

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 13-7255

Exam Date: 8/24/2007

1. Current Owner: K L BODRERO
PO BOX 5
DAYTON ID 83232
2. Accompanied by: Wesley Beuler
Phone No: (208) 747-3569 Home; (208) 317-8579
Address: 812 N 4200 W Dayton, ID
Relationship to Permit Holder:

3. **SOURCE**

UNNAMED STREAM

TRIBUTARY

WESTON DAYTON SLOUGH

B. OVERLAP REVIEW

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

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

UNNAMED STREAM

SE1/4NE1/4

Sec. 23, Twp 15S, Rge 38E, B.M.

FRANKLIN County

Method of Determination: GPS

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	
15S	38E	23				15.0									21.0				36.0
15S	38E	24						17.0			23.0								40.0

Total Acres: 76

Method of Determination: Arial Photo in ArcView

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 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 Size</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

D. FLOW MEASUREMENTS

1.

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

2. Measurements

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

Measurement of flow during the field exam was done using evidence on the weir of historic flow. The system uses a Cipolletti Weir; along the vertical edges of the notch there is algae and moss scum built up a little over 0.2 feet. This build up is believed to show historic flow, which suggests that 1.0 cfs has been historically been delivered across the weir. At time of exam, because the stream is in low flow conditions, the current flow was at .01 feet or less than 0.1 cfs. At ~0.2 feet of head the system is delivering at least 0.9 cfs and at 0.21feet the system is at 1.0 cfs. (Values from Larsen, D.C., 1976, *Water Measurement*, University of Idaho College of Agriculture, Bulletin No. 552)

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 76 \text{ acres} \times 3.5 \text{ afa/ year} = 266 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 1.0 \text{ cfs} \times 214 \text{ days} \times 1.9835 = 424.5 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 266 \text{ afa}$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

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>
IRRIGATION	04/01 to 10/31	1.000 CFS	266 afa
<u>Totals:</u>		1.000 CFS	266 afa

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 _____ Date _____

Reviewer _____ Date _____

Comment Report

13-7255

1. jlarsen 8/27/2007 Field Report Narrative

Comment: The system involves diverting flow from an unnamed stream. The diverted water travels over a Cipolletti Weir (36 inches in width) and runs into a culvert under the access road before dumping into the pond. The total distance from diversion to pond is around 20 feet, mostly buried culvert.

The width of the stream bank upstream from the weir is 4 feet 8.5 inches. The upstream pool created by the weir is 9.5 inches deep.

Although current flow is around 0.1 inch there is moss and algae on the weir that suggest that during high flow the stream can deliver the full 1 cfs this Permit allows for. The flow this permit allows for would be just over .2 foot, approximately the height of the moss on the edge of the weir (Picture taken).

The pond is 1 acre in area and 4-5 feet in depth equaling 4-5 AF.

This ground is also covered by irrigation water from the Twin Lakes Canal Co. The pond also receives water from the canal through a culvert located in the east end of the pond this culvert can handle 2.5 cfs.

2. jlarsen 8/27/2007 POU

Comment: Updated Shape

3. jlarsen 8/27/2007 POU

Comment: Updated Shape

4. jlarsen 8/27/2007 POU

Comment: Updated PLS

5. jlarsen 8/27/2007 POD

Comment: Updated shape

6. jlarsen 8/27/2007 POU Overlap Analysis

Comment: The Water Rights sharing QQ are:

13-2289

13-7481

13-946B

Type	WR #	Owner	Source	TRS	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	SWSW	SESW	NESE	SWSE	SESE	Total
Right	13 151	FIVE MILE IRRIGATION CO.	FIVEMILE CREEK	15S38E23															0
Right	13 896B	TWIN LAKES CANAL CO.	MINK CREEK	15S38E23															0
Right	13 901	TWIN LAKES CANAL COMPANY,	MINK CREEK	15S38E23															0
Right	13 2234	VIRGIL ARCHIBALD,	GROUND WATER, POND	15S38E23										36					36
Right	13 2248	DAYTON CEMETERY DIST.	GROUND WATER	15S38E23						5									5
Right	13 2249	ERNEST F BEUTLER, WALTER BEUTLER,	GROUND WATER	15S38E23	25														25
Right	13 2289	TWIN LAKES CANAL CO.	MINK CREEK	15S38E23	24	30	38	37	40	31	40	40	40	40		17	30	40	487
Right	13 7091	JOANN HENDRICKSON, EDWIN HENDRICKSON,	UNNAMED DRAIN	15S38E23			7					7	20				19		53
Right	13 7148	TRAVIS BERGESON,	GROUND WATER	15S38E23		19			14							21			33
Permit	13 7255	K L BODRERO,	UNNAMED STREAM	15S38E23					15										36
Permit	13 7465	WEST SIDE SCHOOL DISTRICT #202,	GROUND WATER	15S38E23						8									8
Permit	13 7481	TWIN LAKES CANAL CO.	DEEP CREEK	15S38E23	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
Permit	13 7488	WEST SIDE SCHOOL DISTRICT #202,	GROUND WATER	15S38E23						26									26
Right	13 946B	TWIN LAKES CANAL CO.	DEEP CREEK	15S38E23	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
TRight	13 896B	TWIN LAKES CANAL COMPANY,	MINK CREEK	15S38E23															0
TRight	13 901	TWIN LAKES CANAL COMPANY,	MINK CREEK	15S38E23															0
TRight	13 946B	TWIN LAKES CANAL CO.	DEEP CREEK	15S38E23	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
TRight	13 2289	TWIN LAKES CANAL CO.	MINK CREEK	15S38E23	24	30	38	37	40	31	40	40	40	40	40	17	30	40	487

