



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

August 20, 2013

REDCLIFF PARTNERS LP
A CALIFORNIA LTD PARTNERSHIP
567 SAN NICOLAS DR STE 340
NEWPORT BEACH CA 92660

RE: License No. 37-8221

Issuance of License

Dear Water Right Holder(s):

The Department of Water Resources has issued the enclosed Water Right License confirming that a water right has been established in accordance with your permit. Please be sure to thoroughly review the conditions of approval and remarks listed on your license.

The license is a PRELIMINARY ORDER issued by the Department pursuant to section 67-5243, Idaho Code. It can and will become a final order without further action by the Department unless a party petitions for reconsideration or files an exception and/or brief within fourteen (14) days of the service date as described in the enclosed information sheet.

Please note that water right owners are required to report any change of water right ownership and/or mailing address to the Department within 120 days of the change. Failure to report these changes could result in a \$100 late filing fee. Contact any office of the Department or visit the Department's homepage on the Internet to obtain the proper forms and instructions.

If you have any questions, please contact me at 208-287-4916.

Sincerely,

Craig L. Saxton

Water Rights Supervisor

Enclosure(s)

CERTIFICATE OF SERVICE

I hereby certify that on August 21, 2013, I mailed a true and correct copy, postage prepaid, of the foregoing PRELIMINARY ORDER (Approved License) to the person(s) listed below:

RE: WATER RIGHT NO. 37-8221

**REDCLIFF PARTNERS LP
A CALIFORNIA LTD PARTNERSHIP
567 SAN NICOLAS DR STE 340
NEWPORT BEACH CA 92660**

A handwritten signature in blue ink, reading "Darla Block", is written over a horizontal line.

**Darla Block
Technical Records Specialist**

EXPLANATORY INFORMATION TO ACCOMPANY A PRELIMINARY ORDER

(To be used in connection with actions when a hearing was not held)

(Required by Rule of Procedure 730.02)

The accompanying order or approved document is a "Preliminary Order" issued by the department pursuant to section 67-5243, Idaho Code. It can and will become a final order without further action of the Department of Water Resources ("department") unless a party petitions for reconsideration, files an exception and brief, or requests a hearing as further described below:

PETITION FOR RECONSIDERATION

Any party may file a petition for reconsideration of a preliminary order with the department within fourteen (14) days of the service date of this order. **Note: the petition must be received by the department within this fourteen (14) day period.** The department will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See Section 67-5243(3) Idaho Code.

EXCEPTIONS AND BRIEFS

Within fourteen (14) days after: (a) the service date of a preliminary order, (b) the service date of a denial of a petition for reconsideration from this preliminary order, or (c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration from this preliminary order, any party may in writing support or take exceptions to any part of a preliminary order and may file briefs in support of the party's position on any issue in the proceeding with the Director. Otherwise, this preliminary order will become a final order of the agency.

REQUEST FOR HEARING

Unless a right to a hearing before the Department or the Water Resource Board is otherwise provided by statute, any person aggrieved by any final decision, determination, order or action of the Director of the Department and who has not previously been afforded an opportunity for a hearing on the matter may request a hearing pursuant to section 42-1701A(3), Idaho Code. A written petition contesting the action of the Director and requesting a hearing shall be filed within fifteen (15) days after receipt of the denial or conditional approval.

ORAL ARGUMENT

If the Director grants a petition to review the preliminary order, the Director shall allow all parties an opportunity to file briefs in support of or taking exceptions to the preliminary order and may schedule oral argument in the matter before issuing a final order. If oral arguments are to be heard, the Director will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Director orders otherwise, all oral arguments will be heard in Boise, Idaho.

CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Director in connection with the preliminary order shall be served on all other parties to the proceedings in accordance with IDAPA Rules 37.01.01302 and 37.01.01303 (Rules of Procedure 302 and 303).

FINAL ORDER

The Director will issue a final order within fifty-six (56) days of receipt of the written briefs, oral argument or response to briefs, whichever is later, unless waived by the parties or for good cause shown. The Director may remand the matter for further evidentiary hearings if further factual development of the record is necessary before issuing a final order. The department will serve a copy of the final order on all parties of record.

