

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 98-7797
Exam Date: 06/07/2001

1. Current Owner:
DELORES BAKER RUTH HCR 61 BOX 208 BONNERS FERRY ID 83805
2. Accompanied by: Claire Flory
Phone No: 208-267-2498
Address: 8057 Meadow Creek Rd. Bonners Ferry ID 83805
Relationship to permit Holder: Current property owner

3. **SOURCE:**
SPRING

Tributary
MEADOW CREEK

Method of Determination: Arcmap and DRG

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Yes, no overlap concerns

Water Right No.	Source	Purpose of Use	Basis
98-4302	Spring	Domestic	Statutory Claim
98-7796	Spring	Domestic & Recreation	License

Comments: _____

2. Other water rights with the same point-of-diversion: None

Water Right No.	Source	Purpose of Use	Basis

Comments: _____

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**

SPRING SE¼ SE¼ NE¼, Sec. 16, Twp 63N, Rge 02E, B.M. BOUNDARY County
SPRING SW¼ SE¼ NE¼, Sec. 16, Twp 63N, Rge 02E, B.M. BOUNDARY County

Method of Determination: Maps and GPS. POD's located at

Pond 2 spring: -116° 12.103, 48° 48.786

Pond 4 spring: -116° 12.155, 48° 48.767

PLACE OF USE: IRRIGATION STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
63N	02E	16				X													

PLACE OF USE: IRRIGATION FROM STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
63N	02E	16				0.5													0.5

Total Acres: 0.5

PLACE OF USE: RECREATION STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
63N	02E	16				X													

Method of Determination: Arcmap and Google Earth.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

☒ X 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.

☒ X☒ X Aerial Photo Attached (required for irrigation of 10+ acres).☒ X☒ X Photo of Diversion and System Attached☒ X

4.

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

D. FLOW MEASUREMENTS

1.

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

2. Measurements:

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: N/A

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: Applicant applied for 1 acre-foot of water for the irrigation of 0.5 acres which is smaller than the standard rate given for half an acre.

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$

2. Volume Calculations for Other Uses: See attached pond analysis sheets

G. NARRATIVE/REMARKS/COMMENTS

Northern Region was tasked with licensing permits that had been examined during the late 1990's and early 2000's. This file required a 2nd field exam to try and verify the place of use and annual volume. The original field exam was performed on 6/7/2001 and was conducted by Wayne Baldwin.

The 2nd field exam was performed on 7/27/2019 with current property owner Claire Flory. The permit is in the name of Delores Baker Ruth and the current property owner was advised she could file a change in ownership. The new field exam showed 5 ponds that were being fed by two springs. In my field exam maps, I have labeled the ponds 1-5 for reference in this ^{write} right up as well as the 5 pond analysis sheets. The two ponds where springs were located were in ponds 2 and 4. From those ponds, water flowed into other ponds via ditches and culverts. Overflow water from ponds 3 and 5 flowed into Meadow Creek. The surface area of each pond was traced out using Arcmap during licensing and are as follows.

- Pond 1 – Surface area of 0.5 acres and maximum depth of 10 feet
- Pond 2 – Surface area of 0.3 acres and maximum depth of 8 feet
- Pond 3 – Surface area of 0.2 acres and maximum depth of 12 feet
- Pond 4 – Surface area of 0.1 acres and maximum depth of 6 feet
- Pond 5 – Surface area of 0.2 acres and maximum depth of 10 feet

After all data was entered into pond analysis tool it was determined the total annual storage for all 5 ponds was equal to 7.8 acre feet. The total storage in the ponds was equal to 5.0 acre-feet with 2.8 acre-feet for seepage and evaporation. The original field exam showed a pump and irrigation occurring from pond 2. The current owner was not irrigating from the pond, but there was irrigation occurring from the pond during the permit and original field exam. The permit was issued for half an acre of irrigation equaling 1.0 acre-feet of water. The license will be issued with a half-acre of irrigation and 1.0 acre-feet of irrigation storage and from storage. The overall annual volume on the license will be 8.8 acre-feet.

There were some changes made from the permit to the license. The permit identified springs that were tributary to Meadow Creek and identified two sources. Mrs. Flory said as far as she knew there were just two springs in the bottom of ponds 2 and 4. The source "springs" is no longer an acceptable source and because there are only two springs, the source will be changed to spring. The season of use for irrigation will also be changed to the correct season of 4/15 to 10/31. The conditions on permit will be removed and modified and additional conditions will be added. Condition R66 will be changed to condition R58 as irrigation from storage doesn't receive a diversion rate. The minimum stream flow condition will be changed to condition 227 to properly identify the water right and gaging station to monitor flow. Conditions 259 and 220 will be added to describe the storage, from storage, surface area of the ponds. Condition 004 will be added in case of future subdivision of property.

