

[illegible]

Method of Determination:

3. _____ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ____x____ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ____x____ Aerial Photo Attached (required for irrigation of 10+ acres).
- ____ Photo of Diversion and System Attached

4.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
_____	_____	1.5	_____	_____	_____

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

D. FLOW MEASUREMENTS

1. Measurements: N/A

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

Theoretical yield:

$$Q = \frac{8.8 \times (Hp) \times (Eff)}{H}$$

Where: Hp = 1.5 Hp (per Eaton Well Drilling Co. records)

Eff = efficiency = 70% assumed

H = total head = pumping level = (2.31 x system pressure)
 assume pumping level of 120 feet (based on Eaton Well Drilling Co. records)
 system pressure = 45 psi (based on Eaton Well Drilling Co. records)

$$H = 120 + (45 \times 2.31) = 223.95$$

$$Q = \frac{8.8 \times 1.5 \times .70}{223.95} = 0.04 \text{ cfs}$$

F. VOLUME CALCULATIONS1. Volume Calculations for Irrigation: **N/A**

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

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

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

2. Volume Calculations for Other Uses: Domestic in home & yard = 1.2 AFA

G. NARRATIVE/REMARKS/COMMENTS

Permit 47-17462 was permitted for the diversion of up to 0.04 cfs for one home.

Application for permit 47-17462 submitted by Mary Jane Huck and/or Lawrence L. Huck, submitted on November 27, 2007 and proof of beneficial use was submitted March 27, 2008.

Taxlot data indicates the parcel is a 1.2 acre lot. Tracks taken during field exam estimated the lawn area adjacent to house on the north and east side, at 0.6 acres. Landscaped area on the south (front of house) and adjacent to driveway on the east is estimated at 0.4 acres. The landscaping consists of bark and numerous small trees and shrubs. Both the lawn and the landscaped area are irrigated with a pressurized sprinkler system.

I recommend permitting 0.04 cfs for Domestic use with 0.5 acre irrigation.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.040 CFS	1.2 AF
<u>Totals:</u>		0.040 CFS	1.2 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name

Date

Reviewer

Date

3/4/2011
5/10/11



Figure 1: West Side Lawn Area



Figure 2: Front of Home and Lawn



Figure 3: East Lawn Area



Figure 4: Front Landscaping, part of East Landscaping and well

Permit #47-17462

