Note to Registrant:

1. Washington State heavy metals calculations are rate based, not concentration based. As a result, some products require a lower detection limit and/or application limits on the label.
   - If you have a nutrient with a high percentage in the Guaranteed Analysis (GA), you may be able to have higher detection limits.
   - If all of the nutrients have a low percentage in the GA, you must test with lower detection limits. Low nutrients are common in organic based fertilizers and products specifically designed for Hydroponic and Continuous Liquid Feed.
   - To see if your detection limits are too high, use the heavy metals calculator.
     [https://agr.wa.gov/departments/pesticides-and-fertilizers/fertilizers/tips-for-registrants](https://agr.wa.gov/departments/pesticides-and-fertilizers/fertilizers/tips-for-registrants)

2. Metals that commonly fail due to high detection limits include Molybdenum (Mo) and Selenium (Se).

3. If available from your lab, request a Washington State heavy metals test. If not, make sure the lab utilizes the appropriate methods for all nine metals.

4. Indicate the product name on each report.

5. If the product is subject to Ecology review (waste-derived or micronutrient fertilizers) you must perform the tests as required on the Ecology Questionnaire in addition to the WSDA heavy metals test.

Note to laboratory:

1. Only use the methods and revisions approved by WSDA as noted in the table below.

2. The report must include:
   - Digestion/Preparation method(s) and revision(s) used.
   - Analysis method(s) and revision(s) used.
   - A detection limit (MDL, RL, PQL, etc.) for each element. Do not list results below this limit.
   - Units (ppm or mg/kg)
   - Results for all nine metals, either:
     - value above reporting limit, or
     - BDL (Below Detection Limit), ND (Not Detected), <value, etc.

3. Mercury requires a separate test.

<table>
<thead>
<tr>
<th>Accepted Methods*</th>
<th>AOAC</th>
<th>EPA SW-846</th>
<th>Suggested minimum detection limits for low guarantee products in ppm** (eg. 1% Nitrogen)</th>
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</thead>
<tbody>
<tr>
<td>Digestion/Prep</td>
<td>2006.03</td>
<td>3050B</td>
<td>3010¹</td>
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<tr>
<td>For all except Mercury</td>
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</table>

<table>
<thead>
<tr>
<th>Analytical Methods</th>
<th>Arsenic (As)</th>
<th>Cadmium (Cd)</th>
<th>Cobalt (Co)</th>
<th>Mercury (Hg)</th>
<th>Molybdenum (Mo)</th>
<th>Nickel (Ni)</th>
<th>Lead (Pb)</th>
<th>Selenium (Se)</th>
<th>Zinc (Zn)</th>
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</tr>
</tbody>
</table>

*Any subsequent revision (letter) to the methods listed above will be accepted by WSDA. Earlier revisions will NOT be accepted.

**If guarantee is less than 1% nutrient, use detection limits lower than those stated in this table.

1 Liquids Only
2 Solids Only