

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-33741

Exam Date: 07/25/2023

1. Current Owner:

TONI WEBBER 12042 SE SUNNYSIDE RD # 3387 CLACKAMAS OR 97015-8382 AND/OR
JAMES WEBBER 5031 SE KELLY ST PORTLAND OR 97206

2. Accompanied by: Brock Obendorff

Phone No: 208-880-6859

Address: 30966 Pet Lane, Parma, ID

Relationship to permit Holder: Farm Lease holder/ installed system

3. **SOURCE:**

SOUTH BOISE DRAIN

Tributary

SNAKE RIVER

Method of Determination: Garmin GPS, GIS and Taxlot Data**B. OVERLAP REVIEW**

1. Other water rights with the same place of use:

NO Overlap

Water Right No.	Source	Purpose of Use	Basis
63-11421	South Boise Drain	Wildlife/Wildlife Storage	License

Comments: Right 63-11421 (owned by the permit holder) is for Wildlife/Wildlife Storage, located within the permit place of use (POU). There are no concerns regarding with impact on the Wildlife right, as the permit point of diversion (POD) is for irrigation (a different beneficial use) and is downstream of wildlife.

2. Other water rights with the same point-of-diversion:

NO Overlap

Water Right No.	Source	Purpose of Use	Basis
NONE	NA	NA	NA

Comments: There are no rights sharing the PODs with the permit being reviewed.

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

SOUTH BOISE DRAIN SW¼ SW¼, Sec. 12, Twp 05N, Rge 06W, B.M. CANYON County

SOUTH BOISE DRAIN SW¼ SW¼, Sec. 12, Twp 05N, Rge 06W, B.M. CANYON County

Method of Determination:

As the pumps for each system were only about 8 feet apart a Garmin 65S GPS was used to find the coordinates of the points of diversion (within 7 ft of error).

Point of diversion coordinates: Lat: N43°46.7713' Long: W117°00.7321'

PLACE OF USE: IRRIGATION

Twp	Rng	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											13.0	33.0					46.0
05N	06W	13					12.0	24.0	29.0										65.0

Total Acres: 111.0

Method of Determination: ArcGIS Mapping Tools, aerial imagery, and field observations.

3.

Delivery System Diagram Attached (See Figure 1). Indicate all major components and distances between components. 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.

☒ Aerial Photo Attached (required for irrigation of 10+ acres).

☒ 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
Pump 1 at Boise Drain	GE	25	DSFT102S016	Flowise	8" discharge
Pump 2 at Boise Drain	GE	25	DSFT104S011	Flowise	8" discharge

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Ultrasonic Flowmeter	Clamp-on Closed conduit flowmeter	GE Panametric	PT878	09044	NA	04/19/2023

2. Measurements:

The average measured rate of flow was found to be approximately 0.021cfs per acre (see attached table 1). I am recommending a combined rate of 2.22cfs on the license, based on the headgate standard rate and measured rate of flow.

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: Both systems were running throughout the duration of the field examination. As there were two separate systems, measurements were taken for each system. The wetted clamp-on closed conduit flow meter was attached to the 8" aluminum riser at each pivot. Ten measurements were logged at 1-minute intervals for each pivot (note: each system has 1 pump to 1 pivot). The measurement spreadsheets for each pivot were entered into an Excel Spreadsheet, where an average of each 10-measurement sample was calculated then combined to find the additive rate of flow.

Measured average at Pivot #1= 1.21cfs

Measured average at Pivot #2= 1.07cfs

Total measured rate= 2.28cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

According to IDAPA 37-Rule 35.01.J.viii, streamflow surface water is exempt from volume reporting requirements.

G. NARRATIVE/REMARKS/COMMENTS

The permit was issued July 12th, 2013, for the irrigation of 160 acres, with one point of diversion in the NWNW of section 13. The permit holder later filed a 5-year extension, with a proof of beneficial use due date of July 1st, 2023. The proof of beneficial use was received June 22nd, 2023, stating that approximately 115 acres were developed for irrigation, with one point of diversion, as on the permit. . The parcels which the permit POU is within are owned by the permit holder and subject to a farm lease with Brock Obendorff, who also installed the current irrigation system.

