

BROCKWAY
ENGINEERING
P.L.L.C.

Hydraulics

Hydrology

Water Resources

RECEIVED
AUG 15 2008
DEPARTMENT OF
WATER RESOURCES

August 13, 2008

Ms. Pamela S. Skaggs
Idaho Department of Water Resources
322 East Front Street
P.O. Box 83720
Boise, ID 83720-0098

Re: Permit 37-8388 Beneficial Use Exam Additional Information

Dear Pamela:

In response to your letter dated August 4, 2008 requesting additional information on the volume diversion from the geothermal system, I am submitting the following data. As I indicated during our phone conversation the heating system includes a computerized monitoring program which indicates the percentage of full flow from each of the two pumps providing hot water for the heating system and the hot pool. The percentage of flow is read out on a computer screen, but historical valve settings are not retained.

Based on the observations of David Rosser, the contractor and maintenance person for the facility, I have constructed a spreadsheet which shows the estimated average monthly settings and percentage for each of the two geothermal pumps. Over the time that the facility has been operating Mr. Rosser has observed the pumps during the winter time showing an average of about 87.5% open, although they do operate one pump at 100% and the 2nd as a jockey pump. In the summer time the geothermal use goes down as expected as the heat load is not significant, but the hot pool does continue to operate during the summer time. The spreadsheet shows the average monthly use of geothermal water varies from 24 ac. ft per month to 15.9 ac. ft. It should be noted that during extremely cold winter temperatures the peaks could reach the capacity of the pumps which is 200 gallons a minute.

Please let me know if this data is adequate for you to complete the evaluation of the field exam and licensing of the water right. I understand because the additional information was provided within the 30 days of your request that the priority date will not be advanced.

CHARLES E.
BROCKWAY,
PH.D., P.E.

CHARLES G.
BROCKWAY,
PH.D., P.E.

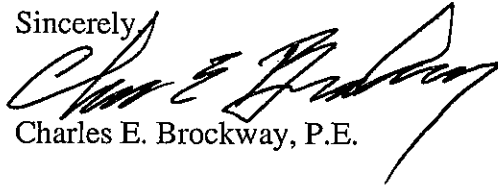
2016 NORTH
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TWIN FALLS,
IDAHO 83301

208•736•8543

FAX: 736•8506

Sincerely,

A handwritten signature in black ink, appearing to read "Charles E. Brockway". The signature is fluid and cursive, with a large, sweeping "C" at the beginning and a long, horizontal stroke at the end.

Charles E. Brockway, P.E.

Enclosure: Spreadsheet

Cc: James Speck
SDRTR, LLC
David Rosser

Robbins Residence Permit 37-8388 SDRTR LLC
 Estimated Annual Geothermal Water Use

Prepared by C.E. Brockway
 Brockway Engineering PLLC 8/11/2008

Based on estimated control valve settings for each month-full occupancy w/ hot pool operating
 as provided by the contractor- Dave Rosser

Includes operation of the hot pool

Pumping Capacity= 200 gpm for both pump control valve settings of 100 percent

Month	Average Control Valve Setting			Average Discharge gpm	Monthly Flow Gallons	acre feet
	Pump 1	Pump2	Average			
January	100	75	87.5	175	7812000	24.0
February	100	75	87.5	175	7056000	21.7
March	100	75	87.5	175	7812000	24.0
April	100	60	80	160	6912000	21.2
May	100	40	70	140	6249600	19.2
June	60	60	60	120	5184000	15.9
July	60	60	60	120	5356800	16.4
August	60	60	60	120	5356800	16.4
September	100	40	70	140	6048000	18.6
October	100	60	80	160	7142400	21.9
November	100	75	87.5	175	7560000	23.2
December	100	75	87.5	175	7812000	24.0
Total					80301600	246.5

Short term discharge requiriements can reach 200 gpm on extremely cold wintertime conditions with the hot pool operating.