

RECEIVED
JUN 14 2008
DEPT. OF WATER RESOURCES
SOUTHERN REGION

4. Point(s) of Diversion for Nos. _____:

Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Local name for diversion
		SW	NW	20	3N	18E	Blaine	Hiawatha Canal

Point(s) of Diversion for Nos. _____:

Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Local name for diversion

Lands irrigated or place of use for No. Water Right 37-2630 will be used for supplemental irrigation of Valley Club golf5. courses. See Substantiating Report for details:

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
3N	18W	20		(R)												R			
2N	18W	4					R												

Lands irrigated or place of use for No. _____:

Lands irrigated or place of use for No. _____:

Lands irrigated or place of use for No. _____:

Total acres _____

Superseded

PART 1

6. General Information:

- a. Description of diversion system See Substantiating Report in Attachment B.
Water will be diverted into the Hiawatha Canal from the Big Wood River, then delivered via existing Canal turnouts and conveyance facilities to infiltration basins for recharge (2 alternate sites).
- b. Are the lands from which you propose to transfer the water right subject to any liens, deeds of trust, mortgages, or contracts? X Yes _____ No. If yes, please provide a notarized statement from the holder of the lien, deed of trust, mortgage or contract agreeing to the proposed changes. See Attachment A.
- c. Describe the affect on the land now irrigated if the place of use is changed pursuant to this transfer:
10 acres of irrigated land will be dried up and no longer irrigated under these rights
- d. Remarks:
See Substantiating Report in Attachment B.

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

This is to certify that I have examined Application for Transfer of Water Rights No. _____

And said application is hereby _____, subject to the following limitations and conditions:

Witness my hand this _____ day of _____ 20 _____.

**STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES**

APPLICATION FOR TRANSFER OF WATER RIGHT

PART 2

(Attach one copy for each right)

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MAY 29 2008

DEPARTMENT OF
WATER RESOURCES

A. DESCRIPTION OF RIGHT AS RECORDED

1. Right evidenced by:
 - a. Decree No. _____ Decreed to _____
In case of _____ vs. _____
dated _____ in _____ county of _____
 - b. License No. _____ issued by the Idaho Department of Water Resources.
 - c. Claim No. 37-481C on file with the Idaho Department of Water Resources.
 - d. Transfer No. _____ which produced this right.
2. Attach a copy of last year's tax notice for the property to which the water right is appurtenant or other document which show ownership. Label document as *Attachment A*. Check appropriate box below:
☐ Tax Notice ☐ Warranty Deed ☒ Other IDWR Recommendation (attached) _____
3. Source of water Big Wood River tributary to Malad River
4. Date or priority 8/1/1882
5. Water is used for the following purpose:

Amount <u>3.014 cfs</u>	for <u>Irrigation</u>	purposes from <u>4/15</u>	to <u>10/31</u>
Amount _____	for _____	purposes from _____	to _____
Amount _____	for _____	purposes from _____	to _____
6. Total amount of water under right 3.014 cubic feet per second and/or _____ acre-feet per annum.
7. Point(s) of Diversion: (as originally claimed, which was inaccurate)

Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Local name for diversion
		SW	NW	36	2N	18E	Blaine	District Canal(#45)

8. Lands irrigated or place of use:

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
1N	19E	6									24	33	12	39			8.5		116.5
		7		31	38	15	28			5.5					35	20			172.5

Total acres 289

See Substantiating Report -
Attachment B.

9. Describe any other water rights used for the same purpose as described above
Combined with water right nos. 37-577BT, 37-482H, 37-483C and 37-263O.

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DEPT. OF WATER RESOURCES
SOLICITATION SECTION

PART 2

10. To your knowledge, has any portion of this water right undergone a period of five or more consecutive years of non-use? NO If yes, describe _____

B. DESCRIPTION OF PORTION OF RIGHT BEING TRANSFERRED

(If the entire right is to be changed by the applicant, omit part B and C.)

1. Amount 0.104cfs for Recharge purposes from 4/15 to 10.31
 Amount _____ for _____ purposes from _____ to _____
 Amount _____ for _____ purposes from _____ to _____

2. Point(s) of Diversion:

Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Local name for diversion
		SW	NW	20	3N	18E	Blaine	Hiawatha Canal

3. Lands irrigated or place of use:

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
3N	18W	20		R												R			
2N	18W	4					R												

Total acres

C. DESCRIPTION OF UNCHANGED PORTION OF RIGHT (omit if there is no change)

1. Amount 2.91 cfs for Irrigation purposes from 4/15 to 10/31
 Amount _____ for _____ purposes from _____ to _____
 Amount _____ for _____ purposes from _____ to _____

2. Point(s) of Diversion:

Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Local name for diversion
		SW	NW	36	2N	18E	Blaine	District Canal

3. Lands irrigated or place of use:

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
1N	19E	6									24	23	12	39			8.5		106.5
		7		31	38	15	28			5.5					35	20			172.5

Total acres

279

**STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES**

APPLICATION FOR TRANSFER OF WATER RIGHT

**PART 2
(Attach one copy for each right)**

RECEIVED

MAY 29 2008

DEPARTMENT OF
WATER RESOURCES

A. DESCRIPTION OF RIGHT AS RECORDED

1. Right evidenced by:

- a. Decree No. _____ Decreed to _____
In case of _____ vs. _____
dated _____ in _____ county of _____
- b. License No. _____ issued by the Idaho Department of Water Resources.
- c. Claim No. 37-577BT on file with the Idaho Department of Water Resources.
- d. Transfer No. _____ which produced this right.

2. Attach a copy of last year's tax notice for the property to which the water right is appurtenant or other document which show ownership. Label document as *Attachment A*. Check appropriate box below:

☐ Tax Notice ☐ Warranty Deed ☒ Other IDWR recommendation

3. Source of water Big Wood River tributary to Malad

4. Date or priority 3-24-1883

5. Water is used for the following purpose:

Amount 2.2 cfs for Irrigation purposes from 4/15 to 10/31
Amount _____ for _____ purposes from _____ to _____
Amount _____ for _____ purposes from _____ to _____

6. Total amount of water under right 2.2 cubic feet per second and/or _____ acre-feet per annum.

7. Point(s) of Diversion: *(as originally claimed, which was inaccurate)*

Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Local name for diversion
		SW	NW	36	2N	18E	Blaine	District Canal

8. Lands irrigated or place of use:

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
1N	19E	6									24	33	12	39			8.5		116.5
		7		31	38	15	28			55					35	20			172.5

Total acres 289

*See Substantiating Report -
Attachment B.*

9. Describe any other water rights used for the same purpose as described above
Combined with water right nos. 37-481C, 37-482H, 37-483C and 37-263O.

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DEPT. OF WATER RESOURCES
SOUTHERN REGION

PART 2

10. To your knowledge, has any portion of this water right undergone a period of five or more consecutive years of non-use? No If yes, describe _____

B. DESCRIPTION OF PORTION OF RIGHT BEING TRANSFERRED

(If the entire right is to be changed by the applicant, omit part B and C.)

1. Amount 0.076 cfs for Recharge purposes from 4/15 to 10/31
 Amount _____ for _____ purposes from _____ to _____
 Amount _____ for _____ purposes from _____ to _____

2. Point(s) of Diversion:

Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Local name for diversion
		SW	NW	20	3N	18E	Blaine	Hiawatha Canal

3. Lands irrigated or place of use:

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
3N	18W	20		R												R			
2N	18W	4						R											

Total acres

C. DESCRIPTION OF UNCHANGED PORTION OF RIGHT (omit if there is no change)

1. Amount 2.124 cfs for Irrigation purposes from 4/15 to 10/31
 Amount _____ for _____ purposes from _____ to _____
 Amount _____ for _____ purposes from _____ to _____

2. Point(s) of Diversion:

Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Local name for diversion
		SW	NW	36	2N	18E	Blaine	District Canal

3. Lands irrigated or place of use:

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
1N	19E	6									24	23	12	39			8.5		106.5
		7		31	38	15	28			55					35	20			172.5

Total acres

279

**STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES**

APPLICATION FOR TRANSFER OF WATER RIGHT

PART 2

(Attach one copy for each right)

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MAY 29 2008

DEPARTMENT OF
WATER RESOURCES

A. DESCRIPTION OF RIGHT AS RECORDED

1. Right evidenced by:

- a. Decree No. _____ Decreed to _____
In case of _____ vs. _____
dated _____ in _____ county of _____
- b. License No. _____ issued by the Idaho Department of Water Resources.
- c. Claim No. 37-482H on file with the Idaho Department of Water Resources.
- d. Transfer No. _____ which produced this right.

2. Attach a copy of last year's tax notice for the property to which the water right is appurtenant or other document which show ownership. Label document as *Attachment A*. Check appropriate box below:

☐ Tax Notice ☐ Warranty Deed ☒ Other IDWR recommendation

3. Source of water Big Wood River tributary to Malad River

4. Date or priority 8-1-1884

5. Water is used for the following purpose:

Amount 3.012 cfs for Irrigation purposes from 4/15 to 10/31
Amount _____ for _____ purposes from _____ to _____
Amount _____ for _____ purposes from _____ to _____

6. Total amount of water under right 3.012 cubic feet per second and/or _____ acre-feet per annum.

7. Point(s) of Diversion: (as originally claimed, which was inaccurate)

Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Local name for diversion
		SW	NW	36	2N	18E	Blaine	District Canal

8. Lands irrigated or place of use:

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
1N	19E	6									24	33	12	39			8.5		116.5
		7		31	38	15	28			5.5					35		20		172.5

Total acres 289

9. Describe any other water rights used for the same purpose as described above
Combined with water right nos. 37-481C, 37-577BT, 37-483C and 37-263O.

See Substantiating Report -
Attachment B.

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DEPT. OF WATER RESOURCES
SOUTHERN REGION

PART 2

10. To your knowledge, has any portion of this water right undergone a period of five or more consecutive years of non-use? No If yes, describe _____

B. DESCRIPTION OF PORTION OF RIGHT BEING TRANSFERRED

(If the entire right is to be changed by the applicant, omit part B and C.)

1. Amount 0.104cfs for Recharge purposes from 4/15 to 10/31
 Amount _____ for _____ purposes from _____ to _____
 Amount _____ for _____ purposes from _____ to _____

2. Point(s) of Diversion:

Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Local name for diversion
		SW	NW	20	3N	18E	Blaine	Hiawatha Canal

3. Lands irrigated or place of use:

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
3N	18W	20		R												R			
2N	18W	4					R												

Total acres

C. DESCRIPTION OF UNCHANGED PORTION OF RIGHT (omit if there is no change)

1. Amount 2.908 cfs for Irrigation purposes from 4/15 to 10/31
 Amount _____ for _____ purposes from _____ to _____
 Amount _____ for _____ purposes from _____ to _____

2. Point(s) of Diversion:

Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Local name for diversion
		SW	NW	36	2N	18E	Blaine	District Canal

3. Lands irrigated or place of use:

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
1N	19E	6									24	23	12	39			8.5		106.5
		7		31	38	15	28			5.5					35		20		172.5

Total acres

279

**STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES**

APPLICATION FOR TRANSFER OF WATER RIGHT

PART 2
(Attach one copy for each right)

RECEIVED

MAY 29 2008

DEPARTMENT OF
WATER RESOURCES

A. DESCRIPTION OF RIGHT AS RECORDED

1. Right evidenced by:
 - a. Decree No. _____ Decreed to _____
In case of _____ vs. _____
dated _____ in _____ county of _____
 - b. License No. _____ issued by the Idaho Department of Water Resources.
 - c. Claim No. 37-483C on file with the Idaho Department of Water Resources.
 - d. Transfer No. _____ which produced this right.
2. Attach a copy of last year's tax notice for the property to which the water right is appurtenant or other document which show ownership. Label document as *Attachment A*. Check appropriate box below:
☐ Tax Notice ☐ Warranty Deed ☒ Other IDWR recommendation
3. Source of water Big Wood River tributary to Malad River
4. Date or priority 8-1-1902
5. Water is used for the following purpose:

Amount <u>15.086 cfs</u>	for <u>Irrigation</u>	purposes from <u>4/15</u>	to <u>10/31</u>
Amount _____	for _____	purposes from _____	to _____
Amount _____	for _____	purposes from _____	to _____
6. Total amount of water under right 15.086 cubic feet per second and/or _____ acre-feet per annum.
7. Point(s) of Diversion: *(as originally claimed, which was inaccurate)*

Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Local name for diversion
		SW	NW	36	2N	18E	Blaine	District Canal

8. Lands irrigated or place of use:

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
1N	19E	6									24	33	12	39			8.5		116.5
		7		31	38	15	28			5.5					35	20			172.5

Total acres 289

9. Describe any other water rights used for the same purpose as described above
Combined with water right nos. 37-481C, 37-577BT, 37-482H, and 37-263O.

See Substantiating Report -
Attachment B.

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DEPT. OF WATER RESOURCES
SOUTHERN REGION

PART 2

10. To your knowledge, has any portion of this water right undergone a period of five or more consecutive years of non-use? No If yes, describe _____

B. DESCRIPTION OF PORTION OF RIGHT BEING TRANSFERRED

(If the entire right is to be changed by the applicant, omit part B and C.)

1. Amount 0.522 cfs for Recharge purposes from 4/15 to 10/31
 Amount _____ for _____ purposes from _____ to _____
 Amount _____ for _____ purposes from _____ to _____

2. Point(s) of Diversion:

Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Local name for diversion
		SW	NW	20	3N	18E	Blaine	Hiawatha Canal

3. Lands irrigated or place of use:

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
3N	18W	20		R												R			
2N	18W	4					R												

Total acres

C. DESCRIPTION OF UNCHANGED PORTION OF RIGHT (omit if there is no change)

1. Amount 14.564 cfs for Irrigation purposes from 4/15 to 10/31
 Amount _____ for _____ purposes from _____ to _____
 Amount _____ for _____ purposes from _____ to _____

2. Point(s) of Diversion:

Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Local name for diversion
		SW	NW	66	2N	18E	Blaine	District Canal

3. Lands irrigated or place of use:

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
1N	19E	6									24	23	12	39			8.5		106.5
		7		31	38	15	28			5.5					35	20			172.5

Total acres

279

**STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES**

APPLICATION FOR TRANSFER OF WATER RIGHT RECEIVED

**PART 2
(Attach one copy for each right)**

MAY 29 2008

DEPARTMENT OF
WATER RESOURCES

A. DESCRIPTION OF RIGHT AS RECORDED

1. Right evidenced by:

- a. Decree No. _____ Decreed to _____
In case of _____ vs. _____
dated _____ in _____ county of _____
- b. License No. _____ issued by the Idaho Department of Water Resources.
- c. Claim No. 37-2630 on file with the Idaho Department of Water Resources.
- d. Transfer No. _____ which produced this right.

2. Attach a copy of last year's tax notice for the property to which the water right is appurtenant or other document which show ownership. Label document as *Attachment A*. Check appropriate box below:

☐ Tax Notice ☐ Warranty Deed ☒ Other IDWR recommendation

3. Source of water Ground water tributary to _____

4. Date or priority 2-2-1960

5. Water is used for the following purpose:

Amount 3.75 cfs for _____ purposes from 4/15 to 10/31
Amount _____ for _____ purposes from _____ to _____
Amount _____ for _____ purposes from _____ to _____

6. Total amount of water under right _____ cubic feet per second and/or _____ acre-feet per annum.

7. Point(s) of Diversion: *(as originally claimed, which was inaccurate)*

Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Local name for diversion
		NW	SW	6	1N	19E	Blaine	Well

8. Lands irrigated or place of use:

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
1N	19E	6									24	33	12	39			8.5		116.5
		7		31	38	15	28			5.5					35	20			172.5

Total acres 289

See Substantiating Report -
Attachment B.

9. Describe any other water rights used for the same purpose as described above
Combined with water right nos. 37-481C, 37-577BT, 37-482H, and 37-483C.

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DEPT. OF WATER RESOURCES
SOUTHERN REGION

PART 2

10. To your knowledge, has any portion of this water right undergone a period of five or more consecutive years of non-use? No If yes, describe _____

B. DESCRIPTION OF PORTION OF RIGHT BEING TRANSFERRED

(If the entire right is to be changed by the applicant, omit part B and C.)

1. Amount 0.13 cfs for Irrigation purposes from _____ to _____
 Amount _____ for _____ purposes from _____ to _____
 Amount _____ for _____ purposes from _____ to _____

2. Point(s) of Diversion:

Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Local name for diversion

3. Lands irrigated or place of use: 10 acres supplemental within PPU description below

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
3N	18W	20																	
2N	18W	4																	

Total acres 10

C. DESCRIPTION OF UNCHANGED PORTION OF RIGHT (omit if there is no change)

1. Amount 3.62 cfs for Irrigation purposes from 4/15 to 10/31
 Amount _____ for _____ purposes from _____ to _____
 Amount _____ for _____ purposes from _____ to _____

2. Point(s) of Diversion:

Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Local name for diversion
		NW	SW		1N	19E	Blaine	well

3. Lands irrigated or place of use:

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
1N	19E	6									24	23	12	39			8.5		106.5
		7		31	38	15	28			5.5					35	20			172.5

Total acres 279

SCALE: 2 inches equal 1 mile, Draw plan in ink.

PART 3**B. CHANGES IN NATURE OF USE**

1.	<u>New Nature of Use</u>	<u>Amount</u> (cfs/ac-ft)	<u>Hours/days/year</u>	<u>Period of Use</u>
	<i>Recharge</i>	<i>Up to 0.936 cfs when in priority</i>	<i>4/15</i>	<i>to 10/31</i>
				<i>to</i>
				<i>to</i>

2. Quantity and quality of return flows and location of discharge:

See attached supporting materials.

3. Describe effects on other water uses resulting from the proposed change:

Recharge will offset depletions by junior priority ground water pumping thereby protecting other water uses.

I hereby assert that no one will be injured by such change and that the change does not constitute an enlargement in use of the original right. The information contained in this application is true to the best of my knowledge.

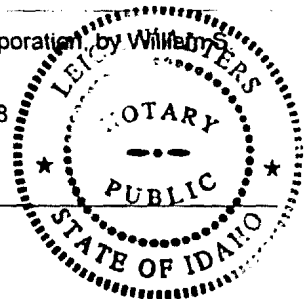
I understand that any willful misrepresentations made in this application may result in voiding its approval.

Subscribed and sworn to before me this 28th day of

[Signature]
The Valley Club, Inc., an Idaho corporation, by William S. Potter, Director

May, 2008*Reigh Walters*

(Notary Public)



My commission expires

6/13/2009

South County Estates, LLC, an Idaho limited liability company, by John Scherer, Managing Member

Subscribed and sworn to before me this

day of

, 2008

(Notary Public)

May commission expires _____

FOR DEPARTMENT USE ONLY

Transfer contains _____ pages and _____ attachments.

