

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-10971

Exam Date: 5/13/2013

1. Current Owner: EAGLE CENTER PROPERTIES LLC
C/O ALBANY BOWL
540 SAN PABLO AVE
ALBANY CA 94706
(510) 526-8818
2. Accompanied by: Ken Friedman & Jesse Avery
Phone No: Same
Address: Same
Relationship to Permit Holder: Managing Member & Site Manager

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 63-7740
2. Other water rights with the same point of diversion: 63-7740

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

GROUND WATER	SE1/4SW1/4	Sec. 9,	Twp 04N,	Rge 01E, B.M.
ADA County				
GROUND WATER	SE1/4SW1/4	Sec. 9,	Twp 04N,	Rge 01E, B.M.
ADA County				

Method of Determination: Arc Map (Aerial Photo); GPS – Latitude N.43°41.556', Longitude W.116°20.765'; Datum – NAD83.

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	
04N	01E	9												4.0					4.0

Total Acres: 4

COMMERCIAL same as IRRIGATION

Method of Determination: Arc Map (Aerial Photo); Tax Lots.

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.

<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>
N/A	Unknown	7.5	Unknown	Jacuzzi	BL10-21; 4"
N/A	Unknown	7.5	Unknown	Berkeley	M11364; 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>
N/A						

2. Measurements: No field measurement. Large steel storage/pressure tank maintains a system operating pressure of 54 psi.

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 15/60 + (2.31 \times 54) = 92.4/184.74 = 0.50 \text{ cfs}$$

$$Q(\text{theoretical}) = 0.50 \text{ cfs} < 1.20 \text{ cfs } Q(\text{permit})$$

HP = 15 (2 7.5 HP Pumps)
Z = 60' (Estimated)
P = 54 psi

Note: The domestic use for the 61-unit development was licensed under Water Right 63-7740, which appropriated a diversion rate of 0.38 cfs. Therefore, the domestic beneficial use will be removed prior to licensing. By removing the domestic use from the permit, the total diversion rate is reduced to 0.60 cfs.

Appears that the current pumping system cannot attain the permit diversion rate of 1.20 cfs, or the reduced diversion rate of 0.60 cfs. Based on the system pumping capacity of 0.50 cfs, and with the licensed water appropriation of 0.38 cfs for Water Right 63-7740, recommend a diversion rate of 0.12 cfs for the commercial and irrigation beneficial Uses ($Q = 0.50 - 0.38 = 0.12 \text{ cfs}$).

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 4.0 \times 4.5 = 18.0 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.12 \times 260 \times 1.9835 = 61.9 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 18.0 \text{ AFA}$$

2. Volume Calculations for Other Uses: Commercial

$$\text{Commercial} - 48 \text{ Fixtures} \quad Q = 48 \times 1.1 \text{ gpm} = 52.8 \text{ gpm (0.12 cfs); Estimated hours/week} - 10$$

$$V(\text{Commercial}) = 52.8 \text{ gpm} \times 10 \text{ hrs/week} = 528.0 \text{ gpm} \times 60 \text{ min.} = 31,680 \text{ gallons/week}$$

$$\text{Gallons/year} = 31,680 \text{ gallons/week} \times 52 \text{ weeks} = 1,647,360 \text{ gallons/325,850 gallons/AF} = 5.1 \text{ AFA}$$

$$V(\text{Commercial}) = 5.1 \text{ AFA}$$

G. NARRATIVE/REMARKS/COMMENTS**WATER SUPPLY SYSTEM:**

Two ground water wells, each with 7.5-HP centrifugal pumps, provides water to the Eagle Meadows Village 61-unit mobile home park, and 19 commercial units at the north end of the property near State Street. The 12" well is the main water supply well to the development. The 10" well is the backup well. The wells, pressure/storage tank, and controls are located in a large pump house at the southeast corner of the development.

