ATTENDEES

<table>
<thead>
<tr>
<th>Elected Official / Resident</th>
<th>Land Care Professionals</th>
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<tr>
<td>April Caricchio – City Councilor (absent)</td>
<td>Jesse O’Brien – Downeast Turf</td>
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<td>Linden Thigpen – Resident</td>
<td>Breece Sleeper – Always Green Tree Lawn &amp; Landscape (absent)</td>
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<td>Andrew Capelluti (absent)</td>
<td>Rachel Burger (absent)</td>
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<th>City Staff</th>
<th>Non-Governmental Organization</th>
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<tr>
<td>Julie Rosenbach – Sustainability Director</td>
<td>Cathy Ramsdell – Friends of Casco Bay Executive Director</td>
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<td>Rick Perruzzi – Athletic Fields &amp; Golf Course Manager (absent)</td>
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<td>Fred Dillon – Stormwater Program Coordinator (notes)</td>
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<th>Guests</th>
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<td>Newell Augur – Pierce-Atwood/Scott’s Miracle Gro / Lawn Care</td>
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Meeting Topic

Performance/application standards and corresponding best practices: focus on section 5

1. Review of last meeting & updates

   - Whereas section should consider emphasizing human health: “whereas human health is inextricably linked to and dependent upon the health of our environment…”
   - Need scientific citations that some kinds of fertilizer are harmful to human health
     - Types of N: NH4 and NO3 are inorganic fertilizers
     - Related discussion of inorganic/organic from perspective of chemistry (as in elements and compounds) vs. from an agronomic perspective
     - Maybe also consider from carbon/energy use perspective (e.g., relationship to climate change)
       - While it’s almost certain synthetic fertilizer requires more energy to produce, energy used to transport organic fertilizer is likely greater since it generally takes 3 times more organic material to provide same fertilizer benefit of synthetic material
     - Concerns that synthetic ferts can be harmful to soil: if over-applied they can acidify the soil
     - Consider including whereas that we all benefit from a healthy environment
     - Synthetic ban revisited: given they may be needed in certain circumstances a ban may be inadvisable
       - Based on turf types: performance, new development and all other/established

2. Discuss key performance/application standards & best management practices

   - Ref to best practices / BMPs: section 5 for prohibitions rather than performance standards: refer to handouts
- Regional Clean Water Guidelines...p. 21 & 24
- “All Applications” table
- Turf types (perf, new, all other) table – still to be filled out

- Section 5 gets at misuse and over-application
- Promote organic over synthetic in most circumstances due to better soil enhancement properties – except in certain situations as described above
- Identify practices that should NOT be done in all circumstances
- Soil types are key
- Lots of BMPs may be better in E&O – importance of clarity without getting too complicated
- Need for clear definitions with some flexibility
- Most people will employ the best based on affordability / cost
- The trend towards organic seems to be increasing
- Important to include clear concise description of what constitutes “heavy” rainfall amount
- Applications of “prills” (pellets) on IC should be swept up
- What about quick-release?
  - On est turf – if soil test determines need then 50% slow release / water insoluble N...OR
- Do established lawns even need fertilizer? Do clippings provide enough N? Not necessarily...
- What are the characteristics of a “good” lawn (density, color, etc.) and should ordinance define what this is
  - Some folks have very high expectations for what they want from a lawn (“yardners”); how should the ordinance address these concerns?
- Suggestion to decide whether references provided are sufficient to incorporate into ordinance? JR will make an attempt for response from FWG at next meeting
- Discussion of difference between pros vs DIY’ers: good pros are the least worrisome while DIY folks may not be as well-informed
- Discussion of “sensitive areas” – refer to existing zoning ordinance definitions
- Considerable discussion about timing and app rates: should ordinance specify only a single application for est lawns of up to 0.5lb/1000sf/yr?

3. October meeting dates
- Current scheduled for Oct 9th
- Add Oct 21st (or 28th for UNH presentation?)

Fert Ord Work Group Meeting Notes 9-11-19 draft