Received by *State office* Date *5/29/2008* Protest filed by _____Prelim. Check by _____ Fee *250.00 - C086985*

PART 3**B. CHANGES IN NATURE OF USE**

- | 1. | <u>New Nature of Use</u> | <u>Amount</u>
(cfs/ac-ft) | <u>Hours/days/year</u> | <u>Period of Use</u> |
|----|--------------------------|---|------------------------|-----------------------------|
| | <u>Recharge</u> | <u>Up to 0.936 cfs</u>
<u>when in priority</u> | | <u>4/15</u> to <u>10/31</u> |
| | | | | to _____ |
| | | | | to _____ |
2. Quantity and quality of return flows and location of discharge:
See attached supporting materials.
3. Describe effects on other water uses resulting from the proposed change:
Recharge will offset depletions by junior priority ground water pumping thereby protecting other water uses.

I hereby assert that no one will be injured by such change and that the change does not constitute an enlargement in use of the original right. 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 voiding its approval.

The Valley Club, Inc., an Idaho corporation, by William S. Potter, Director

Subscribed and sworn to before me this _____ day of _____, 2008

My commission expires _____

(Notary Public)

South County Estates, LLC, an Idaho limited liability company, by John Scherer, Managing Member

Subscribed and sworn to before me this 28th day of May, 2008

(Notary Public)

**FOR DEPARTMENT USE ONLY**

Transfer contains _____ pages and _____ attachments.

Received by _____ Date _____ Protest filed by _____

Prelim. Check by _____ Fee _____

Received by _____ Date _____

Published in _____ Copies of protest forwarded by _____

Pub. dates _____ Hearing held by _____ Date _____

Watermaster recommendation requested on _____ Recommended for ☐ approval ☐ denial

_____ rec'd. _____ by _____

Copy of transfer sent to lien holder _____

ATTACHMENT A
CONSENT OF LIENHOLDER AND PARTIAL RELEASE OF LIEN
and
AGREEMENT FOR PURCHASE AND
SALE OF WATER RIGHTS

CONSENT OF LIENHOLDER AND PARTIAL RELEASE OF LIEN

The undersigned beneficiary under that certain Mortgage October 13, 2005, recorded as Instrument No. 527439 as modified pursuant to that Modification of Mortgage dated November 28, 2006 recorded as Instrument No. 542378 in the official records of Blaine County, Idaho (collectively the "Mortgage"), hereby consents to all of the provisions contained in the Agreement for Purchase and Sale of Water Right dated March 18, 2008 by and between South County Estates, LLC and The Valley Club, Inc. ("Purchase Agreement") and agrees that the lien of the Mortgage be released as it relates to the Water Rights referenced in the Purchase Agreement.

Dated: 5-23-08

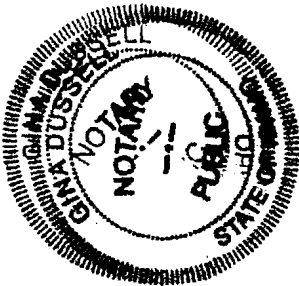
MOUNTAIN WEST BANK

By: Dale Chaney
Its: V.P. & Loan Officer

STATE OF IDAHO)
) ss.
County of Blaine)

On this 23rd day of May, 2008, before me, Gina Russell, a Notary Public in and for said State, personally appeared Dale Chaney, known or identified to me to be the Vice President of MOUNTAIN WEST BANK, the banking association that executed the within instrument or the person who executed the instrument on behalf of said association and acknowledged to me that such association executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.



Gina Russell
Notary Public for Blaine County
Residing at Hailey, ID
My commission expires 4-28-12

**AGREEMENT FOR PURCHASE AND SALE
OF WATER RIGHTS**

THIS AGREEMENT FOR PURCHASE AND SALE OF WATER RIGHTS ("Agreement") is made and entered into this _____ day of March, 2008, by and between SOUTH COUNTY ESTATES, LLC, an Idaho limited liability company (hereinafter referred to as "Seller"), and THE VALLEY CLUB, INC., an Idaho corporation, (hereinafter referred to as "Buyer").

RECITALS:

WHEREAS, the Seller owns stacked Water Rights for irrigation of 289 acres appurtenant to Seller's real property located in the County of Blaine, State of Idaho, known as the "Peterson Ranch," identified by the Idaho Department of Water Resources ("IDWR") as Combined Water Right Numbers: 37-482H, 37-481C, 37-483C, 37-577BT, and 37-2630, and more particularly described on Exhibit "A" to this Agreement, consisting of five pages, attached hereto and incorporated herein by reference (the "Water Rights"); and

WHEREAS, the Buyer desires to purchase a portion of the Water Rights from the Seller in accordance with the terms herein below set forth;

NOW, THEREFORE, in consideration of the mutual covenants, promises and conditions set forth herein, it is agreed as follows:

**ARTICLE 1
Sale of Water Right**

1.1 The Seller agrees to sell and convey, and the Buyer agrees to purchase, ten (10) acres of the Water Rights (i.e. 10/289 of each water right set forth on Exhibit "A") to be transferred to Buyer's intended use as described in the Transfer Application to be jointly filed by the parties (the "Transferred Water Rights").

**ARTICLE 2
Purchase Price/Closing Date/Contingency**

2.1 The Purchase Price shall be _____ per acre, for a total Purchase Price of _____. Any amount of conveyance loss to be left in the original conveyance system for the Water Rights shall be absorbed by Buyer.

2.2 **Earnest money:**

2.2.1 Pursuant to a Letter of Intent dated February 14, 2008, the Buyer has deposited into escrow with Blaine County Title Company ("Escrow Agent") the sum of _____ as earnest money.

(Signature)

2.2.2 Upon execution of this Agreement by both parties, the Buyer will immediately deposit into escrow with Escrow Agent the sum of _____ as additional earnest money.

2.2.3 Within two (2) business days of the expiration of the IDWR transfer protest period relating to the transfer, and provided that no transfer protests to the proposed water right transfer have been filed, and further provided that Seller has obtained and delivered into escrow a conditional release of lien and consent to sale ("Release") with respect to the Transferred Water Rights from any person or entity holding a legal claim, lien or encumbrance affecting the Transferred Water Rights, the earnest money shall be increased by an additional _____.

2.2.4 All earnest money identified in Sections 2.2.1, 2.2.2 and 2.2.3 shall be applied to the Purchase Price at Closing; however, in the event the IDWR does not approve the water rights transfer on substantially the terms set forth in this Agreement, or if a Release, if required, has not been obtained and provided by Seller, the earnest money shall be returned to Buyer, less one-half of any fees charged by the Escrow Agent, and all further obligations under this Agreement shall cease and become null and void.

2.3 Closing:

2.3.1 All earnest money, together with the balance of the Purchase Price, that is _____, shall be delivered to the Seller at Closing.

2.3.2 Unless the parties agree otherwise, in writing, Closing shall occur within fifteen (15) days after IDWR approval of the Transferred Water Rights, on substantially the terms set forth in this Agreement, becomes final and unappealable.

2.3.3 In the event the transfer of the Transferred Water Rights is not approved by the IDWR on substantially the terms set forth in this Agreement and the Transfer Application, Buyer shall have the option, but not the obligation, to proceed to Closing, and thereafter, in Buyer's sole discretion, Buyer may obtain rescission of the unfavorable Water Right Transfer, and at Buyer's sole expense, may seek to transfer the water rights in some other manner, and Seller agrees to cooperate with Buyer in that regard.

2.3.4 In the event all Seller's conditions to close are met and Buyer fails to close on the Closing Date, Buyer shall forfeit all earnest money to Seller.

2.4 Other than a final order entered by IDWR on the transfer proceeding having become non-appealable on substantially the terms of this Agreement, including the terms described in paragraph 5.2 herein, and Seller obtaining and providing Buyer any required

Release, there are no contingencies for Buyer's obligation to purchase the Transferred Water Rights under this Agreement.

2.5 Seller shall pay David Cropper, broker at the Real Estate Center, 400 North Main Street, Suite 1, Halley, ID 83333, a commission with respect to this sale, to be paid at Closing. Other than set forth above, neither Seller nor Buyer has used a broker with respect to this transaction, and each agrees to indemnify and hold the other party harmless from any and all claims for a commission arising from third parties claiming to represent them in connection with this sale.

ARTICLE 3 Warranties and Disclaimer

3.1 Representations and Warranties. Buyer and Seller represent and warrant one to the other that they have the power and authority to enter into this Agreement and the further agreements contemplated hereby, to be bound by, and to perform such agreements. Seller's claim of ownership to the Water Rights is based on the recommendations of IDWR as set forth on Exhibit "A". The Parties hereto provide the follow representations and warranties, all of which shall be valid as of Closing and survive Closing:

3.1.1 By Seller:

- i. Upon consummation of the contemplated purchase, the lands to which the Transferred Water Rights are appurtenant will no longer be irrigated unless Seller develops or obtains and transfers a new water right to such lands for irrigation;
- ii. To Seller's actual knowledge, there are no contracts, actions, claims or proceedings pending that affect the Transferred Water Rights, other than those affecting the Water Rights in the Snake River Basin Adjudication;
- iii. Seller has not assigned or conveyed, or contracted to assign or convey, the Transferred Rights or any claim thereto to any other person entity;
- iv. There are no liens, encumbrances, covenants, conditions or restrictions affecting the Water Rights, other than those that previously have been disclosed in writing to Buyer by Seller;
- v. Seller has the legal power, right and authority to enter into this Agreement and to perform Seller's obligations hereunder; and
- vi. Seller has no knowledge of any continuous five-year period of nonuse of the Water Rights.

3.1.2 By Buyer:



- i. Buyer has the legal power, right and authority to enter into this Agreement and to perform Buyer's obligations hereunder.

ARTICLE 4

Deed

4.1 Title shall be conveyed by a Grant Deed at Closing, in substantially the form attached hereto as **Exhibit "B."** The Title Company responsible for the Closing of this transaction shall be Blaine County Title Company.

ARTICLE 5

Water Right Transfer

5.1 Transfer Application. Buyer shall be responsible to pay for all fees and costs of the transfer, whether or not the transfer is approved by IDWR. Seller and Buyer shall jointly file for the transfer ("Transfer Application") within thirty (30) days from the date of this Agreement, unless an extension is agreed to in writing by the parties hereto. As the current owner of the Water Right, Seller agrees to cooperate in the Transfer Application by signing any and all necessary documents to facilitate the transfer, and Seller agrees to support the transfer before IDWR or any other applicable governmental entity or political subdivision.

5.2 Conveyance Losses. Conveyance losses charged to the Transferred Water Rights to obtain approval shall be borne by the Buyer, up to a total of thirty percent (30%) of the Transferred Water Rights. In the event the conveyance losses charged are greater than thirty percent (30%) of the Transferred Water Rights, then Buyer shall have the option, but not the obligation, to proceed to Closing.

ARTICLE 6

Miscellaneous Provisions

6.1 Survival of All Representations and Warranties. The representations, warranties, covenants and agreements of the Seller and Buyer contained in this Agreement shall survive the Closing hereunder.

6.2 Applicable Law. This Agreement is being executed and delivered within the State of Idaho and shall be construed and enforced in all respects in accordance with the laws of the State of Idaho.

6.3 Number and Gender of Persons. The terms "Buyer" and "Seller" are used herein without regard to the number or gender of the persons constituting such parties. If the Seller and/or the Buyer consist of two or more persons, including, but not limited to, individuals, partnerships, associations or other entities, such persons shall be jointly and severally liable hereunder. Whenever any other neuter or singular term is used herein, such term shall be construed to include the masculine or feminine gender or plural, and shall include any party whether male, female or partnership or other entity as may be appropriate.

6.4 Captions. The captions of this Agreement are inserted only for the purpose of convenient reference and in no way define, limit or prescribe the scope or intent of this Agreement or any part hereof.

6.5 Binding Effect. This Agreement shall be binding upon and inure to the benefit of the heirs, personal representatives, administrators, successors and assigns of the parties hereto.

6.6 Time is of the Essence. Time is of the essence in connection with the duties and obligations contained herein.

6.7 Attorney's Fees. In the event that either party hereto retains an attorney to enforce any right or duty arising out of this Agreement, the prevailing party in such dispute shall be entitled to be paid reasonable attorney's fees by the non-prevailing party, whether or not litigation is actually instituted.

6.8 Entire Agreement. The Seller and Buyer acknowledge that the terms of this Agreement may vary from the terms contained in any other preliminary agreements, written or oral, made prior to the execution of this Agreement and may vary from any negotiations between the parties prior to the execution of this Agreement. The Seller and Buyer agree that the terms, covenants and conditions of this Agreement shall supersede all such prior negotiations and agreements, and that there are no other agreements not contained in this Agreement, and that this Agreement shall be and is the final expression of the agreement of the parties and shall control. No modification of this Agreement shall be valid unless in writing and executed by the parties to the Agreement.

6.9 Severance and Validity. In the event any provision of this Agreement or any part hereof shall be determined by any Court of competent jurisdiction to be invalid, void or otherwise unenforceable, the remaining provisions hereunder, or parts thereof, shall remain in full force and effect, and shall in no way be affected, impaired, or invalidated thereby, it being agreed that such remaining provisions shall be construed in a manner most closely approximating the intention of the parties with respect to the invalid, void or unenforceable provision or part thereof.

6.10 Confidentiality. Buyer, Seller and Seller's Broker agree to maintain the terms of this Agreement in strict confidence, including, but not limited to, the substance of materials exchanged between the parties and the substance of information obtained by either party with respect to the Agreement.

[Signature Page Follows]



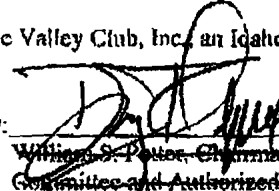
IN WITNESS WHEREOF, the parties have executed this Agreement for Purchase and Sale of Water Rights the day and year first above written.

Dated: 3/18/08

BUYER:

The Valley Club, Inc., an Idaho corporation

By:


~~William S. Potter, Chairman Greens~~ Doug Rhymes,
~~Committee and Authorized Signer~~ President

Dated: 3/13/08

SELLER:

South County Estates, LLC, an Idaho limited liability company

By:

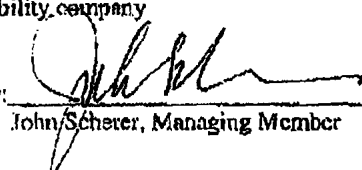

John Scherer, Managing Member

EXHIBIT "A"

EXHIBIT "A" - 1
K:\001001\9033\agreement.DOC



02/20/2007

IDAHO DEPARTMENT OF WATER RESOURCES
RECOMMENDED WATER RIGHTS ACQUIRED UNDER STATE LAW

RIGHT NUMBER: 37-481C
NAME AND ADDRESS: SOUTH COUNTY ESTATES LLC
PO BOX 1519
KETCHUM ID 83340
SOURCE: BIG WOOD RIVER TRIBUTARY: MALAD RIVER
QUANTITY: 3.016 CFS
PRIORITY DATE: 00/01/1982
POINT OF DIVERSION: TOWN RISE S36 SWNW within BLAINE County
water diverted from Headgate #45 delivered through District Canal.

PURPOSE AND
PERIOD OF USE:

PURPOSE OF USE	PERIOD OF USE	QUANTITY
IRRIGATION	04/15 10/31	3.016 CFS

PLACE OF USE:

IRRIGATION in BLAINE County

TOWN RISE S06	NWSE	24.00	TOWN RISE S06 Lot 6 NWSE	33.00	
TOWN RISE S06 Lot 7 SWSE	SWSE	12.00	TOWN RISE S06	SWSE	39.00
TOWN RISE S06	SWSE	8.50	TOWN RISE S07	NWSE	31.00
TOWN RISE S07	SWNE	18.00	TOWN RISE S07	SENE	15.00
TOWN RISE S07	NENE	28.00	TOWN RISE S07	SENE	5.50
TOWN RISE S07	NESE	35.00	TOWN RISE S07	NWSE	20.00

209 ACRES TOTAL

The rights listed below are limited to the irrigation of a combined total of 209 acres in a single irrigation season. Combined Right Nos.: 37-482W, 37-401C, 37-483C, 37-577W, and 37-2630.

OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of the water rights as may be ultimately determined by the Court at a point in time no later than the entry of a final unified decree. Section 42-312(6), Idaho Code.

EXPLANATORY MATERIAL: BASIS OF CLAIM - Decreed

EXHIBIT A
1065

24

02/20/2007

IDAHO DEPARTMENT OF WATER RESOURCES
RECOMMENDED WATER RIGHTS ACQUIRED UNDER STATE LAW

RIGHT NUMBER: 37-577BT
NAME AND ADDRESS: SOUTH COUNTY ESTATES LLC
PO BOX 1539
KEETCHUM ID 83340
SOURCE: BIG WOOD RIVER TRIBUTARY: MALAD RIVER
QUANTITY: 2.200 CFS
PRIORITY DATE: 03/24/1883
POINT OF DIVERSION: TOWN R19E S36 SWNW Within BLAINE County
Water diverted from Headgate #45 delivered through District Canal.

PURPOSE AND PERIOD OF USE:

PURPOSE OF USE	PERIOD OF USE	QUANTITY
IRRIGATION	04/15 10/31	2.200 CFS
PLACE OF USE:	IRRIGATION in BLAINE County	
TOWN R19E S06 N6SW	24.00	TOWN R19E S06 Lot 6 SWNW
TOWN R19E S06 Lot 7 SWNW	12.00	TOWN R19E S06 E6SW
TOWN R19E S06 SWSE	8.50	TOWN R19E S07 NWNE
TOWN R19E S07 SWNE	38.00	TOWN R19E S07 SUNE
TOWN R19E S07 W6NW	18.00	TOWN R19E S07 SWNW
TOWN R19E S07 NWSE	35.00	TOWN R19E S07 NWSE
209 ACRES TOTAL		

The rights listed below are limited to the irrigation of a combined total of 209 acres in a single irrigation season. Combined Right Nos.: 17-482H, 37-481C, 37-481C, 37-577BT, and 37-253D.

OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of the water rights as may be ultimately determined by the Court at a point in time no later than the entry of a final unified decree. Section 42-1412(6), Idaho Code.

