

Ident. No. 37-22354

RECEIVED

MAY 28 2008

DEPT. OF WATER RESOURCES
SOUTHERN REGION

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

AMENDED

APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

1. Name of applicant Jean-Pierre and Connie Chesnel Phone 208-788-4570

Mailing address P.O. Box 4023 Ketchum, ID 83340

2. Source of water supply Indian Creek which is a tributary of Big Wood River

Source of water supply Big Wood River which is a tributary of Malad River

3. Location of point of diversion is Township 03N Range 18E Sec. 20, in the 1/4, SW 1/4, Govt. Lot BLAINE County; additional points of diversion, if any: 2 Hiawatha Canal Diversion

T.03N R.18E Section 33 SE 1/4 SW 1/4 (INDIAN CREEK DIVERSION) 5/29/08

4. Water will be used for the following purposes:

Amount 0.5 cfs for Div to Storage purposes from 01/01 to 12/31 (both dates inclusive)
(cfs or acre-feet per annum)

Amount 3.28 AFA for Aesthetic Storage purposes from 01/01 to 12/31 (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

5. Total quantity being appropriated is (a) 0.5 and/or (b) 3.28
cubic feet per second acre-feet per annum

6. Proposed diverting works:

a. Describe type and size of devices used to divert water from the source: Water for pond is diverted from Hiawatha Canal.

b. Height of storage dam _____ feet; active reservoir capacity _____ acre-feet; total reservoir capacity _____ acre-feet.

c. Proposed well diameter is N/A inches; proposed depth of well is N/A feet

d. Is groundwater with a temperature of greater than 85° degrees being sought? NO

e. If well is already drilled, when? N/A; Drilling firm N/A;
Well was drilled for (well owner) N/A; Driller Permit No. N/A

7. Time required for completion of works and application of water to proposed beneficial use is 5 years (minimum 1 year)

8. Description of proposed uses (if irrigation only, go to item 9):

a. Hydropower; show total feet of head and proposed capacity in kW. NA

b. Stockwatering; list number and kind of livestock. NA

c. Municipal; show name of municipality. NA

d. Domestic; show number of households. NA

e. Other; describe fully. Pond permit is for aesthetic purposes.

9. Description of place of use

- a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
- b. If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	18E	33												J					

J = Aesthetic Storage

Total number of acres to be irrigated _____

10. Describe any other water rights used for the same purposes as described above. N/A

11. a. Who owns the property at the point of diversion? Hiawatha Canal Company (easement).

b. Who owns the land to be irrigated or place of use? Applicant.

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing: Applicant is a member of Hiawatha Canal Company.

12.. Remarks: Existing pond will be used for non-consumptive aesthetic use. Portions of 37-20359 and 37-297D will be used for mitigating the evaporation. A transfer outlining mitigation has been filed with IDWR.

13. **MAP OF PROPOSED PROJECT REQUIRED** – Attach an 8 ½ "x 11" map clearly identifying the proposed point of diversion, place of use, section #, township & range. (A photocopy of a USGS 7.5 minute topographic quadrangle map is preferred.)

BE IT KNOWN that the undersigned hereby makes this application for permit to appropriate the public waters of the State of Idaho as herein set forth.

Jack L. Hagan
 Signature of Applicant (include title, if applicable.)
Limited Power of Attorney
 Signature of Applicant (include title, if applicable.)

Received by _____ Date _____ Time _____ Preliminary check by _____

Fee \$ _____ Received by _____ # _____ Date _____

Publication prepared by _____ Date _____ Published in _____

Publication approved _____ Date _____

**Chesnel, Jean-Pierre and Connie - Permit and Transfer Applications
T.03N R.18E SEC.33 SE 1/4 SW 1/4**

Brockway Engineering, PLLC.

ZL - 5/28/08

Pond area (acres)	Average depth (ft)	Pond Volume (cubic-feet)	Fill Rate (ft³s⁻¹)	Fill Rate (ft³d⁻¹)	Fill Rate (days to fill)
0.82	4	142876.8	0.5	43200	3.3

At 0.5 cfs diversion rate (diversion to aesthetics), the pond turnover time = 3.3 days. A diversion rate of 0.5 cfs was applied for so that a maximum pond residence time of 4 days could be met for the pond. Due to the ponds relatively shallow depth, a 3.3 day turn-over time will help maintain adequate dissolved oxygen (DO) concentrations. If a lower diversion rate existed, originated water would not be able to offset decomposition of detritus material and respiration of the existing periphyton and macrophyte aquatic plant communities, thus creating an unfavorable, low DO concentration environment in the pond. A 3.3 day turn-over time will also aid in prohibiting water temperatures from becoming elevated before re-entering Indian Creek.