There are two other water rights located in the same 40 acre tract that are in the name of the current land owner Flory. 98-4302 is a statutory claim for domestic use from a spring located on Forest Service property. There are no overlap concerns

with this domestic use. Water right 98-7796 describes a spring used for domestic and recreation storage. It is my belief after reviewing the backfile, that this right was identified and licensed in the incorrect 40 acre tract and should belong to the property to the SE of the Flory property. If you look at the field exam map and application map, it shows the cabin being located near where Wall Creek flows into Meadow Creek. I believe 98-7796 is actually located in the NESE and NWSE and could be cleaned up if an adjudication occurs in that basin. There are no overlap concerns with these two rights.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
IRRIGATION STORAGE	1/01 to 12/31		1.0 AF
IRRIGATION FROM STORAGE	04/15 to 10/31		1.0 AF
RECREATION STORAGE	1/01 to 12/31		7.8 AF

Totals: 0.00 CFS 9.8 AF

2. Recommended Amendments

 Change P.D. as reflected above Add P.D. as reflected above X None

 Change P.U. as reflected above Add P.U. as reflected above X None

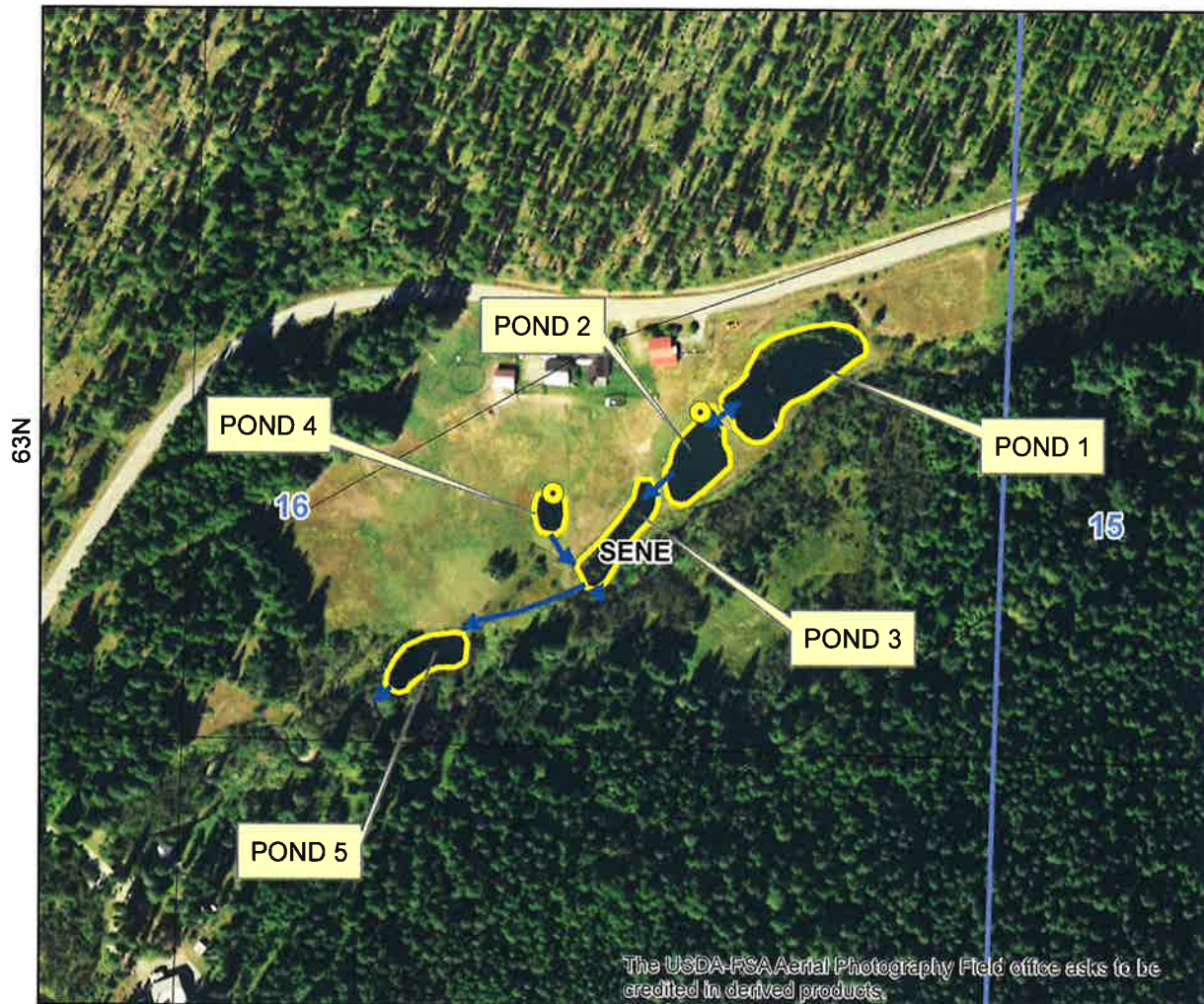
I. AUTHENTICATION Adam Frederick - Water Resource Agent, Senior

