

January 4, 2005

Shoshone Bannock Tribes Water Resources  
PO Box 306  
Fort Hall, Idaho 83203

Ken O'Brien  
O.W. Ranches, Inc.  
364 Judd Lane  
Coeville, UT 84017

Dear Ken O'Brien:

The purpose of this letter is to summarize surface water information collected on the property of OW Ranches, Inc. The data was collected April 2004 –July 2004 by the Shoshone Bannock Tribes Water Resources Department (WRD). Topics of summarization are drainage and catchment areas, the location and time the water dries up, and any alternate water sources.

The basin consists of 2 custom built reservoirs that collect water from ~~Folton~~ Creek, located within a 127-acre drainage area, about 2.5 miles southeast of Grays Lake. The area is wooded, blended with heavy grass and some sagebrush. The average annual runoff ranges from 69-96 acre-feet/year. All runoff is diverted through 2 man-made reservoirs and flows westerly, towards Grays Lake, in the form of surface water. A number of flows were measured, by the WRD (See Map 3), using a Marsh-McBirney Flow mate, on April 16, 2004 (season of high runoff) and on June 21, 2004 (season of normal runoff). The results are summarized in Table 1:

Table 1

| Date      | Res 2 Inflow | Res 2 Outflow | Res 1 Inflow 1 | Res 1 Inflow 2 | Res 1 Outflow |
|-----------|--------------|---------------|----------------|----------------|---------------|
| 4/16/2004 | 0.10 cfs     | 0.07 cfs      | 0.08 cfs       | 0.22 cfs       | 0.10 cfs      |
| 6/21/2004 | 0.09 cfs     | 0.07 cfs      | 0.03 cfs       | 0.07 cfs       | 0.05 cfs      |

All measurements were taken in cubic feet per second (cfs) and the table shows a significant decrease in flow from April to June (Map 3). April is considered a period of high runoff because of the melting snow. Reservoir 2 is higher in elevation than Reservoir 1 and a stream connects them measuring approximately 500 feet. There are a few small springs in the basin and it's possible that some of these springs are below Reservoir 2 and supplying the main inflow into Reservoir 1. The newly constructed reservoir (Reservoir 1) can store approximately 2 acre-ft of water, which was measured by the Shoshone Bannock Tribes Water Resources Department. Water stored in the 2 reservoirs is for stock water purposes only.

