

Berlogar Geotechnical Consultants

ASTM Laboratory Tests Summary Sheets

Project Name: Zanker Lab Testing	Project Number: 3137.800
Client: Zanker Quarry	Date Reported: 01/19/10
Attention: Matt Begin	Date Received: 01/14/10
Sample ID: Utility Sand Recycled	Invoice Number: 12026
Material Description: Silty Sand Gray	

Sieve Analysis ASTM C136 CTM 202

Resistance Value (R-Value) ASTM D2844 CTM 301

Sieve Size		Percent Passing	Specifications						
US	mm			A	B	C	D		
3"	75.0			Exudation Pressure, psi:					
2-1/2"	63.5			Corrected R-Value:					
2"	50.0			Moisture Content at Test, %:					
1-1/2"	37.5			Dry Density, pcf:					
1"	25.0			Expansion Pressure, psf:					
3/4"	19.0			R-Value at 300 psi:		Specification: 60			
1/2"	12.5			Expansion Pressure at 300 psi: psf					
3/8"	9.5	100		Plasticity Index ASTM D4318					
1/4"	6.3			Liquid Limit:		Specification			
#4	4.75	98		Plastic Limit:		Specification			
#8	2.36	91		Plasticity Index:		Specification			
#10	2.00			-40 Soil Classification:					
#16	1.18	63		Coarse and Fine Aggregate Quality Tests					
#30	0.600	40					Specifications		
#40	0.425			Cleanliness Value, CTM 227:					
#50	0.300	23		Sand Equivalency, ASTM D2217:			54		
#100	0.150	14		Coarse Durability Index, ASTM3744:					
#200	0.075	9.4		Fine Durability Index, ASTM3744:			35		
Dry Density Moisture Content Relationship				Sodium Soundness ASTM C88, % Loss:					
				LA Abrasion ASTM C131 500 Revs. % Loss:					
				LA Abrasion ASTM C131 100 Revs. % Loss:					
				LA Abrasion ASTM C131 Grading Used:					
Test Method		Optimum Moisture Content, %:	Maximum Dry Density, Pcf:	Specific Gravity ASTM C127, C128					
				Coarse		Fine			
Relative Compaction of Untreated Soils CTM 216				Bulk Specific Gravity, Oven Dried:					
				Bulk Specific Gravity, Saturated Surface:					
Moisture Content, %		Maximum Wet Density, g/cc:		Apparent Specific Gravity:					
				Absorption, %:					

Comments:

Reported By: Greg Suckow