

RECEIVED

MAR 2 2009

Transfer No. 76971

DEPARTMENT OF
WATER RESOURCES
STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

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MAR 30 2009

WATER RESOURCES
WESTERN REGION

APPLICATION FOR TRANSFER OF WATER RIGHT MINIMUM REQUIREMENTS CHECKLIST

An application for transfer must be prepared in accordance with the minimum requirements listed below to be acceptable for processing by the Department. The instructions, fee schedule and water right proof report or details report for Part 2A of the transfer application are available from any Department office or on the Department's website @ <http://www.idwr.idaho.gov/>.

Yes N/A Check whether each item below is *attached* (Yes) or *not applicable* (N/A) for the proposed transfer.

☒ Means this item is always required and should be included in application.

- ☒ ☒ Completed Application for Transfer of Water Right form, Part 1.
- ☒ ☒ Notarized signature of applicant(s) or applicant's authorized representative on first page of transfer application form. Include evidence of authority labeled Attachment #3 (see below) if signed by representative.
- ☒ ☒ Application for Transfer Part 2A. Attach a Proof Report (obtained from Department) or Details Report (obtained on website) describing each water right in the transfer as currently recorded.
- ☐ ☒ Complete and attach an Application for Transfer Part 2B/C for each water right for which only a portion is proposed to be changed through this transfer application.
- ☒ ☒ Application for Transfer Part 3A is always required (see Attachment #7a below); Parts 3B and 3C must be completed for transfer applications proposing to change the nature of use of the water right(s) or proposing changes to supplemental right(s).
- ☒ ☒ Correct fee submitted with transfer application form. (See last page of the application for transfer instructions.)

Attachments to Application Label each attachment with the corresponding number shown below as **Attachment #1-9**.

- ☐ ☒ **#1** If the applicant is a business, partnership, organization, or association, and not currently registered in the State of Idaho as a business entity, attach documentation identifying officers authorized to sign or act on behalf of right holder. (See Part 1.)
- ☐ ☒ **#2a** Water Right ownership documentation if Department records do not show the transfer applicant as the current water right owner.
- ☐ ☒ **# 2b** If the ownership of the water right will change as a result of the proposed transfer, attach documentation showing land and/or water right ownership at the new place of use. Include documentation for all affected land and owner(s).
- ☐ ☒ **#3** Documentation of authority to make the change if the applicant is not the water right owner.
- ☐ ☒ **#4** Power of Attorney or documentation providing authority to sign or act on the applicant's behalf. (See Part 1.)
- ☐ ☒ **#5** If the transfer application proposes to change the point of diversion for a water right affecting the Eastern Snake Plain Aquifer (ESPA), attach the results of an ESPA analysis and a detailed mitigation plan to offset any depletions to hydraulically connected reaches of the Snake River. ESPA transfer spreadsheet and model grid labeled cells are available on the Department's website at <http://www.idwr.idaho.gov/water/rights/>.
- ☐ ☒ **#6** Notarized statement of agreement or a statement on official letterhead signed by an authorized representative from each lien holder or other entity with financial interest in water right(s) or land affected by the proposed transfer. (See Part 1.5.b.)
- ☒ ☒ **#7a** Attach a map identifying the proposed point(s) of diversion, place(s) of use, and water diversion and distribution system details as described on the application. Include legal description labels. If only a portion of the right is proposed to be changed, identify the current location of the part of the existing right(s) proposed to be changed. (See Part 3A.)
- ☐ ☒ **#7b** If the transfer application proposes to change the place or purpose of use of an irrigation right attach a Geographic Information System (GIS) shape file, or an aerial photo or other image clearly delineating the location and extent of existing acres and changes to the place of use.
- ☐ ☒ **#8a** If the transfer application proposes to change the nature of use or period of use for one or more rights, provide documentation describing the extent of historic beneficial use for the water rights proposed to be transferred and describe how enlargement will be avoided. (See Part 3B.)
- ☐ ☒ **#8b** If the transfer application proposes to change the place of use of a supplemental irrigation right, provide documentation regarding the historic availability or reliability of the primary right(s) being supplemented, both before and after the proposed change. (See Part 3C.)
- ☒ ☐ **#9** Other. Please describe: Beneficial Use Field Report

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MAR 23 2009

DEPARTMENT OF
WATER RESOURCESTransfer No. 76971

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WATER RESOURCES
WESTERN REGIONSTATE OF IDAHO
DEPARTMENT OF WATER RESOURCESAPPLICATION FOR TRANSFER OF WATER RIGHT
PART 1Name of Applicant Parklane Company, Inc. Phone 208-345-3221Mailing address 817 W. Franklin St., Boise, ID 83702 Email kghowell@parklaneco.com

- ☐ If applicant is not an individual and not registered to do business in the State of Idaho, attach documentation identifying officers authorized to sign or act on behalf of the applicant. Label it **Attachment #1**.
- ☐ Attach water right ownership documentation if Department records do not show the transfer applicant as the current water right owner. Label it **Attachment #2a**.
- ☐ If the ownership of the water right will change as a result of the proposed transfer, attach documentation showing land and water right ownership at the new place of use. Include documentation for all affected land and owner(s). Label it **Attachment #2b**.
- ☐ Attach documentation of authority to make the proposed change if the applicant is not the water right owner. Label it **Attachment #3**.

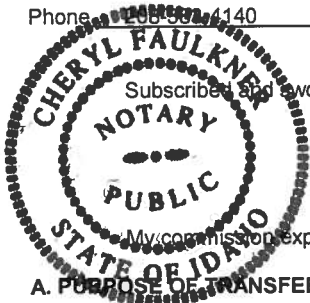
I hereby assert that no one will be injured by the proposed changes and that the proposed changes do not constitute an enlargement in use of the original right(s). The information contained in this application is true to the best of my knowledge. I understand that any willful misrepresentations made in this application may result in rejection of the application or cancellation of an approval.

Lori Graves, with SPF Water Engineering, is authorized to make modifications to this application during processing on behalf of applicant,

Signature of Applicant or Authorized Representative

Print Name and Title if applicable

- ☐ If signed by authorized representative, attach Power of Attorney or documentation proving authority to sign on the applicant's behalf. Also attach documentation providing authority for others—consultants, attorneys or representatives—to act on the applicant's behalf. Label documents Attachment #4.

Representative's name and mailing address Lori Graves, SPF Water EngineeringPhone 208-345-4140 Email lgraves@spf.comSubscribed and sworn to before me this 16th day of March, 2009

(Notary Public)
My commission expires 10/31/2009

A. PURPOSE OF TRANSFER

1. ☐ Change point of diversion ☒ Add diversion point(s) ☐ Change place of use
☐ Change nature of use ☐ Change period of use ☐ Other _____

2. Describe your proposal in narrative form, including a detailed description of non-irrigation uses to justify amounts transferred, (i.e. number of stock, etc.) and provide additional explanation of any other items on the application. Attach additional pages if necessary and label it **Part 1A.2**.

Applicant has received approval from ACHD to discharge the water right's spent cooling water into ACHD's storm water drain system rather than an existing injection well. Applicant now proposes using the injection well as a second production well for the closed loop exchange system.

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DEPARTMENT OF
WATER RESOURCES
STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR TRANSFER OF WATER RIGHT

PART 1 Continued

B. DESCRIPTION OF RIGHT(S) OR PORTION THEREOF, AFTER THE REQUESTED CHANGE

1. Right Number	Amount (cfs/ac-ft)	Nature of Use	Period of Use	Source & Tributary
63-12342	0.26 cfs/*23.0 afa	Cooling	3/15 to 11/15	Ground Water
			to	
			to	
			to	
			to	
			to	
			to	
			to	
			to	

2. Total amount of water being transferred 0.26 cubic feet per second and/or *23.0 acre-feet per annum.

3. Point(s) of Diversion:

- ☐ Attach Eastern Snake Plain Aquifer analysis if this transfer proposes to change a point of diversion within ESPA.
Label it **Attachment #5**.

Lot	¼	¼	¼	Sec	Twp	Rge	County	Local Name for Diversion
		NW	NE	10	3N	2E	Ada	Current Production Well
		NW	NE	10	3N	2E	Ada	Former Injection Well

4. Place of use: (If irrigation, identify with number of acres irrigated per ¼ ¼ tract)

Twp	Rge	Sec	NE ¼				NW ¼				SW ¼				SE ¼				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
3N	2E	10		X															

Total Acres (for irrigation use) _____

* Volume amount was not listed in the Beneficial Use Field Report. The 23.0 ac-ft amount reflects the volume calculated by the department in a 1996 memo included in Attachment 9 regarding a general review of the permit's cooling use requirements. This amount is subject to change pending final licensing.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCESAPPLICATION FOR TRANSFER OF WATER RIGHT
PART 1 Continued

5. General Information:

- a. Describe the complete diversion system, including how you will accommodate a measuring device and lockable controlling works should they be required now or in the future:

See Attachment 9. Rather than using the injection well as described in the department's Beneficial Use Field Report, the spent cooling water is now discharged into ACHD's storm water drain system located in the alley behind the Union Block Building.

- b. Are the lands from which you propose to transfer the water right subject to any liens, deeds of trust, mortgages, or contracts? If yes, ☐ Attach a notarized statement from the holder of the lien, deed of trust, mortgage or contract agreeing to the proposed changes. Label it **Attachment #6**. List the name of the entity and type of lien:

N/A

It is the applicant's responsibility to provide notice to lien holder, trustee, mortgagor, or contract holder of the proposed changes that may impact or change the value of the water rights or affected real property. Any misrepresentation of legal encumbrance on this application may result in rejection of the application or cancellation of an approval.

- c. Describe the affect on the land now irrigated if the place of use is changed pursuant to this transfer:

N/A

- d. Describe the use of any other water right(s) for the same purpose or land, or the same diversion system as right(s) proposed to be transferred at both the existing and proposed point(s) of diversion and place(s) use:

The closed loop exchange system can also utilize water from the City of Boise geothermal system and municipal water.

- e. To your knowledge, has/is any portion of the water right(s) proposed to be changed

Yes No

- | | | |
|--------------------------|-------------------------------------|---|
| ☐ | ☒ | undergone a period of five or more consecutive years of non-use, |
| ☐ | ☒ | currently leased to the Water Supply Bank, |
| ☐ | ☒ | currently used in a mitigation plan, or |
| ☐ | ☒ | currently enrolled in a Federal set-aside program limiting the use of water under the rights? |

If yes, describe:

APPLICATION FOR TRANSFER OF WATER RIGHT

PART 2

For each water right listed in Part B.1. of the application, attach a Proof Report (obtained from Department) or Details Report (obtained from website @ <http://www.idwr.idaho.gov/apps/ExtSearch/SearchWRAJ.asp>). Label it **Part 2A**.

☒ Complete and attach one copy **Part 2B.** for each right for which only a portion is proposed to be changed. If the entire right is proposed to be changed, Part 2B. is not applicable.

1. amount _____ (cfs/ac-ft) for _____ purposes from _____ to _____
 amount _____ for _____ purposes from _____ to _____
 amount _____ for _____ purposes from _____ to _____
 amount _____ for _____ purposes from _____ to _____
 amount _____ for _____ purposes from _____ to _____

[illegible][illegible]

Total Acres _____

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 2A**

Current Water Right No.: 63-12342

Current Owner: PARKLANE CO
Priority Date: 6/19/1996
Origin: Water Right
Status: Active
Basis: License

Source

Tributary

GROUND WATER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Annual Volume</u>
COOLING	03/15 to 11/15	0.26 CFS	125 AF
	<u>Total Diversion</u>	0.26 CFS	125 AF

Location of Point(s) of Diversion

GROUND WATER
ADA County
NW1/4NE1/4 Sec. 10, Twp 03N, Rge 02E B.M.

Place of Use

COOLING Within ADA County

T03N R02E S10 NWNE

Conditions of Approval:

1. 01M After specific notification by the Department, the right holder shall install a suitable measuring device or shall enter into an agreement with the Department to use power records to determine the amount of water diverted and shall annually report the information to the Department.
2. Cooling is for Union Block Building.
3. R07 Return flow discharged to a subsurface system must be authorized by a separate injection well permit.
4. Water bearing zone to be appropriated is from 79 to 195 feet. All flows to be reinjected to same zone.
5. 027 Use of water under this right shall be non-consumptive.
6. 073 Diversion and use of water with a temperature greater than 85 degrees Fahrenheit is not authorized under this right.

Licensed Date: 7/7/2010

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR TRANSFER OF WATER RIGHT

PART 3

A. PLAT MAP (See Part 3A.of Instructions for complete requirements.)

- ☒ Attach a map of the diversion, measurement, control, and distribution system. Label it **Attachment #7a**.
- ☐ If the transfer application proposes to change the place or purpose of use of an irrigation right attach a Geographic Information System (GIS) shape file, or an aerial photo or other image clearly delineating the location and extent of existing acres and changes to the place of use. Label it **Attachment #7b**

B. CHANGES IN NATURE OF USE (Water Balance)

- ☐ If you propose to change the nature of use or period of use of all or part of the right(s) listed in this application, attach documentation describing the extent of historic beneficial use of the portion of the right(s) proposed to be changed. Also attach documentation showing that the portion of the right(s) to be changed will not be enlarged in rate, volume, or consumptive use through the proposed change. Label it **Attachment #8a**.

