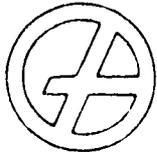


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DEPARTMENT OF ECOLOGY
NORTHWEST REGION

March 7, 1990

Our ref: 873-1295.015

FishPro Inc.
3780 S.E. State Highway 160
Port Orchard, WA 98366

ATTENTION: Mr. E. Donahue

RE: WHITE RIVER HATCHERY - EVALUATION OF LONG TERM
PUMP TEST DATA AND WELL-FIELD YIELD

Dear Mr. Donahue:

At your request, we have prepared this letter which presents an evaluation of well-field capacity at the White River Hatchery. The analysis presented in this letter is based on water-level, pumping-rate, and river-flow data collected at the hatchery between January, 1988 and December, 1989.

1.0 BACKGROUND

The White River hatchery is located adjacent to the White River between Buckley and Enumclaw, and overlies a shallow alluvial/glacial aquifer composed of fine sand, sand and gravel, and silty gravel. The hatchery requires 2,250 gpm (5 cfs) for Phase 1.

Well drilling and pump testing between November, 1987 and April, 1988 resulted in the completion of three observation wells (OB-1, OB-2, and OB-3) and three production wells (PW-1, PW-2, SB-1) with an estimated combined yield of 1,300 gpm (based on pump tests conducted between February and April, 1988). Additional well drilling carried out between September, 1988 and May, 1989 resulted in the installation of three test/observation wells (TW-5, TW-7, TW-12) and three additional production wells (PW-3, PW-4, and PW-5), for a total of six production wells.

Continuous pumping of wells PW-1, PW-2, PW-3, and SB-1 with short-term pump testing of wells PW-4 and PW-5 during high river-flow periods indicated that a combined well-field yield of 2,250 gpm appeared to be possible. However, to determine the year-round yield of the well field, Golder Associates recommended pump testing all the wells during the summer and fall when river levels are lowest.

OTHER REPORT Aug. 88