

MAY 20 2005

Permit No: 51-7356

Page 1 DEPARTMENT OF WATER RESOURCES

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 51-7356

Exam Date: 7/15/1997

1. Current Owner: KENT KOHRING
28924 DAVIS RD
BRUNEAU ID 83604
(208)845-2926
2. Accompanied by: Kent Kohring
Phone No:
Address:
Relationship to Permit Holder:

3. SOURCE

WASTE WATER

TRIBUTARY

JACKS CREEK

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 51-2214, 51-12977, 51-7355
2. Other water rights with the same point of diversion: 51-7355, 51-7357

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

WASTE WATER

NW1/4NE1/4

Sec. 25, Twp 06S, Rge 04E, B.M.

OWYHEE County

Method of Determination:

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	
06S	04E	24																38.0	38.0
06S	04E	25	38.0	36.0			38.0	39.0	40.0	40.0	40.0								271.0
06S	05E	30					40.0	40.0	40.0	42.0									162.0
								L 1	L 2										

Total Acres: 471

Limited to irrigation of 275 acres within 471 acre PPU.

Method of Determination:

3. ☐ Y ☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☐ Y ☐ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☐ Y ☐ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☐ Y ☐ Photo of Diversion and System Attached

<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>
Sump Pump		_15_	Parma Water Lifter No. 4		

*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: Agri-Lines in Bruneau installed the wastewater system. Terry Crothers, manager of Agri-Lines, stated that the sump pump could pump 1100 gpm at 10 ft lift.

E. FLOW CALCULATIONS☐ Additional Computation Sheets Attached

Measured Method: 1100 gpm = 2.45 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 275 \times 4 = 1100$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = .58 \times 260 \times 1.9835 = 299.1$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 299.1$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

A 15 hp lift pump diverts wastewater from a drain ditch into a pond via 10 inch culvert. Water is then diverted to the acres from the pond with two 75 hp re-lift pumps and a mainline sprinkler system. Permit 51-7355 uses the same source and system for irrigation of additional acres. The pond is also fed by two ground water wells, licenses 51-2214 and 51-12977. These rights were decreed in the SRBA to be used within a 471 ppu. Since the ground water and wastewater are combined in the same pond, the wastewater rights should be amended to the same ppu as the decreed rights with conditions. The permits listed 4/1 to 10/31 as the irrigation season of use. The standard season is now 3/1 to 11/15, which was recommended for licensing.

Protested application 51-7357 is for the same system but separate acres outside the recommended ppu.

Note: Mr. Kohring stated that upper farms excessively irrigate to reduce nitrates and salt in their soil composition. Because of a confining clay layer about 8 to 10 ft below surface, the waste water from the upper farms does not penetrate, but rather accumulates and runs off to lower elevations.

Photos, maps, system diagram and additional exam information are located in file 51-7355.

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	0.580 CFS	299.1 AF
<u>Totals:</u>		0.580 CFS	299.1 AF

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 Lee G. Gnanan Date 5/10/05

Reviewer _____ Date _____