C. PLACE OF USE CHANGES TO SUPPLEMENTAL IRRIGATION RIGHTS

- ☐ If you propose to change the place of use of a supplemental irrigation right, answer below and attach supporting documentation. Label it **Attachment #8b**.

1. Describe how the supplemental ground water rights have been used historically in conjunction with other water right(s) at the existing place of use. Describe the time during the irrigation season that the supplemental right(s) have been used. Include information about the availability or reliability of the primary right(s) being supplemented, both before and after the change:

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

FOR DEPARTMENT USE ONLY

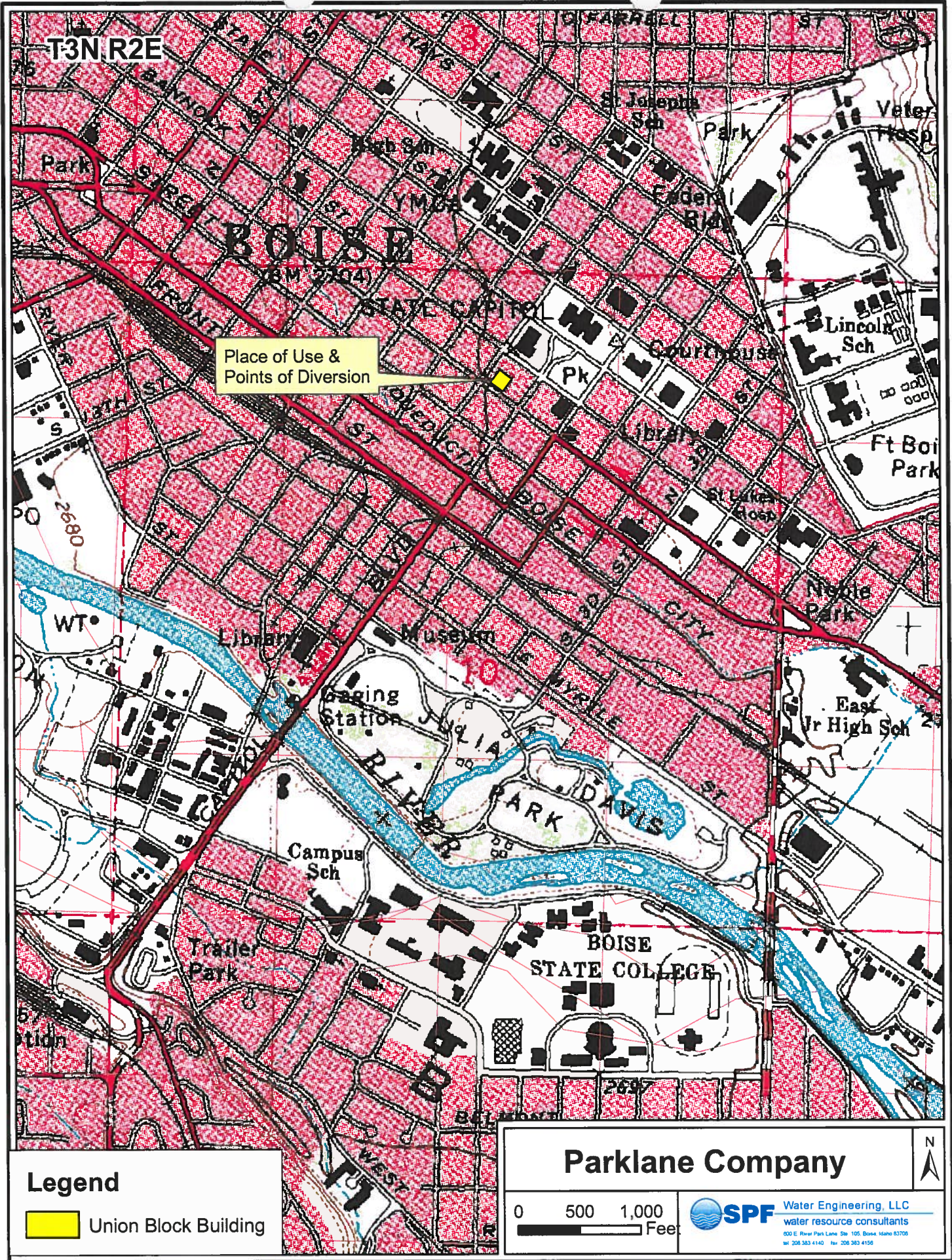
Transfer contains 7 pages and 4 attachments.

Received by S.O. by DB Date 3-23-09 Prelim. Check by AG Date 6/30/2011

Fee Amount \$250-- Date 3/23/2009 Received by 3 R 7 Receipt # C088274

Fee Amount _____ Date _____ Received by _____ Receipt # _____

ATTACHMENT 7a
TRANSFER MAP



T3N R2E

BOISE

(BM 2704)

STATE CAPITOL

Place of Use &
Points of Diversion

Library

Museum

Gaging
Station

Campus
Sch

Trailer
Park

BOISE
STATE COLLEGE

Legend

 Union Block Building

Parklane Company

0 500 1,000
Feet



Water Engineering, LLC
water resource consultants
800 E. River Park Lane Ste 105, Boise, Idaho 83706
Tel 208 363 4140 Fax 208 363 4158

ATTACHMENT 9

IDWR BENEFICIAL USE FIELD REPORT & VOLUME MEMO

ATTACHMENT 9 (5 PGS)

TRANSFER No. 76971

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED
DEC 16 1997

Department of Water Resources

A. GENERAL INFORMATION

Permit No. 63-12342

1. Owner: Parklane Co. Phone No. (208) 345-3221

Current Address: 817 W. Franklin Av., Boise, ID 83702

2. Accompanied by: Jim Campbell EXAM DATE: 11-19-97

Address: Union Block BLDG., 710 W. Idaho, Boise, ID Phone No. (208) 861-4472

Relationship to Permit Holder: Contractor - Project Developer

3. Source: Groundwater tributary to closed

B. OVERLAP REVIEW

1. Other water rights with the same place of use:

2. Other water rights with the same point of diversion:

None for this Heating/Cooling system. The system can also receive water from the Geothermal system from Warm Springs and the building potable water system from United Water.

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

closed system with respect to the production & injection wells - but the Geothermal & Potable water systems are also piped into the building system. Not sure what these WR #s are. This is a

Ident No.	Gov't Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
			NW	NE	10	3N	ZE	Ada	Site Visit, Map

water systems are also piped into the building system.

2. Place(s) of Use:

Indicate Method of Determination

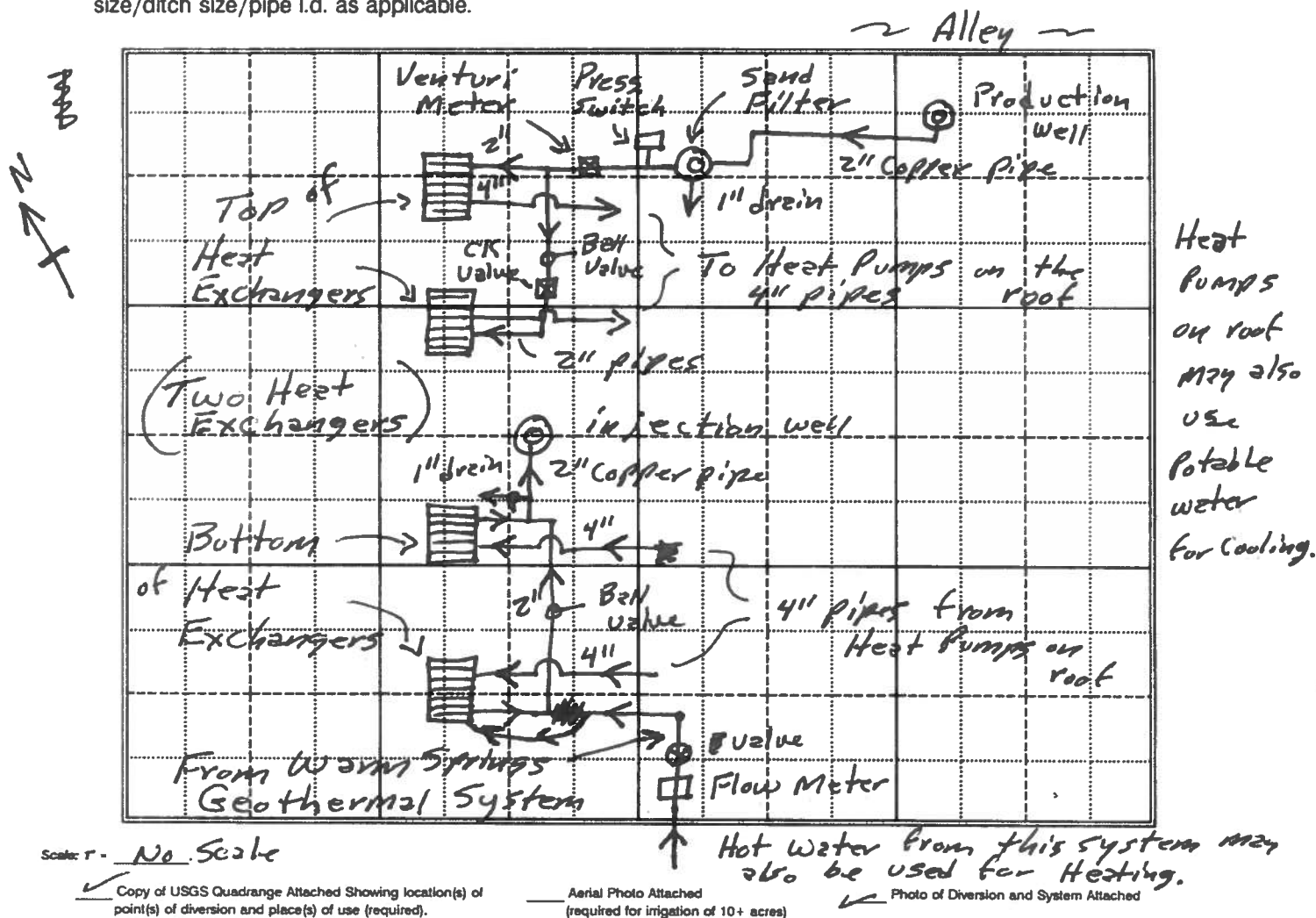
Site Visit, Map

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
3N	ZE	10		Heat Cool															

ATTACHMENT 9 (5 pgs)

TRANSFER No. 76971

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.



4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
		10		Caron Pump Co.	

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

D. FLOW MEASUREMENTS

1.

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

2. Measurements: None - There is a Venturi Meter Installation on the 2" line from the well, but the probes and electrical system has not be installed. No flow measurement possible.

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E. NARRATIVE/REMARKS/COMMENTS

1. The water for this permit is used both for heating and cooling of the Union Block BLDG. Water is pumped from the production well through two Heat Exchangers, and injected at another well.
2. The water in this permit does not mix with any other water - it is a closed system. Hot water from the Warm Springs Geothermal system can also be circulated through the same Heat Exchangers, to add additional heat when needed.
3. The building has another closed water system which circulates water through the same heat exchangers and then through heat pumps located on the roof. Potable water can also be circulated through these heat pumps for cooling.
4. The heat exchangers transfer energy from the well water to the separate water system that circulates through the heat pumps.
5. The well water is mainly used for cooling.
6. A pressure switch operates the system at 50-70 PSI. The Venturi meter installation still needs the probes and electrical to be operational.

Have conditions of permit approval been met? ☒ yes ☐ no

F. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: *None; theoretical:*

$$\text{Max. Div. } Q = \frac{(8.8)(10 \text{ HP})(70\%)}{15' + (50 \text{ PSI}) \left(\frac{34'}{14.7 \text{ PSI}} \right)} = \underline{0.47 \text{ cfs}} > \underline{0.26 \text{ cfs}} \text{ on permit}$$

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$$

$$V_{D.R.} = [\text{Diverson Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \underline{\hspace{2cm}}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$$

2. Volume Calculations for Other Uses:

*Heating / Cooling: This is a closed system which injects pumped water back into the same zone.
Non-~~consumptive~~ consumptive use.*

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diverson Q (cfs)	Annual Volume V (afa)
	From	To		
<i>Heating / Cooling</i>	<i>03/15</i>	<i>11/15</i>	<i>0.26</i>	
Totals:			<i>0.26</i>	

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

Add Heating

I. AUTHENTICATION

Field Examiner's Name *Don Zambich* Date *12-5-97*

Reviewer _____ Date _____

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The water is mainly used for cooling as shown on the permit, but some heat is also extracted by the heat exchangers when the building system is in the heating mode.

