

From: [Walker, Cassandra M](#)
To: [Kundargi, Darrell](#)
Cc: [Baca, Joaquin](#); [Harden, Tasha](#); [Mcdaniel, Monty K](#)
Subject: Re: Weekly well data
Date: Monday, January 13, 2020 10:07:41 AM
Importance: High

Hey Darrell,

Both Mitigation and Twin wells have pretty high flows...as it is, using a 5 gallon bucket and trying to hit the "line" is difficult as the pressure coming out makes the water slosh around. Secondly, no wells are close enough to shut off the water while doing the test, additionally it takes 30 sec to a minute to shut off water. Right now the person filling the bucket says stop when it appears the water has hit the 5 gallon line. Again, very difficult to be more accurate with amount of water coming out. So to answer your question, I don't think this calibrated bucket will work very well.

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On Jan 13, 2020, at 9:46 AM, Kundargi, Darrell <darrell_kundargi@fws.gov> wrote:

Hi All,

Thanks for the data, Cass. Below I have some thoughts on the check measurements, a response to Tasha, and a question for Monty.

Regarding the check measurements for flow, I think it would be best if we used this <https://www.gpimeters.com/Calibration-Contained-5-gallon-Prodview.html> because it's 1) much more accurate, 2) 3rd party and 3) calibrated to 0.01 inches.

When using this calibration bucket you don't have to try and hit the 5 gallon mark exactly, you just have to get the water level up to the calibrated section, then shut off the valve at the same time you hit stop on your stopwatch. Record the fill time and the fill level and we calculate gpm from that.

My question is: will this bucket work for your site conditions? My concern is that the opening for the bucket isn't large enough for the flow coming out of your pipe. Let me know if you think this will work and I'll order one.

Regarding your email last week, Tasha. We don't have an intern we can detail at

the Refuge. He's still a student and classes started this week. I tried to convince him to miss the first month of classes but he didn't think that would be good for his GPA.

Monty, the drawing you gave me of the Hay Hollow Well pipe info was perfect. When you get back from training can you please get me that info for Twin, Bunting, and Mitigation as soon as your schedule allows? This is instrumental to calculate how much flow we lose as artesian pressure drops.

Best,

Darrell

\On Mon, Jan 13, 2020 at 8:01 AM Walker, Cassondra
<cassondra_walker@fws.gov> wrote:

Here is last weeks well data....

Pressure and Depth for:
Hay Hollow Ponds(HHP), Hay Hollow Upstream (HHU), and Hay Hollow
Downstream (HHD)

Pressure data for:
Hay Hollow, Mitigation, Twin, and Bunting

Cass

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