

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
BENEFICIAL USE FIELD REPORT

**A. GENERAL INFORMATION**

**Permit No:** 73-12257  
**Exam Date:** 06/10/2024

1. Current Owner:  
STANLEY M DOWTON & PATRICIA DOWTON 700 BURSTEDT LN ELLIS ID 83235
2. Accompanied by: Stanley Dowton  
Phone No: (208) 833-4200 cell  
Address: Same as above  
Relationship to permit Holder: Self

**3. SOURCE:**

WASTE WATER

**Tributary**

SINKS

**Method of Determination:** Garmin TREX 20 GPS, GIS, and Lemhi County tax parcel information.

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: NO Overlap

| Water Right No. | Source           | Purpose of Use      | Basis        |
|-----------------|------------------|---------------------|--------------|
| 73-4090         | PAHSIMEROI RIVER | STOCKWATER          | DECREED 1999 |
| 73-10118        | GROUNDWATER      | STOCKWATER/DOMESTIC | DECREED 2000 |
| 73-10119        | PAHSIMEROI RIVER | STOCKWATER          | DECREED 2000 |
| 73-11601        | MORGAN CREEK     | STOCKWATER          | DECREED 2000 |

Comments: Rights 73-4090, 73-10118, 73-10119, and 73-11601 have GIS shapefiles overlapping the permitted place of use (POU). However, they have stockwater and stockwater/domestic beneficial uses and have different sources than the permitted use.

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: No rights share the permit points of diversion (POD).

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

WASTE WATER SE¼ NW¼, Sec. 31, Twp 16N, Rge 21E, B.M. LEMHI County **GIS COORDS: W114°01.412' N44°40.491'**

WASTE WATER ~~SW¼~~ SE¼ SE¼, Sec. 31, Twp 16N, Rge 21E, B.M. LEMHI County **GIS COORDS: W114°01.064' N44°40.108'**

Method of Determination: Garmin TREX 20 GPS, GIS, and Lemhi County tax parcel information.

**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 |        |
| 16N | 21E | 31  |    |    |    |    |    |    | 2.0<br>L4 | 12.0 | 5.2 | 2.1<br>L1 |    |    |    |    | 4.7 |    | 26.0   |

Total Acres: 26.0

Method of Determination: Garmin TREX 20 GPS, GIS, and Lemhi County tax parcel information.

**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

X 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 |
|---------------------------|------------|----|------------------|-----------|-----------------------------------|
| Lateral Irr. Ditches      | NA         | NA | NA               | NA        | NA                                |

**D. FLOW MEASUREMENTS**

1.

| Measurement Equipment | Type        | Make | Model No. | Serial No. | Size | Calib. Date |
|-----------------------|-------------|------|-----------|------------|------|-------------|
| Sharp Crested Weir    | Rectangular |      |           |            | 5ft  |             |

Comment: A steel sharp crested partially contracted rectangular weir was installed with a standard staff gauge set level with the bottom of the crest.

**E. FLOW CALCULATIONS**

Additional Computation Sheets Attached

Measured Method: Record of weir head observed at 0.6ft (Photo ). According to the USBR Water Measurement Handbook measurement table A7-2 (see figure A, below) a rate of approximately 7.55cfs was observed.

**Table A7-2.** Discharge of standard contracted rectangular weirs in ft<sup>3</sup>/sec. Shaded entries determined experimentally. All others computed from the formula  $Q = 3.33(L - 0.2h_1)h_1^{1.5}$ .