SEAL

MEMORANDUM

TO: File 63-12342

FROM: CINDY ZIMMERMAN C3

RE: GENERAL REVIEW OF COOLING USE REQUIREMENTS

DATE 08/15/96

RATE OF FLOW AND ANNUAL VOLUME FOR COOLING USE

GIVEN:

Source Temperature	59 degrees ^①
Area / 7 Story Mixed Uses	28000 sq. ft. ^①
Temperature Outside	86 degrees
Temperature Inside	71 degrees
Building Efficiency	0.67 ^①
Temperature Required	72 degrees
Days temperature above 70	90 days
Hours per day temp above 70	12 hours

CALCULATIONS:

Single Floor Cooling Load	(281,400) btu/hr
Two+ Floor Cooling Load	(225,120) btu/hr
Temp. Drop Across System	-3.9 degrees

FLOW RATE:

Single Floor Flow Rate	144 gpm 0.32 cfs
------------------------	---------------------

Two+ Floor Flow Rate	115 gpm 0.26 cfs
----------------------	---------------------

VOLUME:

Single Floor Annual Volume	28.7 af
Two+ Floor Annual Volume	23.0 af

EFFICIENCY RATING INFORMATION **

0.28 Best energy efficiency rating
0.44 Good energy efficiency rating
0.67 Average energy efficiency rating
1.11 Poor energy efficiency rating

** Source - Administrator's Memorandum dated 9/28/92.

① per Jim Campbell, Union Block Bldg. construction manager 381-0483.

AUG 21 1996

95 TRANSFER No. 76971

Well Driller's Reports

ATTACHMENT A (4 PGS) TRANSFER No. 76971

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT
Use Typewriter or Ballpoint Pen

68151

Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
_____ 1/4 _____ 1/4 _____ 1/4
Lat: : : Long: : :

1. DRILLING PERMIT NO. 63-96-C-0396-0000
Other IDWR No. 63-12342

2. OWNER: PARK LANE
Name JIM CAMPBELL / UNION BIK RW.
Address 710 W. Idaho ST.
City BOISE State ID Zip 83702

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N
W
E
S
Twp. 3 North ☒ or South ☐
Rge. 2 East ☒ or West ☐
Sec. 70 NW 1/4 NE 1/4 1/4
Gov't Lot _____ County ADA 10 acres 160 acres
Lat: : : Long: : :
Address of Well Site 710-720 W. Idaho ST. City BOISE
(Give at least name of road - Distance to Road or Landmark)
Lt. 43 Blk. _____ Sub. Name _____

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☒ Other INDUSTRIAL

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks or Pounds		
<u>Bentonite</u>	<u>6</u>	<u>18</u>	<u>300</u>		<u>OVERBORE</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 79
Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6"</u>	<u>+1</u>	<u>79</u>	<u>14</u>	<u>Steel</u>	☒	☐	☒	☐

Length of Headpipe 4 Length of Tailpipe 1

9. PERFORATIONS/SCREENS

☐ Perforations Method Pull Back
☒ Screens Screen Type Houston

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>79</u>	<u>89</u>	<u>.020</u>		<u>5"</u>	<u>SS</u>	☒	☒

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

30 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: N/A

11. WELL TESTS:

☒ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian	Yield gal./min.	Drawdown	Pumping Level	Time
	<u>100</u>	<u>40</u>	<u>70</u>	<u>1 hr.</u>

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>10"</u>	<u>0</u>	<u>5</u>	<u>OPEN AIR</u>		☒
<u>10"</u>	<u>5</u>	<u>10</u>	<u>FILL</u>		☒
<u>10"</u>	<u>10</u>	<u>18</u>	<u>SAND & GRAVEL</u>		☒
<u>6"</u>	<u>18</u>	<u>65</u>	<u>SAND & GRAVEL</u>	☒	
<u>6"</u>	<u>65</u>	<u>73</u>	<u>SANDY CLAY</u>		☒
<u>6"</u>	<u>73</u>	<u>90</u>	<u>SAND & GRAVEL</u>	☒	

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WESTERN REGION

AUG 26 1997

Department of Water Resources

Completed Depth 90 (Measurable)
Date: Started 7-21-96 Completed 7-31-96

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name Phipps Drilling Firm No. 311

Firm Official Wesley A. Giff Date 8-21-97

and _____

Supervisor or Operator Sam Date _____

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

A, TRANSFER No. 76971

ACHD Discharge License

ATTACHMENT B (10 PGS) TRANSFER No. 76971



Carol A. McKee, President
Sherry R. Huber, 1st Vice President
Dave Bivens, 2nd Vice President
John S. Franden, Commissioner
Rebecca W. Arnold, Commissioner

August 22, 2008

Union Block Association LLC
Parklane Management Co.
Mr. Doug Maestas
P. O. Box 2725
Boise, ID 83701

Dear Mr. Maestas:

The License Agreement to construct, install and maintain 4" PVC conduit 16 ft long under the alleyway between Bannock and Idaho and 8th and 9th Street to discharge water from cooling cell dispersing through heat exchanger and discharging into ACHD Storm Drain System to service the building located at 720 West Idaho Street was considered and approved by the Ada County Highway District. Please remember to call Construction Services at 387-6280 to verify if any additional Construction Permits are required.

Enclosed is your copy of the License Agreement outlining all the terms and conditions and assigned #1032-2113-0808. Please use this number in all future correspondence regarding this matter.

Sincerely,

ADA COUNTY HIGHWAY DISTRICT

Karen L. Arnold
Right of Way Account Clerk

Enclosure

B₁ TRANSFER No. 76971

Property Management No. 1032 - 2113 - 0808
Street: **720 W Idaho St**
T.3N., R.2E., Sec. 10

TEMPORARY LICENSE AGREEMENT

THIS TEMPORARY LICENSE AGREEMENT (the "Agreement") is made and entered into this 22nd day of AUGUST, 2008, by and between the ADA COUNTY HIGHWAY DISTRICT, a body politic and corporate of the state of Idaho, ("ACHD") and **UNION BLOCK ASSOCIATION L.L.C.**, ("Licensee").

WITNESSETH:

For good and valuable consideration, the receipt and sufficiency of which is acknowledged by the parties:

SECTION 1. RECITALS.

1.1 ACHD owns and has exclusive jurisdiction over the public right-of-way located in Ada County, Idaho, more particularly described and/or depicted on Exhibit "A" attached hereto (the "Right-of-Way").

1.2 Licensee desires a license to use the Right-of-Way for the limited purposes hereinafter set forth, and, for the consideration and on the terms and conditions hereinafter set forth, ACHD is willing to extend such license to Licensee.

SECTION 2. LICENSE; LICENSE NOT EXCLUSIVE.

2.1 On the terms and conditions hereinafter set forth, ACHD hereby extends to Licensee a license on, over, across and under the Right-of-Way for the following uses and purposes ("Authorized Use") and no others:

Licensee to construct, install and maintain 4" PVC conduit 16 ft long under the alleyway between Bannock & Idaho and 8th & 9th Street to discharge water from cooling cell dispersing through heat exchanger and discharging into ACHD Storm Drain System to service the building located at 720 W Idaho Street.

Licensee to pump at a maximum of 250GPM into ACHD Storm Drain System. During the term of this Agreement Licensees shall maintain an active membership in Digline, Inc.

2.2 This Agreement does not extend to Licensee the right to use the Right-of-Way to the exclusion of ACHD for any use within its jurisdiction, authority and discretion

or of others to the extent authorized by law to use public right-of-way. If the Right-of-Way has been opened as a public Highway (as used in the Agreement the term "Highway" is as defined in Idaho Code § 40-109(5)) Licensee's Authorized Use is subject to the rights of the public to use the Right-of-Way for Highway purposes. Licensee's Authorized Use is also subject to the rights of holders of easements of record or obvious on inspection of the Right-of-Way and statutory rights of utilities to use the public right-of-way. This Agreement it is not intended to, and shall not, preclude or impede the ability of ACHD to enter into other similar agreements in the future allowing third parties to also use its public rights-of-way, or the ability of ACHD to redesign, reconstruct, relocate, maintain and improve its public rights-of-way and Highways as authorized by law and as it determines, in its sole discretion, is appropriate.

SECTION 3. CONSTRUCTION, OR INSTALLATION OF IMPROVEMENTS. Any repairs or maintenance, of the Licensee's improvements currently located in the Right-of-Way or the installation or construction of improvements by Licensee in the Right-of-Way as permitted by the Authorized Use, (the "Improvements"), shall be accomplished in accordance with designs, plans and specifications approved in advance and in writing by ACHD as required to satisfy applicable laws, its policies and good engineering practices. In approving such plans and specifications, ACHD assumes no responsibility for any deficiencies or inadequacies in the design or construction of the Improvements, and the responsibility therefor shall be and remain in Licensee.

SECTION 4. WAIVER AND ESTOPPEL STATEMENT BY LICENSEE. Licensee acknowledges and agrees that the license granted herein is temporary, non-transferable, and merely a permissive use of the Right-of-Way pursuant to this Agreement Licensee further acknowledges and agrees that it specifically assumes the risk that the license pursuant to this Agreement may be terminated before Licensee has realized the economic benefit of the cost of installing, constructing, repairing, or maintaining the Improvements, and Licensee hereby waives and estops itself from asserting any claim that the license is in any way irrevocable because Licensee has expended funds on the Improvements and the Agreement has not been in effect for a period sufficient for Licensee to realize the economic benefit from such expenditures.

SECTION 5. TERM.

5.1 The term of this Agreement will commence on the 22nd day of August, 2008, and will continue until terminated by either party, with or without cause, which termination shall be effective following THIRTY (30) DAYS advance written notice of termination given the other party.

5.2 If Licensee defaults in the performance of any obligations incumbent upon it to perform hereunder ACHD may terminate this Agreement and the rights extended to Licensee hereunder at any time, effective at the end of thirty (30) days following the date ACHD shall provide written notice of termination to Licensee, which notice shall

specify such default(s). Licensee shall have such thirty (30) day period to correct and cure the specified defaults, and if so corrected and cured, to the satisfaction of ACHD, this Agreement shall not be terminated but shall continue in full force and effect.

SECTION 6. FEE. Throughout the term of this Agreement, Licensees agree to pay ACHD an annual fee for the Authorized Use of the Right-of-Way of \$ 300.00, due and payable on the 1st day of January of each year, beginning January 1, 2009. Licensees agree to pay the prorated sum of \$ 125.00 for the period of August, 2008 through December 31, 2008. If this license is terminated under section 4 prior to the end of the period paid for in advance, ACHD agrees to refund the unearned prorata portion of such prepaid fee.

SECTION 7. MAINTENANCE; FAILURE TO MAINTAIN; RELOCATION OF UTILITIES.

7.1 At its sole cost and expense, Licensee shall maintain the Improvements in good condition and repair and as required to satisfy applicable laws, the policies of ACHD and sound engineering practices. Licensee shall have access over, across and under the Right-of-Way for the purposes of accomplishing such repair and maintenance.

7.2 If the Highway on and/or adjacent to the Right-of-Way is damaged as a result of:

- (i) the performance by Licensee of the maintenance required by section 7.1, or the failure or neglect to perform such maintenance; and/or
- (ii) Licensee's design, installation or use of the Improvements, regardless of cause;

at its sole cost and expense Licensee shall forthwith correct such deficiency and restore the Highway and the surface of the Right-of-Way to the same condition it was in prior thereto, and if Licensee shall fail or neglect to commence such correction and restoration within twenty-four (24) hours of notification thereof, ACHD may proceed to do so, in which event Licensee agrees to reimburse ACHD for the costs and expenses thereof, including, without limitation, reasonable compensation for the use of staff and equipment of ACHD.

7.3 Notwithstanding the provisions of section 7.2, should an emergency exist related to the Licensee's use of this license which threatens the stability or function of the Highway on or adjacent to the Right-of-Way or the safety of the public use thereof, ACHD shall have the right to immediately perform, on behalf of, and at the cost of Licensee necessary emergency repairs.

7.4 Licensee will be responsible for the relocation of any existing utilities located on the Right-of-Way as may be required in connection with any construction or installation of Improvements by Licensee in the Right-of-Way.

SECTION 8. RELOCATION OF IMPROVEMENTS. If during the term of this Agreement ACHD requires, in its sole discretion, at any time, and from time to time, that the Highway on and/or adjacent to the Right-of-Way be widened and/or realigned, redesigned, improved and/or reconstructed, Licensee hereby accepts responsibility for all costs for relocating, modifying or otherwise adapting the Improvements to such realignment and/or relocation and/or reconstruction if required by ACHD, which shall be accomplished by Licensee according to designs, plans and specifications approved in advance by ACHD in writing; provided Licensee may elect to terminate this Agreement in lieu of complying with this responsibility, and further provided ACHD gives Licensee adequate written notice as necessary to allow Licensee to redesign, relocate, modify or adapt the Improvements to the realignment and/or relocation and/or reconstruction of the Highway and also licenses Licensee such additional area of its right-of-way, if any, as may be necessary for the proper operation of the Improvements.