EXPLANATORY MATERIAL: BASIS OF CLAIM - Decreed

EXHIBIT A
2 of 5

02/20/2007

IDAHO DEPARTMENT OF WATER RESOURCES
RECOMMENDED WATER RIGHTS ACQUIRED UNDER STATE LAW

RIGHT NUMBER: 37-482N
NAME AND ADDRESS: SOUTH COUNTY ESTATES LLC
PO BOX 1539
KETCHUM ID 83340
SOURCE: BIG WOOD RIVER TRIBUTARY: MILAD RIVER
QUANTITY: 3.012 CFS
PRIORITY DATE: 08/01/1894
POINT OF DIVERSION: TOWN RISE S16 30NW Within BLAINE County
Water diverted from Headgate #45 delivered through District Canal.

PURPOSE AND PERIOD OF USE:

PURPOSE OF USE	PERIOD OF USE	QUANTITY
IRRIGATION	04/15 10/31	3.012 CFS
PLACE OF USE: IRRIGATION in BLAINE COUNTY		
TOWN RISE S06	NSNW 24.00	TOWN RISE S06 Lot 6 NWSW 33.00
TOWN RISE S06 Lot 7 SWSW	12.00	TOWN RISE S06 38SW 39.00
TOWN RISE S06	SWSE 8.50	TOWN RISE S07 NWSE 31.00
TOWN RISE S07	SWNE 30.00	TOWN RISE S07 SESE 15.00
TOWN RISE S07	NENW 20.00	TOWN RISE S07 SENW 5.00
TOWN RISE S07	NESE 35.00	TOWN RISE S07 NWSE 20.00

289 ACRES TOTAL

The rights listed below are limited to the irrigation of a combined total of 289 acres in a single irrigation season. Combined Right Nos.: 37-482N, 37-481C, 37-483C, 37-578N, and 37-263D.

OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of the water rights as may be ultimately determined by the Court at a point in time no later than the entry of a final unified decree. Section 42-1412(4), Idaho Code.

EXPLANATORY MATERIAL: BASIS OF CLAIM - Decreed

EXHIBIT A
3085

(Handwritten signature)

02/20/2007

IDAHO DEPARTMENT OF WATER RESOURCES
RECOMMENDED WATER RIGHTS ACQUIRED UNDER STATE LAW

RIGHT NUMBER: 37-483C
NAME AND ADDRESS: SOUTH COUNTY ESTATES LLC
PO BOX 1539
KETCHUM ID 83340
SOURCE: BIG WOOD RIVER TRIBUTARY: MALAD RIVER
QUANTITY: 15.086 CFS
PRIORITY DATE: 08/01/1900
POINT OF DIVERSION: TOWN RISE S36 SEW within BLAINE County
Water diverted from Headgate #15 delivered through District Canal.

PURPOSE AND
PERIOD OF USE:

PURPOSE OF USE	PERIOD OF USE	QUANTITY
IRRIGATION	04/15 10/31	15.086 CFS

PLACE OF USE:

IRRIGATION IN BLAINE COUNTY

TOWN RISE S06	NESW	24.00	TOWN RISE S06 Lbt 6	NWSE	33.00
TOWN RISE S06 Lbt 7	SESW	12.00	TOWN RISE S06	SESW	39.00
TOWN RISE S06	SWSE	8.50	TOWN RISE S07	NWSE	32.00
TOWN RISE S07	SWSE	38.00	TOWN RISE S07	SESE	15.00
TOWN RISE S07	NWSE	28.00	TOWN RISE S07	SESW	5.00
TOWN RISE S07	NWSE	35.00	TOWN RISE S07	NWSE	20.00

200 ACRES TOTAL

The rights listed below are limited to the irrigation of a combined total of 200 acres in a single irrigation season. Combined Right Nos.: 37-482N, 37-481C, 37-483C, 37-577BT, and 37-2630.

OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of the water rights as may be ultimately determined by the Court as a point in time no later than the entry of a final unified decree. Section 42-1412(6), Idaho Code.

EXPLANATORY MATERIAL: BASIS OF CLAIM - Decreed

EXHIBIT A
445

02/28/2007

IDAHO DEPARTMENT OF WATER RESOURCES
RECOMMENDED WATER RIGHTS ACQUIRED UNDER STATE LAW

RIGHT NUMBER: 37-2630
NAME AND ADDRESS: SOUTH COUNTY ESTATES LLC
PO BOX 1938
KETCHUM ID 83140
SOURCE: GROUND WATER TRIBUTARY:
QUANTITY: 3.750 CFS
1.011.50 APY
PRIORITY DATE: 02/02/1940
POINT OF
DIVERSION: TOWN RISE 36 NW1/4N Within BLAINE County
PURPOSE AND
PERIOD OF USE:

PURPOSE OF USE	PERIOD OF USE	QUANTITY
IRRIGATION	04/15 10/31	3.750 CFS 1.011.50 APY
PLACE OF USE: IRRIGATION in BLAINE County		
TOWN RISE 306 NE1/4	24.00	TOWN RISE 306 Lot 6 NW1/4 13.00
TOWN RISE 306 Lot 7 SW1/4	12.00	TOWN RISE 306 S1/4 39.00
TOWN RISE 306 SW1/4	0.50	TOWN RISE 307 NW1/4 31.00
TOWN RISE 307 SW1/4	30.00	TOWN RISE 307 SE1/4 15.00
TOWN RISE 307 NW1/4	20.00	TOWN RISE 307 SE1/4 5.50
TOWN RISE 307 NE1/4	35.00	TOWN RISE 307 NW1/4 20.00

289 ACRES TOTAL

The rights listed below are limited to the irrigation of a combined total of 289 acres in a single irrigation season. Combined Right Nos.: 37-482E, 37-481C, 37-483C, 37-5778T, and 37-2630.

OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of the water rights as may be ultimately determined by the Court at a point in time no later than the entry of a final unified decree. Section 42-1412(5), Idaho Code.

EXPLANATORY MATERIAL: BASIS OF CLAIM - License

EXHIBIT A
5 of 5

EXHIBIT "B"

Grant Deed

When Recorded Return To:

Michael C. Crenner
Givens Pursley LLP
P.O. Box 2720
Boise, ID 83701
208-388-1200

WATER RIGHTS GRANT DEED AND ASSIGNMENT

FOR VALUE RECEIVED, South County Estates, LLC, an Idaho limited liability company, whose address is P.O. Box 1539, Ketchum, ID 83340 ("Grantor"), does hereby grant, bargain, sell, and convey unto The Valley Club, Inc., an Idaho corporation, whose address is P.O. Box 252, Sun Valley, ID 83353 ("Grantee") and to Grantee's heirs, successors and assigns forever, all of Grantor's right, title and interest in and to the following water rights, to wit: a 10/289ths portion of each of the water rights described in Exhibit A and identified as nos. 37-481C, 37-482H, 37-483C, 37-577BT and 37-2630 in the records of the Idaho Department of Water Resources, and Grantor hereby assigns to Grantee a respective 10/289ths interest in and to water right claims A37-481C, A37-482H, A37-483C, A37-577BT and A37-2630, filed in the Snake River Basin Adjudication, Fifth Judicial District, in the State of Idaho, in and for the County of Twin Falls, Case No. 39576.

IN WITNESS WHEREOF, the undersigned has caused his name to be hereunto subscribed this ____ day of _____, 2008.

SOUTH COUNTY ESTATES, LLC an Idaho
limited liability company

/s/ _____
By:
Its:

DN

ATTACHMENT B

MITIGATION PLAN
AND
SUBSTANTIATING REPORT
IN SUPPORT OF
WATER RIGHT TRANSFER

**Mitigation Plan
and
Substantiating Report
in Support of
Water Right Transfer**

**for
The Valley Club
Sun Valley, Idaho**

May 28, 2008



IMPORTANT NOTICE

This report was prepared exclusively for The Valley Club by AMEC Earth & Environmental, Boulder Office (AMEC). The quality of information, conclusions and estimates contained herein is consistent with the level of effort involved in AMEC's services and based on: i) information available at the time of preparation, ii) data supplied by outside sources and iii) the assumptions, conditions and qualifications set forth in this report. This report is intended to be used by The Valley Club only, subject to the terms and conditions of its contract with AMEC. Any other use of, or reliance on, this report by any third party is at that party's sole risk.

AMEC Earth & Environmental

Boulder Office

1002 Walnut Street, Ste. 200

Boulder, CO 80302

Phone: 303.443.7839

Fax: 303.442.0616

Principal Investigator:

Charles M. Brendecke, PhD, P.E.

303.443.7839, ext. 214

Chuck.Brendecke@amec.com

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APPENDIX B - DEPLETION PROGRAM AND SUMMARY

APPENDIX C - LETTER AGREEMENTS BETWEEN TVC AND VCOA

Introduction

The Valley Club (TVC) owns and operates golf courses near the City of Hailey in Blaine County, Idaho. These golf courses are presently irrigated by surface water diverted from the Big Wood River and by ground water. The surface water rights held by TVC are sufficient in most years to meet golf course irrigation requirements. Ground water is used primarily when the surface water delivery system is not operating or when some surface rights are regulated in priority. These situations typically only occur in dry years.

TVC also anticipates the addition to its existing 27-hole facility of another 9-hole golf course, which will also be partially supplied by junior ground water rights.

Because these TVC ground water rights are of relatively junior priority, they are potentially subject to regulation for senior water rights on the Big Wood River under existing Idaho Department of Water Resources (IDWR) conjunctive management rules. Historically there has not been conjunctive administration of surface and ground water rights on the Big Wood, but such administration is a possibility in the future. TVC wishes to establish a water rights portfolio and water supply operation that will insure it can mitigate any potential injury attributable to its ground water use and in the face of conjunctive administration, should it occur.

To achieve this goal, TVC proposes to acquire and transfer 0.936 cfs of senior surface water rights in the District Canal to the Hiawatha Canal for recharge purposes and to obtain an approved mitigation plan, based on recharge of their transferred surface water rights, that will allow it to continue to use its junior priority ground water rights when necessary if conjunctive management would otherwise require them to be curtailed.

This report describes the existing and anticipated water rights and irrigation operations of TVC, the water right transfer sought to support recharge activities, and a plan for mitigation of pumping depletions under junior TVC ground water rights.

Existing Water Rights and Irrigation Operations

Overview

The Valley Club presently operates two golf courses, an 18-hole course (the “Irwin Course”) that became operational in 1996 and a 9-hole course (the “West 9”) that became operational in 2007. The two courses are irrigated using a portfolio of surface and ground water rights described more fully below.

Both existing golf courses include maintained turf areas (tees, greens, fairways and rough), areas of original and planted native vegetation, and ponds. Golf course construction included soil enhancement and drainage facilities to support efficient irrigation water use. Most turf areas are irrigated at night using ground-level sprinklers supplied through a buried pipe network. Some individual trees and shrubs, particularly in native areas, are drip-irrigated and certain small areas are hand-irrigated from quick-

couplers. To enhance irrigation efficiency, the entire irrigation system is computer-controlled, incorporating continuous on-site weather observation and daily calculation of irrigation requirements.

Water rights

The water rights presently held by TVC are shown in Table 1 and their authorized Points of Diversion (POD) and Places of Use (POU) are shown on Figure 1.

The principal water supply for the two existing TVC courses is derived from surface water rights delivered via the Hiawatha Canal. Ground water historically has been used to support irrigation needs when the Hiawatha Canal is not operating or when there are not adequate surface water supplies available in priority. The TVC water rights are combined and subject to certain conditions, including the following:

1. Combined diversion rate for Irwin Course surface rights not to exceed 7.24 cfs
2. Combined total irrigated area of Irwin course not to exceed 143.8 acres
3. Combined total irrigated area of West 9, including Village Green landscaped areas, not to exceed 93.7 acres
4. Water application on Irwin Course not to exceed 3 acre-feet/acre/year
5. Combined application of West 9 surface rights not to exceed 2.0 cfs per acre nor more than 3.5 acre-feet/acre at the field headgate.

Both the Irwin and West 9 courses incorporate amenity ponds. Evaporative losses from these ponds are offset by dedication of portions of TVC surface water rights previously authorized by IDWR Transfers 3472, 3473, and 71721, as noted in Table 1. Accordingly, pond surface areas for these courses are not included in the irrigated acreage limitations described above.

Water right 37-657B also supports irrigation of landscaping in the Village Green development (between the West 9 and Irwin courses) and in a small Community Housing area adjacent to the West 9, along with a few other small parcels. By agreement with the Village Green developer, these non-golf-related irrigation uses do not and will not exceed 20.93 acres, leaving 72.77 authorized irrigated acres (93.7 – 20.93) on the West 9 course itself.

Irrigation Operations

TVC operates two turnouts on the Hiawatha Canal, an upper turnout which pumps water from the canal and a lower turnout which operates by gravity. The locations of these turnouts are also shown on Figure 1. In addition, the Hiawatha Canal flows through and serves as a water amenity on the West 9 course.

The upper turnout is presently used to deliver surface water rights having priority dates of 1883 and junior to the Irwin course. The turnout discharges to a pond (the “entrance pond”) at the northern end of the Irwin course. From the entrance pond water flows southward through a system of small streams and ponds. Water is pumped from certain of these ponds into the golf course irrigation system. The TVC well also discharges into the entrance pond. Any tail-water from this operation returns to the Hiawatha Canal at the lower (southern) end of the Irwin course.

The lower Hiawatha Canal turnout is presently used to deliver the 1881 surface water right (37-657B) to the West 9 course. This water is delivered by gravity into a pond and then pumped into the irrigation system for the West 9. This 1881 water right also is authorized to support irrigation of landscaping in the 21 acre Village Green development area.

As discussed later in this report, all diversions at the turnouts and pump discharges into the irrigation system are monitored. Tailwater returns back into the Hiawatha Canal and pumping from the irrigation wells will be monitored as part of the transfer and mitigation plan.

Water Requirements

Historical water use on the existing golf courses is summarized in Table 2. Water use is measured continuously at the discharges of the pumping plants feeding the pressurized distribution systems. Records exist for the Irwin course for the period 2001 through 2007. Records exist for the West 9 only for 2007.

Based on analysis of air photos and discussions with TVC staff, AMEC developed estimates of the currently irrigated areas of turf and native grass on the existing golf courses. The authorized acreages associated with TVC water rights listed in Table 1 are provided in Table 3. Comparisons of the actual acreages and the water use records of Table 2 indicate that the average annual irrigation water use on the Irwin course is approximately 2.01 acre-feet/acre and that the dry year (2007) water use on Irwin and West 9 is approximately 2.14 acre-feet per acre.

Allen and Robison (2006) estimate the average irrigation requirements for turf grass at Hailey to be 2 acre-feet per acre. Comparing this to actual historical use indicates that irrigation water consumption at TVC is approximately equal to the average year turf requirement estimated by Allen and Robison. Accordingly, AMEC used the average irrigation ET at Hailey as the basis for estimating monthly irrigation water requirements of authorized irrigated areas at TVC.

Proposed Golf Course Addition

Overview

The Valley Club anticipates developing an additional 9-hole golf course on an adjacent parcel known as the Peregrine Ranch (this proposed course will be referred to herein as the “Peregrine 9”). Acquisition of this parcel and its associated water rights is

the subject of an agreement with the Ranch owner. A preliminary layout of the proposed Peregrine 9 is shown on Figure 2.

The water rights that are anticipated to be acquired with the Peregrine Ranch property include surface and ground water rights historically used for irrigation on or near the parcel. It is anticipated that the Peregrine 9 would have irrigation characteristics similar to the West 9 course, with similar soil treatments, turf types, and water application methods.

Water Rights

The Peregrine 9 water rights are also shown on Table 1. These water rights are presently designated for diversion at the Hiawatha Canal and for irrigation use, so no change in point of diversion or type of use will be necessary to support golf course irrigation. However, it will be necessary to adjust the authorized Place-of-Use (POU) designations of the Peregrine 9 rights so they coincide with the proposed layout of the new golf course. This change will be sought in a separate transfer application.

Water Requirements

Water requirements for the Peregrine 9 course are estimated using average ET requirements at Hailey (Allen and Robison, 2006) and the 99 authorized acres anticipated to result from the contemplated change in POU of the Peregrine rights. The distribution of these authorized acres between turf, native grasses and ponds is based on the present conceptual layout of the course. The details of this layout are likely to change somewhat as the course design is finalized. However, assumptions about acreages are conservative for the purpose of estimating water requirements.

Applying the average ET requirements to the turf and native grass areas, and applying a pond evaporation rate of 2.13 ft per pond acre (as is contained in water right 37-657B for the West 9) results in the water requirements for the Peregrine 9 course. Combined water requirements for the existing and proposed courses are shown in Table 4.

Anticipated Ground Water Use on Combined Golf Facilities

Overview

The anticipated ground water use for the combined (Irwin, West 9 and Peregrine 9) golf courses was estimated by applying available surface water supplies to the requirements determined in the preceding sections of this report. Ground water was then assumed to be used whenever surface water supplies were insufficient to meet irrigation requirements.

The resulting ground water pumping schedule was then input to an image-well analysis to estimate the net depletion to the Big Wood River from pumping under the junior priority ground water rights. The IDWR may at some point in the future require

that this depletion analysis be carried out using a formal ground water model, but such a model is not presently available.

Surface Water Availability

Surface water availability to meet irrigation water requirements was estimated from historical monthly Hiawatha Canal diversions for 2007. This year was chosen because it is the driest in recent memory. Based on records of priority cuts maintained by the District 37 watermaster, it is the driest year in the period 1990-2007 inclusive. Table 5 shows the monthly diversions of the Hiawatha Canal for 1988 through 2007.

Surface water available to TVC water rights was determined by first allocating monthly canal diversions among the water right priorities in the canal, allocating water first to the most senior right up to its full amount and then similarly with successively more junior rights. Water allocated to each priority was then distributed among users based on their relative ownership of that priority. The portfolio of rights in the canal and the distribution of those rights among canal users were obtained from the canal company. This information is contained in Appendix A.

The resulting surface water supply available to TVC water rights in 2007 is summarized in Table 6. Surface water supplies would be greater in wetter years, and ground water use would be less. Therefore the water supply analysis based on 2007 conditions is conservative.

Ground Water Use

Ground water use was estimated by subtracting surface water availability from estimated irrigation requirements for the combined golf courses. This calculation is also shown in Table 6. Even under the dry conditions of 2007, there would have been adequate surface water supply available at the Hiawatha Canal head-gate to meet combined TVC irrigation requirements in most months. Only in October would ground water pumping have been necessary to meet irrigation requirements.

Total annual ground water pumping required to meet combined irrigation needs under 2007 water supply conditions is estimated to be 16.8 acre-feet.

Pumping Depletion to Big Wood River

Depletions to the Big Wood River from ground water pumping for TVC were estimated using an image well analysis. This is a well-established analytical method for estimating surface/ground water interactions in alluvial systems when a more formal ground water model is not available.

