MATERIALS TEST REPORT FOR
Agresource, Inc.

REPORT TO: Agresource, Inc.
Mike Carignan
100 Main Street
Amesbury, MA 01913

DATE RECEIVED: Oct-17-2016
REPORT DATE: Oct-20-2016
CONDITION OF SAMPLE: Normal

PARTICLE SIZE (ASTM F1632)

<table>
<thead>
<tr>
<th>Lab ID#</th>
<th>Sample Name</th>
<th>Sand</th>
<th>Silt</th>
<th>Clay</th>
<th>No. 5 Gravel 4.0 mm</th>
<th>No. 10 Gravel 2.0 mm</th>
<th>No. 18 V. Coarse 1.0 mm</th>
<th>No. 35 Coarse 0.50 mm</th>
<th>No. 60 Medium 0.25 mm</th>
<th>No. 100 Fine 0.15 mm</th>
<th>No. 270 V. Fine 0.05 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>42092-2</td>
<td>Agresport Carver 2mm Topdressing</td>
<td>98.1</td>
<td>1.1</td>
<td>&lt; 1.0</td>
<td>0.0</td>
<td>0.0</td>
<td>8.8</td>
<td>40.3</td>
<td>36.2</td>
<td>8.6</td>
<td>4.5</td>
</tr>
</tbody>
</table>

USGA Recommendations for Greens

- Sand
  - ≥ 92%
  - ≤ 3%
  - ≤ 3% Gravel
- Silt
  - ≤ 10% Combined
- Clay
  - ≥ 60% Combined
- Gravel
  - ≤ 20%
- Fine Sand, Silt, and Clay fractions
  - ≤ 5%***

Greens Topdress Guidelines

- Sand
  - ≤ 3%
- Silt
  - 0%
- Clay
  - ≤ 5%
- Gravel
  - ≥ 60% Combined
- Fine Sand, Silt, and Clay fractions
  - ≤ 20%
- Very Fine Sand
  - ≤ 5%

PARTICLE SHAPE / pH / PARTICLE SIZE PARAMETERS

<table>
<thead>
<tr>
<th>Lab ID#</th>
<th>Sample Name</th>
<th>Shape Sphericity</th>
<th>Shape Angularity</th>
<th>pH 1:1</th>
<th>Uniformity Coefficient Cu</th>
<th>D15 mm</th>
<th>D85 mm</th>
<th>% Organic Matter Dry Wt.**</th>
</tr>
</thead>
<tbody>
<tr>
<td>42092-2</td>
<td>Agresport Carver 2mm Topdressing</td>
<td>High to Low</td>
<td>Rounded to Angular</td>
<td>3.1</td>
<td>0.25</td>
<td>0.90</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*ASTM F1632 and Determination of Size Factors SOP

**ASTM F1647 Method A

- ASTM D4972, method A, CaCl₂, 25 g sample used

***Maximum of 10% combined on Very Fine Sand, Silt, and Clay fractions.

Samples were tested as received and comments pertain only to the samples shown.
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Samples were received with a transmittal letter.

Reviewed by

Duane K. Otto

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Comments:

The Agresport Carver 2mm Topdressing sample was tested as received and is being evaluated for potential use as a greens topdressing. Guidelines for topdressing sand selection are included for your information and comparison.

The sample is a clean sand with minimal silt and clay. The sand fraction is uniform in particle size, with the majority of the sand falling into the coarse and medium sand fractions.

This sample has a gradation that meets USGA recommendations for greens but is slightly coarser than the greens topdress guidelines. The very coarse sand fraction is higher than the greens topdress guidelines and most of these particles will be removed through mowing.

We recommend topdressing with a material that is compatible with the existing greens mix/rootzone. Using a topdress sand that is compatible with the rootzone can minimize the risk of layering caused by placing a finer sand over a coarser sand. Compatibility should be verified by comparing these results to the particle size of the existing root zone.

Please let us know if you have any questions or are in need of further assistance. Thank you for using Turf & Soil Diagnostics, Inc.

Sincerely,
Duane Otto
Vice President