SECTION 9. PERMIT. If the proposed construction and installation of the Improvements, or any reconstruction, relocation or maintenance thereof requires Licensee to obtain a permit under ACHD policies, Licensee shall first obtain such permit from ACHD (Construction Services Division) before commencing such work, and pay the required fees and otherwise comply with the conditions set forth therein.

SECTION 10. NO TITLE IN LICENSEE. Licensee shall have no right, title or interest in or to the Right-of-Way other than the right to temporarily use the same pursuant to the terms of this Agreement.

SECTION 11. NO COSTS TO ACHD. Any and all costs and expenses associated with Licensee's Authorized Use of the Right-of-Way, or any construction or installation of Improvements thereon, or the repair and maintenance thereof, or the relocation of Improvements or utilities thereon, or the restoration thereof at the termination of this Agreement, shall be at the sole cost and expense of Licensee.

SECTION 12. TAXES AND ASSESSMENTS. Licensee agrees to pay all special assessments and personal property taxes that may be levied and assessed on the Improvements during the term of this Agreement.

SECTION 13. RESTORATION ON TERMINATION. Upon termination of this Agreement, Licensee will promptly remove all Improvements and restore the Right-of-Way to at least its present condition. Should Licensee fail or neglect to promptly remove the Improvements and restore the Right-of-Way, ACHD may do so, and assess Licensee for the costs thereof. Provided, ACHD and Licensee may agree in writing that some or all of such Improvements are to remain on the Right-of-Way following termination, and by entering into such an agreement Licensee thereby disclaims all

right, title and interest in and to the same, and hereby grants such Improvements to ACHD, at no cost. Further provided, if the Authorized Use of the Right-of-Way under this Agreement is for landscaping in ACHD right-of-way and the irrigation and maintenance thereof, and the general purpose government with jurisdiction has adopted ordinances, rules and regulations governing the landscaping and maintenance of such right-of-way by owners of the adjacent property, to the extent such owners are obligated to maintain and irrigate the landscaping Licensee need not remove the same from the Right-of-Way.

SECTION 14. INDEMNIFICATION. Licensee hereby indemnifies and holds ACHD harmless from and against any and all claims or actions for loss, injury, death, damages, mechanics and other liens, arising out of the failure or neglect of Licensee, Licensee's employees, contractors and agents, to properly and reasonably make Authorized Use of the Right-of-Way or properly construct, install, plant, repair or maintain the Improvements thereon, or that otherwise result from the use and occupation of the Right-of-Way by Licensee, and including any attorney fees and costs that may be incurred by ACHD in defense of such claims or actions indemnified against by Licensee hereunder. For claims or actions arising out of failures or neglects occurring during the term of this Agreement Licensee's obligations pursuant to this section shall survive the termination of this Agreement.

SECTION 15. COMPLIANCE WITH LAW; WASTE AND NUISANCES PROHIBITED. In connection with Licensee's use of the Right-of-Way, throughout the term of this Agreement Licensee covenants and agrees to: (i) comply and observe in all respects any and all, federal, state and local statutes, ordinances, policies, rules and regulations, including, without limitation, those relating to traffic and pedestrian safety, the Clean Water Act and/or to the presence, use, generation, release, discharge, storage or disposal in, on or under the Right-of-way of any Hazardous Materials (defined as any substance or material defined or designated as hazardous or toxic waste, material or substance, or other similar term, by any federal, state or local environmental statute, regulation or occurrence presently in effect or that may be promulgated in the future); (ii) obtain any and all permits and approvals required by ACHD or any other unit of government; and (iii) commit no waste or allow any nuisance on the Right-of-Way. Licensee covenants and agrees to indemnify and hold ACHD harmless from and against any and all claims, demands, damages, liens, liabilities and expenses (including without limitation, reasonable attorneys' fees), arising directly or indirectly from or in any way connected with the breach of the foregoing covenant. These covenants shall survive the termination of this Agreement.

SECTION 16. ASSIGNMENT. Licensee cannot sell, assign or otherwise transfer this Agreement, the license herein extended, or any of its rights hereunder except with the prior written consent of ACHD, which consent will not be granted unless the assignee assumes all obligations, warranties, covenants and agreements of Licensee herein contained.

22.2 If Licensees are not a natural person, the person executing the Agreement on behalf of Licensees represent and warrant due authorization to do so on behalf of Licensees, and that upon execution of this Agreement on behalf of Licensees, the same is binding upon, and shall inure to the benefit, of Licensees.

IN WITNESS WHEREOF, the undersigned have caused this Agreement to be executed the day, month and year first set forth above.

ADA COUNTY HIGHWAY DISTRICT

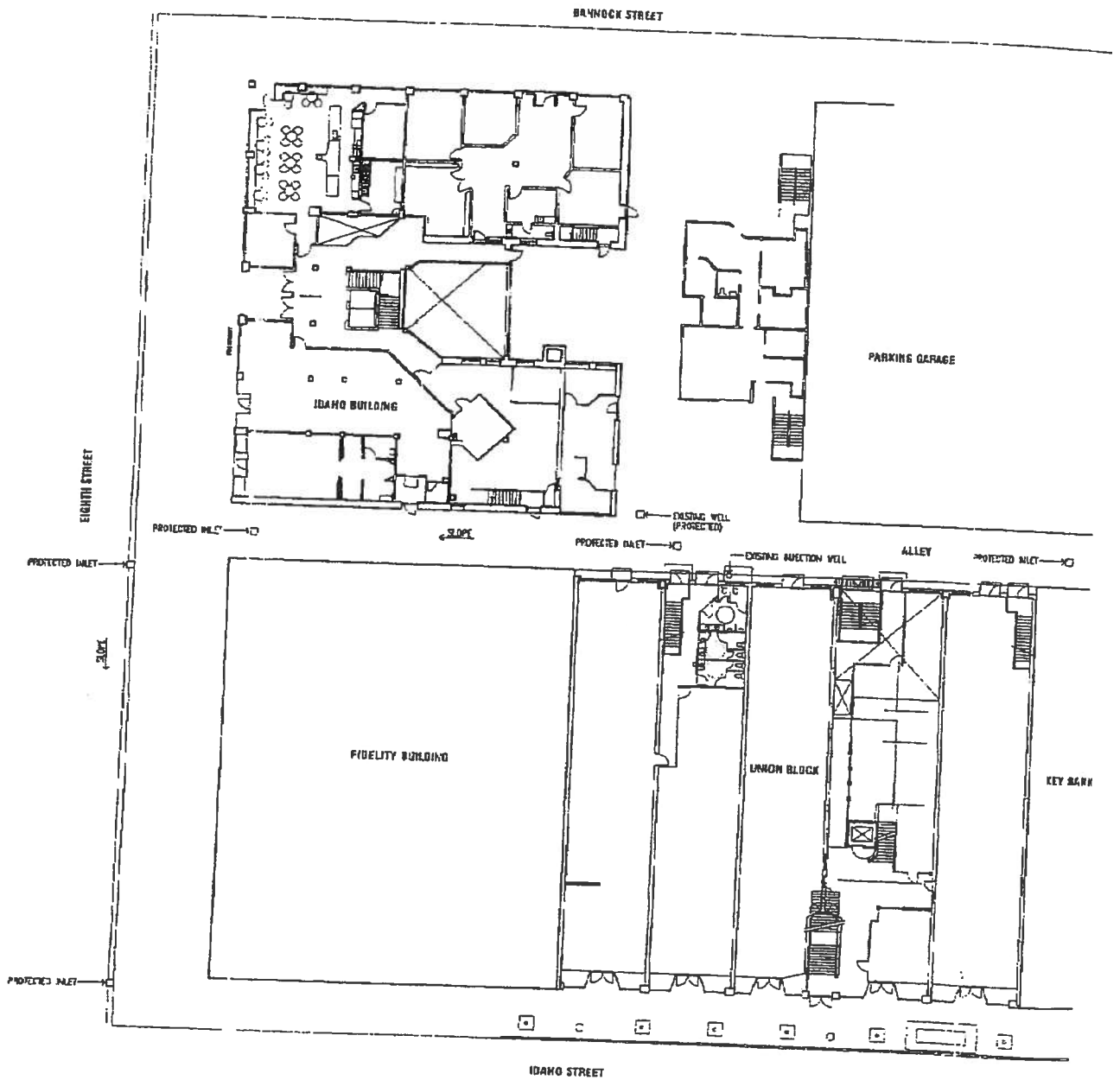

By: Chanon B Romo
Its: Right of Way Supervisor

LICENSEE: UNION BLOCK ASSOCIATION L.L.C.


By: Ken Howell
Its: Member

EXHIBITS

Exhibit A - Description and Depiction of Right-of-Way

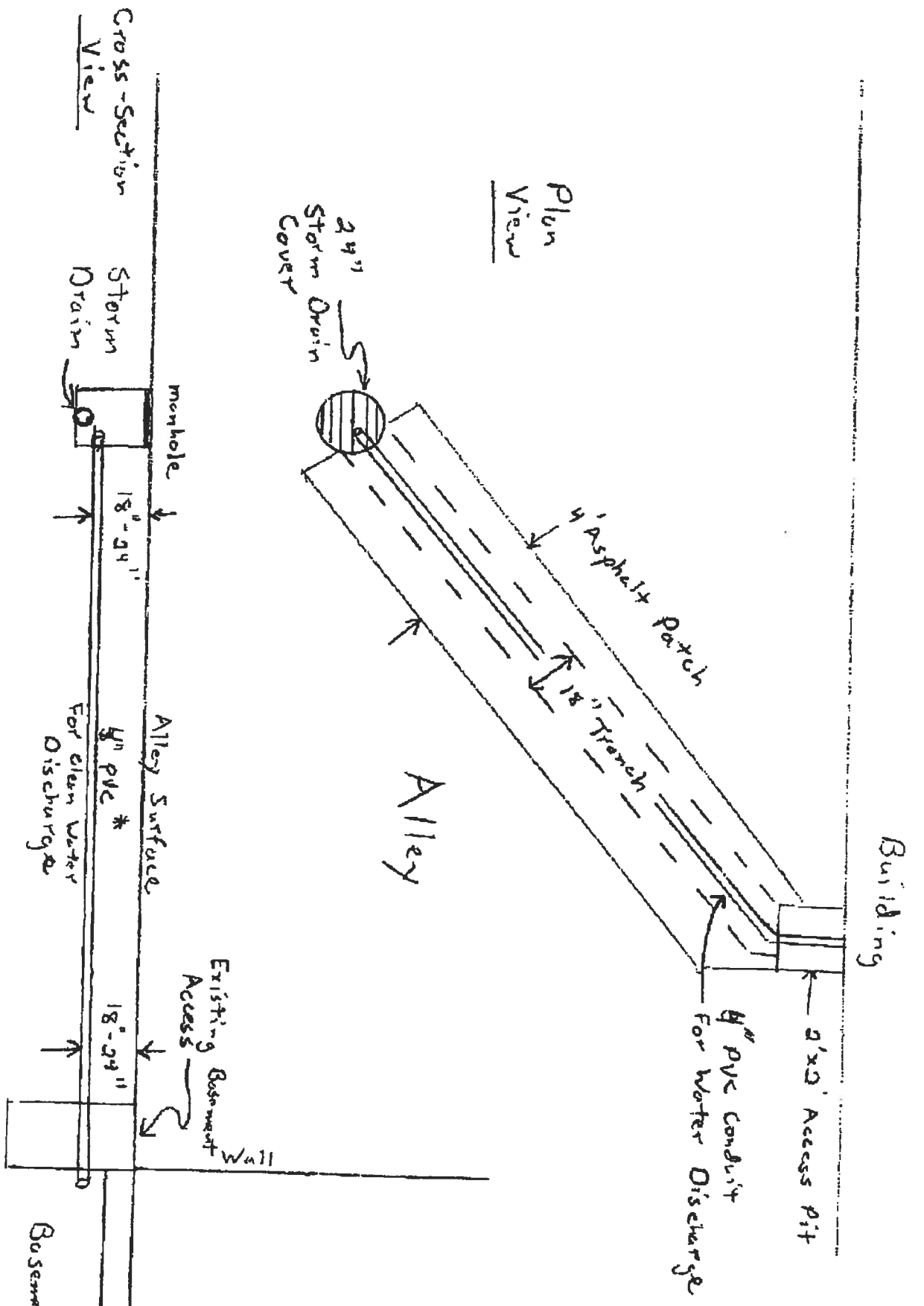


4 EROSION AND SEDIMENT CONTROL PLAN



EXHIBIT "A"

Bq TRANSFER No. 76971



* Note: Depth of 4" piping will depend on Existing Utilities to Cross Between Storm Drain Inlet and Basement

Probably Won't Exceed 10" to 12"

B.10 TRANSFER No. 76971

Buffington, Denise

From: Buffington, Denise
Sent: Thursday, July 14, 2011 10:14 AM
To: Rex Barrie, WD-63
Subject: Comment Letter for 63-33245 & Trasnfer 76971
Attachments: Comment Letter to WD 63.Doc; 63-33245 APP.pdf; X-fer 76971 APP.pdf

Attached is a cover letter and a copy of an Application(s), for your review &/or comment. If you have any questions regarding the attached information, please do not hesitate to contact our office.