The image well analysis was executed using a program called the Alluvial Water Accounting System (AWAS). This program was developed and is maintained by Integrated Decision Support Group at Colorado State University. The Colorado State Engineer and Colorado Water Courts routinely rely on this program for depletion analyses associated with augmentation plans to support out-of-priority ground water

pumping. Access to the program and its documentation is available at (URL). A summary of program documentation is provided in Appendix B.

The inputs to AWAS are the following:

- Monthly pumping amount
- Distance from pumped well to river
- Distance from pumped well to aquifer boundary
- Aquifer transmissivity
- Aquifer storativity

Pumping amount and distance parameters were derived from the foregoing water supply analysis and from air photos. The aquifer boundary was assumed to coincide with the edge of the valley floor, consistent with mapping contained in USGS Report 2007-5258 (2006).

Values for aquifer transmissivity (36,425 gpd/ft) and storativity (0.15) were adopted from the analysis done by Brockway Engineering in support of the Dry Lot LLC transfer submitted on March 21, 2008. As explained further below, the Dry Lot transfer and the transfer described in this report are parts of a coordinated effort by TVC and the Valley Club Owner's Association (the homeowner association of residents surrounding the Irwin course) to mitigate as and when necessary the depletive effects of their respective junior-priority ground water pumping. The two entities have entered into a preliminary understanding for development of joint recharge facilities to accomplish this mitigation.

A monthly depletion analysis was run for a sequence of 10 years. Each year was conservatively assumed to be a repeat of 2007 water supply and pumping conditions. The analysis showed that under this scenario pumping depletions to the Big Wood River would be near steady-state conditions within 3 years. The steady-state (year 10) results of the monthly depletion analysis using the AWAS program are summarized in Table 7 and 8 for the use of the Irwin well and Peregrine wells, respectively. Two independent evaluations were performed to conservatively estimate the highest level of river impact assuming each well site would pump all of the water needed to meet irrigation needs. Annual pumping depletion to the river is 16.8 acre-feet at steady state. The steady state results for both of these evaluations are shown on Figure 3.

It is this pattern of pumping depletions that is to be offset by the recharge of transferred surface water rights, as described in the following report sections.

Water Right Transfers to Support Recharge

Overview

The Valley Club proposes to transfer certain water rights, known as the “South County water rights” from the District Canal near Bellevue to the Hiawatha Canal and to its wells (existing and Peregrine). The transferred surface water rights would be delivered via the upper Valley Club turnout to infiltration basins where water would seep into the alluvial ground water system. TVC may develop these infiltration basins in cooperation with the Valley Club Owners Association (VCOA).

The recharge accomplished in these infiltration basins will accrue to the Big Wood River, offsetting the depletive effects of TVC’s junior-priority ground water pumping. This will allow the continued use of TVC wells in the event of conjunctive administration for more senior water rights.

South County Water Rights

The South County water rights that are the subject of this transfer application are shown on Table 9. These rights are presently diverted at the District Canal and serve lands in Sections 6 and 7, T1N, R19E. The presently authorized POU for these rights is shown in Figure 4. TVC proposes to transfer these surface water rights, via the application accompanying this report, to a new POD at the Hiawatha Canal and a new POU at the sites of the infiltration basins described above. It proposes to transfer the ground water right (37-2630) to the existing Valley Club well and to the Peregrine wells (as alternate points of diversion), where it will be used as a supplement to the existing ground water irrigation rights of TVC.

Cropping records show that the South County water rights being acquired by TVC have historically been used to irrigate 10 acres of alfalfa in rotation with barley or oats. These 10 acres, which are highlighted on Figure 4, will be dried up as part of this transfer and not further irrigated with the subject water rights. Based on estimates of ET for alfalfa by Allen and Robison (2006), irrigation under the subject rights historically consumed approximately 26 acre-feet of water per irrigation season.

TVC has assumed that to prevent injury to other water users under the District Canal, some portion of the South County surface water rights may be required to be left in the Canal and/or the Big Wood River. The precise quantities of these requirements have yet to be determined. For purposes of this analysis supporting this application, however, a combined reduction of no more than 30% has been assumed to cover these potential requirements as well as any other reductions in diversion rate and/or volume that might be imposed as a condition of transfer approval; in other words, TVC has assumed that at least 70% of the water right diversion rate and volume under the subject rights at the District Canal head-gate will be divertible at the Hiawatha Canal head-gate. These requested minimum divertible flows and volumes, which will be necessary to satisfactorily mitigate anticipated ground water depletions based on the accompanying hydrologic analysis, are provided in Table 10.

Transferable Yield

Water divertible at the District Canal head-gate under the subject rights was estimated from water right amounts and records of 2007 priority cuts obtained from the District 37 watermaster. Water was assumed to be divertible at the full water right amount on the days when the right was in priority. Yields were then tabulated on a monthly basis for use in subsequent analyses. Diversion rates derived from this analysis are shown in Table 10.

TVC seeks to transfer the rates shown on Table 10, less no more than a 30% allowance for reduction in divertible flow rate and volume. This results in the diversion rates and volumes shown in Table 10 for the subject water rights at the new POD.

The new POU of the transferred surface water rights will be the infiltration basins being planned by TVC and the VCOA. The locations of these basins are shown on Figure 1.

Transfer of ground water right 37-2630

As previously mentioned TVC proposes to transfer the ground water right (37-2630) to the existing Valley Club well and to the Peregrine Ranch wells (as alternate points of diversion). There it will be used as a supplement to the existing surface water irrigation rights of TVC and will not be applied to more than 10 acres within the presently authorized Places-of-Use of TVC surface water rights.

Historical monthly power consumption records from the Idaho Power Company from September 2005 to May 2008 were used to develop the preliminary estimate of historical pumping volumes shown in Table 11. These pumping volumes were estimated by dividing the power consumption (kWh) by a power consumption coefficient (PCC). This PCC coefficient was estimated assuming a linear regression correlation with total head developed by a USGS study on pumping rates and power consumption in the Snake River basin (USGS, 1999). The annual historical pumping volume was estimated on a preliminary basis to be 100.2 acre-feet/year with a total transferable yield of approximately 3.5 acre-feet/year. Additional power records and pump design details are being sought to verify this preliminary estimate.

Mitigation Plan

Overview

TVC's mitigation plan is designed to recharge surface water to offset the depletive effects on the Big Wood River from pumping its junior priority wells. Recharge will take place via infiltration basins located on TVC and/or VCOA property, in the vicinity of TVC ground water wells. Recharge water would be derived from the foregoing transfer of the South County water rights and delivered via existing TVC turnouts on the Hiawatha Canal. Return flows from the recharged water would accrue to the Big Wood River in a pattern that offsets the depletive effects on the river from TVC ground water pumping when those effect are occurring.

The design and construction of the infiltration basins currently is anticipated to be done jointly with the VCOA. Preliminary design and operating parameters for the basins are described in the report by Brockway Engineering accompanying the Dry Lot LLC transfer application submitted on March 21, 2008.

The two alternative infiltration basin locations are approximately 0.2 miles northeast and 0.3 miles southeast of the Valley Club well. Water would be supplied through the Hiawatha Canal pumping plant and delivered to the infiltration basins via existing and new pipelines. A minimum infiltration rate of 1.5 ft/day is estimated for the infiltration basins with at least 18 inches of select filter sand. Total infiltration rates are estimated at 0.91 acre-feet per day for each alternative with a wetted area of 0.6 acres. Each infiltration basin would be located at least 500 feet from any existing domestic wells.

Recharge Operation

The locations of the infiltration basins are shown on Figure 1. It is currently expected that the basins will be constructed jointly by TVC and the VCOA and in phases to accommodate mitigation of existing and future ground water pumping needs. But one recharge basin would be required to mitigate for TVC ground water diversions. It is possible that both basin locations will be needed to provide full future mitigation for TVC and the VCOA. The analysis examined recharge operation at each site. As the performance of the two sites is similar, only the results for the middle site (on TVC property) are presented in Table 10.

Recharge analysis was carried out on a monthly basis. The recharge water supply was assumed to be the transferable yield of the South County water rights estimated in the preceding section of this report. This recharge supply was applied at each infiltration basin site.

The pattern of water accrual to the Big Wood River from this recharge activity was estimated using the AWAS program, which was also used to estimate the pattern of river depletion from ground water pumping. Aquifer parameters (transmissivity, storativity and lateral extent) were the same as used in the pumping analysis. Distance parameters for the infiltration basins were derived from air photos. These parameters and the recharge water supply were input to the AWAS program. The program was run for a 10-year period, repeating the 2007 recharge operation each year. As with the pumping analysis, recharge reached near-steady-state conditions within 3 years. Accruals of recharged water to the Big Wood River in year 10 of the analysis are shown in Table 10 and on Figure 3. Annual accrual to the river is 40.6 acre-feet.

Reliability and Contingencies

Water diverted to recharge under this mitigation plan will be delivered through the Hiawatha Canal. The Hiawatha Canal is a long-established canal delivering water rights to its users for irrigation, and other purposes. The Hiawatha Canal is a reliable delivery system except in the most extreme low-water conditions, when only the most senior rights are distributed to the river headgate and conveyance losses affect the delivery of water over any great distance. TVC diversion from the Hiawatha Canal is

situated in the upper end of the system, however, and so this is not considered a significant constraint on the water supply reliability for mitigation. To the extent that this could become an issue due to extreme low-flow conditions in the Big Wood River, or if the Hiawatha headgate might be temporarily out of service (i.e., due to headgate repairs) and water could not be delivered to recharge when necessary to maintain adequate return flows to the Big Wood River to mitigate injury, TVC has a contingency plan by which it would reduce its irrigated acres by sequentially ceasing irrigation of native areas, rough, fairways, tees, etc., to cause pumping depletions and recharge accruals to balance.

Monitoring, Reporting and Adjustment

TVC has flow meters at both turnouts from the Hiawatha Canal that record the quantities of water diverted from the Hiawatha Canal. TVC also maintains records of the timing and quantity of water delivered to various segments of its golf courses. They measure flows on pump discharges into the sprinkler system as well as maintain a computerized irrigation control system that records flow rates out of each sprinkler head. This permits targeted application of water supplies to specific courses. TVC also will have flow meters that record the volume of water delivered to recharge basins and will monitor tail-water returns to the Hiawatha Canal.

TVC proposes to continue monitoring and recording its water diversion and deliveries to irrigation and other uses, including recharge. TVC proposes to maintain records of the tail-water returns, pumping from wells, total quantity of water recharged and ground water diverted to irrigation each year, and as appropriate, would seek implementation of a debit and credit accounting by IDWR for its mitigation activities under this plan.

Mitigation Analysis

Analysis of the efficacy of the foregoing recharge operation in mitigating the effects of junior-priority ground water pumping is done by comparing the depletive effect of pumping to the accretive effect of recharge. The arithmetic sum of these quantities gives the net depletion or accretion to the Big Wood River from the combination of pumping and recharge.

As shown on Tables 7 and 8 and on Figure 3, there is a net accretive effect of 23.7 acre-feet/year on the Big Wood River from the proposed operation. The net effect is an accretion during every month of the irrigation season (April – October) and for the storage season (November – March). This demonstrates that the recharge of the South County water rights successfully offsets ground water pumping under TVC's junior ground water rights, fully mitigating those pumping effects. As a result, there will be no injury to other water rights on the Big Wood River system from the proposed TVC golf course irrigation and groundwater recharge operation.

References

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USGS. 2006. *Water-Resource Trends and Comparisons Between Partial Development and October 2006 Hydrologic Conditions, Wood River Valley, South-Central Idaho*. Scientific Investigations Report 2007-5258.

Tables

Table 1 TVC Water Rights					
Water Right No.	Priority Date	Source	Diversion Rate (cfs)	Use	Notes
Existing - Irwin Course					
37-577BU	March 24, 1883	Big Wood River	1.2	Irrigation	The combined use of this water right with other water rights is limited to a maximum irrigation of 143.8 acres.
37-577BV	March 24, 1883	Big Wood River	1.56	Irrigation	The combined use of this water right with other water rights is limited by the following: maximum irrigation of 143.8 acres, 3.0 acre-feet per acre per, and combined diversion rate of 7.24 cfs.
			0.13	Recreation (offset pond evaporation)	
			0.69	Irrigation	
37-833K	March 24, 1883	Big Wood River	0.06	Recreation (offset pond evaporation)	The combined use of this water right with other water rights is limited by the following: maximum irrigation of 143.8 acres, 3.0 acre-feet per acre per year, and combined diversion rate of 7.24 cfs. Pursuant to a call in times of scarcity, this right is senior to all other rights that did not result from saved water in the Rockwell By-Pass.
37-494	May 1, 1886	Big Wood River	1.85	Irrigation	The combined use of this water right with other water rights is limited by the following: maximum irrigation of 143.8 acres, 3.0 acre feet per acre, and combined diversion rate of 7.24 cfs.
			0.15	Recreation (offset pond evaporation)	
37-495	July 1, 1892	Big Wood River	2.59	Irrigation	The combined use of this water right with other water rights is limited by the following: maximum irrigation of 143.8 acres, 3.0 acre-feet per acre per year, and combined diversion rate of 7.24 cfs.
			0.21	Recreation (offset pond evaporation)	
37-2623	Sept 3, 1959	Ground water	2.81	Irrigation	The combined use of this water right with other water rights is limited by the following: maximum irrigation of 143.8 acres and 3.0 acre-feet per acre per year.
			0.24	Recreation (offset pond evaporation)	
Existing - West 9 Course					
37-657B	May 1, 1881	Big Wood River	1.9	Irrigation	The combined use of this water right with all other rights shall provide no more than 0.02 cfs per acre nor more than 3.5 acre-feet per acre per year. Recreation and Aesthetic uses under

Table 1 TVC Water Rights

			0.12	Recreation and aesthetic (offset pond evaporation)	Right 37-657B authorize 13.4 acre-feet to be used for the replacement of losses caused by evaporation from the 6.3 acre total surface area of the ponds. This right is limited to the irrigation of 93.7 acres.
<i>Golf Course Addition - Peregrine 9 Course</i>					
37-20751	March 24, 1883	Big Wood River	0.13	Irrigation	The combined use of this water right with other water rights is limited by the following: 0.02 cfs per acre and 3.5 acre-feet per acre per year. Use of water under Right 37-20751 may be affected by an agreement between the protestant of Transfer 4823 and the right holder.
37-20431	June 1, 1886	Big Wood River	2.92	Irrigation	The combined use of this water right with other water rights is limited by the following: maximum irrigation of 143.8 acres, 3.5 acre-feet per acre per year, and combined diversion rate of 7.67 cfs.
37-20429	May 4, 1889	Big Wood River	2.55	Irrigation	The combined use of this water right with other water rights is limited by the following: maximum irrigation of 130.4 acres, 3.5 acre-feet per acre per year, and combined diversion rate of 7.67 cfs.
37-522D	May 4, 1889	Big Wood River	0.3	Irrigation	The combined use of this water right with other water rights is limited to a maximum irrigation of 18.8 acres.
37-20427	May 21, 1890	Big Wood River	2.2	Irrigation	The combined use of this water right with other water rights is limited by the following: maximum irrigation of 130.4 acres, 3.5 acre-feet per acre per year, and combined diversion rate of 7.67 cfs.
37-523C	May 21, 1890	Big Wood River	1.2	Irrigation	The combined use of this water right with other water rights is limited to a maximum irrigation of 18.8 acres.
37-2507A	January 5, 1950	Ground water	2.4	Irrigation	This right when combined with all other rights is limited to 0.02 cfs per acre and 3.5 acre-feet per acre per year.
37-21268	Sept 16, 1960	Ground water	1.21	Irrigation	

Table 2 Historical TVC Water Use (acre-feet/month)

Irwin Course									
Year	March	April	May	June	July	August	September	October	Total
2001	0.0	6.5	58.2	51.0	61.3	68.1	44.7	16.6	306.3
2002	0.0	0.1	38.3	37.8	66.2	64.2	39.6	10.7	256.9
2003	0.0	0.0	27.6	66.5	76.0	56.0	36.9	19.5	282.6
2004	0.0	20.5	34.4	61.7	55.3	60.5	35.0	17.7	285.2
2005	0.0	2.2	9.7	31.7	68.7	64.8	34.6	9.5	221.1
2006	0.0	0.0	30.5	52.0	70.5	66.4	32.5	4.3	256.2
2007	0.5	8.4	48.0	60.5	82.7	63.4	25.9	2.8	292.2
Average	0.1	5.4	35.2	51.6	68.7	63.3	35.6	11.6	271.5
West 9 Course									
2007	0.4	7.1	21.7	24.3	36.4	27.5	14.0	3.8	135.2

Table 3 Authorized Irrigated Area

Golf Course	POU Acres
Irwin	143.8
West 9	93.7
Peregrine 9	98.8
Total	336.3

Table 4 Water Requirements of Authorized Irrigated Acres for Irwin, West 9, and Peregrine 9 Courses

Cover Type	Monthly Water Requirements (acre-feet/month)								Total (acre-feet/year)
	March	April	May	June	July	August	Sep-tember	October	
Lawn Turf ¹	0.0	11.4	50.5	97.7	135.4	112.2	65.0	15.0	487.1
Native (short-season grass) ¹	0.0	2.7	14.4	7.7	3.4	2.8	0.8	0.0	31.8
Pond Evaporation ²	0.0	0.5	2.3	4.5	6.1	5.0	3.0	0.7	22.1
Total	0.0	14.6	67.2	109.9	144.9	120.0	68.8	15.7	541.1
Required Monthly Diversions³	0.0	15.7	72.2	118.2	155.8	129.0	74.0	16.8	581.8

¹ ET estimates obtained from Allen and Robison (2006)

² For the proposed 10.1 acres of ponds on Peregrine 9. The evaporation was assumed to be 2.13 feet as in 37-657B. Evaporation for ponds on the Irwin and West 9 courses are specifically offset by non-irrigation water rights on those courses (See Table 1).

