ICP metadata for in Falling Creek Reservoir (FCR), Beaverdam Reservoir (BVR), and Gatewood Reservoir (GWR) in 2014 and 2015

Created by Zackary Munger on July 7, 2016.

Water samples were collected in the reservoir using a 4 L Van Dorn sampler (Wildlife Supply Company). After collection, we poured raw water samples directly into HDPE bottles for total metal analyses and syringe-filtered water using 0.45 μm nylon filters into HDPE bottles for soluble metal analyses. The samples were acidified with trace metal grade nitric acid to pH <2 to preserve them until analysis. All ICP data were analyzed using an ICP-MS (Thermo Electron X-Series) following APHA Standard Method 3125-B (American Public Health Association et al., 1998). Data were analyzed by Jeffrey Parks in the Civil and Environmental Engineering Department at Virginia Tech.

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| **Column** | **Description** |
| Reservoir | Name of reservoir where data were collected |
| Year | Year when data were collected |
| Date | Date when data were collected |
| Depth | Depth (meters from surface) in the water column at which data were collected |
| ICP data | Left text indicates sample fraction. “Tot” indicates raw water sample analyzed for total metal concentration. “Sol” indicates filtered water sample analyzed for soluble metal concentration. Water samples were syringe filtered in the field with 0.45 μm diameter pore filters |
| Middle text indicates element abbreviation for which the concentration data correspond |
| Right text indicates concentration, e.g., ugL is micrograms per liter |

Data shown as < followed by some value are below the minimum detection limit. The value is the minimum detection limit. Blank cells indicate that measurements for that analyte were not made on that date.

Data in the FCR ICP csv file that show depth of 999 were collected in the primary tributary inflow (Inflow 2). These samples were collected 10 meters upgradient from the weir and were grab samples.

Water samples were collected by Cayelan Carey, Chris Chen, Jon Doubek, Alex Gerling, Mariah Haberman, Kate Hamre, Charlotte Harrell, Spencer Klepatzki, Mary Lofton, Ryan McClure, Zack Munger, and Mariah Redmond, and Maddy Ryan. Corresponding data collector is Zackary Munger, mzacka@vt.edu