

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED

AUG 07 2017

DEPARTMENT OF
WATER RESOURCES

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

A. GENERAL INFORMATIONPermit No. 63-33341

1. Owner City of Boise, Department of Parks and Recreation Phone No. 208-608-7600
Current address 1104 Royal Boulevard, Boise, ID 83706
2. Examiner's name Terry Scanlan, P.E., P.G. EXAM DATE 6/16/2017
3. Accompanied by Mike Woodward Email mwoodward@cityofboise.org
Address 1104 Royal Boulevard, Boise, ID 83706
Relationship to permit holder Horticulture Manager, BPRD Phone No. 608-7189
4. Source Boise River tributary to Snake River

B. OVERLAP REVIEW

1. Other water rights with the same place of use SUEZ Municipal water, 63-33052
2. Other water rights with the same source and point of diversion 63-34258

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident. No.	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County	Method of Determination/Remarks
	8		SE	NE	30	3N	3E	Ada	Exam, Aerial Photo

2. Place(s) of Use: Method of determination Exam, aerial photo

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
3N	3E	19											8	10			5		23
														L5					
		30	3	26	13	2	6												50
				L6	L6		L5												

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" = _____

- ☒ 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

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Boise River headgate					

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Flow meter	Mag	Seametric	AG2000-600	08101060	6-inch	new 2010

2. **Measurements:** _____

Flow meter measurements of 477 gpm (1.06 cfs) with one pump off and one 30-hp pump at 55 hz. Pump station capacity is approximately 2 cfs. Watermaster records (attached) reflect daily average pumping rate at pond rather than diversion rate from River. Diversion from River includes Williams Pond overflow.

E. NARRATIVE/REMARKS/COMMENTS

A concrete headgate diverts water from the Boise River to a small settling pond, then splits flow between Walling Ditch and an aesthetic storage pond, aka Williams Pond, authorized under water right 63-33052. Water from the pond is diverted to a wet well at the pump station located on the north side of the pond. From there, the water is pumped into the park's pressurized irrigation system via two 30-hp vertical turbine pumps (both Goulds 9RCLC 5-stage, 6.8125" trim) and one 5-submersible pump (Franklin 35FAS3S4-PE). Approximately 27 acres of park landscape area were found developed within the City's 73-acre property boundary at the time of the exam.

Consumptive use for irrigation is mitigated with non-use of 0.54 cfs (27 acres) of surface water from South Boise Mutual Canal Company under water right 63-243G. This right originally covered 40 acres irrigation within a 117-acre PPU. The mitigation water was obtained for all 40 acres as well as 6 acres of pond surface area under water right 63-33052. Part of the property is now owned by Barber Station and the original permit was assigned and split accordingly, including appurtenant mitigation water. Permit 63-33341 represents the City's 27-acre irrigation portion and permit 63-34258 represents Barber Station's 13-acre irrigation portion. The ponds under water right 63-33052 are entirely located on City property. The Department conducted a licensing field exam on water right 63-33052 in the fall of 2012. At that time, the Boise River Watermaster provided IDWR an email confirmation (included in Attachment C) that SBMIC had left more than the required amount of natural flow in the river to satisfy the 0.92 total mitigation requirement for permits 63-33341, 63-34258 and 63-33052, even when curtailed to the Stewart Decree 60% rate.

Ada County Assessor's tax data indicates Marianne William's Park comprises 73 acres of City-owned property. As a result, 27 acres irrigation within a 73-acre ppu have been recommended for licensing rather than a 63-acre ppu listed on the permit.

Watermaster records (Attachment C) for Marianne Williams Park indicate the maximum mean average weekly diversion rate in 2017 was 0.55 cfs and maximum daily diversion rate in 2016 was 0.50 cfs. As confirmed in an email provided by the Watermaster dated 6/19/2017 included in Attachment C, the recorded readings are from the totalizing flow meter located on the discharge from the pressure irrigation pump station and not the Boise River headgate diversion. There is not a measuring device being utilized between the river and the settling pond.

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☒ Yes ☐ No If no, what must be done to meet the permit requirements?

Exam Attachments

Attachment A: Field Exam Maps

Attachment B: System Diagrams

Attachment C: Flow Rate Calculations

Attachment D: Exam Photos

F. FLOW CALCULATIONS

☒ Additional computation sheets attached

Measured Method:

Totalized flow from magnetic flow meter reported to Watermaster; see attached.