³ Assumes 7% losses

Table 5 Monthly Hiawatha Canal Diversions for 2007

Year	Monthly Diversion (acre-feet/month)						Annual Total (acre-feet/year)
	April	May	June	July	August	September	
1988	659	3,015	3,733	1,775	413	421	10,015
1989	83	1,571	2,854	1,866	1,956	1,527	9,858
1990	119	2,144	2,940	2,053	1,674	1,210	10,140
1991	0	829	3,047	2,955	1,843	1,863	10,536
1992	127	2,775	2,446	1,289	137	188	6,962
1993	0	1,694	2,852	2,434	1,920	1,851	10,751
1994	0	2,650	2,922	661	186	202	6,621
1995	0	988	2,057	2,854	2,785	2,049	10,733
1996	0	403	3,606	4,427	2,233	2,301	12,970
1997	0	1,301	2,725	1,714	1,851	2,255	9,846
1998	0	553	2,204	2,033	1,448	2,709	8,948
1999	0	651	1,745	2,719	2,176	1,962	9,253
2000	0	1,242	2,160	1,178	692	1,125	6,397
2001	208	1,658	1,791	1,313	595	510	6,075
2002	58	1,240	1,351	1,494	936	895	5,972
2003	0	817	1,430	1,740	1,226	908	6,121
2004	329	2,093	2,168	1,686	1,252	655	8,182
2005	0	712	1,609	1,763	1,139	1,002	6,224
2006	0	1,940	2,249	2,533	2,283	1,811	10,816
2007	536	1,795	1,166	760	270 ¹	639	5,165
Average	106	1,503	2,353	1,962	1,408	1,304	8,579

Source: Personal Communication with Kevin Lakey (Watermaster for Water districts 37 and 37M), Nov 2007

¹ Low flows in August were attributed to ditch maintenance issues from Aug 10 -24 and Aug 23 - 19th.

Table 6 Surface Water Availability and Ground Water Use

Month	Surface Water Availability (acre-feet/month)	Estimated Irrigation Requirements (acre-feet/month)	2007 Ground Water Use (acre-feet/month)
March	0.0	0*	0.0
April	186.3	15.7	0.0
May	337.0	72.2	0.0
June	268.1	118.2	0.0
July	224.1	155.8	0.0
August	184.7	129.0	0.0
September	201.1	74.0	0.0
October	0.0	16.8	16.8
Total	1,401	581.8	16.8

* Historically TVC has not irrigated in March and irrigation requirements are assumed to be zero.

Impact to Big Wood River (acre-ft/month)

¹ River impacts were evaluated independently for the Irwin and Peregrine wells. The Irwin well evaluation assumed the Irwin well provided all needed water supplies whereas the evaluation using the Peregrine wells assumed all water supplies would be pumped from the Peregrine wells and not the Irwin well.

² Negative values indicate depletions to the river

Table 8 Estimated River Impacts From the Peregrine 9 Wells¹

Impact to Big Wood River (acre-ft/month)													Annual Total (acre- feet/year)
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Estimated Pumping Depletions ²													
2007	0	0	0	0	0	0	0	0	0	-0.1	-1.1	-1.54	-2.74
2008	-1.38	-1.21	-1.08	-0.97	-0.88	-0.79	-0.72	-0.65	-0.59	-0.64	-1.59	-1.99	-12.49
2009	-1.78	-1.58	-1.41	-1.27	-1.15	-1.04	-0.94	-0.86	-0.78	-0.81	-1.74	-2.13	-15.49
2010	-1.91	-1.69	-1.51	-1.36	-1.23	-1.12	-1.01	-0.92	-0.84	-0.86	-1.79	-2.17	-16.41
2011	-1.95	-1.73	-1.54	-1.39	-1.26	-1.14	-1.04	-0.94	-0.85	-0.88	-1.8	-2.18	-16.7
2012	-1.96	-1.74	-1.55	-1.4	-1.27	-1.15	-1.04	-0.95	-0.86	-0.88	-1.81	-2.19	-16.8
2013	-1.96	-1.74	-1.56	-1.41	-1.27	-1.15	-1.05	-0.95	-0.86	-0.88	-1.81	-2.19	-16.83
2014	-1.96	-1.74	-1.56	-1.41	-1.27	-1.15	-1.05	-0.95	-0.86	-0.88	-1.81	-2.19	-16.83
2015	-1.97	-1.74	-1.56	-1.41	-1.27	-1.15	-1.05	-0.95	-0.86	-0.88	-1.81	-2.19	-16.84
2016	-1.97	-1.74	-1.56	-1.41	-1.27	-1.15	-1.05	-0.95	-0.86	-0.88	-1.81	-2.19	-16.84
Recharge From the Middle Recharge Pond													
2007	0	0	0	0.01	0.18	0.68	1.37	1.97	2.29	2.36	2.28	2.15	13.29
2008	2.01	1.87	1.74	1.62	1.67	2.06	2.65	3.15	3.38	3.38	3.22	3.02	29.77
2009	2.82	2.62	2.43	2.26	2.26	2.61	3.16	3.62	3.82	3.78	3.59	3.37	36.34
2010	3.14	2.91	2.7	2.51	2.49	2.82	3.36	3.81	3.99	3.94	3.74	3.5	38.91
2011	3.26	3.03	2.81	2.61	2.58	2.91	3.44	3.88	4.06	4	3.8	3.56	39.94
2012	3.31	3.08	2.85	2.65	2.62	2.94	3.47	3.91	4.08	4.02	3.82	3.58	40.33
2013	3.33	3.09	2.87	2.66	2.64	2.95	3.48	3.92	4.1	4.03	3.83	3.59	40.49
2014	3.34	3.1	2.87	2.67	2.64	2.96	3.48	3.93	4.1	4.04	3.83	3.59	40.55
2015	3.34	3.1	2.88	2.67	2.64	2.96	3.49	3.93	4.1	4.04	3.84	3.59	40.58
2016	3.34	3.1	2.88	2.67	2.64	2.96	3.49	3.93	4.1	4.04	3.84	3.59	40.58
Net Impacts													
2007	0	0	0	0.01	0.18	0.68	1.37	1.97	2.29	2.26	1.18	0.61	10.55
2008	0.63	0.66	0.66	0.65	0.79	1.27	1.93	2.5	2.79	2.74	1.63	1.03	17.28
2009	1.04	1.04	1.02	0.99	1.11	1.57	2.22	2.76	3.04	2.97	1.85	1.24	20.85
2010	1.23	1.22	1.19	1.15	1.26	1.7	2.35	2.89	3.15	3.08	1.95	1.33	22.5
2011	1.31	1.3	1.27	1.22	1.32	1.77	2.4	2.94	3.21	3.12	2	1.38	23.24
2012	1.35	1.34	1.3	1.25	1.35	1.79	2.43	2.96	3.22	3.14	2.01	1.39	23.53
2013	1.37	1.35	1.31	1.25	1.37	1.8	2.43	2.97	3.24	3.15	2.02	1.4	23.66
2014	1.38	1.36	1.31	1.26	1.37	1.81	2.43	2.98	3.24	3.16	2.02	1.4	23.72
2015	1.37	1.36	1.32	1.26	1.37	1.81	2.44	2.98	3.24	3.16	2.03	1.4	23.74
2016	1.37	1.36	1.32	1.26	1.37	1.81	2.44	2.98	3.24	3.16	2.03	1.4	23.74

¹ River impacts were evaluated independently for the Irwin and Peregrine wells. The Irwin well evaluation assumed the Irwin well provided all needed water supplies whereas the evaluation using the Peregrine wells assumed all water supplies would be pumped from the Peregrine wells and not the Irwin well.

² Negative values indicate depletions to the river

Table 9 South County Water Rights

Water Right No.	Priority Date	Source	Diversion Rate (cfs)	Existing Use	Notes
37-481C	August 1, 1882	Big Wood River	3.014	Irrigation	
37-557BT	March 24, 1883	Big Wood River	2.2	Irrigation	The combined use of this water right with other water rights is limited to a maximum irrigation of 289 acres.
37-482H	August 1, 1884	Big Wood River	3.012	Irrigation	The combined use of this water right with other water rights is limited to a maximum irrigation of 289 acres.
37-483C	August 1, 1902	Big Wood River	15.086	Irrigation	The combined use of this water right with other water rights is limited to a maximum irrigation of 289 acres.
37-263O	February 2, 1960	Ground water	3.75	Irrigation	

Table 10 Divertible Yields at the District Headgate and Hiawatha Canal Headgate

Water Right	Divertible Flows at the District Canal Headgate (cfs)	Divertible Flows at Hiawatha Canal Headgate (cfs)¹	Divertible Volumes at the Hiawatha Canal Headgate (acre-feet/year)
37-481C	0.104	0.073	20.1
37-577BT	0.076	0.053	10.7
37-482H	0.104	0.073	13.5
37-483C	0.522	0.365	60.2
37-2630 ²	0.130	0.091	3.5
Total	0.936	0.655	107.9

¹ Assumes 30% allowance for reduction in divertible flow rate and volume between present POU and Hiawatha Canal headgate

² This is a ground water right which is proposed to be transferred to the Peregrine Ranch wells and the Valley Club well (as alternate points of diversion) and used for supplemental irrigation

Table 11 Preliminary Estimated Pumping Volume for South County Water Right 37-2630¹

Month	Power (kWh)	Estimated Historical Pumping Volume (acre-feet/month)^{2,3,4}	Transferable Pumping Volume (acre-feet/month)⁵
January	0	0.0	0.0
February	0	0.0	0.0
March	0	0.0	0.0
April	0	0.0	0.0
May	80	1.3	0.0
June	1280	21.1	0.7
July	960	15.8	0.5
August	2480	40.9	1.4
September	1120	18.5	0.6
October	160	2.6	0.1
November	0	0.0	0.0
December	0	0.0	0.0
Total (acre-feet/year)	6,080	100.2	3.5

¹ Maximum meter readings taken from June 2000 to February 2003

² Assumes a PCC coefficient of 60.7. $PCC = 1.682 * (\text{total head}) - 23.41$ (Source: USGS, 1999)

³ Estimated pumping volume = power/PPC

⁴ Assume total head of 50 feet

⁵ 10/289^{ths} interest in water right



**The Valley Club
Figure 1
Location of Key Features**



amec

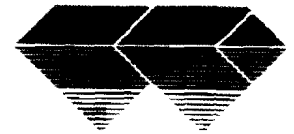




December 5, 2008

Jeff Cooper
Sr. Water Resources Agent
IDWR – Southern Region
1341 Fillmore Street – Suite 200
Twin Falls, ID 83301

Fax 208-736-3033
e mail Jeff.Cooper@idwr.idaho.gov



**Mountain
West Bank**

331 Leadville Ave.
P.O. Box 2237
Ketchum, ID 83840
(208) 622-1639
Fax (208) 622-6610

Re: Consent to Transfer water rights for South County Estates, LLC for transfer numbers
37-2630, 37-483C, 37-482H, 37-577BT, 37-481C

Dear Jeff,

The undersigned hereby consents to the transfer of the above referenced water rights.

Mountain West Bank

By: Kate Chaney
Its: Vice Pres.

STATE OF IDAHO)
) ss.
County of Blaine)

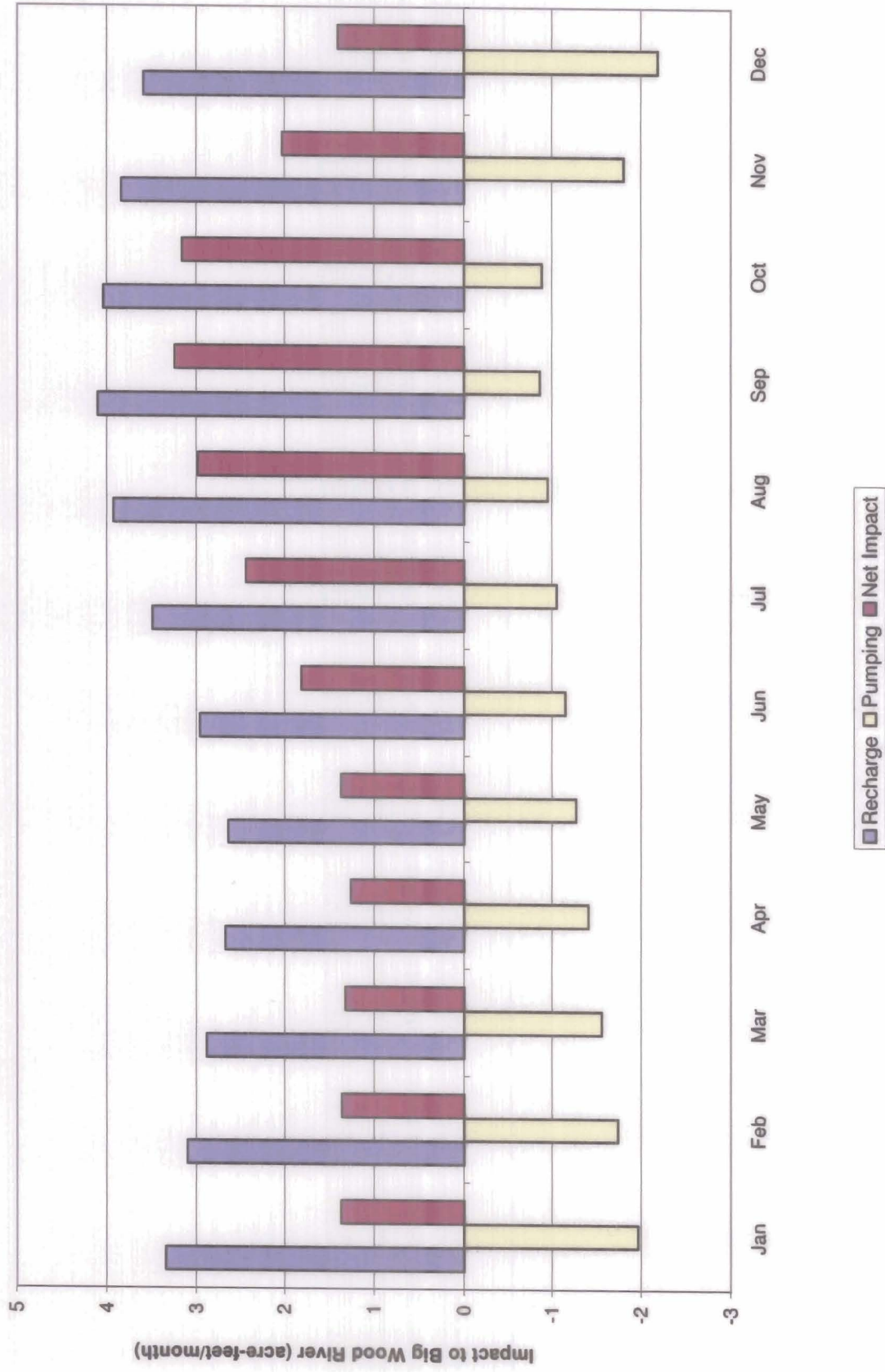
On this 5 day of DECEMBER, 2008, before me,
KAREN E. McNARY, a Notary Public in and for said State, personally
appeared KATE CHANEY, known or identified to me to be the
VICE PRESIDENT of MOUNTAIN WEST BANK, the banking association
that executed the within instrument or the person who executed the instrument on behalf
of said association and acknowledged to me that such association executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official
seal the day and year in this certificate first above written.

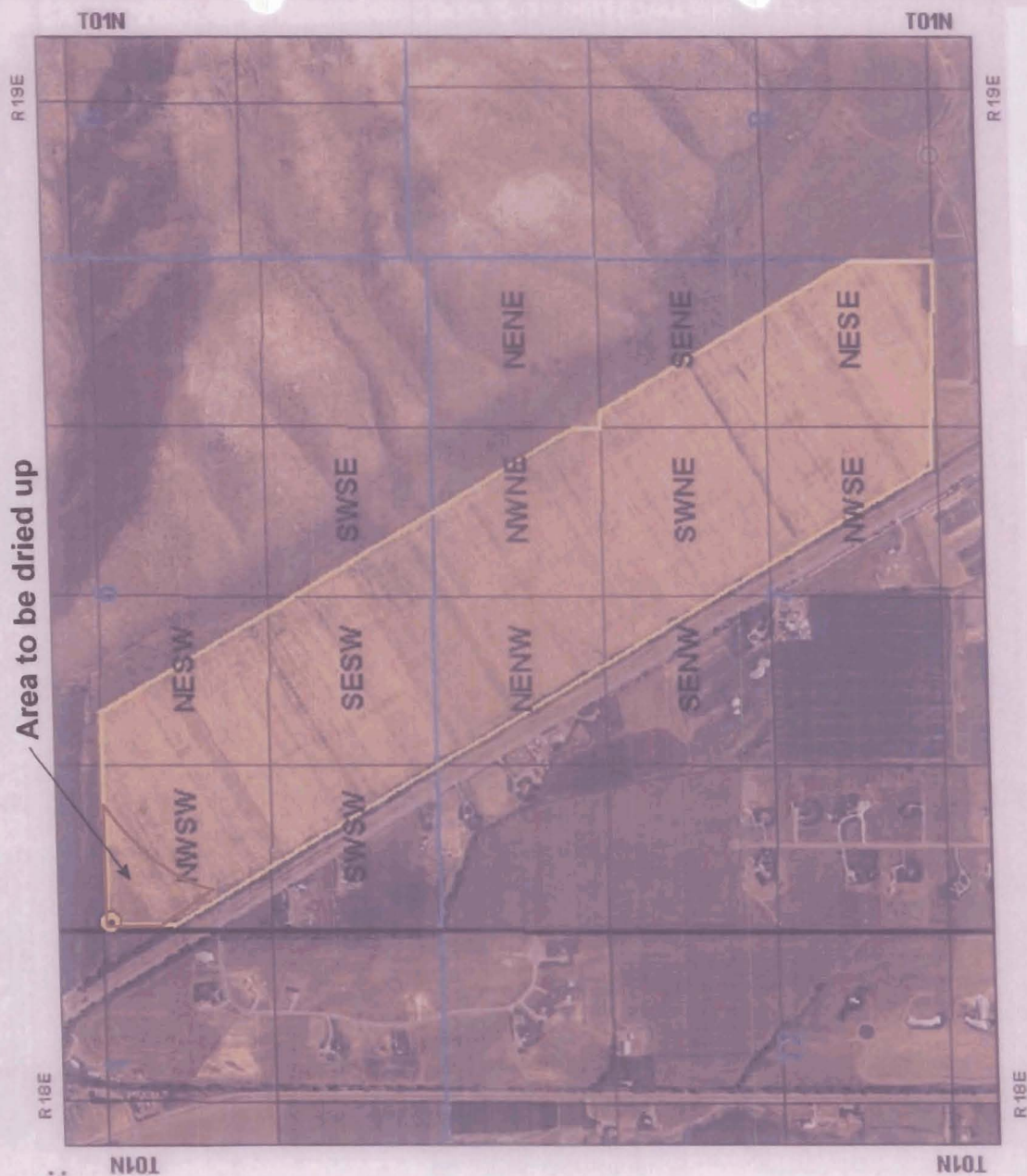


Karen E. McNary
Notary Public for IDAHO
Residing at HAILEY, ID
My commission expires 9-28-10

