RECEIVED
MAY 14 2020
WATER RESOURCES
WESTERN REGION

WITHDRAWN

FORM 202 Rev 09/16

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Ident. No. 63-34408

APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

COPY

1. Name of applicant(s) Vicente J. Undurraga Perl, Katherine Z. Block Phone 503-277-0883
   Name connector (check one): ☑ and ☐ or ☐ and/or
   Mailing address 9971 N Bogus Basin Rd City Boise
   State Idaho ZIP 83702 Email vicenteup@gmail.com
2. Name of representative, if any _____ Phone _____
   Mailing address _____ City _____
   State _____ ZIP _____ Email _____
   a. ☐ Send all correspondence for this application to the representative and not to the applicant OR
      ☐ Send original correspondence to the applicant and copies to the representative.
   b. ☐ The representative may submit information for the applicant but is not authorized to sign for the applicant OR
      ☐ The representative is authorized to sign for the applicant. Attach a Power of Attorney or other documentation.
3. Source of water supply Wastewater which is a tributary of _____
4. Location of point(s) of diversion:

Twp	Rge	Sec	Govt Lot	¼	¼	¼	County	Source	Local name or tag #
05N	06W	12		SW	NW		Canyon	Wastewater	Ross Drain

5. Water will be used for the following purposes:
   Amount 0.3 CFS (cfs or acre-feet per year) for Irrigation purposes from Mar. 1 to Nov 15th (both dates inclusive)
   Amount 3 CFS (cfs or acre-feet per year) for Diversion to Storage purposes from Aug. 1 to May 1st (both dates inclusive)
   Amount 658 acre-feet (cfs or acre-feet per year) for Wildlife Storage purposes from Aug. 1 to May 1st (both dates inclusive)
   Amount 658 acre-feet (cfs or acre-feet per year) for Recreation Storage purposes from Aug. 1 to May 1st (both dates inclusive)
6. Total quantity to be appropriated is (a) 3 cubic feet per second (cfs) and/or (b) 658 acre-feet per year (af).
7. Proposed diverting works:
   a. Describe type and size of devices used to divert water from the source. 20hp centrifugal pump and 12 inch pipe
   b. Height of storage dam 6 feet; active reservoir capacity 44 acre-feet; total reservoir capacity 44 acre-feet. If the reservoir will be filled more than once each year, describe the refill plan in item 12. For dams 10 feet or more in height AND having a storage capacity of 50 acre-feet or more, submit a separate Application for Construction or Enlargement of a New or Existing Dam. Application required? ☐ Yes ☑ No
   c. Proposed well diameter is _____ inches; proposed depth of well is _____ feet.
   d. Is ground water with a temperature of greater than 85°F being sought? ☐ Yes ☑ No
   e. If well is already drilled, when? _____; drilling firm _____; well was drilled for (well owner) _____; Drilling Permit No. _____.

For Department Use

Received by LE Date 05/14/2020 Time 11:15am Preliminary check by AK
Fee $ 490 Receipted by LE Receipt No. W048269 Date 05/14/2020

8. Description of proposed uses (if irrigation only, go to item 9):
   a. Hydropower; show total feet of head and proposed capacity in kW. _____
   b. Stockwatering; list number and kind of livestock. _____
   c. Municipal; must complete and attach the Municipal Water Right Application Checklist.
   d. Domestic; show number of households _____
   e. Other; describe fully. Area shaded in maps will be irrigated to produce crops, and create wildlife habitat

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	
05N	06W	12							15										15
									WS										
									RS										

Total number of acres to be irrigated: 15

10. Describe any other water rights used for the same purposes as described above. Include water delivered by a municipality, canal company, or irrigation district. If this application is for domestic purposes, do you intend to use this water, water from another source, or both, to irrigate your lawn, garden, and/or landscaping? _____
Water from our shares of the McConnel Island ditch company can be used to irrigate part of the same areas.

