

[illegible]

PLACE OF USE: AESTHETIC

Twp Rge Sec	NE				NW				SW				SE				Totals
50N 05W 3	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
							X	X									
							L 5	L 5									

PLACE OF USE: AESTHETIC STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
50N 05W 3	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
							X	X									
							L 5	L 5									

DIVERSION TO STORAGE same as AESTHETIC STORAGE

Method of Determination:

3. ☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
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N/A

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

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
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N/A

2. Measurements:

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method: SEE ATTACHED POND ANALYSIS SHEET

F. 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:**G. NARRATIVE/REMARKS/COMMENTS**

SEE ATTACHED POND ANALYSIS SHEET FOR DIMENSIONS, ANNUAL VOLUMES AND FLOW RATES.

Have conditions of permit approval been met? ☒ Yes ☐ No**H. RECOMMENDATIONS****1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DIVERSION TO STORAGE	01/01 to 12/31	0.300 CFS	
RECREATION	01/01 to 12/31	0.090 CFS	65.20 AF
RECREATION STORAGE	01/01 to 12/31		7.10 AF
AESTHETIC	01/01 to 12/31	0.090 CFS	65.20 AF
AESTHETIC STORAGE	01/01 to 12/31		7.10 AF
Totals:		0.300 CFS	72.30 AF

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 Adam Freudenil Date 8-12-2015
 Reviewer Barth E. Frankham Date 8/19/15

BACKGROUND – Avista's Falls Park Pond Water Right Application

CALCULATIONS USED FOR ESTIMATING WATER QUANTITIES FOR EACH USE:

1. Diversion to Storage: (40 gpm + 90 gpm = 130 gpm = 0.3 cfs) 0.3 cfs

2. Recreation (constant flow 365 days yr., (40 gpm pump = 0.09 cfs): 0.09 cfs
 (Est. annual use: 0.09 cfs x 1.9835)(365 days yr) = approx. 65.2 AF)

3. Recreational Storage (for Fishing): 7.1 AF
 - a. Pond size: 0.51 ac. x 7' deep = 3.57 AF = 3.6 AF
 - b. Evap.: (22,230 sq. ft. surface area)

$$\frac{1386 \text{ gpd loss} \times 365}{325,850 \text{ gal/AF}} = 1.6 \text{ AF}$$
 - c. Seepage:
$$\frac{1663 \text{ gpd} \times 365}{325,850 \text{ gal/AF}} = 1.9 \text{ AF}$$

Total AF = 7.1 AF

4. Aesthetics (used same calculation as Item #2 above): 0.09 cfs

5. Aesthetics Storage (used same calculations as Item #3 above): 7.1 AF

State of Idaho
Department of Water Resources
Water Right License
95-16549

05W

50N



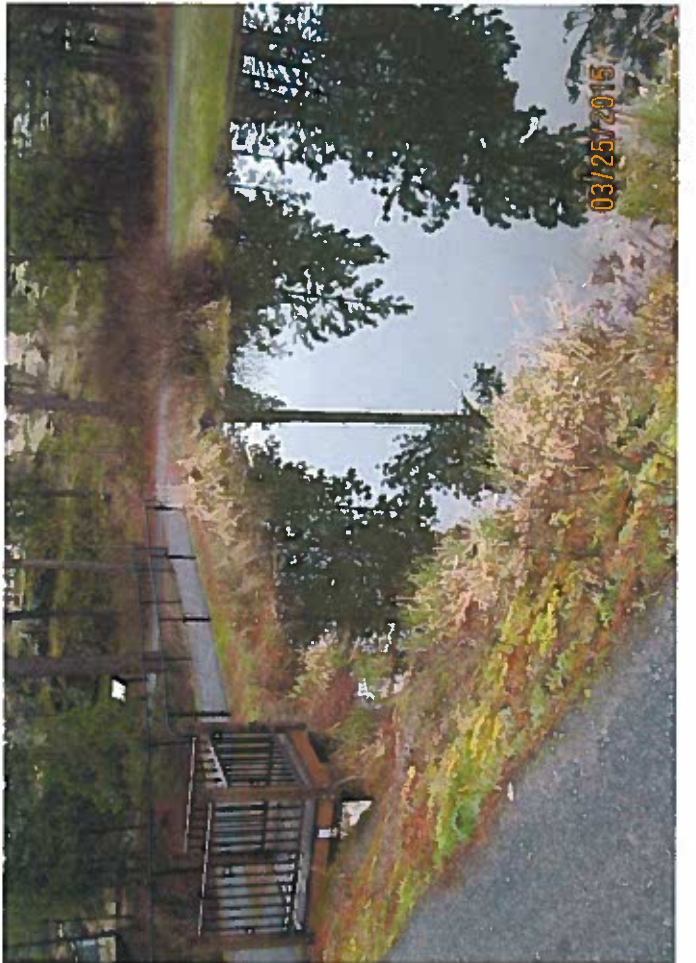
-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

