



# GENEVA ROCK PRODUCTS, INC.

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## AGGREGATE SUBMITTAL Report of Physical Properties

GRP Material Description: Roadbase, 1 1/2" UDOT

Report Date: April 10, 2026

GRP Material Code: GRAD

Reviewed by: Dan McDaniel

Source Location/Code: Perry / 590

Report No. 590GRAD00226

| TEST RESULTS                    |                                           |                                                                                                           |              |                 |
|---------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------|-----------------|
| Standard                        | PHYSICAL PROPERTIES                       |                                                                                                           | Result       | Test Source     |
| ASTM C 29<br>AASHTO T19         | Unit Weight                               | Unit Weight, lbs./cu.ft. =                                                                                | 123.0        |                 |
|                                 | Weight                                    | Voids, % =                                                                                                | 26           |                 |
|                                 |                                           | <input type="checkbox"/> Jigged <input type="checkbox"/> Loose <input checked="" type="checkbox"/> Rodded |              |                 |
| ASTM D1557<br>AASHTO T180       | Modified Proctor                          | Max. density, lbs./cu.ft. =                                                                               | 140.2        |                 |
|                                 |                                           | Optimum Moisture, % =                                                                                     | 5.1          |                 |
| ASTM D698<br>AASHTO T99         | Standard Proctor                          | Max. density, lbs./cu.ft. =                                                                               | 136.7        |                 |
|                                 |                                           | Optimum Moisture, % =                                                                                     | 5.8          |                 |
| ASTM D4318<br>AASHTO T89/90     | Liquid Limit                              | Liquid Limit=                                                                                             | 0            |                 |
|                                 | Plastic Limit                             | Plastic Limit=                                                                                            | 0            |                 |
|                                 | Plasticity Index                          | Plasticity Index=                                                                                         | NP           |                 |
| ASTM C131<br>AASHTO T96         | L.A. Abrasion                             | Small Coarse Loss, % =                                                                                    | 26           |                 |
|                                 |                                           | Grading/Revolutions, =                                                                                    | B/500        |                 |
| ASTM C535                       | L.A. Abrasion                             | Large Coarse Loss, % =                                                                                    |              |                 |
|                                 |                                           | Grading/Revolutions, =                                                                                    |              |                 |
| ASTM C 128<br>AASHTO T84        | Fine Specific Gravity & Absorption        | Bulk Specific Gravity (dry) =                                                                             |              |                 |
|                                 |                                           | Bulk Specific Gravity, SSD =                                                                              |              |                 |
|                                 |                                           | Apparent Specific Gravity =                                                                               |              |                 |
|                                 |                                           | Absorption, % =                                                                                           |              |                 |
| ASTM C 127/128<br>AASHTO T85/84 | Coarse/Fine Specific Gravity & Absorption | Bulk Specific Gravity (dry) =                                                                             | 2.616        |                 |
|                                 |                                           | Bulk Specific Gravity, SSD =                                                                              | 2.644        |                 |
|                                 |                                           | Apparent Specific Gravity =                                                                               | 2.690        |                 |
|                                 |                                           | Absorption, % =                                                                                           | 1.1          |                 |
| ASTM D2419<br>AASHTO T176       | Sand Equivalent                           | Sand Equivalent, % =                                                                                      | 31           |                 |
| ASTM C 88<br>AASHTO T104        | Soundness                                 | Coarse Soundness Loss, % =                                                                                |              |                 |
|                                 |                                           | Magnesium No. of Cycles =                                                                                 |              |                 |
|                                 | Soundness                                 | Fine Soundness Loss, % =                                                                                  |              |                 |
|                                 |                                           | Magnesium No. of Cycles =                                                                                 |              |                 |
| ASTM C 1252<br>AASHTO T304      | Fine Aggregate Angularity                 | Uncompacted Voids, % =                                                                                    |              |                 |
|                                 |                                           | Method C (as received material)                                                                           |              |                 |
| ASTM C40<br>AASHTO T21          | Organic Impurities                        | Coarse Aggregate, % =                                                                                     |              |                 |
|                                 |                                           | Fine Aggregate, % =                                                                                       |              |                 |
| ASTM C142<br>AASHTO T112        | Clay / Friable Particles                  | Coarse Aggregate, % =                                                                                     |              |                 |
|                                 |                                           | Fine Aggregate, % =                                                                                       |              |                 |
| ASTM C123<br>AASHTO T113        | Lightweight Pieces                        | Coarse Aggregate, % =                                                                                     |              |                 |
|                                 |                                           | Fine Aggregate, % =                                                                                       |              |                 |
| ASTM D1883<br>AASHTO T193       | CBR                                       | Surcharge = 10 lbs CBR @ 0.1"=                                                                            | 78           |                 |
|                                 |                                           | Swell% = 0.0% CBR @ 0.2"=                                                                                 | 103          |                 |
| ASTM D5821                      | Fractured Face                            | 1 or 2 Faces =                                                                                            | 1            | 69              |
|                                 |                                           | Fractured Face, % =                                                                                       | 2            | 54              |
| AASHTO T-289                    | pH of Soils                               | 8.5                                                                                                       | AASHTO T-236 | Direct Shear    |
| AASHTO T 291                    | Chlorides                                 | 42.1ppm                                                                                                   | AASHTO T-267 | Organic Content |
| AASHTO T-288                    | Resistivity                               | 10170 Ohm*cm                                                                                              | AASHTO T-88  | Hydrometer      |
| AASHTO T-290                    | Sulfates                                  |                                                                                                           |              |                 |

| SIEVE ANALYSIS            |            |       |
|---------------------------|------------|-------|
| ASTM C136                 | AASHTO T27 |       |
| Sieve Size                | % Passing  | Spec. |
| 450 mm (18")              |            |       |
| 375 mm (15")              |            |       |
| 300 mm (12")              |            |       |
| 250 mm (10")              |            |       |
| 225 mm (9")               |            |       |
| 200 mm (8")               |            |       |
| 150 mm (6")               |            |       |
| 125 mm (5")               |            |       |
| 100 mm (4")               |            |       |
| 75.0 mm (3")              |            |       |
| 63.0 mm (2-1/2")          |            |       |
| 50.0 mm (2")              |            |       |
| 37.5 mm (1-1/2")          | 100        |       |
| 25.0 mm (1")              | 91         |       |
| 19.0 mm (3/4")            | 85         |       |
| 12.5 mm (1/2")            | 75         |       |
| 9.5 mm (3/8")             | 70         |       |
| 6.3 mm (1/4")             |            |       |
| 4.75 mm (No.4)            | 59         |       |
| 2.36 mm (No.8)            | 43         |       |
| 2.00 mm (No.10)           | 40         |       |
| 1.18 mm (No.16)           | 32         |       |
| 0.600 mm (No.30)          | 28         |       |
| 0.425 mm (No.40)          | 23         |       |
| 0.300 mm (No.50)          | 20         |       |
| 0.180 mm (No.80)          |            |       |
| 0.150 mm (No.100)         | 10         |       |
| 0.075 mm (No.200)         | 8.1        |       |
| ASTM D422                 |            |       |
| Hydrometer =              |            |       |
| ASTM C566 AASHTO T255     |            |       |
| Moisture Content, % =     |            |       |
| ASTM C136 AASHTO T27      |            |       |
| Fineness Modulus (FM) =   |            |       |
| AASHTO M145               |            |       |
| Classification of Soils = | A1A        |       |
| ASTM D4791 Ratio =        | 1:5        |       |
| Flat & Elongated =        | 0          |       |