11. a. Who owns the property at the point of diversion? Vicente J. Undurraga Perl, Katherine Z. Block
   b. Who owns the land to be irrigated or place of use? Vicente J. Undurraga Perl, Katherine Z. Block
   c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing: _____

12. Describe your proposal in narrative form, and provide additional explanation for any of the items above. Attach additional pages if necessary. We plan to use waste water running on the Ross drain on our property to grow crops during the early part of the year in the areas shaded on the map and then flood these fields for wildlife and recreation later in the year

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

14. **MAP OF PROPOSED PROJECT REQUIRED** - Attach an 8½" x 11" map or maps clearly identifying the proposed point of diversion, place of use, section #, township & range. The map scale shall not be less than two (2) inches equal to one (1) mile.

The information contained in this application is true to the best of my knowledge. I understand that any willful misrepresentations made in this application may result in rejection of the application or cancellation of an approval.

Vicente Undurraga Perl
Signature of Applicant

Vicente J. Undurraga Perl
Print Name (and title, if applicable)

Katherine Z. Block
Signature of Applicant

Katherine Z. Block
Print Name (and title, if applicable)

Application for Water Right

5/11/2020, 12:29:48 PM

Override 1 | Override 1 | Section | Idaho Mask

Override 1 | Counties | Township/Range

Quarter Quarter | Idaho Outline

1:4,514

0 0.03 0.06 0.11 mi

0 0.04 0.09 0.17 km

Esri, HERE, Garmin, (c) OpenStreetMap contributors, Source: Esri,

Idaho Department of Water Resources

USDA FSA, GeoEye, Maxar | Created by NRCS from 1:24,000 scale USGS topographic maps. | Idaho Department of Water Resources | USDA,Natural Resources Conservation Services | State of Oregon GEO, Esri, HERE, iPC |

Seepage Loss Calculations

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total annual seepage losses from a pond.

FILE NUMBER	xx-xxxxx
REVIEWER	Joe Agent
DATE	1/1/2000

User Input
Calculated value
Formula Explanations

INPUTS

Pond Surface Area (AC.)	11	AC.
Pond Surface Area (SQ. FT.)	479160	SQ. FT.
I used the following method to obtain my Soil Classification information:	NRCS Web Soil Survey	
My Soil Classification is	SM	
Suggested Seepage Rate (FT./DAY)	0.2000	FT./DAY

Formula: (Surface Area X Seepage Rate) X 7.48 = Gallons Per Day Loss

Convert to GPD	716823	GPD
Total Seepage Loss (AFA)	602.8	AFA

Though sand and gravel seepage rates may actually be higher, the maximum allowable rate is 0.2 ft/day, pursuant to Administrative Memo "Seepage Loss Standards for Ponds and Reservoirs."

Suggested Seepage Rates for Different Soil Types:
GW, GP, GM, GC, SW, SP and SM (silty sand, sand silt mixtures and gravel mixtures) **= 0.2 ft per day**
OL and ML (inorganic silts - very fine sands, silty, or clayey fine sands) **= 0.02 ft per day**
SC (clayey sands, sand clay mixtures) **= 0.007 ft per day**
CL (Low to medium plasticity clays) **= 0.003 ft per day**
MH, OH, PT and CH (high plasticity clays) **= 0.0003 ft per day**
LINED PONDS (liners can be chemical, fabric, or bentonite) **= 0 ft per day**
Ponds Intercepting Groundwater (excavated ponds filled by ground water) **= 0 ft per day**

PLEASE NOTE: The initial basis for the Suggested Seepage Rates in the table above is found on Page 16 of Seepage from Fish Ponds, Bulletin 599, August 1989 Alabama Agricultural experiment Station, Auburn University, Auburn University Alabama. If you don't know the soil type, please refer to the map provided at the NRCS Web Soil Survey (Tab #1) , an ArcMap Soil Classification Map (Tab #1.1), or published NRCS Soil Survey (Tab #1.2) . Use "0" if the pond fill relies on the water table.

Evaporation Loss Calculations

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the annual evaporation losses from a pond.

FILE NUMBE	xx-xxxxx
REVIEWER	Joe Agent
DATE	1/1/2000

User Input
Calculated value
Formula Explanations

The acronyms used on the Kimberly Research Center website are defined below:
P = Precipitation
ET= Evapotranspiration
P_d = Precipitation deficit
P_d =ET-P

USING THIS SPREADSHEET

Use the link below to access the Kimberly Research Center website. This website provides the Precipitation Deficit for a station most representative of the pond under examination. The Precipitation Deficit is the total amount of free water surface evaporation minus the precipitation for a given area, which gives the total amount of evaporative losses incurred by the pond. There are several weather sites that are used throughout the state. IDWR staff can find the nearest site using Arc Map. The shape file containing the sites can be found at X:/Spatial/Climate/ETIdahostations.shp.

