

NO PCC POSSIBLE

**Bear River Basin Analysis of Depletion
Attributable to a Supplemental Ground Water Right**

Reviewer: Dan Nelson

Date: 8-14-2013

Water Right Number(s): 15-7232

Review Procedure Permit - PROOF Filed in 2004.
Same well FOR. House, STOCKWATER, IRRIGATIONS

1. Use the general water right and/or permit shapefiles prepared by Nick Van Dyke to identify the place of use water right location and size. Record the number of supplemental acres irrigated from the water right or permit. Note that the shapefile may be a nominal shape and therefore larger than the authorized number of acres. Acres: 3 - PER SPREADSHEET
3 acres PER - PERMIT. Aerial photo suggest 1.5 acres irrigated FROM well
Talked TO OWNER 1.5 acres IRRIGATED
2. Review 2009 aerial imagery and the 2009 land use shape. Check all that apply (a, b, or c) for the POU. Generally describe the irrigation system if more than one application method is used.

- a. ☐ Pivot
- b. ☐ Gravity
- c. ☒ Wheel lines/Hand Lines

Notes PER Telephone call
WITH OWNER SPRINKLERS
ARE USED.

3. Confirm the water right point of diversion location from the water right file and the Spatial Dynamics data (GPS_Wells table in Access). The water right and Spatial Dynamics should have the same site tag ID. Record the Power Meter Serial No. (PWRMTR_SN) from GPS_Wells.

Site Tag ID: NO Site Tag. Power Meter Serial No.: uses Residential
METER -

Notes: This is a permit - NO Site Tag was FOUND.
PER Telephone call WITH OWNER PUMP IS
SERVICED BY THE HOME'S POWER METER.

4. Does the well serve as point of diversion for multiple water rights? NO

If "Yes", list the right nos. _____

5. Using the 2003 power consumption data (spreadsheet) submitted by Utah Power (UPL) and the Power Meter Serial No. from step 4 (leading zero is not included in the UPL data files) for the point of diversion, find and enter the UPL Service ID: uses Residential meter.

Note: Check or confirm the horsepower (HP) rating from the Spatial Dynamics table, UPL, and the water right field report to make sure they match. Also, check the tax lot owner against the UPL account name. Note any serious discrepancies.

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6. For the years 2003 through 2012, look at the UPL power consumption data and fill in the table below for power demand (KW) and kilowatt hours (kWh). Since the KW may vary as sprinkler lines come on and off, etc., this may take some interpretation.

Year	Representative KW*	Annual kWh Total	Notes
2003			
2004			PER TELEPHONE CALL
2005			WITH OWNER - THE
2006			PUMP IS CONNECTED
2007			INTO THE RESIDENTIAL
2008			POWER METER. NO POWER
2009			RECORDS ARE AVAILABLE.
2010			I CHECKED THE POWER
2011			RECORDS AND COULDN'T
2012			FIND ANY RECORDS.
10-year Total			
10-year Avg.			

KW should be about 0.746 x horsepower. Or, horsepower should be about 1.34 x KW.

7. Compute PCC:

- Determine the diversion rate for the water right: 27 gpm
(Use best available rate from the field report unless Spatial Dynamics horsepower or other available data provides a better estimate.) Explain the basis of diversion rate used: IN A TELEPHONE CALL WITH THE OWNER, SHE DIDN'T KNOW THE HP OF HER WELL, SO I USED THE PERMITTED AMOUNT OF $0.06095 \times 448.8 = 27 \text{ gpm}$
- Insert average annual KW from the table in item 6: UNKNOWN
- $PCC = (KW \times 5431) / (gpm) = \text{kWh/ac.ft.} =$ UNKNOWN

8. Using PCC from step 7.c and the 10-year average kWh from step 6, calculate the average volume diverted per year.

kWh/PCC = Average volume (af/yr) diverted = UNKNOWN

9. The data from step 8 will be recorded in a spreadsheet and multiplied by an estimated efficiency (based on the entries in step 2) to estimate average annual depletion (consumptive use).

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