Figure 3: Steady-State Effects of TVC Mitigation Plan on Big Wood River

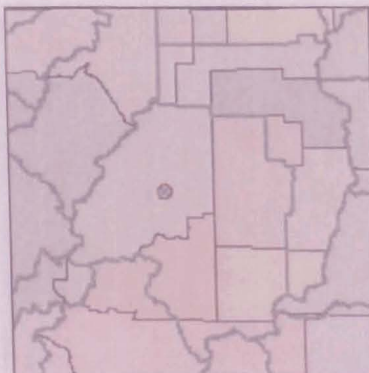
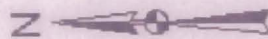


Idaho Department of Water Resources



Legend

- Point of Diversion
- Place of Use
- Townships
- PLS Sections
- Quarter Quarters



Blaine County
IDWR Basin 37

1 Miles

0.5

0

Figure 4: South County Place of Use

Prepared by N. Erickson
On Friday, November 24, 2006
2004 Aerial Photography

APPENDIX A
HIAWATHA USERS AND OWNERSHIP

April 1, 2003 HIAWATHA CANAL #22

ABOVE MAGIC

PRIORITY NO.	ST WATER RIGHT NO	DECREED TO	DATE OF DECREE	INCHES	TOTAL CFS	TOTAL
JD = 348.20	4-A	37-0657	ANN TROEGER	05/01/1881	140.00	2.80
	19-B	37-0028	ALTURAS WATER CO	03/24/1883	92.21	1.84
	19-A	37-0577	* W T RILEY	03/24/1883	902.75	18.06
	19-C	37-0024	MARTIN ALBERTHESON	03/24/1883	160.00	3.20
	19-D	37-0004A	WILLIAM ABBOTT	03/24/1883	60.30	1.21
	29-A2	37-0334	ADAM INFLAND	06/30/1884	100.00	2.00
	48-B1	37-0298	S G HAMLETT	09/18/1885	50.00	1.00
	51-B5-B6	37-0521	ISRAEL T OSBORN	06/01/1886	223.73	4.47
	55-B	37-0297	HAILEY WATER & POWER	11/26/1886	197.63	3.95
	55-A	37-0402	HAROLD & ART LAKE	11/26/1886	200.00	4.00
JD = 707.00	66-A	37-0183	PHILLIP DITTOE	05/01/1888	210.00	4.20
	74-B	37-0648A	SOUTHERLAND & WEBER	04/30/1889	150.00	3.00
	75-A	37-0522	ISRAEL T OSBORN	05/04/1889	210.51	4.21
	81-A	37-0523	ISRAEL T OSBORN	05/21/1890	226.39	4.53
	49-A	37-0494	JACOB MIZER	05/01/1886	100.00	2.00
	89-B	37-0495	JACOB MIZER	07/01/1892	140.00	2.80
	750-ROCK	37-0833	ROCKWELL-BY-PASS	11/12/1936	37.50	0.75
	W T DRAKE	J D SPRING CR NOT DELIVERABLE 26.96 CFS			3201.02	64.02
	ANNIE MILLER					
JD = 143.00						
JD = 150.00						
JD TOTAL 1,348.2						
PERMIT 37-8819	37-0577	W T RILEY	JOHN MILEY GW	1.50	0.03	
PERMIT 37-8820	37-0577	W T RILEY	ROD THORNTON GW	1.50	0.03	
PERMIT 37-8821	37-0577	W T RILEY	BLAINE CTY SCHOOL GW	40.00	0.80	
PERMIT 37-8587	37-0577	W T RILEY	GREGG STURTEVANT GW	4.00	0.08	
	37-20400	WILLIAM ABBOTT	ED O GARA GW	3.00	0.06	
PERMIT 37-8821	37-0577	W T RILEY	LOSS TO RIVER	13.00	0.26	
RELINQUISHED	37-0521	ISAREL T OSBORN	RAY JEFFERSON	10.00	0.20	
RELINQUISHED	37-0522	ISAREL T OSBORN	RAY JEFFERSON	10.00	0.20	
RELINQUISHED	37-0523	ISAREL T OSBORN	RAY JEFFERSON	10.00	0.20	
TR # 68560	37-0004	WILLIAM ABBOTT	LOSS TO RIVER	2.50	0.05	
TR # 68525	37-0004	WILLIAM ABBOTT	LOSS TO RIVER	4.10	0.08	
TR # 66101	37-0004	WILLIAM ABBOTT	LOSS TO RIVER	3.50	0.07	
TR # 69165	37-0004	WILLIAM ABBOTT	LOSS TO RIVER	11.00	0.22	
				114.10	2.06	

APPENDIX B
DEPLETION PROGRAM AND SUMMARY

IDS AWAS

Alluvial Water Accounting System

Version 1.2.16

Integrated Decision Support Group

"Visualizing Engineering and Management Solutions"

www.ids.colostate.edu



User Manual

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i) About this document

This user manual describes the *Integrated Decision Support Alluvial Water Accounting System (IDS AWAS)*. IDS AWAS is a program developed to calculate stream accretions and depletions based on recharge and consumptive use data.

ii) Participation

This project was created in order to meet the needs of as many water users as possible. In order to develop a consensus on the data and modeling needs of the water users in the South Platte Basin in particular an advisory committee was formed. The committee is comprised of representatives from:

- Northern Colorado Water Conservancy District (NCWCD)
- South Platte Lower River Group, Inc. (SPLRG)
- Colorado State Engineers Office (SEO)
- Groundwater Appropriators of the South Platte (GASP)
- Central Colorado Water Conservancy District (CCWCD)
- Lower South Platte Water Conservancy District (LSPWCD)
- Colorado Water Resources Research Institute (CWRRI)

IDS AWAS, described in this manual, is part of the South Platte water management research being worked on by the Integrated Decision Support (IDS) Group, a research group at Colorado State University.

iii) Information contacts

For information about IDS AWAS contact:

Jon Altenhofen - NCWCD
Northern Colorado Water Conservancy District
220 Water Avenue
Berthoud, CO 80513
Phone: (970) 667-2437
Fax: (970) 669-1143
E-mail: jaltenhofen@ncwcd.org

For information about IDS contact:

Luis Garcia -- Integrated Decision Support (IDS) Group
Civil Engineering Department
Colorado State University
Fort Collins, Colorado 80523-1372 USA
Phone: (970) 491-5144
Fax: (970) 491-7626
E-mail: garcia@engr.colostate.edu

v) Installing the IDS AWAS software

1. Copy the setup file into a directory on your machine.
2. Using Windows Explorer double click on the setup zip file. If you have a zip file reader like Winzip, it will open the file.
3. When the files appear in the browser window select the Install button in Winzip or extract the files into a temporary directory and double-click setup.exe

4. Follow the instructions provided in the setup routine.

History of the IDS AWAS Program

The *Integrated Decision Support Alluvial Water Accounting System (IDS AWAS)* was developed in 2003 by the Integrated Decision Support System at Colorado State University in response to requests of the South Platte Advisory Committee for a water accounting tool that could calculate accurately at shorter (daily) time-steps. *IDS AWAS* is based in part upon the *Analytical Stream Depletion Model* of the Office of the State Engineer, Colorado Division of Water Resources.

The *Analytical Stream Depletion Model* was developed by Dewayne R. Schroeder in 1987 to compute stream depletion or accretion caused by a well pumping from or recharging to an aquifer hydraulically connected to the stream. Of particular convenience was the program's ability to output hydrographic data at time-steps specified by the user. Such functionality is significant in analyzing wells and/or recharge facilities located relatively close to the live stream channel (<1.0 miles). The *Analytical Stream Depletion Model* could compute depletion to a stream of infinite length or to a segment of the stream. Pumping could be input at a constant or a variable rate. Options included the ability to simulate impermeable (no flow) boundaries parallel or perpendicular to the stream. Stream depletion was solved using analytical equations described by Glover (Glover 1977) and others. The source code was written in BASIC and did not contain any color or graphics commands.

IDS AWAS is written in C++. The development and user platform is a PC running Windows 95/98/NT.

1.0 Creating a New Input File

Required input information for *IDS AWAS* is irrigated consumptive use from well water or net recharge amounts and aquifer parameters or SDF values for irrigation wells or recharge basins. This section describes how to create an input file for the *IDS AWAS* program, which then computes depletions or accretions to the river.

Input can be created as a new file, created in the *IDSCU* Model and imported, or imported from a previous SDF input format. This section will describe the steps needed to create a new *IDS AWAS* input file. Another approach to making an *IDS AWAS* input file is to modify an existing file.

See the Following Topics:

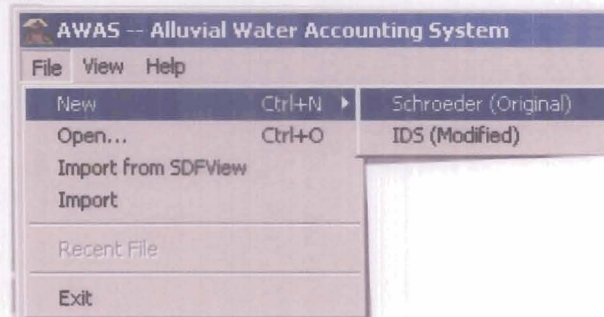
- 1.1 Creating and Saving an Original *IDS AWAS* Input File p.2
- 1.2 Creating and Saving a Modified *IDS AWAS* Input File p.5
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1.1 Creating and Saving an Original IDS AWAS Input File

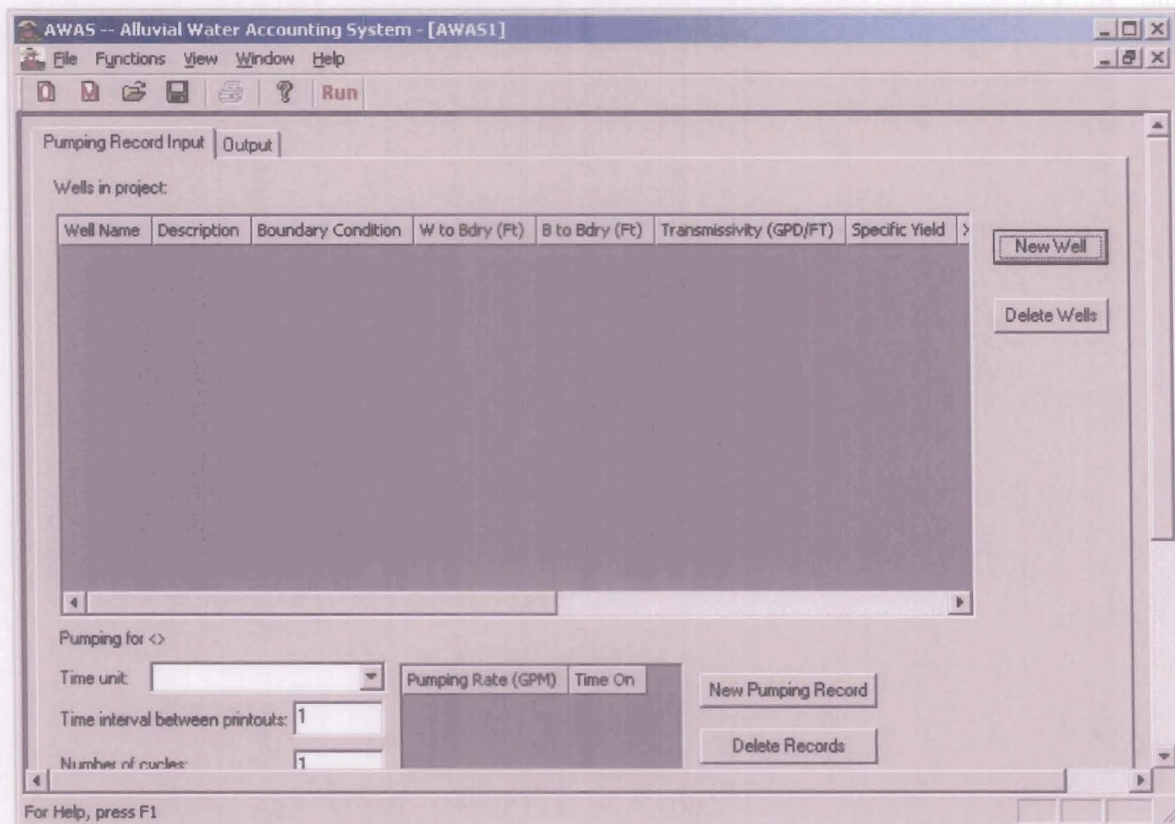
The **Original** mode of *IDS AWAS* is based directly upon The *Analytical Stream Depletion Model* developed by Dewayne R. Schroeder in 1987.

The *Analytical Stream Depletion Model* computes stream depletion or accretion caused by a well pumping from or recharging to an aquifer hydraulically connected to the stream. Of particular convenience is the ability to output hydrographic data at time-steps specified by the user. Such functionality is significant in analyzing wells and/or recharge facilities located relatively close to the live stream channel (<1.0 miles).

1. To access the **Original** mode of *IDS AWAS* click on the  icon or select File>New>Original from the File pull-down menu.



2. The main screen for the Original mode will appear.



3. The top of the window will have two tabs: **Pumping Record Input** and **Output**. To input data, make sure the **Pumping Record Input** tab is active.
4. Click on the **New Well** button.
5. In the Wells in project box, type in a **Well Name**. You may also type in a **Description** of the well if you wish.
6. From the pull-down menu, choose a **Boundary Condition**.



- **Infinite Aquifer** is a semi-infinite aquifer bounded only by a stream (see Infinite Aquifer p. 16).
 - **Alluvial Aquifer** is an aquifer bounded by a stream and a parallel impermeable boundary (see Alluvial Aquifer p. 17).
 - **No Flow** represents an aquifer bounded by a stream and an impermeable boundary perpendicular to the stream (see No Flow Aquifer p. 18).
 - **Effective SDF** means that the boundary effects are approximated by using an effective stream depletion factor (see Effective SDF p.19).
7. Once you have selected a boundary condition, input columns that are unnecessary to the equation(s) are grayed out. Input data in the active (white) columns.

Wells in project:

Boundary Condition	W to Bdry (Ft)	B to Bdry (Ft)	Transmissivity (GPD/FT)	Specific Yield	X to Well (Ft)	SDF	Use Partial Stream	Le
Effective SDF	0	0	0	0	0	0	☐	0

8. In the Pumping Records for Sample Well area select:
 - a **time unit** for the duration of the pumping record, ie. 100 gallons per week
 - a **time interval** between printouts (ie. if you specify 10 as your time interval, you will get a printout every ten weeks, days, months, or years, depending on your selected time unit)
 - the **number of cycles** (ie. 5 pumping records and 3 cycles will yield a total of 15 pumping records in your output)

Pumping records for Sample Well 1

Time unit:

Time interval between printouts:

Number of cycles:

9. Put in your **pumping rate** in gallons per minute and indicate a period of **time for the pumping rate**

to be on. For instance, if you put in 100 GPM as your pumping and 3 under "Time On" and your time unit is weeks, you will be pumping 100 GPM for three weeks of each cycle.

Pumping Rate (GPM)	Time On
100	3

10. Add **New Pumping Records** or **Delete Records** as needed.

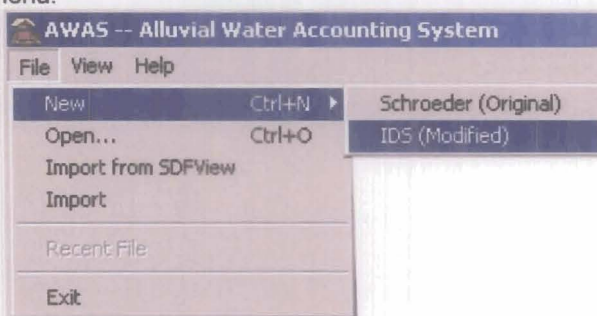
New Pumping Record
Delete Records

11. Click on the **Run** button. The program will ask if you would like to save your work. Save your work under the name and file you choose. The Results Screen will appear. See Output of an Original IDS AWAS File.

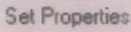
1.2 Creating and Saving a Modified IDS AWAS Input File

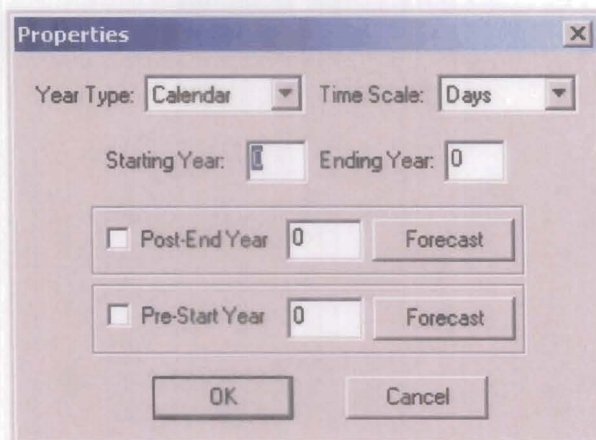
The **Modified** mode of *IDS AWAS* combines all the functionality of the *SDFView Model*, developed by the Integrated Decision Support (IDS) Group at Colorado State University, combined with Dewayne R. Schroeder's *Analytical Stream Depletion Model*. The source code is C++ and has color and graphic capabilities.

1. To access the **Modified** mode of *IDS AWAS* click on the  icon or select File>New>Modified from the File pull-down menu.



2. The Properties pop up window will appear.

Note: If you click Cancel on the Properties Pop-up window, you will have to enter properties on the main Modified IDS AWAS Input Screen by clicking on the  button.



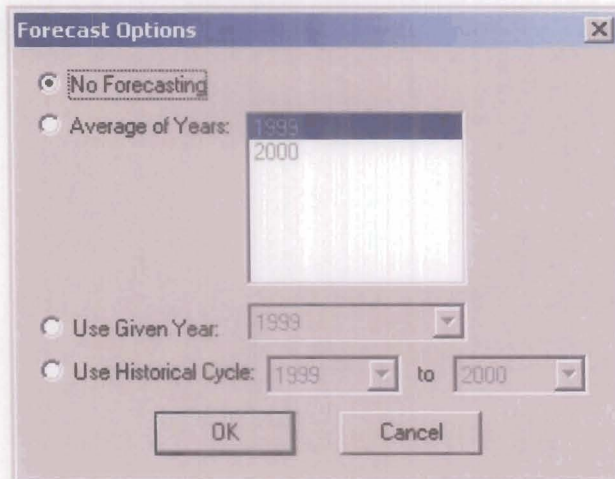
3. Choose one of three different **Year Types**.
 - **Calendar Year** - (January - December)
 - **Irrigation Year** - (November - October)
 - **USGS Year** - (October - September)

Irrigation and USGS year types begin in the previous year, for example irrigation year 1992 starts in November, 1991 and ends in October, 1992. This means that if you change the year type from irrigation year to calendar year, an additional year needs to be added to the beginning of the series to show November and December of the first year. It also means that the last year in the series is not complete because there is no data for November and December of the last year. The data for any months added because of a year type change are symbolized with hyphens (i.e. "-").

