

Frederick, Adam

From: Christopher Horgan <chorgan@jub.com>
Sent: Friday, February 10, 2017 1:08 PM
To: Frederick, Adam
Cc: Paul Klatt; Bob Haynes (bob@idahowaterengineering.com); Southside Water & Sewer District (southsidewaterandsewer@frontier.com); Jim Haynes (jim.haynes@frontier.com); Case, Morgan
Subject: SWSD Water Right Supplemental Information

Adam-

Below are the two items we owe you for the Southside Water and Sewer District deep well water right – 1) flow split information between the shallow and deep wells and 2) “testimony” from the District about the historical use and need for the deep well source.

1. Flow Split Data

- a. The table below from the District’s Draft Water System Facility Plan summarizes the District’s pumping capacity based on testing performed in 2015. Averaging production from the shallow well source pumps shows that flow from the deep well represents 57.7% of the total in July, 52.2% of the total in December, and 55.4% of the total on an annual average.

Table 2-14 – Pump Summary Information

Pump Location	Pump Type	Horsepower (HP)	Flow Capacity (gpm / cfs)		
			July 2015 Pump Test	December 2015 Pump Test	Average
Shallow Well Source – East	Vertical Turbine	15	125 / 0.28	146 / 0.33	136 / 0.30
Shallow Well Source – West	Vertical Turbine	15	147 / 0.33	163 / 0.36	155 / 0.35
Deep Well Source	Submersible	15	186 / 0.41	176 / 0.39	181 / 0.40
TOTAL			458 / 1.02	485 / 1.08	472 / 1.05

2. Testimony on Historical Use and Need for the Deep Well

- a. I spoke to Doug Bopp, long-time District Operator and former Board Member, on February 3, 2017. His recollection is that the deep well was originally installed to supplement the shallow well and provide redundancy in the event the shallow well was inoperable. The District currently runs one pump in the shallow well when the system calls for water and the deep well pump always runs. Doug reports that water levels in the shallow well would be quickly pumped down with both shallow well pumps running. Hence, having the shallow well as their only source would pose a significant problem for the District, especially during summer months. A drought year, as recently experienced in 2015, would further compound the problem. Doug reports that the District would have struggled to supply water during their peak demand period during the drought year if they were solely reliant on the shallow well.

For reference, I’ve copied the summary from our January 10 meeting on how we discussed procedures to license the water right for the deep well. I updated the percent flow split from the deep well to reflect the information above.

1. This right will have a diversion rate per the field test in summer 2016 (~190 gpm).
2. This right will have a volume cap based on 2015 production (23,187,000 gallons; ~71.2 acre feet) and the approximate flow split between the deep and shallow wells.
 - a. The flow split is 55.4% from the deep well, or ~39.4 AF.

3. IDWR will incorporate language/conditions in the license document which will allow the volume cap to extend up to 71.2 AF in the event that the shallow well is inoperable or otherwise limited during any given year.

Please let me know if you have any questions on the above items or if you need additional information to complete the water right for the District's deep well. Have a great weekend!

-Chris

CHRISTOPHER J. HORGAN, M.S., P.E. (ID)
Design Engineer

J-U-B ENGINEERS, Inc.
7825 Meadowlark Way, Coeur d'Alene, ID 83815
e chorgan@jub.com w www.jub.com
p 208 762 8787 f 208 762 9797



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Frederick, Adam

From: Christopher Horgan [chorgan@jub.com]
Sent: Thursday, October 27, 2016 9:13 AM
To: Frederick, Adam
Subject: SWSD - Water Service Area KMZ File
Attachments: SWSD Water Service Area.kmz

Adam-

Attached is a KMZ file generally showing the water service area for the Southside Water and Sewer District. Let me know if this works in conjunction with the PDF I sent previously.

I'm still working on tracking down the production data we discussed. I'll let you know what I come up with.

-Chris

CHRISTOPHER J. HORGAN, M.S., P.E. (ID)
Design Engineer

J-U-B ENGINEERS, Inc.

