

CHARLES  
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ENGINEERING

June 11, 1995

Mr. J.D. May  
Ellsworth, May, Sudweeks, Stubbs, Ipsen & Perry  
516 Second Street East  
P.O. Box 1846  
Twin Falls, ID 83303

Subject: Rangen Fish Facility-Pumping Feasibility

Dear J.D.:

Following our site review of the Rangen aqua culture facility on June 7, 1995, I have examined the potential for developing a pumping system which could assist in mitigating the diminished flow from the Curren tunnel for all users.


It is possible to develop a pump-back system which would transport water from the west end of the Rangen raceways back up to a point near the tunnel. During low flow periods, when the spring outflow is not sufficient to supply all of the early irrigation rights (Crandelmire, Musser, Candy and Rangen) all or part of those rights could be pumped from the end of the last Rangen raceway to a small reservoir near the tunnel mouth from which the three pipes of the above users flow to the south. This would provide the same pressure on each of the three pipes as is currently available and firm up the flows.

It appears that the best route for a pipeline would be along the north side of the Rangen property, perhaps along the road to the spring. Any route along the south side would be more expensive and difficult to construct. Pumping lifts of about 85 feet will be required with a pipeline length of approximately 2200 feet.

I have not had time to complete a feasibility study which would include route selection, hydraulic evaluation, pump and pipe size evaluation, operating criteria and construction and operating costs. It is estimated that this would require 60 to 90 days to complete.

Please let me know if you desire to proceed with the evaluation.

Sincerely,

  
C. E. Brockway, P.E.

CHARLES E.  
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**Received**

JUN 13 1995

EXHIBIT "A"

LEKS.  
RRY