| Head, $h_1$ , ft | 0.5   | 1.0   | 1.5   | 2.0   | 3.0   | 4.0  | 5.0  | 6.0  | 7.0  |
|------------------|-------|-------|-------|-------|-------|------|------|------|------|
| 0.18             | 0.122 |       |       |       |       |      |      |      |      |
| .19              | .132  |       |       |       |       |      |      |      |      |
| .20              | .142  | 0.286 | 0.435 | 0.584 | 0.882 | 1.18 | 1.48 | 1.78 | 2.07 |
| .21              | .152  | .307  | .467  | .627  | .948  | 1.27 | 1.59 | 1.91 | 2.23 |
| .22              | .162  | .329  | .500  | .672  | 1.02  | 1.36 | 1.70 | 2.05 | 2.39 |
| .23              | .173  | .350  | .534  | .718  | 1.09  | 1.45 | 1.82 | 2.19 | 2.55 |
| .24              | .184  | .373  | .568  | .764  | 1.16  | 1.55 | 1.94 | 2.33 | 2.72 |
| .25              | .195  | .395  | .604  | .812  | 1.23  | 1.64 | 2.06 | 2.48 | 2.89 |
| .26              |       | .419  | .639  | .860  | 1.30  | 1.74 | 2.18 | 2.63 | 3.07 |
| .27              |       | .442  | .676  | .909  | 1.38  | 1.84 | 2.31 | 2.78 | 3.25 |
| .28              |       | .466  | .712  | .959  | 1.45  | 1.95 | 2.44 | 2.93 | 3.43 |
| .29              |       | .490  | .750  | 1.01  | 1.53  | 2.05 | 2.57 | 3.09 | 3.61 |
| .30              |       | .514  | .788  | 1.06  | 1.61  | 2.16 | 2.70 | 3.25 | 3.80 |
| .31              |       | .539  | .827  | 1.11  | 1.69  | 2.26 | 2.84 | 3.41 | 3.99 |
| .32              |       | .564  | .866  | 1.17  | 1.77  | 2.37 | 2.98 | 3.58 | 4.18 |
| .33              |       | .590  | .905  | 1.22  | 1.85  | 2.48 | 3.11 | 3.75 | 4.38 |
| .34              |       | .615  | .945  | 1.28  | 1.94  | 2.60 | 3.26 | 3.92 | 4.58 |
| .35              |       | .658  | .986  | 1.33  | 2.02  | 2.71 | 3.40 | 4.09 | 4.78 |
| .36              |       | .686  | 1.03  | 1.39  | 2.11  | 2.83 | 3.54 | 4.26 | 4.98 |
| .37              |       | .714  | 1.07  | 1.44  | 2.19  | 2.94 | 3.69 | 4.44 | 5.19 |
| .38              |       | .743  | 1.11  | 1.50  | 2.28  | 3.06 | 3.84 | 4.62 | 5.40 |
| .39              |       | .772  | 1.15  | 1.56  | 2.37  | 3.18 | 3.99 | 4.80 | 5.61 |
| .40              |       | .801  | 1.20  | 1.62  | 2.46  | 3.30 | 4.14 | 4.99 | 5.83 |
| .41              |       | .830  | 1.24  | 1.68  | 2.55  | 3.43 | 4.30 | 5.17 | 6.05 |
| .42              |       | .860  | 1.28  | 1.74  | 2.64  | 3.55 | 4.46 | 5.36 | 6.27 |
| .43              |       | .890  | 1.33  | 1.80  | 2.74  | 3.68 | 4.61 | 5.55 | 6.49 |
| .44              |       | .920  | 1.37  | 1.86  | 2.83  | 3.80 | 4.77 | 5.75 | 6.72 |
| .45              |       | .950  | 1.42  | 1.92  | 2.93  | 3.93 | 4.94 | 5.94 | 6.95 |
| .46              |       | .981  | 1.46  | 1.98  | 3.02  | 4.06 | 5.10 | 6.14 | 7.18 |
| .47              |       | 1.01  | 1.51  | 2.05  | 3.12  | 4.19 | 5.26 | 6.34 | 7.41 |
| .48              |       | 1.04  | 1.55  | 2.11  | 3.22  | 4.32 | 5.43 | 6.54 | 7.65 |
| .49              |       | 1.08  | 1.60  | 2.17  | 3.31  | 4.48 | 5.60 | 6.74 | 7.88 |
| .50              |       | 1.11  | 1.65  | 2.24  | 3.41  | 4.59 | 5.77 | 6.95 | 8.12 |
| .51              |       |       |       | 2.30  | 3.51  | 4.73 | 5.94 | 7.15 | 8.37 |
| .52              |       |       |       | 2.37  | 3.62  | 4.86 | 6.11 | 7.36 | 8.61 |
| .53              |       |       |       | 2.43  | 3.72  | 5.00 | 6.29 | 7.57 | 8.86 |
| .54              |       |       |       | 2.50  | 3.82  | 5.14 | 6.46 | 7.79 | 9.11 |
| .55              |       |       |       | 2.57  | 3.93  | 5.28 | 6.64 | 8.00 | 9.36 |
| .56              |       |       |       | 2.63  | 4.03  | 5.43 | 6.82 | 8.22 | 9.61 |
| .57              |       |       |       | 2.70  | 4.14  | 5.57 | 7.00 | 8.43 | 9.87 |
| .58              |       |       |       | 2.77  | 4.24  | 5.71 | 7.18 | 8.65 | 10.1 |
| .59              |       |       |       | 2.84  | 4.35  | 5.86 | 7.37 | 8.88 | 10.4 |
| .60              |       |       |       | 2.91  | 4.46  | 6.00 | 7.55 | 9.10 | 10.6 |

**Figure A- USBR Discharge Table.**

Comment: Just downstream of the southern turn out for irrigation (POD1) The pivot pump diverts from the ditch fulfilling WR 73-109 which allocates 5.60cfs for the irrigation of 130.4 acres. At the time of the examination the measured flow in addition to the existing right was 1.95cfs exceeding the 0.52cfs permitted for waste water irrigation. I recommend the license is issued for the full permitted rate of 0.52cfs for the irrigation of 26 acres.

**F. VOLUME CALCULATIONS**

1. Volume Calculations for irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 26 \text{ acres} \times 3.5 \text{ AF annually} = 91 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.52 \text{ cfs} \times 214 \text{ days} \times 1.9835 = 220.7 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 91 \text{ AF annually}$$

2. Volume Calculations for Other Uses: NA

Comment: GIS measurement confirmed 26 acres of irrigation evident within the permitted POU. I recommend the license is issued with an annual volume of 91 AF, per the field headgate 3.5 AF/acre standard.

**G. NARRATIVE/REMARKS/COMMENTS**

The Proof of Beneficial Use for the irrigation use developed under permit 73-12257 was received by IDWR on February 26, 2018, stating in section #5 that the extent of beneficial use was developed for the irrigation of 26 acres. During the field examination on June 10, 2024, GIS coordinates for the weir and the southern (POD1) and northern (POD2) turnouts from the Carter Ditch were recorded, and photos were taken documenting the irrigation use. GIS measurement of the observed irrigation area was approximately 26 acres. The permitted areas are irrigated with wastewater that is distributed throughout the permitted POU by a series of lateral ditches (Figure1-System Diagram). The pivot between the northern and southern POU boundaries is diverted from the Carter Ditch as authorized under right 74-109 with a maximum diversion rate of 5.60cfs. The right is owned by the permit holder and is adjacent to, not overlapping the permitted POU.

At the time of the examination a rate of 5.77cfs was measured at the weir upstream of the turnouts and pump station. The ditch terminates just north of the last turnout. Right 74-109 and the permit are the last water users at the terminal end of the ditch. With right 74-109 fully satisfied the remaining flow in the ditch exceeded the 0.52cfs permitted.

During the field examination it was determined that the location of the southern turnouts (POD1) is upstream of the pivot pumps and are actually located in the SESE of section 31, on the application and permit the POD is identified as in the SWSE. The permit was amended for licensing to correct the location of the POD.

I recommend the license be issued for the full permitted rate of 0.52cfs (section E), an annual volume of 91 AF (section F), and with conditions 176, R05, R02, R43, 198, R63, 004, and U42. Condition 01H was replaced with R02 at licensing, per current guidance. After discussions with James Cefalo, and correspondence with the Watermaster condition 215 was replaced with R43, as a data logger would not aid in administration of the right and condition 198 requires that the permit holder may be required to provide the same information upon request.

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> | <u>Annual Volume</u> |
|-----------------------|----------------------|--------------------------|----------------------|
| IRRIGATION            | 04/01 to 10/31       | 0.52 CFS                 | 91.0 AF              |

**Totals:** 0.52 CFS 91.0 AF

**2. Recommended Amendments**

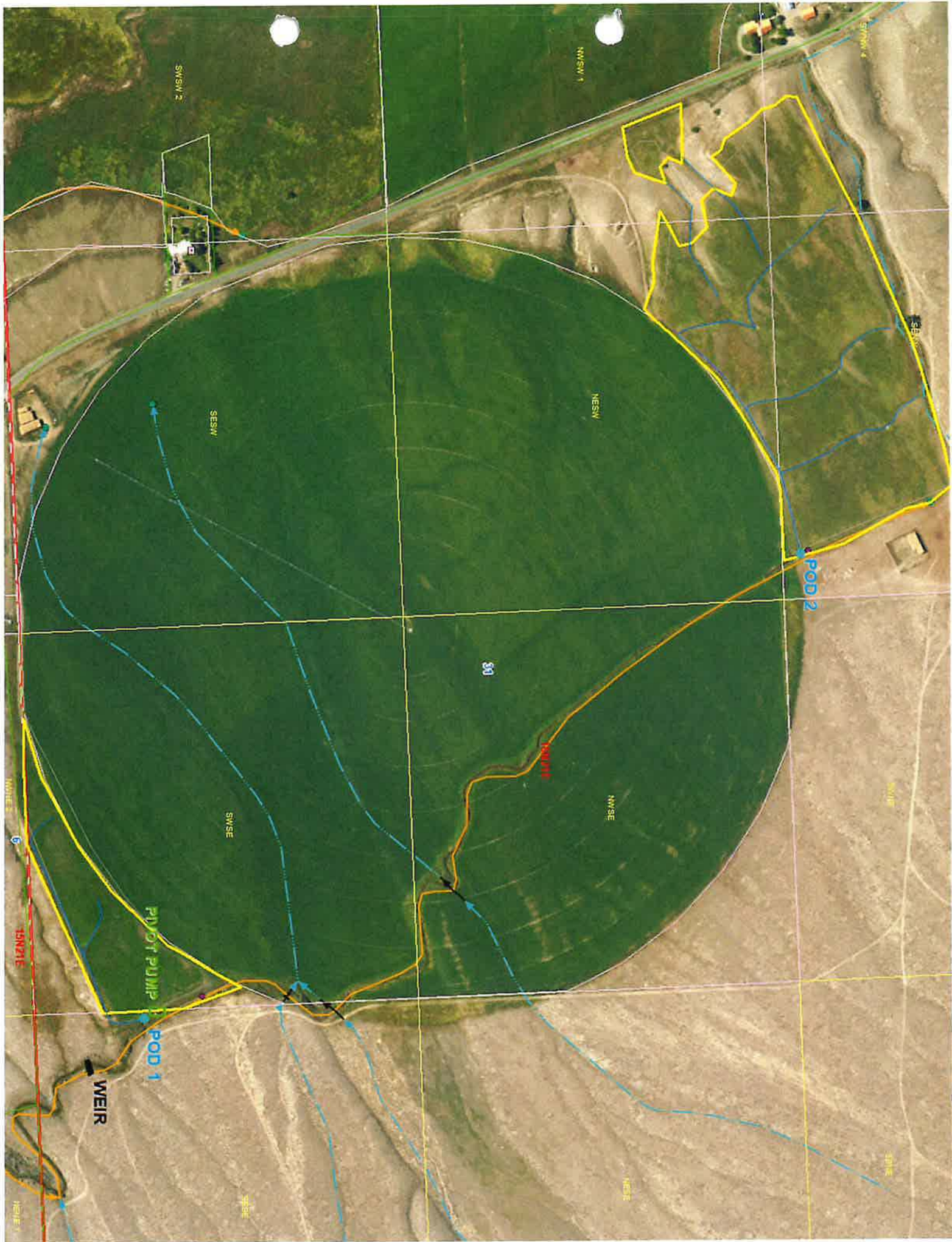
☒ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

**I. AUTHENTICATION** Bob Howe - Water Resource Agent, Sr.

Field Examiner's Name \_\_\_\_\_ Date \_\_\_\_\_

Reviewer Scott King Date July 9, 2026





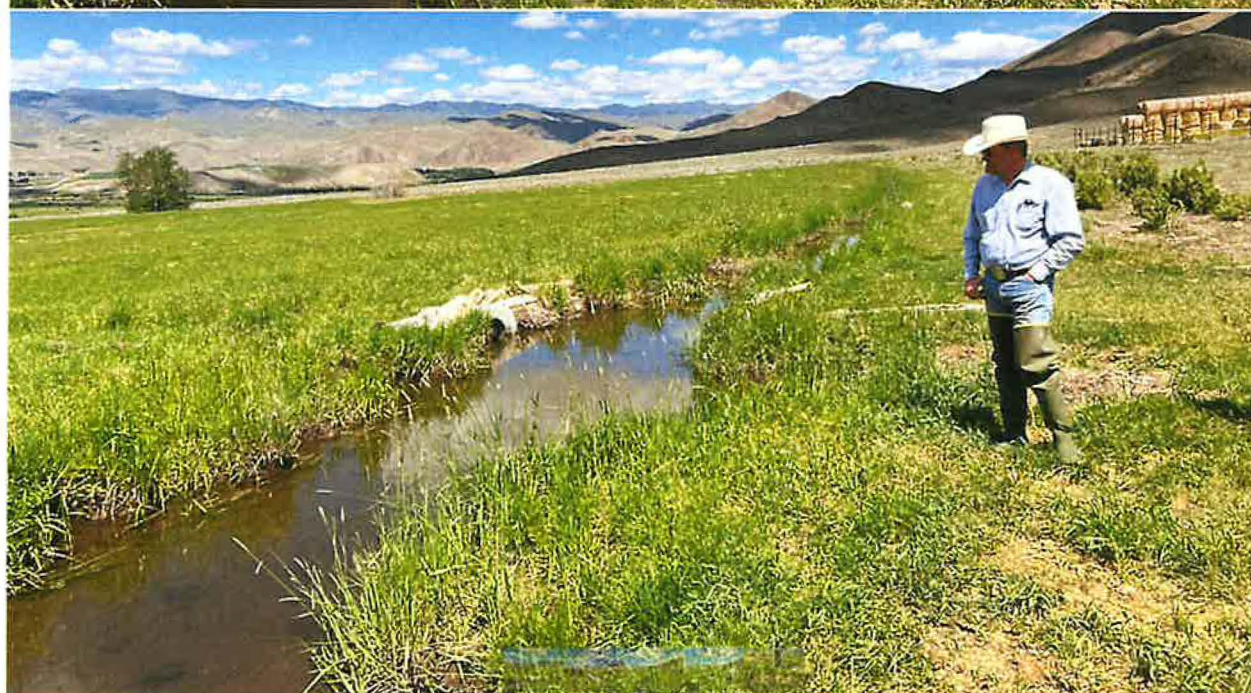
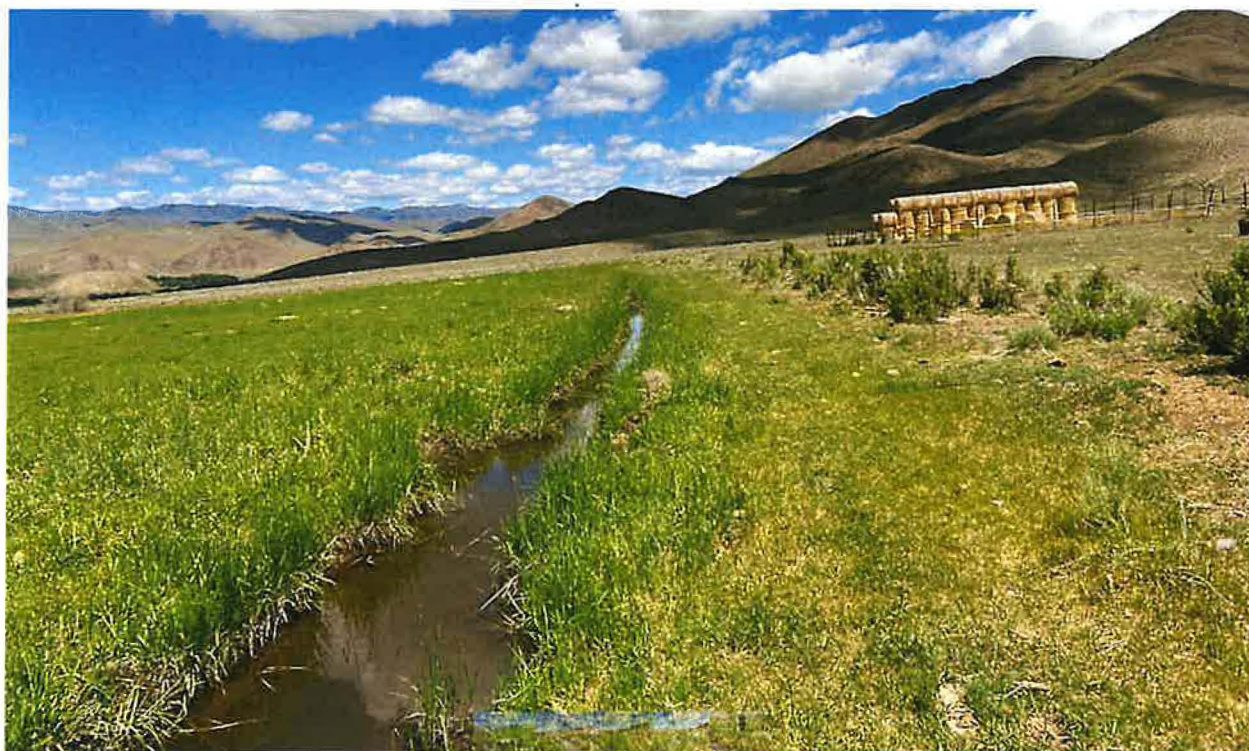














**Table A7-2.** Discharge of standard contracted rectangular weirs  
in ft<sup>3</sup>/sec. Shaded entries determined experimentally. All others  
computed from the formula  $Q=3.33(L-0.2h_1)h_1^{1.5}$ .

| Head, $h_1$<br>ft | Weir Length, $L$ , ft |       |       |       |       |       |       |       |       |
|-------------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
|                   | 0.5                   | 1.0   | 1.5   | 2.0   | 3.0   | 4.0   | 5.0   | 6.0   | 7.0   |
| 0.18              | 0.122                 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| .19               | .132                  | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| .20               | .142                  | 0.286 | 0.435 | 0.584 | 0.882 | 1.18  | 1.48  | 1.78  | 2.07  |
| .21               | .152                  | .307  | .467  | .627  | .948  | 1.27  | 1.59  | 1.91  | 2.23  |
| .22               | .162                  | .329  | .500  | .672  | 1.02  | 1.36  | 1.70  | 2.05  | 2.39  |
| .23               | .173                  | .350  | .534  | .718  | 1.09  | 1.45  | 1.82  | 2.19  | 2.55  |
| .24               | .184                  | .373  | .568  | .764  | 1.16  | 1.55  | 1.94  | 2.33  | 2.72  |
| .25               | .195                  | .395  | .604  | .812  | 1.23  | 1.64  | 2.06  | 2.48  | 2.89  |
| .26               | -----                 | .419  | .639  | .860  | 1.30  | 1.74  | 2.18  | 2.63  | 3.07  |
| .27               | -----                 | .442  | .676  | .909  | 1.38  | 1.84  | 2.31  | 2.78  | 3.25  |
| .28               | -----                 | .466  | .712  | .959  | 1.45  | 1.95  | 2.44  | 2.93  | 3.43  |
| .29               | -----                 | .490  | .750  | 1.01  | 1.53  | 2.05  | 2.57  | 3.09  | 3.61  |
| .30               | -----                 | .514  | .788  | 1.06  | 1.61  | 2.16  | 2.70  | 3.25  | 3.80  |
| .31               | -----                 | .539  | .827  | 1.11  | 1.69  | 2.26  | 2.84  | 3.41  | 3.99  |
| .32               | -----                 | .564  | .866  | 1.17  | 1.77  | 2.37  | 2.98  | 3.58  | 4.18  |
| .33               | -----                 | .590  | .905  | 1.22  | 1.85  | 2.48  | 3.11  | 3.75  | 4.38  |
| .34               | -----                 | .615  | .945  | 1.28  | 1.94  | 2.60  | 3.26  | 3.92  | 4.58  |
| .35               | -----                 | .658  | .986  | 1.33  | 2.02  | 2.71  | 3.40  | 4.09  | 4.78  |
| .36               | -----                 | .686  | 1.03  | 1.39  | 2.11  | 2.83  | 3.54  | 4.26  | 4.98  |
| .37               | -----                 | .714  | 1.07  | 1.44  | 2.19  | 2.94  | 3.69  | 4.44  | 5.19  |
| .38               | -----                 | .743  | 1.11  | 1.50  | 2.28  | 3.06  | 3.84  | 4.62  | 5.40  |
| .39               | -----                 | .772  | 1.15  | 1.56  | 2.37  | 3.18  | 3.99  | 4.80  | 5.61  |
| .40               | -----                 | .801  | 1.20  | 1.62  | 2.46  | 3.30  | 4.14  | 4.99  | 5.83  |
| .41               | -----                 | .830  | 1.24  | 1.68  | 2.55  | 3.43  | 4.30  | 5.17  | 6.05  |
| .42               | -----                 | .860  | 1.28  | 1.74  | 2.64  | 3.55  | 4.46  | 5.36  | 6.27  |
| .43               | -----                 | .890  | 1.33  | 1.80  | 2.74  | 3.68  | 4.61  | 5.55  | 6.49  |
| .44               | -----                 | .920  | 1.37  | 1.86  | 2.83  | 3.80  | 4.77  | 5.75  | 6.72  |
| .45               | -----                 | .950  | 1.42  | 1.92  | 2.93  | 3.93  | 4.94  | 5.94  | 6.95  |
| .46               | -----                 | .981  | 1.46  | 1.98  | 3.02  | 4.06  | 5.10  | 6.14  | 7.18  |
| .47               | -----                 | 1.01  | 1.51  | 2.05  | 3.12  | 4.19  | 5.26  | 6.34  | 7.41  |
| .48               | -----                 | 1.04  | 1.55  | 2.11  | 3.22  | 4.32  | 5.43  | 6.54  | 7.65  |
| .49               | -----                 | 1.08  | 1.60  | 2.17  | 3.31  | 4.46  | 5.60  | 6.74  | 7.88  |
| .50               | -----                 | 1.11  | 1.65  | 2.24  | 3.41  | 4.59  | 5.77  | 6.95  | 8.12  |
| .51               | -----                 | ----- | ----- | 2.30  | 3.51  | 4.73  | 5.94  | 7.15  | 8.37  |
| .52               | -----                 | ----- | ----- | 2.37  | 3.62  | 4.86  | 6.11  | 7.36  | 8.61  |
| .53               | -----                 | ----- | ----- | 2.43  | 3.72  | 5.00  | 6.29  | 7.57  | 8.86  |
| .54               | -----                 | ----- | ----- | 2.50  | 3.82  | 5.14  | 6.46  | 7.79  | 9.11  |
| .55               | -----                 | ----- | ----- | 2.57  | 3.93  | 5.28  | 6.64  | 8.00  | 9.36  |
| .56               | -----                 | ----- | ----- | 2.63  | 4.03  | 5.43  | 6.82  | 8.22  | 9.61  |
| .57               | -----                 | ----- | ----- | 2.70  | 4.14  | 5.57  | 7.00  | 8.43  | 9.87  |
| .58               | -----                 | ----- | ----- | 2.77  | 4.24  | 5.71  | 7.18  | 8.65  | 10.1  |
| .59               | -----                 | ----- | ----- | 2.84  | 4.35  | 5.86  | 7.37  | 8.88  | 10.4  |
| .60               | -----                 | ----- | ----- | 2.91  | 4.46  | 6.00  | 7.55  | 9.10  | 10.6  |



IDAHO DEPARTMENT OF  
**WATER RESOURCES**

Western Region • 2735 W Airport Way • Boise, ID 83705-5082

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Governor Brad Little

Director Mathew Weaver

February 13, 2025

STANLEY & PATRICIA DOWTON  
700 BURSTEDT LN  
ELLIS ID 83235

RE: Water Right Permit No. 73-12257

Dear Permit Holder(s):

The Department of Water Resources is reviewing the permit(s) referenced above prior to issuing water right license(s). By issuing a license, the Department confirms the extent of development that has been established in compliance with the terms of the permit.

The examiner who verified your water use reported that certain elements of the permit(s) have been developed differently than described on your permit(s). Changes that do not increase the authorized use of water under the permit(s) can be requested and approved in accordance with Idaho Code § 42-211. Before license(s) can be issued, your permit(s) must be amended to depict your water use as it was actually developed.

Based on the examiner's report, the following elements were developed differently than described on your permit(s):

  X   Point(s) of Diversion

       Place(s) of Use

       Other

The enclosed Application for Amendment form depicts the elements of the water right as they will appear on the license when issued. Please review the amendment form carefully. If you concur with the information presented, please sign and return the form with the filing fee of \$100.00 within fourteen (14) days.

If you have any questions, please call me at (208)605-4628.

Sincerely,

Bob Howe  
Water Resource Agent, Sr.

Enclosure(s): Application for Amendment