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 27 \times 4.5 = 121.5$$

$$V_{D,R} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.54 \times 1.9835 \times 260 = 278.5$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{121.5}$$

2. Volume Calculations for Other Uses:

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion	Annual Volume
	From	To	Q (cfs)	V (afa)
Irrigation	3/1	11/15	0.54	121.5
	Totals:		0.54	121.5

2. Recommended Amendments

- ☐ Change P.D. as reflected on page 1 ☐ Add P.D. as reflected on page 1 ☒ None
☐ Change P.U. as reflected on page 1 ☐ Add P.U. as reflected on page 1 ☐ Other

I. AUTHENTICATION

Field Examiner's Signature

Tim M. Healer

Date _____

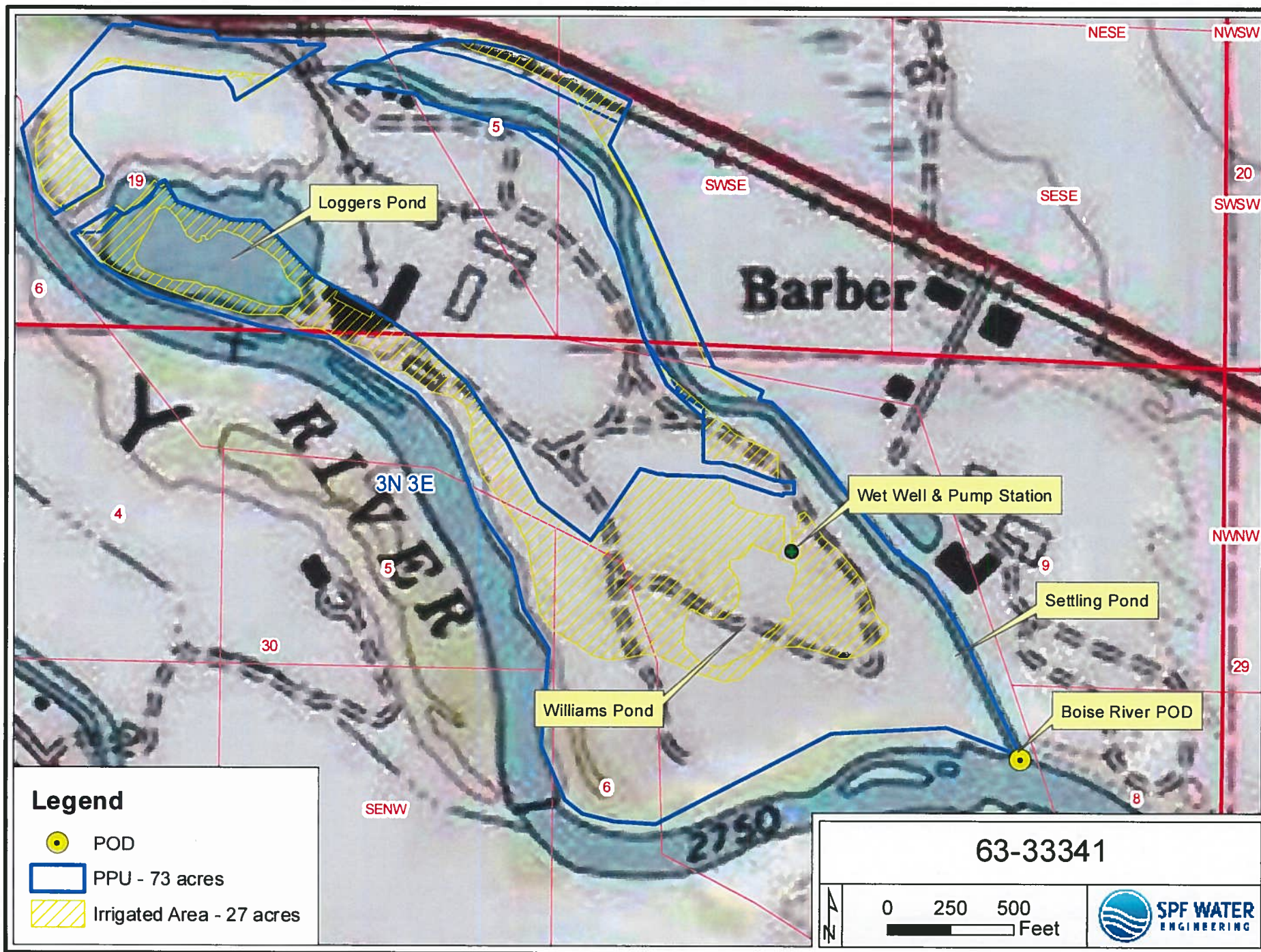
