.029</u>	Avg. =	<u>2.028</u>
Height (in)	<u>2.320</u>	<u>2.314</u>	<u>2.318</u>	Avg. =	<u>2.317</u>
Height : Diameter Ratio (2:1 required)					<u>1.143</u>

Area (in ²)	<u>3.230</u>	
Moisture Content (%)	<u>1.3</u>	
Wt. Wet Sample + Cont. (gm)	<u>313.17</u>	
Wt. Dry Sample + Cont. (gm)	<u>310.23</u>	
Wt. Container (gms)	<u>77.13</u>	
Density and Saturation		
Specific Gravity (assumed)	<u>2.70</u>	
Wet Density (pcf)	<u>122.0</u>	
Dry Density (pcf)	<u>120.5</u>	
Void Ratio	<u>0.399</u>	
Total Porosity	<u>0.285</u>	
Pore Volume (cc.)	<u>35.0</u>	
% Saturation	<u>9</u>	

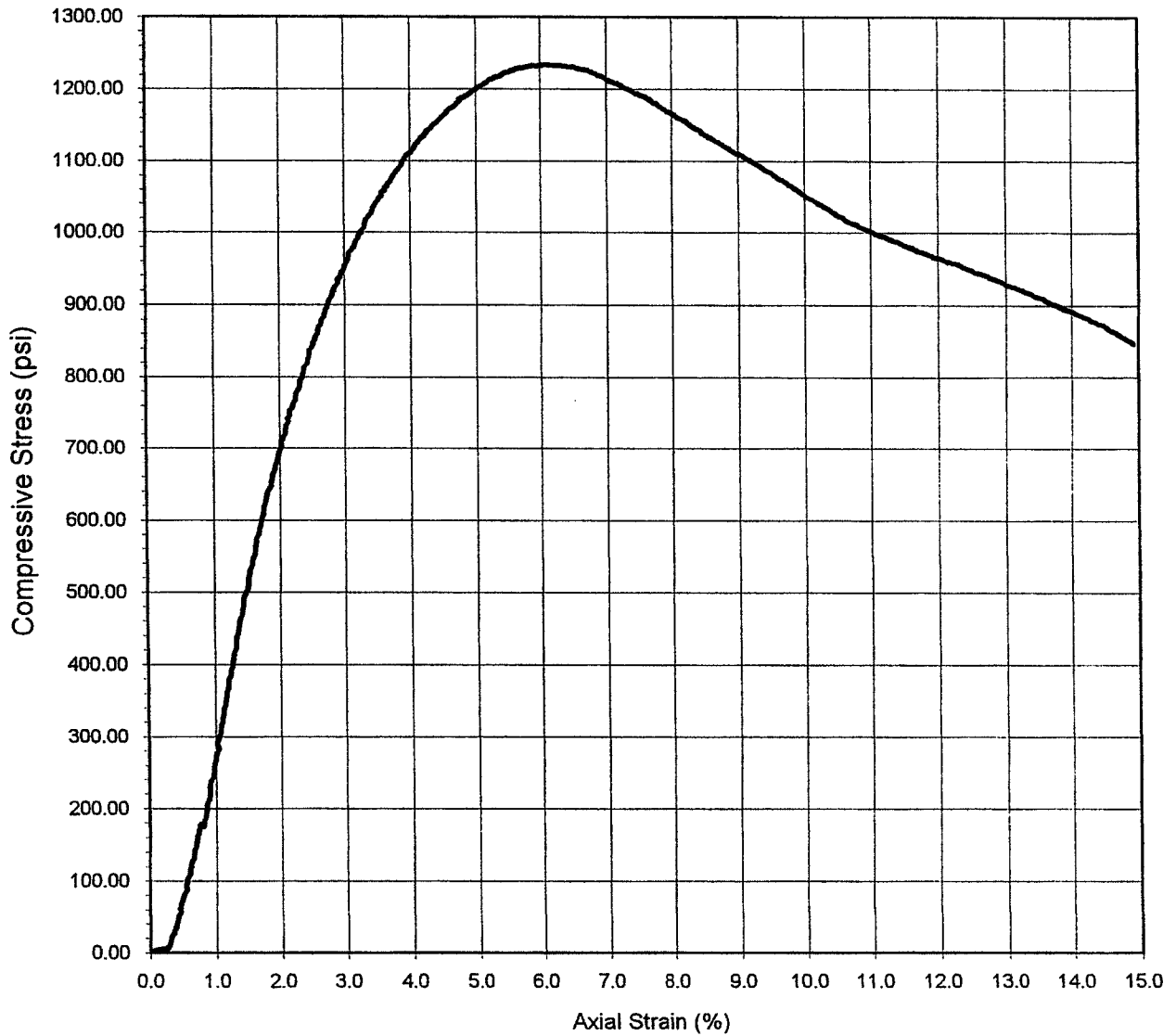
Failure Description :
 See Attached Photo

UNCONFINED STRESS ANALYSIS

Rate of Deformation (in/min)= 0.008

Failure Criterion:
 Condition at which maximum stress occurs

At Failure
 Max. Unconfined Compressive Stress (psi) = 1233.68
 Axial Strain (%) = 6.08



Boring No.	Sample No.	Depth (ft.)	Unconfined Compressive Strength (psi)	Strain at Failure (%)	Moisture Content (%)	Dry Density (pcf)	Average Diameter (in.)	Average Height (in.)	Degree of Saturation (%)	Deformation Rate (in/min)	Height / Diameter
N/A	Petaluma	N/A	1233.68	6.08	1.3	120.5	2.028	2.317	9	0.008	1.14

Sample Description:

Black, very hard soil,

stabilized with PX-300 soil stabilizer.



Project No: N/A
 Petaluma / Paul Paddock

UNCONFINED COMPRESSIVE
 STRENGTH of COHESIVE SOIL
 ASTM D 2166