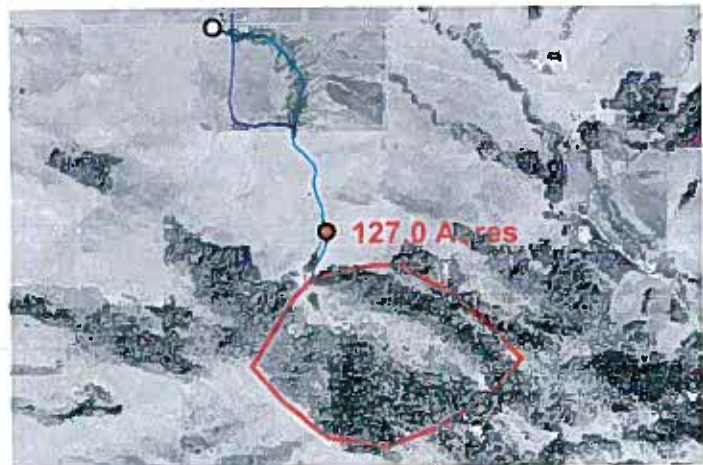
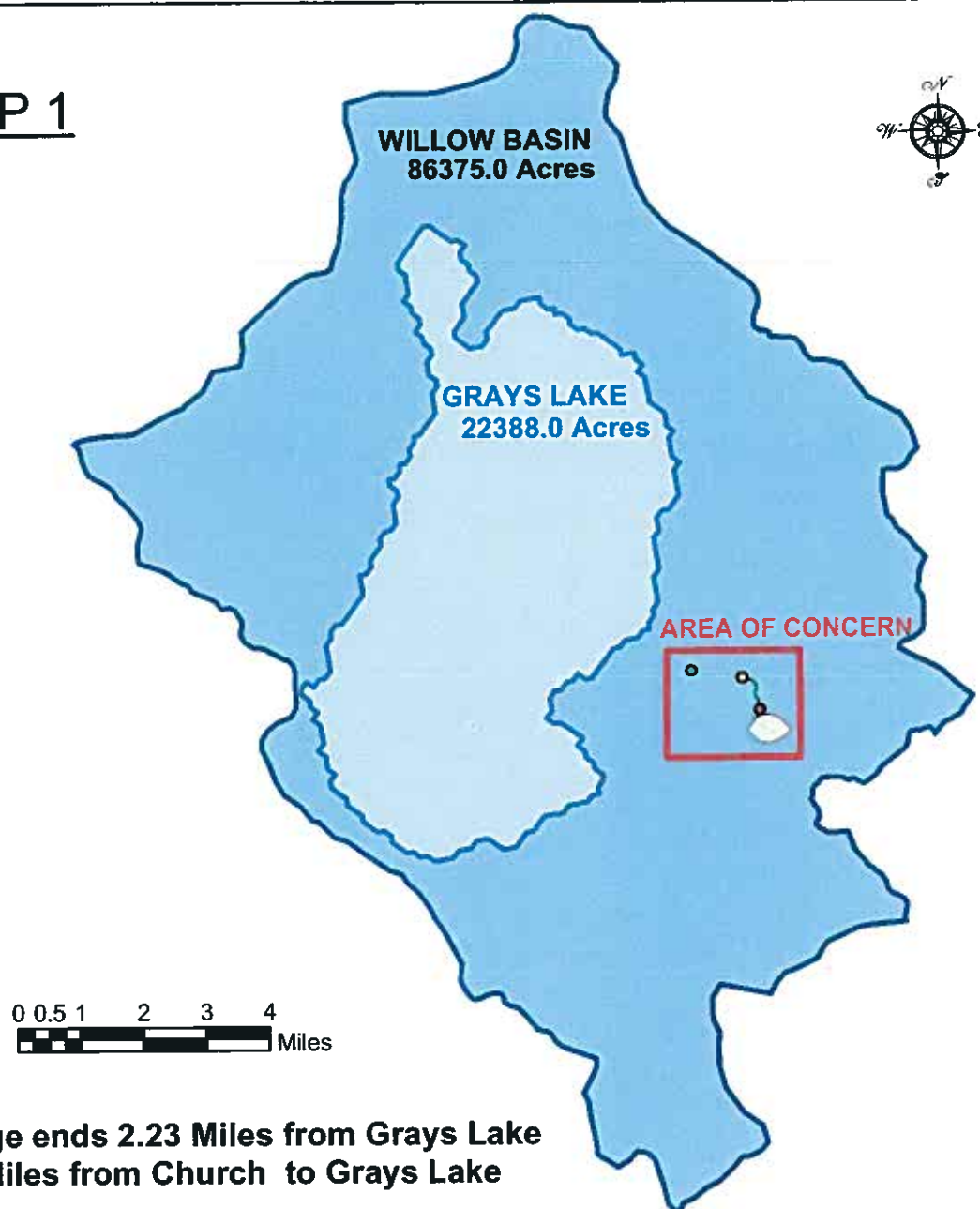
Once the water is discharged from Dam 1 it meanders until about 1 mile east of Grays Lake. At that point it branches out and seems to dry up during the period of high runoff in the spring. Map 3 indicates the plausible location where the creek dries up, around June 10, which is about 350 yards east of the church. Around July 7th, the stream disappears approximately 1 mile east of the church, which is a point about 3.2 miles from the banks of Grays Lake (See Map 1).

According to the observation of the WRD, there were no other water sources available in the proximity of ~~Felten~~ Creek. Therefore, there was no alternate water source that could be influenced or influence the O.W. Ranch project.