8/4/2017

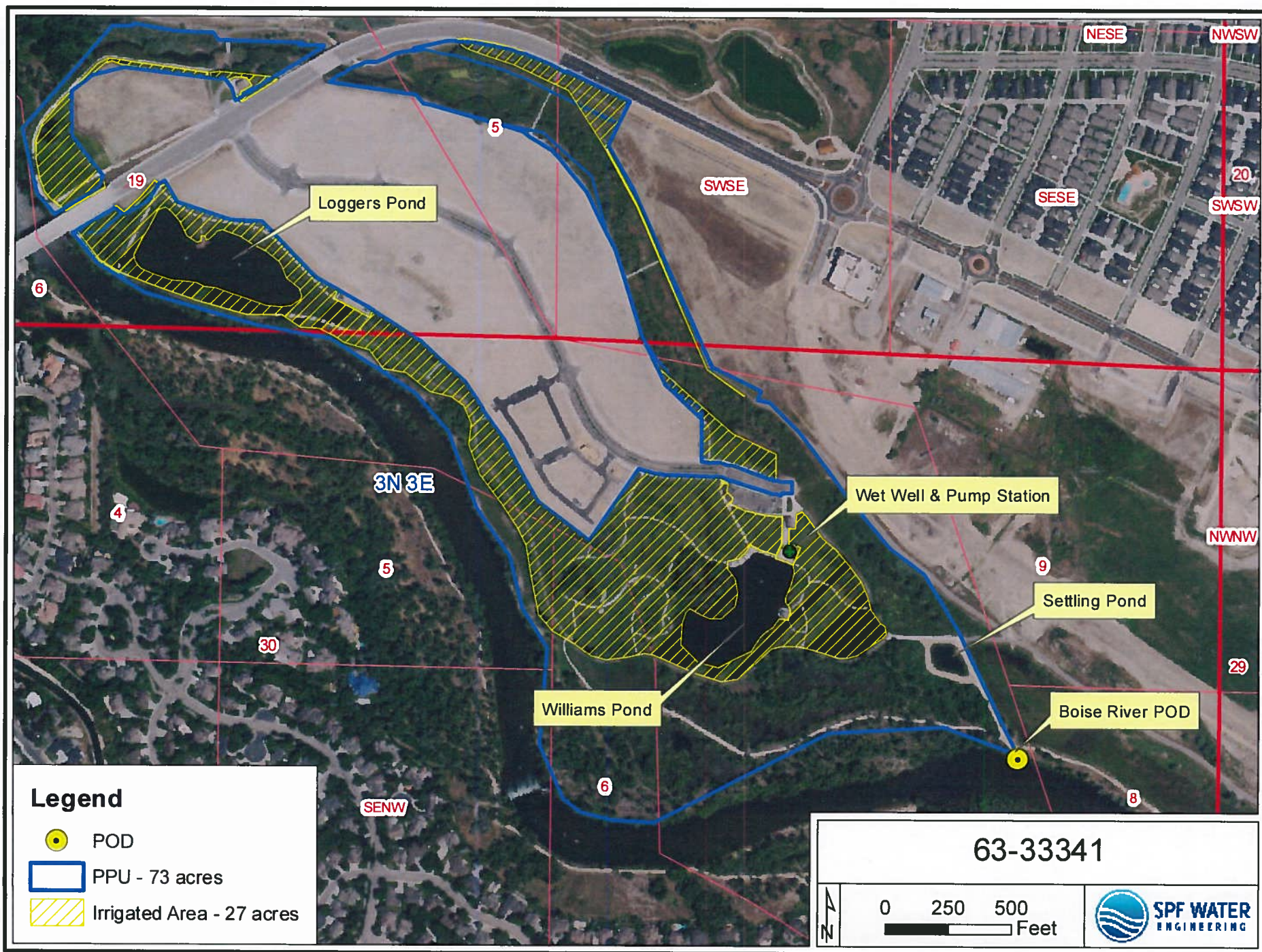
Reviewer

Date _____



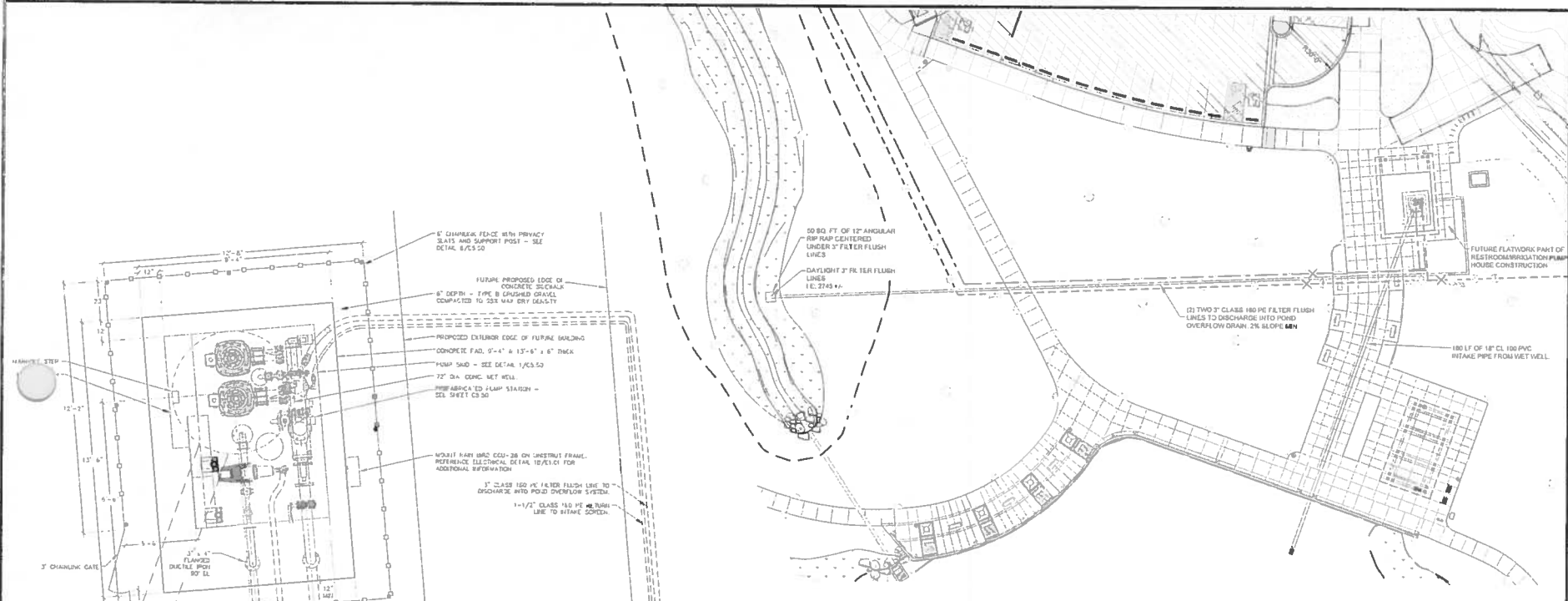
Attachment A
Field Exam Maps





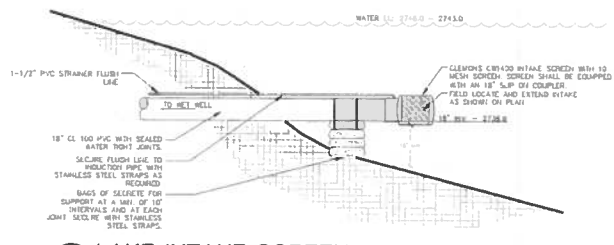
Attachment B

System Components and Diagrams

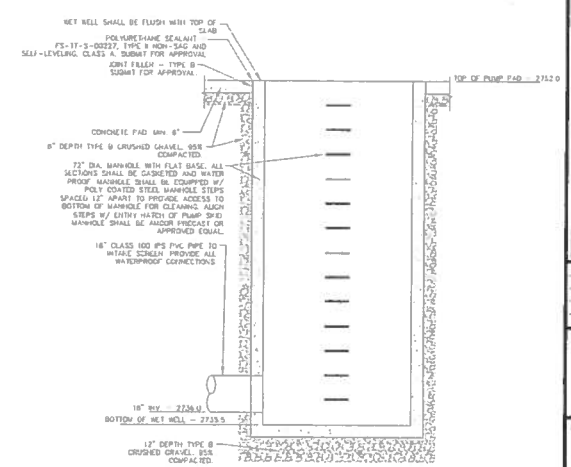


Site Plan
SCALE: 1"=30'

1 PUMP PAD SITE LAYOUT
NOT TO SCALE



2 LAKE INTAKE SCREEN
N.T.S.



3 WET WELL SECTION
N.T.S.



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without written approval of the
The Land Group, Inc.

**MARIANNE WILLIAMS PARK
BARBER STATION
BOISE, IDAHO**



THE LAND GROUP
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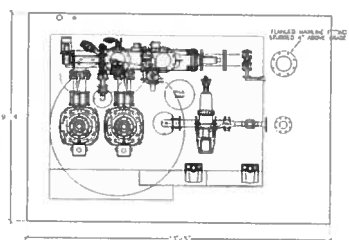
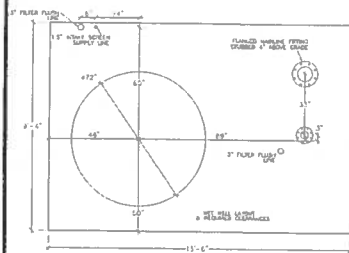
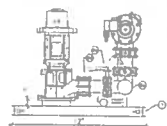
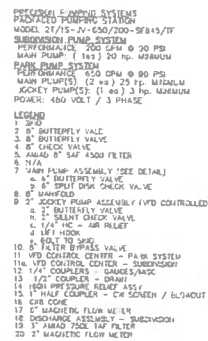
Project Name	Client
Design with	City
Contract	City
Construction	City
Issue Date	8.3.10



NORTH
SCALE: AS NOTED

Drawn by: **PUMP STATION
DETAILS**

C5.00

[illegible]

The pressure transducer shall continually monitor system pressure. A 4-20 mA or 1-10V signal shall be transmitted to the VFD and the VFD shall react according to pre-programmed criteria. The pressure transducer shall be stair-step sized.

The control panel shall include a PLC with an operator interface.

A PLC with a digital operator interface shall be installed to operate all control, fault operations and indicators as well as any timed operations, which operate independent of the VFD.

