

Bonneville Forebay & Upstream Locations Sediment Quality Evaluation

September 18, 2002, This sampling event attempted to collect, up to thirty (30) samples, to produce a statistically significant number of fine-grained sediment samples to evaluate the level of Polychlorinated biphenyls (PCBs) in the Bonneville Forebay and upstream areas, excluding the Bradford Island remediation site. The plan attempted to collect sufficient samples to represent the baseline conditions upstream of the eddy effects of the dam operations and reflect the conditions within the forebay. Sixteen (16) fine-grained surface grab samples were planned upstream of eddy effects area and up to fourteen (14) in the forebay below the eddy effects area. The potential fine-grained sediment locations were selected with the aid of a computer model, which reflects the various flow conditions associated with the dam's operation in near-bottom flows.

Due to the rocky nature of the river bottom and the current effect in much of the area, only eight (8) sediment samples were collected. Two (2) sampling stations were collected in the forebay area and six (6) stations sampled above the eddy effect area. PCBs, as Aroclors, were not detected above established levels of concern in any of the samples collected. Aroclor 1254 was detected in one (1) sample collected on the south side of Bradford Island, BF-BC-07, at 19.1 ug/kg-ppb (parts per billion).