The wells discharge to an approximate 3,000 gallon steel pressure/storage tank located in the pump house. The water system provides water for domestic use for the 61-Unit Eagle Meadows Village (Water Right 63-7740), the 19 commercial units, and for irrigation of the lawn, landscaping, and common areas within the development. Although the development is located within the service area of the Eagle Water Company, the development is not served by the Eagle Water Company.

OVERLAP ANALYSIS:

Point of Diversion: Water Right Permit No. 63-10971 and Water Right No. 63-7740 have the same points of diversion.

Place of Use: Water Right Permit No. 63-10971 and Water Right 63-7740 have overlapping places of use. Both provide water to the 61-Unit Eagle Meadows Village.

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

CONDITION NO.1: Prior to diversion of water, a flow measurement port or other device shall be installed. The right holder has installed a Hersey Volumetric Flow Meter to measure water usage for the development. The right holder has complied with Condition No.1.

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	1.20	&/or	N/A
Beneficial Use Limit	0.55	&/or	N/A
System Measurement	0.50 (theoretical)	&/or	N/A
Proof Fee Amount	2.00	&/or	N/A
Recommended Amount	0.12	&/or	N/A

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
COMMERCIAL	1/01 to 12/31	0.120 CFS	5.1 AFA
IRRIGATION	3/15 to 11/15	0.120 CFS	18.0 AFA
<u>Totals:</u>		0.120 CFS	23.1 AFA

