



Figure 5.41. Sulfur in leach column effluent as a function of time for duplicate columns of Houchin Creek Shale (1 and 2), Lower Kittanning Shale (3 and 4), Kanawha Black Flint Shale (5 and 6), Brush Creek Shale (7 and 8), and a single column of Middle Kittanning Sandstone (9). *A*, Cumulative sulfate-sulfur. Curves are labeled with the weight percent pyrite determined by XRD (Table 5.4). *B*, Percentage of initial sulfur leached. Initial sulfur based on chemical analyses by TD-ICP reported in Table 5.2. See Appendix 5.2 for leachate data and calculations.