Thank you in advance,

*Denise Buffington
Administrative Assistant I
Dept of Water Resources
Western Region
(208) 334-2190*

July 14, 2011

REX BARRIE
WATER DISTRICT #63
PO BOX 767
10769 W STATE ST
STAR, ID 83669-0767

RE: Application for Permit: 63-33245

RE: Transfer No. 76971
Water Right No(s). 63-12342

Dear Mr. Barrie:

A copy of the above referenced application is enclosed. Please review the application, then complete the enclosed recommendation form and return it to this office within 21 days of the date of this letter.

If the application is approved, IDWR will include appropriate standard conditions of approval for a water right located within a water district, such as regulation by the watermaster, lockable controlling works, and/or measuring devices. Any special conditions or other concerns you have related to this application should be specifically addressed in your recommendation.

IDWR's regional offices can finish reviewing an unprotested application as soon as the protest period has past. Your prompt response to this request will ensure that your recommendation can be considered. If IDWR has not received your written recommendation within 21 days from the date of this letter, IDWR will presume that you do not oppose approval of the application and that you have no comments for IDWR to consider.

Sincerely,

Denise Buffington
Administrative Assistant

Enclosure(s)

Buffington, Denise

From: Buffington, Denise
Sent: Wednesday, July 13, 2011 3:00 PM
To: Idaho Statesman
Subject: LEGAL NOTICE
Attachments: Ada County - Cover Letter.Doc; Ada County Ads - COMBINED.Doc

Attached please find one (1) legal notice being submitted for publication. We are still experiencing some technical problems with our Legal Notice database, so please feel free to let me know if you have any problems regarding the formatting, etc. of the attached documents.

Also, please contact me if you have any other questions, or if you are not able to publish the ad on the dates requested.

Thank you in advance,

*Denise Buffington
Administrative Assistant I
Dept of Water Resources
Western Region
(208) 334-2190*

July 13, 2011

LEGAL NOTICE DEPARTMENT

IDAHO STATESMAN
PO BOX 40
BOISE, ID 83707

RE: Application For Permit No(s): 61-12256, 63-33245 & 63-33531

RE: Transfer No. 73834
Water Right No(s). 61-7263, 61-7264A, 61-7264B

RE: Transfer No. 76971
Water Right No(s). 63-12342

Dear Legal Notice Department:

Please publish the enclosed legal notice on the dates indicated (once a week for two consecutive weekly issues). If you cannot publish the notice on the proposed dates, please contact us immediately.

An affidavit of publication must be submitted to the Department along with the publication bill. Please send the affidavit and bill to this office before August 8, 2011. Your cooperation is appreciated.

Sincerely,

Denise Buffington
Administrative Assistant

The following application(s) have been filed to appropriate the public waters of the State of Idaho:

63-33531

ROBERT J FICK
JOYCEANNE VOGEL FICK
3232 W KUNA MORA RD
KUNA, ID 83634-1753
Point of Diversion SESE S33 T02N R01W ADA County Source GROUNDWATER
Use: IRRIGATION 03/01 to 11/15 0.7 CFS
Use: DOMESTIC 01/01 to 12/31 0.04 CFS
Use: STOCKWATER 01/01 to 12/31 0.02 CFS
Total Diversion: 0.76 CFS
Date Filed: 6/13/2011
Place Of Use: IRRIGATION, DOMESTIC & STOCKWATER
T02N R01W S33 SESE
Total Acres: 35
Water bearing zone to be appropriated from an existing well is from 240 to 319 feet.

63-33245

PARKLANE COMPANY, INC.
817 W FRANKLIN ST
BOISE, ID 83702
Point of Diversion NWNE S10 T03N R02E ADA County Source GROUNDWATER
Point of Diversion NWNE S10 T03N R02E ADA County Source GROUNDWATER
Use: HEATING 01/01 to 12/31 0.41 CFS
Use: COOLING 01/01 to 12/31 0.15 CFS
Total Diversion: 0.41 CFS
Date Filed: 3/23/2009
Place Of Use: HEATING AND COOLING
T03N R02E S10 NWNE
Water bearing zone to be appropriated is from 79 to 195 feet. Water diverted to be discharged to the Boise River.

61-12256

INTERMOUNTAIN SEWER & WATER CORP.
PO BOX 344
MERIDIAN, ID 83680
Point of Diversion SENE S34 T01N R04E ELMORE County Source GROUNDWATER
Point of Diversion SWNW S34 T01N R04E ELMORE County Source GROUNDWATER
Point of Diversion SENW S34 T01N R04E ELMORE County Source GROUNDWATER
Point of Diversion SESW S34 T01N R04E ELMORE County Source GROUNDWATER
Point of Diversion NWNW S35 T01N R04E ELMORE County Source GROUNDWATER
Point of Diversion NESW S35 T01N R04E ELMORE County Source GROUNDWATER
Use: MUNICIPAL 01/01 to 12/31 13.76 CFS
Total Diversion: 13.76 CFS
Date Filed: 1/17/2008
Place Of Use: MUNICIPAL
T01N R04E S28, 29, 32, 33, 34, 35
Proposes expansion of Mayfield Springs Planned Community, about 4200 residences, associated irrigation, businesses etc.
About the same service area that was approved for first part of the project under 63-32225 (10 cfs for Ada County wells).
Expansion includes up to 6 wells with 300-1200 ft. water bearing zone. Proposed wells will be in Elmore County. Site straddles
Ada-Elmore County line east of Indian Creek Reservoir about 3 miles N/NW of I84 & Simco Road intersection. Published in the Mountain
Home News on July 20th & 27th, 2011; and the Idaho Statesman, Times News, Lewiston Tribune and Post Register on July 21st & 28th, 2011

PROPOSED CHANGE OF WATER RIGHTS

Orchard Ranch LLC of PO Box 1260, Maricopa AZ 85139 filed Application No. 73834 to transfer 3 water rights with 1976 priority dates from ground water totaling 11.36 cfs authorized for 631 acres of irrigation plus a dairy. The purpose of the transfer is to retire current Elmore County use and relocate it to Ada County. The current site is about 5 miles southeast of Cinder Cone Butte and 3 miles east of Simco Road. The proposed site is near Orchard about 10 miles northwest of Cinder Cone Butte. The new site will have 4 wells to irrigate 631 acres in a 2752 acre permissible place of use (PPU). The PPU is combined with Application 63-32703 (different wells) that was previously advertised. Current and proposed locations are south of I84. Published in the Mountain Home News on July 20th & 27th, 2011; and the Idaho Statesman, Times News, Lewiston Tribune and Post Register on July 21st & 28th, 2011

PROPOSED CHANGE OF WATER RIGHT(S)

Parklane Company Inc of 817 W Franklin St. Boise, ID 83702 filed Application No. 76971 to transfer one water right with a 1996 priority date from ground water totaling 0.26 cfs. The purpose of the transfer is to add an existing well as an alternate point of diversion and authorize discharge of diverted water to the Boise River instead of an injection well. Water will be used at the current place of use at the Union Block Building in downtown Boise at 730 W Idaho St on the north side of Idaho St between 8th St and Capitol Blvd.

For a full description of the rights &/or proposed transfers, please see www.idwr.idaho.gov/apps/ExtSearch/WRFiling.asp. Protests may be submitted based on the criteria of Sec 42-222 and 42-203A, Idaho Code. Permits will be subject to all prior water rights. Any protest against the approval of this application(s) must be filed with the Director, Dept. of Water Resources, Western Region, 2735 Airport Way, Boise, ID 83705 together with a protest fee of \$25.00 for each application on or before August 8, 2011. The protestant must also send a copy of the protest to the applicant.

GARY SPACKMAN, Interim Director
Published on 7/21 & 7/28/2011



APR 15 2011

WATER RESOURCES
WESTERN REGION

April 13, 2011

Angela Grimm, P.G.
IDWR Western Region Office
2735 Airport Way
Boise, ID 83705

Subject: Additional Information for Application No. 63-33245 and Transfer No. 76971

Dear Angie:

On behalf of Parklane Company, Inc., this letter provides additional information requested in your letter dated April 1, 2011. This additional information supports application for Transfer No. 76971 proposing use of a former injection well as a second production well for water right 65-12342 currently authorized for cooling the Union Block building and Application No. 63-33245 proposing appropriation of additional ground water from the same two wells for heating and cooling the Union Block building.

Effect on Existing Water Rights

Well and Water Right Locations. SPF Water Engineering searched for well diversions using Idaho Department of Water Resources (IDWR) online databases for well construction and water rights. All water rights and well logs within a 2,000-foot radius of the proposed well sites were evaluated. A total of 19 water rights and 37 well logs were found within the subject area.

As described in Table 1 and shown on a topographical map, both included in Attachment A, eleven active water right diversions and eight non-active water right diversions (not claimed in SRBA) were identified within a 2,000-foot radius. Nine of the sixteen water right diversions, including the two proposed (existing) well sites, are located on property owned by the applicant.

As described in Table 2 and shown on a topographical map, both included in Attachment B, thirty-seven well log reports were identified within a 2,000 foot radius. If identification was possible, associated well log reports and water rights were matched in Tables 1 and 2. Seven of the 37 well log reports describe wells constructed on property owned by the applicant.

Well logs for the proposed wells indicate the original production well is 90 foot deep with a production zone between 79 to 89 feet and a former injection well is 195 feet deep with a production zone between 150 to 195 feet. Four of the 37 wells highlighted in Table 2 divert from production zones much deeper than the proposed wells and were not considered subject to injury.

Sufficiency of Water Supply

Injury to existing water rights is not anticipated because (1) the aquifer is productive and (2) area water levels are not declining.

Anticipated worst-case drawdown associated with the proposed diversions was calculated in a memo attached to our letter dated January 5, 2011. That analysis indicated that under continuous pumping for 154 days at the system capacity of 184 gpm, calculated drawdowns were 13 and 10 feet at radii of 1000 and 2000 feet. Actual drawdown should be substantially less because (1) effective aquifer transmissivity is likely greater than the 10,000 gpd/ft value used in the calculations, and (2) we do not anticipate continuous pumping for 154 days at the maximum diversion rate. Drawdowns of less than 15 feet should not result in injury to other water rights. As a result, we do not anticipate that other water rights will be injured by the proposed diversions.

The table below is water-level monitoring data from SPF files for a Boise Parks and Recreation Department irrigation well located at the park in front of the Capitol building. This well is approximately 1 to 2 blocks northeast of proposed wells. The total depth of the well is 90 feet. The aquifer water level has remained fairly stable since 1975 with static water level in the well typically fluctuating only 1 to 2 feet.

Capitol Park Irrigation Well	
Date	Static Depth to Water (feet)
Jul-75	32
8/3/1994	26.6
9/14/1995	33.5
8/7/1996	39
10/1/1997	32.5
10/9/1998	31.5
10/12/1999	30.5
9/2/2000	33
9/15/2001	31
8/31/2002	35
10/1/2003	34.5
9/17/2004	33
9/14/2005	33.92
9/21/2006	32'
8/28/2007	32
9/25/2008	33
8/26/2009	33.5
7/28/2010	33.42

Future monitoring of the Capitol Park Irrigation Well can be used to demonstrate that excessive drawdown of the aquifer is not occurring.

Although injury is not anticipated as a result of the proposals, any potentially affected party will have the opportunity to protest the proposals.

Thanks Angie. Please contact us with any questions.

