

ENGINEERING REPORT UPDATE FOR TREGO LAKE -
NOVEMBER 15, 1993

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TO: TREGO LAKE ASSOCIATION

GENERAL:

The three phases of the engineering activity as previously developed are as follows:

1. EXCAVATION OF SEDIMENT IN UPPER REACH OF TREGO LAKE.

It would be advisable to set a target date for the first week in October, 1995, to commence a drawdown of Trego Lake to provide access to the sediment alone without the necessity of handling large volumes of water if the lake were dredged. A conveyor belt system in the lake bed with a second system to move the material to an onshore loading site would probably be the most cost effective as it would eliminate the need for earth moving equipment or trucks to drive up and down the bank into the lake bed. The amount of material removed would depend on the amount of monies available to pay the contractors.

A cooperative effort involving NSP, the DNR and the Association would handle the specific target date, writing the necessary drawdown permits and checking the sediment for possible contaminants. Also a site must be found for depositing the excavated material; the location is important because the distance the material must be hauled once it is loaded will also be added to the cost per yard. The target date for the fall of 1995 will allow the Association sufficient time to prepare the necessary permits and develop the sources for funding the project.

2. SEDIMENT SOURCE STUDY

Dr. Robert Hooper, UWEC, the Association's geology consultant, has recommended the study area be extended upstream possibly to the dam at Hayward. During the September, 1993, on site, we observed sediment moving downstream at the old bridge site at Springbrook. We concluded that a downriver trip from Hayward might be of some use in developing a better view of other possible sources of the sediment. We also modified the sediment collectors to provide a very small front edge to the current to decrease the turbulence caused the collectors. It is anticipated we will commence this phase of the study as soon as the river becomes ice free in the spring of 1994.

3. SEDIMENT TRAP/COLLECTOR

The proposed sediment trap/collector is not a crucial structure as far as immediate planning is concerned as the trap can be installed at any time in the future when funds are available. Its value, of course, is the use of such a collector will extend the time when another

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drawdown/excavation would become necessary. The installation of such a device at the Trego Park location is desirable because this location is on public land with easy access to the river. This location would also intercept the obvious large bed load of sand lying between the Old Wagon Bridge and the railroad bridge.

CONCLUSION:

Trego Lake is a valuable resource; not only in its ability to generate power but also as a recreation and scenic asset. Since all lakes will eventually disappear, either by filling in or by being drained, any activity that will extend the life of the lake should be seriously considered; not only for the benefit of the riparian owners but for the general public as a whole- present and future.