The Field examination was conducted by Bob Howe, Justin Shearer, and Scott Luvaas on July 25th, 2023, at 11:00 am. We met with the permit holder and Brock Obendorff at the property for a field examination. There were two pivots in use for irrigation at the time of the examination, one full pivot in the northeast of the POU, (SESW & SWSW of section 12, and

NENW & NWNW of section 13) irrigating approximately 64 acres, and a half pivot irrigates approximately 47 acres in the NWSW & NWNW of section 13. Within the permit POU the southeast corner of the SWNW of section 13 and the southern half of the NENW of section 13 were left undeveloped. Each of the two pivots have 6 spans with 6 nelson Hi-Flo 20psi regulators and rotator heads; both pivots have end guns. Each pivot has a dedicated delivery system. Each system diverts water using a 25 Hp GE pump at the South Boise Drain (see Photo 2) and delivered via 8" PVC pipe to one pivot tower.

Before the field exam a GIS measurement based on the proof of beneficial use map measured approximately 110 acres of irrigation. Mr. Obendorff sketched the area of irrigation and a system diagram on an aerial image provided. The final measurement of the area of use, based on field observations, aerial imagery, and Mr. Obendorff's drawings and description indicated approximately 111 acres of irrigation, 4 acres less than the 115 acres stated on the proof of beneficial use received.

The GPS coordinates collected for the PODs in the field placed both within the SWSW of section 12, not the permit POD of NWNW of section 13. As only 1 POD in section 13 was on the permit and the systems developed has 2 PODs in the SWSW of section 12, I processed and mailed an amendment of permit on July 28th, 2023. I called the permit holder to explain that they would need to sign the document and return it to the state office with a \$100 fee payment. The additional fee was received with the license amendment. The priority date should be advanced 60 days to March 29, 2013.

Before licensing condition 26A was removed and condition 121 was replaced with 103, as per current procedures. A modified version of 01J was used on the permit, which did not require a measurement device be installed at licensing as stated in condition R43. The modified condition 01J was replaced with conditions 01M and R02 at licensing. It is recommended that the Department consider notifying the right holder in the future that a measuring device is required.

I am recommended that the license be issued with conditions R05, 01M, R02, R65, 103, 176, and 004. The measurements taken found the systems capable of exceeding the headgate requirements for irrigation (the combined measured rate was 2.28cfs). I am recommending a rate of 2.22cfs, based on the irrigation headgate requirements. Upon the amendment for the points of diversion it will be necessary to review the permit for a split as the permit is for 1 system to be developed and two separate systems were developed.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>
IRRIGATION	03/01 to 11/15	2.22 CFS

Totals: 2.22 CFS

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 ☐ None

I. AUTHENTICATION

Bob Howe -Water Resource Agent

Field Examiner's Name

[Signature]

Date

2/17/26

Reviewer

[Signature]

