**Table 3 Analysis Methods, Preservation and Holding Times (adapted from** [**WAC 173-308-140**](http://app.leg.wa.gov/WAC/default.aspx?cite=173-308-140)**)1**

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| --- | --- | --- | --- |
| **Parameter** | **Methods** | **Basic Preservation** | **Maximum Holding Time** |
|  | SW-846 6010 |  |  |
| Arsenic | SW-846 6020SW-846 7010 | Cool to ~4° C | 6 months |
|  | SW-846 7061 |  |  |
|  | SW-846 6010 |  |  |
| Cadmium | SW-846 6020SW-846 7000 | Cool to ~4° C | 6 months |
|  | SW-846 7010 |  |  |
|  | SW-846 6010 |  |  |
| Copper | SW-846 6020SW-846 7000 | Cool to ~4° C | 6 months |
|  | SW-846 7010 |  |  |
|  | SW-846 6010 |  |  |
| Lead | SW-846 6020SW-846 7000 | Cool to ~4° C | 6 months |
|  | SW-846 7010 |  |  |
| Mercury | SW-846 7470SW-846 7471 | Cool to ~4° C | 28 days |
|  | SW-846 6010 |  |  |
| Molybdenum | SW-846 6020SW-846 7000 | Cool to ~4° C | 6 months |
|  | SW-846 7010 |  |  |
|  | SW-846 6010 |  |  |
| Nickel | SW-846 6020SW-846 7000 | Cool to ~4° C | 6 months |
|  | SW-846 7010 |  |  |
|  | SW-846 6010 |  |  |
| Selenium | SW-846 6020SW-846 7010 | Cool to ~4° C | 6 months |
|  | SW-846 7741 |  |  |
|  | SW-846 6010 |  |  |
| Zinc | SW-846 6020SW-846 7000 | Cool to ~4° C | 6 months |
|  | SW-846 7010 |  |  |
|  | SM 4500, Norg B |  |  |
| Total Kjeldahl Nitrogen (TKN) | SM 4500, Norg C ASTM D3590-89 | Cool to ~4° C | 28 days |
|  | ASTM D3590-02 |  |  |
| Nitrate-nitrogen | EPA 353.2SM 4500-NO3 E, F, or H | Cool to ~4° C | 28 days |
| Ammonia-nitrogen | SM 4500-NH3 B + C, D, E,or G | Cool to ~4° C | 28 days |
| Organic Nitrogen | Calculated: TKN minus NH3-N | Not applicable | Not applicable |

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| Total Phosphorus | EPA 365.1EPA 365.3SM 4500-P B + E or FSW-846 6010SW-846 6020 | Cool to ~4° C | 28 days |
| PCBs | EPA 1668SW-846 8082 | Cool to ~4° C orFreeze at -18° C | 1 year |
| Dioxins and Furans | EPA 1613SW-846 8280SW-846 8290 | Freeze at -10° C | 1 year |
| Semi-volatile Organic Compounds | SW-846 8270 | Cool to ~4° CFreeze at -18° C | 14 days1 year |
| Volatile Organic Compounds | SW-846 8260 | Cool to ~4° C Freeze at -7° C or preserve withmethanol | 48 hours14 days |
| Total Solids, Fixed Solids, or Volatile Solids | SM 2540 G | Cool to ~4° C | 7 days |
| Volatile Solids Reduction | EPA/625/R-92/013(Appendix C) | Not applicable | Not applicable |
| Additional Volatile Solids Reduction for Anaerobically Digested Solids | EPA/625/R-92/013(Appendix D.1) | Hold at temperature of digesterMaintain anaerobic conditions | 6 hours |
| Additional Volatile Solids Reduction for Aerobically Digested Solids | EPA/625/R-92/013(Appendix D.3) | Cool to 20° C Maintain aerated conditions | As soon as possible |
| Specific Oxygen Update Rate (SOUR) | EPA/625/R-92/013(Appendix D.2) SM 2710 B | Hold at temperature of digester (10-30° C) Maintain aerobicconditions | As soon as possible |
| pH | SW-846 9040 (if <80%solids)SW-846 9045 (if >80%solids) | Not applicable | 15 minutes |
| Fecal Coliform | EPA 1680EPA 1681 EPA/625/R-92/013(Appendix F)SM 9221 C and E SM 9222 D | Cool to ~4° C | Analysis within 8 hours from time of collection.Extended to 24 hours if using EPA 1680 or EPA 1681 for Class A compost or Class B from a digesterSM 9222 D is not recommended and may only be used for Class B |
| Salmonella bacteria | EPA 1682SM 9260 D EPA/625/R-92/013(Appendix G) | Cool to ~4° C | 6 hours |
| Helminth Ova | EPA/625/R-92/013(Appendix I) | Cool to ~4° C | 1 month |
| Enteric Viruses | ASTM D4994-89 EPA/625/R-92/013(Appendix H) | Cool to ~4° C Freeze at -18° C | <24 hours2 weeks |

1. This permit will allow changes and updates to this table based upon EPA and WDOE method updates.