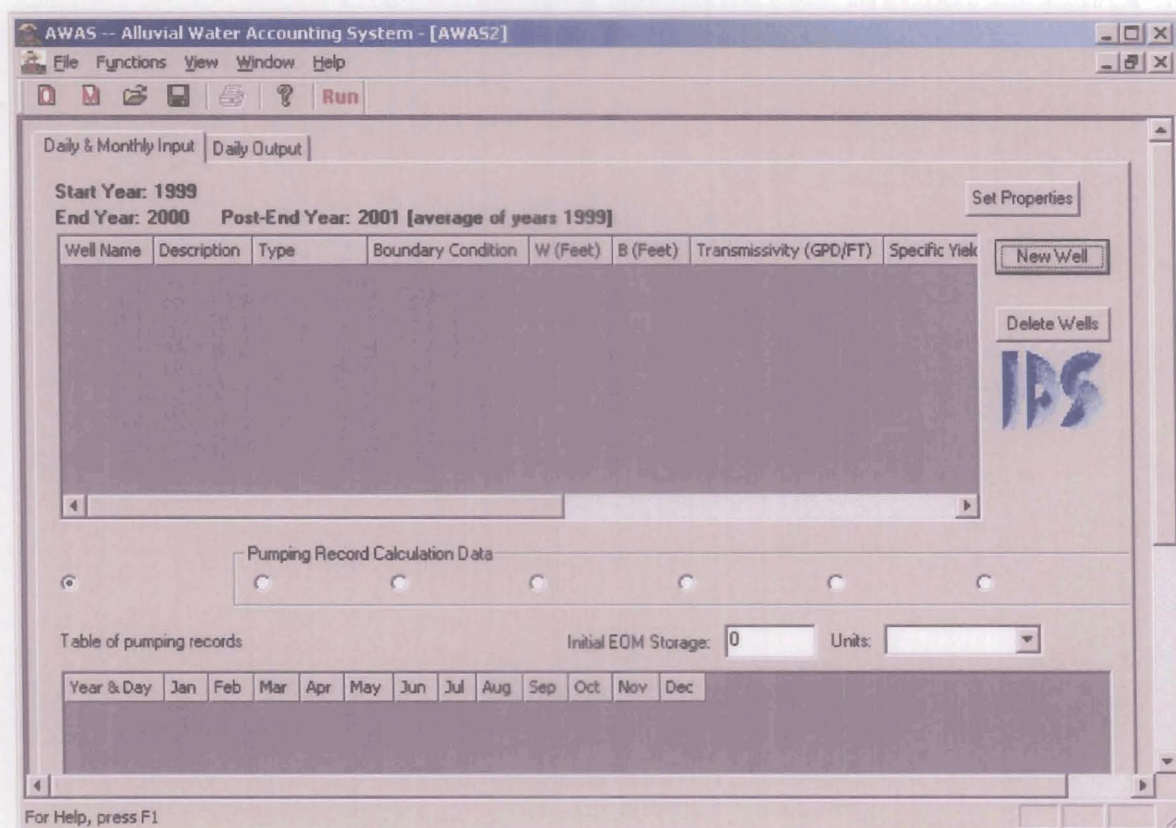
4. Choose **Days** or **Months** as your **Time Unit** from the pull-down list.



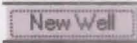
5. Choose a **Starting** and **Ending Year**
6. If you want to generate future scenarios based on historical data, enter a year in the **Forecast To Year** text box and click on **Forecast**, and a pop-up will appear from which you can select forecast options.



- **No Forecasting** will leave all input uninitialized (zero).
 - **Average of Years** will base a forecast on the average of any span of years you select.
 - **Use Given Year** will base a forecast on a year which you select from the pull-down list of years..
 - **Use Historical Cycle** will base a forecast on a repetition of years which you select.
7. Click **OK**.
 8. The main screen for the **Modified** mode will appear.



9. The top of the window will have two tabs, **Daily & Monthly Input** and **Daily Output**. To input data, make sure the **Daily & Monthly Input** tab is active.

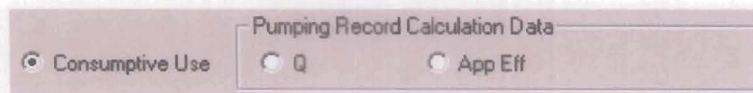
10. Create a new well by selecting 

Well Name	Description	Type	Boundary Condition	W (Feet)	B (Feet)	Transmissivity (GPD/FT)	Specific Yield
Well A		Irrigation	Infinite Aquifer	0	0	0	0

- Type in a **Well Name** and a **Description** you would like to add.
- Choose a **Type** from the pull down--Irrigation or Recharge.
- Using the pull-down menu for **Boundary Condition** specify whether you want the calculations to be based on equations for Effective SDF, Infinite Aquifer, Alluvial Aquifer, or No Flow Aquifer.
- Depending on the choices you make for Type and Boundary Condition, different columns in the dialogue box will require input. Columns which require input are in white. The dialogue box below shows columns requiring input when Effective SDF is selected for an Irrigation Well.

Boundary Condition	W (Feet)	B (Feet)	Transmissivity (GPD/FT)	Specific Yield	X (Feet)	SDF	Use Partial Stream
Effective SDF	0	0	0	0	0	0	

11. Radio buttons will appear below the dialogue box depending on whether the site is a recharge site or an irrigation well.



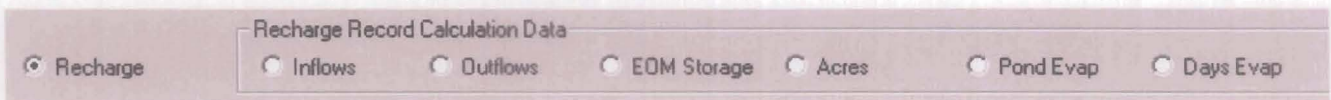
Radio buttons which appear when you select irrigation are:

- Consumptive Use: the amount of depletion charged to the well.
- Q: Flow rate of the well.
- App. Efficiency: the application efficiency of the well.

If Q and App. Efficiency are provided, then the consumptive use will be calculated by multiplying Q by App. Efficiency.

Radio buttons which appear when you select recharge are:

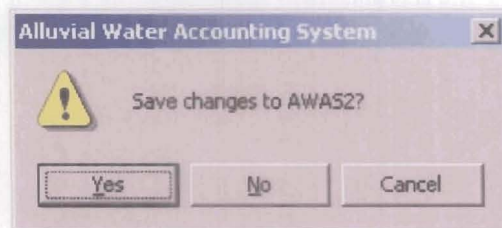
- Recharge: the amount of recharge credited to the well.
- Inflows: the amount of inflow to the recharge pond in acre-feet.
- Outflows: the amount of outflow from the recharge pond in acre-feet.
- EOM Storage: end of month storage for the recharge pond in acre-feet.
- Acres: the surface area of the pond in acres.
- Pond Evap: daily evaporation rate of the pond in inches.
- Days Evap: the number of days where evaporation took place.



The amount of recharge is calculated by:

$\text{flow} = \text{inflow} - \text{outflow} - (\text{EOM} - \text{initial_EOM})$
 $\text{evap} = \text{acres} * \text{pondEvap} / 12.0 \text{ (inches} \rightarrow \text{feet)}$
 $\text{evap} = \text{evap} * \text{daysEvap} / \text{daysInMonth}$
 $\text{recharge} = \text{flow} - \text{evap}$
 $\text{initial_EOM} = \text{EOM}$

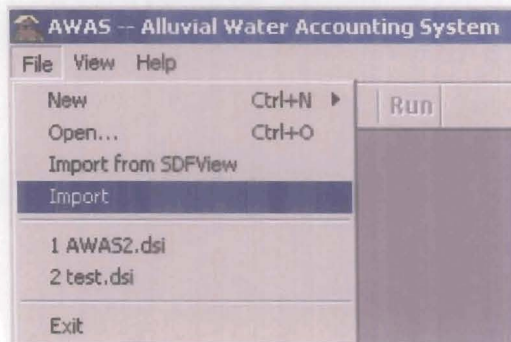
12. Data will be displayed and can be entered in the table based on the radio button(s) you select.
13. Click on **Run** to run the model with the input you have provided.
14. A screen will pop up asking if you want to save your model run.



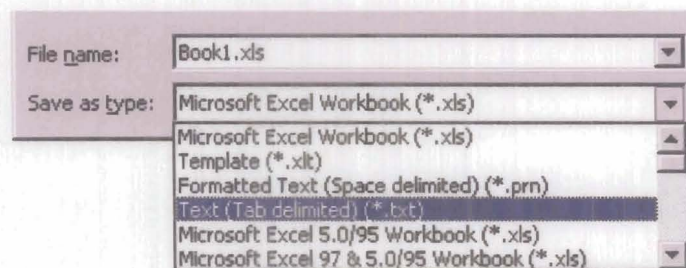
15. Save your changes under the name and file that you choose, and the results screen will appear. See Output for a Modified IDS AWAS File.

1.3 Importing Data from a Spreadsheet

Data for IDS AWAS can be imported from a spreadsheet by choosing **Import** from the **File** menu.



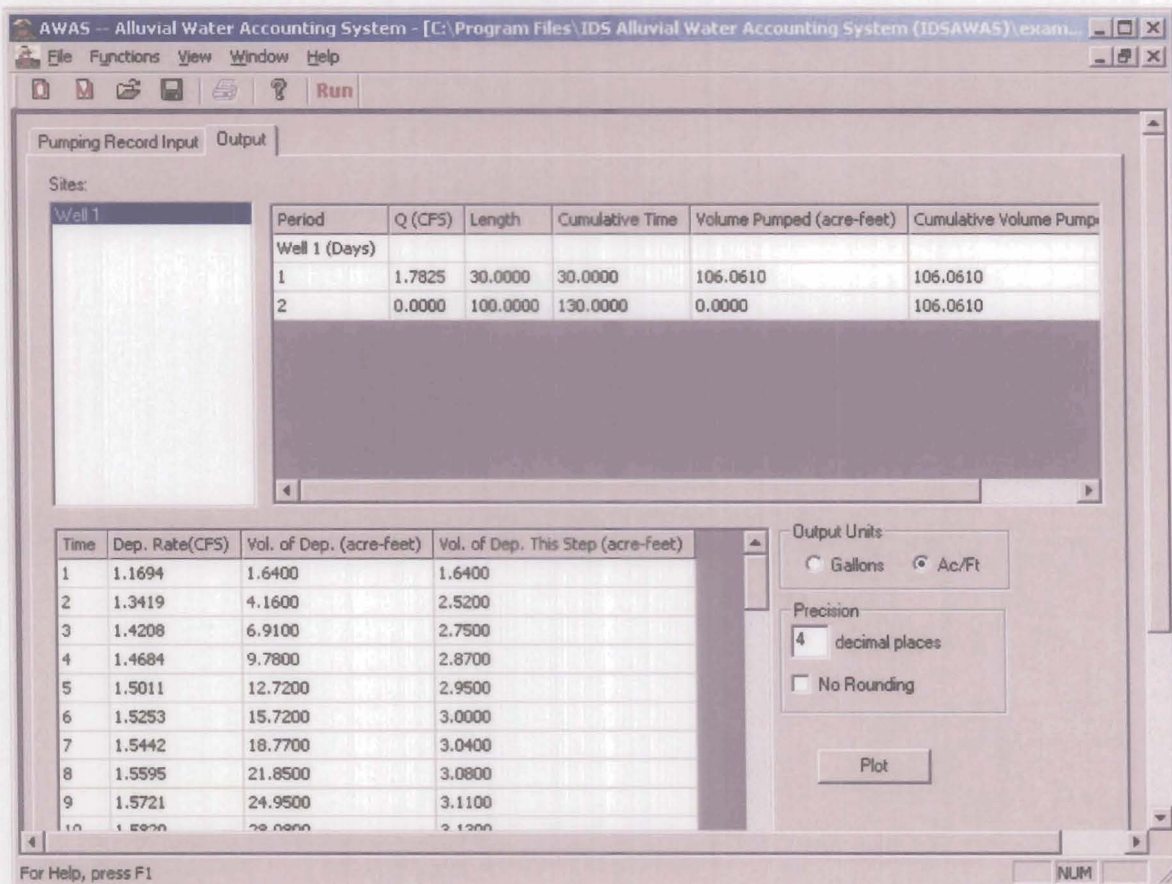
To use this option, spreadsheet files should be saved in Microsoft Excel or another spreadsheet program as a tab-delimited file, *see figure below*.



The file format should have lines separated by paragraph or carriage returns and column entries separated by tabs. The format is described in "Section 5.0: Tab-delimited Input Data File (*.txt)".

2.1 Output for an Original IDS AWAS File

Once you have clicked **Run**, the Original screen changes over to the tab marked **Output**. The output screen opens. By clicking on individual sites within your Sites list, you can view data output table.



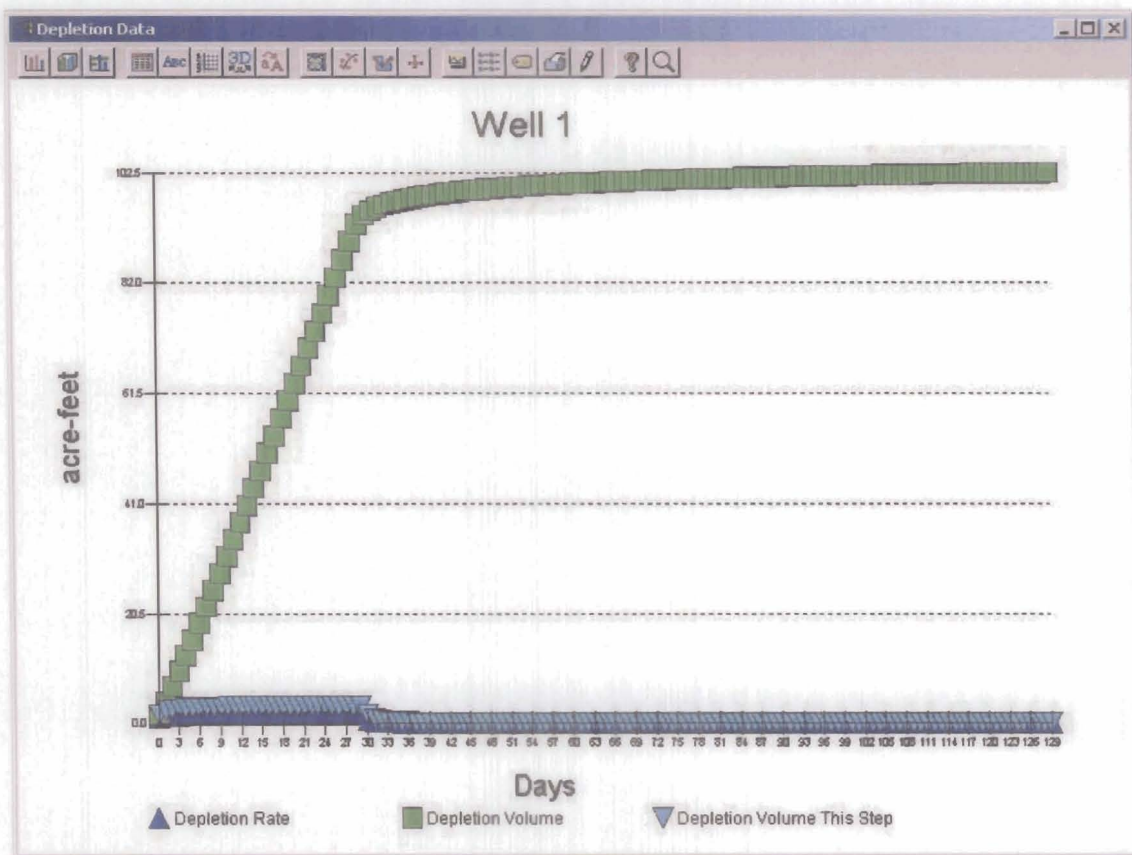
The information in the top table shows you data that you have input. For instance, your period of time, your flow (Q), the length of time, the cumulative time, the volume pumped per time period, and the cumulative volume pumped.

The lower table displays **Depletion Rate** per unit of time, **Volume of Depletion** (which is a cumulative figure) and **Volume of Depletion This Step** (which shows the volume of depletion for only the specified unit of time, ie. the second week)

By clicking on the radio buttons in the **Output Units** box, you can choose to display data in units of Gallons or Acre Feet.

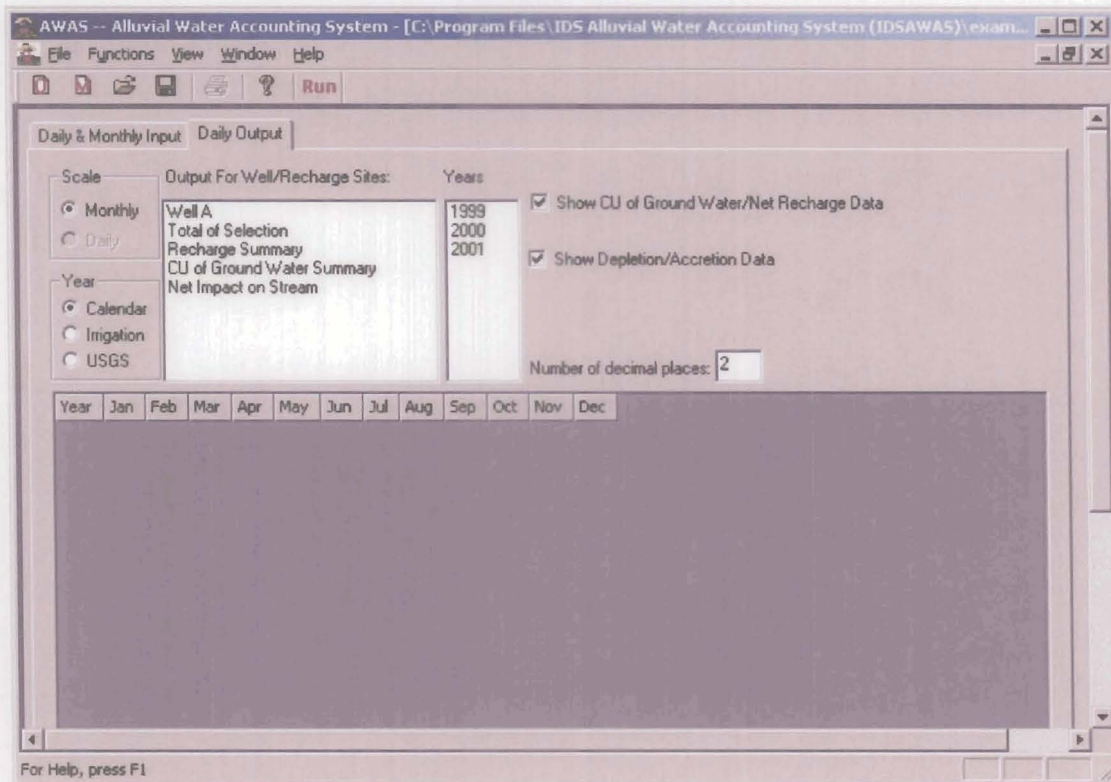
You can also select how precise you would like your data to be, by choosing the number of decimal places to include in the number and whether you would like to have the numbers rounded or not.