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 ___ Other

I. AUTHENTICATION

Field Examiner's Name *Rick Collingwood* Date 9/18/13

Reviewer _____ Date _____

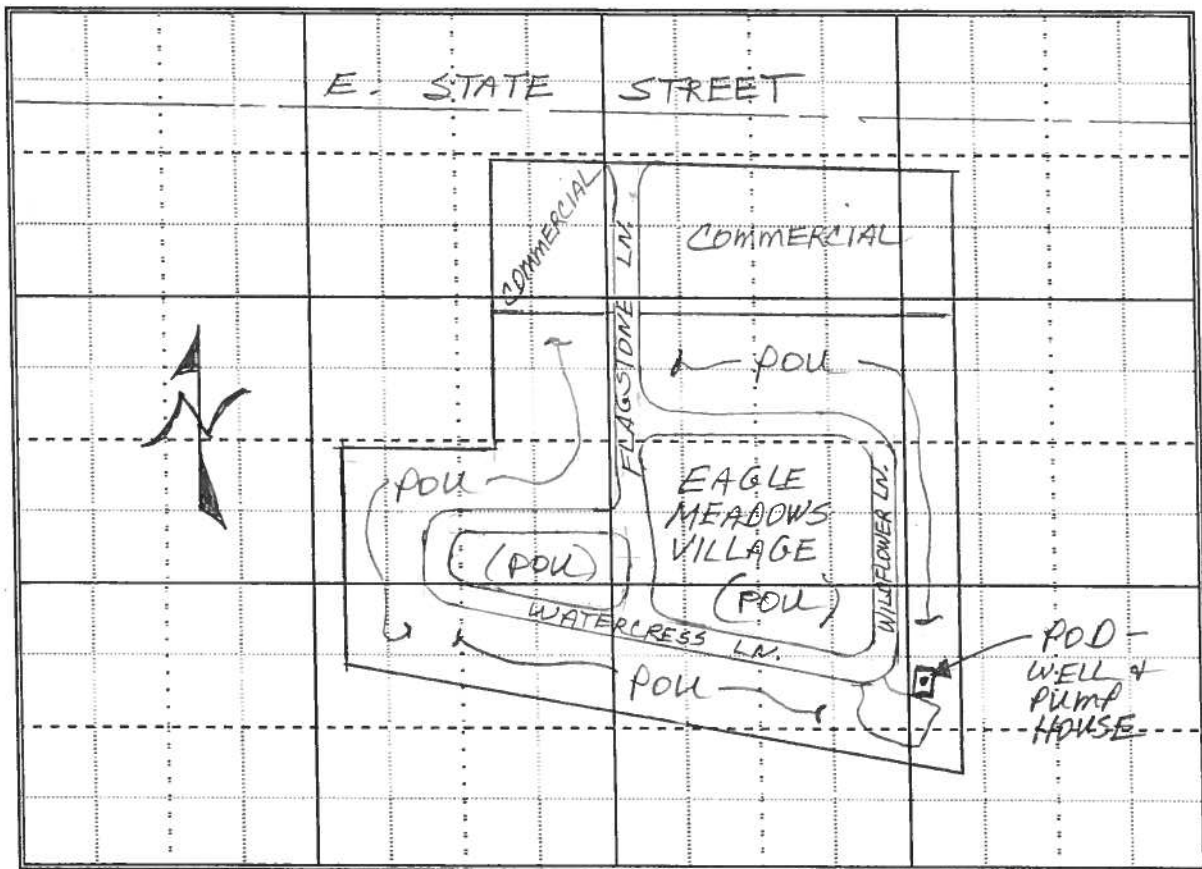
63-10971

ESRI AERIAL PHOTO - 2012



0 80 160 320 480 640 Feet

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.



Scale: 1" = NTS

- ☐ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required)
☒ Aerial photo attached (required for irrigation of 10+ acres)
☒ Photo of diversion and system attached

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources
within 30 days after the completion or abandonment of the well.

1. WELL OWNER

Name Richard B. Smith
Address 2417 Bogus Basin Rd.
Boise ID, USA
Owner's Permit No. _____

7. WATER LEVEL

Static water level +1 feet below land surface.
Flowing? ☒ Yes ☐ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☒ Valve ☐ Cap ☐ Plug
Temperature _____ of Quality _____

2. NATURE OF WORK

63-86-C-0003-000

☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning) _____

8. WELL TEST DATA

☐ Pump ☐ Bailer ☒ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
<u>200+</u>	<u>60'</u>	<u>1</u>

3. PROPOSED USE

☐ Domestic ☒ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)

9. LITHOLOGIC LOG

Hole Diam.	Depth		Material	Water	
	From	To		Yes	No
<u>10"</u>	<u>0</u>	<u>1</u>	<u>TOP SOIL</u>		
	<u>1</u>	<u>22</u>	<u>GRAVEL & SAND</u>		
	<u>22</u>	<u>25</u>	<u>SAND</u>		
	<u>25</u>	<u>31</u>	<u>CLAY</u>		
	<u>31</u>	<u>39</u>	<u>SAND</u>		
	<u>39</u>	<u>47</u>	<u>CLAY</u>		
	<u>47</u>	<u>52</u>	<u>SAND</u>		
	<u>52</u>	<u>61</u>	<u>CLAY SANDY</u>		
	<u>61</u>	<u>73</u>	<u>SAND - Small GRAVEL</u>		
	<u>73</u>	<u>78</u>	<u>REAL CLEAN - COARSE</u>		
	<u>78</u>	<u>83</u>	<u>yellow SANDY CLAY</u>		
	<u>83</u>	<u>87</u>	<u>SAND</u>		
	<u>87</u>	<u>113</u>	<u>SANDY CLAY</u>		
	<u>113</u>	<u>118</u>	<u>SAND</u>		
	<u>118</u>	<u>147</u>	<u>SANDY CLAY</u>		
	<u>147</u>	<u>150</u>	<u>SAND - dirty & FINE</u>		
	<u>150</u>	<u>165</u>	<u>SAND to Sm. GRAVEL</u>		
	<u>165</u>	<u>168</u>	<u>CLAY</u>		
	<u>168</u>	<u>173</u>	<u>Blue CLAY</u>		
	<u>173</u>	<u>182</u>	<u>CLAY - yellow, SANDY</u>		
	<u>182</u>	<u>184</u>	<u>muddy SAND</u>		
	<u>184</u>	<u>200</u>	<u>SAND, clean small GRAVEL</u>		
	<u>200</u>	<u>202</u>	<u>CLAY</u>		
	<u>202</u>	<u>206</u>	<u>Coarse SAND & Sm. GRAVEL</u>		
	<u>206</u>	<u>-</u>	<u>CLAY</u>		