Sincerely,



Lori Graves
Water Right Specialist



Terry M. Scanlan, P.E., P.G.
Principal Engineer/Hydrogeologist

cc: Ken Howell, Parklane Company, Inc.
Doug Bolen, Parklane Management Company

Attachments

Attachment A Radii Water Right Diversions
Attachment B Radii Recorded Wells
Attachment C Well Logs for Proposed Wells

ATTACHMENT A
WATER RIGHT DIVERSIONS

Table 1: Water Right Diversions within a 2000 Foot Radius									
Map No.	Water Right	Priority Date	Decreed Date	Source	cfs	afa	Owner	Use	Drilling Permit No.
1	63-2785	10/19/1949	2/16/2007	GROUND WATER	0.58	264.6	THE HARDY FOUNDATION INC	Cooling	
2	63-3024	2/16/1955	2/16/2007	GROUND WATER	0.67	485.1	WEST ONE BANK IDAHO NA	Cooling	853076
3	63-25321	4/29/1957	2/16/2007	GROUND WATER	0.60	256.4	STATE OF IDAHO	Cooling	
4	63-7168	12/21/1968	2/16/2007	GROUND WATER	0.03	4.5	STATE OF IDAHO	Irrigation	
5	63-10222	4/3/1985	2/16/2007	GROUND WATER	0.12	12.2	ALASKA CENTER LTD PARTNERSHIP	Cooling	
6	63-9341	2/6/1980	10/5/2007	GROUND WATER	2.19	680.1	STATE OF IDAHO	Heating	844017
7	63-3413	10/30/1964	2/6/2009	GROUND WATER	2.89	0.0	CITY OF BOISE	Municipal	814854
8	63-7728	2/20/1973	4/3/2009	GROUND WATER	0.15	0.0	CITY OF BOISE	Municipal	
9									722956
	63-10773	3/8/1989	n/a	GROUND WATER	0.37	37.9	W E PIERCE BUILDING ASSOC	Cooling	723175
10	63-11993	2/12/1993	n/a	GROUND WATER	0.17	17.1	PARKLANE CO	Heating	727160
11									729977
									729978
									847303
									733564
	63-12342	6/19/1996	n/a	GROUND WATER	0.26	125.0	PARKLANE CO	Cooling	
12	63-2862	5/21/1951	not claimed	GROUND WATER	0.22	0.0	J R MENDENHALL	Cooling	
13	63-3038	4/8/1955	not claimed	GROUND WATER	0.50	0.0	FIRST SECURITY BANK OF IDAHO NA	Industrial	
14	63-2924	1/14/1953	not claimed	GROUND WATER	0.50	0.0	BROADBENT EST INC	Cooling	
15	63-2582	2/6/1939	not claimed	GROUND WATER	0.50	183.0	OWYHEE HOTEL CO	Commercial	
16	63-2674	12/19/1947	not claimed	GROUND WATER	0.15	0.0	JOHN ALDAPE	Cooling	
17	63-2774	7/14/1949	not claimed	GROUND WATER	0.05	0.0	WALTER DUFRESNE	Domestic	
18									791558
	63-7791	5/8/1973	not claimed	GROUND WATER	0.34	89.4	PROVIDENT FEDERAL SAVINGS & LOAN ASSN	Industrial	819206
19	63-2579	6/21/1938	not claimed	GROUND WATER	0.22	0.0	J O JORDAN	Cooling	

ATTACHMENT B
RECORDED WELL REPORTS

Table 2: Recorded Wells within a 2000 Foot Radius

Map No.	Contact	Associated Water Right	Use	TWP	RNG	SEC	Tract	Well Address	GPM	Static	Total Depth	Casing Depth	DIA.	Const. Date	Permit No.	Tag No.
1	MEADOW GOLD DAIRY		Industrial	03N	02E	3	SESW	805 WEST FRANKLIN ST SW CORNER 9TH &	0	20	340	69	8	6/19/1967	791734	
2	PARKLANE CO		Irrigation	03N	02E				80	35	79	69	8	8/26/1993	726531	
3	SHIRLEY, D E		Domestic	03N	02E	3	SWSE	STATE ST7	25	8	33		4	10/25/1967	808221	
4	THE CARNEGIE CO		Domestic	03N	02E	3	SWSE	815 W WASHINGTON	39	28	79	68	6	4/17/1995	729246	
5	PARKLANE CO	63-11993	Injection	03N	02E	3	SWSE	805 W FRANKLIN ST	80	35	79	69	6	8/27/1993	727160	
6	YOUNG, LLOYD		Domestic	03N	02E	3	SESE		150	4	153			5/30/1961	820637	
7	CITY OF BOISE		Irrigation	03N	02E	3	SESE		155	25	80			7/18/1969	819323	
8	FEDERAL BLDG		Air Conditioning	03N	02E	3	SESE		0	35	150			1/6/1968	856517	
9	RALPH DAVIS STORE		Air Conditioning	03N	02E	10	NENE		0	26	56					
10	STATE OF IDAHO	63-9341	Geothermal	03N	02E	10	NENE	WELL 2 CAPITAL HALL	0	0	3030			9/4/1991	844017	
11	K CO/COMMUNITY CONTRACTING		Commercial	03N	02E	10	NWNE	202 N 9TH ST	200	30	115	85	10	10/11/1997	731027	D0000161
12	W E PIERCE BUILDING ASSOC	63-10773	Cooling	03N	02E	10	NWNE		185	27	60	50	8	1/23/1990	723175	
13	CITY OF BOISE	63-3413	Domestic	03N	02E	10	NWNE		150	9999	125			11/16/1964	814854	
14	STATE OF IDAHO		Domestic-Multiple	03N	02E	10	NWNE		300	6	1075			3/31/1962	771877	
15	PARKLANE CO (production well)	63-12342	Industrial	03N	02E	10	NWNE	710-720 WEST IDAHO	100	30	90	79	6	7/31/1996	729977	
16	PARKLANE CO	63-12342	Injection	03N	02E	10	NWNE	710-720 WEST IDAHO	0	30	63	63	6	8/7/1997	729978	
17	PARKLANE CO (deepened)		Injection	03N	02E	10	NWNE	710-720 W IDAHO	180	30	195	196	6	6/27/2007	847303	D0047061
19	W E PIERCE BUILDING ASSOC	63-12342	Injection	03N	02E	10	NWNE	STREET	180	30	195	196	6	9/6/1999	733564	D0012150
20	BELCHER BUILDING	63-10773	Air Conditioning	03N	02E	10	NWNE		0	0	0			7/27/1968	853220	
21	PARL LN UNION BLK BLDG		Injection	03N	02E	10	NWNE	710-720 W IDAHO ST	30	17	248			8/7/1996	854482	
22	IDAHO FIRST NATIONAL BANK		Domestic	03N	02E	10	SWNE	101 CAPITOL BLVD	9999	9999	83			10/19/1976	791551	
23	PARKSIDE INVESTMENTS		Heating	03N	02E	10	SWNE		30	14	52	52	10	9/15/1984	722102	
24	LAMM, CATHERN		Other	03N	02E	10	SWNE	317 W MAIN ST		15	47		12	12/8/2007	849784	
25	LAMM, CATHERN		Cooling	03N	02E	10	SENE	317 W MAIN ST		15	190			7/31/1967	852475	
26	STATE OF IDAHO		Cooling	03N	02E	10	SENE		380	22	195			10/22/1983	773741	
27	SKOV, CARROLLE		Domestic	03N	02E	10	SENE		0	25	60					
28	PARKLANE CO	63-12593	Closed Loop Heat Pump	03N	02E	10	NENW	928 W MAIN	300	15	288	-163	12	11/29/2000	765186	D0001000
29	PROVIDENT FEDERAL SAVINGS & LOAN ASSN	63-7791	Industrial	03N	02E	10	NENW		230	29	300			6/22/1973	791558	
30	K CO/COMMUNITY CONTRACTING							202 NORTH 9TH ST, MARY MCCARTY BUILDING								
31	PARKLANE CO	63-12593	Injection	03N	02E	10	NENW	928 W MAIN ST	300	30	110	110	8	10/23/1997	731028	D0000162
32	IDAHO FIRST NATIONAL BANK	63-3024	Air Conditioning	03N	02E	10	NENW	10th & IDAHO	600	21	514	106	6	12/2/2000	765189	D0020067
33	PROVIDENT FEDERAL SAVINGS & LOAN ASSN	63-7791	Air Conditioning	03N	02E	10	NENW		100	11	62			5/22/1970	853076	
34	GOFF, ROBERT GOFF, JEAN		Domestic	03N	02E	10	NWNV	1100 W FRONT ST		17	25		6	9/18/1963	819206	
35	SHIPPY, ROBERT T		Domestic	03N	02E	10	NWNV	1100 W FRONT ST		17	25		6	9/12/2010	859566	D0059052
36	IDAHO LAUNDRY & DRY CLEANERS		Commercial	03N	02E	10	SENV		0	99	630		2	9/7/2010	859226	D0059051
37	DRAKE PLUMBING		Irrigation	03N	02E	10	SENV		100	15	140			11/19/1966	797684	
														4/5/1973	791556	

Highlighted wells outside applicant's production zones

ATTACHMENT C

WELL REPORTS FOR PROPOSED WELLS

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

Use Typewriter or Ballpoint Pen

68152

Office Use Only

Inspected by _____

Twp____ Rge____ Sec____

1/4 1/4 1/4

Lat: : : Long: : :

1. DRILLING PERMIT NO. 63-96-C-0397-000
Other IDWR No. 63-W-137-001

2. OWNER:
Name PARK LN Union Blk Bld.
Address 710 ~~W~~ W. IDAHO ST.
City BOISE State ID Zip 83702

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N
 W E S
 Twp. 3 North ☒ or South ☐
 Rge. 2 East ☒ or West ☐
 Sec. 10 NW 1/4 NE 1/4 1/4
 Gov't Lot _____ County ADA 10 acres 40 acres 160 acres
 Lat. : : Long. : :
 Address of Well Site 710-720 W.
Id. St. City BUISE
 (Give at least name of road + Distance to Road or Landmark)
 Lt. 43 Blk. _____ Sub. Name _____

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☒ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Bentonite	5	16	250	POUNDER BAGS

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 25
Was drive shoe seal tested? ☐ Y ☒ N How?

8. CASING/LINER:

Diameter	From	To	Gage	Material	Casing	Liner	Welded	Threaded
6"	41	25	1/4	Steel	☒	☐	☒	☐
5"	23	63	1/4	Steel	☐	☒	☒	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☒ Perforations Method _____

☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
~~13~~						☐	☐
21	63	1/8"			Steel	☐	☒
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

30 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or
control devices: N/A

11. WELL TESTS:

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<del> </del>	<del> </del>	<del> </del>	<del> </del>

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

[illegible]

Department of Water Resources

Completed Depth 63 (Measurable)
Date: Started 8-1-96 Completed 8-7-96

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name Phipps Drilling Firm No. 311

Firm Official Walter C. [Signature] Date 8-21-97

and _____ Date 5-14-77

Supervisor or Operator Same Date _____

(Sign once if Firm Official & Operator)

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63

Form 238-7
6/02

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

847303

Office Use Only		
Well ID No.	294315	
Inspected by		
Twp	Rge	Sec
1/4	1/4	1/4
Lat:	:	Long:

1. WELL TAG NO. D 0047061
DRILLING PERMIT NO. 900427-847303
Water Right or Injection Well No. 63-W-137-001

2. OWNER:
Name Ken Howell (Park Lane)
Address 817 W. Franklin
City Boise State ID Zip 83702

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 3 North ☒ or South ☐
Rge. 2 East ☒ or West ☐
Sec. 10 NW 1/4 NE 1/4 1/4
Gov't Lot _____ County _____

Lat: _____ Long: _____
Address of Well Site 710-720 W. Idaho St
City Boise

(Give at least name of road - Distance to Road or landmark)

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☒ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)

☐ New Well ☒ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
N/A				

Was drive shoe used? ☒ Shoe Depth(s) 179

Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	72	149	250	Steel	☒	☐	☐	☐
5	145	150	258	St	☐	☒	☐	☐
5	195	196	258	St	☐	☒	☐	☐

Length of Headpipe 5 Length of Tailpipe 1'6"

Packer ☒ Y ☐ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____

Screen Type & Method of Installation Johnson - Pull Back

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
185	195	020		5	S.S	☐	☐
167	183	020		5	S.S	☐	☐
150	165	025		5	S.S	☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

30 ft. below ground Artesian pressure _____ lb.

Depth flow encountered _____ ft. Describe access port or control devices: _____

Welder Flange ON Casing

12. WELL TESTS:

☒ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
180		130	2

Water Temp. 64 Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water	Y	N
6	115	120	SAND Clay streaks		☒	
	120	130	Fine SAND		☒	
	130	140	Cemented SAND		☒	
	140	175	C. SAND		☒	
	175	185	Blue SAND		☒	
	185	195	Blue Clay - SAND streaks		☒	

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JUL 12 2007

WATER RESOURCES
WESTERN REGION

Completed Depth 195 (Measurable)

Date: Started 6-6-07 Completed 6-22-07

14. DRILLER'S CERTIFICATION

I/we certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name DPWD Firm No. 332

Principal Driller Don L. [Signature] Date 6-29-07

and Driller or Operator II _____ Date _____

Operator I _____ Date _____

Principal Driller and Rig Operator Required.
Operator I must have signature of Driller/Operator II.

FORWARD WHITE COPY TO WATER RESOURCES



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: www.idwr.idaho.gov

April 1, 2011

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

Parklane Company, Inc.
c/o SPF Water Engineering, LLC
Attn: Lori Graves
300 E. Mallard, Ste 350
Boise, ID 83706

COPY

Re: Application for Permit 63-33245 and Transfer 76971 of WR 63-12342

Dear Lori:

As you are aware, your client's application for permit 63-33245 regarding ground water for heating and cooling is being processed along with the application for transfer 76971 to add a point of diversion to right 63-12342. Thank you for your response to my previous letter of December 23, 2010 requesting additional information. To assist this office in further processing of these applications, please submit additional information to help clarify and/or complete information previously provided regarding the proposed water use and water supply considerations:

- Information was submitted demonstrating the probable radius of impact for diversion associated with the applicant's heating and cooling system per my request. However, the information did not include an analysis demonstrating how injury to existing shallow ground water rights will be avoided within the probable radius of impact. The transfer application proposes to cease reinjection of the cooling system's discharge water into the shallow aquifer. This may cause a reduction in the quantity of water available to other shallow ground water rights (both senior and junior) nearby. The permit application proposes additional diversion (new use, higher rate, and longer season of use if not additional volume) beyond that currently authorized under right 63-12342. Please submit information indicating how injury to shallow ground water rights will be avoided should the proposed applications be approved.

