# 2013 North American Proficiency Testing Program
## 4th Quarter Report - January 14, 2014

### General

<table>
<thead>
<tr>
<th>Plant Analysis</th>
<th>Units</th>
<th>Plant 2013-210</th>
<th>Plant 2013-211</th>
<th>Plant 2013-212</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Median</td>
<td>MAD</td>
<td>Median</td>
</tr>
<tr>
<td>Dry Matter (%)</td>
<td>%</td>
<td>95.2</td>
<td>0.490</td>
<td>94.0</td>
</tr>
<tr>
<td>NO3 - N Cd Rd.</td>
<td>mg/kg</td>
<td>21.4</td>
<td>4.10</td>
<td>20.5</td>
</tr>
<tr>
<td>NO3 - N ISE</td>
<td>mg/kg</td>
<td>4151</td>
<td>28.0</td>
<td>74.5</td>
</tr>
<tr>
<td>NO3 - N Other</td>
<td>mg/kg</td>
<td>713</td>
<td>247</td>
<td>1030</td>
</tr>
<tr>
<td>NH4-N</td>
<td>mg/kg</td>
<td>5.00</td>
<td>0.000</td>
<td>31.0</td>
</tr>
<tr>
<td>PO4 - P</td>
<td>mg/kg</td>
<td>2100</td>
<td>353</td>
<td>596</td>
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<tr>
<td>SO4 - S</td>
<td>mg/kg</td>
<td>1080</td>
<td>179</td>
<td>198</td>
</tr>
<tr>
<td>CI</td>
<td>%</td>
<td>0.860</td>
<td>0.040</td>
<td>0.133</td>
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<tr>
<td>TKN</td>
<td>%</td>
<td>1.31</td>
<td>0.022</td>
<td>2.62</td>
</tr>
<tr>
<td>N- Dry Comb.</td>
<td>%</td>
<td>0.56</td>
<td>0.033</td>
<td>2.67</td>
</tr>
<tr>
<td>S- Dry Comb.</td>
<td>%</td>
<td>0.190</td>
<td>0.027</td>
<td>0.170</td>
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</table>

### Nitric / Perchloric

<table>
<thead>
<tr>
<th>Element</th>
<th>Units</th>
<th>Plant 2013-210</th>
<th>Plant 2013-211</th>
<th>Plant 2013-212</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>%</td>
<td>0.290</td>
<td>0.171</td>
<td>0.168</td>
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<tr>
<td>K</td>
<td>%</td>
<td>0.759</td>
<td>0.040</td>
<td>0.707</td>
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<tr>
<td>Ca</td>
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<td>1.22</td>
<td>0.050</td>
<td>0.510</td>
</tr>
<tr>
<td>Mg</td>
<td>%</td>
<td>0.430</td>
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<td>Na</td>
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</tr>
<tr>
<td>Fe</td>
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<td>Cu</td>
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<td>Mo</td>
<td>mg/kg</td>
<td>1.66</td>
<td>0.240</td>
<td>0.300</td>
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</table>

1. Values flagged exceed Warning Limits * * * 2.5 x MAD (Median Absolute Deviation) and Control Limits * * * 4 x MAD. "<" and "ND" values not recorded.
2. Limits not compared to lab data for methods with < 7 labs reporting.

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Page 1
<table>
<thead>
<tr>
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<th>Plant 2013-210</th>
<th>Plant 2013-211</th>
<th>Plant 2013-212</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Units</td>
<td>Median</td>
<td>MAD</td>
</tr>
<tr>
<td><strong>Nitric / Peroxide- MICROWAVE</strong></td>
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<tr>
<td>P</td>
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<tr>
<td>Mo</td>
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</tbody>
</table>

1 - Values flagged exceed Warning Limits "*" 2.5 x MAD (Median Absolute Deviation) and Control Limits "**" 4 x MAD. "<" and "ND" values not recorded.
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