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GOLDEN, COLORADO

We have investigated in a cursory manner three different plans for getting reservoir water for the Ward Canal.

### 1<sup>st</sup> Bendemeer Lake.

This lake site is about 8 miles above ~~and~~ Evergreen on Bear Creek.

With a 45 ft dam 1250 acre ft would be impounded. If the water were drawn down to the 22 ft contour about 1000 acre feet ~~could be~~ would be available and still leave a lake of 23 acres. When full the lake would cover 67 acres.

It is impossible to estimate accurately the cost of construction without ~~going~~ to making surveys and sinking some test pits but the dam would probably cost between \$60000<sup>00</sup> and \$80000<sup>00</sup>.

Mrs M. J. Hoff controls ~~Bendemeer~~ the company which owns most of the Bendemeer Lake site. It was suggested that her company and



the Ward Canal Co build the lake jointly. Her company to have the resort privileges and the Ward Canal to have 23 ft off the top for reservoir purposes. Mrs. Hoff has indicated her willingness to consider this plan of procedure.

### 2<sup>nd</sup> Evergreen Lake

It was suggested that a ~~similar~~ ~~now~~ similar arrangement be made with the city of Denver in regard to Evergreen Lake. About 600 acre feet of water might be obtained at this lake site. Mr. Vail, the manager of Parks and improvements has indicated his willingness to cooperate with the Ward Canal Co on this project. The estimated cost is about \$80000<sup>00</sup> according to an estimate made several years ago.

### 3<sup>d</sup> Cycler Lake

It was suggested that a heavy iron or concrete pipe be laid up the bed of Bear Creek a ~~distance~~ from



the present head gate of the Ward Canal  
a distance of 1400 ft. to a point  
35 ft higher than the present intake.  
That a concrete dam be built at  
this point that the lower end of  
the pipe be turned directly up the hill  
~~under the~~ passing under the concrete  
highway make a syphon about  
1500 ft long. That a new ditch  
be built to the first low pass into  
Cycler basin. That Cycler basin  
be developed into a combination  
reservoir settling basin and resort.  
That ~~all~~ a new segment of ditch  
be built from the dam to the lower  
end of the present big syphon thereby  
eliminating ~~all of the~~ the big syphon and  
all that troublesome sector of ditch  
between ~~the~~ big syphon and the intake  
Cycler dam would have to be 35 ft  
high before the water would flow  
into the Ward Canal. If it were  
built high enough to store water  
50 ft deep, there would be available  
? acre feet of water



# 2 960 1000

The cost of construction can not be figured without making surveys and investigating local conditions but the following figures may be useful as the first stepping stone.

Bear Creek diversion dam	# 2500.
1600ft syphon	16000.
3000 ft new ditch	3000.
Cycler dam 55 ft high	# 5000.
	<hr/>
	# 56500.

The advantages of this project are

- 1<sup>st</sup> The reservoir capacity is over twice the annual requirements hence the reservoir could be filled in wet years and part of the water carried over for dry years when little or no water could be impounded
- 2<sup>nd</sup> a new and enlarged intake and upper sector of the ditch would be provided which would



carry 250 sec ft of water and  
which would be easy to keep clean.

3<sup>d</sup> The worst part of the present ditch  
would be eliminated

4<sup>th</sup> We would take our water above  
the Harriman kitch instead of below  
it.

5<sup>th</sup> a settling basin would be provided  
which would give clean water at  
all times thereby cutting down  
the cost of clearing the ditch.

We hereby recommend that the Ward Canal  
Vote \$750000<sup>00</sup> of bonds <sup>bearing not more than 6% interest</sup> and authorize  
the board of directors to sell part or  
all of these bonds and invest the  
money in the construction <sup>of</sup> any one of the  
above mentioned projects providing that  
after a thorough investigation they  
find that a fairly dependable yearly  
supply of reservoir water can be obtained  
at a price of not more than \$50<sup>00</sup> per  
acre foot for the perpetual ~~ownership~~ right.  
or 3<sup>00</sup> per acre foot - per year.