Please submit the requested information to allow for further evaluation of your client's applications. You may seek additional time to provide the information by making a written request to interrupt processing for up to six months. Your response or a request for more time must be received within the next sixty (60) days. The permit application will be voided and transfer application rejected without a timely written reply.

Please contact me at 208-334-2190 if you have any questions about the information requested or need more information. Thank you for your attention to these matters.

Sincerely,

Angela M. Grimm, P.G.
Water Resource Agent, Sr.

Grimm, Angie

From: Lori Graves [LGraves@spfwater.com]
Sent: Friday, January 14, 2011 8:57 AM
To: Grimm, Angie
Cc: Doug Bolen; kghowell@parklaneco.com
Subject: Additional Information (Union Block Bldg)
Attachments: ACHD Phot Map & Kevin's E-mail.pdf

Angie,

In response to your question regarding river depletion, attached is a photo map from ACHD indicating where the Union Block's discharged water will enter the Boise River and an email from Kevin Boggs explaining that this location is approximately the same location he used in his radius impact analysis submitted January 5, 2011. Consequently, the conclusions made in that analysis apply. Please let me know if you have any further questions Angie.

Lori Graves
Water Rights Specialist
300 E. Mallard, Ste 350
Boise, ID 83706
208.383.4140 x219
fax 208.383.4156
e-mail lgraves@spfwater.com
www.spfwater.com



Rebecca W. Arnold, President
John S. Franden, Vice President
Carol A. McKee, Commissioner
Sara M. Baker, Commissioner
David L. Case, Commissioner

January 11, 2011

Ms. Lori Graves
SPF Water Engineering, LLC
300 E. Mallard Drive, Suite 350
Boise, ID 83706

Re: Public Records Request

Dear Ms. Graves:

Ada County Highway District is in receipt of your public records request dated January 4, 2011. Please find enclosed the public record(s) requested.

Thank you for your inquiry.

Very truly yours,

ADA COUNTY HIGHWAY DISTRICT

Ruth G. Miller
Legal Administrative Assistant

Enclosure(s)

c: Legal, Central Files

S:\Public Records Requests\2011\Ltr 2 GravesL.Doc



Stormwater Pipe Route
 Union Block Building to 9th
 Street Outfall

achdgis.GDBADMIN.pipes
 IRRIGATION
 STORM
 SEEPAGE BEDPIT

ACHDGIS.GDBADMIN.structures
 Irrigation Box
 Infiltration Manhole
 Drop Inlet
 SD Manhole
 ACHD Direct Outfalls
 Sediment Bay/S&G
 Siphon Drain

0 160 320 Feet

ACHD
 Stormwater
 1/2011

Lori Graves

From: Kevin Boggs
Sent: Thursday, January 13, 2011 10:40 AM
To: Lori Graves
Subject: (722.0010) Union Block Radius of Impact Clarification

Hi Lori,

I should have clarified this in the memo I provided you, but the distance I stated in the memo (from the well to the Boise River, stated in the memo on page 4, 2nd paragraph under Section D, Discussion and Conclusions) is 3,114 feet. This is the distance between the well and the River at the Capital bridge (north side of the river). Based on the map you provided showing where the ACHD storm drain discharges to the Boise River, the Capital Street bridge is very close (appears to be within 10 to 20 feet east) of the ACHD storm drain discharge location. Therefore, the ACHD storm drain is nearly the same distance away from the well as the distance between the well and the river as it was originally stated in the memo (3,114 feet away from the well).

Please let me know if this clarifies things.

Kevin

Kevin Boggs, PG
SPF Water Engineering, LLC
300 East Mallard Drive, Suite 350
Boise, ID 83706
Office: 208-489-2140
Cell: 208-340-1753
kboggs@spfwater.com

1/14/2011



January 5, 2011

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JAN 06 2011

WATER RESOURCES
WESTERN REGION

Angela Grimm
IDWR Western Region Office
2735 Airport Way
Boise, ID 83705

Subject: Additional Information for Application for Permit 63-33245 and Transfer 76971

Dear Angie,

On behalf of Parklane Company, Inc., this letter and attached memo provides additional information requested in your letter dated December 23, 2010. This information supports application for permit 63-33245 proposing additional ground water diversion for heating and cooling and application for transfer 76971 proposing adding a point of diversion to right 63-12342.

- Project Radius of Impact. See the attached memo from Kevin Boggs, Hydrogeologist with SPF Water Engineering, for full analysis of this consideration.
- Intended Volume for Application for Permit 63-33245. The amount of volume licensed to associated water right 63-12342 is sufficient for annual operation of the Union Block building's heating and cooling system. Applicant is not seeking an additional increment of volume for cooling use.
- Proposed Heating Flow Rate for Application for Permit 63-33245. The proposed rate of flow for heating use is reasonable to provide for the new beneficial use based on the following information provided by Kartchner Engineering, who originally designed and installed the heating and cooling system: "The plate heat exchanger is rated at 132.6 tons at 200 gpm and a maximum 16 degrees F temperature increase (i.e., 64 degree inlet, 79.9 degree outlet). Proportioning this flow rate to the connected equipment load results in a water requirement of 184 gpm when the connected equipment is operating at system capacity."
- Property Ownership. Attached is an explanation letter provided by Kenneth Howell, President of Parklane Company, Inc. Mr. Howell is also manager and majority owner of Union Block Associates, LLC, owner of the property.

January 5, 2011

Please let me know if you have any further questions Angie. Thank you.

Sincerely,



Lori Graves
Water Rights Specialist

Cc: Doug Bolen, Parklane Co.
Kenneth Howell, Parklane Co.

Enclosures: Memo from Kevin Boggs
Letter from Kenneth Howell

JAN 06 2011

WATER RESOURCES
WESTERN REGION

MEMORANDUM

DATE: January 3, 2011

TO: Lori Graves

FROM: Kevin Boggs

CC: Terry Scanlan

RE: Radius of impact associated with diversion under right 63-12342 and permit application 63-33245

A. Purpose

The Idaho Department of Water Resources (IDWR) requested information associated with application for permit 63-33245 along with application for transfer 76971 to add a point of diversion to right 63-12342. Specifically, IDWR requested the following:

1. A determination of the radius of impact associated with diversion under right 63-12342 and permit application 63-33245, including a credible explanation for the determination.
2. A demonstration of how injury to existing water rights will be avoided within the probable radius of impact based on the proposal to return water pumped from shallow groundwater directly to the Boise River rather than injection into the shallow groundwater production zone.

This memorandum summarizes the approach to developing responses to the IDWR requests. A discussion of the results is also provided.

B. Approach

The approach to determining the radius of influence is based on the non-equilibrium well equation (Theis, 1935). The use of this approach requires user-defined inputs, including aquifer properties and diversion rate(s).

Production Zone

There are two existing wells on site. The well currently used for diversion is 90 feet deep, with screen placed from 79 to 89 feet below ground surface (bgs). The well that has been used for injection was originally 63 feet bgs, with perforations from 21 to 63 feet bgs. The injection well was subsequently deepened to 115 feet bgs in 1999 and to 195

feet bgs in 2007. The injection well is currently cased to 149 feet bgs with screen from 150 to 195 feet bgs (see Attachment A for Well Driller's Reports). Based on these data, the wells are currently capable of producing water from 79 to 195 feet bgs.

Aquifer Properties

A pumping test of a well completed in an aquifer zone between 120 to 170 feet bgs was conducted in 2002 using a test well for the Idaho Water Center (Scanlan Engineering, 2002). The test was conducted for approximately 12 hours at a rate of 105 gallons per minute (gpm). Drawdown at the end of the test was 30.28 feet, resulting in a specific capacity of 3.5 gpm/ft. Analysis of test data indicates that the aquifer zone tapped by the test well has a near-well specific capacity of approximately 20,000 gpd/ft. During the test, water levels stabilized after 2.5 hours of pumping, suggesting that overlying or underlying water-bearing zones may have contributed flow to the tested aquifer interval. The specific capacity of the test well is lower than that suggested by the transmissivity calculated from the test pump data. Given the 20,000 gpd/ft transmissivity value, the specific capacity of the well should have been closer to 10 gpm/ft, suggesting the calculated transmissivity may be too large.

The only available pumping and associated drawdown data for the project wells is on the well driller's reports. The well screened from 79 to 89 feet bgs had a specific capacity of 2.5 gpm/ft at a flow rate of 100 gpm. The injection well (screened from 150 to 195 feet bgs) had a specific capacity of 1.8 gpm/ft at a flow rate of 180 gpm. The combined specific capacity from these two zones (4.3 gpm/ft) suggests transmissivity of the aquifer is likely similar to the transmissivity in the zone tested by the Idaho Water Center well.

Given the available aquifer property data, two transmissivity values (10,000 to 20,000 gpd/ft) were used in the non-equilibrium well equation utilized to determine the radius of impact.

The aquifer storativity was assumed to be 0.001. This storativity is typical of a semi-confined aquifer, and should be representative of the aquifer interval tapped by the Union Block wells. A fully-confined aquifer (i.e., lower storativity) would have a larger radius of influence, but little or no impact on river flows. An unconfined aquifer (i.e., higher storativity) would have a smaller radius of influence, but more direct depletion to river flow.

Diversion Rates

Water right permit 63-12342 authorizes a total annual diversion volume of 125 acre feet (af). Application 63-33245 seeks additional diversion rate (up to a combined total rate of 0.41 cfs), but not additional diversion volume. Application 63-33245 is both for year-round cooling and heating use. For purposes of this analysis, we have assumed that 0.41 cfs (184 gpm) would be pumped from the wells (total combined rate) for 154 days, the duration required to reach the permitted volumetric limit of 125 af per year. This is a worst case scenario in terms of the impact to the aquifer system (i.e., this scenario would

cause more aquifer drawdown than the actual planned pumping scenario that is based on actual system demand).

Theis Non-Equilibrium Well Equation

The non-equilibrium well equation (Theis, 1935) was used to determine the radius of impact for the project. Assumptions inherent to this approach are that the aquifer is homogeneous and isotropic, uniform in thickness and areal extent, the aquifer receives no recharge, the pumping well penetrates the full aquifer thickness, water removed by discharge is removed instantaneously, the pumping well is 100 percent efficient, laminar flow exists throughout the aquifer, and that the water table or potentiometric surface has no slope. These assumptions are rarely completely satisfied under field conditions, but this method often provides an indication of the radius of influence associated with pumping. These assumptions are generally conservative in nature (that is, they tend to increase the magnitude of drawdown compared to field conditions).

C. Results

Two scenarios were evaluated to account for the range of assumed transmissivity values (10,000 and 20,000 gpd/ft). Theoretical drawdown at various distances from the pumping well(s) for each scenario is provided in Table 1.

Table 1. Radius of Impact (Scenario 1: T = 10,000 gpd/ft, S = 0.001;
Scenario 2: T = 20,000 gpd/ft, S = 0.001)

	Scenario 1	Scenario 2
Distance from Pumping Wells	Drawdown (ft)	
100	22.7	12.1
300	18.0	9.7
600	15.1	8.3
1000	12.9	7.2
1500	11.2	6.3
2000	10.0	5.7
5280	6.0	3.7

Drawdown associated with pumping 0.41 cfs (184 gpm) for 154 days at various distances from the pumping well(s) is illustrated in Figure 1. The non-equilibrium well equation suggests drawdown associated with this worst case pumping scenario could be 6.0 feet at a distance of one mile from the pumping well(s) under Scenario 1, and 3.7 feet at the same distance under Scenario 2.

