

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

- Permit No. 11-7372
1. Owner: East Shore Water Company Phone No. _____
Current Address: 159 South 750 East Bountiful Utah 84010
2. Accompanied by: James Nebeker EXAM. DATE: 2 Sept 2008
Address: 2230 South 3270 West WVC, Utah 84119 Phone No. _____
Relationship to Permit Holder: Vice President
3. Source: Ground Water tributary to _____

B. OVERLAP REVIEW

1. Other water rights with same place of use: 11-7359

☐ Copies Attached
2. Other water rights with same point of diversion: 11-7359

☒ Copies Attached ☒ Copies of Field Exam's Attached

C. SYSTEM DESCRIPTION

1. **Diversion System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable. ☒ Alternative diagram attached

1. See: attached field exam 11-7359
Engineers report DEQ 04-06-07
Engineers drawing dated 1993
2. The well, & pump have not been changed from the original field exam for 11-7292
3. A 96, thousand gallon storage tank was completed and added to the system in 1989. See drawings and engineering report.

Scale: 1" = _____

2. ☒ Copy of U.S.G.S. Quadrangle Attached ☒ Aerial Photo Attached
Showing location(s) of point(s) of diversion and (required for irrigation of 10 acres or more).
place(s) of use (required).
☐ Photo of Diversion and System Attached
(required for all but single household domestic groundwater, and stockwater).

System Description (continued)

3. **Narrative:** Description (As operating at time of measurement. Indicate pressure, number of sprinklers, etc.)

currently the well serves 70 lots in the East Shore Subdivision (an addition of 11 lots) and 20 lots in Bear Lake Sands II

The pump discharges to a tank located in the SE NE NE Section 12, T16S R44E. from the tank the distribution lines run to East Shore Subdivision, Bear Lake Sands II, and the Villas (2 units built in 2000 & 2005)

☒ See Remarks on page 4 for continuation

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
	<i>Hitachi</i>	<i>20</i>		<i>Grundfos</i>	

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

5. **Point(s) of Diversion:**

Ident. No.	Gov't. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
	<i>1</i>				<i>12</i>	<i>16S</i>	<i>44E</i>	<i>Bear Lake</i>	<i>USGS map previous field exam - on site insp.</i>

6. **Place(s) of Use:**

Indicate Method of Determination _____

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
<i>16S</i>	<i>44E</i>	<i>1</i>																	<i>Gvt H. 2 Domestic</i>
		<i>12</i>																	<i>Gvt H 15, 2 Domestic</i>

Do not use this space

Do not use this space

D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements:

*See DEQ Engineering Report 04-06-07 (attached), page 5.3.0.2 -
Exam performed by Lance Anderson P.E. (Idaho-Utah) 162 gpm.*

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

1. Measured Method: *see engineering report*

2. Alternate Method for Checking Purposes:

F. PUMP EFFICIENCY DATA (Optional)

Discharge Pressure: _____ psi x 2.31 = _____ ft (1); Dynamic pumping level: _____ ft (2)

Total Head: (1) + (2) = _____ (3) ; Flow rate: _____ cfs (4)

Water HP: (3) x (4) ÷ 8.8 = _____ (5)

Meter Input KW: 3.6 x _____ KH x _____ CTR or _____ MULT x _____ PTR x _____ N/ _____ T = _____ (6)

Meter Input HP: (6) x 1.34 = _____ (7)

Panel Input KW: _____ Ave PF x _____ Ave Volts x _____ Ave Amps x .001732 = _____ (6)

Panel Input HP: (6) x 1.34 = _____ (7) Efficiency: (5)/(7) x 100 = _____ %

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

H. REMARKS AND OVERLAP REVIEW ANALYSIS

The 162 gpm flow rate determined by the engineer is .3609 cfs.
 The field exam by Harold Jones, July 1988, determined the well would produce .69 cfs. currently the well is only producing .36 cfs. WR 11-7359 is licensed for .510 cfs so the well is producing .15 (.67 gpm) less than the license. This is probably because with the addition of the storage tank the head on the well was raised 200 plus feet (USGS quad)

I recommend no additional water but the addition of the 11 homes in the East shore subdivision that are shown as "stubbed in" on the 1993 plat attached 70 homes in East Shore & 20 in Bear Lake Sands II
 The villas were built in 2000 and 2005. They need to apply for new WRs

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Domestic (11 homes)	1 Jan	31 Dec	0.00	
Totals:				

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

J. AUTHENTICATION

Field Examiner's Name Dennis M Dunn
 Signature Dennis M Dunn
 Certification Date _____
 Field Report Preparation Date 17 Sept 2008

CONSULTANT SEAL

- K. Licensing recommendation shall be prepared by an Idaho Department of Water Resources employee on a computer printout attached hereto.

47E 43E

153
163

1

1

2

East
Shore Sub
11-7359
7372

Bear Lake
Sands II

The Villas
Do Ws

Bear Lake
Sands
11-4092

N
Emerald
Beach
11-7016
7292

Tank

12

3

4

13

Govt. Lots

N

16S
44E

R44E R45E

Ret.
WEST

T/55
T/65



Sec. 6

22.39
56.00
113.44
40
West
29.60
DITCH

NORTH 4517

20.76
80
2

Sec. 12

272.66
31.00
80
4
38.10
West

N 10° 19' W 358

Sec. 7

MICROFILMED

MAR 19 1987

40.00
41.80
80
2
47.30
342.67
50.30
80
4

NORTH 4013
S 89° 55' W 395
SURVEY

Sec. 18