Instructions:

1. Use the link below to navigate to ET Idaho 2012.
2. Select the station which is most representative to your pond location.
3. Click Submit Query.
4. Under "Land Covers with Evapotranspiration Estimates," select "Open Water - Shallow Systems (ponds, streams)" or "Open Water - small stock ponds" depending on the pond size.
5. Click the link to "Precipitation Deficit."
6. Reference and copy (ctrl + C) the first subheading "Mean" values.
7. Click the "Paste Values from ET Idaho" button. The table will automatically enter a zero (0) for any negative precipitation deficit values.

Found at: http://data.kimberly.uidaho.edu/ETIdaho/

Precipitation Deficit

Station: Parma Exp. Stn. (NWS -- USC00106844)

Month	mm/day[1]	*Days per month*	mm/Month
Jan	-0.64	31	0.00
Feb	0.08	28	2.24
March	0.91	31	28.21
April	2.06	30	61.80
May	2.55	31	0.00
June	3.38	30	0.00
July	4.10	31	0.00
August	3.61	31	111.91
September	2.46	30	73.80
October	1.20	31	37.20
November	-0.15	30	0.00
December	-0.66	31	0.00

Total mm/year =	315.16

PLEASE NOTE: The seasonal average for precipitation deficit should not be used for calculations because precipitation often exceeds evaporation during wetter months of the year. If the pond is kept full, excess precipitation during wetter months does not serve to refill the pond during drier months.

For example, see Sandpoint KSPT (NWS -- 108137), the annual precipitation deficit is -106 mm. However, April through September have positive precipitation deficit values. To properly estimate the annual volume of water necessary to refill a pond due to evaporation losses, the table will automatically enter a zero (0) for each month that the precipitation value is reported as a negative value.

As described above, precipitation offsets evaporation in winter months, so the net effect is that wintertime precipitation deficit is usually zero.

[(mm/yr) ÷ (convert to feet)] X (Surface area of pond, in acres) = Evaporation Loss in Acre Feet

(315.16 ÷ 304.8) X 11.00 = 11.4 **AFA**

Total Storage Calculations

FILE NUMBER	xx-xxxxx
REVIEWER	Joe Agent
DATE	1/1/2000

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total seepage, evaporation and fill capacity required for a pond.

User Input
Calculated value
Formula Explanations

Surface Area (AC.)	11	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	4	"Average Pond Depth" depicts the actual depth of the pond either measured or estimated. Note: If you know the maximum depth and not the average depth, the Field Examiner's Handbook suggests multiplying the maximum depth by 0.4 to get the average depth, or you can use any method that seems reasonable to attain average depth.
Pond Capacity (AF)	44	Pond Capacity is calculated by multiplying the Pond Surface Area by the Average Pond Depth. If you know the capacity, divide the capacity by surface area and enter the average pond depth in the space above. Note: If pond capacity is determined using a method shown on the "Pond Capacity" sheet, the user may need to modify the value of "Pond Capacity" (cell B9) manually. Note that if the value is modified manually, the formula will be altered for future use.
Multiple Fill Volume Above Initial Fill to Fulfill From Storage Needs- "Multiple Fills" (AF)	0	The "Multiple Fill Volume Above Initial Fill" is the acre-feet of water required to meet a *from storage* component if the *from storage* component exceeds a one time fill. This section should not include the amount of water needed to fill the pond initially or the amount of water needed to maintain the pond level due to evaporation or seepage. For example: if a pond has a capacity of 5 acre feet and 2.5 acre feet of seepage and evaporation, but the pond is used for irrigation that requires 10 acre feet of from storage for the irrigation use, then you would insert 5 acre feet into this location (10 acre feet needed - 5 acre feet from the initial fill = 5 acre feet of additional storage needed). Note: You must have a "From Storage" component exceeding the initial fill on the permit to include a volume in this space.
Estimated Seepage Loss (AF)	602.8	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	11.4	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	658.1	The "Total Volume Required" is calculated by adding the Pond Capacity, Multiple Fills, Seepage Loss, and Evaporation Loss amounts to determine the total amount of storage required.