Field Examiner's Name Adam Frederick Date 3/12/2019
 Reviewer Douglas Jones P.E. Date 3/19/2019

State of Idaho
Department of Water Resources
Attachment to Field Exam
98-7797

RECREATION STORAGE / SYSTEM DIAGRAM

02E



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

0 0.035 0.07 0.14 Miles



State of Idaho
Department of Water Resources
Attachment to Field Exam
98-7797

IRRIGATION STORAGE / SYSTEM DIAGRAM

02E



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

0 0.035 0.07 0.14 Miles



State of Idaho
Department of Water Resources
Attachment to Field Exam
98-7797

IRRIGATION FROM STORAGE / SYSTEM DIAGRAM



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

0 0.035 0.07 0.14 Miles



Total Storage Calculations (Pond 1)

FILE NUMBER	98-7797
REVIEWER	Adam Frederick
DATE	3/7/2019

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.)	0.5	"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)	2.0	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 <i>from storage</i> component if the <i>from storage</i> 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)	0.5	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	0.5	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	3.1	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.

Total Storage Calculations (Pond 2)

FILE NUMBER	98-7797
REVIEWER	Adam Frederick
DATE	3/7/2019

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.)	0.3	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	3.2	"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)	1.0	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 <i>from storage</i> component if the <i>from storage</i> 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)	0.3	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	0.3	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	1.6	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.

Total Storage Calculations (Pond 3)

FILE NUMBER	98-7797
REVIEWER	Adam Frederick
DATE	3/7/2019

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.)	0.2	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	4.8	"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)	1.0	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 <i>from storage</i> component if the <i>from storage</i> 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 " <u>From Storage</u> " component exceeding the initial fill on the permit to include a volume in this space.
Estimated Seepage Loss (AF)	0.2	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	0.2	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	1.4	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.

Total Storage Calculations (Pond 4)

FILE NUMBER	98-7797
REVIEWER	Adam Frederick
DATE	3/7/2019

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.)	0.1	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	2.4	"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)	0.2	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 <i>from storage</i> component if the <i>from storage</i> 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)	0.1	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	0.1	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	0.5	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.