The operator interface shall have an alpha / numeric display with a minimum of 16 characters. The operator interface shall allow the user to make adjustments to the PLC program locally, without requiring any additional equipment, such as a laptop computer. The VFD control keypad shall not be located on the exterior of the control panel, and is not a acceptable substitution for the digital operator interface.

The PLC shall include analog inputs for pressure, and other options such as flow. The PLC shall be fully programmed prior to pump panel installation. The technician installing and programming the PLC is to be factory trained and certified by the PLC manufacturer.

The PLC and operator interface shall provide (at a minimum) the following functions:

- Display run status of all pumps
- Display system pressure + low pressure detected/lost pump control
- Display any fault condition and log faults with time and date stamp
- Display motor run hours – User re-settable
- Pre-programmed start-up routines for full start-up, minimum flow, power recovery, and re-start after a system fault
- Allow user to adjust operating variables and timing functions such as low pressure, high pressure, low flow, start-up pressure and ramp time, and restart delays
- Display on-line cycle performance and efficiency
- VFD bypass routine to allow emergency pressure differential operation of pumps if the VFD fails – User selectable
- Control of automatic valve supplying inline screen system
- Display of operators such as flow and total flow



The following safety lectures shall be included in the Pump Control Panel:

DISCONNECT SWITCH

The disconnect switch shall be integrated into the pump control panel and shall be the disconnect means for the equipment. The disconnect switch shall be rated for service entrance equipment, and be sized appropriately according to UL guidelines. The disconnect shall be circuit breaker type. Fuses are not acceptable.

OVERCURRENT PROTECTION
The VFD's bridge rectifiers shall be protected from over current by appropriately sized circuit breakers. Fuses are not acceptable.

THERMAL OVERLOAD
In the case of a VFD failure, the pump control panel shall include a magnetic starter, which consists of a contactor, circuit breaker and thermal overload, so that the motor may be operated across-the-line manually until the VFD is repaired or replaced.

The Pump Control Panel shall be capable of monitoring incoming power and automatically disconnecting power if it does not meet specified criteria. The system shall be capable of monitoring high or low voltage, phase failure, phase unbalance and phase reversal. If specified criteria are not achieved, a magnetic contactor shall be opened to prevent damage to the VFD. The system shall have an automatic re-start routine when the power returns to normal.

LIGHTING AND SURGE PROTECTION
The Pump Control Panel shall be equipped with transient voltage and surge arrestors.

PRE-PROGRAMMED START-UP ROUTINES

The PLC shall be programmed with various start-up routines that limit and/or delay the starting, and operation of the pump to ensure that excessive velocity and pressure do not damage the distribution system. The program shall include individual routines for initial start-up, mains failure, re-start after a power outage, and re-start after a system fault. The operator shall be able to adjust the timing of the routines via the computer interface.

HIGH DISCHARGE PRESSURE SWITCH

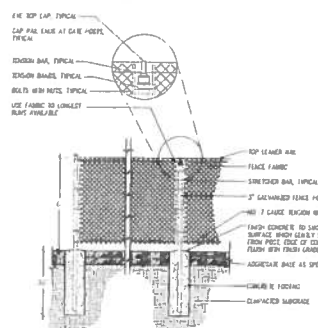
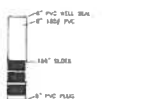
The pump system shall be equipped with a high-pressure switch. The pump control panel shall be equipped with field connections in place in the event a high-pressure switch is desired by the end user. If system pressure reaches a preset high level that is above the PLC's programmed high-pressure shutdown, the entire system shall shut down and shall require manual reset.

JOCKEY PUMP

The system shall include a jockey pump. The jockey pump shall be variable speed, and shall be controlled by a separate VFD.

Automatic Station Branner Editor

Include a price for all materials and labor for the incorporation of an automatic section scanner filter. The filter shall be an Amied SAF, and a TAF 50E automatic section scanner type filter with electric motor and electronic control. No hydraulic motors will be accepted.



Attachment C

Flow Rate and Volume Calculations

Marianne Williams Park Water Usage

Date	Reading	Weekly Gallons Used	Gallons/Day	CFS	Acre Ft/Day
7-Apr-17	140,886,241				
14-Apr-17	140,886,241	0.00	0.00	0.00	0.0000
21-Apr-17	140,886,241	0.00	0.00	0.00	0.0000
28-Apr-17	140,890,496	4,255.00	607.86	0.00	0.0019
5-May-17	140,890,496	0.00	0.00	0.00	0.0000
12-May-17	140,890,496	0.00	0.00	0.00	0.0000
19-May-17	140,906,221	15,725.00	2,246.43	0.00	0.0069
26-May-17	141,053,599	147,378.00	21,054.00	0.03	0.0646
2-Jun-17	141,609,366	555,767.00	79,395.29	0.12	0.2437
9-Jun-17	143,081,484	1,472,118.00	210,302.57	0.33	0.6454
16-Jun-17	143,723,476	641,992.00	91,713.14	0.14	0.2815
23-Jun-17	145,495,265	1,771,789.00	253,112.71	0.39	0.7768
30-Jun-17	147,629,215	2,133,950.00	304,850.00	0.47	0.9356
7-Jul-17	149,477,500	1,848,285.00	264,040.71	0.41	0.8104
14-Jul-17	151,968,155	2,490,655.00	355,807.86	0.55	1.0920
21-Jul-17	154,100,051	2,131,896.00	304,556.57	0.47	0.9347
28-Jul-17	155,800,205	1,700,154.00	242,879.14	0.38	0.7454
4-Aug-17			0.00	0.00	0.0000
11-Aug-17		0.00	0.00	0.00	0.0000
18-Aug-17		0.00	0.00	0.00	0.0000
25-Aug-17		0.00	0.00	0.00	0.0000
1-Sep-17		0.00	0.00	0.00	0.0000
8-Sep-17		0.00	0.00	0.00	0.0000
15-Sep-17		0.00	0.00	0.00	0.0000
22-Sep-17		0.00	0.00	0.00	0.0000
29-Sep-17		0.00	0.00	0.00	0.0000
6-Oct-17		0.00	0.00	0.00	0.0000
13-Oct-17		0.00	0.00	0.00	0.0000
20-Oct-17		0.00	0.00	0.00	0.0000
27-Oct-17		0.00	0.00	0.00	0.0000
3-Nov-17		0.00	0.00	0.00	0.0000
10-Nov-17		0.00	0.00	0.00	0.0000
17-Nov-17		0.00	0.00	0.00	0.0000

DAILY MEAN VALUES FOR DISCHARGE IN CUBIC FEET PER SECOND, IRRIGATION YEAR, NOVEMBER 2015 TO OCTOBER 2016

DAY	NOV	DEC	IRRIGATION YEAR 2016												TOTAL	46	MEAN	0	AC-FT	91
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT								
1	--	--	0	0	0	0	0	0.16	0.23	0.34	0.43	0.38	0.17							
2	--	--	0	0	0	0	0.17	0.23	0.23	0.34	0.43	0.37	0.16							
3	--	--	0	0	0	0	0.17	0.23	0.23	0.35	0.44	0.36	0.14							
4	--	--	0	0	0	0	0.17	0.24	0.24	0.36	0.45	0.34	0.13							
5	--	--	0	0	0	0	0.17	0.24	0.24	--	0.46	0.33	0.12							
6	--	--	0	0	0	0	0.18	--	--	0.36	0.47	0.31	0.12							
7	--	--	0	0	0	0	0.18	0.25	0.25	0.35	0.48	0.3	0.13							
8	--	--	0	0	0	0	0.18	0.26	0.26	0.34	0.49	0.25	0.13							
9	--	--	0	0	0	0	0.18	0.28	0.28	0.33	0.5	0.25	0.13							
10	--	--	0	0	0	0	0.19	0.29	0.29	0.32	0.49	0.25	0.13							
11	--	--	0	0	0	0	0.19	0.3	0.3	0.31	0.47	0.25	0.14							
12	--	--	0	0	0	0	0.19	0.31	0.31	0.3	0.46	0.25	0.14							
13	--	--	0	0	0	0	0.19	0.33	0.33	0.3	0.45	0.25	0.12							
14	--	--	0	0	0	0	0.2	0.34	0.34	0.31	0.43	--	0.09							
15	--	--	0	0	0	0	0.2	--	--	0.31	0.42	0.25	0.07							
16	--	--	0	0	0	0	0.2	0.35	0.35	0.32	0.4	0.25	0.04							
17	--	--	0	0	0	0	0.2	0.34	0.34	0.32	--	0.25	0.02							
18	--	--	0	0	0	0	0.19	0.34	0.34	0.33	0.37	0.24	0.02							
19	--	--	0	0	0	0	0.19	0.33	0.33	0.33	0.36	0.24	0.02							
20	--	--	0	0	0	0	0.19	--	--	0.34	0.34	--	0.01							
21	--	--	0	0	0	0	0.18	0.33	0.33	0.35	0.32	0.24	0.01							
22	--	--	0	0	0	0	0.18	0.33	0.33	0.36	0.31	0.23	0.01							
23	--	--	0	0	0	0	0.17	0.32	0.32	0.37	--	0.23	0							
24	--	--	0	0	0	0	0.16	0.32	0.32	0.38	0.31	0.23	0							
25	--	--	0	0	0	0	0.18	0.32	0.32	0.39	0.32	0.23	0							
26	--	--	0	0	0	0	0.16	0.32	0.32	0.4	0.34	0.22	0							
27	--	--	0	0	0	0	0.2	0.31	0.31	--	0.36	--	0							
28	--	--	0	0	0	0	0.2	0.31	0.31	0.41	0.38	0.21	0							
29	--	--	0	0	0	0	0.21	0.32	0.32	0.42	0.39	0.19	0							
30	--	--	0	--	0	0	0.22	0.33	0.33	0.42	--	0.18	0							
31	--	--	0	--	0	0	0.23	--	--	0.42	0.4	--	0							
TOTAL	--	--	0.00	0.00	0.00	1.44	5.65	8.10	10.18	11.47	7.08	2.05								
MEAN	--	--	0.0	0.0	0.0	0.0	0.2	0.3	0.4	0.4	0.3	0.1								
MAX	--	--	0	0	0	0.16	0.23	0.35	0.42	0.5	0.38	0.17								
MIN	--	--	0	0	0	0	0.16	0.23	0.3	0.31	0.18	0								
AC-FT	--	--	0.0	0.0	0.0	2.9	11	16	20	23	14	4.1								

From: Rex Barrie [<mailto:waterdistrict63@qwestoffice.net>]
Sent: Monday, June 19, 2017 6:21 AM
To: Terry Scanlan <TScanlan@spfwater.com>
Subject: RE: Marianne Williams Park Water Accounting

Terry,

Both your questions or comments are correct.
Parks staff report the total from the flow meter to me each week and that is the data entered into the accounting system.

Rex R. Barrie
Boise River Watermaster

From: Terry Scanlan [<mailto:TScanlan@spfwater.com>]
Sent: Friday, June 16, 2017 1:43 PM
To: Rex Barrie
Cc: Lori Graves
Subject: Marianne Williams Park Water Accounting

Hi Rex.

I am preparing a beneficial use field exam for Marianne Williams Park irrigation, water right permit 63-33341. Authorized diversion rate is 0.54 cfs from the Boise River for irrigation purposes. In reviewing the measurement data, the maximum mean daily diversion rate in 2016 was 0.50 cfs. In discussing with Boise Parks staff, I understand that measurement data are based on reported daily readings from the totalizing flow meter located on the discharge from the pressure irrigation pump station. The flow meter does not reflect losses in the gravity conveyance system (River headgate to sediment pond to Marianne Williams Pond). Pump station capacity is > 1 cfs. So I am going to assume that diversion rate from the river is likely the full 0.54 cfs.

For the purposes of the exam, can you confirm the following two statements?

1. Water District measurements are based on the reported daily totalized flow measurements collected from the mag meter at the irrigation pump station.
2. There is not a weir or other measuring device being utilized between the River and the pond.

Thanks.

Terry M. Scanlan, P.E., P.G. | Principal Engineer/Hydrogeologist
SPF Water Engineering, LLC
300 E Mallard Drive, Suite 350 | Boise, ID 83706
p. 208.383.4140 | f. 208.383.4156 | d. 208.489.2121
e. tscanlan@spfwater.com | w. www.spfwater.com

Lester, Steve

From: Rex Barrie [waterdistrict63@qwestoffice.net]
Sent: Tuesday, October 23, 2012 7:41 AM
To: Lester, Steve
Subject: South Boise Mutual Irrigation Co.

Steve,

According to my 2012 water reports the maximum amount diverted thru the Bubb Ditch (South Boise Mutual Irr. Co.) was 4.2 cfs. The SRBA rights indicate 8.61 cfs natural flow and 529 af of storage.

At the Stewart Decree 60% rate they would be allowed 5.16 cfs of natural flow. During the 60% period my records show 3.8 cfs maximum diversion.

These flow amounts do not include the Mary Ann Williams Park diversion as they leased water from the Rental Pool for 2012 operations.

Rex R. Barrie
Boise River Watermaster

From: Lester, Steve [mailto:Steve.Lester@ldwr.idaho.gov]
Sent: Monday, October 22, 2012 9:20 AM
To: waterdistrict63@qwestoffice.net
Subject: Watermaster Information

Rex:

This follows up on our conversation this morning about two things.

1) Please provide an email reply showing South Boise Mutual Irrigation Co. has not diverted its full natural flow amount this year. This will verify that 0.92 cfs of their natural flow has remained in the river to mitigate 2 new permits for Marianne Williams Park: 63-33052 shallow ground water ponds & 63-33341 river water for irrigation). Then we can proceed with the water right license process for this park.

2) Application 63-33651, waste water for irrigation near Middleton – this is the application with water district concerns noted in your 8/3/2012 Watermaster recommendations regarding waste water returns between Star and Caldwell. Water district data confirms waste water returns have significantly exceeded the amount required to satisfy the credit system defined by decreed rights 63-21729 & 63-31937. A new approval for waste water in this area would include a curtailment condition if the return flows drop below the required amount. This condition will protect the credit system used by the irrigation organizations under those decreed rights.

Based on our discussion, you confirmed that continued monitoring of the return flows plus this curtailment condition should be sufficient to make this work. This email will serve to update your comments for the application along those lines, allowing the application to be approved with the curtailment condition. The department will approve the application and make sure the applicant understands the arrangement. You do not need to reply regarding this application unless you wanted to add anything to this summary of our discussion.

Thanks for your help with both of these things.

Steve

Attachment D

Exam Photos



Boise River diversion structure during installation in 2010



Boise River headgate during field exam in 2017



Boise River diversion headgate controls to settling pond; note chains for lockable control.



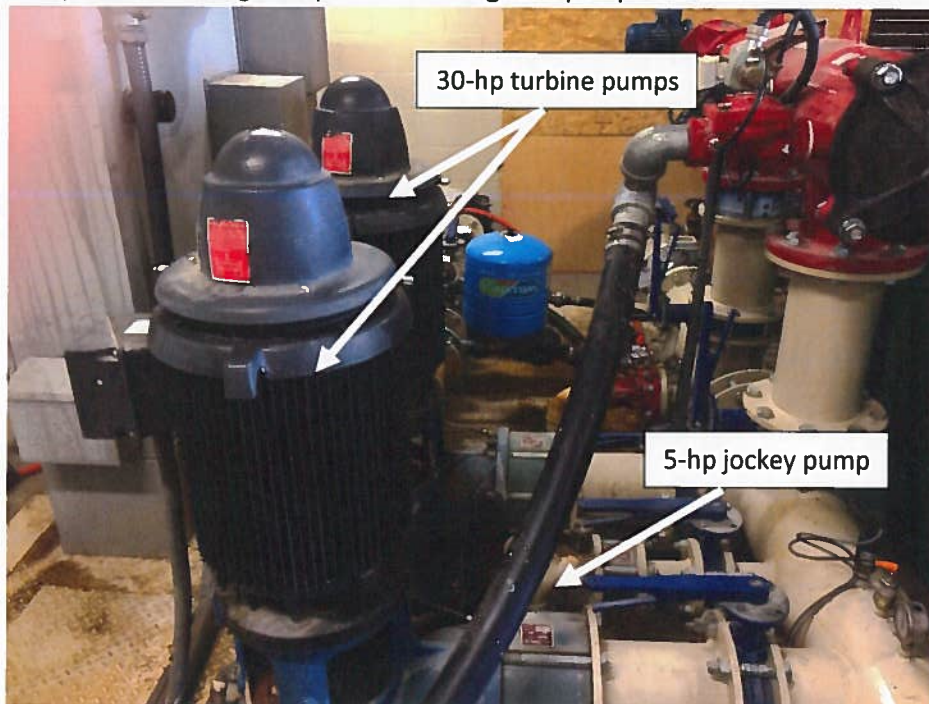
Settling pond looking northwest; note headgate to Williams Pond in background.



Headgates on settling pond



Pump house building with pressurized irrigation pumps and wet well



Two 30 hp vertical turbine pumps with 5 hp submersible "jockey" pump in-between (for low flows)



Pump house plumbing. Park irrigation piping in background with red automatic filter, beige mag meter, and blue handle butterfly valve. Barber Station (63-34258) irrigation piping in foreground with black automatic filter, blue butterfly valve, and white top flow meter. Motor controls out of picture on right.



6-inch AG2000 flow meter for measuring irrigation flow through Park pressure irrigation system



Motor control panels. Panel on right encloses controls for Park pumps (two 30-hp vertical turbine and one 5-hp submersible). Panel on left encloses control for Barber Station pump (63-34258).



Motor control display for park pumps. Note that one 30-hp pump (Pump # 2) is operating at 54.9 hz (less than 60 hz, full speed) and second 30-hp pump (Pump #1) is idle. The 5-hp pump is running at full capacity.



Sprinkler system controls



Williams pond overflow to Walling Ditch

Nelson, Dan

From: Terry Scanlan <TScanlan@spfwater.com>
Sent: Monday, August 28, 2017 3:33 PM
To: Nelson, Dan
Cc: Lori Graves
Subject: RE: Permit 63-33341

Dan –

That all makes good sense to me. Thanks.

Terry

From: Nelson, Dan [mailto:Dan.Nelson@idwr.idaho.gov]
Sent: Monday, August 28, 2017 3:31 PM
To: Terry Scanlan <TScanlan@spfwater.com>
Subject: Permit 63-33341

Hello Terry,

During our telephone conversation this morning, I expressed some concerns we were having with the measurement point for this permit being after water is diverted from the pond. I spoke with Shelley, and we decided to not request any additional information at this time. We are going to add a condition that may require better measurement capability in the future if needed. We decide this would be the best route at this time, since the watermaster has already signed off on the way this permit is currently being measured.

However, you may want to let your client know that need to be careful to match water being diverted from the Boise River to the water being diverted for irrigation from the pond. It could avoid issues further down the road. If a complaint is filed, they may need to provide evidence that they are doing exactly what their water right allows.

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