

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 98-7810

Exam Date: 8/1/2012

1. Current Owner: SMITH CREEK NURSERY LLC
3040 DISTRICT TWO RD
BONNERS FERRY ID 83805
(208) 267-3020
2. Accompanied by: Owners family
Phone No:
Address:
Relationship to Permit Holder:

3. **SOURCE****TRIBUTARY**

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 98-7803, 98-2133 BEE LINE MUNICIPAL
2. Other water rights with the same point of diversion: NONE

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

GROUND WATER NE1/4SW1/4 Sec. 1, Twp 62N, Rge 01E, B.M. BOUNDARY 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	
62N	01E	1									27.0								27.0

Total Acres: 27

Method of Determination:

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
D0017660	FRANKLIN	7.5 HP	2822019310	FRANKLIN

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

D. FLOW MEASUREMENTS

PUMP EQUATIONS WATER RIGHT No. 98-7810						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	7.5	209.0816327	0.7	105	45
Q = 0.221 cfs 99.3 gpm						

2. Measurements:

E. FLOW CALCULATIONS

Measured Method:

____ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 27 \times 3 \text{ AF} = 81 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.22 \times 214 \times 1.9835 = 93.4 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 81 \text{ AF}$$

2. Volume Calculations for Other Uses: NONE

G. NARRATIVE/REMARKS/COMMENTS: Drip irrigation system is used for the Nursery and hand pipe for all other irrigation use.

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	0.220 CFS	81.00 AF
<u>Totals:</u>		0.220 CFS	81.00 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

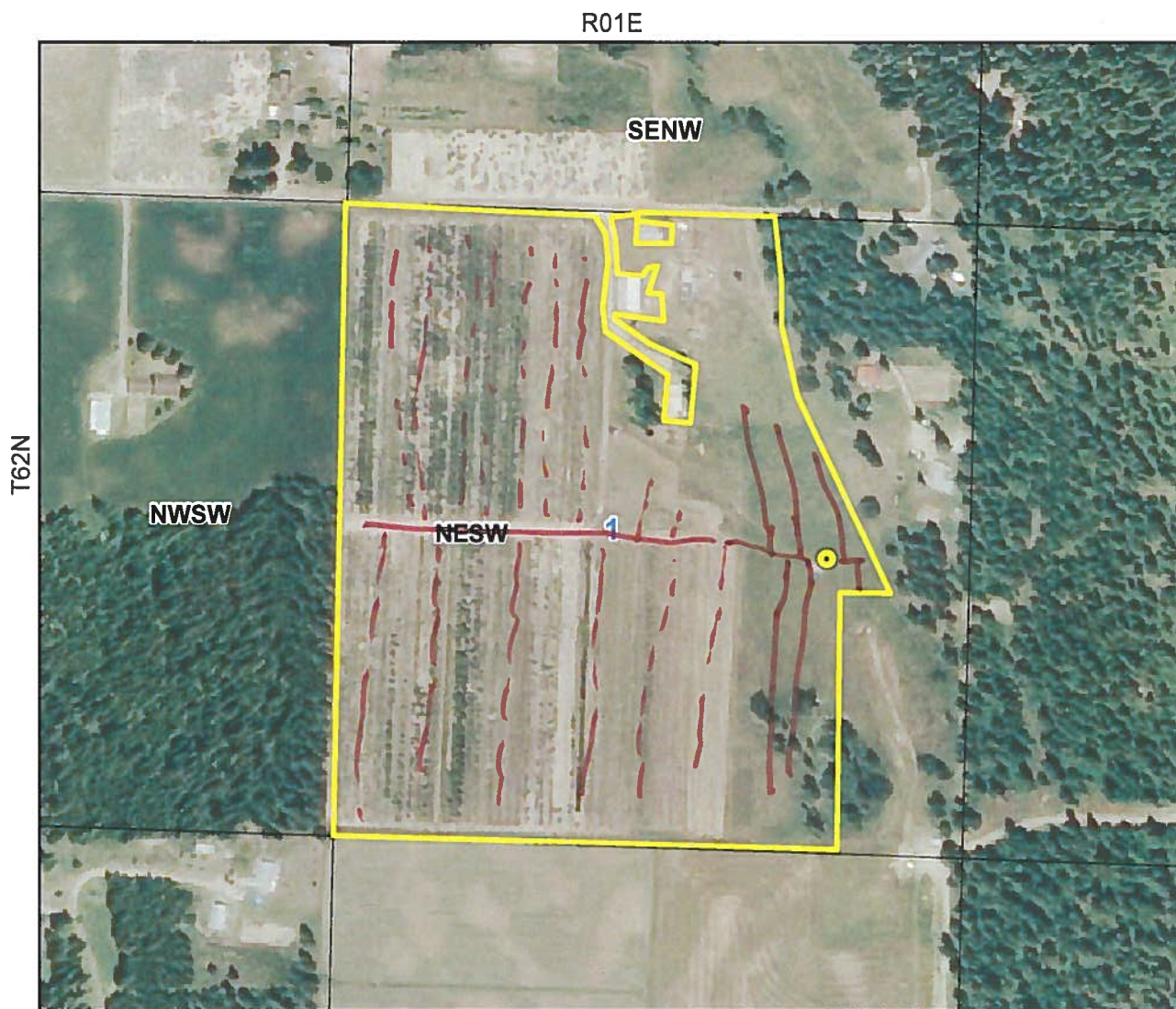
Field Examiner's Name Eric J. [Signature] Date 01-02-2013

Reviewer Keith [Signature] Date 1/10/13

State of Idaho
Department of Water Resources
Water Right License
98-7810

SYSTEM

Water Service Area Boundary for Smith Creek Nursery Llc



— Hand Pipe
--- Drip Irrigation

0 0.045 0.09 0.18 Miles

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





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WELL ID .JPG



PUMP .JPG



PIPES .JPG



IRRR SYSTEM .JPG



TREES .JPG



WELL.JPG



SYSTEM .JPG