0 0.015 0.03 0.06 Miles

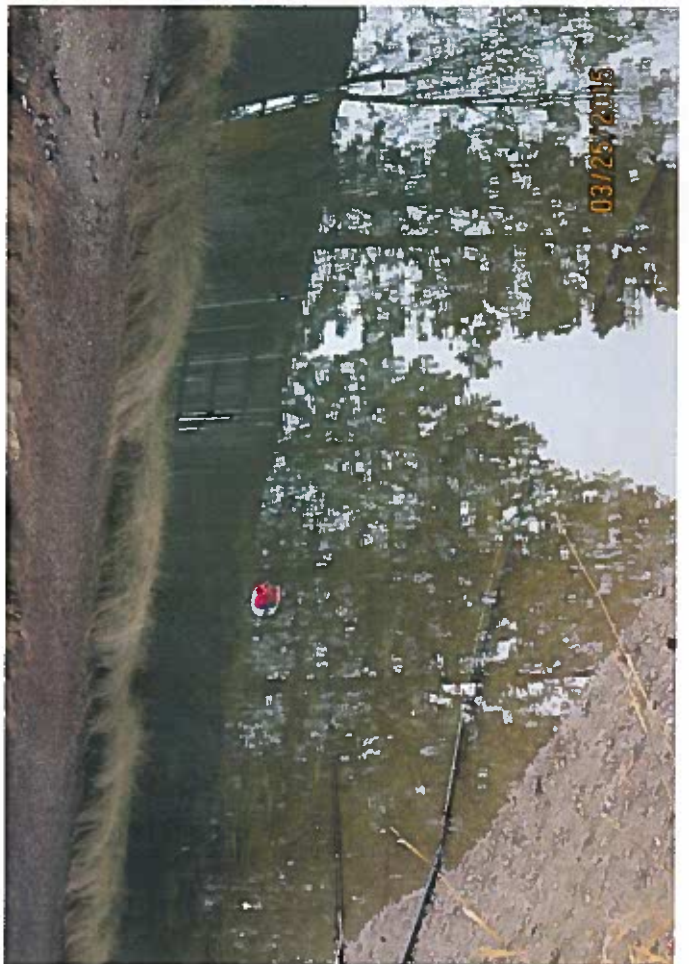




95-16549



95-16549



95-16549



95-16549

Statement of Completion
Avista Water Right Permit No. 95-16549
Falls Park Pond Project
May 16, 2014

