

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-09245
Exam Date: 10/3/2016

1. Current Owner:
MICHAEL G GILCHRIST 281 WILLOW BAY RD PRIEST RIVER ID 83856
And
MARY E GILCHRIST 281 WILLOW BAY RD PRIEST RIVER ID 83856
2. Accompanied by: Michael Gilchrist

3. **SOURCE:**
PEND OREILLE RIVER

TRIBUTARY:
COLUMBIA RIVER

B. OVERLAP REVIEW

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

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

PEND OREILLE RIVER L4 (SE¼SE¼) Sec. 36, Twp 56N, Rge 04W, B.M. BONNER County

Method of Determination: GPS and maps. POD location 116° 45.845, 48° 09.274

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
56N	04W	36																1.0 L 4	1.0

Total Acres: 1

Method of Determination: Google Earth and Arc map.

3.

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

X Indicate weir size/pipe as applicable.X 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 Aerial Photo Attached (required for irrigation of 10+ acres).X Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
	UNKNOWN	1			

*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

2. Measurements: N/A

E. FLOW CALCULATIONS

Measured Method: UNABLE TO PERFORM FLOW MEASUREMENT BECAUSE SYSTEM WAS WINTERIZED. MEASUREMENT OF DIVERSION RATE COVERED UNDER IDAPA RULES 37.03.02.035.01.r. _____ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1 \text{ AC} \times 3 \text{ AF} = 3 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \times 214 \times 1.9835 = 12.7 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 3 \text{ AF}$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

Field exam with Mr. Gilchrist showed a system that had already been winterized at time of exam. 1.5 inch poly line into river with a 1 hp pump running the system at an unknown psi. Water was pumped from river to small pump house adjacent to river where a pressure tank was located. The pressure tank would assist in getting water across property for garden, lawn, and tree irrigation. There was a small area next to dock and river that was irrigated with hose and sprinklers from frost free hydrants. Irrigation around house and driveway was done the same way. Because the system had been winterized and total acreage is 1 acre, measurement of diversion rate is covered under IDAPA Rules 37.03.02.035.01.r. License will issued for 0.03 cfs with annual volume of 3.0 acre feet.

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>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	04/01 to 10/31	0.03 CFS	3.0 AF
<u>Totals:</u>		0.030 CFS	3.00 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