4. METHOD DRILLED

☐ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary
☒ Cable ☐ Dug ☐ Other _____

5. WELL CONSTRUCTION

Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____

Thickness	Diameter	From	To
<u>.250</u> inches	<u>10</u> inches	<u>1</u> feet	<u>178</u> feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was casing drive shoe used? ☒ Yes ☐ No

Was a packer or seal used? ☒ Yes ☐ No

Perforated? ☐ Yes ☒ No

How perforated? ☐ Factory ☐ Knife ☐ Torch

Size of perforation _____ inches by _____ inches

Number	From	To
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet

Well screen installed? ☒ Yes ☐ No

Manufacturer's name Johnson

Type SS Model No. _____

Diameter _____ Slot size, 20/25 Set from 184 feet to 204 feet

Diameter _____ Slot size _____ Set from _____ feet to _____ feet

Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____

Placed from _____ feet to _____ feet

Surface seal depth 18 Material used in seal: ☐ Cement grout

☒ Puddling clay ☒ Well cuttings

Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing

Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent

Weld _____

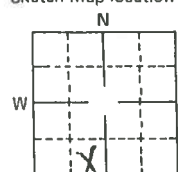
☐ Cemented between strata

Describe access port _____

RECEIVED
JUL - 2 1997
Department of Water Resources
Western Regional Office

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name _____

Lot No. _____ Block No. _____

County Ada
SE 1/4 SW 9 Sec. 4 T. 4 N. R. 1 E.

11. DRILLERS CERTIFICATION

I/We certify that all minimum well construction standards were
complied with at the time the rig was removed.

Firm Name PHIPPS Drilling Firm No. 311

Address 7015 McGlochin Date _____

Signed by (Firm Official) Boise

and
(Operator) [Signature]

FIELD EXAM PHOTOS

Water Right Permit: 63-10971

Field Exam Date: 5-13-13

PLS: SE1/4, SW1/4 Section 9, T.4N, R.01E.