Jaron Burnside, Deputy Water Engineer

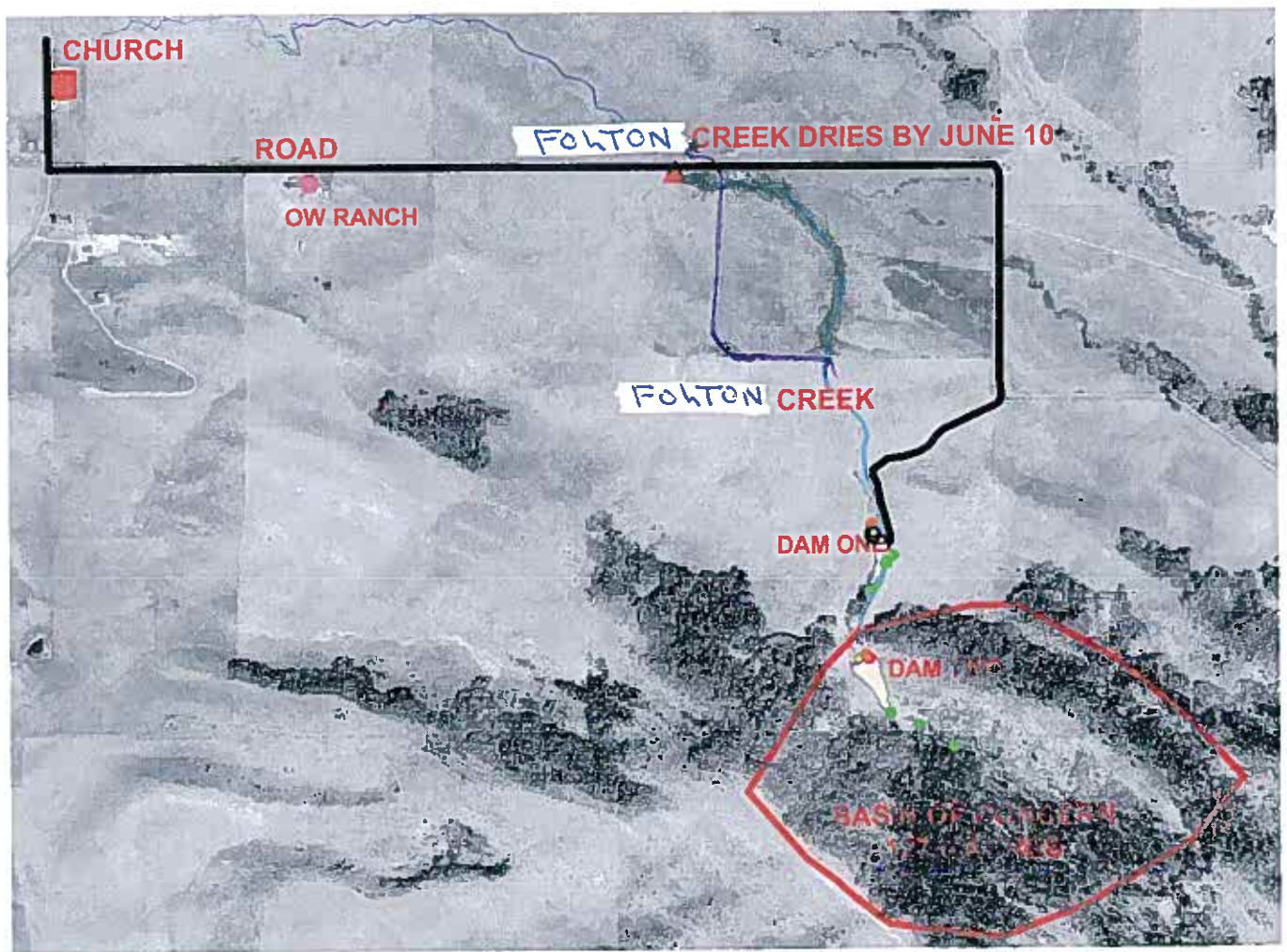
# MAP 1



## Legend

- Discharge Ends 07/10
- Dam
- Church
- Discharge
- Grays Lake
- AOC
- Willow Basin Watershed

# OW RANCH WITH AREA OF CONCERN



**MAP THREE**

## Legend

- INFLOW VELOCITY
- LEAKAGE
- OUTLET
- OUTLET VELOCITY
- DAM ONE

0 45 90 180 270 360 Yards