Field Examiner's Name Adam Funderburk Date 1-31-2017

Reviewer Morgan Case Date 2/27/2017

State of Idaho
Department of Water Resources
Attachment to Field Exam
96-9245

IRRIGATION



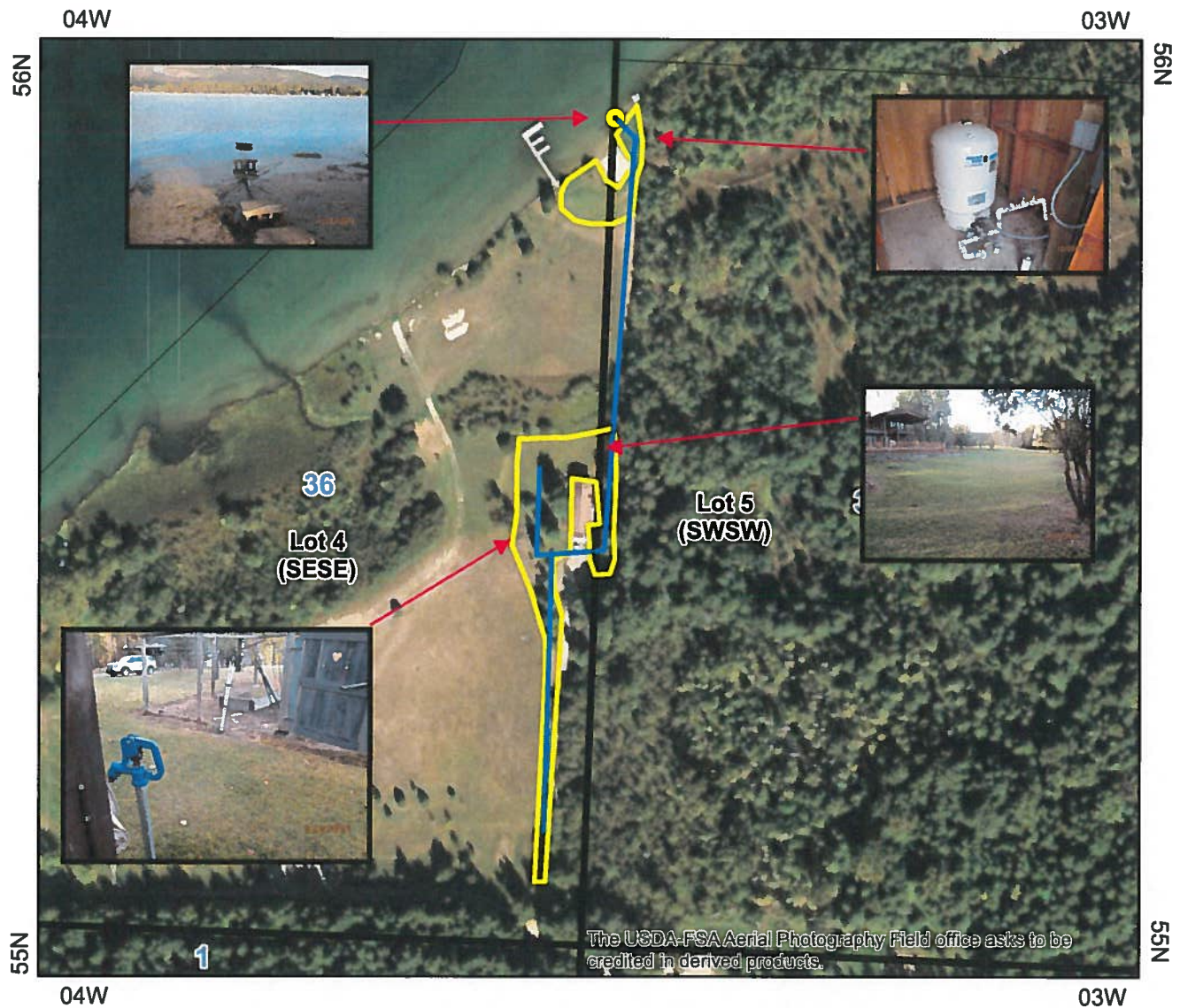
0 0.04 0.08 0.16 Miles

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



State of Idaho
Department of Water Resources
Attachment to Field Exam
96-9245

SYSTEM DIAGRAM



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

0 0.03 0.06 0.12 Miles



MEMORANDUM

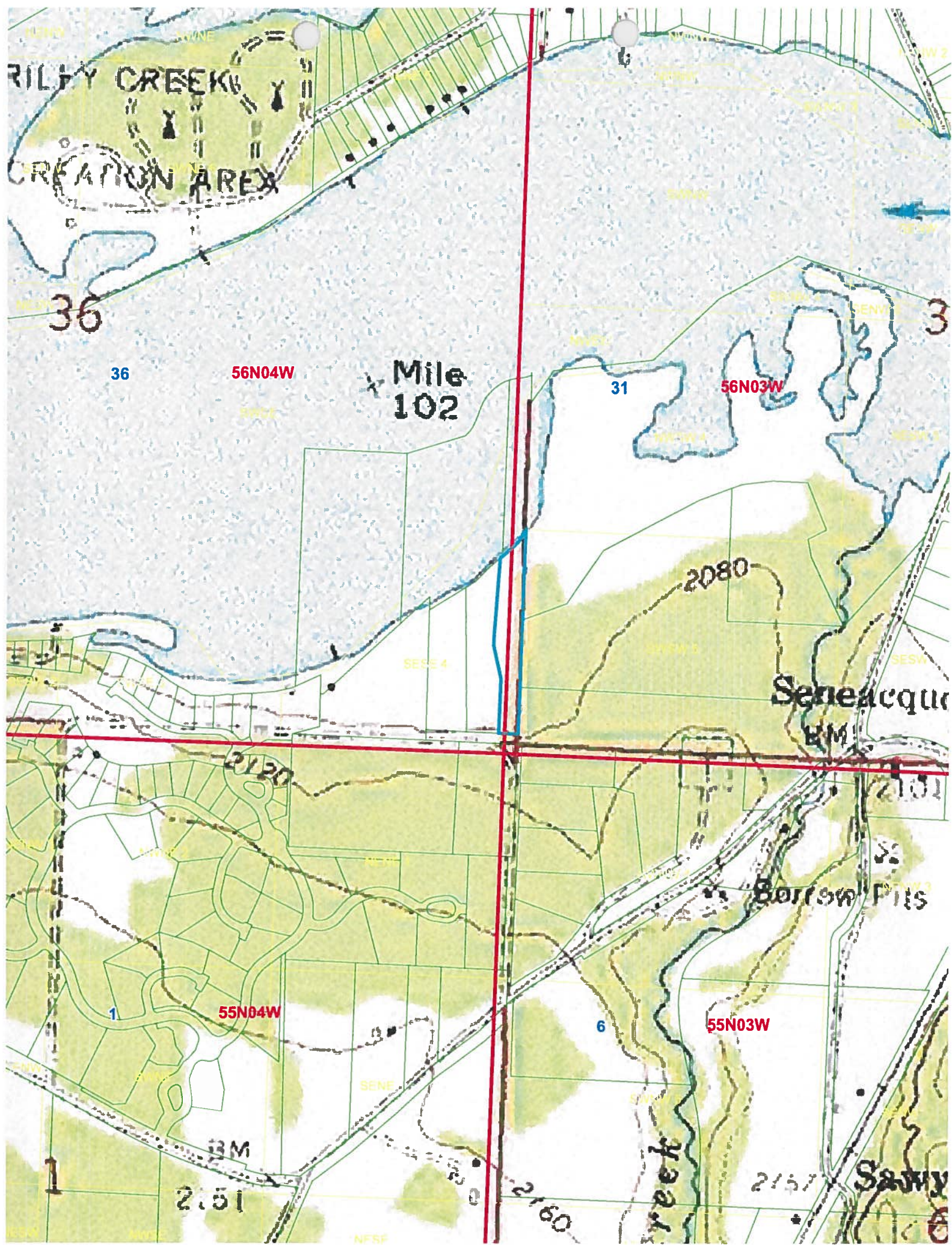
To: Water Right License 96-9245

From: Adam Frederick *AK*

Date: 1/31/2017

Re: Range and Section Lines

Application and Permit was for 11 acres of irrigation in L4 SESE of Sec 36 Twp. 56N, Rge 04W. At time of licensing review it was determined that the IDWR layer does not accurately represent the location of range and section lines. Included in the field exam report are maps showing the DRG section line located on the tax lot line of the applicant. This evidence allows IDWR to issue all of the irrigation in the SESE even though our map overlay shows it in two different QQ.





