



**TEXAS DEPARTMENT OF TRANSPORTATION
ATTERBERG LIMITS
Tex-104-E, Tex-105-E, Tex-106-E**

To: **Gulf States Materials, Inc.**
555 Sens Rd.
La Porte, Texas
 Attn: **Don Brandon P.E.**

Date: **12/1/2012**
 Report No.: **12-C-0452-0001** page 1 of 1
 Project: **Item 247 Material Acceptance Testing**

SAMPLE ID:	12-175	SAMPLED DATE:	10/9/2012
TEST NUMBER:	1	LETTING DATE:	N/A
SAMPLE STATUS:	Completed	CONTROLLING CSJ:	N/A
COUNTY:	Harris	SPEC YEAR:	2004
SAMPLED BY:	Jason Lay	SPEC ITEM:	247
SAMPLE LOCATION:	Gulf States Materials, Inc.	SPECIAL PROVISION:	247-033
MATERIAL CODE:	N/A	GRADE:	N/A
MATERIAL NAME:	Calcium Sulfate Base Material (GS-100)		
PRODUCER:	Gulf States Materials, Inc.		
AREA ENGINEER:	N/A	PROJECT MANAGER:	N/A

COURSE/LIFT:	N/A	STATION:	N/A	DIST. FROM CL:	N/A
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**Liquid Limit
Tex-104-E**

	Dish No.	Mass of Wet Sample + Tare (g)	Mass of Dry Sample + Tare (g)	Tare Mass (g)	Moisture Content (%)	Number of Blows	Liquid Limit (%)	
1								
2								
3								
4								
5								
							Liquid Limit	14*

**Plastic Limit
Tex-105-E**

	Dish No.	Mass of Wet Sample + Tare (g)	Mass of Dry Sample + Tare (g)	Tare Mass (g)	Mass of Water (g)	Plastic Limit (%)	
1	U9	7.4	6.56	1.24	0.84	16	
2	AN	7.39	6.55	1.21	0.84	16	
3							
4							
5							
						Plastic Limit	16

**Plasticity Index
Tex-106-E**

Plasticity Index:	2
Use Bar Linear Shrinkage to Calculate Plasticity Index?	Yes

Remarks:

Certification: SB101 Certification No.:281 *Material meets requirements for Grade 1 through 3, and 5 in Table 1 of Item 247-033.*
 * Liquid limited calculated through Plasticity Index value derived from Tex-107-E

Test Method:	Tested By:	Tested Date:
TX104	Mike Melendez	11/14/12
TX105	Mike Melendez	11/14/12
TX106	Mike Melendez	11/14/12

Test Stamp Code:	Omit Test:	Completed Date:	Time:

Locked By:	TxDOT:	District:	Area:
Authorized By:			

HTS, Inc. Consultants



Firm Reg. No. F-3478