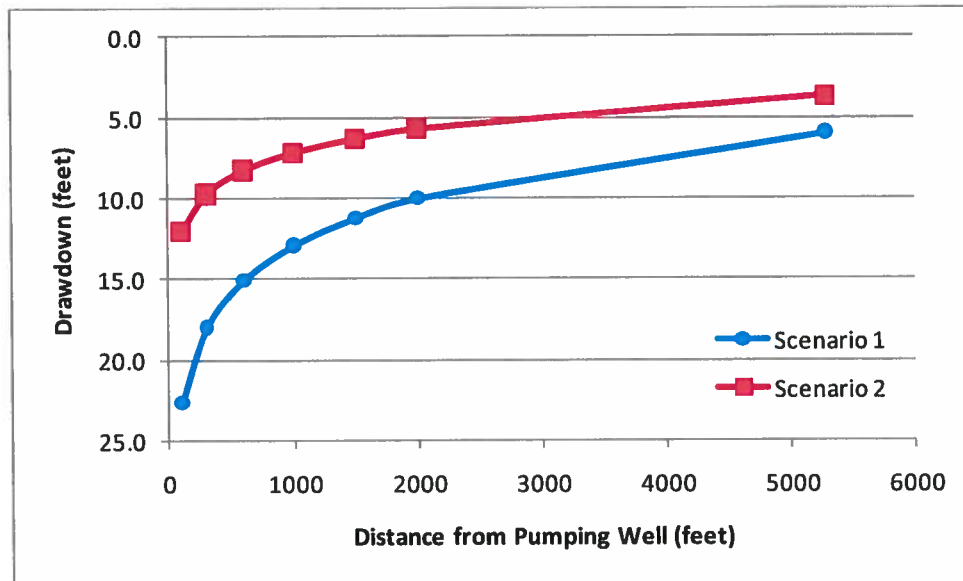


Figure 1. Theoretical drawdown associated with pumping 184 gpm (0.41 cfs) for 154 days for Scenario 1 ($T = 10,000$ gpd/ft, $S = 0.001$) and Scenario 2 ($T = 20,000$ gpd/ft, $S = 0.001$)

D. Discussion and Conclusions

Using the Theis non-equilibrium well equation, and associated assumptions, the theoretical drawdown at a distance of one mile from project pumping wells is 6.0 feet under Scenario 1. Drawdown decreases to 3.7 feet at the same distance under Scenario 2. These values are associated with pumping the wells at maximum system capacity (184 gpm) for 154 days, which is the duration required to reach the permitted annual volume of 125 acre feet per year. This pumping scenario is the most conservative approach to determine the radius of impact of the project.

Injury to existing Boise River water rights will be avoided within the theoretical radius of impact based on Parklane Company's intent to return pumped water directly to the Boise River via an ACHD storm drain rather than injecting the water into the shallow groundwater production zone. The following equation can be used to estimate the timing of peak discharge (i.e., river gains) associated with stresses to an aquifer occurring a given distance away from the discharge point,

$$T_{max} = \frac{r^2}{6D}$$

where T is time of peak discharge, r is the distance between the stress to the aquifer (for example, pumping wells) and the discharge location (i.e., Boise River), and D is the hydraulic diffusivity of the aquifer, defined as the ratio between aquifer transmissivity and storativity (Criss and Winston, 2003). In this case, the project production wells are approximately 3,114 feet away from the Boise River (that is, r is 3,114 feet). Assuming

an aquifer transmissivity of 10,000 gpd/ft and an aquifer storativity of 0.001, the peak depletion to the Boise River associated with pumping of the project wells would occur 1.2 days following pumping. By using the ACHD storm drain, water is nearly immediately released to the Boise River, and there is no chance other groundwater users would divert the water before it reaches the Boise River. Using the ACHD storm drain system will add to Boise River flow more directly (i.e., immediately rather than 1.2 days after injection into the shallow groundwater production zone), thus benefitting senior Boise River water rights during the irrigation season.

E. References

Criss, R.E. and W.E. Winston, 2003. Hydrograph for Small Basins Following Intense Storms. *Geophysical Research Letters* 30(6):1314-1318, doi: 10.1029/2002GL016808.

Scanlan Engineering, 2002. Analysis of Upper Zone Pumping Test – Idaho Water Center Exploration Well; In: University of Idaho Water Center Groundwater Cooling System Project Activity Summary.

Theis, C.V., 1935. The relation between the lowering of the piezometric surface and the rate and duration of discharge of a well using ground-water storage. *Transactions, American Geophysical Union*, 16: 519-524

F. Attachments

Attachment A: Well Driller's Reports for Project Wells

Form 238-7
6/02

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

847303
Office Use Only
Well ID No. 294315
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat: _____ Long: _____

1. WELL TAG NO. D 0047061
DRILLING PERMIT NO. 900437-847303
Water Right or Injection Well No. 63-W-137-001

2. OWNER:
Name Ken Howell (Park Lane)
Address 817 W. Franklin
City Boise State ID Zip 83702

3. LOCATION OF WELL by legal description:
You must provide address or Lot, Blk, Sub. or Directions to well.
Twp. 3 North ☒ or South ☐
Rge. 2 East ☒ or West ☐
Sec. 10 NW 1/4 NE 1/4 SE 1/4
Gov't Lot _____
County _____
Lat: _____ Long: _____
Address of Well Site 710-720 W. Idaho St
City Boise
(Give at least name of road - Distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name _____

4. USE:
☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☒ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)
☐ New Well ☒ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:
☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
N/A				

Was drive shoe used? ☒ Y ☒ N Shoe Depth(s) 179
Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	12	149	250	Steel	☒	☐	☐	☐
5	145	150	258	ST	☐	☒	☐	☐
5	195	196	258	ST	☐	☒	☐	☐

Length of Headpipe 5 Length of Tailpipe 1'6"
Packer ☒ Y ☐ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE
Perforation Method _____
Screen Type & Method of Installation Johnson - Pull Back

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
185	195	020		5	S.S	☐	☐
167	183	020		5	S.S	☐	☐
150	165	025		5	S.S	☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
30 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices:
Welder Flange on casing

12. WELL TESTS:
☒ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
180		130	2

Water Temp. 64 Bottom hole temp. _____
Water Quality test or comments: _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
6	115	120	SAND Clay streaks	☒	
1	120	130	Fine SAND	☒	
1	130	140	Cemented SAND	☒	
1	140	175	C. SAND	☒	
1	175	185	Blue SAND	☒	
✓	185	195	Blue Clay - SAND streaks	☒	

RECEIVED
JUL 12 2007
WATER RESOURCES
WESTERN REGION

Completed Depth 195 (Measurable)
Date: Started 6-6-07 Completed 6-22-07

14. DRILLER'S CERTIFICATION
I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name D P W D Firm No. 332
Principal Driller Don Phillips Date 6-29-07
and
Driller or Operator II _____ Date _____
Operator I _____ Date _____
Principal Driller and Rig Operator Required.
Operator I must have signature of Driller/Operator II.

FORWARD WHITE COPY TO WATER RESOURCES



PARKLANE MANAGEMENT
COMPANY, LLC

INVESTMENT PROPERTY
DEVELOPMENT ■ MANAGEMENT

January 3, 2011

Angela M. Grimm
Water Resource Agent, Sr.
IDWR

Re: Application for Permit 63-33245 and Transfer 76971 of WR 63-12342

Dear Angela:

I am writing this letter in response to your letter to SPF Water Engineering, LLC dated December 23rd 2010 and your request for information demonstrating that "Parklane Company Inc. has authorization to make the permit and transfer filings in their name".

The Union Block Building is wholly owned by Union Block Associates LLC of which I am majority owner and my immediate family members are minority owners. I also wholly own Parklane Company Inc. and give Parklane Company Inc. all rights and authority to make the permit and transfer filings related to "Application for Permit 63-33245 and Transfer 76971 of WR 63-12342" for Union Block Associates LLC.

By: 
Signature

Date: 1-4-11

Kery Howell
Name

President RHI, managing member
Title



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: www.idwr.idaho.gov

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

December 23, 2010

Parklane Company, Inc.
c/o SPF Water Engineering, LLC
Attn: Lori Graves
300 E. Mallard, Ste 350
Boise, ID 83706

COPY

Re: Application for Permit 63-33245 and Transfer 76971 of WR 63-12342

Dear Lori:

Your client's recent application for permit 63-33245 regarding ground water for heating and cooling is being processed along with the application for transfer 76971 to add a point of diversion to right 63-12342. To assist this office in completing the initial processing steps, please submit information to address the following proposed project use and water supply considerations:

- Determine the probable radius of impact for the project, including diversion authorized via right 63-12342 and additional diversion proposed via permit application 63-33245. Provide a credible explanation for determination of this radius. Demonstrate how injury to existing water rights will be avoided within the probable radius of impact based on the proposal to divert shallow ground water (considered tributary to the Boise River) and return it to the Boise River directly rather than injection into the shallow ground water production zone. Indicate whether the proposed diversion of shallow ground water will likely injure existing Boise River water rights based on the determined radius of impact. Submit information indicating where the storm drain you plan to discharge the spent water enters the Boise River and if discharge to that location will likely offset any depletion to the river, particularly during the irrigation season of 3/1 to 11/15.
- Permit application 63-33245 indicates the applicant does not propose to divert any additional volume of water for cooling purposes, but only an additional increment of rate. If this interpretation of the application is incorrect and the applicant is seeking an additional increment of volume for cooling use, please justify the need for an increase in excess of that provided for via right 63-12342.
- Provide information demonstrating the proposed rate of flow for heating use proposed for permit application 63-33245 is reasonable to provide for the new beneficial use.

Parklane Company, Inc.
December 23, 2010
Page 2 of 2

- Both the permit and transfer application state Parklane Company Inc. (applicant) is the property owner. Information available to the Department indicates another entity may be the property owner. Provide information demonstrating Parklane Company Inc.'s authorization to make the permit and transfer filings in their name if the property is in fact owned by another entity.

Please submit the requested information to allow for further evaluation of your client's applications. You may seek additional time to provide the information by making a written request to interrupt processing for up to six months. Your response or a request for more time must be received within the next ninety (60) days. The permit application will be voided and transfer application rejected without a timely written reply.

IDWR rules, forms and other information are available on the Internet at www.idwr.idaho.gov. Please contact me at 208-334-2190 if you need more information. Thank you for your attention to these matters.

Sincerely,

A handwritten signature in black ink, appearing to read 'Angela M. Grimm', with a stylized flourish at the end.

Angela M. Grimm, P.G.
Water Resource Agent, Sr.



RECEIVED

MAR 23 2009

DEPARTMENT OF
WATER RESOURCES

March 20, 2009

Jeff Peppersack
IDWR State Office
PO Box 83720
Boise, ID 83720-0098

Subject: (1) Petition for Condition Modification - Permit 63-12342
(2) Application for Transfer of Water Right 63-12432
(3) Application for Permit Seeking Additional Flow for Heating and Cooling

Dear Jeff:

Petition for Condition Modification. On behalf of Parklane Company, Inc. (Parklane), this letter serves as a petition to Idaho Department of Water Resources (IDWR) requesting that condition No. 5 listed on Permit 63-12342 be modified. The condition (also listed as condition No. 3 on the on-line Water Permit Report) states

"Proposed water bearing zone to be appropriated is from 0 to 65 feet. All flows to be reinjected to same zone.

Parklane requests that the reinjection requirement be removed and that the water-bearing zone be changed to 79 to 195 feet.

Permit 63-12342 is for a non-consumptive closed-loop heat-exchange system used for cooling the Union Block Building. The department conducted a licensing field exam on the permit in 1997, at which time they found one well used for diversion of fresh cooling water and one well used for injection of spent cooling water. The well used for diversion is 90 feet deep, with screen placed from 79 to 89 feet. The well used for injection was originally 63 feet, with perforations from 21 to 63 feet. The injection well was subsequently deepened to 115 feet in 1999 and to 195 feet in 2007, and is currently cased to 149 feet with screens from 150 to 195 feet. Well driller's reports are attached.

Due to injection well plugging problems, Parklane has been unsuccessful in supplying the necessary cooling flows for the Union Block Building. However, Parklane Company has recently received approval from ACHD to discharge their spent cooling water into ACHD's storm water drain system located in the alley behind the Union Block Building. A copy of the license is attached. As a result, use of the injection well is no longer necessary if the permit reinjection requirement is eliminated. This change will not result in depletion of Boise River flows. Using the ACHD system will in fact add to the Boise River flows more directly than if using the injection well, thereby potentially benefiting senior Boise River water rights during the irrigation season.

Application for Transfer. The department's granting of the petition and then licensing permit 63-12342 will enable the attached Application for Transfer to be processed, in which Parklane proposes using the former injection well as a second production well. A second production well will provide redundancy and additional diversion capacity for the Union Block Building to ensure that the cooling flow requirements can be met.

Application for Permit. Existing permit 63-12342 authorizes diversion of 0.26 cfs of groundwater for cooling purposes at the Union Block Building. The heat exchanger for the Union Block Building has a capacity of 0.41 cfs, and can be used for both heating and cooling. As a result, Parklane would like to increase the authorized diversion rate for cooling to 0.41 cfs (by adding an additional 0.15 cfs of cooling flow) and also obtain 0.41 cfs for heating purposes.

A \$500 check is enclosed to cover the transfer (\$250) and permit (\$250) application fees.

Please let me know if there are any questions. Thanks Jeff.

Sincerely,



Lori Graves
Water Rights Specialist

Cc: Ken Howell

Enclosures

- (1) Well Driller's Reports
- (2) ACHD Discharge License
- (3) Application for Transfer – 63-12342
- (4) Application for Permit
- (5) Check for Application Fees

SPF file number: 722.0010