Section 67-5246(5), Idaho Code, provides as follows:

Unless a different date is stated in a final order, the order is effective fourteen (14) days after its service date if a party has not filed a petition for reconsideration. If a party has filed a petition for reconsideration with the agency head, the final order becomes effective when:

- (a) The petition for reconsideration is disposed of; or
- (b) The petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

APPEAL OF FINAL ORDER TO DISTRICT COURT

Pursuant to sections 67-5270 and 67-5272, Idaho Code, if this preliminary order becomes final, any party aggrieved by the final order or orders previously issued in this case may appeal the final order and all previously issued orders in this case to district court by filing a petition in the district court of the county in which:

- i. A hearing was held,
- ii. The final agency action was taken,
- iii. The party seeking review of the order resides, or
- iv. The real property or personal property that was the subject of the agency action is located.

The appeal must be filed within twenty-eight (28) days of this preliminary order becoming final. See section 67-5273, Idaho Code. The filing of an appeal to district court does not itself stay the effectiveness or enforcement of the order under appeal.

State of Idaho
Department of Water Resources
Water Right License

WATER RIGHT NO. 37-08221

Priority: June 25, 1985

Maximum Diversion Rate: 0.06 CFS
Maximum Diversion Volume: 7.3 AF

It is hereby certified that REDCLIFF PARTNERS LP
A CALIFORNIA LTD PARTNERSHIP
567 SAN NICOLAS DR STE 340
NEWPORT BEACH CA 92660 has complied with the terms and
conditions of the permit, issued pursuant to Application for Permit dated June 25, 1985; and has
submitted Proof of Beneficial Use on May 29, 1990. An examination confirms water is diverted from:

SOURCE

GROUND WATER

and a water right has been established as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL DIVERSION VOLUME</u>
DOMESTIC	01/01 to 12/31	0.02 CFS	0.6 AF
IRRIGATION	04/15 to 10/31	0.06 CFS	6.7 AF

LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER NW1/4NW1/4 Sec. 32, Twp 04N, Rge 18E, B.M. BLAINE County

PLACE OF USE: DOMESTIC

Twp Rge Sec	NE				NW				SW				SE				
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
04N 18E 32						X											

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
04N 18E 31	.3																.3
04N 18E 32							1.6										1.6

Total Acres: 1.9

CONDITIONS OF APPROVAL

1. The issuance of this right does not grant any right-of-way or easement across the land of another.

State of Idaho
Department of Water Resources
Water Right License

WATER RIGHT NO. 37-08221

2. Domestic use is for 1 homes. Irrigation of lawn, garden and landscaping associated with the home is authorized under the irrigation component of this right.
3. This water right enjoys the benefit of unqualified subordination of hydropower water right nos. 02-00100, 02-4000A, 02-4001A, 02-2032A, 02-4000B, 02-4001B, 02-2032B, 02-02036, 02-02056, 02-02065, 02-02064, 02-10135, 02-02060, 02-02059, 02-02001B, 02-02001A, 02-02057, 37-02128, 37-02472, 37-02471, 37-20710, 37-20709, 36-02013, 36-02018 and 36-02026.
4. This right when combined with all other rights shall provide no more than 0.03 cfs per acre nor more than 3.5 afa per acre at the field headgate for irrigation of the place of use.