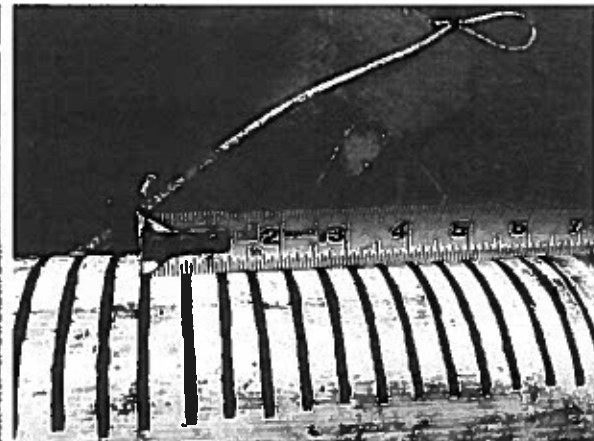
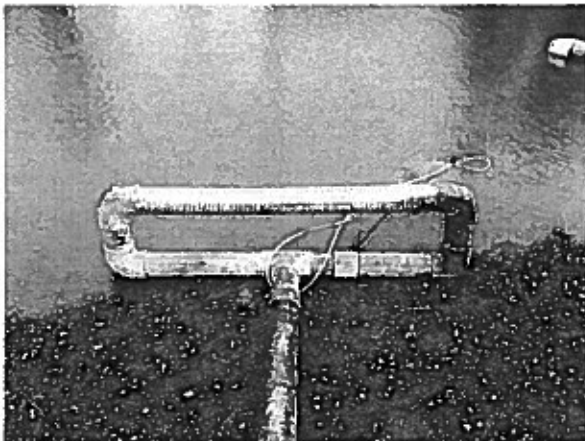
RECEIVED
MAY 19 2014
IDWR/NORTHERN

EXHIBIT A: Completion of Fish Screen Installation on Points of Diversion

Water Right Permit No. 95-16549 - Condition of Approval No. 5 states a fish screen of 0.25 inch or smaller mesh shall be installed and maintained at the point of diversion. On 4/29/14, Avista received written confirmation from Bryan Bergstrom, Parks Maintenance Supervisor for the City of Post Falls, stating that the required fish screen installation has been completed. Mr. Bergstrom also stated that they have concluded their work on the pond project at this time.

Below are photos provided of the fish screens installed in April 2014 on both intake pipes of the project. Photos were provided by Bryan Bergstrom, City of Post Falls.

INTAKE PIPE #1:



INTAKE PIPE #2:

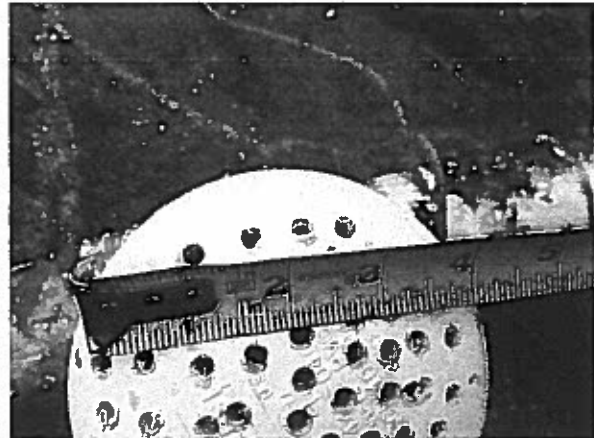
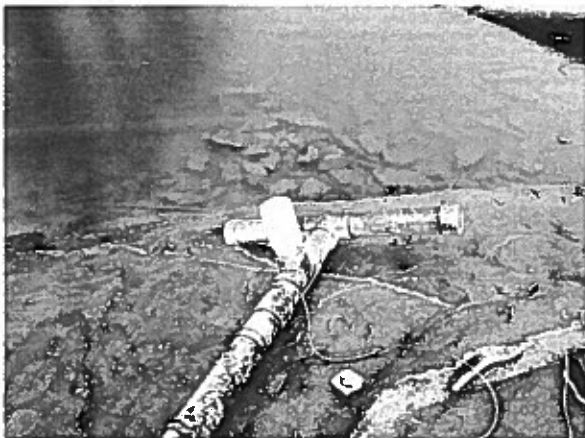


Exhibit A - Submitted by:
Linda Kiefer, Avista Corporation

BACKGROUND ON POST FALLS - FALLS PARK POND

For

Avista Water Right Application

February 26, 2013 Corrected Edition

DEVELOPMENT OF FALLS PARK & POND

The Falls Park is a city park located on the southwesterly corner of the city of Post Falls, Idaho. The park, including the pond and land north and west of the park is part of the Post Falls Hydroelectric Development owned by Avista Corporation (previously known as Washington Water Power (WWP)).

