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**Potential Sources of Lead Contamination in  
Maple Syrup Production and Processing  
by Exhibit Category**

**January 2015**

| <b>Category</b>            | <b>Item</b>                                   | <b>Specific Components that <u>May</u> Contain Lead</b>  |
|----------------------------|---|--|
| <b>Exhibit A<br/>Items</b> | Spiles  | Terneplate coated spiles. Lead-soldered, tin or galvanized spiles.   |
|                            | Buckets and Pails                             | Terneplate coated buckets and pails. Lead-soldered, tin or galvanized buckets and pails.   |
|                            | Sap Gathering and Storage Tanks               | Lead-soldered seams or galvanized tanks.   |
| <b>Exhibit B<br/>Items</b> | Valves, Connectors, Joints and Level Controls | Any lead-containing fitting, solder or other contact surface that comes into contact with sap or syrup. Lead-containing bronze alloy valves. |
|                            | Pre-heaters, Piggy Backs, and Steam-Away      | Lead-bearing solder or fittings. Brass piping may contain lead.  |
|                            | Syrup Pumps                                   | Pumps made of brass or bronze alloys may contain lead, including fittings, etc.  |
|                            | Evaporator Pans (Sap & Syrup)                 | Lead soldering. Flue pans have more solder seams, resulting in greater potential for lead transfer.  |
|                            | Finishing Stoves & Tanks                      | Lead soldering in contact surfaces of tanks.   |
| <b>Exhibit C<br/>Items</b> | Sap Pumps                                     | Pumps made of brass or bronze alloys may contain lead, including fittings, etc.  |
|                            | Filling Units                                 | Lead soldering. Lead-containing bronze valves, fittings or taps.   |
|                            | Filter Tanks                                  | Lead soldering.  |
|                            | Filter Units                                  | Lead soldering. Brass and bronze alloys in pumps.  |
| <b>Other</b>               | Syrup Storage                                 | Galvanized or lead soldered drums. Old milk cans or other lead bearing or non-food grade containers.   |

- ◆ Ensure that any soldered repairs are done with lead-free solder.
- ◆ As a preventative measure, use a lead test kit if you are unsure whether a specific contact surface contains lead.
- ◆ Samples of maple syrup may be sent to a laboratory for lead content analysis to monitor the effectiveness of removal of lead-containing equipment in your operation. A listing of recommended laboratories is available.