Mile
102

36

56N04W

31

56N03W

208

SE 1/4

SW 1/4

YOU CAN SEE A DIFFERENCE BETWEEN DRG LAYER AND IDWR LAYER SHOWING PROPER LOCATION OF RANGE LINE IN REFERENCE TO PROPERTY LINE.

1

55N04W

6

55N03W

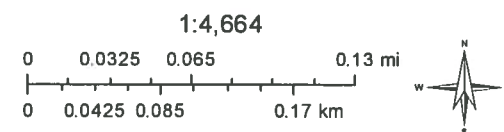
NW 1/4

Bonner County provides the data "as is" with no claim as to its accuracy.

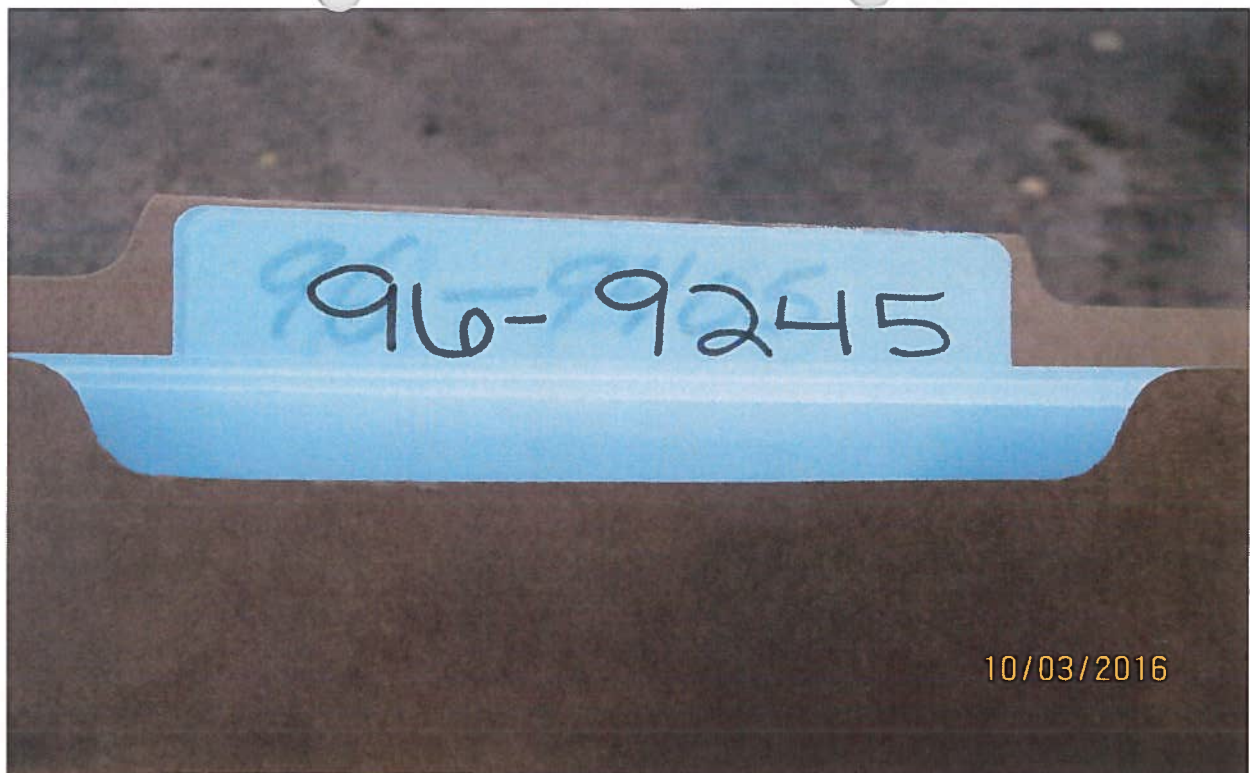


January 27, 2017

- Access
- ▼ Structure
- Access Line
- 2018 Parcels
- Tax Roll Parcels
- Tax Roll Lots



Created by:



Shoreline view of water line and buoys marking location of pump in river.



Frost free at shoreline used for irrigation.



Pump house near shore with pressure tank to deliver water for irrigation.



Frost free for irrigation use.



Irrigation around house.



Irrigation on east side of house.



Irrigation along driveway.



Frost free and tripod sprinkler next to garden.



Garden and west side of house irrigation.