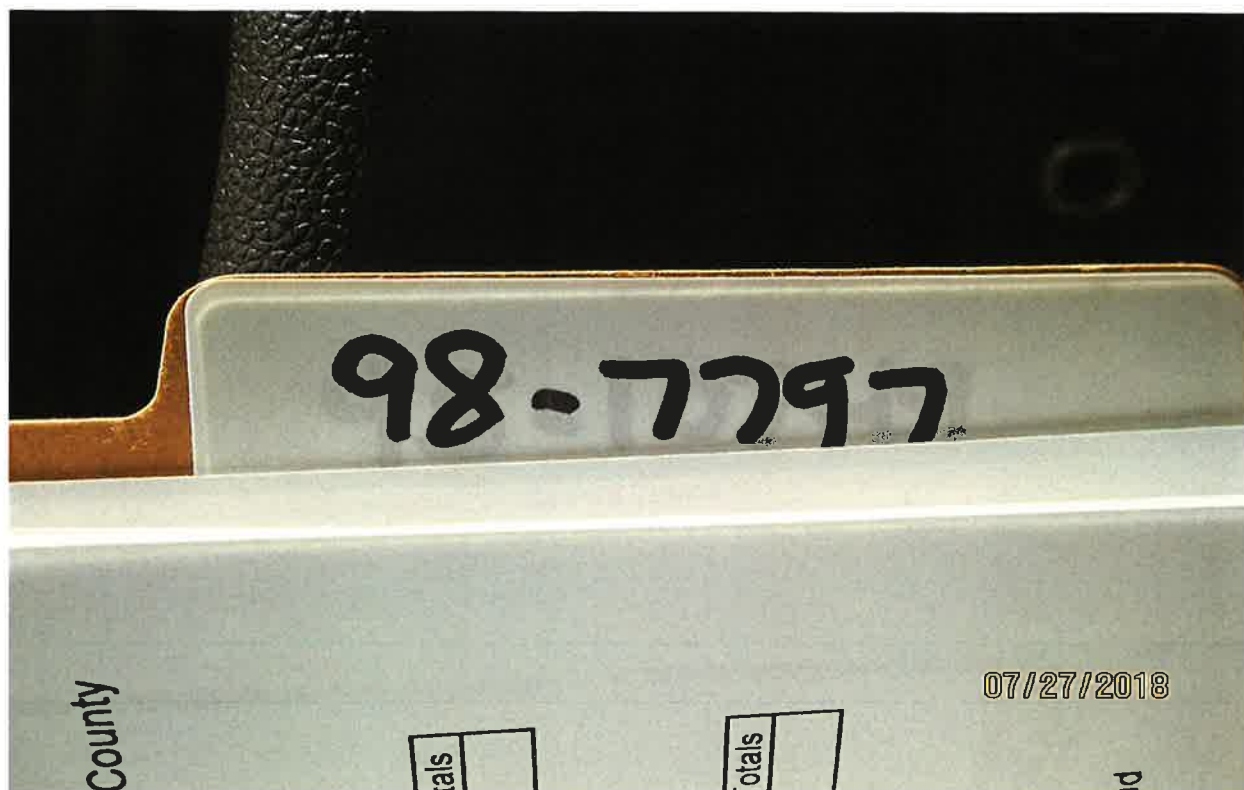
Total Storage Calculations (Pond 5)

FILE NUMBER	98-7797
REVIEWER	Adam Frederick
DATE	3/7/2019

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.)	0.2	"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)	0.8	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 <i>from storage</i> component if the <i>from storage</i> 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 " <u>From Storage</u> " component exceeding the initial fill on the permit to include a volume in this space.
Estimated Seepage Loss (AF)	0.2	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	0.2	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	1.2	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.



Pond 1 storage place of use.



Ditch connecting pond 1 & 2.



Pond 2 storage place of use.



Pond 2 storage place of use.



Pond 3 storage place of use.



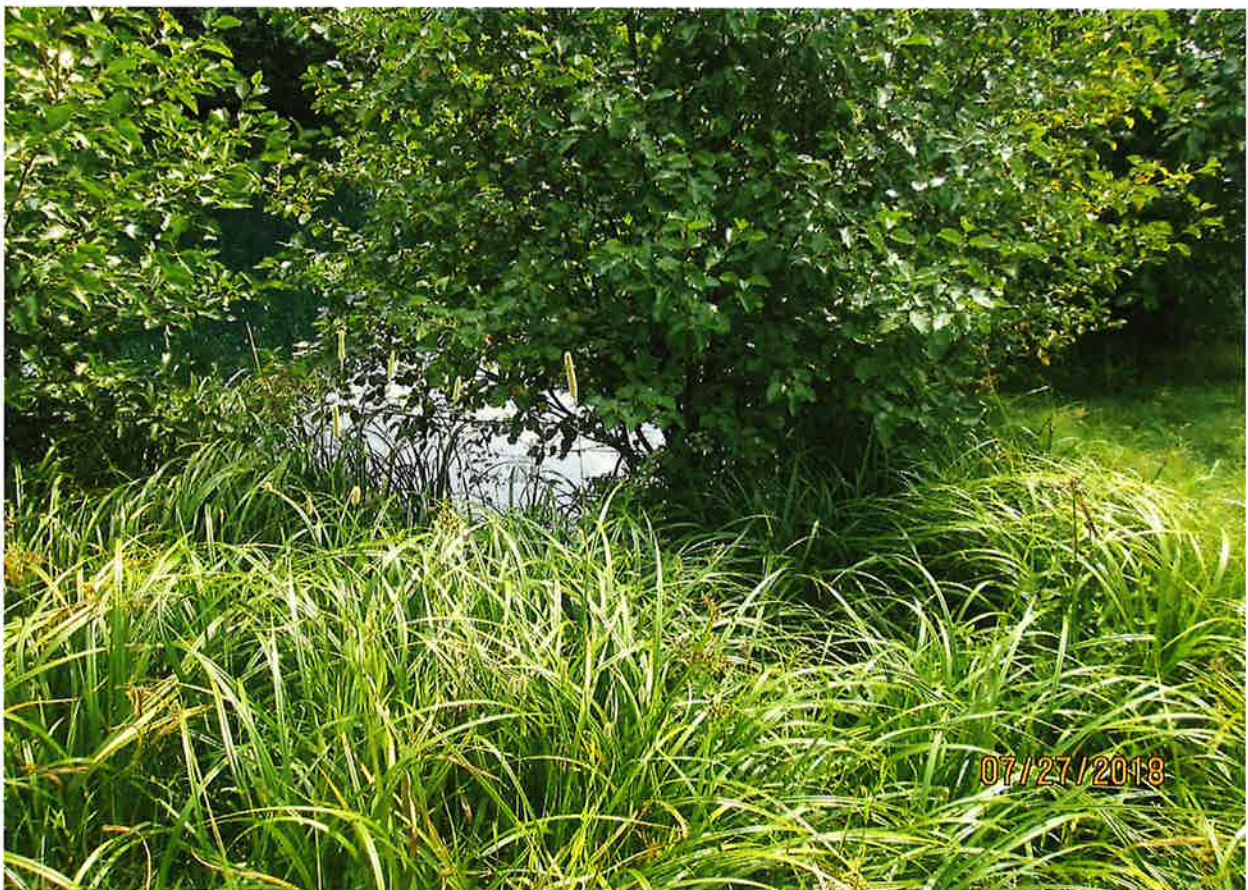
Pond 3 storage place of use.