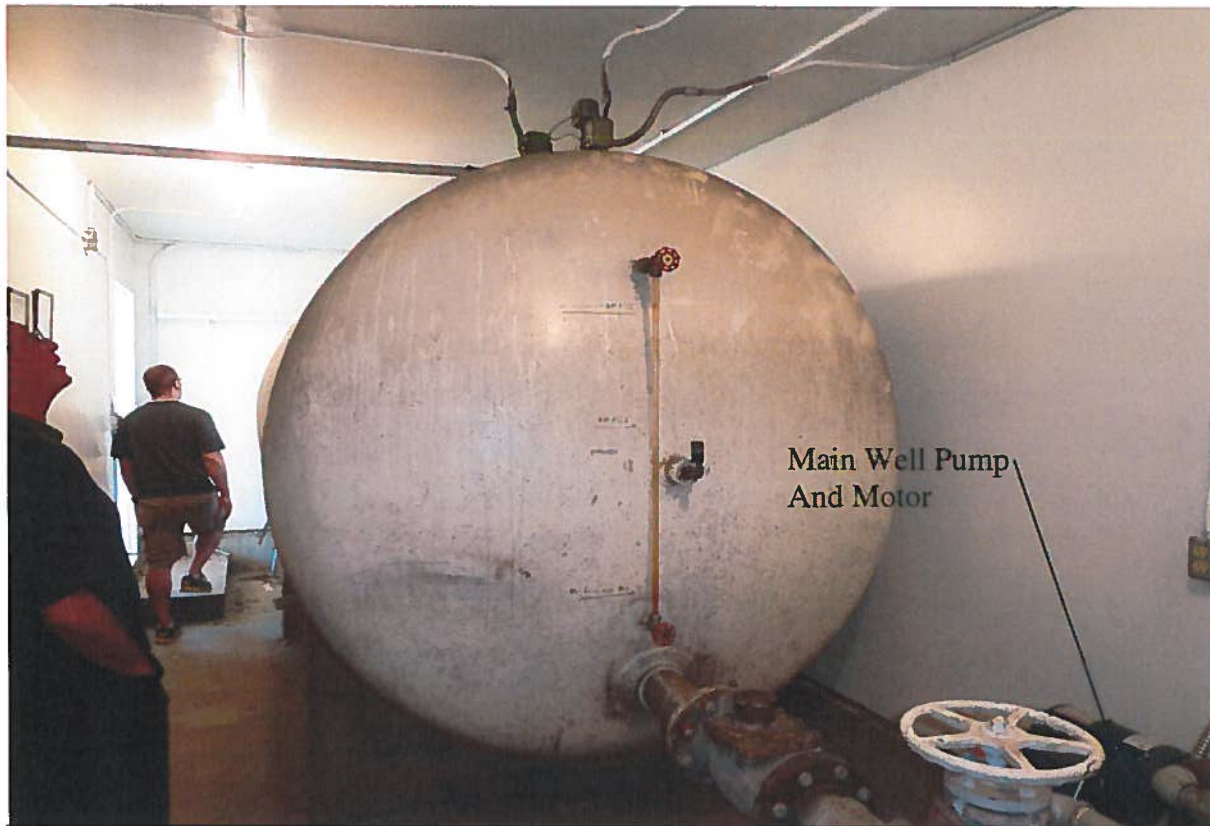
Field Examiner: RC



Point of Diversion: View of the 12" main well, 4" discharge main line, and 4" pressure/storage tank flush line in the pump house. A 7.5 hp centrifugal well pump, which is located in the main section of the pump house, diverts water to an approximate 3,000 gallon steel pressure/storage tank located in the pump house.



Point of Diversion: View inside the pump house of the 10" backup well and 4" discharge piping. The 7.5 hp centrifugal well pump and motor is shown mounted on a concrete block.



View of the estimated 3,000 gallon pressure/storage tank in the pump house. The 7.5 hp centrifugal well pump for the main well is shown to the right.



View southeasterly of the pump house located at the southeast corner of the development.



Place of Use: View northerly of the 61-unit mobile home park formally known as Eagle Meadows Village.



Place of Use: View southeasterly of a portion of the 19-unit commercial center and common area located near State Street.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: www.idwr.idaho.gov

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

April 17, 2013

Eagle Center Properties, LLC
c/o Albany Bowl
540 San Pablo Avenue
Albany, CA 94706

RE: Scheduling Field Exam for Water Right Permit No. 63-10971

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of April 29, 2013**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal operating conditions during the examination. The permit authorizes the diversion of 1.2 cfs of ground water for domestic use, irrigation of 15.0 acres, and commercial use.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by April 26, 2013, to conduct the exam during the week of April 29, 2013.** If there is a problem with scheduling or conducting the examination at this time, please let me know so we can reschedule or make other arrangements.

I appreciate your attention to this matter and I look forward to hearing from you.

Sincerely,

Rick Collingwood, P.E.
Water Resource Agent, Sr.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

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C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

April 2, 2013

Eagle Center Properties, LLC
c/o Albany Bowl
Albany, CA 94706

RE: Scheduling Field Exam for Water Right Permit No. 63-10971

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of April 15, 2013**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal operating conditions during the examination. The permit authorizes the diversion of ground water for domestic use, irrigation, and commercial use.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by April 12, 2013, to conduct the exam during the week of April 15, 2013.** If there is a problem with scheduling or conducting the examination at this time, please let me know so we can reschedule or make other arrangements.

I appreciate your attention to this matter and I look forward to hearing from you.

Sincerely,

A handwritten signature in black ink that reads "Rick Collingwood". The signature is written in a cursive, flowing style.

Rick Collingwood, P.E.
Water Resource Agent, Sr.