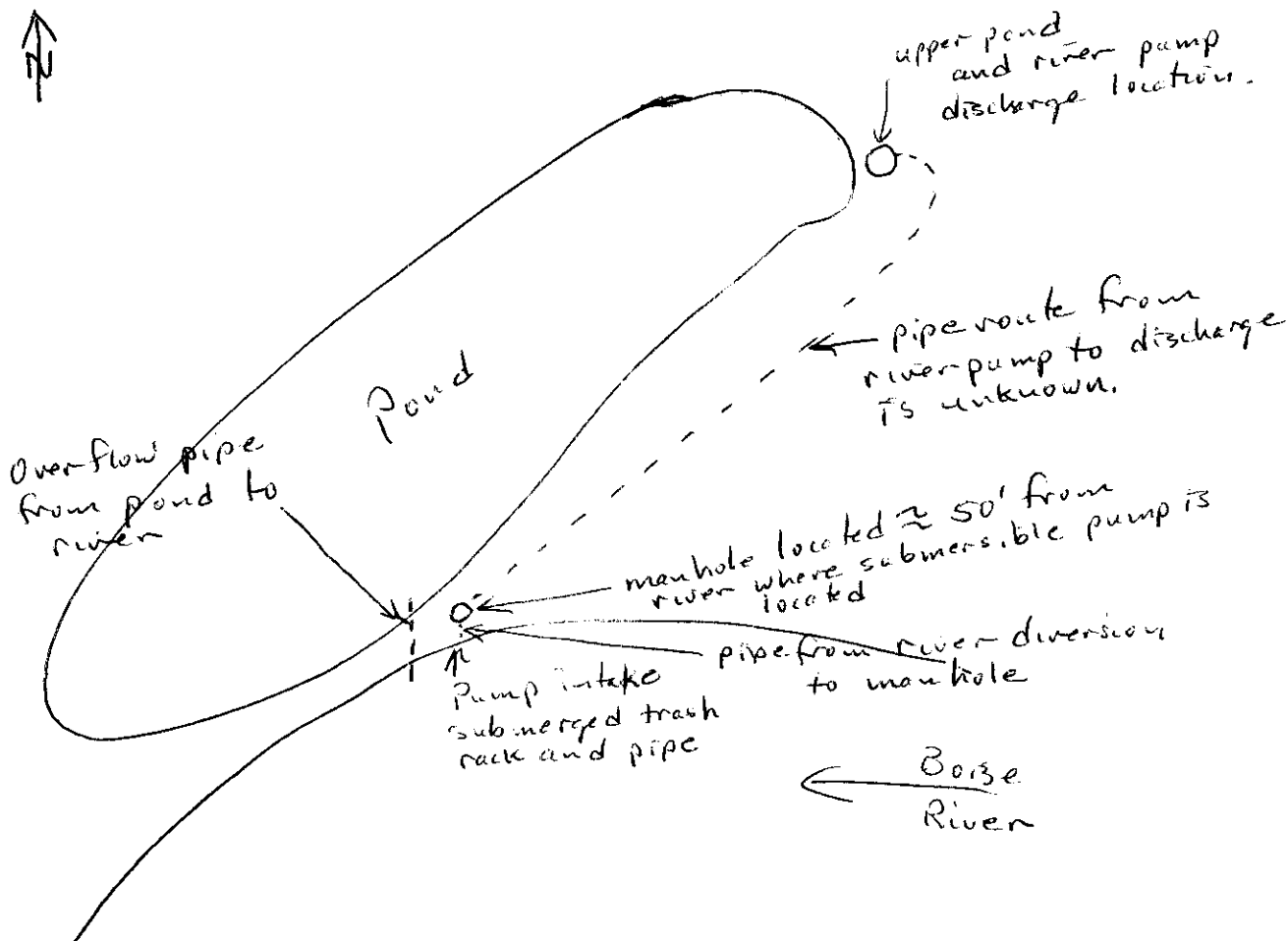


[illegible]

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size / ditch size / pipe i.d. as applicable.

See aerial photo for layout.



Scale: 1" = Not to Scale

     Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

  X   Aerial Photo Attached  
(required for irrigation of 10+ acres)

  X   Photo of Diversion and System Attached

4.

| Well or Diversion Identification No.* | Motor Make | Hp | Motor Serial No. | Pump Make | Pump Serial No. or Discharge Size |
|---------------------------------------|------------|----|------------------|-----------|-----------------------------------|
| River Diversion                       |            | 5  | SN M7959         | Berkley   | Model 6T5-275                     |
|                                       |            |    |                  |           |                                   |
|                                       |            |    |                  |           |                                   |

\*Code to correspond with No. on map and aerial photo

#### D. FLOW MEASUREMENTS

1.

