

Supplement #1: Summary notes for the June 24, 2020 – Rumford Falls Project MDEP Site Visit

During the June 24 site visit, spill was present at Middle Dam and as a result flow conditions through the Middle Dam bypass reach were in excess of minimum flow conditions normal for the summer period. Per the request of Maine DEP, Normandeau biologists revisited the preferred and secondary locations for deployment of a temperature/dissolved oxygen logger and benthic macroinvertebrate samplers on June 29 when the Middle Dam impoundment was drawn down two feet for trophic impoundment sampling. Conditions in the Middle Dam bypass reach on that date were representative of minimum flow.

Figures 1 and 2 present conditions in the Middle Dam bypass reach at the preferred deployment location downstream of the bypass pipe and dam spouts. Based on the photographed conditions, water depths in the preferred deployment area are sufficient for continuous submergence of the continuous monitor for a two month deployment and macroinvertebrate samplers for a 28 ± 4 day deployment. Substrate in the preferred deployment location appears to be a mixture of bedrock, large and small boulder and cobble.



Figure 1. Preferred Middle Dam bypass reach logger deployment location under minimum flow conditions.



Figure 2. Preferred Middle Dam bypass reach logger deployment location under minimum flow conditions.

Figures 3 and 4 present conditions in the Middle Dam bypass reach at the secondary deployment location in pool habitat located just upstream of the bedrock cascade portion of bypassed reach. Based on the photographed conditions, water depths in the secondary deployment area are also sufficient for continuous submergence of the continuous monitor for a two month deployment and macroinvertebrate samplers for a 28 ± 4 day deployment. Substrate in the secondary deployment location appears to be a mixture of large and small boulder and cobble.



Figure 3. Secondary Middle Dam bypass reach logger deployment location under minimum flow conditions.



Figure 4. Secondary Middle Dam bypass reach logger deployment location under minimum flow conditions.