

CMT ENGINEERING **LABORATORIES**

Geotechnical • Materials Testing • Special Inspections • Chemical Analysis

Bluffdale Pit

Natural Road-Base Proctor

Material: 1 ½” Natural State Spec UTBC

Location: Bluffdale Gravel Pit

Prepared for: Asphalt Materials Inc

Date Prepared: 5/21/2018



Density	Optimum Moisture
133.7	6.3%

May 21, 2018

Asphalt Materials
7961 S 1300 W
West Jordan, UT 84084

Summary of Test Results

Project: POM
Material: Natural- State Spec. UTBC

	<u>TARGET LETTER</u>	
<u>Sieve</u>	<u>% Passing</u>	<u>UDOT Specification</u>
1.5"	100	100
1.0"	96	90-100
3/4"	85	70-85
1/2"	78	65-80
3/8"	70	55-75
#4	52	40-65
#16	28	25-40
#200	10.0	7-11

Sincerely,



Susan Arnold

May 22, 2018

Asphalt Materials
 PO Box 5
 West Jordan UT 84084

LABORATORY COMPACTION
 CHARACTERISTICS OF SOIL
 Test Method: AASHTO T-180

Customer: Asphalt Materials
 Project: Asphalt Materials Testing
 Lab No.: 680447 Project No.: 6551
 Location: Not Specified
 Source: AMI POM Pit
 Description of Material: Natural State Spec Roadbase

Item: N/A

Date Tested: April 27, 2018

Compaction Method: D
 Oversize Rock Correction: Y

Rock Corrected Proctor Test Results

Maximum Dry Density: 133.7
 Optimum Moisture: 6.3

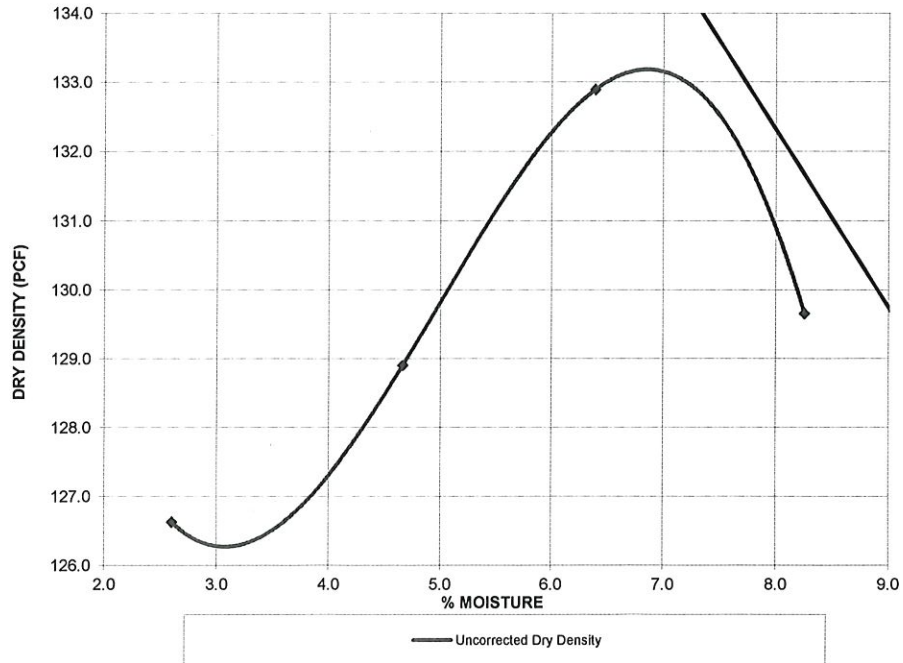
Specific Gravity: 2.239
 Specific Gravity Determination: Provided

Gradation Lab No.: 680408

Sieve Analysis:

Sieve	% Retained
+3/4"	8.3
+3/8"	
+#4	
-#4	
Total:	8.3

Method of Sample Preparation Used: Dry
 Type of Compaction Rammer Used: Automatic
 Type of Rammer Face: Sector Face



Sue Arnold - Laboratory Manager

Tested By: E. Vehar
 CMT Technician

May 5, 2018

Asphalt Materials
PO Box 5
West Jordan UT 84084

Project: Asphalt Materials Testing
Source: AMI POM Pit
Material: Natural State Spec Roadbase
Date: April 27, 2018

Summary of Test Results

Moisture Density AASHTO T-180

Lab # 680447
Maximum Density = 133.7 pcf
Optimum Moisture = 6.3%

Los Angeles Abrasion AASHTO T-96

Lab # 682606
% Wear = 30% 50% Max.

Bulk Density and Voids in Aggregates AASHTO T-19

Lab # 681134
Density of aggregate = 119.8 pcf > 75 pcf

Fracture Face in Coarse Aggregate AASHTO T-335

Lab # 606743
Two or More = 93.0% 50% Min.

Liquid Limit, Plastic Index AASHTO T-89 / T-90

Lab # 681649
Plastic Index = Non-Plastic Non-Plastic

California Bearing Ratio AASHTO T-193

Lab # 680445
CBR Value @ 0.1" = 82%
CBR Value @ 0.2" = 122% 70% min

Sand Equivalent AASHTO T-176

Lab # 682604
Average Sand Equivalent = 37%

Sincerely,



Susan Arnold