

August 23, 1957.

MEMORANDUM FOR OFFICE STUDY ONLY BY Clifton W. Johnson and Donald C. Norseth

RE: TWELVE MILE CREEK DISTRIBUTION

August 21, 1957, Donald Norseth and Clifton Johnson made an investigation of the Birch Creek tributary to Twelve Mile Creek and the reservoirs in the area.

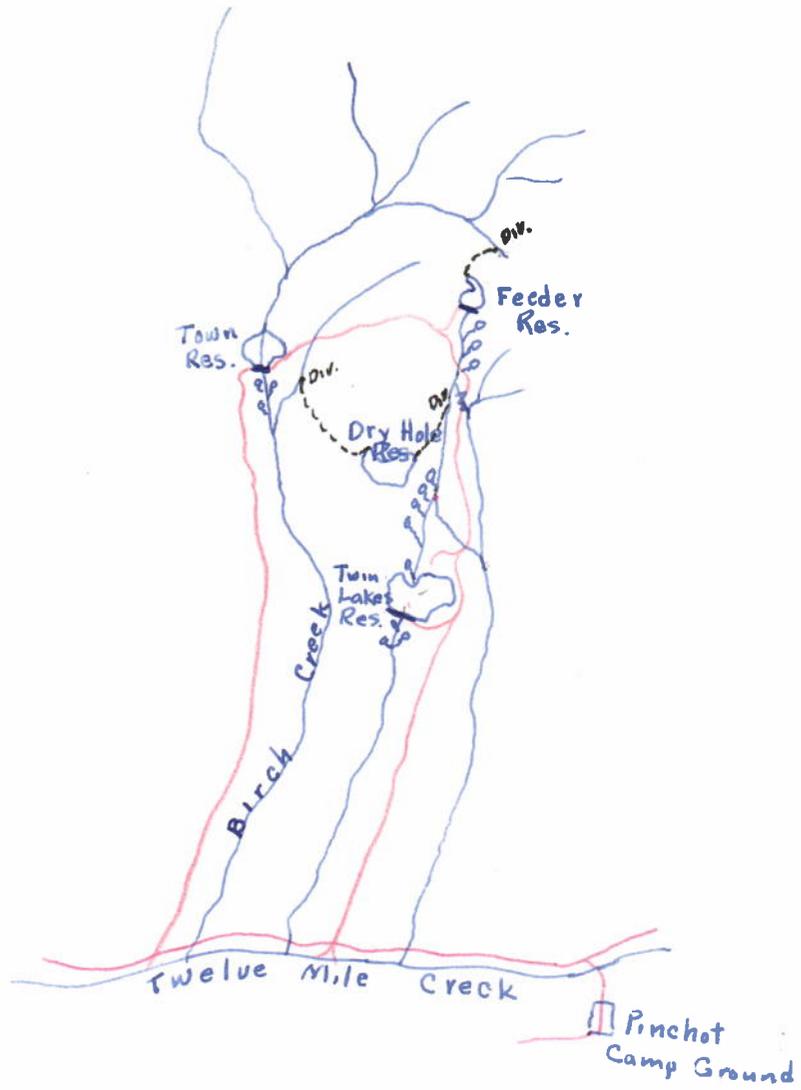
Town Reservoir was about $1/3$ to $1/2$ full and being emptied at the time of the visit. Only small amount of seepage is evident below the dam.

The Feeder Reservoir had been emptied prior to the visit and the spring stream above the reservoir was turned to flow through the reservoir and out of the discharge pipe. The flow into the Feeder Reservoir was measured at the weir to be 1.30 c.f.s. and 1.17 c.f.s. out of the reservoir--some water was collecting in the reservoir because of the size of the outlet pipe and the level of the water was several feet above the outlet. About $1/2$ mile below Feeder Reservoir the flow was measured at 1.25 c.f.s. and the increase was due to seeps along the east bank (the seeps higher up had ceased flowing since the July visit and the lower seeps were flowing less.)

Dry Hole Reservoir was completely dry and the seeps below the reservoir were flowing about 0.3 to 0.4 c.f.s. Above Twin Lakes Reservoir 0.44 c.f.s. was passing the weir and entering the reservoir (about the contribution of Dry Hole Seeps) and 1.56 c.f.s. was flowing down the eastward channel (the increase from 1.25 to 1.56 was due to seeps and springs from the East side of stream.)

Below Twin Lakes at the weir below the seeps, the measurement was 2.2 c.f.s. and the Twin Lakes Reservoir was about half full or less.

Due to recent storms the measurements may not have been quite normal during this visit.



— Road
 — Streams

Scale — 1 in. = about 1 mi.