Pond 2 storage place of use.



Overflow ditch from pond 2 into pond 3.



Exit from pond 3 to pond 5.



Pond 5 storage place of use.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
7600 N. Mineral Drive, Suite 100
Coeur d'Alene, Idaho 83815
Return Service Requested

RECEIVED
JUL 16 2018



IDWR / NORTH
DELORES BAKER RUTH
HCR 61 BOX 208
BONNER

RETURN TO SENDER
NO SUCH NUMBER
UNABLE TO FORWARD

000058343-10263



State of Idaho

DEPARTMENT OF WATER RESOURCES

Northern Region • 7600 N. Mineral Drive, Suite 100 • Coeur d'Alene, Idaho 83815-7763
Phone: (208) 762-2800 • Fax: (208) 762-2819 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

July 11, 2018

DELORES BAKER RUTH
HCR 61 BOX 208
BONNERS FERRY ID 83805

RE: Additional Information Request for Permit 98-7797

Dear Permit Holder(s):

On April 12, 2000 you filed an application for permit to appropriate water from two springs for irrigation storage, irrigation from storage, and recreation storage uses in Section 16, Township 63 North, Range 2 East. The application was approved and water right permit 98-7797 was issued on December 7, 2000. On January 10, 2001 you filed a proof of beneficial use statement claiming that you developed the irrigation storage, irrigation from storage, and recreation storage uses under water right permit 98-7797.

I am now trying to verify the water use under 98-7797, and license this water right permit. I have attached a copy of the permit and the map supplied by you for this water use. It appears from the map, that this property is now owned by the Estate of Douglas A Flory. A copy of this letter will also be sent to the Estate of Douglas A Flory. If the Estate of Douglas A Flory is the current owner of the property, you can assign the water right into the estates name, and I will work through them to license this water right.

You can request that IDWR personnel go into the field to collect this information accompanied by a member of your staff/organization/family. For this to occur, please contact me with the name, telephone number, and email of your representative and the representative must be available to be contacted and for scheduling of the required visits within thirty (30) days. IDWR must also receive the contact information of your representative in a timely manner.

If I do not receive the requested information from you within thirty (30) days, I could take action to void your permit under the provision of Section 42-219(8) of the Idaho Code. If you agree that no beneficial use of water occurred under the permit listed, you can shorten the voiding process by completing the enclosed relinquishment form for each permit affected and returning it to IDWR.

Should you have any questions, please contact me at 208-762-2800.

Respectfully,

Adam Frederick
Senior Water Resource Agent
Email: adam.frederick@idwr.idaho.gov

Enclosure(s): Permit 98-7797
Map of property
Map of Property Showing Tax Lot Ownership
Assignment of Permit form
Relinquishment Form

Cc: Estate of Douglas A Flory