3. Redelineation

The wetlands were originally delineated in the fall of 1990, using the 1989 Federal Jurisdictional Manual methodology. Wetland boundaries were not professionally surveyed in the field, however, they were surveyed by a wetlands biologist using a hand-held compass and a measuring tape. The information was then drawn onto a 1989-90 topographic survey map of the site. Information on beaver dam locations, surface water/marsh wetland boundaries, and the location of the beaver lodge was collected visually and drawn on the maps by hand.

During the fall of the fifth monitoring year a redelineation of the wetlands will be conducted using the same methodology as was used in the initial delineation. Similar maps to the ones presented in the November 1990 Wetland Assessment Report will be produced with information from the redelineation, and a report on existing conditions of the wetlands will also be developed.

In addition to photo documentation, water measuring devices, and redelineation of the wetlands, visual observations (such as the number of beaver dams, flooding evidence, etc.) of the wetlands will be recorded at the time of the photo visits. These observations will act to reinforce the data collected and assist in data analysis.

IV. EVALUATION OF DATA

Information from the data collected will be used to determine the changes that may have occurred to the wetlands during the monitoring period. Conclusions on whether any of the changes can be attributed to the hatchery operations will be made at the end of the monitoring period and will be included in the Final Report.

Photo evaluation will consist of recording any visible changes in wetland characteristics observed from the photos when compared on a yearly basis.

Water levels and flows will be under constant evaluation, especially during the dry season, in order to enable hatchery personnel to respond to any changes. Water level in the wells and data from the water monitoring devices are indicators of when water will need to be added to the wetlands from the surface water intake.

A comparison of the 1990 wetland delineation and the final redelineation will be made. Acreage and wetland characteristics will be the key indicators of any wetland changes. If adverse change to the wetlands is found to be attributed to the hatchery, then steps will be taken to return the wetlands to their natural condition.