A **Plot** button in the lower right hand corner of the screen allows you to plot data.



2.2 Output for a Modified IDS AWAS File

After you have entered data into the input screen of the Modified version of AWAS and clicked on the **Run** icon, the output screen for the Modified version will appear.

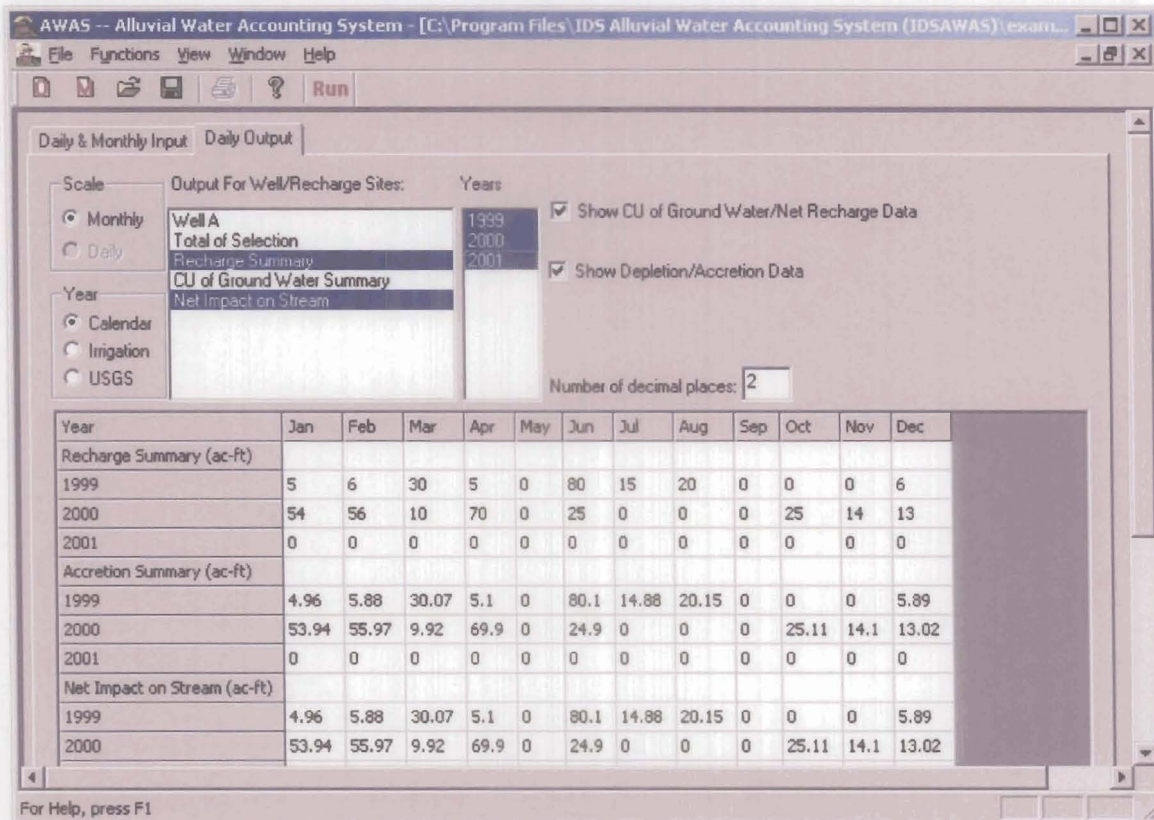


16. Monthly or Daily data may be displayed by clicking on the appropriate radio button in the **Scale** box. *Note: In order to display Daily data, you must have entered daily input.*
15. You may also choose from the different year types:
 - **Calendar Year** - (January - December)
 - **Irrigation Year** - (November - October)
 - **USGS Year** - (October - September)

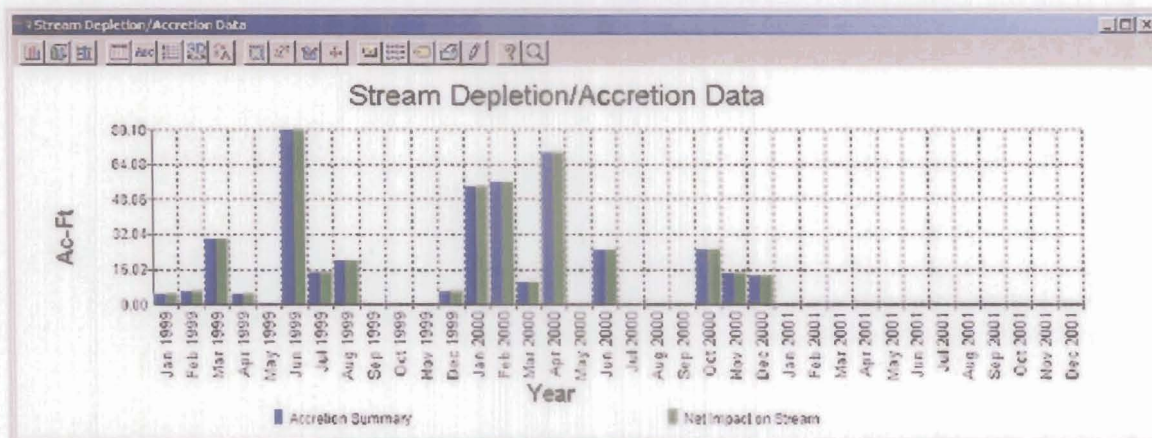
Irrigation and USGS year types begin in the previous year, for example irrigation year 1992 starts in November, 1991 and ends in October, 1992. This means that if you change the year type from irrigation year to calendar year, an additional year needs to be added to the beginning of the series to show November and December of the first year. It also means that the last year in the series is not complete because there is no data for November and December of the last year. The data for any months added because of a year type change are symbolized with hyphens (i.e. "-").

16. Select a well or a number of wells or recharge sites for display from the Output for Well/Recharge Sites list by clicking and dragging the mouse. Also select from the options of viewing **Recharge Summary** data, **CU of Ground Water Summary** data, or **Net Impact on Stream** data. You may select multiple data options at once. However, if you did not enter a recharge site, your Recharge Summary data will show zero values. Similarly, if you did not enter an irrigation site your CU of Ground Water Summary will show zero values.

17. Select a year or years for display.
18. The output data table will show you the output for your selections.



19. You may plot your data or save it to a file using the buttons at the bottom of the screen.



3.0 The IDS AWAS Toolbar

The IDS Awas toolbar is located along the top of the screen under the menu options. The toolbar gives quick access to commonly used functions.



 The Original method is based on the *Analytical Stream Depletion Model* developed by the Office of the State Engineer at the Colorado Division of Water Resources.

 The Modified version includes the functionality of the Original method, but reconfigures the program in terms of depletions.

 Open files

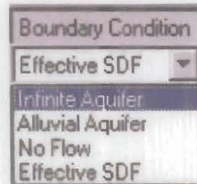
 Save files

 Help Button--Provides online information about the IDS AWAS Program.

 Run--Runs the program producing output.

4.0 Boundaries

In the Original mode of the AWAS program, the user is given the choice of one of four aquifer boundaries.



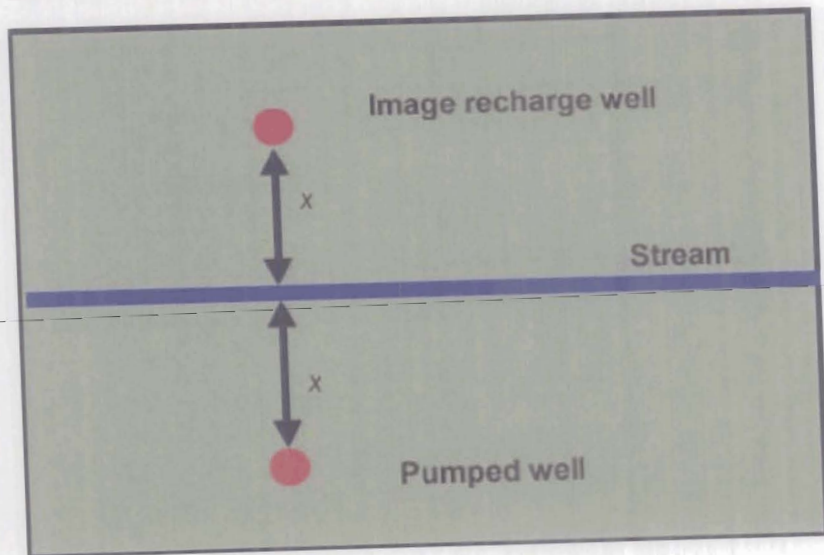
1. Infinite Aquifer is a semi-infinite aquifer bounded only by a stream (*see section 3.1 Infinite Aquifer*).
2. Alluvial Aquifer is an aquifer bounded by a stream and a parallel impermeable boundary (*see section 3.2 Alluvial Aquifer*).
3. A No Flow Aquifer is an aquifer bounded by a stream and an impermeable boundary perpendicular to the stream (*see section 3.3 No Flow Aquifer*).
4. The Effective SDF option approximates boundary effects by use of an effective stream depletion factor (SDF) (*see section 3.4 Effective SDF*).

Use of the Infinite Aquifer, Alluvial Aquifer, or No Flow Aquifer options assumes the following aquifer and boundary idealization:

- The aquifer is isotropic, homogeneous, of uniform thickness, and infinite except where bounded by specific boundaries.
- The transmissivity is everywhere the same and does not change with time. Drawdown is considered negligible when compared to the aquifer thickness.
- The water table is initially flat.
- Water temperatures are constant.
- Water is released instantaneously from storage.
- The stream is straight, infinite in length, and fully penetrates the aquifer.
- The pumping rate is constant for any pumping period.
- The diameter of the well is negligible.
- In the case of the Alluvial Aquifer, the impermeable boundary is straight, infinite in length and parallel to the stream.
- For the No Flow Aquifer, the impermeable boundary is straight, normal to the stream, and infinite away from the stream.

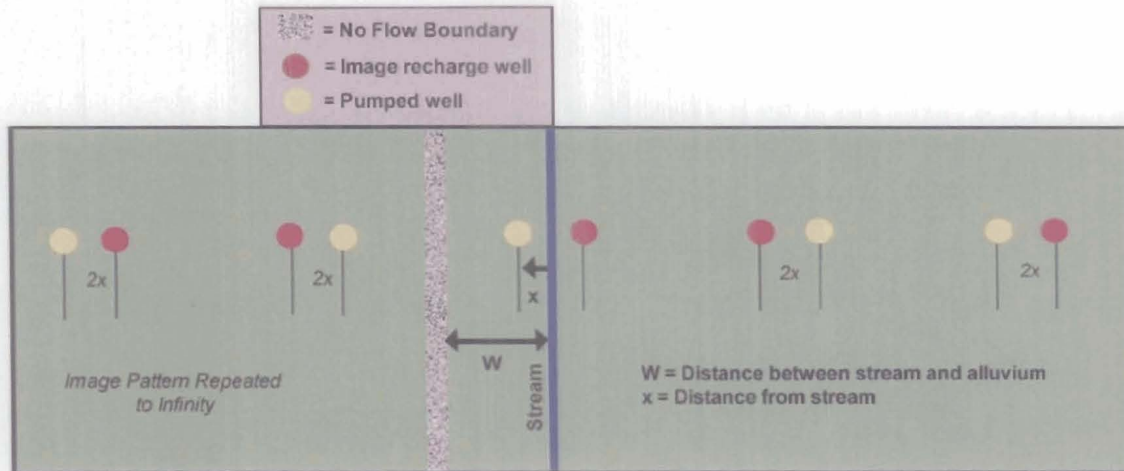
4.1 Infinite Aquifer

The required boundary condition for the Infinite Aquifer is that zero drawdown occurs along the stream. This condition is met by placing a recharging image well on the opposite side of the river and at the same distance from the river as the pumping well.



4.2 Alluvial Aquifer

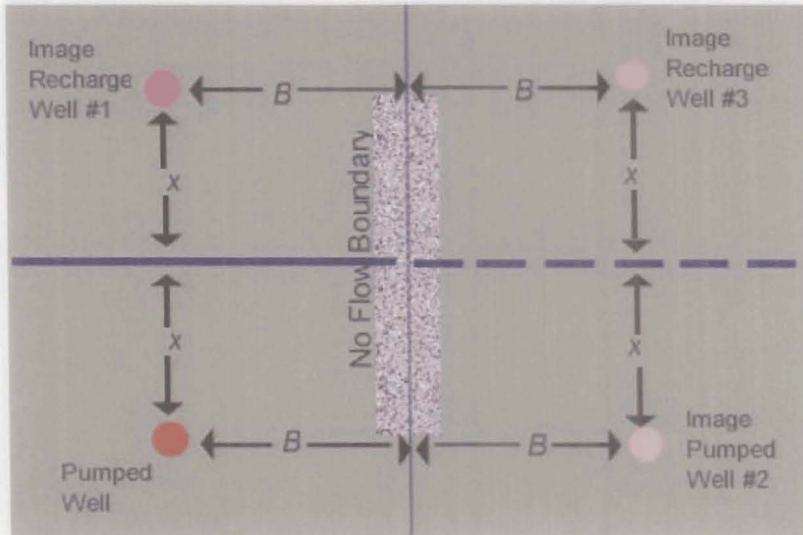
The Alluvial Aquifer requires a no-flow boundary parallel to the stream. Boundary conditions are met by placement of a repeating series of recharging and discharging image wells.



Depletion or accretion is computed by summing the depletion and accretion due to each pair of pumping and recharging wells. More distant pairs which contribute less than 0.00005 to q/Q are not included in the sum.

4.3 No Flow Aquifer

A No Flow Aquifer requires a no-flow boundary perpendicular to the stream. Boundary conditions are met by placement of three image wells.



Depletion to the stream is computed by simply summing the depletion due to the pumping well and the image well #1 and the depletion due to image wells #2 and #3.

4.4 Effective SDF

Use of Jenkins' (Jenkins 1970) effective stream depletion factor (SDF) combines transmissivity, specific yield, distance between well and stream, and the effects of real boundaries into a unitized term. If Effective SDF is used, the SDF should have been previously determined from model studies or field measurements.

5.0 Tab-delimited Input Data File (*.txt)

Data for IDS AWAS can be entered into a spreadsheet and then imported into IDS AWAS using **File > Import**. The file format should have column entries separated by tabs. The format is described below, and there is an example file called TESTAWAS.TXT in the \Program Files\AWAS\Examples directory.

Record 1: Time Period

Record 1: 2002 2003 2012 monthly

This record contains the first and last year of the data period separated by a tab. Additional columns can include the last year of historical data and the time scale (either "monthly" or "daily").

Record 2: File Information

Record 2: new well (#0) 300 0 my well

This record contains the name of the well or recharge site, the SDF value, the well or recharge type (a blank or 0 means an irrigation well, anything else indicates a recharge site), and a comment about the well or recharge site.

Record 3: Well or Recharge Site Data

Record 3:	2002	0	0	0	0	0.8	6	26.9	16.3	4.4	0
0	0										
	2003	0	0	0	0	0.8	6	26.9	16.3	4.4	0
0	0										

The first column of the data indicates the year of the records and it is followed by twelve columns of pumping or recharge values in monthly acre-feet. Each column is separated by a tab. If values are daily, then there will be either 365 or 366 days worth of data depending on leap year for each line. Follow Record 3 with another Record 2 for the next site followed by lines of Record 3, etc.

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APPENDIX C
LETTER AGREEMENTS BETWEEN TVC AND VCOA



April 29, 2008

Allen D. Merritt
Southern Regional Office
Idaho Department of Water Resources
1341 Fillmore St., Ste. 200
Twin Falls, ID 83301-3033

Re: *Groundwater Recharge Basins in Blaine County*

Dear Allen:

This letter is to clarify the statements contained in my letter to you of April 25th concerning the Application for Transfer filed by Dry Lot, LLC with your office on March 21, 2008.

For purposes of the Department processing the Dry Lot, LLC transfer application, the Valley Club consents to inclusion of its lands as described in the application, including the use of its ponds and stream system for conveying excess Valley Club Homeowners' Association diversions back to the Hiawatha Canal. As stated in my earlier letter, this consent remains contingent upon The Valley Club Owners' Association entering into a formal written agreement with The Valley Club, Inc.

Sincerely,

William S. Potter
The Valley Club, Inc.



April 25, 2008

Allen D. Merritt
Southern Regional Office
Idaho Department of Water Resources
1341 Fillmore St., Ste. 200
Twin Falls, ID 83301-3033

Re: *Groundwater Recharge Basins in Blaine County*

Dear Allen:

As you already are aware, The Valley Club Owners' Association, Inc. and The Valley Club, Inc. have an agreement, in principle, by which they propose to cooperate in the siting of one or more groundwater recharge basins to be located on their respective properties in Blaine County. The locations of the proposed recharge basins are generally described in the Application for Transfer filed by Dry Lot, LLC with your office on March 21, 2008.

With our consent, The Valley Club either has filed, or soon will be filing, its own transfer application and mitigation proposal to provide for recharge as mitigation that proposes the same recharge basin locations as described in the Dry Lot, LLC transfer application. Ultimately, the respective rights of The Valley Club and The Valley Club Owners' Association to use each other's property to effect their transfers and mitigation are contingent on them entering into a formal agreement concerning, among other things, the sharing of facilities and costs.

For purposes of the Department processing the The Valley Club's transfer application, The Valley Club Owners' Association, Inc. consents to inclusion of its lands as a potential recharge site in that application. Whether The Valley Club Owners' Association site actually can and will be used as a recharge site remains contingent upon it entering into the formal agreement with The Valley Club described above.

Sincerely,


M. FRIEDLANDER, Pres

The Valley Club Owners' Association, Inc.