Flow Rate into Pond (CFS)	3.00	The "Flow Rate into Pond" depicts the actual flow, either measured or estimated, into the pond. For offstream facilities, this will be equivalent to "diversion to storage" rate.
Highest Daily Evaporation Rate From Evaporation Tab. (mm/Day)	4.10	This number is carried over from the "Evaporation Loss" sheet. It is the highest recorded number in the "Precipitation Deficit Table".
Required Daily Maintenance Volume (AF/Day)	1.80	"Required Daily Maintenance Volume" is the maximum volume of water needed on any given day during the year to maintain pond volume. It is calculated by adding the highest daily evaporation loss to the average daily seepage loss in acre feet. The average daily seepage loss is calculated by dividing the "Estimated Seepage Loss" by 365 days. This is acceptable, since the seepage rate shouldn't vary throughout the season unless the pond completely freezes over during the winter months. The highest daily evaporation loss is calculated by dividing the Highest Daily Evaporation Rate by the 304.8 conversion factor and multiplying this number by the pond surface area to attain a combined daily acre feet requirement.
Minimum Maintenance Flow (CFS)	0.91	The "Minimum Maintenance Flow" is the minimum amount of flow required to maintain the level of the pond. This number is determined by dividing the "Maximum Required Daily Maintenance Volume" by 1.9835. This flow can be used to determine if the flow rate into the pond is adequate to maintain the pond level.
Days Required to Fill the Pond	11	The "Days Required to Fill the Pond" is calculated by dividing the "Pond Capacity" by the "Flow Rate" minus "Minimum Maintenance Flow" multiplied by 1.9835. This section will assist you in determining if the flow rate being diverted to the pond is adequate to fill the pond while maintaining the pond level. The length of time to fill the pond will help determine if the flow rate is adequate for the size of pond being proposed. If this number is *approximately* 6 months (180 days) or more, the reviewer should have a discussion with the applicant to make sure he/she understands that it will take a significant length of time to fill the pond.
Days Required to Fill the Pond at 13,000 Gallons per Day	-25	Some water users may want to fill a pond under the 13,000 gallons per day domestic exemption. The "Days Required to Fill the Pond at 13,000 Gallons per Day" is calculated by converting the "Pond Capacity" and the "Required Daily Maintenance Volume" to gallons. The "Pond Capacity" is then divided by 13,000 gallons minus the "Required Daily Maintenance Volume" in gallons to determine the number of days to fill pond. If this number is *approximately* 6 months (180 days) or more, the reviewer should have a discussion with the applicant to make sure he/she understands that it will take a significant length of time to fill the pond. Negative values indicate that the supply of 13,000 gallons per day is not enough volume to overcome the required daily maintenance volume; the pond will never fill.

WITHDRAWAL

OF

APPLICATION FOR PERMIT

I/We, VICENTE J. UNDURRAGA PERL and KATHERINE Z. BLOCK,
(Applicant's Printed Name) (Applicant's Printed Name)

_____ and _____,
(Applicant's Printed Name) (Applicant's Printed Name)

hereby withdraw our Application for Permit to Appropriate the Public Waters of the State of Idaho, No. 63-34908.

Signed this 23rd day of SEPTEMBER, 2020.

Vicente Undurraga Perl
(Signature/Title of Applicant)

Katherine Z. Block
(Signature/Title of Applicant)

_____
(Signature/Title of Applicant)

_____
(Signature/Title of Applicant)

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region • 2735 Airport Way • Boise, Idaho 83705-5082
Phone: (208) 334-2190 • Fax: (208) 334-2348 • Website: www.idwr.idaho.gov

BRAD LITTLE
Governor

GARY SPACKMAN
Director

September 25, 2020

VICENTE J UNDURRAGA PEARL
KATHRINE Z BLOCK
9971 N BOGUS BASIN RD
BOISE ID 83702

Re: Withdrawal of Application for Permit No: 63-34908

Dear Applicants:

The Department has received your recent withdrawal of the above referenced application. For your convenience a copy of the withdrawal and application are enclosed.