Date

2/17/26

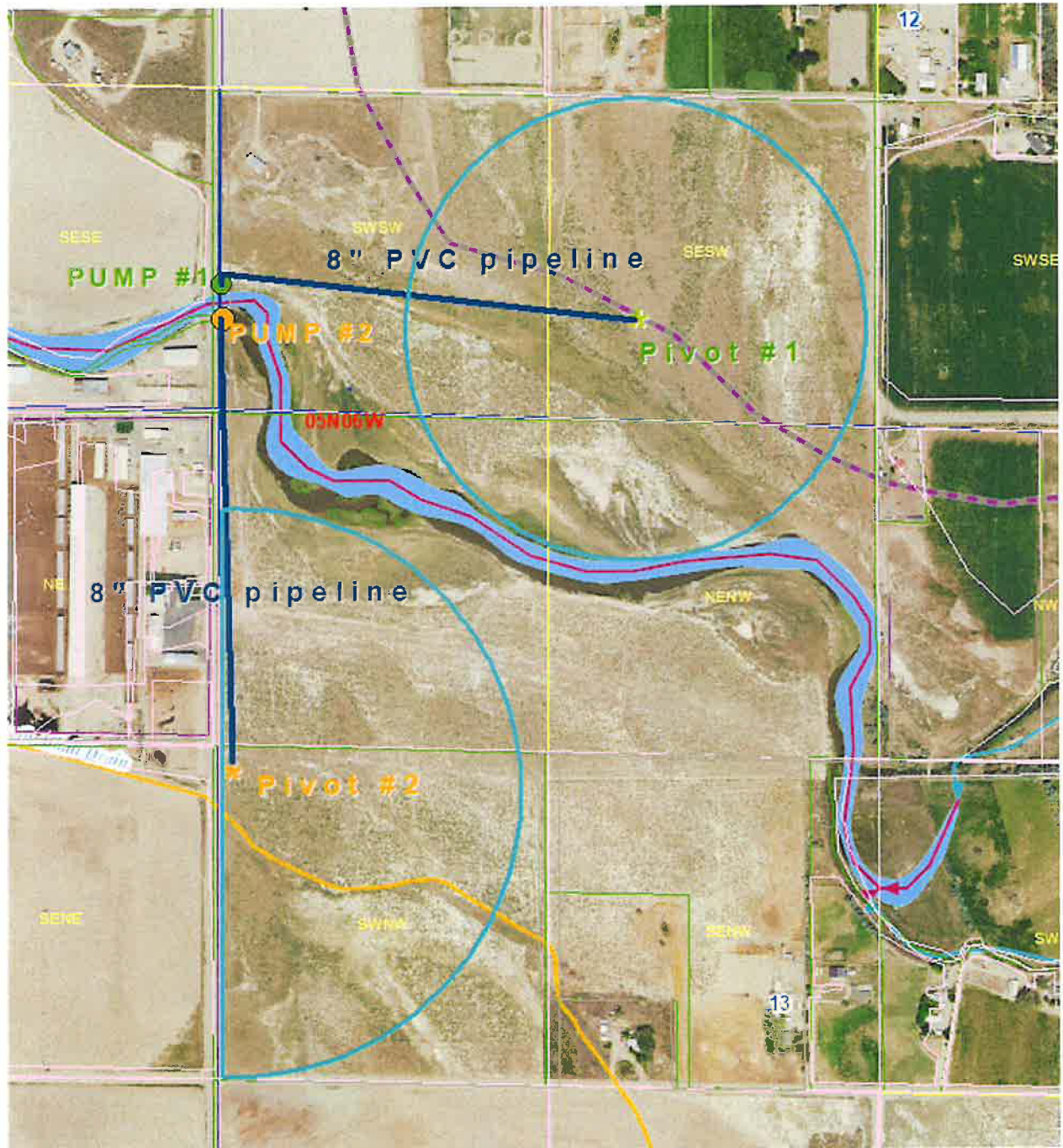


Figure 1- System Diagram- Irrigated areas outlined in light blue. 8" PVC pipelines (dark blue lines) between each pivot tower and 25Hp pump



Photo 1a- 1b(from left to right) Photo of spec details for Pump #1. Photo of spec details for Pump #2.



Photo 2-facing southwest- Pumps at the South Boise Drainage. Pump #1 is on the right, Pump #2 is on the left.



Photo 3- Pivot #2- comprised of 6 spans, each with 6- Nelson Hi-Flo, 20psi-with rotator heads. End guns were visible from the road.



Photos 4-6, From left to right- Nelson Hi-Flo 20psi regulators with rotator heads. Pressure gauge at pivot (reading 40psi). Panametric transducers attached to Pivot #2, while taking measurement.



Figure 2.- Google Earth aerial image, 2022. Pivot #2 installed (6 spans visible).



Photo 7- Pivot #1. Tower with Panametric transducers attached while taking measurements.



Figure 3. Google imagery, 2022. Pivot 1 being installed (6 total spans visible).



Photos 8-10, from left to right- (8)Pivot 1 looking down tower on control valve and pressure blow off. (9) Looking down the lateral line of pivot. (10) Nelson Sprinkler regulator with nelson rotator head (6 per span).