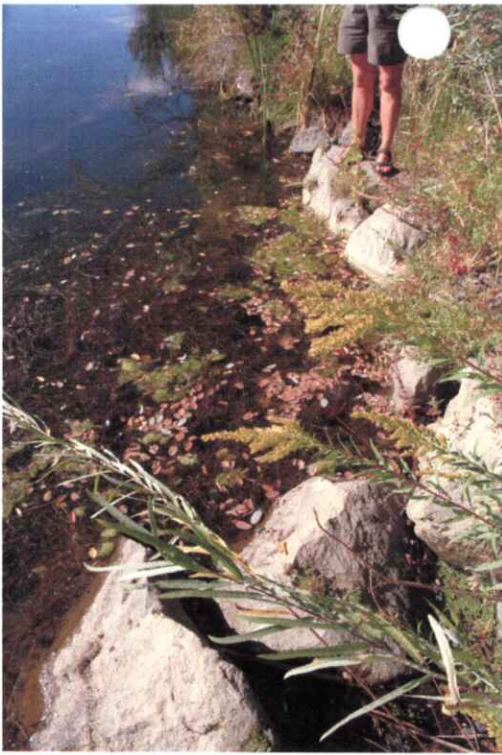
| Measurement Equipment | Type | Make | Model No. | Serial No. | Size | Calib. Date |
|-----------------------|------|------|-----------|------------|------|-------------|
| None                  |      |      |           |            |      |             |
|                       |      |      |           |            |      |             |

# Idaho Shakespeare Festival Pond



0.04 0 0.04 0.08 Miles





Above - River diversion is submerged at this location. Trash rack covered CMP to manhole where submersible pump is located.

Top Right - Discharge from pump into upper pond.



Right - Upper pond front center of photo with main pond in background.

Lower Right - Overview of main pond looking southwest. Upper pond is not visible.



2. **Measurements:** None

**E. NARRATIVE / REMARKS / COMMENTS**

This water right is a non-consumptive right to maintain the pond at the Idaho Shakespeare Festival site. Water is diverted from the Boise River through a submerged trash rack covered pipe that delivers gravity flow water to a manhole about 50 feet from the river as shown on the enclosed aerial photo. The manhole contains a 5 hp Berkley submersible pump that lifts the water through a buried pipeline that discharges into a small pond on the east side of the main pond (see photos). The small pond discharges into the large pond that is about 1.1 acres in size based upon the enclosed 2003 aerial photo.

From the large pond water may either be discharged back to the Boise River through an overflow pipe or used for irrigation. The overflow pipe is installed at an elevation that allows the pond elevation to reach about 3 feet above the summer river level. The irrigation water use is covered by water right 63-31198. The irrigation system is pressurized by a separate pump that takes water from the pond. The irrigation system was not examined as part of this field exam. At the time of the exam the irrigation system was not operating and the water being diverted into the pond was being discharged through the overflow pipe back into the Boise River.

The 5 hp Berkley pump is rated at 250 gpm with 50 feet TDH. The actual elevation difference between the river pump discharge and the level of the river is about 15 to 20 feet, depending in part on the river stage. The pump appears to be working within the 50 feet TDH of its rating and should produce about 250 gpm.

The pond is an integral part of the landscape design of the Idaho Shakespeare Festival grounds and has a walking path along its south and east sides with an observation area on the western end. A walking path is planned for the northern side of the pond in the future. The pond is maintained year around.

Have conditions of permit approval been met? X yes \_\_\_ no

F. **FLOW CALCULATIONS** \_\_\_\_\_ Additional Computation Sheets Attached  
 Measured Method: The permit does not require a measuring device and no measurement was attempted. The pump should be delivering about its rated discharge of 250 gpm.

G. **VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$  \_\_\_\_\_  
 $V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$  \_\_\_\_\_  
 $V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$  \_\_\_\_\_

2. Volume Calculations for Other Uses:

Annual volume =  $365 \times 0.11 \times 1.9835 = 79.6$  AFY

H. **RECOMMENDATIONS**

1. Recommended Amounts

| Beneficial Use    | Period of Use |              | Rate of Diversion<br>Q (cfs) | Annual Volume<br>V (afa) |
|-------------------|---------------|--------------|------------------------------|--------------------------|
|                   | From          | To           |                              |                          |
| <u>Aesthetics</u> | <u>1/1</u>    | <u>12/31</u> | <u>0.11</u>                  | <u>79.6</u>              |
| _____             | _____         | _____        | _____                        | _____                    |
| _____             | _____         | _____        | _____                        | _____                    |
| _____             | _____         | _____        | _____                        | _____                    |
| <b>Totals:</b>    |               |              | <u>0.11</u>                  | <u>79.6</u>              |

2. Recommended Amendments

☐ Change P.D. as reflected above    ☐ Add P.D. as reflected above    ☒ None  
☐ Change P.U. as reflected above    ☐ Add P.U. as reflected above    ☐ Other

I. **AUTHENTICATION**

Field Examiner's Name David B Shaw Date 9/30/05

Reviewer \_\_\_\_\_ Date \_\_\_\_\_

