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**Moisture Density Relationship Test Report**

**Customer:** Mr. Thomas N. Turk P.E.  
 Freeland Turk Engineering Group, LLC  
 172 Creekside Park Rd. Ste 115  
 Spring Branch, TX 78070

**Project:** Santa Clara and Wentz Road Reclamation Project

**Report Date:** April 5, 2023

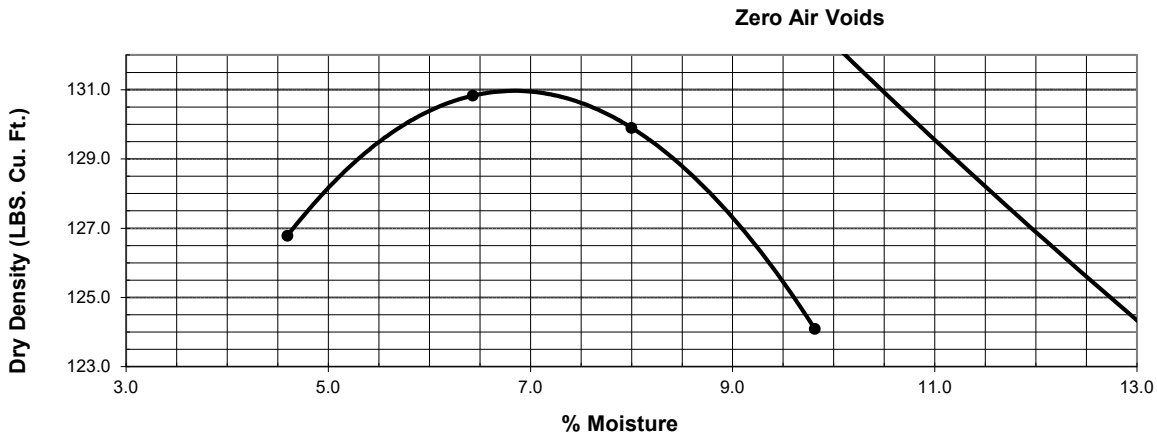
**Arias Report No.:** 2022-592-005

Soil Description: Lime Treated Clayey Gravel, dark brown	Test results for sample I.D.: 23-0412	
Material Origin: Wetz Rd. existing base	Maximum Dry Density (lb./ft <sup>3</sup> ): 130.9	
Date Sampled: March 30, 2023	Optimum Moisture Content (%): 6.8	<b>Specs</b>
Sampled By: Ryan Collier	Liquid Limit: 28	Max 40
Test Method: ASTM D698 Method C: Moist, Mechanical, ASTM D4318: Wet, Hand-rolled, Manual Liquid Limit, Metal Grooving Tool, ASTM C136, ASTM D4718	Plasticity Index: 3	Max 10
Application: Lime Treated Base	<u>Oversize Rock Correction</u>	
	Sieve Size: 3/4"	
	% Retained: 45	
	Estimated Specific Gravity: 2.7	

Comments: Sieve Analysis test results do not comply with TxDot Specifications for Grade 1 & 2

**SIEVE ANALYSIS**

<u>Sieve Size</u>	<u>(%) Passing</u>	<u>(%) Retained</u>	<u>Specifications TxDot Item 247.2</u> <u>Grade 1 &amp; 2</u>
2 1/2"	100	0	0
1 3/4"	100	0	0-10
7/8"	90	1	10-35
3/8"	71	29	30-65
No. 4	40	60	45-75
No.40	24	76	65-90



Respectfully Submitted,  
 Arias & Associates, Inc.  
 TBPE Registration No: F-32

Pete Neria  
 CoMET Project Manager  
 PN/so

cc: