

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 86-12043
Exam Date: 07/08/2021

1. Current Owner:
RANDY CHARLTON 234 E VISTA CT SARATOGA SPGS UT 84045-8114
2. Accompanied by: Randy Charlton
Phone No: 801-592-7058
Address: Same as above
Relationship to permit Holder: Permit Holder

3. SOURCE:

SPRING
SPRING

Tributary

SINKS
SINKS

Method of Determination: Arcmap and DRG.

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
86-10661	GROUNDWATER	DOMESTIC	DECREED

Comments: Right 86-10661 has been decreed in the SRBA, and uses groundwater for domestic purposes that are not associated with the applicant's parcel. There is no concern for overlap.

2. Other water rights with the same point-of-diversion: NO Overlap

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

SPRING NE¼ NE¼ SE¼, Sec. 1, Twp 38N, Rge 01W, B.M. LATAH County
SPRING NE¼ NE¼ SE¼, Sec. 1, Twp 38N, Rge 01W, B.M. LATAH County

Method of Determination: GPS. POD(s) are two separate springs with spring boxes located at -116° 23.642, 46° 39.928 and -116° 23.636, 46° 39.907.

PLACE OF USE: DOMESTIC

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
38N	01W	1													X				

Method of Determination: field exam and Arcmap aerial imagery.

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.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
SPRING BOX 1		N/A			
SPRING BOX 2		N/A			

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NONE						

2. Measurements: Flow measurements were not completed due to inadequate pipe requirements. Each spring POD incorporated a buried spring box with small poly pipe flowing to a small collection cistern, which then routed flow down grade to a common storage tank before uses. Photographs were taken of each collection cistern, which show very low flow from each POD equating to less than 0.5 gpm. The combined use between the two PODs are still considerably less than 4.5 gpm, and the diversion rate recommended for licensing equals **0.01 cfs**, the minimal Department diversion rate for licensing purposes.

E. FLOW CALCULATIONS

Measured Method: 2ea vaulted small collection cisterns captured spring water from 2ea POD spring boxes; photographs illustrate clearly very low flow from each cistern, less than 0.5 gpm. I was unable to place a 4-cup measuring device in the tank due to space limitations. As such, combined flow between respective PODs equals approximately 1.0 gpm or 0.01 cfs which is the smallest Department diversion rate for licensing purposes.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A
2. Volume Calculations for Other Uses: Domestic annual volume and maximum diversion volume = **1.2 AF**.

G. NARRATIVE/REMARKS/COMMENTS

Field exam performed on 7/8/2021 with the applicant, Randy Charlton, showed spring water being diverted for domestic use. The permit was approved for a single POD, and during the field exam the applicant had developed two separate spring box collection cisterns from the same spring area. The applicant had achieved very low flow from the initial spring box development, and had sunk another spring box to gain additional instantaneous flow from the spring source. An Application for Amendment was sent to the applicant in order to add the second POD to the permit during licensing review. The applicant was approved to develop stockwater use under this permit, but at time of field exam stockwater use had not been developed; the stockwater beneficial use was removed from the permit during licensing review.

At the POD(s) 2ea vaulted small collection cisterns captured spring water from 2ea POD spring boxes; photographs illustrate clearly there is very low flow from each cistern, less than 0.5 gpm. I was unable to place a 4-cup measuring device in the tank due to space limitations. As such, a combined flow between respective PODs equals approximately 1.0 gpm or **0.01 cfs** which is the smallest Department diversion rate for licensing purposes. The two PODs are diverting water from the

same spring source system, and spring water flows from each cistern to a common 1,100 gallon storage tank. From the tank water is pumped uphill approximately 400 feet to a second 1,600 gallon storage tank prior to domestic use. Water is gravity fed from the upper storage tank down grade approximately 100 feet to the domestic POU.

During the field exam, the domestic POU was observed as a small shop/home with a recreational RV hook up for intermittent summer time use. The POU was sketched on field maps, and Arcmap aerial imagery was used to trace the domestic POU during licensing review. There are four (4) frost free hydrants installed in the water system, from which irrigation up to ½ acre occurs by hose and sprinkler around the perimeter of the POU to water grass and fruit trees. The annual volume recommended for licensing equals **1.2 af**, and shall be designated as the maximum diversion volume on the license.

Conditions 26A and X02 were removed from the permit during licensing review. All other conditions on the permit shall be carried forward to the license. Right 86-10661 has been decreed in the SRBA, and uses groundwater for domestic purposes that are not associated with the applicant's parcel. There is no concern for overlap from right 86-10661, and there are no additional overlap concerns for this water right.

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>Rate of Diversion</u>	<u>Annual Volume</u>
DOMESTIC	01/01 to 12/31	0.01 CFS	1.2 AF
<u>Totals:</u>		0.01 CFS	1.2 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

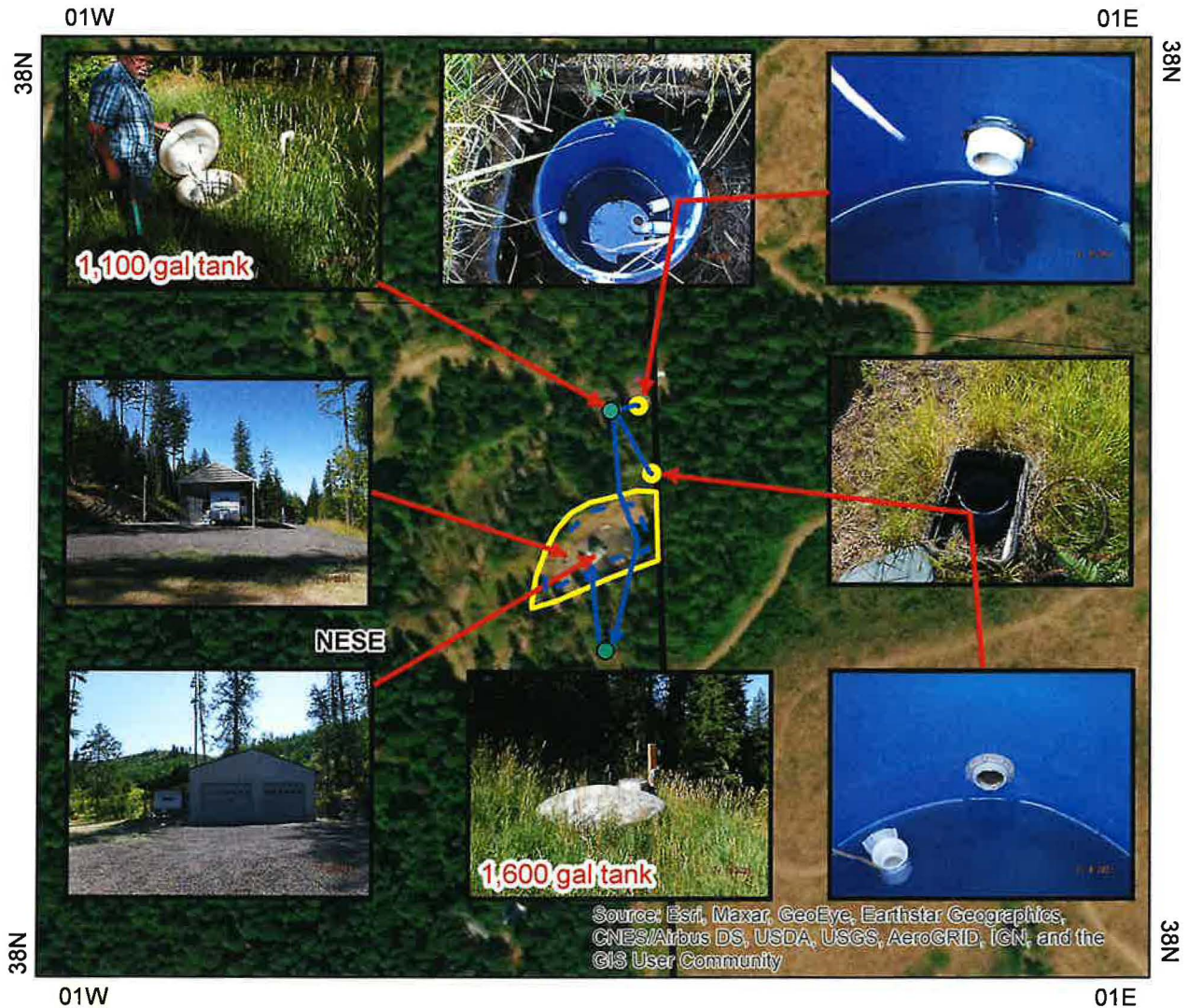
I. AUTHENTICATION Luke Bates - Water Resource Agent

Field Examiner's Name LB Date 8/13/2021

Reviewer Adh Fink Date 10/29/2021

State of Idaho
Department of Water Resources
Attachment to Field Exam
86-12043

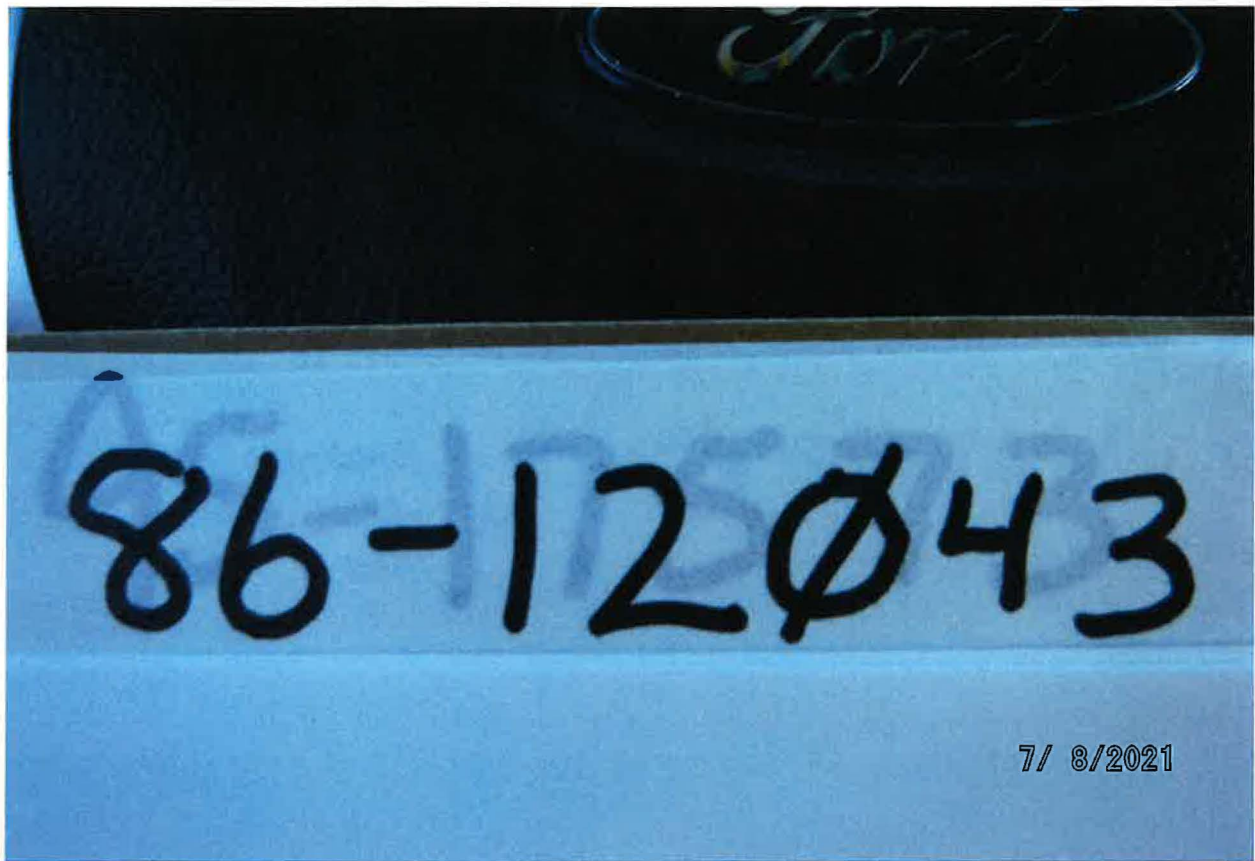
DOMESTIC system diagram.



- 01W 01E
- Point of Diversion
 - Place Of Use Boundary
 - Townships
 - PLS Sections
 - Quarter Quarters

0 0.035 0.07 0.14 Miles

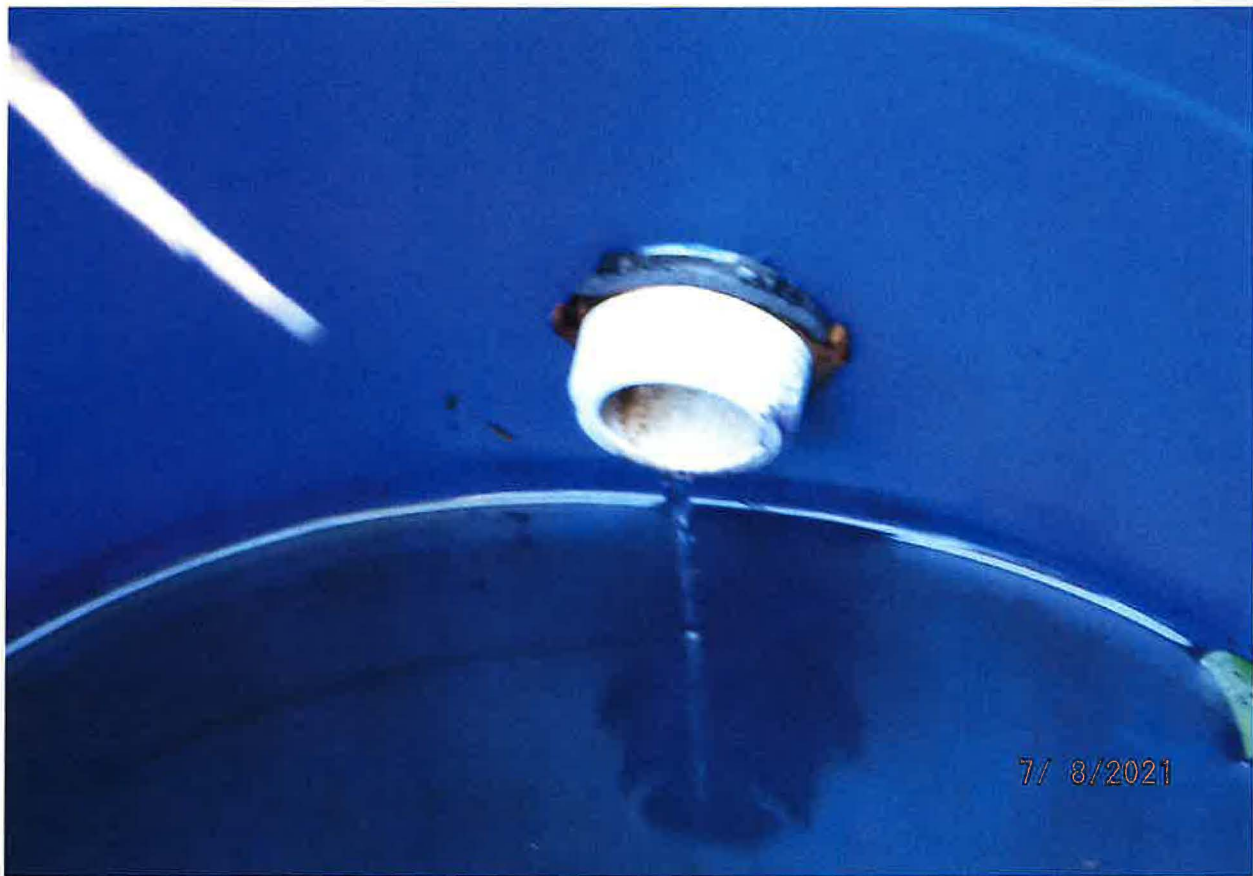




FIELD EXAM DATE 7/8/2021



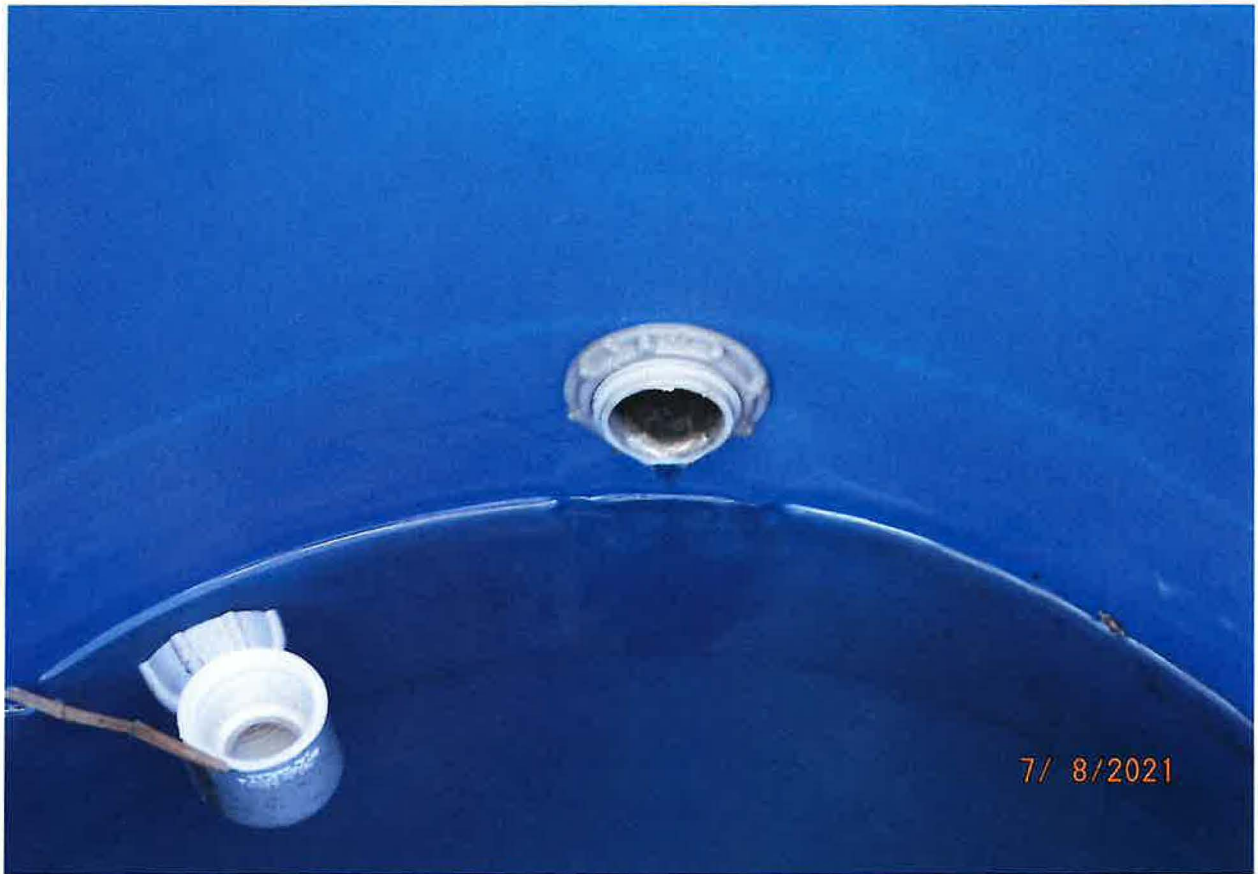
LOWER ELEVATION SPRING POD – PERFORATED PIPE SPRING BOX TO BUCKET



LOWER ELEVATION SPRING POD – FLOW RATE < 0.5 GPM



HIGHER ELEVATION SPRING POD - PERFORATED PIPE SPRING BOX TO BUCKET



HIGHER ELEVATION SPRING POD – FLOW RATE < 0.5 GPM



2EA SPRING POD HAVE PVC PIPE THAT FLOW INTO VAULTED 1,100 GALLON CISTERN



1,100 GAL CISTERN – WATER PUMPED FROM CISTERN UPGRADE TO SECONDARY STORAGE TANK



1,600 GAL STORAGE TANK – RECEIVES WATER FROM CISTERN, AND APPLIES GRAVITY FLOW TO POU



DOMESTIC POU – SHOP HOME WITH RV SLIP





UP TO ½ ACRE IRRIGATION COVERED UNDER DOMESTIC USE AT POU





TREES IRRIGATED FROM FROST FREE HYDRANT – TO – HOSE & SPRINKLER





TREES IRRIGATED FROM FROST FREE HYDRANT – TO – HOSE & SPRINKLER