In November 1990, WWP (Avista) received approval from Federal Energy Regulatory Commission (FERC) to lease this land to the City of Post Falls (City) for the development of the Falls Park. Avista now holds a long-term lease of the park lands with the City (see Public Park/Recreation Contract Lease No. R-23864, between Avista and City of Post Falls (May, 2006)). The City's Parks Department manages the Falls Park. The Parks Dept. contact person is Brian Bergstrom, Maintenance Supervisor, phone (208) 773-8147.

During the early 1990's, the City collaborated with various community organizations, along with Avista, Idaho Fish & Game, Idaho Water Resources and other local, state and federal agencies in the planning stages for the Falls Park. On 4/1/1991, Avista received FERC approval to begin construction of the Falls Park. The park was constructed in the early 1990's, with many community volunteers and funding from multiple grants, and dedicated in 1993.

The park fish pond was completed in 1995, and dedicated to the public for the designated purpose of an accessible public family fishing pond for the handicapped and youth. The Idaho Dept. of Fish & Game stock the pond several times per year with trout. The park pond has four (4) fish platforms, one (1) pedestrian bridge and three (3) picnic shelters, all which are wheelchair accessible.

WATER SYSTEM FOR POND:

To augment natural seepage into the pond, water for the pond is pumped in from a water pump system located in the center of the Corbin Ditch Canal, part of the North Channel of the Spokane River. The river water is only used for filling and maintaining the level of the pond.

Two pumps are used in the filling operations of the pond. The first pump (1 hp) runs 24/7, 365 days per year, maintaining the pond level and to flow through the pond aerator to help maintain water quality in the pond and for fish habitat. The second pump (5 hp) is periodically used from May through October each year on an as needed basis, and is set on a timer, to help maintain water level in pond.

(NOTE: The City of Post Falls supplies water supply to the park's bathrooms and to irrigate the park lawns from city's municipal water supply system.)

Pond Info:

- CONSTRUCTION COMPLETED & YEAR DEDICATED: 1999
- POND SIZE: 22,230 sq. ft (approx. 0.51 acre in size) x 7' deep (avg. depth).
- WATER STORAGE: Approx. 3.6 AF
- INFLOW & OUTFLOW:
 - INFLOW: Water supply for the pond is from the Spokane River via the Corbin Ditch Canal, an extension of the Spokane River.
 - Two Intake Pipes: Two – 2" poly pipes begin at the center of the Canal and run underground into the center of the southeast corner of the Falls Pond. (approx. lat/long: 47°42'41"N, 116°57'3"W.)
 - OUTFLOW: The pond's outflow pipes (two 4" PVC pipes) are located near the center of the northerly line of the pond (approx. lat/long: 47°42'42"N, 116°56'59"W.) One of the 4" PVC pipes serves as the overflow for the pond. The second 4" pipe is used to drain the pond for maintenance purposes. The outflow drains back into the old spillway from the Corbin Ditch Canal, which flows back into the Spokane River.
- PUMPS & PIPES:
 - Pump #1 for Intake Pipe #1: 1 HP, pumps 40 gpm on a 24/7, 365 days per year schedule, to maintain pond level and operate aeration foundation (maintaining water quality of pond);
 - Pump #2 for Intake Pipe #2: 5 HP, pumps 90 gpm, is operated on a timer, from May through October, as needed, to help maintain water level and water quality of pond.
- AERATION FOUNTAIN:

Aeration fountain runs 24/7, 365 days per year, to maintain water quality and beautification of the pond.
- OTHER WATER SUPPLY FOR PARK:

The City of Post Falls provides municipal potable water supply to the Falls Park, for the restrooms and irrigation of the park lawns.

NOTE: For calculations used in determining the water supply needs for each use, see next page.

CALCULATIONS USED FOR ESTIMATING WATER QUANTITIES FOR EACH USE:

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For

Avista Water Right Application

February 11, 2013

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