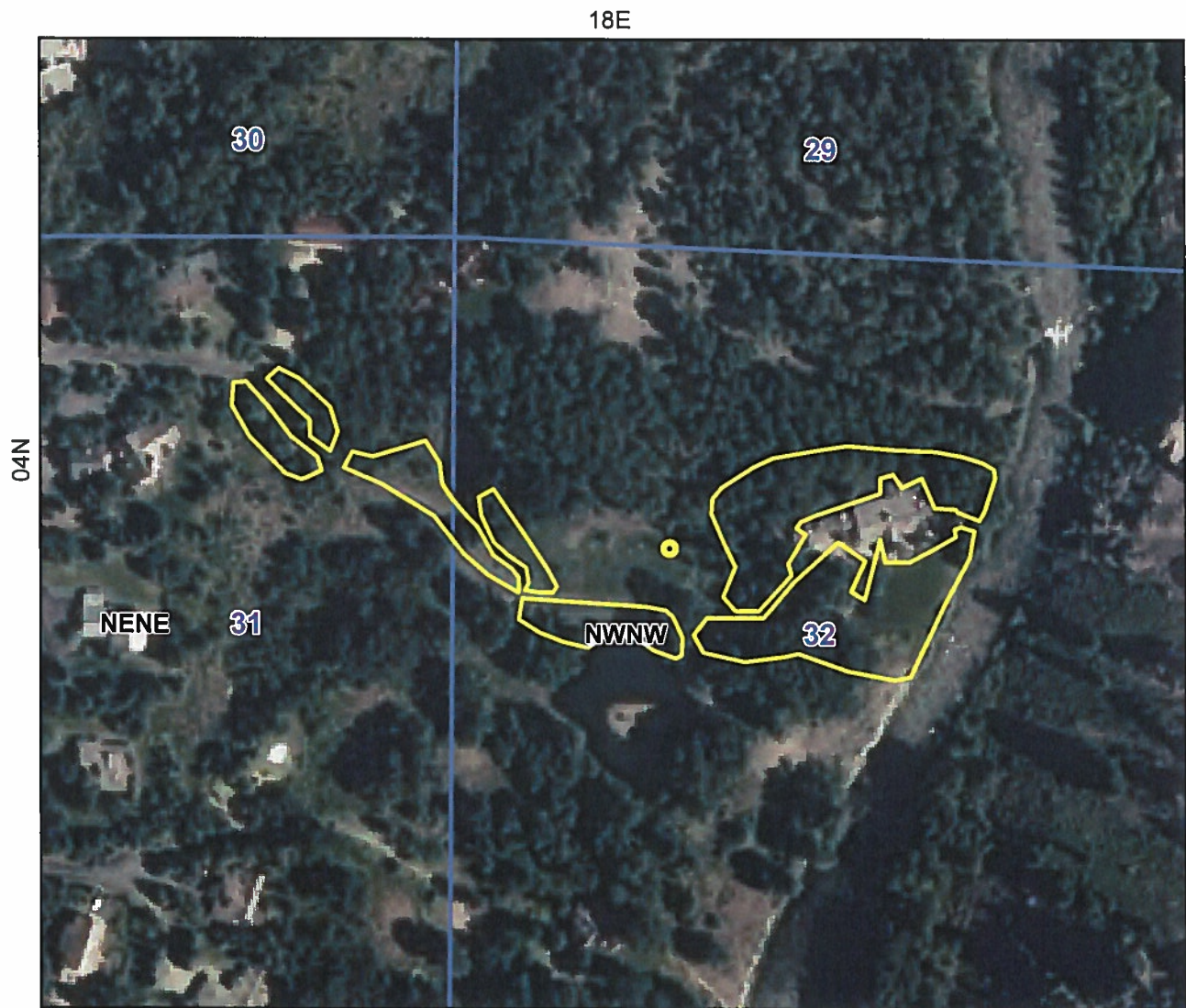
This license is issued pursuant to the provisions of Section 42-219, Idaho Code. The water right confirmed by this license is subject to all prior water rights and shall be used in accordance with Idaho law and applicable rules of the Department of Water Resources.

Signed this 20th day of August, 2013.


For **GARY SPACKMAN**
Director

State of Idaho
Department of Water Resources
Attachment To Water Right License
37-8221

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



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

0 0.025 0.05 0.1 Miles



State of Idaho
Department of Water Resources
Attachment To Water Right License
37-8221

This map depicts the DOMESTIC place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.

18E



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

0 0.01 0.02 0.04 Miles



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-8221

Exam Date: 6/26/2012

1. Current Owner: REDCLIFF PARTNERS LP
A CALIFORNIA LTD PARTNERSHIP
567 SAN NICOLAS DR STE 340
NEWPORT BEACH CA 92660
(949) 718-6200
2. Accompanied by: Ranney E. Draper
Phone No: (949)500-5842
Address: 567 San Nicolas Dr. Ste 340, Newport Beach, CA 92660
Relationship to Permit Holder: current owner

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None. 37-8153 different well and different POU; 37-20440, 37-20441, and 37-21176 are all three Big Wood River sources for Recreation, Wildlife, Aesthetic (ponds).
2. Other water rights with the same point of diversion: None. 37-8153 different well and different POU; 37-20440, 37-20441, and 37-21176 are all three Big Wood River sources for Recreation, Wildlife, Aesthetic (ponds).

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

GROUND WATER NW1/4NW1/4 Sec. 32, Twp 04N, Rge 18E, B.M. BLAINE County

Method of Determination: Garmin GPS Map, ArcMap 2009 imagery

2.

PLACE OF USE: DOMESTIC

Twp Rge Sec	NE				NW				SW				SE				Totals
	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
04N 18E 32						X											

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
04N 18E 31	.3																.3
04N 18E 32						1.6											1.6

Total Acres: 1.9

Method of Determination: Garmin GPS Map, ArcMap 2009 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.

