

<b>UNIT LOG</b>		<b>1. Incident Name</b> Canyon Lake Dam Reconstruction	<b>2. Date Visited</b> 7-30-2004	<b>3. Visited:</b> Canyon Lake Dam and Wyant Lake
<b>4. Project Area</b> Canyon Lake Dam		<b>5. (Name and Position)</b> Rob Brassfield, NZ fisheries bio.		
<b>7. Parties Involved</b>				
<b>Name</b>		<b>Position</b>		
no others				
<b>8. Activity Log</b>				
<b>Activity Reviewed</b>				
Placement of small boulders on Dam		I observed the MCC crew placing small boulders on the upstream side of the dam face. Their work was above the water line and there were no effects to water quality.		
Notch in concrete above conduit		I observed the area where the dam had been notched, above the conduit. I also observed the wet meadow area downstream of the notch to see if there had been much erosion, as was predicted may occur if high water were concentrated through this new "spillway" in the dam. Historically, the spillway was on the north side of the dam and that route was scoured to rock. There was very little sign of recent scouring in the wet meadow downstream of the dam.		
Wyant Dam		I walked to Wyant dam as the MCC crew mentioned that the gate had been closed to slow water entering Canyon Dam. There was concern, from the reconstruction feasibility standpoint that the water level in Canyon Reservoir was not dropping fast enough (I was told it was dropping at 1-2 inches per day). I was concerned by the decision to close the Wyant conduit because water from the Wyant Lake area feeds the primary cutthroat trout spawning tributary of Canyon Lake. As the MCC representative mentioned, I observed that the closed gate and dam at Wyant Lake were leaky, to the point where Wyant was not storing water (the reservoir was empty) even with the gate closed, so there was no effect to flow downstream and no effect to fish.  No fish or amphibians were seen in the wet meadow below Wyant Reservoir.		
<b>9 Findings and/or Recommendations</b>				
Placement of small boulders on Dam		No adverse impacts of activity observed.		
Cutting of Notch in concrete above conduit		I noticed a gas can sitting in the construction area near the notch. It was approximately 40 feet from the reservoir. It was set so it could not be easily knocked-over, and it was probably safe, but it was not secured as directed in the mitigation measures. I asked that it be stored in a containment area away from surface water. Aaron (Hydrometrics) moved it almost immediately to a safe location.  There was no sign of recent scouring in the wet meadow downstream of the dam (Photo).  Although there was some fine sediment that entered the stream, as evidenced by the sides of the steep cuts made to uncover the conduit, the amount appeared to have no impact on the depth of pools or other indices of fish habitat.		

Wyant Dam	No adverse impacts of activity were observed.
<b>10. Prepared By:</b>	
Rob Brassfield, BNF North Zone Fisheries Biologist, 3/18/05 (re-written as could not find previous summary of notes).	

This is the outlet of Canyon Lake. Most of the water was flowing through the conduit and smaller amounts were running through the notch. The picture following this one is of the meadow in the background.



There was concern that parts of this meadow would erode substantially as the spillway was moved during construction to a point immediately upstream of the meadow. The historical spillway is to the north (left in the picture). There was no readily observable impact to the meadow or downstream fish habitat.



The photo below shows the inlet of the conduit, some of the fine material in the dam structure, and the gas can (red, left and above center in photo) that was moved to reduce the risk of inadvertent spillage toward surface water.