Please feel free to contact our office at 208-334-2190 if you have additional questions in this matter. Also, more information about water rights and other matters administered by this agency is available on the Internet at www.idwr.idaho.gov.

Sincerely,

Anna Kaiser
Water Resource Agent
Western Regional Office

Enclosures

CC: CHRIS BROMLEY
380 S 4TH ST STE 103
BOISE ID 83702

State of Idaho
Department of Water Resources
2735 Airport Way
Boise ID 83705-5082
Attn: Anna Kaiser

July 20, 2020

Dear Ms. Kaiser,

I am writing this letter to request an additional 6 months to continue to work on our application, Identification number 63-34908. We have retained McHugh Bromley Attorneys at Law, PLLC as legal counsel to assist us with this process.

Thank you for your consideration,

Vicente Undurraga Perl
7/20/2020
9971 N Bogus Basin Rd
Boise ID 83702

Katherine Block

McConnel Island Ditch Company, Ltd.
P. O. Box 729
Parma, ID 83660
(208)722-5044

July 14, 2020

SW Idaho Department of Water Resources
2735 W. Airport Way
Boise, ID 83705

Dear Ms. Anna Kiser:

Vicente Undurraga Perl has requested that we write a letter to you regarding his request for a Water Right in the Ross Drain.

The Board of Directors of the McConnel Island Ditch Company, Ltd. met this morning to discuss Mr. Undurraga's request for a Water Right in the Ross Drain and have determined that Mr. Undurraga really does not need a Water Right in the Ross Drain in order to irrigate his farm land. Mr. Undurraga has 26 shares in the McConnel Island Ditch Company, Ltd. The McConnel Island Ditch Company sends irrigation water through the Hedges Lateral Ditch where Mr. Undurraga can access his 26 shares of water for the purpose of irrigating his crops.

Mr. Undurraga may contact Craig Taylor, Ditch Rider, for the McConnel Island Ditch Company, and he will explain to Mr. Undurraga how to access his irrigation water.

If you need any further information from McConnel Island Ditch Co. please feel free to contact us at the above letterhead address or call the above telephone number.

Sincerely,

Sheila Seeman

Sheila Seeman
Secretary-Treasurer

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region • 2735 Airport Way • Boise, Idaho 83705-5082
Phone: (208) 334-2190 • Fax: (208) 334-2348 • Website: www.idwr.idaho.gov

BRAD LITTLE
Governor

GARY SPACKMAN
Director

6/11/2020

VICENTE J UNDURRAGA PEARL
KATHERINE Z BLOCK
9971 N BOGUS BASIN RD
BOISE ID 83702

COPY

Re: Application for Permit

Dear Applicant:

You recently filed a water right application with the Idaho Department of Water Resources (Department) proposing to divert waste water for irrigation, diversion to storage, wildlife storage, and recreation storage. IDWR must determine if the water you wish to appropriate is waste water available for appropriation or whether it is "live" water under control of an irrigation delivery organization to satisfy downstream users. The irrigation organization in your area appears to be McConnell Island Ditch Co.

The waste water status in your area can be determined by providing written consent from the correct irrigation delivery organization confirming if the water does nor does not remain under its control for other users. Also, please provide written confirmation of a right-of-way to use the waste ditch or waste drain if that conveyance is owned by the organization or by some other person or entity.

The Department also needs clarification on a discrepancy between the acreage amount provided under part 9 on your application and the acreage outlined on the included map. The table under part 9 suggests you intend to irrigate 15 acres of land. The map only shows 11.3 acres outlined. With this letter, I enclosed your originally submitted application for permit and map. Please adjust the table under part 9 and/or the place of use outlined on the map so the acres irrigated are consistent.

Please provide the requested information within sixty (60) days. You may request up to six months additional time if necessary. You may withdraw the application by returning the enclosed withdrawal form if you prefer. The application will be voided without a timely written response. Refunds are not issued for voided applications.

IDWR forms and other information are available on the Internet at www.idwr.idaho.gov. Please contact me at 208-334-2190 or email me at anna.kaiser@idwr.idaho.gov if you have any questions. Thank you for your attention to these matters.

Sincerely,

Anna Kaiser
Water Resource Agent

Enclosures