Metals - Ash Sampling Analytical Results (Unvalidated)
Draft Confidential - Do Not Distribute
Fruitland Magnesium Incident
TDD: 02-1606001 / Site ID: A9AP

| | | | | mwf-ash-001 | mwf-ash-002 | mwf-ash-003 | mwf-ash-004 |
|---|---|---|---|---|---|---|---|
| | Analyte | Method | Units | Result | Result | Result | Result |
| Metals | Antimony | EPA 6010B | mg/kg | 11.3 | 68.6 | 44.5 | 11.9 |
| | Arsenic | EPA 6010B | mg/kg | ND | ND | ND | ND |
| | Barium | EPA 6010B | mg/kg | 7210 | 2380 | 23.5 | 2790 |
| | Beryllium | EPA 6010B | mg/kg | 0.406 | ND | ND | 1.31 |
| | Cadmium | EPA 6010B | mg/kg | 1.78 | 8.03 | 1.46 | 3.72 |
| | Chromium | EPA 6010B | mg/kg | 86.1 | 31.8 | 108 | 46.3 |
| | Cobalt | EPA 6010B | mg/kg | 5.44 | 4.24 | 1.97 | 6.27 |
| | Copper | EPA 6010B | mg/kg | 4090 | 2820 | 758 | 4590 |
| | Lead | EPA 6010B | mg/kg | 63.7 | 460 | 88.1 | 186 |
| | Nickel | EPA 6010B | mg/kg | 111 | 41.6 | 23.6 | 62.8 |
| | Selenium | EPA 6010B | mg/kg | ND | ND | ND | ND |
| | Silver | EPA 6010B | mg/kg | 47.3 | 23.9 | ND | 23.1 |
| | Thallium | EPA 6010B | mg/kg | ND | ND | 1.51 | ND |
| | Vanadium | EPA 6010B | mg/kg | 11.3 | 4.4 | 27.8 | 18.8 |
| | Aluminum | EPA 6010B | mg/kg | 22400 | 11400 | 229000 | 17300 |
| | Calcium | EPA 6010B | mg/kg | 8310 | 5920 | 1400 | 10200 |
| | Iron | EPA 6010B | mg/kg | 16000 | 38700 | 1960 | 16300 |
| | Manganese | EPA 6010B | mg/kg | 1090 | 974 | 141 | 806 |
| | Potassium | EPA 6010B | mg/kg | 159 | 303 | 159 | 1850 |
| | Sodium | EPA 6010B | mg/kg | 205 | 192 | 321 | 368 |
| | Zinc | EPA 6010B | mg/kg | 1060 | 9010 | 842 | 1450 |
| | Magnesium | EPA 6010B | mg/kg | 429000 | 230000 | 3660 | 206000 |
| VOCs | benzene | EPA 8260B | ug/kg | ND | ND | 5600 | ND |
| | ethylbenzene | EPA 8260B | ug/kg | ND | ND | 1500 | ND |
| | naphthalene | EPA 8260B | ug/kg | ND | ND | 19000 | ND |
| | styrene | EPA 8260B | ug/kg | ND | ND | 61000 | 10 |
| | toluene | EPA 8260B | ug/kg | ND | ND | 2500 | ND |
| SVOCs | 2-ethylhexyl) phthalate | EPA 8270C | mg/kg | 0.52 | ND | 8.7 | 2 |
| | phenol | EPA 8270C | mg/kg | ND | 9.2 | 5.3 | 1.5 |
| | acenaphthene | EPA 8270C | mg/kg | ND | ND | 2.9 | ND |
| | acenaphthylene | EPA 8270C | mg/kg | ND | ND | 8.6 | ND |
| | anthracene | EPA 8270C | mg/kg | ND | ND | 6.6 | ND |
| | benzo (a) pyrene | EPA 8270C | mg/kg | ND | ND | 2.5 | ND |
| | benzo (b) fluoranthene | EPA 8270C | mg/kg | ND | ND | 3.1 | ND |
| | benzo (g,h,i) perylene | EPA 8270C | mg/kg | ND | ND | 1.2 | ND |
| | benzo (k) fluoranthene | EPA 8270C | mg/kg | ND | ND | 1.5 | ND |
| | chrysene | EPA 8270C | mg/kg | ND | ND | 5.3 | ND |
| | dibenzofuran | EPA 8270C | mg/kg | ND | ND | 0.65 | ND |
| | fluoranthene | EPA 8270C | mg/kg | ND | ND | 7.5 | ND |
| | fluorene | EPA 8270C | mg/kg | ND | ND | 12 | ND |
| | deno (1,2,3-c,d) pyrene | EPA 8270C | mg/kg | ND | ND | 1 | ND |
| | 2-methylnaphthalene | EPA 8270C | mg/kg | ND | ND | 4.1 | ND |
| | 1-methylnaphthalene | EPA 8270C | mg/kg | ND | ND | 3.1 | ND |
| | 3/4-methylphenol | EPA 8270C | mg/kg | ND | ND | 1.6 | ND |
| | naphthalene | EPA 8270C | mg/kg | ND | ND | 15 | ND |
| | phenanthrene | EPA 8270C | mg/kg | ND | ND | 32 | 1.3 |
| | pyrene | EPA 8270C | mg/kg | ND | ND | 10 | ND |
| | Sb | EPA 1311/6010 | | nd | 0.175 | | |
| | As | EPA 1311/6010 | | nd | | | |
| | Barium | EPA 1311/6010 | | 18.2 | 17 | | 4.16 |
| | Be | EPA 1311/6010 | | | | | |
| | Cd | EPA 1311/6010 | | | | | |
| | Cr | EPA 1311/6010 | | | | | |
| | Co | EPA 1311/6010 | | | | | |
| | Cu | EPA 1311/6010 | | 0.637 | 1.08 | 0.293 | 0.284 |
| | Pb | EPA 1311/6010 | | | 0.546 | 4.38 | 0.272 |
| | Nickel | EPA 1311/6010 | | | | | |
| | Selenium | EPA 1311/6010 | | | | | |
| | AG | EPA 1311/6010 | | | | | |
| | Thallium | EPA 1311/6010 | | | | | |
| | Vanadium | EPA 1311/6010 | | | | | |
| | Aluminum | EPA 1311/6010 | | 2.09 | 2.83 | 48.6 | 2.26 |
| | ca | EPA 1311/6010 | | 69.8 | 72.8 | 21.1 | 114 |
| | fe | EPA 1311/6010 | | | 2.13 | | |
| | Mg | EPA 1311/6010 | | 407 | 494 | 54.9 | 472 |
| | Mn | EPA 1311/6010 | | 0.222 | 0.38 | 0.445 | 0.562 |
| | K | EPA 1311/6010 | | | | | 13.7 |
| | Zinc | EPA 1311/6010 | | 1.5 | 10 | 14.1 | 1.84 |
| | Total PCBs | EPA 8082 | | <50 | <50 | <50 | <50 |

mg/kg = miligrams per kilogram
ug/
mg/kg = miligrams per kilogram
ND = Analyte not detected

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