Type	WR #	Owner	Source	TRS	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total
Right	13 896B	TWIN LAKES CANAL CO.	MINK CREEK	15S38E24																	0
Right	13 901	TWIN LAKES CANAL COMPANY,	MINK CREEK	15S38E24																	0
Right	13 2249	ERNEST F BEUTLER, WALTER BEUTLER,	GROUND WATER	15S38E24		10			22	27											59
Right	13 2289	TWIN LAKES CANAL CO.	MINK CREEK	15S38E24	24	36	40	14	40	40	40	40	40	40	20	40	40	40	40	40	554
Permit	13 7255	K L BODRERO.	UNNAMED STREAM	15S38E24							17				23						40
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TRight	13 896B	TWIN LAKES CANAL COMPANY,	MINK CREEK	15S38E24																	0
TRight	13 901	TWIN LAKES CANAL COMPANY,	MINK CREEK	15S38E24																	0
TRight	13 946B	TWIN LAKES CANAL CO.	DEEP CREEK	15S38E24	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
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Idaho Department of Water Resources

Permit Number:

13-7255

(Irrigation)

Legend

● Point of Diversion

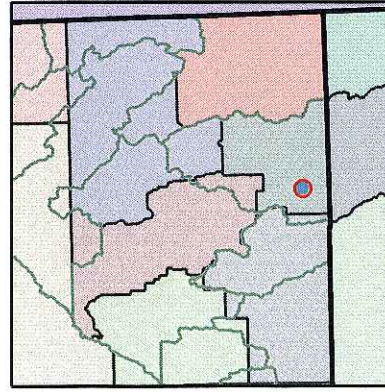
Place of Use

Townships

PLS Sections

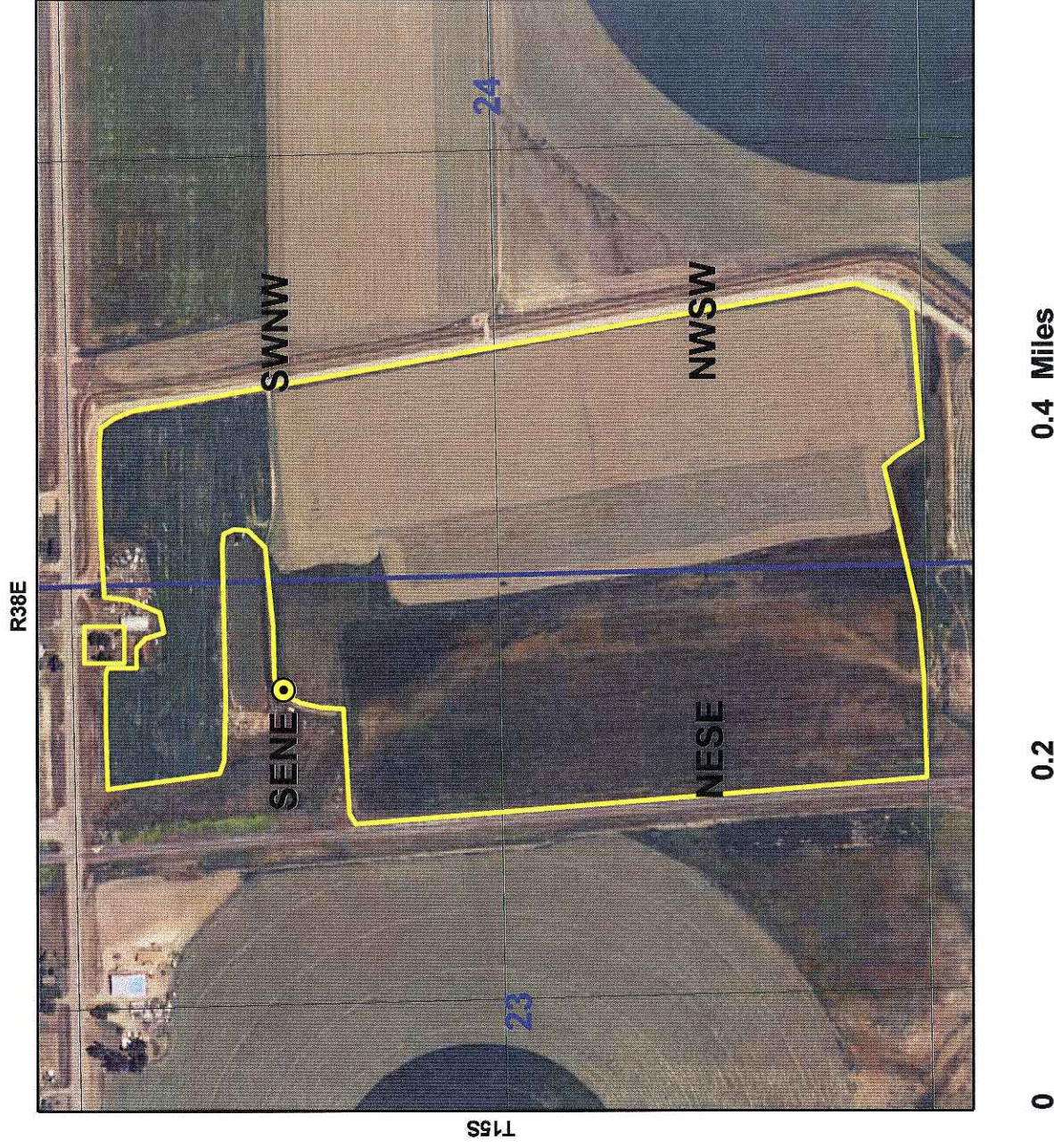
Quarter Quarters

Parcels



Franklin County
IDWR Basin 13

Prepared by J. Larsen
On Monday, August 27, 2007
2004 Aerial Photography



Owner: K L Bodrero

NOTE: Only one owner is listed. There may or may not be more than this in the IDWR database.

