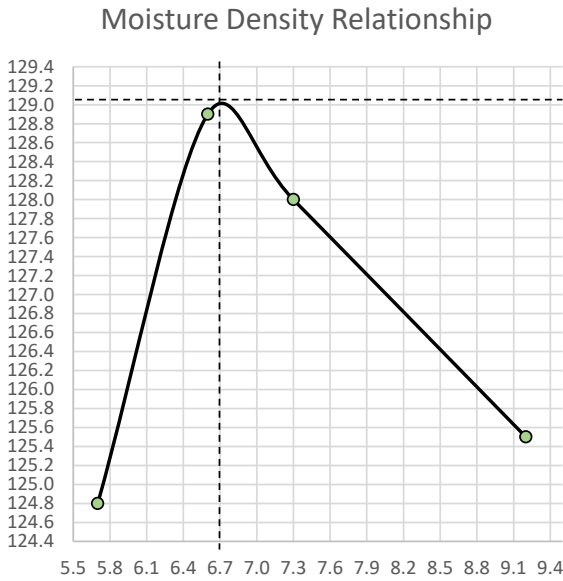




Client:
Attn:

Project Number:
Install Date: TBD

Project Name:		Date Sampled:	8/3/2023
Lab Technician:	Carlos Roybal	Sampled By:	LithTec™ (Melvin Roybal)
Material Description:	AB & Asphalt	Report Of:	Proctor & Strengths
Asphalt Thickness:	2-3"	Material Use Type:	Base
Material Source:	Road 10"	Date Tested:	10/12/2023



Sieve Analysis		
Sieve Size	Passing (%)	Retained (%)
1"	96	
3/4"	89	11
1/2"	67	
No.4	37	63
No.10	23	
No.40	16	
No.200	8.5	

Atterberg Limits	
Liquid Limit:	24
Plastic Limit:	14
Plasticity Index:	10

Soil Classification	
AASHTO:	A-2-4

Test Method Use	
Soil Sampling:	AASHTO R-90
Sieve Analysis:	AASHTO T11/T27
Atterberg Limits:	AASHTO T89/T90

ESG:	2.6	LithTec™ (%)		3	Moisture Density Relationship:	ASTM D 1557
MC (%)	5.7	6.6	7.3	9.2	California Bearing Ratio:	AASHTO T-193-13
DD (pcf)	124.8	128.9	128.0	125.5	Unconfined Compression Test:	AASHTO T-208-15
MDD (pcf)	129.1	Points on Graph:		4	Modulus Derivative:	AASHTO T 307-99
OMC (%)	6.7%	Method:		D	Moisture Conditioning:	AASHTO T-208-15

Untreated Compressive Strength				Industry Standards	
(%)	(psi)	(S@F)	(MR)	UCS	(S@F)
N/A	26.00	2.51%	2,512	250 (psi)	0.60%

Untreated California Bearing Ratio				UCS	(S@F)	MR	CBR	Swell(%)
	0.1"	0.2"	Swell (%)	250 (psi)	0.60%	100,000	70	0.50%
N/A	43.00	52.30	1.960%					

LithTec™ Compressive Strength				LithTec™ Minimum Required				
3%	571.02	0.93%	646,775	UCS	(S@F)	MR	CBR	Swell (%)
4%	673.90	1.10%	831,317	400 (psi)	0.80%	500,000 Equals .44 Coef.	150	0.15%
5%	777.83	0.87%	1,256,021					

LithTec™ California Bearing Ratio				400 (psi)	0.80%	500,000 Equals .44 Coef.	150	0.15%
	0.1"	0.2"	Swell (%)					
3%	327.60	388.70	0.00%					

The results shown in this report are for the exclusive use of the client for whom they were obtained and apply only to the samples tested.