<u>Well or Diversion</u> <u>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</u> <u>Size</u>
A0016963	unknown	unknown	unknown	unknown	2-inch (run at 49 psi)

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

D. FLOW MEASUREMENTS

1. Measurements:

Theoretical: No Hp information, therefore no theoretical could be calculatedWell Log: 40 gpm X 0.00223 = 0.09 cfs500 rainbird nozzles run at 1 time at 49 psi = 0.06 cfs (see attached calculations sheet, and rainbird fact sheet)Domestic internal use only, since external is included under the irrigation component: 0.02 cfs standard for D1Irrigation: 1.9 acres X 0.03 = 0.06 cfs**RECOMMEND:**

Domestic 0.02 cfs

Irrigation 0.06 cfs

Total Diversion Rate 0.06 cfs (capacity of the system, measured during the field examination)

E. FLOW CALCULATIONS

Measured Method: No other measurements

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (1.9 \text{ Acres Irrigated}) \times (3.5 \text{ Irrigation Requirement}) = 6.7 \text{ AF}$$

$$V_{D.R.} = [0.06 \text{ Diversion Rate (cfs)}] \times (199 \text{ Days in Irrigation season}) \times 1.9835 = 23.7 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 6.7 \text{ AF}$$

2. Volume Calculations for Other Uses: IDWR Standard for Domestic 1 home = 0.6 AF

RECOMMEND:

Domestic 0.6 AF

Irrigation 6.7 AF

Total Annual Volume 7.3 AF

G. NARRATIVE/REMARKS/COMMENTS

At the time of the field examination, Ranney Draper walked around throughout the grounds describing everything, and submitted an engineered detailed map of the entire grounds (See Map). The well was drilled on 9/11/1977 by Ken Smith Well Drilling. It has an 8 inch casing, is 80 ft deep, 12 ft static, unknown submersible pump make/model, 2 inch discharge to the control room located west of the house. There the control ESP16-LX Plus is located that runs the 15 zones for the immediate landscaping, lawn, and garden surrounding the house, and the 8 zones for the area irrigated along the driveway from the entrance to the house. The system has unknown size/make buried pipe to rainbird 5000 nozzles and drip system. In the garden area, 3 nozzles run at one time at 49 psi (0.06 cfs) with no other water running anywhere else on the system. These grounds are part of a 1999 conservation with the land trust.

ADDITIONAL INFORMATION:

An additional condition will be added to the license, as indicated in the Final Order Adding Clarifying Language to Assist the Dept. in Administration of Water Rights Entitles to Unqualified Subordination.

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>
DOMESTIC	01/01 to 12/31	0.020 CFS	0.60 AF
IRRIGATION	04/15 to 10/31	0.060 CFS	6.70 AF
<u>Totals:</u>		0.060 CFS	7.30 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



Date: 8/14/2013

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.

[illegible]
$$= 0.09 \text{ cfs}$$

Wet

5000/5000 Plus Standard Angle Rain Curtain Nozzle Performance

Pressure psi	Nozzle	Radius ft.	Flow GPM	■ Precip In/h	▲ Precip In/h
25	1.5	33	1.12	0.20	0.23
	2.0	35	1.50	0.24	0.27
	2.5	35	1.81	0.28	0.33
	3.0	36	2.26	0.34	0.39
	4.0	37	2.91	0.41	0.47
	5.0	39	3.72	0.47	0.54
	6.0	39	4.25	0.54	0.62
	8.0	36	5.90	0.88	1.01
35	1.5	34	1.35	0.22	0.26
	2.0	36	1.81	0.27	0.31
	2.5	37	2.17	0.31	0.35
	3.0	38	2.71	0.36	0.42
	4.0	40	3.50	0.42	0.49
	5.0	41	4.47	0.51	0.59
	6.0	43	5.23	0.54	0.63
	8.0	43	7.06	0.74	0.85
45	1.5	35	1.54	0.24	0.28
	2.0	37	2.07	0.29	0.34
	2.5	37	2.51	0.35	0.41
	3.0	40	3.09	0.37	0.43
	4.0	42	4.01	0.44	0.51
	5.0	45	5.09	0.48	0.56
	6.0	46	6.01	0.55	0.63
	8.0	47	8.03	0.70	0.81

Precipitation Rates based on half-circle operation.

■ Square spacing based on 50% diameter of throw.

▲ Triangular spacing based on 50% diameter of throw.

Performance data collected in zero wind conditions.

Pressure psi	Nozzle	Radius ft.	Flow GPM	■ Precip In/h	▲ Precip In/h
55	1.5	35	1.71	0.27	0.31
	2.0	37	2.30	0.32	0.37
	2.5	37	2.76	0.39	0.45
	3.0	40	3.47	0.42	0.48
	4.0	42	4.44	0.48	0.56
	5.0	45	5.66	0.54	0.62
	6.0	47	6.63	0.58	0.67
	8.0	50	8.86	0.68	0.79
65	1.5	34	1.86	0.31	0.36
	2.0	35	2.52	0.40	0.46
	2.5	37	3.01	0.42	0.49
	3.0	40	3.78	0.45	0.53
	4.0	42	4.83	0.53	0.61
	5.0	45	6.16	0.59	0.68
	6.0	48	7.22	0.60	0.70
	8.0	50	9.63	0.74	0.86

$$\frac{(45 \text{ psi}) (55 \text{ psi})}{2} = \frac{8.03 + 8.86}{2} = \left(\frac{8.445 \text{ gpm} \times 3}{\text{for } 49 \text{ psi}} \right) \times .00223 = .06 \text{ } \frac{45}{45}$$

Performance data derived from tests that conform with ASAE Standards;
ASAE S398.1. See page 6 for complete ASAE Test Certification Statement.

Rotors



5000/5000 Plus Series & 5000/5000 Plus PRS Series

The Next Evolution in Rotor Performance

NEW!
PRS OPTION

- Performance – Rain Curtain™ nozzles
- Award-winning MPR nozzle set
- Reliability – Five-year trade warranty

Features

- The 5000/5000 Plus/5000 Plus PRS Series Rotors are available in 4", 6", 12", Shrub, and Stainless Steel (5000 Plus/5000 Plus PRS 4" & 6" only) models.
- Standard rubber cover for extra protection. 5000 Plus/5000 Plus PRS feature a green cover while the 5000 features a black cover.
- Heavy-duty cover assembly for extra durability in residential or commercial applications.
- Rain Curtain™ Nozzles.
- The 5000 Plus features a Flow Shut-Off device to stop the flow of water to a particular head while the system is still in operation.
- Slip clutch mechanism for quick adjustment.
- Heavy-duty retract spring assures positive pop-down.
- Tree of nozzles including four low angle (Angle of Trajectory 10°) and eight standard angle Rain Curtain™ Nozzles (Angle of Trajectory 25°) provides 25 to 50 (7,6 to 15,2 m) distance of throw.
- Award-winning MPR nozzle set simplifies design and installation by providing matched precipitation from 25' to 35' (7,6 to 10,7 m) (see page 58).
- Top-adjust arc adjustment requiring only a flat-blade screwdriver.
- Five-year trade warranty.
- 40 - 360° Arc Rotation and reversing full circle rotation in one. (A non-reversing full circle only unit is also available).
- Radius adjustment screw allows up to 25% radius reduction without changing nozzles.
- True 4" (10 cm) pop-up (measured from the cover to the nozzle).
- Pressure-activated multi-function wiper seal protects internals from debris and assures positive pop-up and retraction.
- Reinforced flow path for additional side load strength.
- Additional O-rings and seals for extra protection in "gritty" water.
- Optional stainless steel riser helps deter vandalism on public turf areas (4" and 6" 5000 Plus/5000 Plus PRS only).
- Optional pre-installed Rain Curtain™ nozzle.
- Optional Seal-A-Matic (SAM)™ check valve holds up to 7 feet (2,1 m) of elevation change, to prevent puddling and erosion caused by low head drainage.
- Optional non-potable purple cover for easy identification of reclaimed water.



● 5012-PL-FC, 5006-PL-FC,
5004-PL-FC, 5000-S-PL-FC

How To Specify

5004-S-PL-PC-SAM-R-NP-SS

		Options	
		SAM; PRS; Non-potable cover	
		Rotation	
		"PC" for 40-360 degrees "FC" for 360 degree only	
		Model	Model
		Plus	Stainless steel
		Shrub	
		Model	
		5000 Series 4" pop-up	

Performance data derived from tests that conform with ASAE Standards;
ASAE S398.1. See page 6 for complete ASAE Test Certification Statement.

Rotors



5000/5000 Plus Series & 5000/5000 Plus PRS Series (continued)

Operating Range

- Precipitation rate: .20 to 1.01 inches per hour (5 to 26 mm/h)
- Radius: 25 to 50 feet (7,6 to 15,2 m)
- Radius may be reduced up to 25% with radius reduction screw
- Pressure: 25-65 psi (1,7 to 4,5 bars)
- Flow Rate: .73 to 9.63 GPM (4,2 to 36,6 l/m)

Specifications

- ¾" (20/27) NPT female bottom threaded inlet
- Reversing full and part circle adjustment 40° – 360°
- Full circle only adjustment 360°

Dimensions

- Pop-up height: Shrub: 4" (10,2 cm); 6" (15,2 cm); 12" (30,5 cm)
- Overall body height: Shrub: 7 ¾" (19,7cm) 4": 7 ¾" (18,5 cm); 6": 9 ⅝" (24,5 cm); 12": 16 ⅞" (42,9 cm)
- Exposed surface diameter: 1 ⅝" (4,1 cm)

Note: Pop-up height measured from the cover to the nozzle. Overall body height is measured popped down.

Optional PRS Features



- In-stem pressure regulator (PRS) reduces operating pressure to 45 psi (3,1 bars) for optimal nozzle performance.
- PRS saves water by:
 - eliminating head-to-head pressure variations.
 - eliminating misting due to high pressure.
 - improving nozzle distribution uniformity by operating the nozzle at optimum pressure.
- Maintenance-free design can be easily retrofitted into existing 5000/5000 Plus, T-Bird™ and Hunter® PGP™ (using UPG model) rotor bodies without digging up the entire body.
- Pressure: 25-75 psi (1,7 to 5,2 bars).

Models

Part-Circle units (PC) are adjustable from 40 – 360 degrees. Full-Circle units (FC) are 360 degrees only.

- 5000-S-(PC or FC)-(SAM)-(R)-(NP)
- 5004-(PC or FC)-(SAM)-(R)-(NP)
- 5006-(PC or FC)-(SAM)-(R)-(NP)
- 5012-(PC or FC)-(SAM)-(R)-(NP)
- 5000-S-PL-(PC or FC)-(SAM)-(R)-(NP)
- 5004-PL-(PC or FC)-(SAM)-(R)-(NP)-(SS)
- 5006-PL-(PC or FC)-(SAM)-(R)-(NP)-(SS)
- 5012-PL-(PC or FC)-(SAM)-(R)-(NP)

Note: Many models are available with a 2.0 or 3.0 nozzle pre-installed.

5004-UPG

Don't just change out a rotor, UPGrade it.

UPGrade to the UPG-5004 for:

- Designed to upgrade existing Hunter PGP™ rotors with the performance characteristics and feature set of Rain Bird's 5004 rotor.
- Faster and easier to leave the PGP case in the ground and only change out the main part of the rotor.
- Rain Curtain™ Technology which includes large droplet size, close-in water, and even distribution.
- Rapid installations - the available flow shut-off feature means the nozzle can be changed without shutting down the entire zone at the valve.
- Available Matched Precipitation Rate (MPR) nozzles.

Operating Range

- Precipitation rate: .20 to 1.01 inches per hour (5 to 26 mm/h)
- Radius: 25 to 50 feet (7,6 to 15,2 m)
- Pressure: 25-65 psi (1,7 to 4,5 bar)
- Optimal nozzle performance at 45 psi
- Flow Rate: .73 to 9.63 GPM (4,2 to 36,6 l/m)

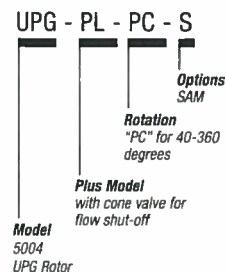
Models

- UPGPC: 5000 UPG Series, 4"Part/Reverse Full Circle
- UPGPCS: 5000 UPG Series, 4"Part/Reverse Full Circle w/SAM
- UPGPLPC: 5000 Plus UPG Series, 4"Part/Reverse Full Circle
- UPGPLPCS: 5000 Plus UPG Series, 4"Part/Reverse Full Circle w/SAM



● 5004-UPG

How To Specify



SESE

30

SWSW

29

NENE

04N18E

NWNW

31

32

SWNW

SWW

POW
ITC
POW
ITC

POW
Domestic

POW
ITC



Pou
irrigated
entrance

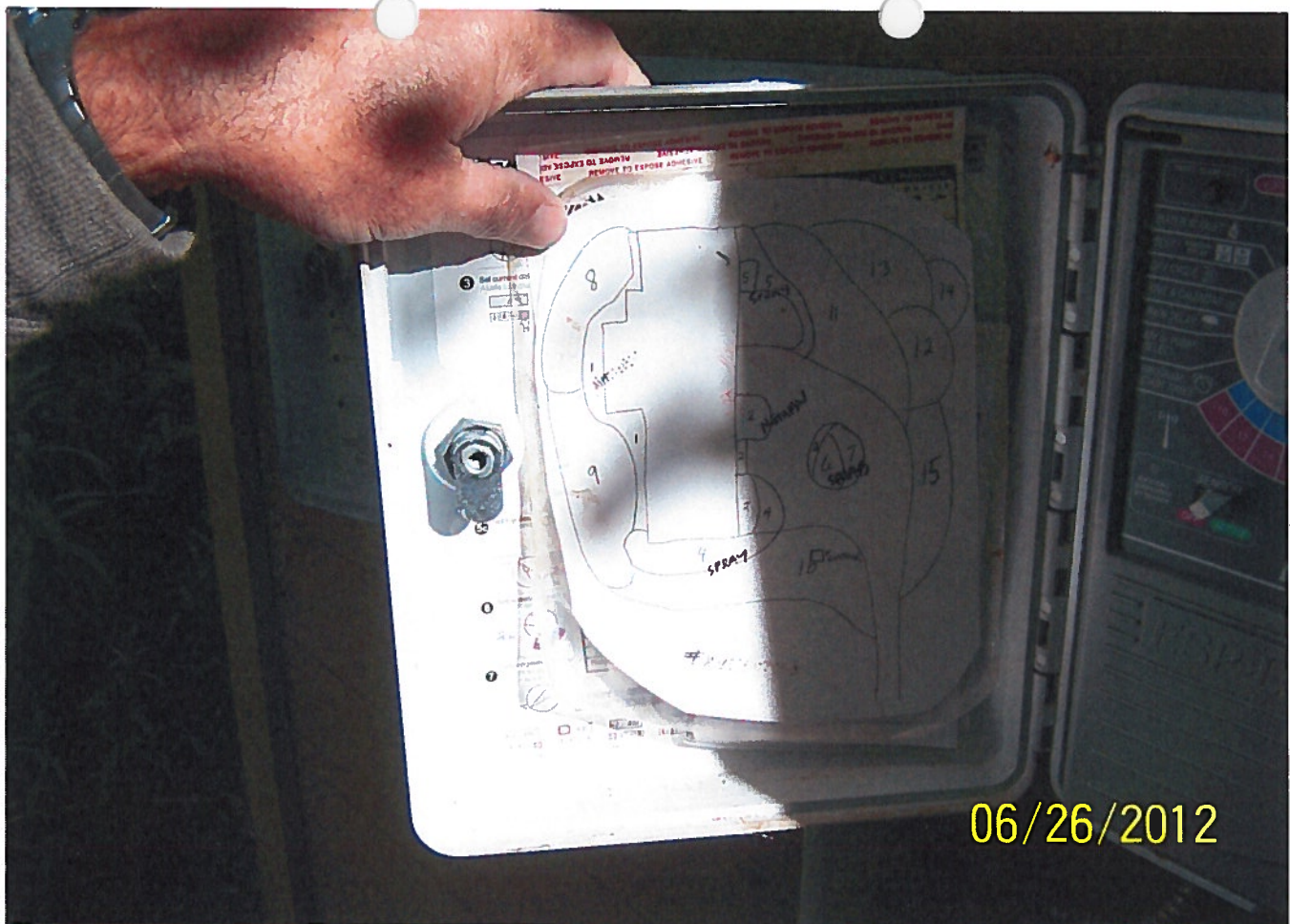
06/26/2012



Pou
Domestic
1-home
+
irrigated
landscape

Dom,
exterior
are
outdoor
plants

06/26/2012



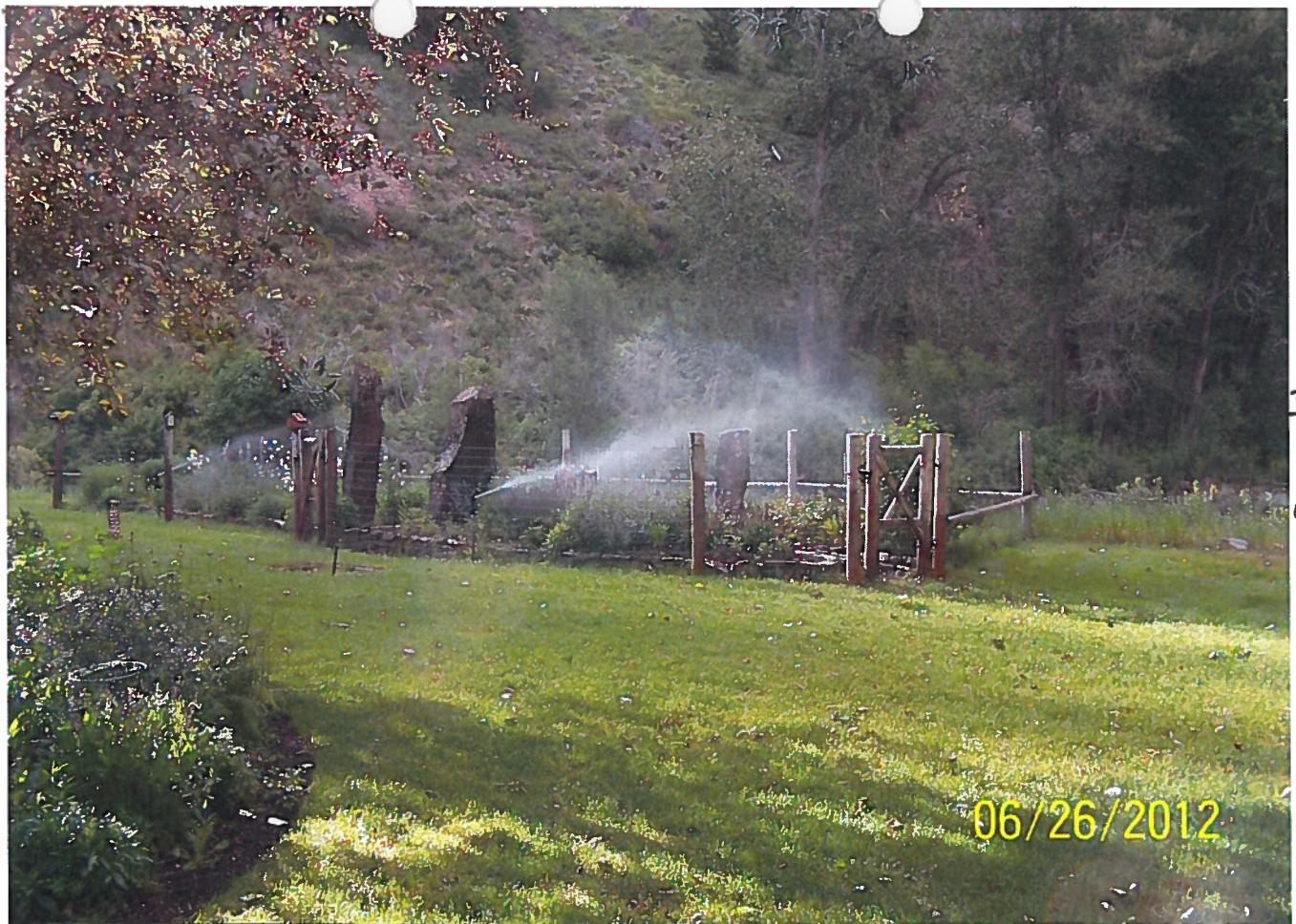
located
west of
house

Control
Esp 16-
1X
plus
15 zone
home
system
9
8 zone
entrance
& side
along
drive-
way
being
irrigated

3 rain-
birds
one
time
(5000)
running
at 49ps
= 0.06
cfs



PDD:
A0016A1
8"
casing
14" above
ground
level
20' deep
12' status
2"
discharge



POU
Irrigation
garden
lawn

06/26/2012



POU
Irrigation
land-
scaping

drip-
system
+
rainbar
scod's

06/26/2012



Pou
Domest
+
Irrigate

06/26/2012



Pou
Irrigate
along
sides
of
drive-
way

37-8153

S. Hemerly



POU
Irrigates
on sides
of drive-
way

06/26/2012



POU
Irrigates

06/26/2012



POU
Irrigation
on
sides
of
drive-
way