7825 Meadowlark Way, Coeur d'Alene, ID 83815

e chorgan@jub.com w www.jub.com

p 208 762 8787 f 208 762 9797



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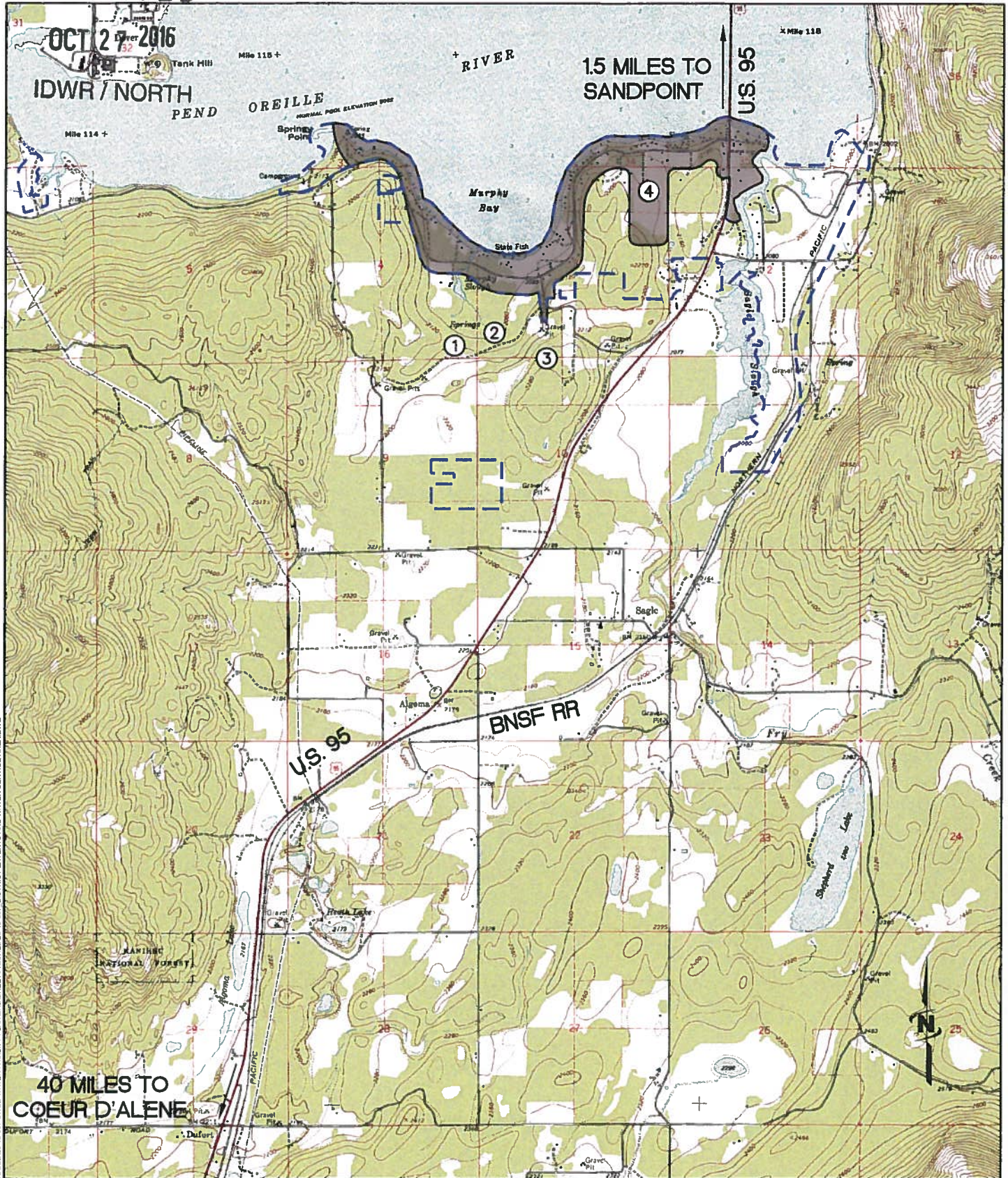


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DISTRICT EXTENTS

WATER SYSTEM SERVICE AREA

① WELL SOURCE

② SPRING SOURCE

③ STORAGE TANK

④ HAWKINS ROAD BOOSTER STATION

SOUTHSIDE WATER AND SEWER DISTRICT
WATER SYSTEM FACILITY PLAN
DISTRICT EXTENTS AND WATER SERVICE AREA

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Frederick, Adam

From: Christopher Horgan [chorgan@jub.com]
Sent: Tuesday, August 23, 2016 12:32 PM
To: Frederick, Adam
Subject: SWSD Water Right Modification

Follow Up Flag: Follow up
Flag Status: Completed

Hi Adam-

SWSD has authorized JUB to work with you to modify the water right on their well source (change to municipal instead of domestic + irrigation) and incorporate the information from the field exam you performed earlier this month. They had originally planned on doing this work in-house, but a recent change in office personnel has shifted this task to our plate. Can you please refresh my memory in terms of where we're at in the process and let me know what our next steps are to move this along? Thanks!

-Chris

CHRISTOPHER J. HORGAN, M.S., P.E. (ID)
Design Engineer

J-U-B ENGINEERS, Inc.
7825 Meadowlark Way, Coeur d'Alene, ID 83815
e chorgan@jub.com w www.jub.com
p 208 762 8787 f 208 762 9797



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