

Nebeker, Jake

From: Rachel Geringer <racheljgeringer@gmail.com>
Sent: Friday, July 3, 2020 10:35 AM
To: Nebeker, Jake
Cc: Tom Wood; Walter Holladay
Subject: Re: Hukilua LLC Water Right
Attachments: Update_Smith_trout_haven_instantaneous_peak_flow.pdf

Hi Jake,

Attached please find the update on the peak instantaneous flow rate for the Hukilau LLC water right application. As we discussed on the phone, the peak demand (which we don't expect to happen frequently) is approximately 0.37 cfs which is greater than what we expect a new well can comfortably produce (approximately 0.25 cfs). We recommend that the infrastructure include a small holding tank to supplement the few times where the peak demand is met.

Please let me know if you have any questions. Have a great weekend.

Rachel

On Thu, Jun 25, 2020 at 10:48 AM Nebeker, Jake <Jake.Nebeker@idwr.idaho.gov> wrote:

Rachel Geringer,

Thanks for getting back to me, I have just reviewed the application and narrative again. You have provided flows based on daily maximum capacity, but what we need is an instantaneous flow for the peak of your water system. When everything is on in your water system, all of the hydrants, faucets, hose bibs, showers, and toilets are flowing at one instantaneous moment what would your peak flow be. This is the flow we are looking for, not your systems maximum capacity. If you could please provide data supporting this instantaneous peak demand flow than we can move forward.

Thanks

Jake

From: Rachel Geringer [mailto:racheljgeringer@gmail.com]
Sent: Thursday, June 25, 2020 8:54 AM
To: Nebeker, Jake <Jake.Nebeker@idwr.idaho.gov>

Cc: Tom Wood <thomasrwood@gmail.com>; Smith's Trout Haven <smiths.trout.haven@gmail.com>

Subject: Re: Hukilua LLC Water Right

Hi Jake,

My name is Rachel Geringer, I work for Tom Wood at Clearwater Geosciences. I helped prepare the water right application for Hukilau LLC. I have attached the full permit package to make sure you have received our narrative to support the application.

In our narrative we used references from a US Forest Study Survey and IDAPA 58.01.03.007.08 to calculate expected peak demands of 12,110 gallons per day and 12,145 gallons per day, respectively. Tables 2 and 3 describe these calculations in detail. In the last paragraph of page one in the narrative, we mention that it is unlikely we will be able to drill a well that will produce more than 0.25 cfs. We mentioned this because we feel that it was important to mention that the hydrogeology of the area may be a limiting factor and we wanted to communicate this with our client (and IDWR) so that all parties are aware and may consider adding a small reservoir tank in the future system.

We believe 0.25 cfs will be adequate for the system at peak demand. If a well is drilled that yields our target flow rate of 0.25 cfs or 112 gallons per minute (gpm), it will only take approximately 2 hours to pump the expected peak demand of 12,145 gallons per day.

I hope this email answered James and your concerns. I'd be happy to discuss this further on the phone, I can be reached at (208) 716-1555.

Thank you!

Rachel Geringer

On Wed, Jun 24, 2020 at 10:02 PM Tom Wood <thomasrwood@gmail.com> wrote:

Yes, we used real numbers in the calculation based on peak demand. I thought that was in the application. We will take care of it.

Sent from my iPhone

On Jun 24, 2020, at 2:53 PM, Smith's Trout Haven <smiths.trout.haven@gmail.com> wrote:

Tom,

Here is the email I mentioned about the water rights issue. Can you take care of this?

Thanks,

Walter

----- Forwarded message -----

From: **Nebeker, Jake** <Jake.Nebeker@idwr.idaho.gov>

Date: Tue, Jun 23, 2020 at 3:27 PM

Subject: Hukilua LLC Water Right

To: clearwatergeo@gmail.com <clearwatergeo@gmail.com>, smiths.trout.haven@gmail.com <smiths.trout.haven@gmail.com>

To whom it may concern,

My name is Jake, I am the water resource agent at IDWR that is processing your application for permit. Your application made it to our regional manager (James Cefalo) for final approval, but he found an issue with the water rate you are proposing. Your proposed rate of .25 cfs, you stated in your application that your system will not likely produce more than that amount. What we are looking for is numerical data that supports your water rate. James wants your rate to be based on expected peak demand, not on system capacity. He mentioned that I should talk to Tom Wood about this issue, my hope is that Tom is a representative of Clearwater Geosciences LLP. Please let me know if you have any questions or concerns. I'll look forward to your response. Stay healthy

S. Jake Nebeker

Water Resource Agent

Idaho Department of Water Resources

900 N Skyline Dr # A, Idaho Falls, ID 83402

Phone: (208) 525-7161 Fax: (208) 525-7177

Thank you,

Walter & Karen Holladay

