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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

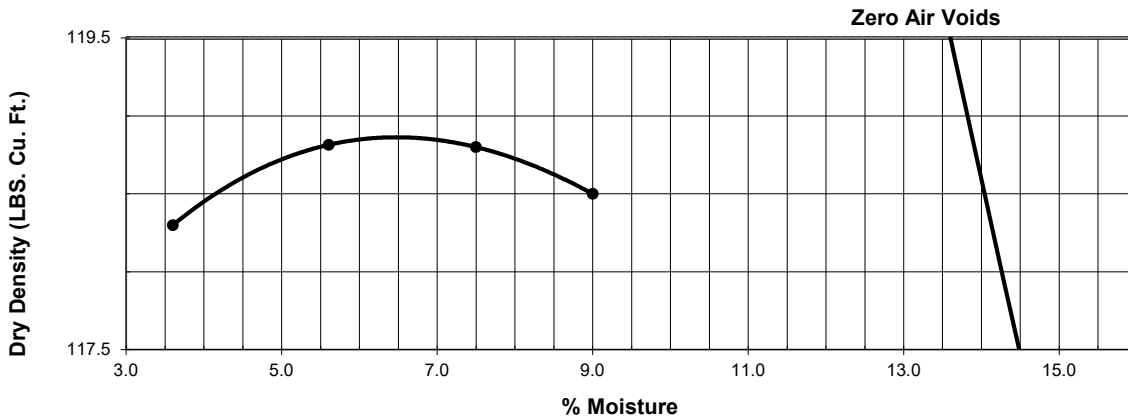
Arias Report No.: 2022-592-004

Soil Description: Lime Treated Clayey Gravel, dark brown	Test results for sample I.D.:	23-0411	
Material Origin: Wetz Rd. existing base	Maximum Dry Density (lb./ft ³):	118.8	
Date Sampled: March 30, 2023	Optimum Moisture Content (%):	6.5	Specs
Sampled By: Ryan Collier	Liquid Limit:	30	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:	2	Max 10
Application: Lime Treated Base	<u>Oversize Rock Correction</u>		
	Sieve Size:	3/4"	
	% Retained:	21	
	Estimated Specific Gravity:	2.6	

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 & 2</u>
2 1/2"	100	0	0
1 3/4"	100	0	0-10
7/8"	98	2	10-35
3/8"	67	33	30-65
No. 4	50	50	45-75
No.40	21	79	65-90



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

Pete Neria
 CoMET Project Manager
 PN/so

cc: