

**Application for Transfer and
associated documents
have been re-numbered
due to new Workflow Transfer
database effective
December 2012**

See new transfer 78255

RECEIVED

MAR 28 2013

DEPT. OF WATER RESOURCES
SOUTHERN REGION

Transfer No. 78255

Receipt No. _____

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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
AMENDED APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1

1. Applicant Information THE VALLEY CLUB INC
PO BOX 252
SUN VALLEY ID 83353
(208)788-0997

*Amended
Packet*
ORIGINAL

Will this transfer result in an ownership change? _____ Yes _____ ☒ No

2. Current Water Right

Part 2 Attached for Each Right

	Origin/Basis	Rate	Volume	Acre Limit	Total Acres	Source
37-657B	WR/Decreed	1.65		75.3	89.0	BIG WOOD RIVER
37-494	WR/Decreed	2.00			143.8	BIG WOOD RIVER
37-495	WR/Decreed	2.80			143.8	BIG WOOD RIVER
37-577BU	WR/Decreed	1.20			143.8	BIG WOOD RIVER
37-577BV	WR/Decreed	1.69			143.8	BIG WOOD RIVER
37-833K	WR/Decreed	0.75			143.8	BIG WOOD RIVER
37-2623	WR/License	3.05	431.4		143.8	GROUND WATER

3. Purpose of Transfer (Change Proposed)

Part 3A Attached for Each Proposed Right

Part 3B Attached for Each Split Right

Right	Split	POD	POU	Add POD	Period of Use	Nature of Use
37-657B	NO	NO	YES	NO	NO	NO
37-494	NO	NO	YES	NO	NO	YES
37-495	NO	NO	YES	NO	NO	YES
37-577BU	NO	NO	YES	NO	NO	YES
37-577BV	NO	NO	YES	NO	NO	YES
37-833K	NO	NO	YES	NO	NO	YES
37-2623	NO	NO	YES	NO	NO	NO

Describe the reason for the proposed changes

Application filed to convert a 10.8 acre portion of water rights 37-494, 37-495, 37-577BU, 37-577BV, and 37-833K to groundwater recharge use. Application also proposes creating a common permissible place of use for the irrigation portions of rights 37-494, 37-495, 37-577BU, 37-577BV, 37-833K, 37-2623, and 37-657B to provide irrigation flexibility. Application will also correctly identify actual locations of use for the recreation portions of rights 37-494, 37-495, 37-577BV, 37-833K, and 37-2623.

4. FOR CHANGES IN NATURE OF USE ONLY

A. Describe the expected quantity of the return flows and location of discharge after the proposed change

Up to 12.8 acre feet per year will be utilized as ground water recharge within the NWSE of Section 20, T3N, R18E.

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

None anticipated

5. Total Amounts Transferred

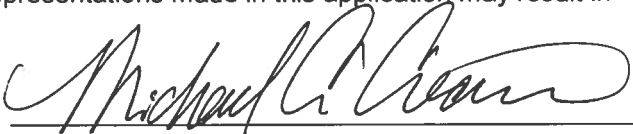
	Rate	Acre Limit	Total Acres	Volume
37-657B	1.65 cfs	75.3	276.7	
37-494	2.00 cfs	133.0	276.7	
37-495	2.80 cfs	133.0	276.7	
37-577BU	1.20 cfs	133.0	276.7	
37-577BV	1.69 cfs	133.0	276.7	
37-833K	0.75 cfs	133.0	276.7	
37-2623	2.84 cfs	133.0	276.7	399.0 af
TOTAL	10.09 cfs	208.3	276.7	

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**STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1**

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.

BY: Michael C. Creamer

TITLE: Attorney-In-Fact

DATED: March 21, 2013

Transfer No. 78255

Receipt No. _____

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

Current Water Right No. 37-657B

Priority Date: May 01, 1881

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER**Tributary:** MALAD RIVER

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
IRRIGATION	04/01	11/01	1.53 CFS		
DIVERSION TO STORAGE	04/01	11/01	0.12 CFS		
RECREATION STORAGE	01/01	12/31		13.4 AFA	
AESTHETIC STORAGE	01/01	12/31		13.4 AFA	
Total Diversion			1.65 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER SWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	18E	20															19.0	19.0	
03N	18E	29	16.9	5.5		29.7									17.9			70.0	

Total Acres: 89

PLACE OF USE: RECREATION STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	18E	29	X			X									X				

PLACE OF USE: AESTHETIC STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	18E	29	X			X									X				

Conditions/Remarks:

1. The right holder shall maintain a measuring device and lockable controlling works of a type approved by the Department in a manner that will provide the watermaster suitable control of the diversion.
2. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 3.5 afa per acre at the field headgate for irrigation of the lands described below.
3. Recreation and Aesthetic uses under Right 37-657B authorize 13.4 af to be used for the replacement of losses caused by evaporation from the 6.3 acre total surface area of the ponds established under Right 37-21338.
4. Use of water under this right will be regulated by a watermaster with responsibility for the distribution of water among appropriators within a water district. At the time of this approval, this water right is within State Water District No. 37.
5. 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.
6. This right is limited to the irrigation of 75.3 acres within the place of use described above in a single irrigation season.

Documentation of Ownership of the Current Place of Use
IDWR records

Is this property subject to any liens, deeds of trust, mortgages, or contracts or other encumbrances?

Describe the effect on the current place of use for this water right if the place of use is changed pursuant to this transfer

Application proposes creating a permissible place of use

To your knowledge, has any portion of the water right undergone a period of five(5) or more consecutive years of non-use?

NO

Transfer No. 78255

Receipt No. _____

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

Current Water Right No. 37-494

Priority Date: May 01, 1886

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER**Tributary:** MALAD RIVER

<u>Beneficial Use</u>	<u>From</u> <u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
RECREATION	04/15 10/31	0.15 CFS		
IRRIGATION	04/15 10/31	1.85 CFS		
	Total Diversion	2.00 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: RECREATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20			X										X	X		X	
03N 18E 21											X						
03N 18E 28						X	X			X							

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		6.2	16.0	6.6				2.6					12.0	14.0		6.6	64.0
03N 18E 21											13.2						13.2
03N 18E 28					8.2	16.0	13.0	10.0	8.6	8.7		2.1					66.6

Total Acres: 143.8

Conditions/Remarks:

- Use of water under this water right will be regulated by the watermaster of State Water District No. 37.

2. Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.
3. 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.
4. The rights listed below are limited to the irrigation of a combined total of 143.8 acres in a single irrigation season. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K and 37-2623.
5. The rights listed below shall provide no more than 0.02 cfs and 3.0 acre feet per acre at the field headgate for irrigation of the lands described below. Combined Right Nos.: 37-494, 37-495, 37-577BV, 37-577BU, 37-833K, and 37-2623.
6. Return flow discharged to a surface water system shall meet Idaho Water Quality Standards.
7. The rights listed below are limited to a total combined diversion rate of 8.44 cfs. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K and 37-2623.
8. The right holder shall maintain a measuring device and lockable controlling works of a type approved by the Department in a manner that will provide the watermaster suitable control of the diversion.

Documentation of Ownership of the Current Place of Use

IDWR records

Is this property subject to any liens, deeds of trust, mortgages, or contracts or other encumbrances?

Describe the effect on the current place of use for this water right if the place of use is changed pursuant to this transfer

Application proposes creating a permissible place of use

To your knowledge, has any portion of the water right undergone a period of five(5) or more consecutive years of non-use?

NO

Transfer No. 78255

Receipt No. _____

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

Current Water Right No. 37-495

Priority Date: July 01, 1892

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER**Tributary:** MALAD RIVER

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
RECREATION	04/15	10/31	0.21 CFS		
IRRIGATION	04/15	10/31	2.59 CFS		
	Total Diversion		2.80 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: RECREATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20			X										X	X		X	
03N 18E 21											X						
03N 18E 28						X	X			X							

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		6.2	16.0	6.6				2.6					12.0	14.0		6.6	64.0
03N 18E 21											13.2						13.2
03N 18E 28					8.2	16.0	13.0	10.0	8.6	8.7		2.1					66.6

Total Acres: 143.8

Conditions/Remarks:

1. Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.

2. Use of water under this water right will be regulated by the watermaster of State Water District No. 37.
3. 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.
4. The rights listed below are limited to the irrigation of a combined total of 143.8 acres in a single irrigation season. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K, and 37-2623.
5. Return flow discharged to a surface water system shall meet Idaho Water Quality Standards.
6. The rights listed below shall provide no more than 0.02 cfs and 3.0 acre feet per acre at the field headgate for irrigation of the lands described below. Combined Right Nos.: 37-494, 37-495, 37-577BV, 37-577BU, 37-833K, and 37-2623.
7. The rights listed below are limited to a total combined diversion rate of 8.44 cfs. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K and 37-2623.
8. The right holder shall maintain a measuring device and lockable controlling works of a type approved by the Department in a manner that will provide the watermaster suitable control of the diversion.

Documentation of Ownership of the Current Place of Use

IDWR records

Is this property subject to any liens, deeds of trust, mortgages, or contracts or other encumbrances?

Describe the effect on the current place of use for this water right if the place of use is changed pursuant to this transfer

Application proposes creating a permissible place of use

To your knowledge, has any portion of the water right undergone a period of five(5) or more consecutive years of non-use?

NO

Transfer No. 78255

Receipt No. _____

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

Current Water Right No. 37-577BU

Priority Date: March 24, 1883

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER**Tributary:** MALAD RIVER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
IRRIGATION	04/15 10/31	1.20 CFS		
	Total Diversion	1.20 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		6.2	16.0	6.6				2.6					12.0	14.0		6.6	64.0
03N 18E 21											13.2						13.2
03N 18E 28					8.2	16.0	13.0	10.0	8.6	8.7		2.1					66.6

Total Acres: 143.8

Conditions/Remarks:

1. 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.
2. The rights listed below are limited to the irrigation of a combined total of 143.8 acres in a single irrigation season. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K and 37-2623
3. The rights listed below shall provide no more than 0.02 cfs and 3.0 acre feet per acre at the field headgate for irrigation of the lands described below. Combined Right Nos.: 37-494, 37-495, 37-577BV, 37-577BU, 37-833K, and 37-2623.
4. The rights listed below are limited to a total combined diversion rate of 8.44 cfs. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K and 37-2623.

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5. The right holder shall maintain a measuring device and lockable controlling works of a type approved by the Department in a manner that will provide the watermaster suitable control of the diversion.

Documentation of Ownership of the Current Place of Use

IDWR records

Is this property subject to any liens, deeds of trust, mortgages, or contracts or other encumbrances?

Describe the effect on the current place of use for this water right if the place of use is changed pursuant to this transfer

Application proposes creating a permissible place of use

To your knowledge, has any portion of the water right undergone a period of five(5) or more consecutive years of non-use?

NO

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

Current Water Right No. 37-577BV

Priority Date: March 24, 1883

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER

Tributary: MALAD RIVER

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
IRRIGATION	04/15	10/31	1.56 CFS		
RECREATION	04/15	10/31	0.13 CFS		
Total Diversion			1.69 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	18E	20		6.2	16.0	6.6				2.6					12.0	14.0		6.6	64.0
03N	18E	21											13.2						13.2
03N	18E	28					8.2	16.0	13.0	10.0	8.6	8.7		2.1					66.6

Total Acres: 143.8

PLACE OF USE: RECREATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	18E	20			X										X	X		X	
03N	18E	21											X						
03N	18E	28					X	X			X								

Conditions/Remarks:

1. Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.

2. The rights listed below are limited to the irrigation of a combined total of 143.8 acres in a single irrigation season. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K, and 37-2623
3. Use of water under this water right will be regulated by the watermaster of State Water District No. 37.
4. The rights listed below are limited to a total combined diversion rate of 8.44 cfs. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K, and 37-2623.
5. Return flow discharged to a surface water system shall meet Idaho Water Quality Standards.
6. 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.
7. The rights listed below shall provide no more than 0.02 cfs and 3.0 acre feet per acre at the field headgate for irrigation of the lands described below. Combined Right Nos.: 37-494, 37-495, 37-577BV, 37-577BU, 37-833K, and 37-2623.
8. The right holder shall maintain a measuring device and lockable controlling works of a type approved by the Department in a manner that will provide the watermaster suitable control of the diversion.

Documentation of Ownership of the Current Place of Use

IDWR records

Is this property subject to any liens, deeds of trust, mortgages, or contracts or other encumbrances?

Describe the effect on the current place of use for this water right if the place of use is changed pursuant to this transfer

Application proposes creating a permissible place of use

To your knowledge, has any portion of the water right undergone a period of five(5) or more consecutive years of non-use?

NO

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

Current Water Right No. 37-833K

Priority Date: November 12, 1936

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER

Tributary: MALAD RIVER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
IRRIGATION	04/15 10/31	0.69 CFS		
RECREATION	04/15 10/31	0.06 CFS		
Total Diversion		0.75 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		6.2	16.0	6.6				2.6					12.0	14.0		6.6	64.0
03N 18E 21											13.2						13.2
03N 18E 28					8.2	16.0	13.0	10.0	8.6	8.7		2.1					66.6

Total Acres: 143.8

PLACE OF USE: RECREATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20			X										X	X		X	
03N 18E 21											X						
03N 18E 28						X	X			X							

Conditions/Remarks:

1. A lockable device subject to the approval of the Department shall be maintained on the diverting works in a manner that will provide the watermaster suitable control of the diversion.

2. The saved water shall be made available to the Rockwell By-Pass saved water right holders any time the Rockwell By-Pass is being used to deliver water to Broadford Slough right holders. The Rockwell saved water rights shall be curtailed when calls for senior water rights from the Broadford Slough cannot be delivered.
3. The rights listed below are limited to a total combined diversion rate of 8.44cfs. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV 37-833K, and 37-2623.
4. A measuring device of a type approved by this Department shall be maintained as a part of the diverting works.
5. 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, as established by and subject to the provisions included within the Rockwell vs. Coffin decree issued on 29 July, 1949.
6. The right holder shall accomplish the change authorized by this transfer within one (1) year of the date of this approval.
7. The rights listed below are limited to the irrigation of a combined total of 143.8 acres in a single irrigation season. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, and 37-2623
8. 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.
9. Use of water under this water right will be regulated by the watermaster of State Water District No. 37.
10. Rockwell By-Pass owners must maintain the by-pass for the entire length of the by-pass capable of carrying 17.36 cfs of water during the irrigation season.
11. The rights listed below shall provide no more than 0.02 cfs and 3.0 acre feet per acre at the field headgate for irrigation of the lands described below. Combined Right Nos.: 37-494, 37-495, 37-577BV, 37-577BU, 37-833K, and 37-2623.

Documentation of Ownership of the Current Place of Use

IDWR records

Is this property subject to any liens, deeds of trust, mortgages, or contracts or other encumbrances?

Describe the effect on the current place of use for this water right if the place of use is changed pursuant to this transfer

Application proposes creating a permissible place of use

To your knowledge, has any portion of the water right undergone a period of five(5) or more consecutive years of non-use?

NO

Transfer No. 78255

Receipt No. _____

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

Current Water Right No. 37-2623

Priority Date: October 12, 1959

Origin: Water Right

Basis: Decreed

Status: Active

Source: GROUND WATER

<u>Beneficial Use</u>	<u>From</u> <u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
RECREATION	04/15 10/31	0.24 CFS		
IRRIGATION	04/15 10/31	2.81 CFS	431.4 AFA	
Total Diversion		3.05 CFS	431.4 AFA	

Source and Point(s) of Diversion:

GROUND WATER NESENW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: RECREATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20							X						X	X		X	
03N 18E 21											X						
03N 18E 28					X	X			X								

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		6.2	16.0	6.6				2.6					12.0	14.0		6.6	64.0
03N 18E 21											13.2						13.2
03N 18E 28					8.2	16.0	13.0	10.0	8.6	8.7		2.1					66.6

Total Acres: 143.8

Conditions/Remarks:

1. 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.

2. Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.
3. Use of water under this water right will be regulated by the watermaster of State Water District No. 37.
4. The rights listed below are limited to the irrigation of a combined total of 143.8 acres in a single irrigation season. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K, and 37-2623
5. Return flow discharged to a surface water system shall meet Idaho Water Quality Standards.
6. The rights listed below shall provide no more than 0.02 cfs and 3.0 acre feet per acre at the field headgate for irrigation of the lands described below. Combined Right Nos.: 37-494, 37-495, 37-577BV, 37-577BU, 37-833K, and 37-2623.
7. The rights listed below are limited to a total combined diversion rate of 8.44 cfs. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K and 37-2623.
8. The right holder shall make full beneficial use of all surface water rights available to the right holder for irrigation of the lands authorized to be irrigated under this right. The right holder shall limit the diversion of ground water under this right to those times when the surface water supply authorized for irrigation is not available or otherwise reasonably sufficient to irrigate the place of use authorized under this right.
9. The right holder shall maintain a measuring device and lockable controlling works of a type approved by the Department in a manner that will provide the watermaster suitable control of the diversion.

Documentation of Ownership of the Current Place of Use

IDWR records

Is this property subject to any liens, deeds of trust, mortgages, or contracts or other encumbrances?

Describe the effect on the current place of use for this water right if the place of use is changed pursuant to this transfer

Application proposes creating a permissible place of use

To your knowledge, has any portion of the water right undergone a period of five(5) or more consecutive years of non-use?

NO

IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3A

Proposed Water Right No. 37-657B

Priority Date: May 01, 1881

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER

Tributary: MALAD RIVER

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
IRRIGATION	04/01	11/01	1.53 CFS		
DIVERSION TO STORAGE	04/01	11/01	0.12 CFS		
RECREATION STORAGE	01/01	12/31		13.4 AFA	
AESTHETIC STORAGE	01/01	12/31		13.4 AFA	
Total Diversion			1.65 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals	
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE		
03N	18E	20		2	18.0	9.6	.2				5.0					16.0	20.0	18.0	15.0	103.8
03N	18E	21										0.5	15.0							15.5
03N	18E	28					13.0	27.0	18.0	12.0	9.4	13.0		2.6						95.0
03N	18E	29	15.0	6.4		23.0									18.0					62.4

Total Acres: 276.7

PLACE OF USE: RECREATION STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals	
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE		
03N	18E	29	X				X								X					

PLACE OF USE: AESTHETIC STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals	
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE		
03N	18E	29	X				X								X					

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3A**

Proposed Water Right No. 37-494

Priority Date: May 01, 1886

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER

Tributary: MALAD RIVER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
GROUND WATER RECHARGE	04/15 10/31	0.14 CFS	12.8 AFA	
RECREATION	04/15 10/31	0.15 CFS		
IRRIGATION	04/15 10/31	1.71 CFS		
Total Diversion		2.00 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: GROUND WATER RECHARGE

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20														X			

PLACE OF USE: RECREATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20			X					X					X	X			X
03N 18E 21											X						
03N 18E 28						X	X			X							

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		2	18.0	9.6	.2			5.0					16.0	20.0	18.0	15.0	103.8
03N 18E 21										0.5	15.0						15.5
03N 18E 28					13.0	27.0	18.0	12.0	9.4	13.0		2.6					95.0
03N 18E 29	15.0	6.4		23.0									18.0				62.4

Total Acres: 276.7

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3A**

Proposed Water Right No. 37-495

Priority Date: July 01, 1892

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER

Tributary: MALAD RIVER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
RECREATION	04/15 10/31	0.21 CFS		
IRRIGATION	04/15 10/31	2.40 CFS		
GROUND WATER	04/15 10/31	0.19 CFS	12.8 AFA	
RECHARGE				
	Total Diversion	2.80 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: RECREATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20			X					X					X	X		X	
03N 18E 21											X						
03N 18E 28						X	X			X							

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		2	18.0	9.6	.2			5.0					16.0	20.0	18.0	15.0	103.8
03N 18E 21											0.5	15.0					15.5
03N 18E 28					13.0	27.0	18.0	12.0	9.4	13.0		2.6					95.0
03N 18E 29	15.0	6.4		23.0									18.0				62.4

Total Acres: 276.7

PLACE OF USE: GROUND WATER RECHARGE

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20														X			

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3A**

Proposed Water Right No. 37-577BU

Priority Date: March 24, 1883

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER

Tributary: MALAD RIVER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
IRRIGATION	04/15 10/31	1.11 CFS		
GROUND WATER RECHARGE	04/15 10/31	0.09 CFS	12.8 AFA	
Total Diversion		1.20 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		2	18.0	9.6	.2			5.0					16.0	20.0	18.0	15.0	103.8
03N 18E 21										0.5	15.0						15.5
03N 18E 28					13.0	27.0	18.0	12.0	9.4	13.0		2.6					95.0
03N 18E 29	15.0	6.4		23.0									18.0				62.4

Total Acres: 276.7

PLACE OF USE: GROUND WATER RECHARGE

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20														X			

IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3A

Proposed Water Right No. 37-833K

Priority Date: November 12, 1936

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER

Tributary: MALAD RIVER

<u>Beneficial Use</u>	<u>From</u> <u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
IRRIGATION	04/15 10/31	0.64 CFS		
RECREATION	04/15 10/31	0.06 CFS		
GROUND WATER RECHARGE	04/15 10/31	0.05 CFS	12.8 AFA	
	Total Diversion	0.75 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals			
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE				
03N	18E	20		2	18.0	9.6	.2					5.0						16.0	20.0	18.0	15.0	103.8
03N	18E	21											0.5	15.0								15.5
03N	18E	28					13.0	27.0	18.0	12.0	9.4	13.0			2.6							95.0
03N	18E	29	15.0	6.4		23.0											18.0				62.4	

Total Acres: 276.7

PLACE OF USE: RECREATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals		
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE			
03N	18E	20			X				X						X	X		X			
03N	18E	21											X								
03N	18E	28					X	X			X										

PLACE OF USE: GROUND WATER RECHARGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals		
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE			
03N	18E	20														X					

Transfer No. 78255

Receipt No. _____

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3A**

Proposed Water Right No. 37-2623

Priority Date: October 12, 1959

Origin: Water Right

Basis: Decreed

Status: Active

Source: GROUND WATER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
RECREATION	04/15 10/31	0.24 CFS		
IRRIGATION	04/15 10/31	2.60 CFS	399.0 AFA	
Total Diversion		2.84 CFS	399.0 AFA	

Source and Point(s) of Diversion:

GROUND WATER NESENW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: RECREATION

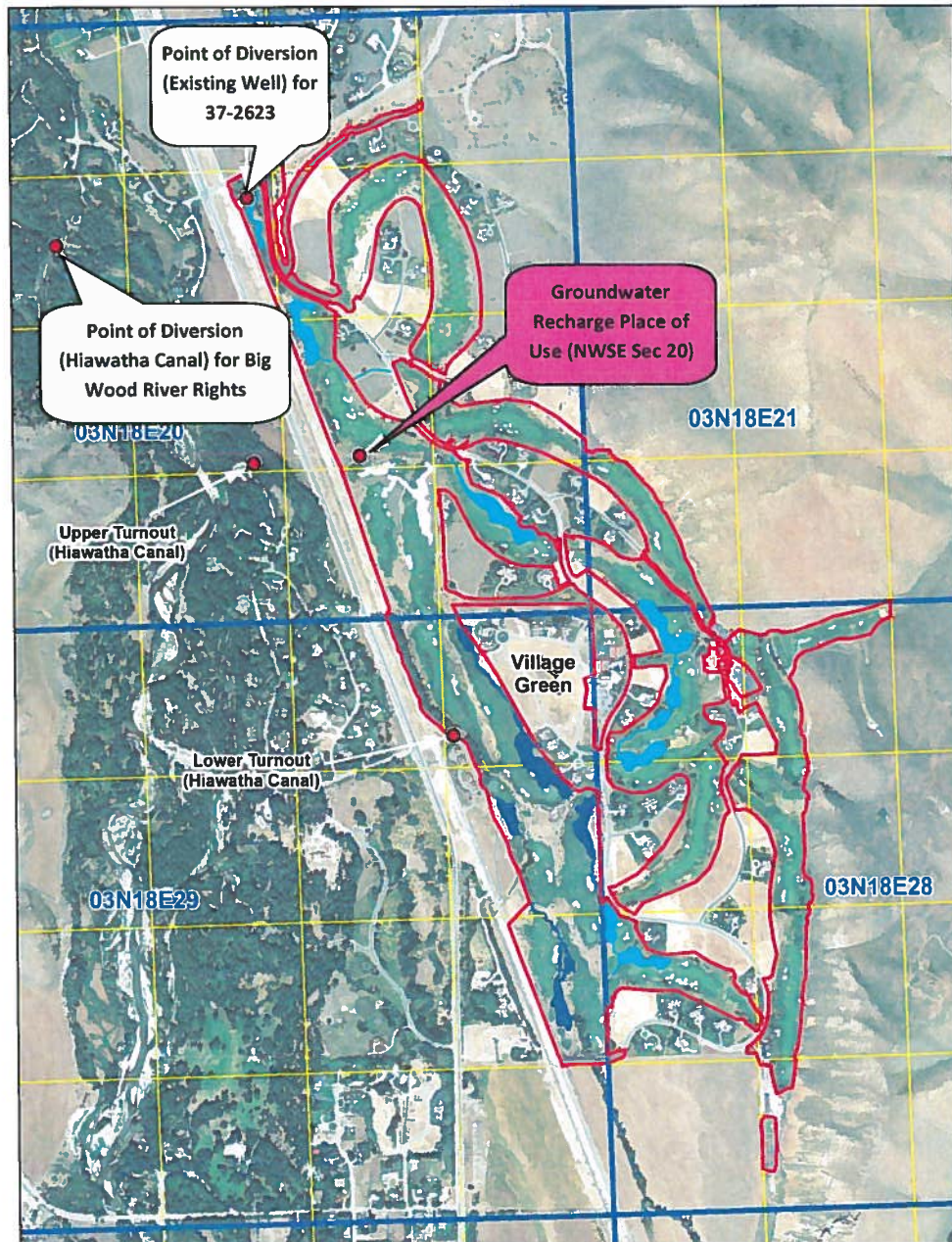
Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20			X					X					X	X		X	
03N 18E 21											X						
03N 18E 28					X	X			X								

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		2	18.0	9.6	.2			5.0					16.0	20.0	18.0	15.0	103.8
03N 18E 21											0.5	15.0					15.5
03N 18E 28					13.0	27.0	18.0	12.0	9.4	13.0		2.6					95.0
03N 18E 29	15.0	6.4		23.0									18.0				62.4

Total Acres: 276.7

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT**



Proposed Irrigation Permissible Place of Use

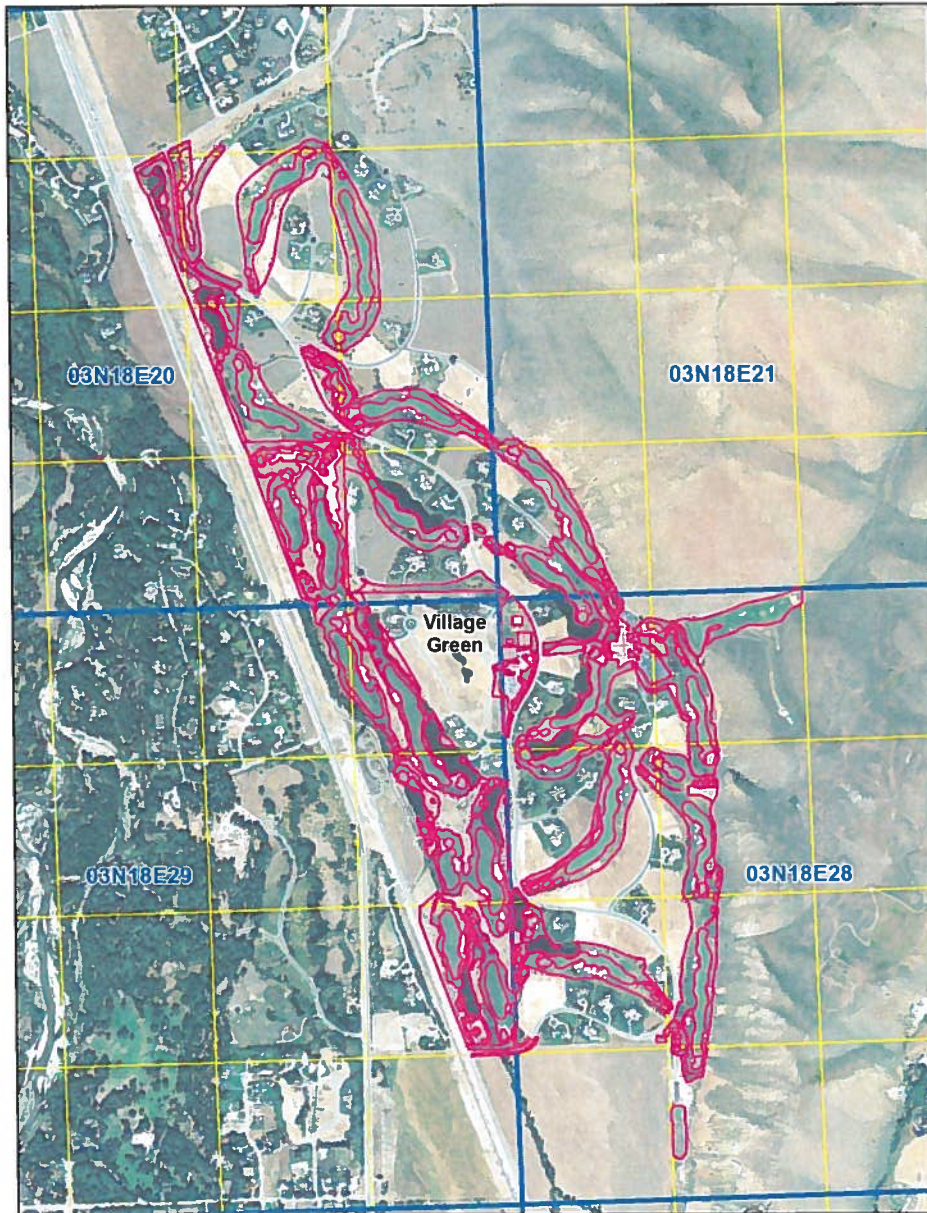


37-657B Aesthetic and Recreation Storage Place of Use



37-494, 37-495, 37-577BV, 37-833K, and 37-2623 Recreation Place of Use

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT**



Initial 208.3 Acre Area to be Irrigated within Proposed Permissible Place of Use

**Substantiating Report
in Support of
Water Rights Transfers
and
Mitigation Plan**

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

March 2013



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.

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Table 4: Dry-Up Credit Irrigation Demand
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Table 8: Post Transfer Irrigation by Water Right Priority
Table 9: Template of TVC Accounting

APPENDICES

Appendix A: Figures
Appendix B: Big Wood Aquifer and River Simulated Response to Proposed Valley Club Recharge and Extraction Using a Big Wood River Aquifer Groundwater Model

1.0 PROJECT BACKGROUND

The Valley Club (TVC) owns and operates two adjacent golf courses near the City of Hailey in Blaine County, Idaho, the 18-hole “Irwin Course” and the 9-hole “West 9 Course.” These golf courses are presently irrigated by surface water diverted from the Big Wood River and by groundwater. The surface water rights held by TVC are sufficient to meet golf course irrigation requirements in most years. Groundwater is used to provide a supplemental supply or when the surface water delivery system is not fully operating.

This report is in support of a submitted water right transfer application seeking to consolidate the water rights place-of-use designations for the two golf courses into a single integrated Permissible Place of Use (PPU), and approval of a proposed groundwater recharge project to mitigate out-of-priority groundwater depletions (“Application”). The mitigation component of the Application involves the dry-up of 10.8 acres of irrigated land and a change in the purpose of use of the portion of the surface water rights appurtenant to those 10.8 acres from irrigation to recharge. The PPU component would optimize irrigation efficiency and water management on TVC’s Irwin and West 9 courses. Information is presented in this report on TVC’s existing water rights and irrigation operations. The technical analyses necessary for evaluation of the proposed transfers and post-transfer monitoring practices are also provided.

2.0 Existing Water Rights and Irrigation Practices

The Irwin Course became operational in 1996, and the West 9 Course became operational in 2007. Although the two courses are adjacent and operated jointly, they are presently irrigated using separate portfolios of surface and groundwater rights described more fully in Section 2.1.

2.1 Water Rights

The principal water supplies for the Irwin and West 9 Courses are derived from decreed surface water rights delivered via the Hiawatha Canal from the Big Wood River. The water rights appurtenant to the Irwin course were previously changed from their original use via approved Transfer Nos. 3742 and 3743 in 1991. Water rights appurtenant to the West 9 Course were previously changed from their original use via approved Transfer No. 71721 in 2005. TVC’s groundwater right is used as a supplemental supply to Irwin Course water rights 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 for the Irwin and West 9 Courses are presented in Table 1.

In Transfer Nos. 3742 and 3743, the Irwin Course water rights were combined and made subject to certain conditions of use, including the following:

- Combined diversion rate for surface rights not to exceed 7.24 cfs
- Combined total irrigated area not to exceed 143.8 acres
- Water application on Irwin Course not to exceed 3 acre-feet/acre/year

In Transfer No. 71721, the West 9 water right 37-657B, was conditioned as follows:

- Combined total irrigated area of West 9, including Village Green (a planned unit development) landscaped areas, not to exceed 93.7 acres
- Combined application of West 9 surface right not to exceed 0.02 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 were offset by dedication of portions of TVC surface water rights changed in Transfers 3472, 3473, and 71721. These dedications are shown as recreation and/or aesthetic uses in Table 1. Accordingly, pond surface areas for these courses are not included in the irrigated acreage limitations shown in Table 1 or described above and elsewhere in this report.

The present authorized irrigation acres within the PPU for each water right are presented in Table 1. As discussed above, the conditions of approval for each water right limit the amount of land that may be irrigated using a combined set of water rights. This is reflected in Column J of Table 1, showing that the irrigation of the Irwin Course using all of the Irwin portfolio water rights is limited to 143.8 acres.

The West 9 Course water right, 37-657B, historically has been delivered for irrigation of the golf course and certain landscaped areas in the Village Green residential development (situated between the West 9 and Irwin Courses), along with a few other isolated, small parcels. By agreement with the Village Green owner, TVC has conveyed to The Village Green at the Valley Club Homeowners Association, Inc. (VGHOA) 0.37 cfs of right 37-657B to be used by VGHOA to irrigate 18.36 acres of common areas within the Village Green subdivision and any landscaping associated with an adjacent community housing project known as the Agave Place parcel. This split portion of 37-657B owned by VGHOA has now been assigned water right number 37-22657 and is not involved in this transfer application by TVC. TVC's retained portion of 37-657B currently authorizes the use of 1.53 cfs for irrigation of 75.3 acres (93.7 –

18.36) within an 89 acre PPU on the West 9 Course. This is reflected in Column J of Table 1, showing TVC's authorized irrigation use of the West 9 water right 37-657B to be 75.3 acres.

2.2 Delivery of Irrigation Water

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 shown in Figure 1. By agreement with the canal company, the Hiawatha Canal flows through and serves as a water amenity on a portion of the West 9 Course.

The upper turnout is presently used to deliver surface water rights having priority dates of 1883 and later to irrigation and aesthetic uses on 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 one of these ponds into the golf course irrigation system. TVC's groundwater 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, though it has physical capacity to divert a greater amount. This water is delivered from the Hiawatha Canal by gravity into a separate pond and then pumped into the irrigation system for the West 9 Course.

3.0 Historical Water Use

TVC's irrigation water use is measured continuously at the discharges of the two pumping plants feeding the pressurized sprinkler distribution systems. Historical water use records exist for the Irwin Course for the period 2001 through 2011 and from 2007-2011 for the West 9 Course. These are summarized in Table 2. Additionally a minor amount (less than 1 percent) of the TVC irrigation is delivered through manual connections to the pressurized system. To date, systematic records of the manual irrigation have not been made. Records of this irrigation use will be maintained as a component of the accounting for these proposed transfers in the future. Average annual irrigation water use on the Irwin Course and West 9 courses is approximately 1.5 acre-feet/acre.

4.0 TVC Groundwater Use

TVC sometimes cannot receive a sufficient surface water supply via the Hiawatha Canal. This stems primarily from operational constraints in the Canal itself, though in very dry years TVC's

surface water rights also may be insufficient in the late season. In such situations TVC is required to pump groundwater under its water right no. 37-2623 from its existing well, shown in Figure 2, to meet irrigation demands. A meter will be installed on the pump during the 2012 irrigation season and will be used to measure groundwater pumping in the future. However, historical pumping data for this well is not available for this transfer application.

The amount of groundwater pumping estimated to be necessary to satisfy irrigation requirements of the Irwin and West 9 courses following approval of both of these transfers is 12.8 acre-feet/year, which also is equivalent to the amount of water proposed to be made available for recharge as mitigation as detailed in Section 5 below. Table 3 provides a monthly pumping schedule representative of TVC's supplemental use of groundwater for irrigation purposes. This monthly pattern is based upon an analysis of the historical irrigation requirement for the golf courses and on discussions with TVC operations personnel.

TVC's total irrigation requirements following the proposed transfers were developed by estimating consumptive use using evapotranspiration rates measured at the Hailey Ranger Station gage¹ for turf and native grasses. These ET rates were multiplied by the respective turf and native grass acres included in the proposed post-transfer TVC authorized irrigated acres.² A conveyance efficiency of 94 percent was applied to the consumptive use estimates to determine the irrigation demand at the turnouts from the Hiawatha. This 94 percent conveyance efficiency is generally representative of the overall efficiency of TVC's golf course sprinkler system. The post-transfer TVC consumptive use and irrigation demands are provided in Table 3.

5.0 Transfer to Mitigate Out-Of-Priority Groundwater Pumping

TVC's groundwater right 37-2623 is a relatively junior water right (priority date 1959). While conjunctive administration of surface and groundwater rights has not yet been applied in the upper portion of Water District 37 (the Big Wood River basin above Magic Reservoir) it is anticipated to occur in the future. When this happens, TVC's groundwater right is expected to be periodically out of priority (i.e., curtailed for the benefit of more senior surface water rights). For TVC to use this groundwater right under such conditions, mitigation is expected to be necessary to offset out-of-priority groundwater depletions to the Big Wood River.

TVC proposes to eliminate irrigation of 10.8 acres formerly irrigated using Irwin Golf Course's water rights. These lands lie within the authorized PPU of the Irwin Course water rights. The

¹ University of Idaho. Kimberly R&E Center. <http://www.kimberly.uidaho.edu/ETIdaho/>

² This includes the West 9 Village Green & Community Housing development carve-off and the 10.8 acre dry-up discussed in Sections 2.1 and 5.0, respectively.

water previously used to irrigate these lands would be recharged into the alluvial aquifer system of the Big Wood valley to mitigate groundwater pumping depletions.

5.1 Mitigation Recharge Credit

AMEC estimated the annual irrigation requirement for the 10.8 acres of dry-up land to determine the amount of water that should be applied to recharge to provide an appropriate offset to depletions attributable to TVC's ground water use. Figure 2 identifies the 10.8 acres proposed for dry-up.

Approximately 4.7 acres of the dry-up area consists of native grasses and the remaining 6.1 acres consists of turf. Table 4 presents the estimated consumptive use and irrigation requirements for these acres using the same techniques applied in Section 4.0 to estimate TVC's total irrigation requirements. This analysis indicates that a total of 12.8 acre-feet were historically consumptively used on the dry-up area. This is the amount that may be used for mitigation recharge purposes on an annual basis.

As of the 2013 irrigation season, TVC will no longer irrigate the dry-up parcel with TVC water rights. A portion of the dry-up land may continue to be irrigated using other water rights that the VCOA possesses or may acquire.

5.2 Recharge Operations

TVC proposes to recharge the alluvial aquifer system of the Big Wood valley using the portion of its surface water rights being removed from the 10.8 dry-up acres. This will be accomplished via recharge facilities constructed adjacent to those built by Dry Lot LLC, (Dry Lot). Dry Lot has previously received approval [Transfer No. 74449] from the Department for recharge to mitigate its own groundwater pumping depletions associated with irrigation of residential lots and common areas within the Valley Club residential subdivision. The recharge site is located on TVC-owned land in Township 3 North, Range 18 East, Section 20, NWSE, as shown in Figure 2.

In consideration of Dry Lot's use of TVC-owned land for its recharge facilities, the Dry Lot recharge facility was expanded slightly to accommodate TVC's own recharge needs. A separate recharge basin of 4,128 square feet and having a design capacity of 50 gpm or 15 acre-feet per year was provided for TVC under the terms of an agreement between TVC and Dry Lot. Other improvements in diversion facilities are also addressed in this agreement.

The TVC Irwin water rights previously used to irrigate the dry-up lands will be conveyed to the TVC recharge basin through main irrigation lines serving the West 9 golf course. These water

rights and associated allocation of flow rates proposed for recharge and remaining irrigation of TVC are listed in Table 5. The recharge flow rate for each individual water right in the Irwin Course portfolio was prorated based on ratio of dry-up acreage (10.8 acres) to the total authorized acreage under the Irwin Course water rights portfolio. For example the recharge portion for water right 37-577BV was calculated as:

$$1.56 \text{ cfs} * 10.8 \text{ acres} / 143.8 \text{ acres} = 0.12 \text{ cfs}$$

Water not prorated for recharge will continue to be conveyed to the TVC golf courses for irrigation use.

As previously noted, TVC will deliver up to 12.8 acre-feet of the Irwin water rights for recharge on an annual basis, although it is not contemplated that TVC necessarily will divert groundwater in every year to an extent that would produce 12.8 acre-feet of out-of-priority depletion. Consistent with the general terms and conditions of the approved Dry Lot application, at least 60 percent of this recharge water (9 acre-feet) will be recharged in the latter half of the irrigation season after June 1 to more closely match the timing of return flows of recharged water and depletions from TVC's groundwater pumping to the Big Wood River. Table 6 provides the monthly recharge and groundwater pumping schedules. This recharge schedule is consistent with the recharge schedule recently approved by the Department for the Dry Lot LLC transfer which also specifies the same percentage of recharge following June 1.

5.3 Aquifer and Big Wood River Impacts

Potential impacts to the underlying aquifer and Big Wood River as a result of the TVC's groundwater recharge and mitigation project were evaluated by Brockway Engineering, PLLC using a MODFLOW groundwater model of the Big Wood River Aquifer that has been reviewed by a technical review committee including staff from the Department. This Big Wood groundwater model was used by Brockway Engineering to evaluate the impacts of the approved Dry Lot LLC transfer and mitigation plan. Brockway's report of its evaluation of the TVC recharge project proposed as mitigation in the TVC Application using this model is provided in Appendix B.

The conclusions of this study indicate that the proposed TVC groundwater mitigation recharge transfer is not expected to result in detectable impacts at nearby wells. The recharge will result in an annual net gain to the Big Wood River. The groundwater modeling report is available in Appendix C for informational purposes.

5.4 Monitoring

Appropriate water flow controls and monitoring equipment will be installed to measure diversions from the Hiawatha Canal and recharge into the Dry Lot and TVC recharge basins, as well as groundwater pumping and ongoing deliveries of surface water to irrigation. TVC will control and measure all diversions from the Hiawatha Canal via the TVC pump.

6.0 Transfer to Consolidate Permissible Place of Use

TVC's Application also seeks to combine the present PPUs for the Irwin and West 9 Course into one integrated PPU that incorporates all of the presently authorized irrigated area on the Irwin and West 9 golf courses. The present PPUs for the Irwin and West 9 Course water rights constrain the use of the water rights to irrigation of the individual golf courses. For example, use of the West 9 water right (37-657B) is limited to irrigation solely of the West 9 Course. This restriction inhibits efficient water distribution and precludes the selective use of the most senior water rights to maintain critical features of the golf courses (e.g., tees and greens) in severe drought conditions. For example, if only the 1881 water right (37-657B) is in priority, TVC is currently allowed to irrigate the entire West 9 Course (including rough), but is precluded from irrigating even the greens on the Irwin Course. TVC desires to be able to use its most senior water rights to maintain the most important features of its golf courses if and when its more junior rights are not in priority. This will promote optimum use of TVC's water rights for the authorized purposes and enhance conservation of the water supply.

6.1 Proposed Integrated PPU and Authorized Irrigated Acreage

Table 7 describes the pre- and proposed post-transfer diversion rates and acres for each of the Irwin and West 9 water rights. Figure 3 presents the proposed integrated 276.7 acre PPU for both the Irwin and West 9 water right portfolios. This area encompasses all the areas the TVC is currently irrigating in addition to areas that TVC might wish to irrigate in the future, as a result of modification to the layout or configurations of tees, greens, fairways, etc.

Authorized irrigation will be limited to 208.3 acres within the proposed PPU, meaning that the total area irrigated at any one time in the PPU would not exceed 208.3 acres. The 208.3 acres is equivalent to the sum of the pre-transfer Irwin Course combined authorized irrigated acres of 143.8 and the West 9 Course's authorized irrigated acres, minus the 10.8 acres of land TVC will no longer irrigate ($143.8 + 75.3 - 10.8 = 208.3$ acres).

While this PPU transfer will not increase authorized irrigated acres, the transfer will improve TVC's flexibility to manage its supplies more efficiently. The most senior water rights can be reserved for, and distributed to, more critical areas of the Irwin and West 9 Courses without

expanding the irrigated acreage authorized by these rights. For instance, TVC will be able to apply the more junior of the Irwin Course water rights to less critical irrigated areas, such as native and rough, on both the Irwin and West 9 Courses. This will reserve the more senior water rights (e.g., the West 9 and Rockwell Bypass water rights) for more critical areas on both courses. This increased flexibility will help ensure that irrigation of critical areas can be maintained during extremely dry periods when and if only the most senior water rights may be available.

6.2 Irrigation Operations

Both existing golf courses include maintained turf areas (tees, greens, fairways and rough), areas of original and planted native vegetation, and ponds. Figure 4 shows the general layout of these features and Table 8 provides the current/planned acreage of each feature. Minor changes may be made to the specific acreage for each feature over time due to landscaping changes (e.g., reconfiguration of sand traps), however this will not change the total amount of irrigated acreage.

Original 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.

TVC irrigation is tightly regulated to ensure that areas are irrigated with a sufficient amount of water without over watering and making the courses less playable. The irrigation of both the Irwin and West 9 Courses is computer-controlled, incorporating continuous on-site weather observation and daily calculation of irrigation requirements. Irrigation areas are divided into zones. Application rates for each zone are customized using a comprehensive database containing information on the layout and operations of the Irwin and West 9 irrigation systems and configurations of individual sprinkler heads. This database includes the following information:

- Layout of the transmission lines and capacities
- Layout of the sprinkler heads including spacing between each head and set rotation
- Data on each sprinkler head including make and model, standard pressure at the bottom of each head, number of nozzles per head and number of heads per zone.
- Standard flow per each sprinkler head (gpm)

- Operational run times for each zone based on daily ET requirements and any manual adjustments made to compensate for isolated wet and dry spots

Operational run times may be adjusted for the various irrigation zones, regulating the amount of water applied to specific areas with a high degree of accuracy.

6.3 Irrigation Monitoring

TVC water rights are administered according to priority date. For example, TVC's most senior water rights are the West 9 right (37-657B), and the Irwin Course Rockwell water right (37-833K³). Following this PPU transfer, TVC will use its computerized system to closely manage and document the amount of water applied to specific areas according to the water rights in priority at a given time. All irrigation will be monitored to ensure that the amount of irrigation water applied and the acres to which it is applied are within the authorized acreage limits. When a call is made on the river, the diversion rates will be limited to the authorized conditions of the surface water rights in priority.

For example, if a call were to be such that the Rockwell right (37-833K) were the only right in priority, irrigation would be limited to the Rockwell right's individual authorized irrigated area of 136.7 acres. As shown in Table 8, the 136.7 authorized irrigation limit will provide enough acres for the irrigation of the most critical components of the golf courses (tees and greens and key portions of fairways). When the senior Rockwell and 37-657B (West 9 right) are both in priority, irrigation will not exceed the combined authorized area of 208.3 acres within the 276.7 acre PPU. The total amount of acres irrigated under any call scenario will not exceed the authorized acreage limit of the water rights in priority.

Delivery pressures and sprinkler specifications will continue to be used to calculate deliveries from each sprinkler head to specific golf course features.

7.0 Accounting

TVC will maintain systematic records of diversions at the turnouts, pump discharges, actually irrigated acres, monthly irrigation (via the pressurized irrigation system), groundwater pumping, and deliveries to recharge. These data will be reported annually to IDWR. Table 9 provides a template of the proposed annual accounting report.

³ Although the Rockwell right's nominal priority date is junior to the West 9 right, in times of scarcity the Rockwell right may be treated as the senior right in accordance to its decreed conditions.

References

Allen and Robison. 2006. *Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho*. <http://www.kimberly.uidaho.edu/ETIdaho/>

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1990-95. Water Resources Investigations Report 99-4175.

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.

Table 1 Water Rights on the Irwin and West 9 Courses

Existing Water Rights Specified in Water Right Documents									
Water Right No. [a]	Priority Date [b]	Source [c]	Period of Diversion [d]	Volume ¹ (Acre-feet per year) [e]	Beneficial Use [f]	Diversion Rate ² (cfs) [g]	Combined Diversion Rate ³ (cfs) [h]	Authorized irrigation Area within PPU ⁴ (acres) [i]	Combined Authorized Irrigation Area ^{5,6} (acres) [j]
Irwin Course Water Rights									
37-833K (Rockwell)	November 12, 1936	Big Wood River	4/15 to 10/31	n/a	Irrigation	0.69	7.24	143.8	143.8
					Recreation	0.06			
37-577BV	March 24, 1883	Big Wood River	4/15 to 10/31	n/a	Irrigation	1.56		143.8	
					Recreation	0.13			
37-494	May 1, 1886	Big Wood River	4/15 to 10/31	n/a	Irrigation	1.85		143.8	
					Recreation	0.15			
37-495	July 1, 1892	Big Wood River	4/15 to 10/31	n/a	Irrigation	2.59		143.8	
					Recreation	0.21			
37-577BU	March 24, 1883	Big Wood River	4/15 to 10/31	n/a	Irrigation	1.2	1.2	143.8	
37-2623	Sept 3, 1959	Ground Water	4/15 to 10/31	431.4	Irrigation	2.81	3.05	143.8	
					Recreation	0.24			
West 9 Course Water Rights									
37-657B	May 1, 1881	Big Wood River	4/1 to 11/1	n/a	Irrigation	1.53	1.65	89	75.3
			1/1 to 12/31		Recreation				
			1/1 to 12/31	13.4	Aesthetics	0.12			
			4/1 to 11/01	n/a	Diversion to Storage				
Total							13.14	n/a	219.1

¹ Present authorized volume of water that may be diverted on an annual basis. N/A indicates that the volume is not specified in the water right.

² Present authorized diversion rate for each individual water right unless otherwise noted

³ Present authorized cumulative diversion rate for a combined set of water rights specified in the conditions of approval unless otherwise noted

⁴ Present authorized irrigation acres in the PPU for each individual water right.

⁵ Present authorized acres that may be irrigated by a combined set of water rights within the PPU. This includes the carve-off for the Village Green and Community Housing developments.

⁶ Acres do not include the surface area of the ponds for the Irwin or West 9 courses.

Table 2 Historical Water Use on the Irwin and West 9 Courses (acre-feet/month)

<i>Irwin Course</i>									
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
2008	0.0	0.0	28.7	50.0	64.5	60.8	36.7	8.2	249.1
2009	0.0	4.2	38.6	7.1	54.2	44.5	37.6	5.5	191.7
2010	0.0	3.5	26.1	34.7	49.8	45.6	26.9	7.9	194.3
2011	0.0	3.2	24.3	32.4	46.4	42.5	25.1	7.4	181.4
Average	0.1	4.4	33.1	44.1	63.2	57.9	34.1	10.0	247.0
<i>West 9 Course</i>									
2007	0.4	7.1	21.7	24.3	36.4	27.5	14.0	3.8	135.2
2008	0.0	0.0	13.1	23.0	33.8	25.3	14.6	2.8	112.6
2009	0.0	2.7	12.3	3.4	21.5	19.5	15.7	1.2	76.2
2010	0.1	2.6	12.4	13.4	24.2	19.1	11.7	2.0	85.5
2011	0.1	2.6	12.5	13.5	24.4	19.3	11.8	2.0	86.2
Average	0.1	3.3	15.7	16.9	30.6	24.1	14.8	2.6	108.0

Note: Available irrigation data for 2010 and 2011 is limited to the annual irrigation on the following: 2010 irrigation on Irwin, 2011 irrigation on Irwin and West 9. Monthly irrigation rates were prorated using the monthly average percentage distribution from 2001 to 2009 on the Irwin Course and 2007-2009 on the West 9 Course. The West 9 annual irrigation was estimated assuming a linear correlation between the Irwin and West 9 annual irrigation in 2007, 2008, 2009 and 2011 ($r^2=0.95$)

Table 3 TVC Irrigation Demand and Monthly Pumping Schedule

Post Transfer Irrigated Acres

POU Area	Turf Grass	Native	Total
Irwin	123.8	13.3	137.1
West 9	45.6	25.7	71.2
Total	169.3	39.0	208.3

Average Evapotranspiration Rates (mm/day)*

Precipitation Deficit	Lawn, turf grass Irrigated	Native Grass, Range Grass Early Short Season
Apr	0.47	0.34
May	2.02	1.77
Jun	4.04	0.98
Jul	5.42	0.42
Aug	4.49	0.34
Sep	2.69	0.1
Oct	0.6	0

Final Precipitation Deficit (AF/month)

Month	Irwin		West 9		Total		Irrigation Requirements Assuming Efficiency of 94%			TVC Monthly Pumping Schedule	
	ET for Turf	ET for Native	ET for Turf	ET for Native	Irwin	West 9	Irwin	West 9	Total	Percentage Monthly Irrigation Requirement	Monthly Pumping Schedule (AF/month)
Apr	5.7	0.4	2.1	0.9	6.2	3.0	6.6	3.2	9.7	2.6%	0.33
May	25.4	2.4	9.4	4.6	27.8	14.0	29.6	14.9	44.5	11.9%	1.52
Jun	49.2	1.3	18.1	2.5	50.5	20.6	53.7	21.9	75.6	20.2%	2.59
Jul	68.2	0.6	25.1	1.1	68.8	26.2	73.2	27.9	101.1	27.0%	3.46
Aug	56.5	0.5	20.8	0.9	57.0	21.7	60.6	23.1	83.7	22.4%	2.87
Sep	32.8	0.1	12.1	0.3	32.9	12.3	35.0	13.1	48.1	12.9%	1.65
Oct	7.6	0.0	2.8	0.0	7.6	2.8	8.0	3.0	11.0	2.9%	0.38
Total (April-Oct)	245.5	5.3	90.3	10.2	250.7	100.5	266.8	107.0	373.7	100.0%	12.80

*Source: Based on Univ of ID ET data for Hailey-<http://www.kimberly.uidaho.edu/ETIdaho/>

Table 4 Dry-Up Credit Irrigation Demand

Irrigated Acres Proposed for Dry-Up

	Turf Grass	Native	Total
Acres	6.1	4.7	10.8

Average Evapotranspiration Rates (mm/day)*

Precipitation Deficit	Lawn, turf grass irrigated	Native Grass, Range Grasses Early Short Season
Apr	0.47	0.34
May	2.02	1.77
Jun	4.04	0.98
Jul	5.42	0.42
Aug	4.49	0.34
Sep	2.69	0.1
Oct	0.6	0

Transferable Mitigation Credit (AF)

Month	ET for Turf (AF)	ET for Native (AF)	Total ET (AF)	Irrigation Requirement Accounting for System Efficiency
Apr	0.3	0.0	0.3	0.3
May	1.3	0.0	1.3	1.3
Jun	2.4	0.0	2.4	2.6
Jul	3.4	0.0	3.4	3.6
Aug	2.8	0.0	2.8	3.0
Sep	1.6	0.0	1.6	1.7
Oct	0.4	0.0	0.4	0.4
Total (Apr-Oct)	12.1	0.0	12.1	12.8

*Source: Based on Univ of ID ET data for Hailey-<http://www.kimberly.uidaho.edu/ETIdaho/>

Table 5 Allocation of Irwin Water Rights for Groundwater Mitigation Recharge Transfer

Water Right No. [a]	Priority Date [b]	Source [c]	Period of Diversion [d]	Volume (AFA) [e]	Beneficial Use [f]	Diversion Rate (cfs)	
						Pre-Transfer [g]	Post Transfer [h]
37-833K (Rockwell)	November 12, 1936	Big Wood River	4/15 to 10/31	n/a	Irrigation	0.69	0.64
					Recharge	0	0.05
37-577BV	March 24, 1883	Big Wood River	4/15 to 10/31	n/a	Irrigation	1.56	1.44
					Recharge	0	0.12
37-494	May 1, 1886	Big Wood River	4/15 to 10/31	n/a	Irrigation	1.85	1.71
					Recharge	0	0.14
37-495	July 1, 1892	Big Wood River	4/15 to 10/31	n/a	Irrigation	2.59	2.40
					Recharge	0	0.19
37-577BU	March 24, 1883	Big Wood River	4/15 to 10/31	n/a	Irrigation	1.2	1.11
					Recharge	0	0.09
Total						7.89	7.89

Table 6 Recharge and Groundwater Pumping Schedules

Month	Recharge	Groundwater Pumping
April	1.54	0.32
May	3.58	1.46
June	4.61	2.58
July	3.07	3.49
Aug	0.00	2.89
Sept	0.00	1.67
Oct	0.00	0.38
Total	12.80	12.80

Table 7 Pre and Post Transfer Diversion Rates and Authorized Acres

Water Right No. [a]	Priority Date [b]	Source [c]	Period of Diversion [d]	Volume (AFA) [e]	Beneficial Use [f]	Pre-Transfer		Post Transfer		Pre-Transfer		Post Transfer		Pre-Transfer	Post Transfer		
						Diversion Rate (cfs) [g]	TVC Combined Diversion Rate (cfs) [h]	Diversion Rate ¹ (cfs) [i]	TVC Combined Diversion Rate (cfs) [j]	Authorized Irrigation Acres [k]	Combined Authorized Irrigation Acres [l]	Authorized TVC Irrigation Acres ² [m]	Combined Authorized TVC Irrigation Acres [n]	Combined PPU [o]	Combined PPU [p]		
Irwin Course Water Rights																	
37-833K (Rockwell)	12-Nov-36	Big Wood River	4/15 to 10/31	n/a	Irrigation	0.69	7.24	0.64	7.24	143.8	143.8	133.0	133.0	2,560	276.7		
					Recreation	0.06		0.06									
					Recharge	0		0.05									
37-577BV	March 24, 1883	Big Wood River	4/15 to 10/31	n/a	Irrigation	1.56		1.44		143.8		1.71				143.8	133.0
					Recreation	0.13		0.13									
					Recharge	0		0.12									
37-494	May 1, 1886	Big Wood River	4/15 to 10/31	n/a	Irrigation	1.85		1.71		143.8		2.40				143.8	133.0
					Recreation	0.15		0.15									
					Recharge	0		0.14									
37-495	July 1, 1882	Big Wood River	4/15 to 10/31	n/a	Irrigation	2.59		2.40		143.8		0.21				143.8	133.0
					Recreation	0.21		0.21									
					Recharge	0		0.19									
37-577BU	March 24, 1883	Big Wood River	4/15 to 10/31	n/a	Irrigation	1.2	1.20	1.11	1.20	143.8		133.0					
					Recharge	0		0.09									
37-2623	Sept 3, 1959	Groundwater	4/15 to 10/31	431.4	Irrigation	2.81	3.05	2.60	2.84	143.8		133.0					
					Recreation	0.24		0.24									
West 9 Course Water Rights																	
37-657B	May 1, 1881	Big Wood River	4/1 to 11/1	n/a	Irrigation	1.53	1.65	1.53	1.65	75.3	75.3	75.3	75.3	89			
			1/1 to 12/31		Recreation												
			1/1 to 12/31	13.4	Aesthetics	0.12		0.12									
			4/1 to 11/01	n/a	Diversion to Storage												
Total						n/a	13.14	n/a	12.93	n/a	219.1	n/a	208.3	2649.0	276.7		

¹ This includes the "dry-up" of the Irwin rights and the VGHOA carve-off for the West 9 water right. All diversion rates were prorated based on changes in acres.

² Authorized TVC irrigation following the VGHOA carve-off (18.36 acres) of the West 9 right and reduction in Irwin water right acres (10.8 acres) following "dry-up."

Table 8 Post Transfer Irrigation by Water Right Priority

Calling Water Right	Priority Date	Source	Period of Diversion	Recharge Diversion Rate (cfs)		Irrigation Diversion Rate (cfs)		Authorized Irrigation Area (acres)		Area by Feature Based on Current and Planned Landscaping* (acres)						
				Individual Water Right	Combined	Individual Water Right	Combined	Individual Water Right	Combined	Tees	Greens	Fairway	Rough	Native	Total	
37-833K (Rockwell)	Nov 12, 1936 (senior to other rights)	Big Wood River	4/15 to 10/31	0.05	0.05	0.64	0.64	136.7	136.7	4.8	4.8	46.8	80.3	0.0	136.7	
37-657B	May 1, 1881	Big Wood River	4/1 to 11/1	0.00	0.05	1.53	2.17	75.3	208.3	4.8	4.8	46.8	112.9	39.0	208.3	
37-577BV	March 24, 1883	Big Wood River	4/15 to 10/31	0.12	0.17	1.44	3.61	133.0	208.3	4.8	4.8	46.8	112.9	39.0	208.3	
37-577BU	March 24, 1883	Big Wood River	4/15 to 10/31	0.09	0.26	1.11	4.72	133.0	208.3	4.8	4.8	46.8	112.9	39.0	208.3	
37-494	May 1, 1886	Big Wood River	4/15 to 10/31	0.14	0.40	1.71	6.43	133.0	208.3	4.8	4.8	46.8	112.9	39.0	208.3	
37-495	May 1, 1886	Big Wood River	4/15 to 10/31	0.19	0.59	2.40	8.83	133.0	208.3	4.8	4.8	46.8	112.9	39.0	208.3	
37-2623	Sept 3, 1959	Ground Water	4/15 to 10/31	0.00	0.59	2.81	11.64	133.0	208.3	4.8	4.8	46.8	112.9	39.0	208.3	
Total				0.59	n/a	11.64	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	

* The irrigated area by feature may change due to minor landscaping changes over time. Such changes would not increase the total irrigated acres beyond the authorized limits.

Irrigation Year

[illegible]

Groundwater Pumping and Recharge		
Month	Groundwater Pumping (AF/month)	Recharge (AF/month)
April		
May		
Jun		
July		
Aug		
Sept		
Oct		
Total		

- a) Enter calling right
- b) Enter period of call
- c) Enter authorized combined recharge diversion rate (See Table 8)
- d) Enter authorized combined irrigation diversion rate (See Table 8)
- e) Enter authorized combined irrigation area (See Table 8)
- f) Enter maximum recharge rate during period
- g) Enter maximum diversion rate during period
- h) Enter irrigated acres of tees on Irwin and West 9 courses
- i) Enter irrigated acres of greens on Irwin and West 9 courses
- j) Enter irrigated acres of fairways on Irwin and West 9 courses
- k) Enter irrigated acres of rough on Irwin and West 9 courses
- l) Enter irrigated acres of native on Irwin and West 9 courses
- m) Enter total irrigated area. This should be the same or less than the authorized combined irrigation area specified in column e.

Appendix A

Figures

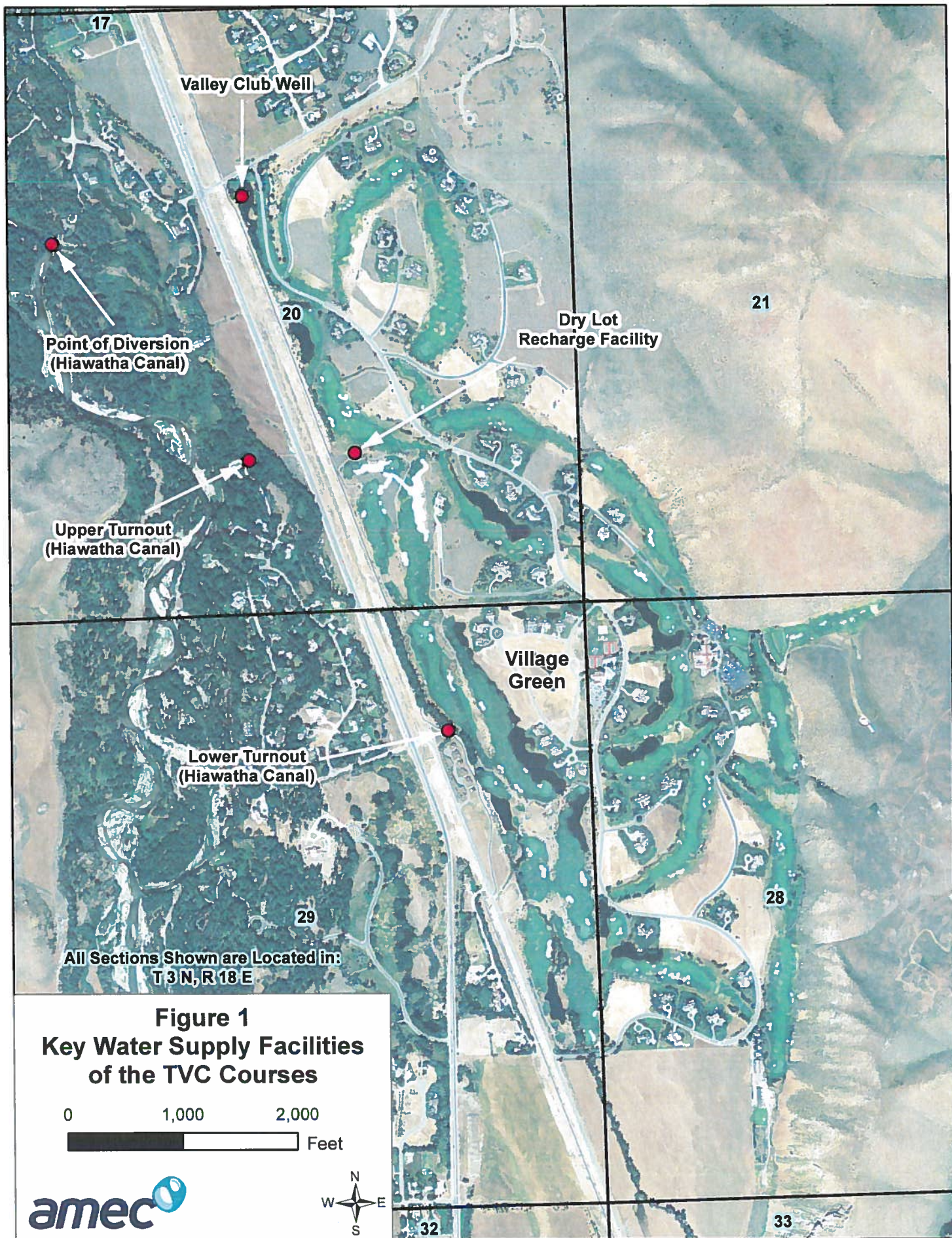
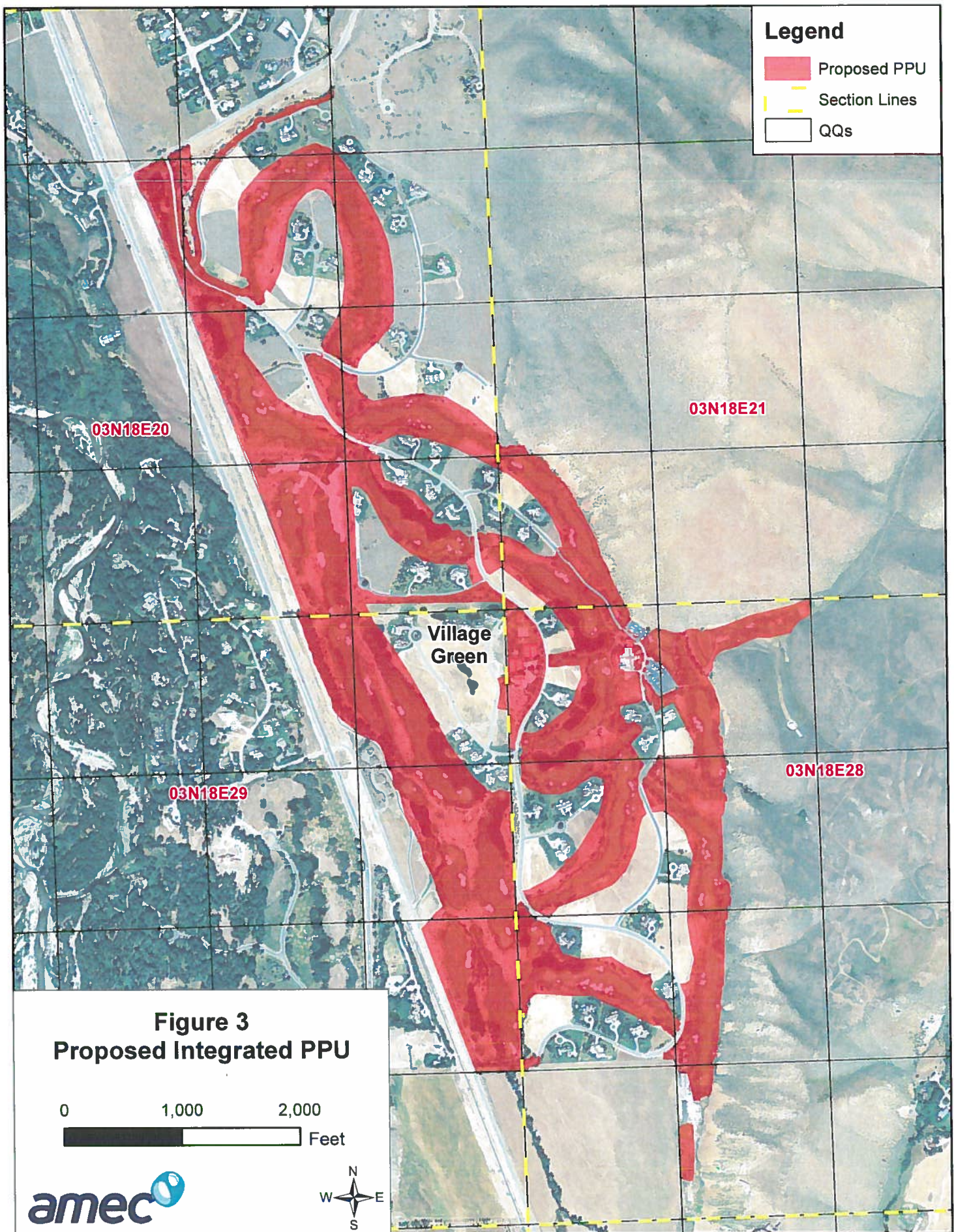


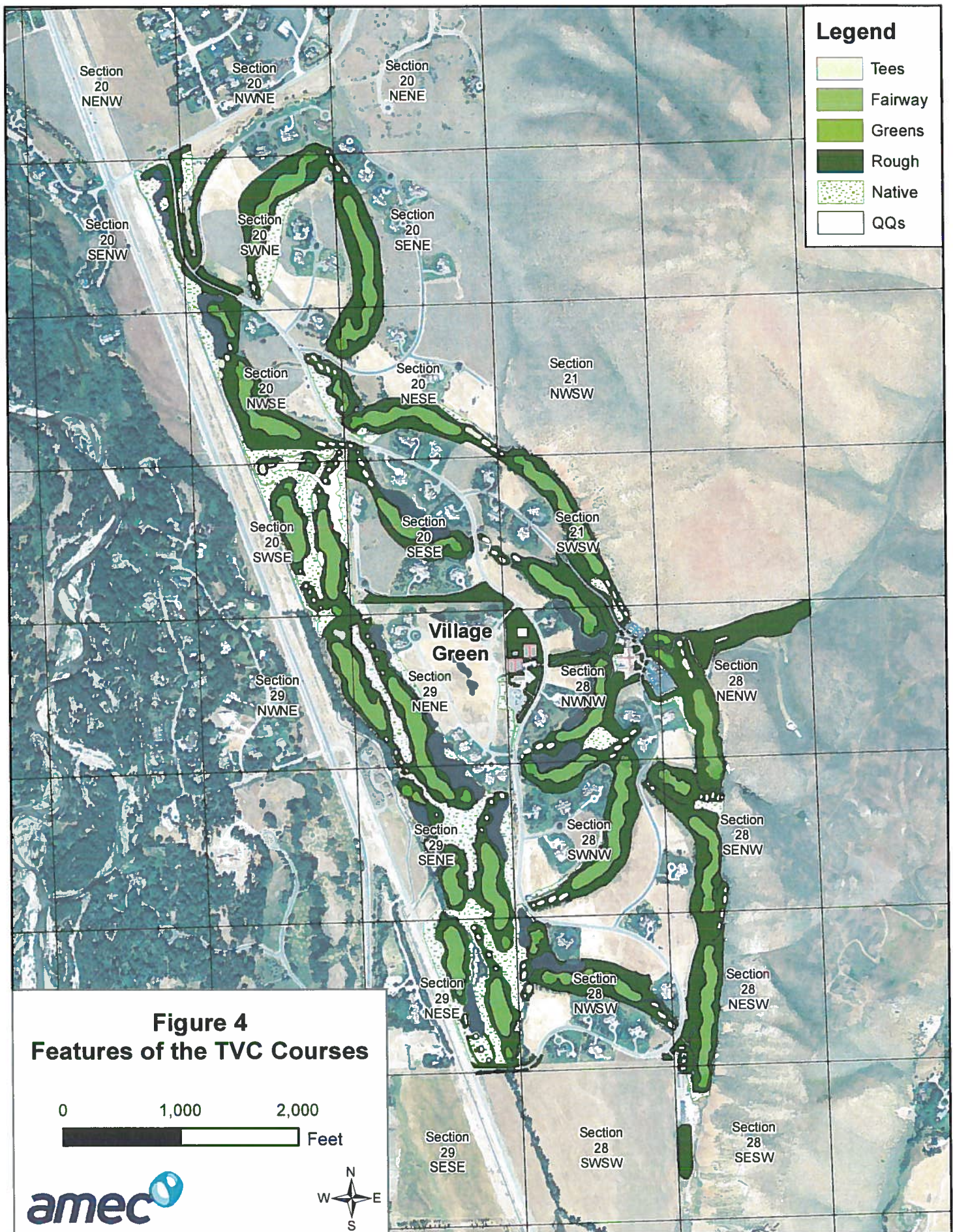
Figure 1
Key Water Supply Facilities
of the TVC Courses

0 1,000 2,000
Feet









Appendix B

Groundwater Modeling

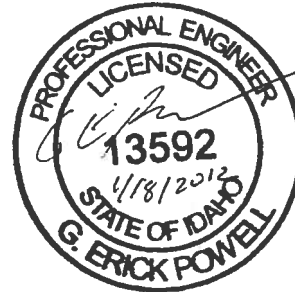
Project No. 665-02-2010

Big Wood Aquifer and River Simulated Response to Proposed Valley Club Recharge and Extraction Using a Big Wood River Aquifer Groundwater Model

Prepared for:

Valley Club, Inc.
P.O. Box 252
Sun Valley, Idaho 83353

January 18, 2012



For information concerning this report, contact
G. Erick Powell, Ph.D., P.E.



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

2016 NORTH WASHINGTON, SUITE 4
TWIN FALLS, IDAHO 83301

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Big Wood Aquifer and River Simulated Response to Proposed Valley Club Recharge and Extraction Using a Big Wood River Aquifer Groundwater Model

Prepared by: Brockway Engineering, PLLC
G. Erick Powell, Ph.D., P.E.
Date: January 18, 2012

A. Introduction

Valley Club, Inc. is proposing to change the nature of use of 12.8 acft of Big Wood River water from irrigation to recharge. Recharge will occur during the beginning portion of the irrigation season and is anticipated to be completely finished by July 31st. A water right transfer has been prepared and filed with the Idaho Department of Water Resources (IDWR) by the Valley Club to change the water right nature of use from irrigation to recharge. Recharge volume will mitigate for groundwater pumping of 12.8 acft of consumptive use.

In order for IDWR to fully evaluate the pumping and recharge impacts to Big Wood Aquifer levels and Big Wood River reaches, Brockway Engineering developed a MODFLOW groundwater model of the Big Wood River Aquifer (Brockway Engineering, 2009). This model is currently the only adequate tool available to evaluate water right transfers and permit applications in the Big Wood Valley. The model was reviewed by a technical review committee, including personnel at IDWR and IWRRI. This report contains the simulated results of the proposed project.

The simulated recharge schedule proposes recharge occurring from April 15th through July 31st (107 days) to ensure that the recharge volume (12.8 acft) will be recharged. The extraction schedule extends throughout the irrigation season and is based on the precipitation deficit for irrigated turf in Hailey published by Allen and Robison (2009). Table 1 contains the simulated seasonal recharge and extraction of 12.8 acft. Figure 1 presents the recharge and extraction monthly volumes in graph form. Figure 2 provides a vicinity overview of the project, including the recharge and extraction location.

Table 1: Monthly recharge and extraction volumes for model simulation. Trend based on published precipitation deficit values for irrigated turf in Hailey, Idaho (Allen and Robison, 2009).

	April	May	June	July	August	September	October	Total
Days	15	31	30	31	31	30	31	199
Prec. Deficit^b (mm/day^a)	0.14	2.12	4.08	5.51	4.50	2.76	0.35	597 ^a
Recharge (acft/month^a)	1.54	3.58	4.61	3.07	0	0	0	12.8 ^a
Extraction (acft/month^a)	0.32	1.46	2.58	3.49	2.89	1.67	0.38	12.8 ^a

^a Units for values are shown under the row header, except for the total column. The time duration for the total is over the entire irrigation season.

^b Published Precipitation Deficit values for irrigated turf in Hailey by Allen and Robison (2009).

B. Results

IDWR previously reviewed the groundwater model (Brockway Engineering, 2009) used to evaluate the impacts to the Big Wood River Aquifer and River and the model has been used previously for transfer/permit evaluations. The baseline model results (no simulated project recharge or extraction) were compared to the results from the proposed project. Changes to the aquifer and Big Wood River were noted to provide IDWR necessary information to evaluate and process the applications.

Figure 3 indicates the location of the model nodes used to evaluate the impact from the proposed project. Points A, B, C, D, and E are shown with locations ranging from north of the proposed project, within the Heatherlands development, to south of the proposed project, at the mouth of Indian Creek. All five nodes were used to evaluate the changes of groundwater surface elevations from the baseline model data and the Valley Club, Inc. scenarios.

Figures 4 through 8 show the groundwater elevations of the baseline data and the model results. The largest decrease in water surface elevation occurs at point B, located immediately north of the extraction near Ohio Gulch road, of 0.04 ft. This decrease in water surface elevation is less than the annual variation in water surface elevations at point B of 1.2 ft. The proposed project will likely result in undetectable impacts at surrounding wells.

Six Big Wood River reaches were evaluated to quantify the change in the river/aquifer exchange based on the proposed scenarios. Figure 9 identifies the location of the river reaches. Figure 10 shows annual changes in river reach gain/loss based on the original and proposed project in acre-feet. The zero line in Figure 10 represents the baseline model data. Changes to the Big Wood River reaches are shown with annual river reach loss or gain (positive = river gain; negative = river loss).

Results show an annual loss of less than 1 ac-ft/year (-0.5 ac-ft/year) in Reach 1 (Northern Boundary to Starweather Bridge); Reach 2 (Starweather Bridge to Deer Creek Bridge) showed a river annual gain of 2.8 ac-ft/year; all remaining river reaches had either minimal (less than 0.5 ac-ft/year) or zero river reach gain.

C. MOD-PATH

The aquifer flow vectors near the Valley Club and the proposed recharge location are shown in Figure 11. The plotted flow vector arrow size is a function of the vector velocity, with larger arrows indicating a larger velocity. The aquifer velocity is highest near the Big Wood River and is the slowest at the valley edges, near the mountains, as would be expected. The aquifer flows down gradient, parallel to the Big Wood valley. In Figure 11, the flow vectors at the point of proposed recharge are parallel to Highway 75. Notice that flow vectors do not indicate aquifer flow from the valley edges towards the Big Wood River or the domestic wells located west of the proposed extraction well.

Aquifer underflow at this point is approximately 10,400 ac-ft/year as calculated from the model results. The month with the most aquifer underflow per day was determined to be August with 28.8 ac-ft/day while March was determined to be the month with the least amount of aquifer underflow per day at 28.1 ac-ft/day. The underflow at the northern boundary of the model was set to be 3,700 acft/year and seasonally distributed based on the USGS observation well south of Bellevue, Idaho. The average daily underflow (ac-ft/day) and flow (cfs) increases from the northern boundary to the Valley Club. The increase of underflow can be attributed to the surface water seepage from the Big Wood River, irrigation canals, precipitation recharge, and irrigation infiltration. These sources provide sufficient water to account for the increase of underflow between the northern boundary and the Valley Club. The proposed recharge volume is 12.8 ac-ft/year or about 0.12% of the total volume of annual aquifer underflow.

The flow paths and particle velocity of the proposed recharge were evaluated using MODPATH. MODPATH is a post-processing package added to MODFLOW to compute three-dimensional flowpaths using the MODFLOW output from steady-state or transient groundwater flow simulations. MODPATH computes the particle path by tracking specific particles from one cell to the next until the particle reaches a boundary, an internal sink/source, or other termination criteria. For our simulations, the termination criterion was a duration of 365 days. MODPATH allows for forward or backward particle tracking analyses to be performed for transient simulations.

MODPATH was evaluated using the MODFLOW transient recharge simulation results of the Big Wood Aquifer Groundwater Model. Individual recharge particles were forward tracked from the proposed recharge location over a period of 1-year. Recharge particles traveled an average distance of 2480 ft over 365 days, resulting in an average particle flow velocity of 6.8 ft/day. The boundary of the recharge particle flow path can be seen in Figure 12. The flow path and velocities follow the flow vectors presented in Figure 11, as would be expected.

Concern has been raised by IDWR during the evaluation of similar recharge projects of potential contamination of nearby wells, including domestic wells. According to the IDWR well location shapefile, there are no wells located within the proposed recharge flow path (Figure 12). A 500-ft buffer was placed around each nearby well. Only one nearby well (Well ID no. 340792) is within 500-ft (well located 458 ft from the flow path boundary) of the simulated recharge flow path. MODPATH was used to backwards track particles that terminate at the location of Well ID no. 340792; the capture zone of this well was evaluated for a period of 1 year (Figure 12). The capture zone extends parallel to the recharge flow path, and according to the MODPATH simulation the well capture zone and the recharge flow path do not intersect.

The maximum recharge rate proposed by the recharge project is 0.11 cfs (50 gpm) and the average rate is 0.060 cfs (27 gpm). Comparisons were made to the seepage from the Hiawatha Canal. The Hiawatha Canal location is also shown in Figure 12. Allen Merritt, IDWR Southern Region, estimated the seepage from the Hiawatha Canal by the Worstell Method. According to Merritt, the cumulative loss from the Hiawatha Canal headgate at the Big Wood River downstream to the location of the domestic well (Well ID no. 340792) is 4.71 cfs over a distance of about 3800 ft. This seepage rate over an irrigation season duration of 150 days would accumulate to 1399 acre feet being recharged to the aquifer. By comparison, the proposed recharge from the infiltration basins for the season is proposed to be 12.8 acre feet or 0.9% of the recharge from the Hiawatha canal. The proposed average recharge rate of 0.060 cfs is 1.3% of the seepage from the Hiawatha Canal downstream to the location of the domestic well. The cumulative loss from the Hiawatha Canal headgate on the Big Wood River to the southern boundary of the Valley Club is 5.02 cfs over a distance of 9175 ft. The proposed average recharge rate is also 1.2% of the seepage from the Hiawatha Canal to the southern boundary of the Valley Club. The capture zone of the domestic well follows the Hiawatha Canal, which indicates that any future contamination that may occur in the domestic well would most likely be due to seepage from the Hiawatha Canal and not the proposed recharge project. To the extent seepage occurs from the Hiawatha Canal in the vicinity of any of the wells of concern, this would tend to create a positive ground water gradient eastward, toward the recharge infiltration galleries. Seepage from the Hiawatha Canal would create a hydrologic barrier to the transport of recharge water toward the domestic well(s) since the recharge rate from the Hiawatha seepage is much greater than the infiltration from the basins, Figure 12.

D. Summary

1. Valley Club, Inc proposes to recharge 12.8 acft of water between 4/15 and 7/31. Recharge water will serve as mitigation for 12.8 acft of extraction.
2. Of the five locations that simulated the impact of the proposed project, the greatest impact was seen at Point B with a maximum season impact of 0.04 ft. The simulated seasonal fluctuation at this site is 1.2 ft. The proposed extraction will likely result in undetectable impacts at surrounding wells.
3. Model results indicated minimum impacts to Big Wood River, as shown.
4. MOD-PATH simulations showed recharge pathways and nearby domestic well capture zones. MODPATH results indicate that recharged water will not interfere with nearby wells within 365 days.

E. References

Brockway Engineering, 2009. Development of a Groundwater Flow Model for the Big Wood River Aquifer: East Fork to Bellevue. Submitted to IDWR – Feb. 3. 2009. Brockway Engineering, PLLC. Twin Falls, Idaho.

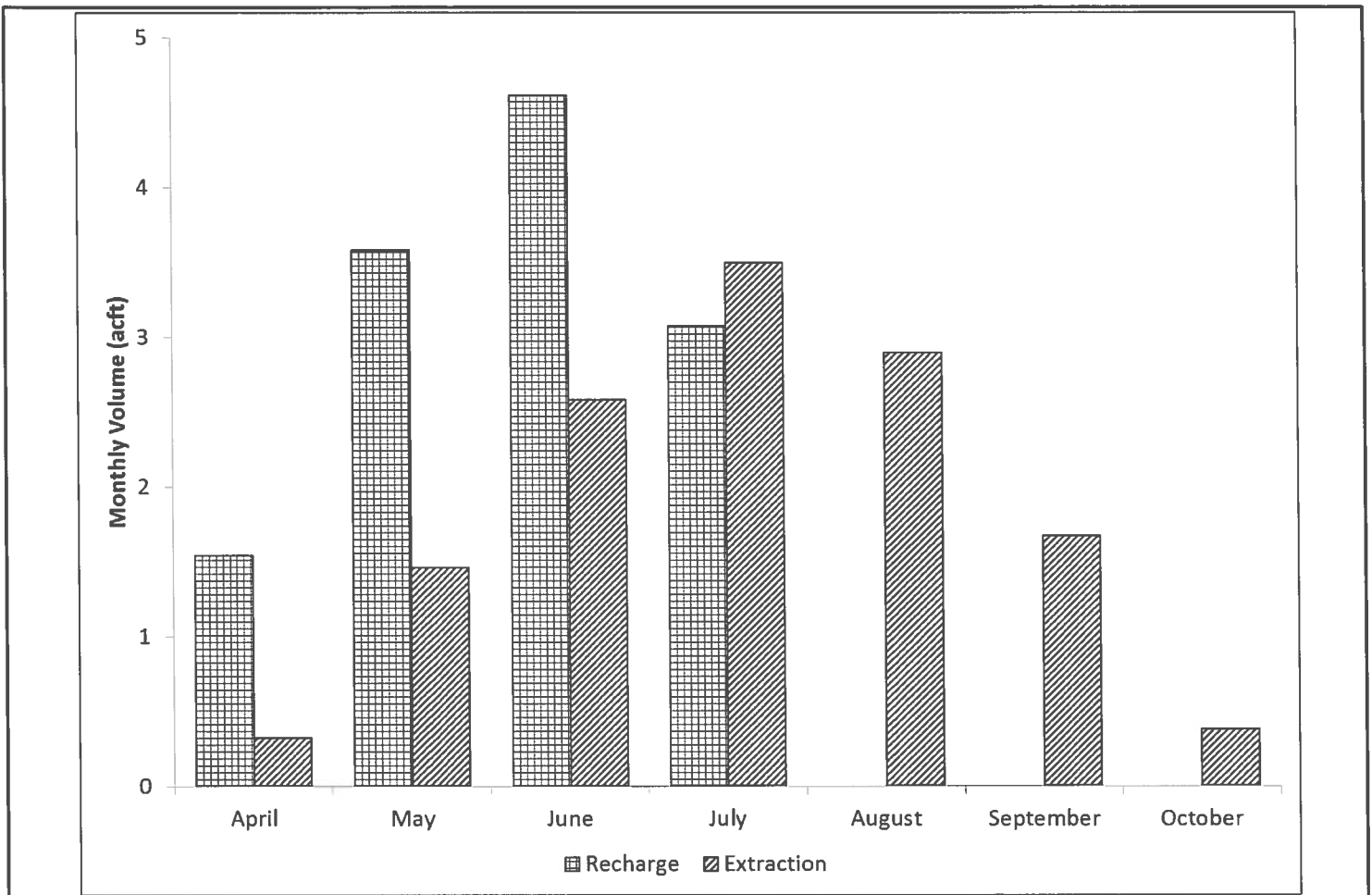


FIGURE 1: PROPOSED VALLEY CLUB, INC RECHARGE AND EXTRACTION MONTHLY VOLUMES
VALLEY CLUB, INC GROUNDWATER EVALUATION
BIG WOOD VALLEY AQUIFER

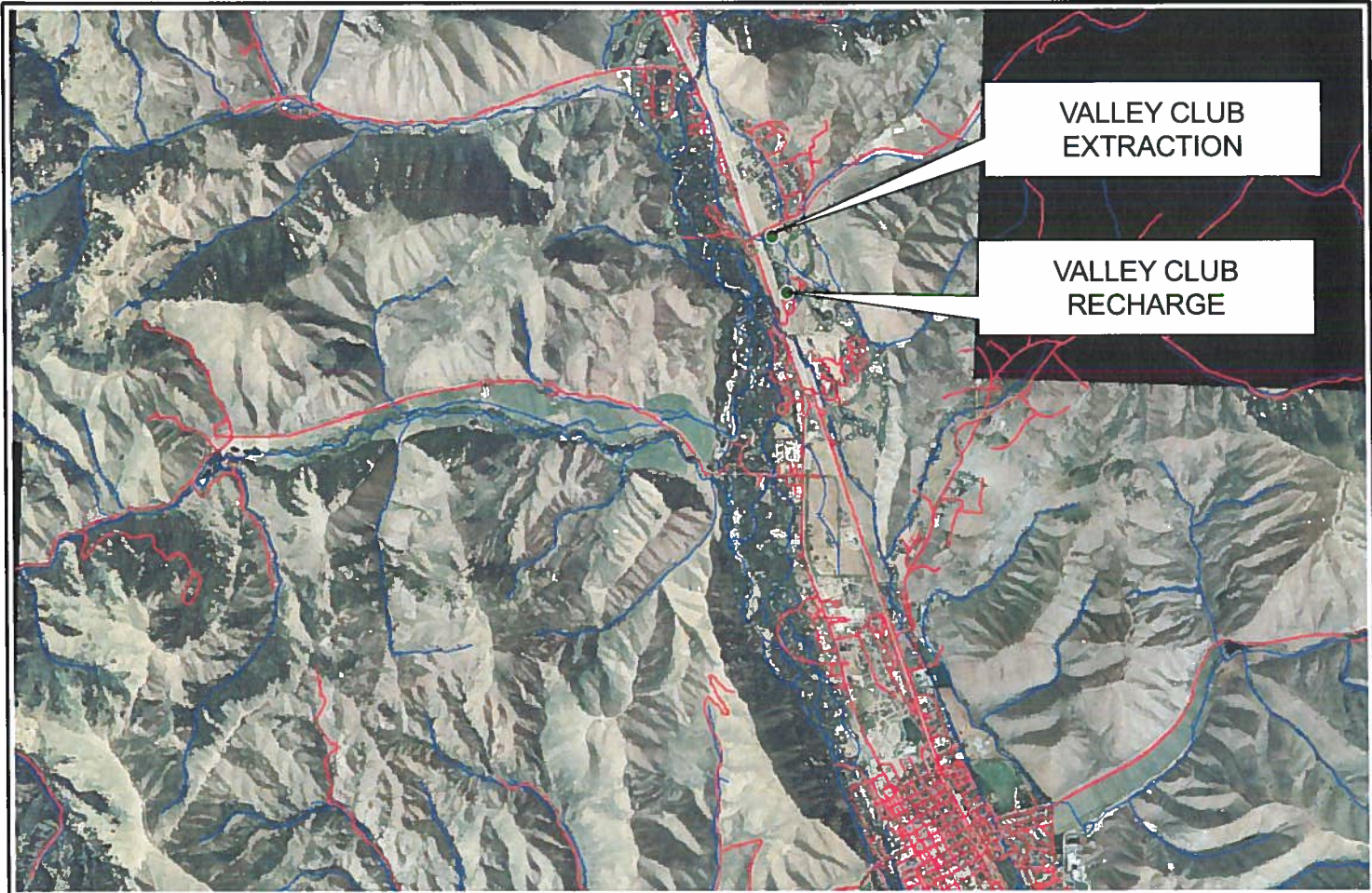


FIGURE 2: VICINITY MAP OF BIG WOOD RIVER VALLEY
NORTH OF HAILEY, BLAINE COUNTY, IDAHO
NAIP 2006 AERIAL PHOTO

LEGEND
— BLAINE COUNTY ROADS
— WATERWAYS



FIGURE 3: MODFLOW NODES USED FOR AQUIFER EVALUATION
VALLEY CLUB, INC RECHARGE PROJECT

NAIP 2006 AERIAL PHOTO

LEGEND

- MODFLOW Obs Nodes
- MODFLOW Boundary

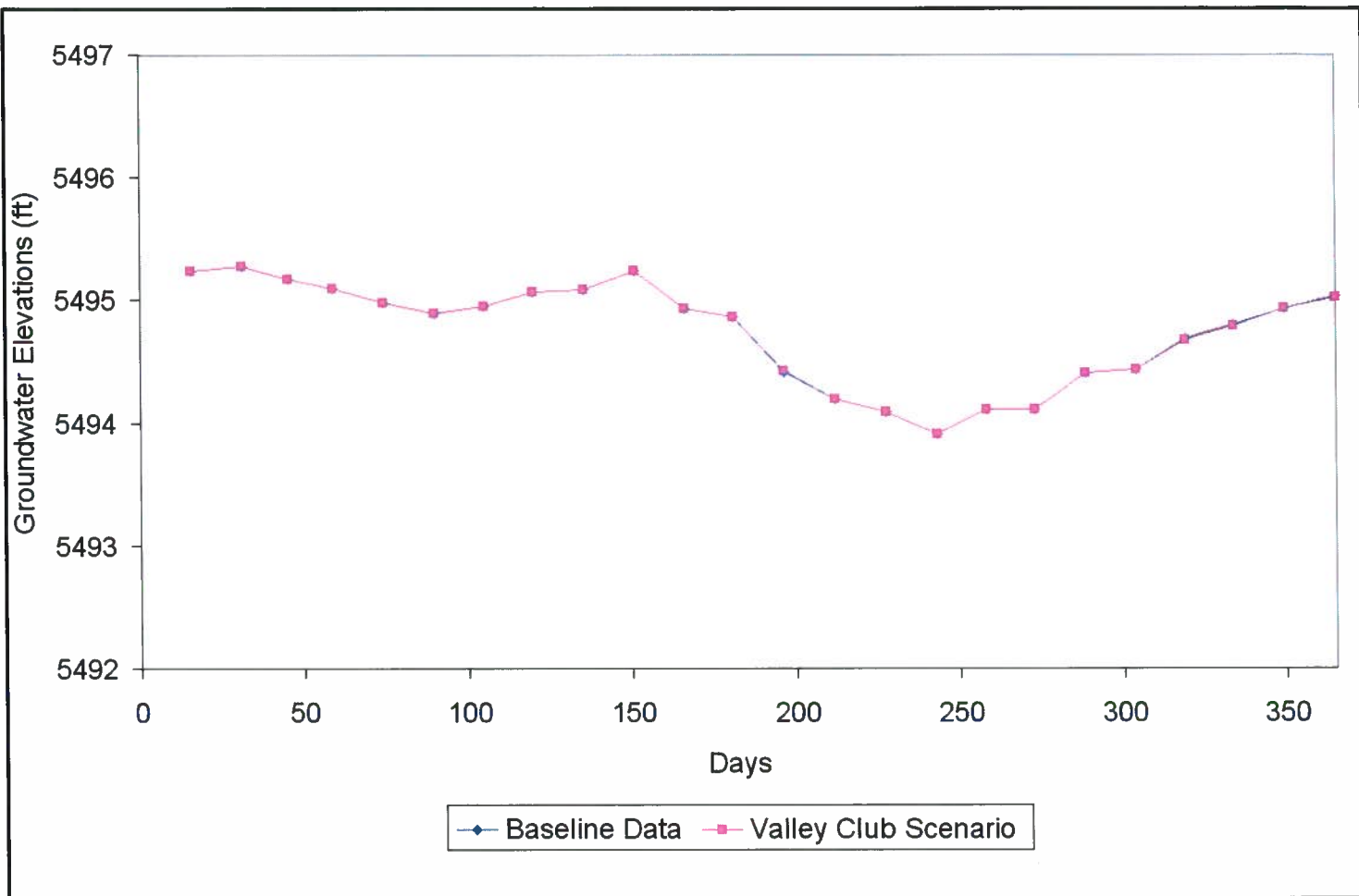


FIGURE 4: SIMULATED GROUNDWATER ELEVATIONS AT POINT A: HEATHERLANDS
VALLEY CLUB, INC RECHARGE PROPOSAL
BIG WOOD VALLEY AQUIFER GROUNDWATER MODEL

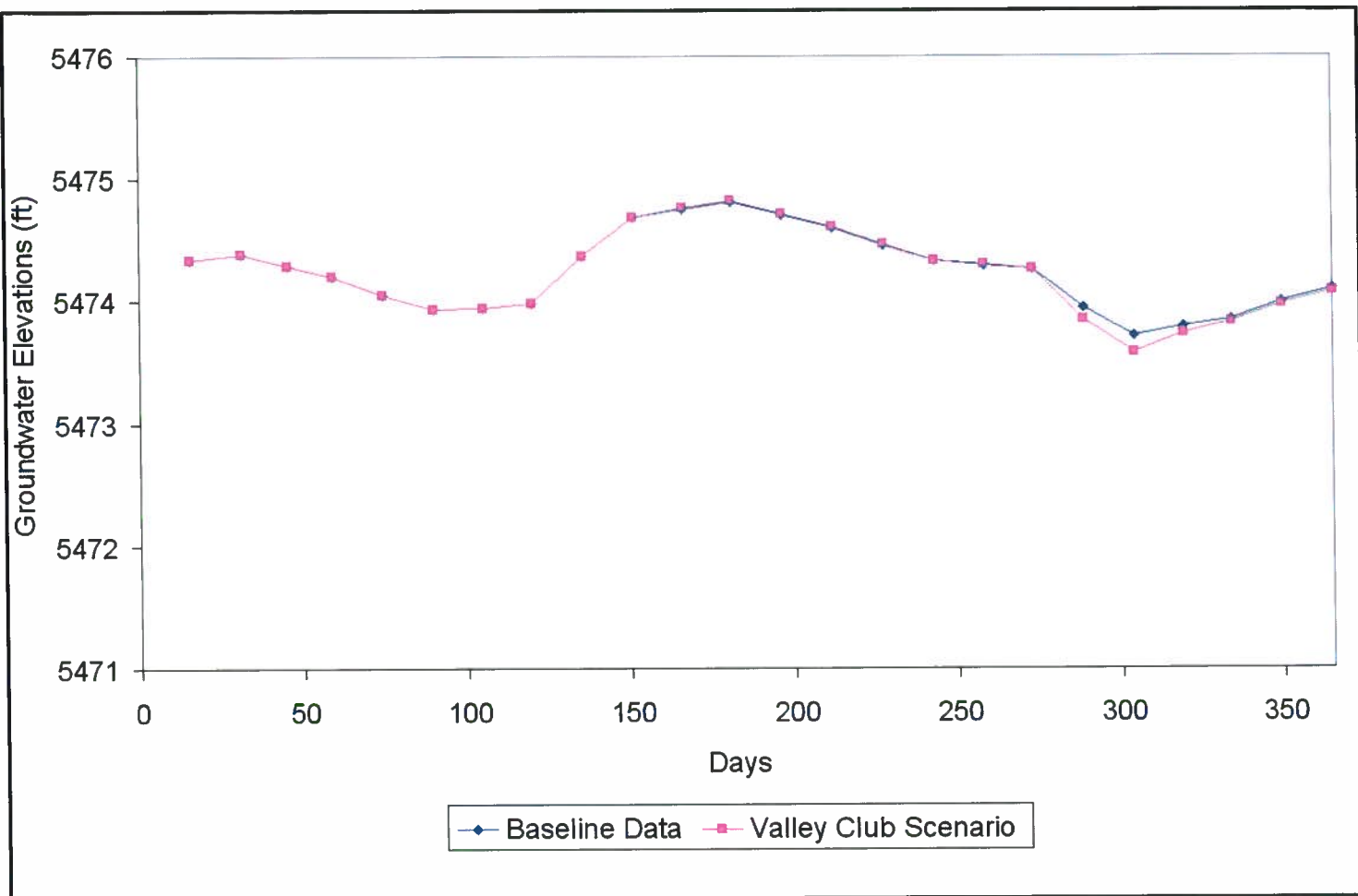


FIGURE 5: SIMULATED GROUNDWATER ELEVATIONS AT POINT B: NORTH OF VALLEY CLUB
VALLEY CLUB, INC RECHARGE PROPOSAL
BIG WOOD VALLEY AQUIFER GROUNDWATER MODEL

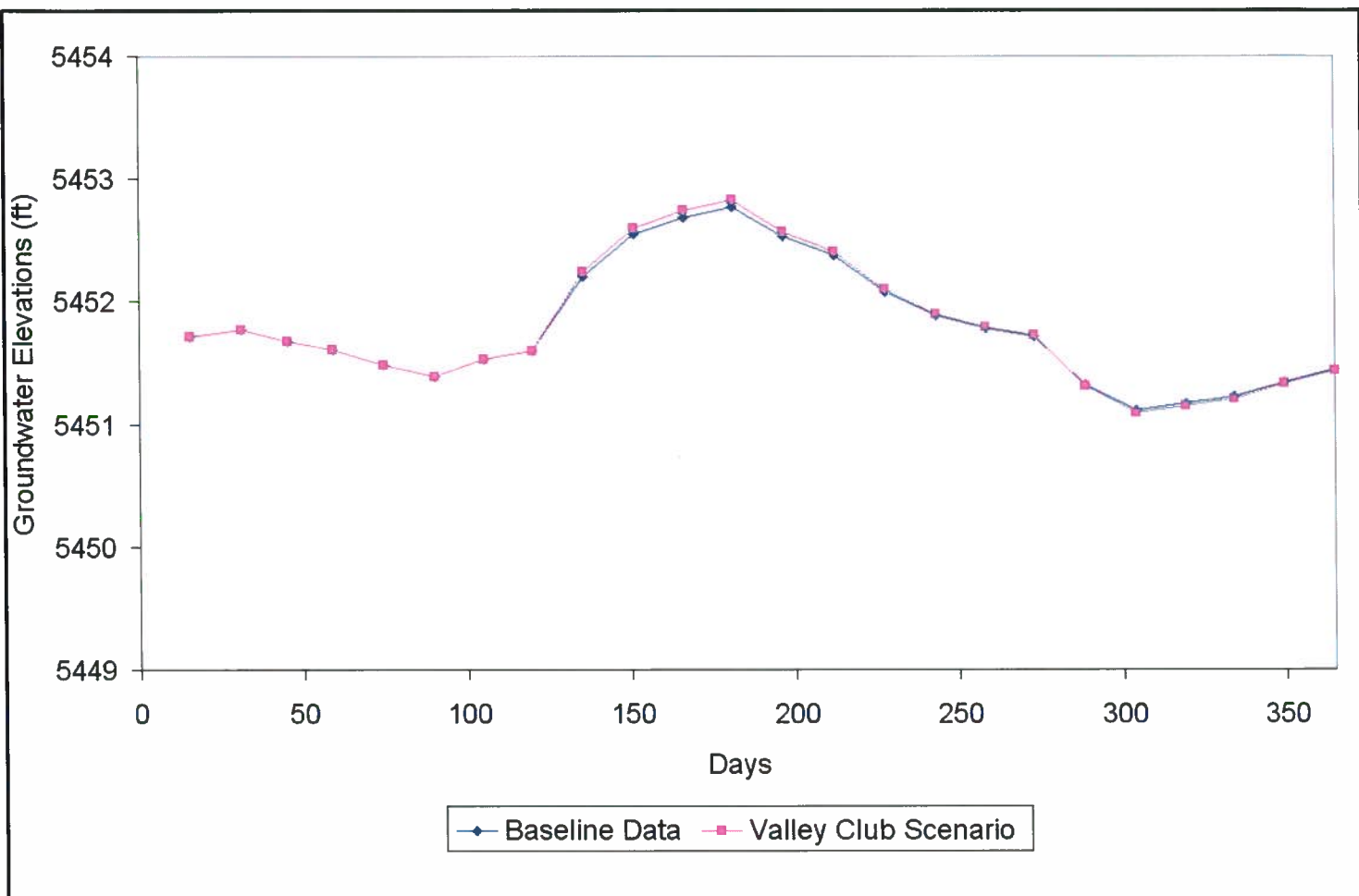


FIGURE 6: SIMULATED GROUNDWATER ELEVATIONS AT POINT C: SOUTH OF VALLEY CLUB
VALLEY CLUB, INC RECHARGE PROPOSAL
BIG WOOD VALLEY AQUIFER GROUNDWATER MODEL

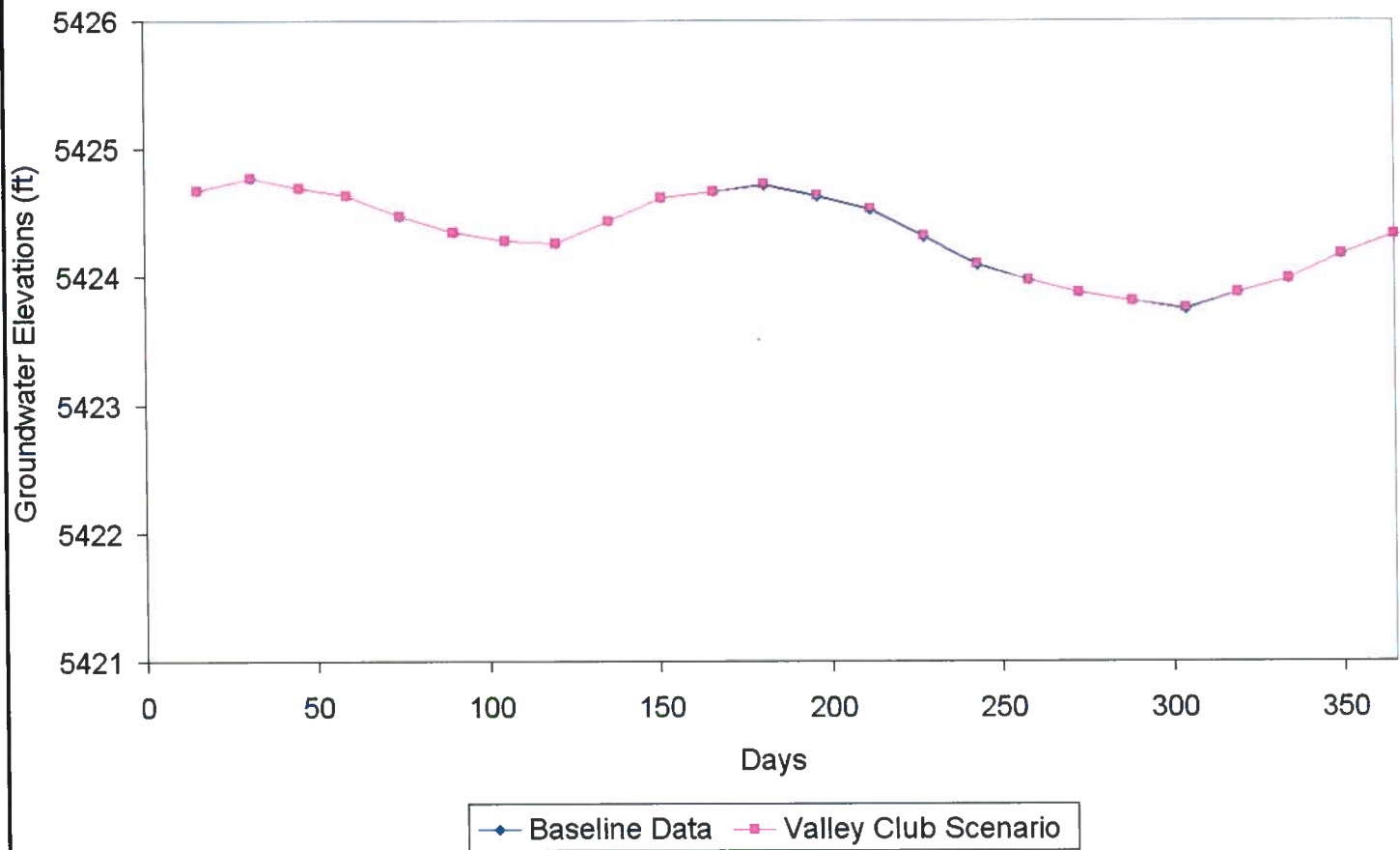


FIGURE 7: SIMULATED GROUNDWATER ELEVATIONS AT POINT D: NORTH OF KSKI PROPERTY
VALLEY CLUB, INC RECHARGE PROPOSAL
BIG WOOD VALLEY AQUIFER GROUNDWATER MODEL

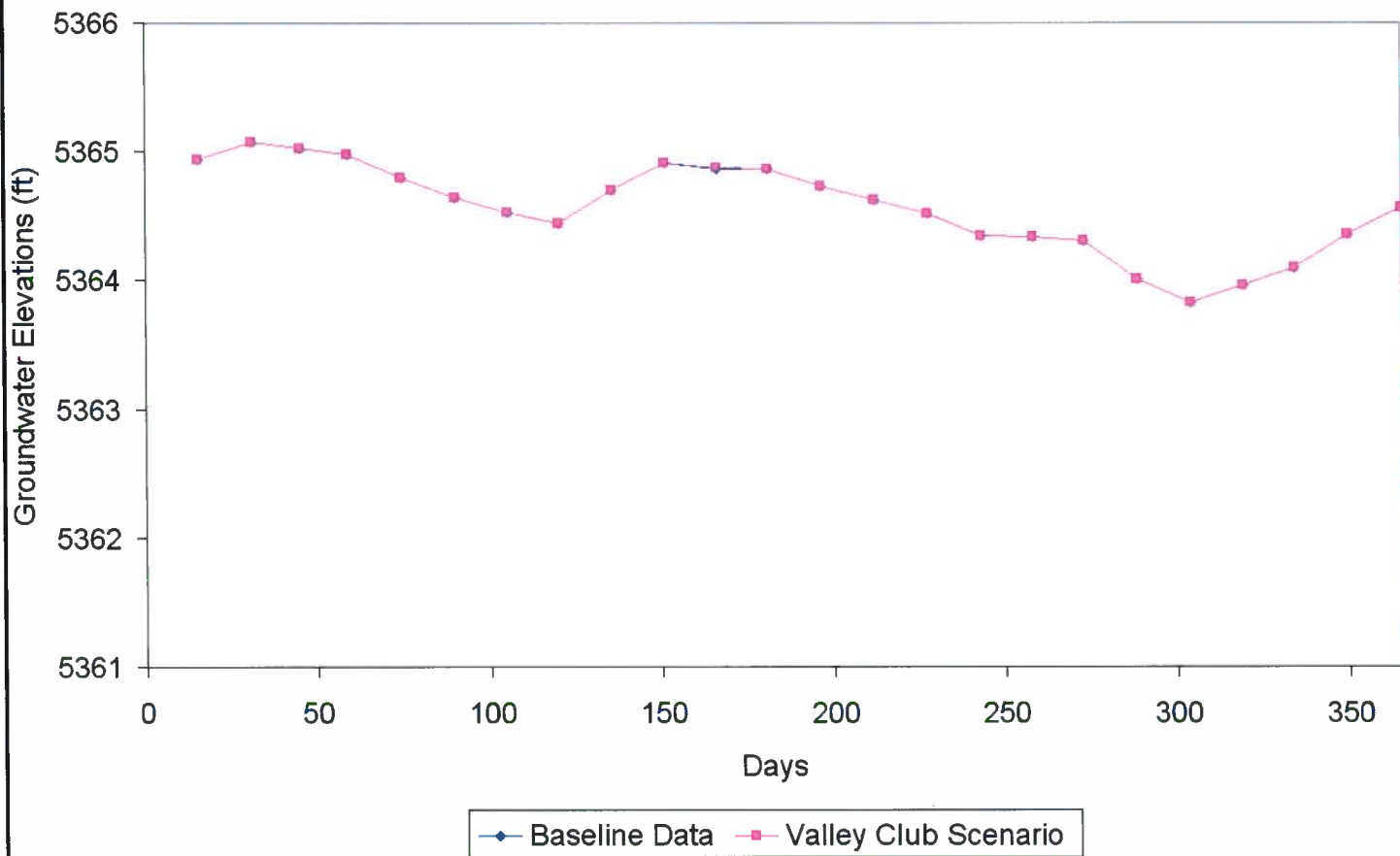


FIGURE 8: SIMULATED GROUNDWATER ELEVATIONS AT POINT E: INDIAN CREEK
VALLEY CLUB, INC RECHARGE PROPOSAL
BIG WOOD VALLEY AQUIFER GROUNDWATER MODEL

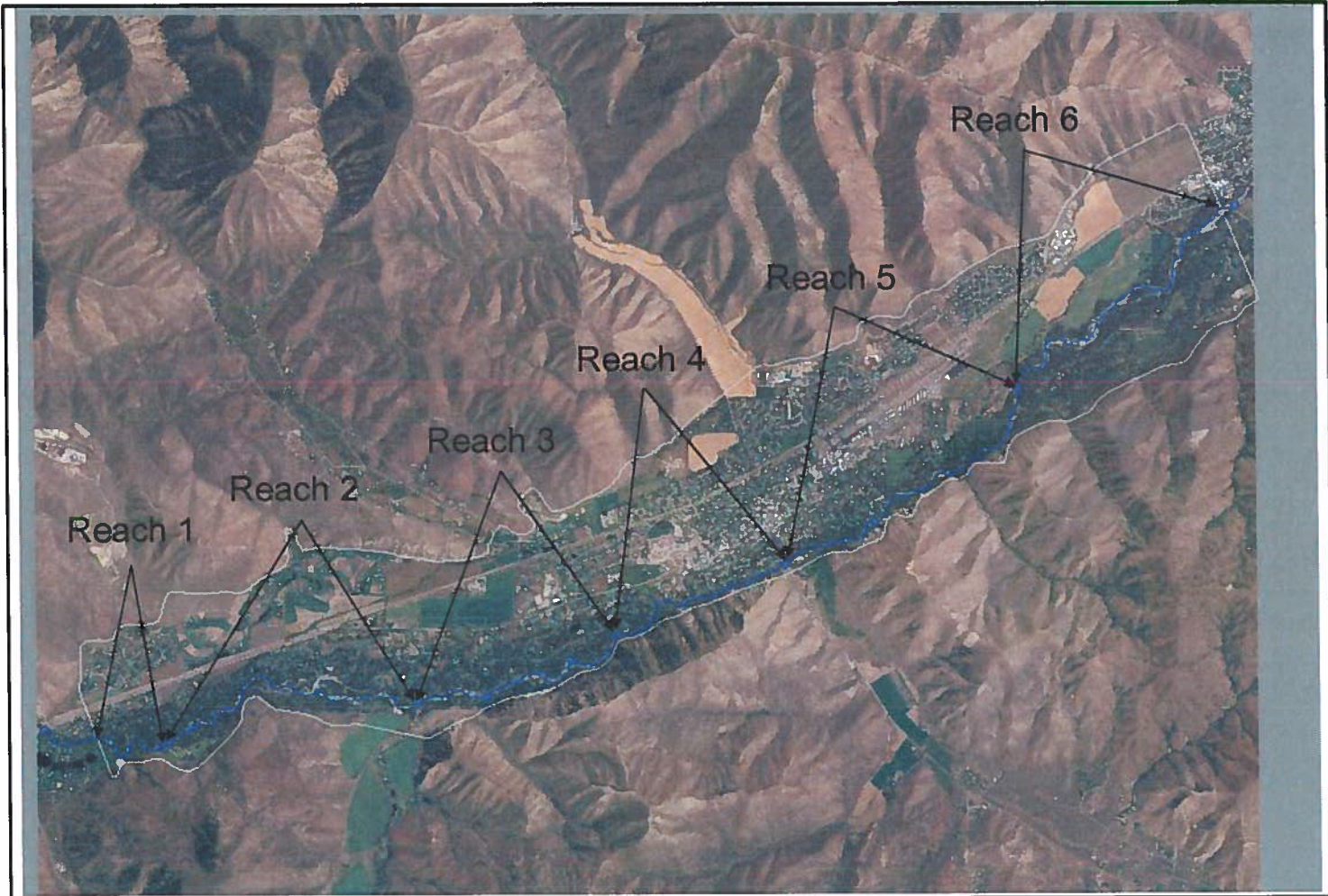


FIGURE 9: BIG WOOD RIVER REACHES
VALLEY CLUB, INC RECHARGE PROPOSAL
 NAIP 2006 AERIAL PHOTO

LEGEND

- MODFLOW Boundary
- Big Wood River
- River Reach

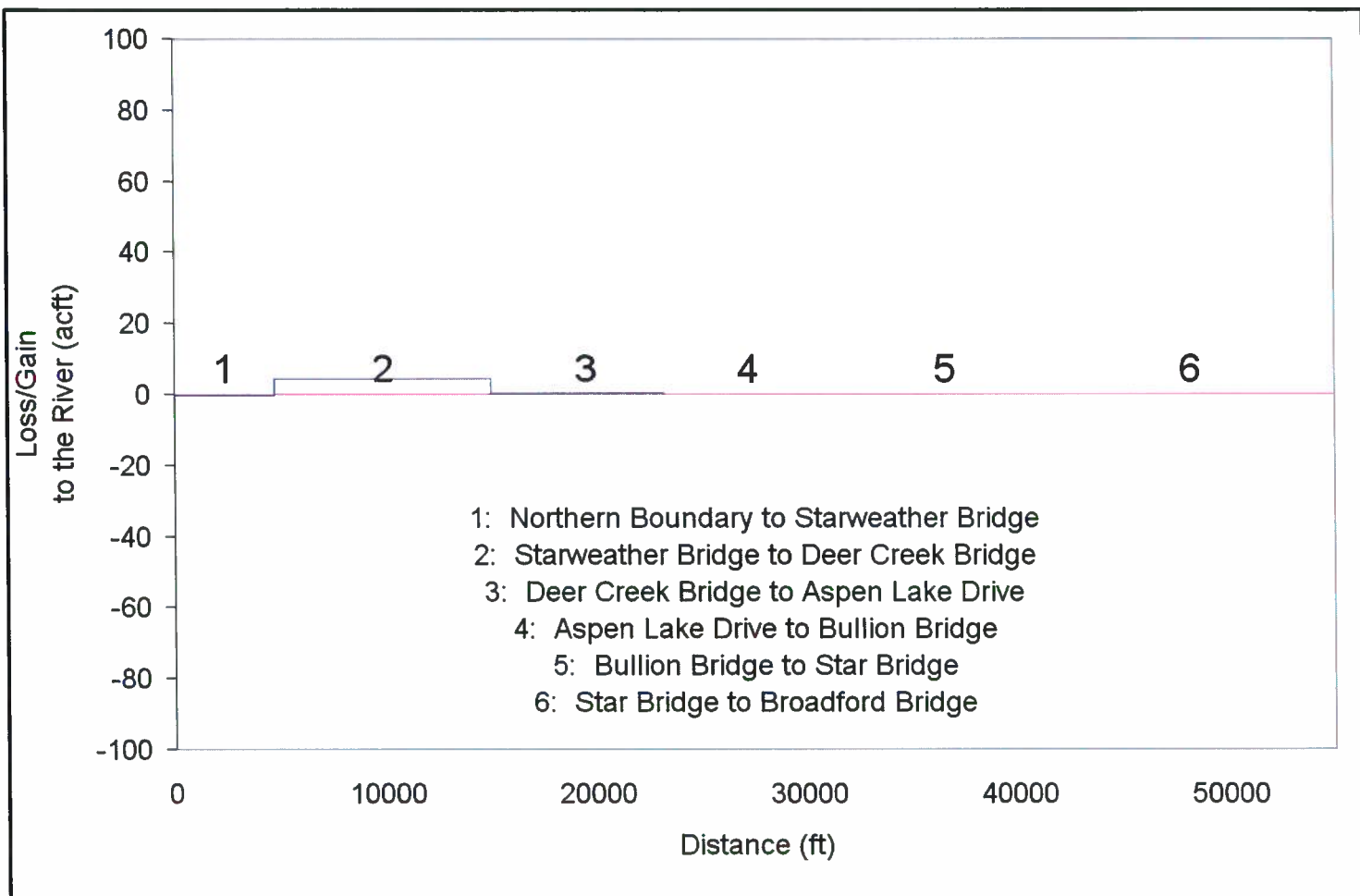


FIGURE 10: SIMULATED ANNUAL BIG WOOD RIVER REACH GAIN/LOSS

VALLEY CLUB, INC RECHARGE PROPOSAL

BIG WOOD VALLEY AQUIFER GROUNDWATER MODEL



**FIGURE 11: BIG WOOD AQUIFER FLOW VECTORS
NEAR VALLEY CLUB, INC PROPOSED RECHARGE PROJECT**

LARGER FLOW VECTORS INDICATE HIGHER VELOCITIES
CONCENTRATED NEAR THE BIG WOOD RIVER

LEGEND
— MODEL DOMAIN
● VC WELLS

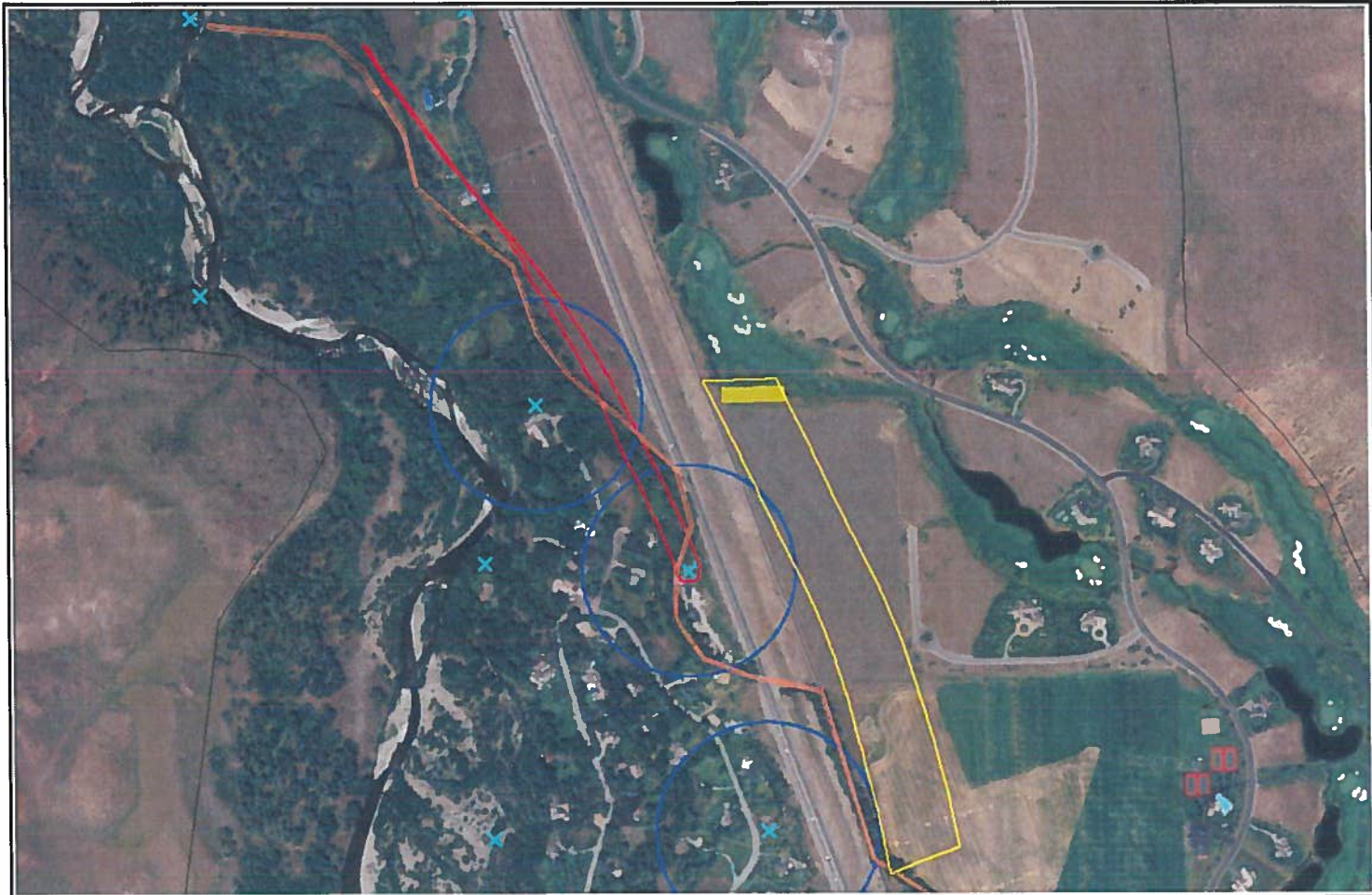


FIGURE 12: BIG WOOD AQUIFER CAPTURE ZONES FOR 1 YEAR
NEAR VALLEY CLUB, INC PROPOSED RECHARGE PROJECT

CAPTURE ZONE FOR DOMESTIC WELL SHOWN IN RED; RECHARGE FLOW PATH SHOWN IN YELLOW
 ONE WELL LOCATED WITHIN 500 FEET OF RECHARGE FLOW PATH

LEGEND
 RECHARGE SITE
 RECHARGE FLOW
 WELLS
 500' WELL RADIUS
 CAPTURE ZONE
 HIAWATHA CANAL

SPECIAL POWER OF ATTORNEY FOR WATER RIGHTS

The Valley Club, Inc., whose mailing address is P.O. Box 252, Sun Valley, Idaho 83353, hereby appoints the attorneys of Givens Pursley LLP, 601 West Bannock Street, P.O. Box 2720, Boise, Idaho, 83701, as its true and lawful attorneys for the purpose of signing on its behalf the following documents for submission to the Idaho Department of Water Resources, and any amendments thereto, submitted or held by The Valley Club, Inc.:

1. Notice of Change of Water Right Ownership;
2. Request for extension of time to commence an appropriation, to submit proof of beneficial use for a water right permit, to avoid forfeiture or to satisfy any other condition or requirement affecting a water right or permit;
3. Notice of Protest;
4. Application for Transfer of a Water Right;
5. Proof of Beneficial Use;
6. Mitigation plans;
7. Application to Sell or Lease a Water Right to the Water Supply Bank;
8. Application for Temporary Approval of a Water Application;
9. Application for Permit to Appropriate;
10. Any pleading, letter or other document in support or furtherance of any of the above.

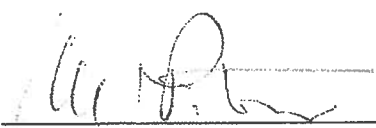
All may rely on such authority. This Special Power of Attorney shall be effective until revoked in writing by The Valley Club, Inc..

For purposes of the exercise of the powers herein granted, the facsimile signature of said attorneys shall be lawful and binding and any person may rely upon such facsimile signature as if it were an original.

IN WITNESS WHEREOF, I have executed this Special Power of Attorney on behalf of The Valley Club, effective as of the last date noted.

The Valley Club, Inc.

Dated: 10.7.08

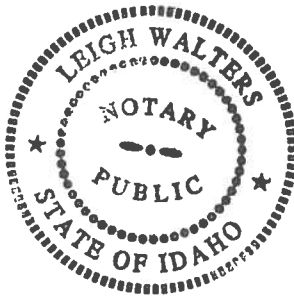
By: 

William S. Potter, its President

ACKNOWLEDGMENT

State of Idaho)
) ss.
County of Blaine)

On this 7 day of December, in the year of 2008, before me _____, a notary public, personally appeared **William S. Potter**, known or identified to me to be the President of **The Valley Club, Inc.** the corporation that executed the instrument or the person who executed the instrument on behalf of said corporation, and acknowledged to me that such corporation executed the same.



Leigh Walters
Notary Public for _____
Residing at Belleuve Idaho
My Commission Expires 6.13.09

Amended
STATE OF IDAHO

Transfer No. 78171

Receipt No. _____

**DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1**

1. Applicant Information THE VALLEY CLUB INC
PO BOX 252
SUN VALLEY ID 83353
(208)788-0997

Will this transfer result in an ownership change? _____ Yes ☒ No

2. Current Water Right**Part 2 Attached for Each Right**

	Origin/Basis	Rate	Volume	Acre Limit	Total Acres	Source
37-657B	WR/Decreed	1.65		75.3	89.0	BIG WOOD RIVER
37-494	WR/Decreed	2.00			143.8	BIG WOOD RIVER
37-495	WR/Decreed	2.80			143.8	BIG WOOD RIVER
37-577BU	WR/Decreed	1.20			143.8	BIG WOOD RIVER
37-577BV	WR/Decreed	1.69			143.8	BIG WOOD RIVER
37-833K	WR/Decreed	0.75			143.8	BIG WOOD RIVER
37-2623	WR/License	3.05	431.4		143.8	GROUND WATER

3. Purpose of Transfer (Change Proposed)**Part 3A Attached for Each Proposed Right****Part 3B Attached for Each Split Right**

Right	Split	POD	POU	Add POD	Period of Use	Nature of Use
37-657B	NO	NO	YES	NO	NO	NO
37-494	NO	NO	YES	NO	NO	YES
37-495	NO	NO	YES	NO	NO	YES
37-577BU	NO	NO	YES	NO	NO	YES
37-577BV	NO	NO	YES	NO	NO	YES
37-833K	NO	NO	YES	NO	NO	YES
37-2623	NO	NO	YES	NO	NO	NO

Describe the reason for the proposed changes

Application filed to convert a 10.8 acre portion of water rights 37-494, 37-495, 37-577BU, 37-577BV, and 37-833K to groundwater recharge use. Application also proposes creating a common permissible place of use for the irrigation portions of rights 37-494, 37-495, 37-577BU, 37-577BV, 37-833K, 37-2623, and 37-657B to provide irrigation flexibility. Application will also correctly identify actual locations of use for the recreation portions of rights 37-494, 37-495, 37-577BV, 37-833K, and 37-2623.

4. FOR CHANGES IN NATURE OF USE ONLY

A. Describe the expected quantity of the return flows and location of discharge after the proposed change

Up to 12.8 acre feet per year will be utilized as ground water recharge within the NWSE of Section 20, T3N, R18E.

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

None anticipated

5. Total Amounts Transferred

	Rate	Acre Limit	Total Acres	Volume
37-657B	1.65 cfs	75.3	276.7	
37-494	2.00 cfs	133.0	276.7	
37-495	2.80 cfs	133.0	276.7	
37-577BU	1.20 cfs	133.0	276.7	
37-577BV	1.69 cfs	133.0	276.7	
37-833K	0.75 cfs	133.0	276.7	
37-2623	2.84 cfs	133.0	276.7	399.0 af
TOTAL	10.09 cfs	208.3	276.7	

**STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1**

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.

(Signature of Applicant)

(Title or Office)

see attached SPA for water rights

Transfer No. 78171

Receipt No. _____

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

Current Water Right No. 37-657B

Priority Date: May 01, 1881

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER**Tributary:** MALAD RIVER

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
IRRIGATION	04/01	11/01	1.53 CFS		
DIVERSION TO STORAGE	04/01	11/01	0.12 CFS		
RECREATION STORAGE	01/01	12/31		13.4 AFA	
AESTHETIC STORAGE	01/01	12/31		13.4 AFA	
Total Diversion			1.65 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER SWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	18E	20															19.0		19.0
03N	18E	29	16.9	5.5		29.7											17.9		70.0

Total Acres: 89

PLACE OF USE: RECREATION STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	18E	29	X			X											X		

PLACE OF USE: AESTHETIC STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				<u>Totals</u>
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
03N	18E	29	X			X									X				

Conditions/Remarks:

1. The right holder shall maintain a measuring device and lockable controlling works of a type approved by the Department in a manner that will provide the watermaster suitable control of the diversion.
2. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 3.5 afa per acre at the field headgate for irrigation of the lands described below.
3. Recreation and Aesthetic uses under Right 37-657B authorize 13.4 af to be used for the replacement of losses caused by evaporation from the 6.3 acre total surface area of the ponds established under Right 37-21338.
4. Use of water under this right will be regulated by a watermaster with responsibility for the distribution of water among appropriators within a water district. At the time of this approval, this water right is within State Water District No. 37.
5. 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.
6. This right is limited to the irrigation of 75.3 acres within the place of use described above in a single irrigation season.

Documentation of Ownership of the Current Place of Use
IDWR records

Is this property subject to any liens, deeds of trust, mortgages, or contracts or other encumbrances?

Describe the effect on the current place of use for this water right if the place of use is changed pursuant to this transfer

Application proposes creating a permissible place of use

To your knowledge, has any portion of the water right undergone a period of five(5) or more consecutive years of non-use?

NO

Transfer No. 78171

Receipt No. _____

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

Current Water Right No. 37-494

Priority Date: May 01, 1886

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER**Tributary:** MALAD RIVER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
RECREATION	04/15 10/31	0.15 CFS		
IRRIGATION	04/15 10/31	1.85 CFS		
Total Diversion		2.00 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: RECREATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20			X										X	X		X	
03N 18E 21											X						
03N 18E 28					X	X			X								

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		6.2	16.0	6.6				2.6					12.0	14.0		6.6	64.0
03N 18E 21											13.2						13.2
03N 18E 28					8.2	16.0	13.0	10.0	8.6	8.7		2.1					66.6

Total Acres: 143.8

Conditions/Remarks:

- Use of water under this water right will be regulated by the watermaster of State Water District No. 37.

2. Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.
3. 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.
4. The rights listed below are limited to the irrigation of a combined total of 143.8 acres in a single irrigation season. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K and 37-2623.
5. The rights listed below shall provide no more than 0.02 cfs and 3.0 acre feet per acre at the field headgate for irrigation of the lands described below. Combined Right Nos.: 37-494, 37-495, 37-577BV, 37-577BU, 37-833K, and 37-2623.
6. Return flow discharged to a surface water system shall meet Idaho Water Quality Standards.
7. The rights listed below are limited to a total combined diversion rate of 8.44 cfs. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K and 37-2623.
8. The right holder shall maintain a measuring device and lockable controlling works of a type approved by the Department in a manner that will provide the watermaster suitable control of the diversion.

Documentation of Ownership of the Current Place of Use

IDWR records

Is this property subject to any liens, deeds of trust, mortgages, or contracts or other encumbrances?

Describe the effect on the current place of use for this water right if the place of use is changed pursuant to this transfer

Application proposes creating a permissible place of use

To your knowledge, has any portion of the water right undergone a period of five(5) or more consecutive years of non-use?

NO

Transfer No. 78171

Receipt No. _____

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

Current Water Right No. 37-495

Priority Date: July 01, 1892

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER**Tributary:** MALAD RIVER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
RECREATION	04/15 10/31	0.21 CFS		
IRRIGATION	04/15 10/31	2.59 CFS		
Total Diversion		2.80 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: RECREATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20			X										X	X		X	
03N 18E 21											X						
03N 18E 28					X	X			X								

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		6.2	16.0	6.6				2.6					12.0	14.0		6.6	64.0
03N 18E 21											13.2						13.2
03N 18E 28					8.2	16.0	13.0	10.0	8.6	8.7		2.1					66.6

Total Acres: 143.8

Conditions/Remarks:

1. Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.

2. Use of water under this water right will be regulated by the watermaster of State Water District No. 37.
3. 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.
4. The rights listed below are limited to the irrigation of a combined total of 143.8 acres in a single irrigation season. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K, and 37-2623.
5. Return flow discharged to a surface water system shall meet Idaho Water Quality Standards.
6. The rights listed below shall provide no more than 0.02 cfs and 3.0 acre feet per acre at the field headgate for irrigation of the lands described below. Combined Right Nos.: 37-494, 37-495, 37-577BV, 37-577BU, 37-833K, and 37-2623.
7. The rights listed below are limited to a total combined diversion rate of 8.44 cfs. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K and 37-2623.
8. The right holder shall maintain a measuring device and lockable controlling works of a type approved by the Department in a manner that will provide the watermaster suitable control of the diversion.

Documentation of Ownership of the Current Place of Use

IDWR records

Is this property subject to any liens, deeds of trust, mortgages, or contracts or other encumbrances?

Describe the effect on the current place of use for this water right if the place of use is changed pursuant to this transfer

Application proposes creating a permissible place of use

To your knowledge, has any portion of the water right undergone a period of five(5) or more consecutive years of non-use?

NO

Transfer No. 78171

Receipt No. _____

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

Current Water Right No. 37-577BU

Priority Date: March 24, 1883

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER**Tributary:** MALAD RIVER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
IRRIGATION	04/15 10/31	1.20 CFS		
	Total Diversion	1.20 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		6.2	16.0	6.6				2.6					12.0	14.0		6.6	64.0
03N 18E 21											13.2						13.2
03N 18E 28					8.2	16.0	13.0	10.0	8.6	8.7		2.1					66.6

Total Acres: 143.8

Conditions/Remarks:

1. 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.
2. The rights listed below are limited to the irrigation of a combined total of 143.8 acres in a single irrigation season. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K and 37-2623
3. The rights listed below shall provide no more than 0.02 cfs and 3.0 acre feet per acre at the field headgate for irrigation of the lands described below. Combined Right Nos.: 37-494, 37-495, 37-577BV, 37-577BU, 37-833K, and 37-2623.
4. The rights listed below are limited to a total combined diversion rate of 8.44 cfs. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K and 37-2623.

5. The right holder shall maintain a measuring device and lockable controlling works of a type approved by the Department in a manner that will provide the watermaster suitable control of the diversion.

Documentation of Ownership of the Current Place of Use

IDWR records

Is this property subject to any liens, deeds of trust, mortgages, or contracts or other encumbrances?

Describe the effect on the current place of use for this water right if the place of use is changed pursuant to this transfer

Application proposes creating a permissible place of use

To your knowledge, has any portion of the water right undergone a period of five(5) or more consecutive years of non-use?

NO

Transfer No. 78171

Receipt No. _____

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

Current Water Right No. 37-577BV

Priority Date: March 24, 1883

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER**Tributary:** MALAD RIVER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
IRRIGATION	04/15 10/31	1.56 CFS		
RECREATION	04/15 10/31	0.13 CFS		
Total Diversion		1.69 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		6.2	16.0	6.6				2.6					12.0	14.0		6.6	64.0
03N 18E 21											13.2						13.2
03N 18E 28					8.2	16.0	13.0	10.0	8.6	8.7		2.1					66.6

Total Acres: 143.8

PLACE OF USE: RECREATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20			X										X	X		X	
03N 18E 21											X						
03N 18E 28						X	X			X							

Conditions/Remarks:

1. Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.

2. The rights listed below are limited to the irrigation of a combined total of 143.8 acres in a single irrigation season. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K, and 37-2623
3. Use of water under this water right will be regulated by the watermaster of State Water District No. 37.
4. The rights listed below are limited to a total combined diversion rate of 8.44 cfs. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K, and 37-2623.
5. Return flow discharged to a surface water system shall meet Idaho Water Quality Standards.
6. 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.
7. The rights listed below shall provide no more than 0.02 cfs and 3.0 acre feet per acre at the field headgate for irrigation of the lands described below. Combined Right Nos.: 37-494, 37-495, 37-577BV, 37-577BU, 37-833K, and 37-2623.
8. The right holder shall maintain a measuring device and lockable controlling works of a type approved by the Department in a manner that will provide the watermaster suitable control of the diversion.

Documentation of Ownership of the Current Place of Use

IDWR records

Is this property subject to any liens, deeds of trust, mortgages, or contracts or other encumbrances?

Describe the effect on the current place of use for this water right if the place of use is changed pursuant to this transfer

Application proposes creating a permissible place of use

To your knowledge, has any portion of the water right undergone a period of five(5) or more consecutive years of non-use?

NO

Transfer No. 78171

Receipt No. _____

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

Current Water Right No. 37-833K

Priority Date: November 12, 1936

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER**Tributary:** MALAD RIVER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
IRRIGATION	04/15 10/31	0.69 CFS		
RECREATION	04/15 10/31	0.06 CFS		
Total Diversion		0.75 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		6.2	16.0	6.6				2.6					12.0	14.0		6.6	64.0
03N 18E 21											13.2						13.2
03N 18E 28					8.2	16.0	13.0	10.0	8.6	8.7		2.1					66.6

Total Acres: 143.8

PLACE OF USE: RECREATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20			X										X	X		X	
03N 18E 21											X						
03N 18E 28						X	X			X							

Conditions/Remarks:

1. A lockable device subject to the approval of the Department shall be maintained on the diverting works in a manner that will provide the watermaster suitable control of the diversion.

2. The saved water shall be made available to the Rockwell By-Pass saved water right holders any time the Rockwell By-Pass is being used to deliver water to Broadford Slough right holders. The Rockwell saved water rights shall be curtailed when calls for senior water rights from the Broadford Slough cannot be delivered.
3. The rights listed below are limited to a total combined diversion rate of 8.44cfs. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV 37-833K, and 37-2623.
4. A measuring device of a type approved by this Department shall be maintained as a part of the diverting works.
5. 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, as established by and subject to the provisions included within the Rockwell vs. Coffin decree issued on 29 July, 1949.
6. The right holder shall accomplish the change authorized by this transfer within one (1) year of the date of this approval.
7. The rights listed below are limited to the irrigation of a combined total of 143.8 acres in a single irrigation season. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, and 37-2623
8. 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.
9. Use of water under this water right will be regulated by the watermaster of State Water District No. 37.
10. Rockwell By-Pass owners must maintain the by-pass for the entire length of the by-pass capable of carrying 17.36 cfs of water during the irrigation season.
11. The rights listed below shall provide no more than 0.02 cfs and 3.0 acre feet per acre at the field headgate for irrigation of the lands described below. Combined Right Nos.: 37-494, 37-495, 37-577BV, 37-577BU, 37-833K, and 37-2623.

Documentation of Ownership of the Current Place of Use

IDWR records

Is this property subject to any liens, deeds of trust, mortgages, or contracts or other encumbrances?

Describe the effect on the current place of use for this water right if the place of use is changed pursuant to this transfer

Application proposes creating a permissible place of use

To your knowledge, has any portion of the water right undergone a period of five(5) or more consecutive years of non-use?

NO

Transfer No. 78171

Receipt No. _____

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

Current Water Right No. 37-2623

Priority Date: October 12, 1959

Origin: Water Right

Basis: Decreed

Status: Active

Source: GROUND WATER

<u>Beneficial Use</u>	<u>From</u> <u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
RECREATION	04/15 10/31	0.24 CFS		
IRRIGATION	04/15 10/31	2.81 CFS	431.4 AFA	
Total Diversion		3.05 CFS	431.4 AFA	

Source and Point(s) of Diversion:

GROUND WATER NESENW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: RECREATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20							X						X	X		X	
03N 18E 21											X						
03N 18E 28						X	X			X							

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		6.2	16.0	6.6				2.6					12.0	14.0		6.6	64.0
03N 18E 21											13.2						13.2
03N 18E 28					8.2	16.0	13.0	10.0	8.6	8.7		2.1					66.6

Total Acres: 143.8

Conditions/Remarks:

1. 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.

2. Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.
3. Use of water under this water right will be regulated by the watermaster of State Water District No. 37.
4. The rights listed below are limited to the irrigation of a combined total of 143.8 acres in a single irrigation season. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K, and 37-2623
5. Return flow discharged to a surface water system shall meet Idaho Water Quality Standards.
6. The rights listed below shall provide no more than 0.02 cfs and 3.0 acre feet per acre at the field headgate for irrigation of the lands described below. Combined Right Nos.: 37-494, 37-495, 37-577BV, 37-577BU, 37-833K, and 37-2623.
7. The rights listed below are limited to a total combined diversion rate of 8.44 cfs. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K and 37-2623.
8. The right holder shall make full beneficial use of all surface water rights available to the right holder for irrigation of the lands authorized to be irrigated under this right. The right holder shall limit the diversion of ground water under this right to those times when the surface water supply authorized for irrigation is not available or otherwise reasonably sufficient to irrigate the place of use authorized under this right.
9. The right holder shall maintain a measuring device and lockable controlling works of a type approved by the Department in a manner that will provide the watermaster suitable control of the diversion.

Documentation of Ownership of the Current Place of Use

IDWR records

Is this property subject to any liens, deeds of trust, mortgages, or contracts or other encumbrances?

Describe the effect on the current place of use for this water right if the place of use is changed pursuant to this transfer

Application proposes creating a permissible place of use

To your knowledge, has any portion of the water right undergone a period of five(5) or more consecutive years of non-use?

NO

Transfer No. 78171

Receipt No. _____

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3A**

Proposed Water Right No. 37-657B

Priority Date: May 01, 1881

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER**Tributary:** MALAD RIVER

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
IRRIGATION	04/01	11/01	1.53 CFS		
DIVERSION TO STORAGE	04/01	11/01	0.12 CFS		
RECREATION STORAGE	01/01	12/31		13.4 AFA	
AESTHETIC STORAGE	01/01	12/31		13.4 AFA	
Total Diversion			1.65 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals	
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE		
03N	18E	20		2	18.0	9.6	.2				5.0					16.0	20.0	18.0	15.0	103.8
03N	18E	21										0.5	15.0							15.5
03N	18E	28					13.0	27.0	18.0	12.0	9.4	13.0		2.6						95.0
03N	18E	29	15.0	6.4		23.0									18.0					62.4

Total Acres: 276.7

PLACE OF USE: RECREATION STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals	
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE		
03N	18E	29	X			X									X					

PLACE OF USE: AESTHETIC STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals	
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE		
03N	18E	29	X			X									X					

Transfer No. 78171

Receipt No. _____

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3A**

Proposed Water Right No. 37-494

Priority Date: May 01, 1886

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER**Tributary:** MALAD RIVER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
GROUND WATER RECHARGE	04/15 10/31	0.14 CFS	12.8 AFA	
RECREATION	04/15 10/31	0.15 CFS		
IRRIGATION	04/15 10/31	1.71 CFS		
Total Diversion		2.00 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: GROUND WATER RECHARGE

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20														X			

PLACE OF USE: RECREATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20			X					X					X	X		X	
03N 18E 21											X						
03N 18E 28						X	X				X						

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		2	18.0	9.6	.2			5.0					16.0	20.0	18.0	15.0	103.8
03N 18E 21										0.5	15.0						15.5
03N 18E 28					13.0	27.0	18.0	12.0	9.4	13.0		2.6					95.0
03N 18E 29	15.0	6.4		23.0									18.0				62.4

Total Acres: 276.7

Transfer No. 78171

Receipt No. _____

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3A**

Proposed Water Right No. 37-495

Priority Date: July 01, 1892

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER**Tributary:** MALAD RIVER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
RECREATION	04/15 10/31	0.21 CFS		
IRRIGATION	04/15 10/31	2.40 CFS		
GROUND WATER RECHARGE	04/15 10/31	0.19 CFS	12.8 AFA	
Total Diversion		2.80 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: RECREATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20			X					X					X	X			X
03N 18E 21											X						
03N 18E 28					X	X				X							

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		2	18.0	9.6	.2			5.0					16.0	20.0	18.0	15.0	103.8
03N 18E 21									0.5	15.0							15.5
03N 18E 28					13.0	27.0	18.0	12.0	9.4	13.0		2.6					95.0
03N 18E 29	15.0	6.4		23.0									18.0				62.4

Total Acres: 276.7

PLACE OF USE: GROUND WATER RECHARGE

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20														X			

Transfer No. 78171

Receipt No. _____

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3A**

Proposed Water Right No. 37-577BU

Priority Date: March 24, 1883

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER**Tributary:** MALAD RIVER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
IRRIGATION	04/15 10/31	1.11 CFS		
GROUND WATER RECHARGE	04/15 10/31	0.09 CFS	12.8 AFA	
	Total Diversion	1.20 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		2	18.0	9.6	.2			5.0					16.0	20.0	18.0	15.0	103.8
03N 18E 21										0.5	15.0						15.5
03N 18E 28					13.0	27.0	18.0	12.0	9.4	13.0		2.6					95.0
03N 18E 29	15.0	6.4		23.0									18.0				62.4

Total Acres: 276.7

PLACE OF USE: GROUND WATER RECHARGE

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20															X		

Transfer No. 78171

Receipt No. _____

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3A**

Proposed Water Right No. 37-577BV

Priority Date: March 24, 1883

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER

Tributary: MALAD RIVER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
GROUND WATER RECHARGE	04/15 10/31	0.12 CFS	12.8 AFA	
IRRIGATION	04/15 10/31	1.44 CFS		
RECREATION	04/15 10/31	0.13 CFS		
Total Diversion		1.69 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: GROUND WATER RECHARGE

Twp Rge Sec	NE				NW				SW				SE				Totals
03N 18E 20	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
														X			

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
03N 18E 20	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
		2	18.0	9.6	.2			5.0					16.0	20.0	18.0	15.0	103.8
03N 18E 21									0.5	15.0							15.5
03N 18E 28					13.0	27.0	18.0	12.0	9.4	13.0		2.6					95.0
03N 18E 29	15.0	6.4		23.0									18.0				62.4

Total Acres: 276.7

PLACE OF USE: RECREATION

Twp Rge Sec	NE				NW				SW				SE				Totals
03N 18E 20	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
			X					X					X	X		X	
03N 18E 21											X						
03N 18E 28					X	X			X								

Transfer No. 78171

Receipt No. _____

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3A**

Proposed Water Right No. 37-833K

Priority Date: November 12, 1936

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER**Tributary:** MALAD RIVER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
IRRIGATION	04/15 10/31	0.64 CFS		
RECREATION	04/15 10/31	0.06 CFS		
GROUND WATER RECHARGE	04/15 10/31	0.05 CFS	12.8 AFA	
Total Diversion		0.75 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		2	18.0	9.6	.2			5.0					16.0	20.0	18.0	15.0	103.8
03N 18E 21									0.5	15.0							15.5
03N 18E 28					13.0	27.0	18.0	12.0	9.4	13.0		2.6					95.0
03N 18E 29	15.0	6.4		23.0									18.0				62.4

Total Acres: 276.7

PLACE OF USE: RECREATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20			X					X					X	X		X	
03N 18E 21											X						
03N 18E 28						X	X			X							

PLACE OF USE: GROUND WATER RECHARGE

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20														X			

Transfer No. 78171

Receipt No. _____

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3A**

Proposed Water Right No. 37-2623

Priority Date: October 12, 1959

Origin: Water Right

Basis: Decreed

Status: Active

Source: GROUND WATER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
RECREATION	04/15 10/31	0.24 CFS		
IRRIGATION	04/15 10/31	2.60 CFS	399.0 AFA	
Total Diversion		2.84 CFS	399.0 AFA	

Source and Point(s) of Diversion:

GROUND WATER NESENW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: RECREATION

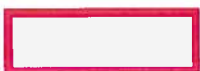
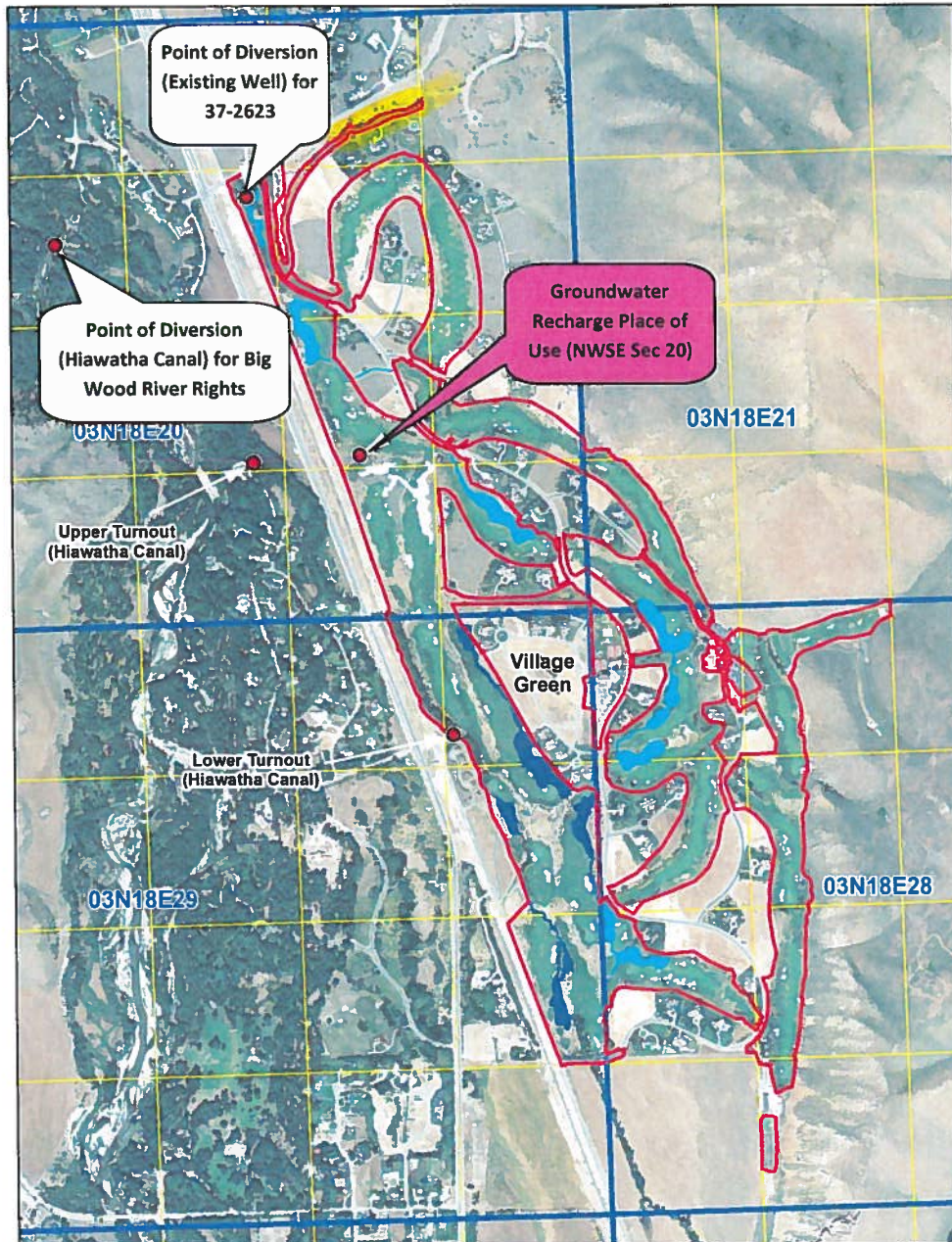
Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20			X					X					X	X			
03N 18E 21											X						
03N 18E 28					X	X				X							

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		2	18.0	9.6	.2			5.0					16.0	20.0	18.0	15.0	103.8
03N 18E 21										0.5	15.0						15.5
03N 18E 28					13.0	27.0	18.0	12.0	9.4	13.0		2.6					95.0
03N 18E 29	15.0	6.4		23.0									18.0				62.4

Total Acres: 276.7

IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT



Proposed Irrigation Permissible Place of Use

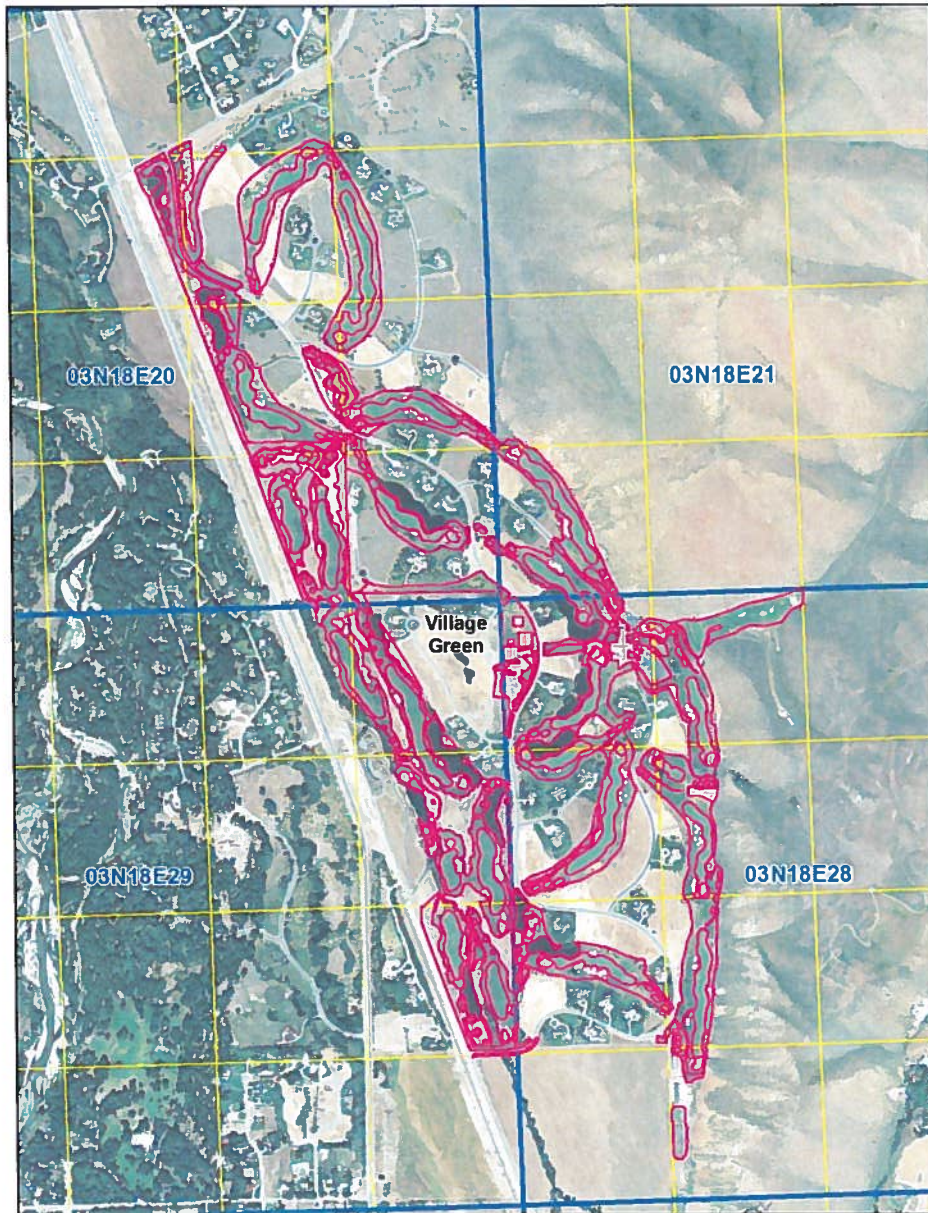


37-657B Aesthetic and Recreation Storage Place of Use



37-494, 37-495, 37-577BV, 37-833K, and 37-2623 Recreation Place of Use

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT**



Initial 208.3 Acre Area to be Irrigated within Proposed Permissible Place of Use

RECEIVED

NOV 13 2012

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DEPT. OF WATER RESOURCES
SOUTHERN REGION

Transfer No. 78171

Receipt No. 5032899
78255

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1

1. Applicant Information THE VALLEY CLUB INC
PO BOX 252
SUN VALLEY ID 83353
(208)788-0997

Will this transfer result in an ownership change? _____ Yes X No

2. Current Water Right

Part 2 Attached for Each Right

	Origin/Basis	Rate	Volume	Acre Limit	Total Acres	Source
37-657B	WR/Decreed	1.65		75.3	89.0	BIG WOOD RIVER
37-494	WR/Decreed	2.00			143.8	BIG WOOD RIVER
37-495	WR/Decreed	2.80			143.8	BIG WOOD RIVER
37-577BU	WR/Decreed	1.20			143.8	BIG WOOD RIVER
37-577BV	WR/Decreed	1.69			143.8	BIG WOOD RIVER
37-833K	WR/Decreed	0.75			143.8	BIG WOOD RIVER
37-2623	WR/License	3.05	431.4		143.8	GROUND WATER

3. Purpose of Transfer (Change Proposed)

Part 3A Attached for Each Proposed Right

Part 3B Attached for Each Split Right

Right	Split	POD	POU	Add POD	Period of Use	Nature of Use
37-657B	NO	NO	YES	NO	NO	NO
37-494	NO	NO	YES	NO	NO	YES
37-495	NO	NO	YES	NO	NO	YES
37-577BU	NO	NO	YES	NO	NO	YES
37-577BV	NO	NO	YES	NO	NO	YES
37-833K	NO	NO	YES	NO	NO	YES
37-2623	NO	NO	YES	NO	NO	NO

Describe the reason for the proposed changes

Application filed to convert a 10.8 acre portion of water rights 37-494, 37-495, 37-577BU, 37-577BV, and 37-833K to groundwater recharge use. Application also proposes creating a common permissible place of use for the irrigation portions of rights 37-494, 37-495, 37-577BU, 37-577BV, 37-833K, 37-2623, and 37-657B to provide irrigation flexibility. Application will also correctly identify actual locations of use for the recreation portions of rights 37-494, 37-495, 37-577BV, 37-833K, and 37-2623.

4. FOR CHANGES IN NATURE OF USE ONLY

A. Describe the expected quantity of the return flows and location of discharge after the proposed change

Up to 12.8 acre feet per year will be utilized as ground water recharge within the NWSE of Section 20, T3N, R18E.

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

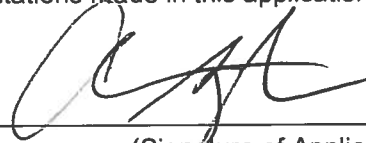
None anticipated

5. Total Amounts Transferred

	Rate	Acre Limit	Total Acres	Volume
37-657B	1.65 cfs	75.3	276.2	
37-494	2.00 cfs	133.0	276.2	
37-495	2.80 cfs	133.0	276.2	
37-577BU	1.20 cfs	133.0	276.2	
37-577BV	1.69 cfs	133.0	276.2	
37-833K	0.75 cfs	133.0	276.2	
37-2623	2.84 cfs	133.0	276.2	399.0 af
TOTAL	10.09 cfs	208.3	276.2	

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1

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.



(Signature of Applicant)



(Title or Office)

Transfer No. 78171

Receipt No. _____

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

Current Water Right No. 37-657B

Priority Date: May 01, 1881

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER**Tributary:** MALAD RIVER

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
IRRIGATION	04/01	11/01	1.53 CFS		
DIVERSION TO STORAGE	04/01	11/01	0.12 CFS		
RECREATION STORAGE	01/01	12/31		13.4 AFA	
AESTHETIC STORAGE	01/01	12/31		13.4 AFA	
Total Diversion			1.65 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER SWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	18E	20															19.0		19.0
03N	18E	29	16.9	5.5		29.7											17.9		70.0

Total Acres: 89

PLACE OF USE: RECREATION STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	18E	29	X			X											X		

PLACE OF USE: AESTHETIC STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	18E	29	X			X									X				

Conditions/Remarks:

1. The right holder shall maintain a measuring device and lockable controlling works of a type approved by the Department in a manner that will provide the watermaster suitable control of the diversion.
2. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 3.5 afa per acre at the field headgate for irrigation of the lands described below.
3. Recreation and Aesthetic uses under Right 37-657B authorize 13.4 af to be used for the replacement of losses caused by evaporation from the 6.3 acre total surface area of the ponds established under Right 37-21338.
4. Use of water under this right will be regulated by a watermaster with responsibility for the distribution of water among appropriators within a water district. At the time of this approval, this water right is within State Water District No. 37.
5. 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.
6. This right is limited to the irrigation of 75.3 acres within the place of use described above in a single irrigation season.

Documentation of Ownership of the Current Place of Use
IDWR records

Is this property subject to any liens, deeds of trust, mortgages, or contracts or other encumbrances?
Yes. Acknowledgment and consent to transfer will be furnished to IDWR.

Describe the effect on the current place of use for this water right if the place of use is changed pursuant to this transfer

Application proposes creating a permissible place of use

To your knowledge, has any portion of the water right undergone a period of five(5) or more consecutive years of non-use?
NO

Transfer No. 78171

Receipt No. _____

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

Current Water Right No. 37-494

Priority Date: May 01, 1886

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER**Tributary:** MALAD RIVER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
RECREATION	04/15 10/31	0.15 CFS		
IRRIGATION	04/15 10/31	1.85 CFS		
Total Diversion		2.00 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: RECREATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20			X										X	X		X	
03N 18E 21											X						
03N 18E 28					X	X			X								

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		6.2	16.0	6.6				2.6					12.0	14.0		6.6	64.0
03N 18E 21											13.2						13.2
03N 18E 28					8.2	16.0	13.0	10.0	8.6	8.7		2.1					66.6

Total Acres: 143.8

Conditions/Remarks:

- Use of water under this water right will be regulated by the watermaster of State Water District No. 37.

2. Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.
3. 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.
4. The rights listed below are limited to the irrigation of a combined total of 143.8 acres in a single irrigation season. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K and 37-2623.
5. The rights listed below shall provide no more than 0.02 cfs and 3.0 acre feet per acre at the field headgate for irrigation of the lands described below. Combined Right Nos.: 37-494, 37-495, 37-577BV, 37-577BU, 37-833K, and 37-2623.
6. Return flow discharged to a surface water system shall meet Idaho Water Quality Standards.
7. The rights listed below are limited to a total combined diversion rate of 8.44 cfs. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K and 37-2623.
8. The right holder shall maintain a measuring device and lockable controlling works of a type approved by the Department in a manner that will provide the watermaster suitable control of the diversion.

Documentation of Ownership of the Current Place of Use

IDWR records

Is this property subject to any liens, deeds of trust, mortgages, or contracts or other encumbrances?
Yes. Acknowledgment and consent to transfer will be furnished to IDWR.

Describe the effect on the current place of use for this water right if the place of use is changed pursuant to this transfer

Application proposes creating a permissible place of use

To your knowledge, has any portion of the water right undergone a period of five(5) or more consecutive years of non-use?

NO

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

Current Water Right No. 37-495

Priority Date: July 01, 1892

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER

Tributary: MALAD RIVER

<u>Beneficial Use</u>	<u>From</u> <u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
RECREATION	04/15 10/31	0.21 CFS		
IRRIGATION	04/15 10/31	2.59 CFS		
Total Diversion		2.80 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: RECREATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20			X										X	X		X	
03N 18E 21											X						
03N 18E 28					X	X			X								

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		6.2	16.0	6.6				2.6					12.0	14.0		6.6	64.0
03N 18E 21											13.2						13.2
03N 18E 28					8.2	16.0	13.0	10.0	8.6	8.7		2.1					66.6

Total Acres: 143.8

Conditions/Remarks:

1. Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.

2. Use of water under this water right will be regulated by the watermaster of State Water District No. 37.
3. 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.
4. The rights listed below are limited to the irrigation of a combined total of 143.8 acres in a single irrigation season. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K, and 37-2623.
5. Return flow discharged to a surface water system shall meet Idaho Water Quality Standards.
6. The rights listed below shall provide no more than 0.02 cfs and 3.0 acre feet per acre at the field headgate for irrigation of the lands described below. Combined Right Nos.: 37-494, 37-495, 37-577BV, 37-577BU, 37-833K, and 37-2623.
7. The rights listed below are limited to a total combined diversion rate of 8.44 cfs. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K and 37-2623.
8. The right holder shall maintain a measuring device and lockable controlling works of a type approved by the Department in a manner that will provide the watermaster suitable control of the diversion.

Documentation of Ownership of the Current Place of Use

IDWR records

Is this property subject to any liens, deeds of trust, mortgages, or contracts or other encumbrances?
Yes. Acknowledgment and consent to transfer will be furnished to IDWR.

Describe the effect on the current place of use for this water right if the place of use is changed pursuant to this transfer

Application proposes creating a permissible place of use

To your knowledge, has any portion of the water right undergone a period of five(5) or more consecutive years of non-use?

NO

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

Current Water Right No. 37-577BU

Priority Date: March 24, 1883

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER

Tributary: MALAD RIVER

<u>Beneficial Use</u>	<u>From</u> <u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
IRRIGATION	04/15 10/31	1.20 CFS		
	Total Diversion	1.20 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	18E	20		6.2	16.0	6.6				2.6					12.0	14.0		6.6	64.0
03N	18E	21											13.2						13.2
03N	18E	28					8.2	16.0	13.0	10.0	8.6	8.7		2.1					66.6

Total Acres: 143.8

Conditions/Remarks:

1. 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.
2. The rights listed below are limited to the irrigation of a combined total of 143.8 acres in a single irrigation season. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K and 37-2623
3. The rights listed below shall provide no more than 0.02 cfs and 3.0 acre feet per acre at the field headgate for irrigation of the lands described below. Combined Right Nos.: 37-494, 37-495, 37-577BV, 37-577BU, 37-833K, and 37-2623.
4. The rights listed below are limited to a total combined diversion rate of 8.44 cfs. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K and 37-2623.

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5. The right holder shall maintain a measuring device and lockable controlling works of a type approved by the Department in a manner that will provide the watermaster suitable control of the diversion.

Documentation of Ownership of the Current Place of Use

IDWR records

Is this property subject to any liens, deeds of trust, mortgages, or contracts or other encumbrances?
Yes. Acknowledgment and consent to transfer will be furnished to IDWR.

Describe the effect on the current place of use for this water right if the place of use is changed pursuant to this transfer

Application proposes creating a permissible place of use

To your knowledge, has any portion of the water right undergone a period of five(5) or more consecutive years of non-use?

NO

Transfer No. 78171

Receipt No. _____

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

Current Water Right No. 37-577BV

Priority Date: March 24, 1883

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER**Tributary:** MALAD RIVER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
IRRIGATION	04/15 10/31	1.56 CFS		
RECREATION	04/15 10/31	0.13 CFS		
Total Diversion		1.69 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		6.2	16.0	6.6				2.6					12.0	14.0		6.6	64.0
03N 18E 21											13.2						13.2
03N 18E 28					8.2	16.0	13.0	10.0	8.6	8.7		2.1					66.6

Total Acres: 143.8

PLACE OF USE: RECREATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20			X										X	X		X	
03N 18E 21											X						
03N 18E 28						X	X			X							

Conditions/Remarks:

1. Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.

2. The rights listed below are limited to the irrigation of a combined total of 143.8 acres in a single irrigation season. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K, and 37-2623
3. Use of water under this water right will be regulated by the watermaster of State Water District No. 37.
4. The rights listed below are limited to a total combined diversion rate of 8.44 cfs. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K, and 37-2623.
5. Return flow discharged to a surface water system shall meet Idaho Water Quality Standards.
6. 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.
7. The rights listed below shall provide no more than 0.02 cfs and 3.0 acre feet per acre at the field headgate for irrigation of the lands described below. Combined Right Nos.: 37-494, 37-495, 37-577BV, 37-577BU, 37-833K, and 37-2623.
8. The right holder shall maintain a measuring device and lockable controlling works of a type approved by the Department in a manner that will provide the watermaster suitable control of the diversion.

Documentation of Ownership of the Current Place of Use

IDWR records

Is this property subject to any liens, deeds of trust, mortgages, or contracts or other encumbrances?
Yes. Acknowledgment and consent to transfer will be furnished to IDWR.

Describe the effect on the current place of use for this water right if the place of use is changed pursuant to this transfer

Application proposes creating a permissible place of use

To your knowledge, has any portion of the water right undergone a period of five(5) or more consecutive years of non-use?

NO

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

Current Water Right No. 37-833K

Priority Date: November 12, 1936

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER

Tributary: MALAD RIVER

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
IRRIGATION	04/15	10/31	0.69 CFS		
RECREATION	04/15	10/31	0.06 CFS		
Total Diversion			0.75 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		6.2	16.0	6.6				2.6					12.0	14.0		6.6	64.0
03N 18E 21											13.2						13.2
03N 18E 28					8.2	16.0	13.0	10.0	8.6	8.7		2.1					66.6

Total Acres: 143.8

PLACE OF USE: RECREATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20			X										X	X		X	
03N 18E 21											X						
03N 18E 28						X	X			X							

Conditions/Remarks:

1. A lockable device subject to the approval of the Department shall be maintained on the diverting works in a manner that will provide the watermaster suitable control of the diversion.

2. The saved water shall be made available to the Rockwell By-Pass saved water right holders any time the Rockwell By-Pass is being used to deliver water to Broadford Slough right holders. The Rockwell saved water rights shall be curtailed when calls for senior water rights from the Broadford Slough cannot be delivered.
3. The rights listed below are limited to a total combined diversion rate of 8.44cfs. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV 37-833K, and 37-2623.
4. A measuring device of a type approved by this Department shall be maintained as a part of the diverting works.
5. 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, as established by and subject to the provisions included within the Rockwell vs. Coffin decree issued on 29 July, 1949.
6. The right holder shall accomplish the change authorized by this transfer within one (1) year of the date of this approval.
7. The rights listed below are limited to the irrigation of a combined total of 143.8 acres in a single irrigation season. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, and 37-2623
8. 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.
9. Use of water under this water right will be regulated by the watermaster of State Water District No. 37.
10. Rockwell By-Pass owners must maintain the by-pass for the entire length of the by-pass capable of carrying 17.36 cfs of water during the irrigation season.
11. The rights listed below shall provide no more than 0.02 cfs and 3.0 acre feet per acre at the field headgate for irrigation of the lands described below. Combined Right Nos.: 37-494, 37-495, 37-577BV, 37-577BU, 37-833K, and 37-2623.

Documentation of Ownership of the Current Place of Use

IDWR records

Is this property subject to any liens, deeds of trust, mortgages, or contracts or other encumbrances?
Yes. Acknowledgment and consent to transfer will be furnished to IDWR.

Describe the effect on the current place of use for this water right if the place of use is changed pursuant to this transfer

Application proposes creating a permissible place of use

To your knowledge, has any portion of the water right undergone a period of five(5) or more consecutive years of non-use?

NO

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

Current Water Right No. 37-2623

Priority Date: October 12, 1959

Origin: Water Right

Basis: Decreed

Status: Active

Source: GROUND WATER

<u>Beneficial Use</u>	<u>From</u> <u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
RECREATION	04/15 10/31	0.24 CFS		
IRRIGATION	04/15 10/31	2.81 CFS	431.4 AFA	
Total Diversion		3.05 CFS	431.4 AFA	

Source and Point(s) of Diversion:

GROUND WATER NESENW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: RECREATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20							X						X	X		X	
03N 18E 21											X						
03N 18E 28						X	X			X							

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		6.2	16.0	6.6				2.6					12.0	14.0		6.6	64.0
03N 18E 21											13.2						13.2
03N 18E 28					8.2	16.0	13.0	10.0	8.6	8.7		2.1					66.6

Total Acres: 143.8

Conditions/Remarks:

1. 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.

2. Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.
3. Use of water under this water right will be regulated by the watermaster of State Water District No. 37.
4. The rights listed below are limited to the irrigation of a combined total of 143.8 acres in a single irrigation season. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K, and 37-2623
5. Return flow discharged to a surface water system shall meet Idaho Water Quality Standards.
6. The rights listed below shall provide no more than 0.02 cfs and 3.0 acre feet per acre at the field headgate for irrigation of the lands described below. Combined Right Nos.: 37-494, 37-495, 37-577BV, 37-577BU, 37-833K, and 37-2623.
7. The rights listed below are limited to a total combined diversion rate of 8.44 cfs. Combined Right Nos.: 37-494, 37-495, 37-577BU, 37-577BV, 37-833K and 37-2623.
8. The right holder shall make full beneficial use of all surface water rights available to the right holder for irrigation of the lands authorized to be irrigated under this right. The right holder shall limit the diversion of ground water under this right to those times when the surface water supply authorized for irrigation is not available or otherwise reasonably sufficient to irrigate the place of use authorized under this right.
9. The right holder shall maintain a measuring device and lockable controlling works of a type approved by the Department in a manner that will provide the watermaster suitable control of the diversion.

Documentation of Ownership of the Current Place of Use

IDWR records

Is this property subject to any liens, deeds of trust, mortgages, or contracts or other encumbrances?
Yes. Acknowledgment and consent to transfer will be furnished to IDWR.

Describe the effect on the current place of use for this water right if the place of use is changed pursuant to this transfer

Application proposes creating a permissible place of use

To your knowledge, has any portion of the water right undergone a period of five(5) or more consecutive years of non-use?

NO

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3A**

Proposed Water Right No. 37-657B

Priority Date: May 01, 1881

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER

Tributary: MALAD RIVER

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
IRRIGATION	04/01	11/01	1.53 CFS		
DIVERSION TO STORAGE	04/01	11/01	0.12 CFS		
RECREATION STORAGE	01/01	12/31		13.4 AFA	
AESTHETIC STORAGE	01/01	12/31		13.4 AFA	
Total Diversion			1.65 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals	
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE		
03N	18E	20		.9	18.0	9.6	.2				5.0					16.0	20.0	18.0	15.0	102.7
03N	18E	21											15.0							15.0
03N	18E	28					13.0	27.0	18.0	12.0	9.4	13.0		2.6						95.0
03N	18E	29	15.0	6.4		23.0									18.0					62.4

Total Acres: 275.1

PLACE OF USE: RECREATION STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals	
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE		
03N	18E	29	X				X								X					

PLACE OF USE: AESTHETIC STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals	
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE		
03N	18E	29	X				X								X					

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3A**

Proposed Water Right No. 37-494

Priority Date: May 01, 1886

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER

Tributary: MALAD RIVER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
GROUND WATER RECHARGE	04/15 10/31	0.14 CFS	12.8 AFA	
RECREATION	04/15 10/31	0.15 CFS		
IRRIGATION	04/15 10/31	1.71 CFS		
Total Diversion		2.00 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: GROUND WATER RECHARGE

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20															X		

PLACE OF USE: RECREATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20			X					X					X	X			
03N 18E 21											X						
03N 18E 28						X	X			X							

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		.9	18.0	9.6	.2			5.0					16.0	20.0	18.0	15.0	102.7
03N 18E 21											15.0						15.0
03N 18E 28					13.0	27.0	18.0	12.0	9.4	13.0		2.6					95.0
03N 18E 29	15.0	6.4		23.0									18.0				62.4

Total Acres: 275.1

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3A**

Proposed Water Right No. 37-495

Priority Date: July 01, 1892

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER

Tributary: MALAD RIVER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
RECREATION	04/15 10/31	0.21 CFS		
IRRIGATION	04/15 10/31	2.40 CFS		
GROUND WATER	04/15 10/31	0.19 CFS	12.8 AFA	
RECHARGE				
	Total Diversion	2.80 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: RECREATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20			X					X					X	X		X	
03N 18E 21											X						
03N 18E 28					X	X			X								

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		.9	18.0	9.6	.2			5.0					16.0	20.0	18.0	15.0	102.7
03N 18E 21											15.0						15.0
03N 18E 28					13.0	27.0	18.0	12.0	9.4	13.0		2.6					95.0
03N 18E 29	15.0	6.4		23.0									18.0				62.4

Total Acres: 275.1

PLACE OF USE: GROUND WATER RECHARGE

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20														X			

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3A**

Proposed Water Right No. 37-577BU

Priority Date: March 24, 1883

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER

Tributary: MALAD RIVER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
IRRIGATION	04/15 10/31	1.11 CFS		
GROUND WATER RECHARGE	04/15 10/31	0.09 CFS	12.8 AFA	
Total Diversion		1.20 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		.9	18.0	9.6	.2			5.0					16.0	20.0	18.0	15.0	102.7
03N 18E 21											15.0						15.0
03N 18E 28					13.0	27.0	18.0	12.0	9.4	13.0		2.6					95.0
03N 18E 29	15.0	6.4		23.0									18.0				62.4

Total Acres: 275.1

PLACE OF USE: GROUND WATER RECHARGE

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20														X			

Proposed Water Right No. 37-577BV

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER

Tributary: MALAD RIVER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
GROUND WATER RECHARGE	04/15 10/31	0.12 CFS	12.8 AFA	
IRRIGATION	04/15 10/31	1.44 CFS		
RECREATION	04/15 10/31	0.13 CFS		
	Total Diversion	1.69 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: GROUND WATER RECHARGE

Twp	Rge	Sec	NE				NW				SW				SE				
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>Totals</u>
03N	18E	20														X			

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals		
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE			
03N	18E	20		.9	18.0	9.6	.2					5.0					16.0	20.0	18.0	15.0	102.7
03N	18E	21												15.0							15.0
03N	18E	28					13.0	27.0	18.0	12.0	9.4	13.0		2.6							95.0
03N	18E	29	15.0	6.4		23.0										18.0					62.4

Total Acres: 275.1

PLACE OF USE: RECREATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
03N	18E	20			X				X						X	X		X	
03N	18E	21											X						
03N	18E	28					X	X				X							

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3A**

Proposed Water Right No. 37-833K

Priority Date: November 12, 1936

Origin: Water Right

Basis: Decreed

Status: Active

Source: BIG WOOD RIVER

Tributary: MALAD RIVER

<u>Beneficial Use</u>	<u>From</u> <u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
IRRIGATION	04/15 10/31	0.64 CFS		
RECREATION	04/15 10/31	0.06 CFS		
GROUND WATER RECHARGE	04/15 10/31	0.05 CFS	12.8 AFA	
Total Diversion		0.75 CFS		

Source and Point(s) of Diversion:

BIG WOOD RIVER NESWNW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20		.9	18.0	9.6	.2			5.0					16.0	20.0	18.0	15.0	102.7
03N 18E 21											15.0						15.0
03N 18E 28					13.0	27.0	18.0	12.0	9.4	13.0		2.6					95.0
03N 18E 29	15.0	6.4		23.0									18.0				62.4

PLACE OF USE: RECREATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20			X					X					X	X		X	
03N 18E 21											X						
03N 18E 28						X	X			X							

PLACE OF USE: GROUND WATER RECHARGE

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20														X			

Transfer No. 78171

Receipt No. _____

IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3A

Proposed Water Right No. 37-2623

Priority Date: October 12, 1959

Origin: Water Right

Basis: Decreed

Status: Active

Source: GROUND WATER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
RECREATION	04/15 10/31	0.24 CFS		
IRRIGATION	04/15 10/31	2.60 CFS	399.0 AFA	
Total Diversion		2.84 CFS	399.0 AFA	

Source and Point(s) of Diversion:

GROUND WATER NESENW Sec. 20 Twp 03N Rge 18E BLAINE County

PLACE OF USE: RECREATION

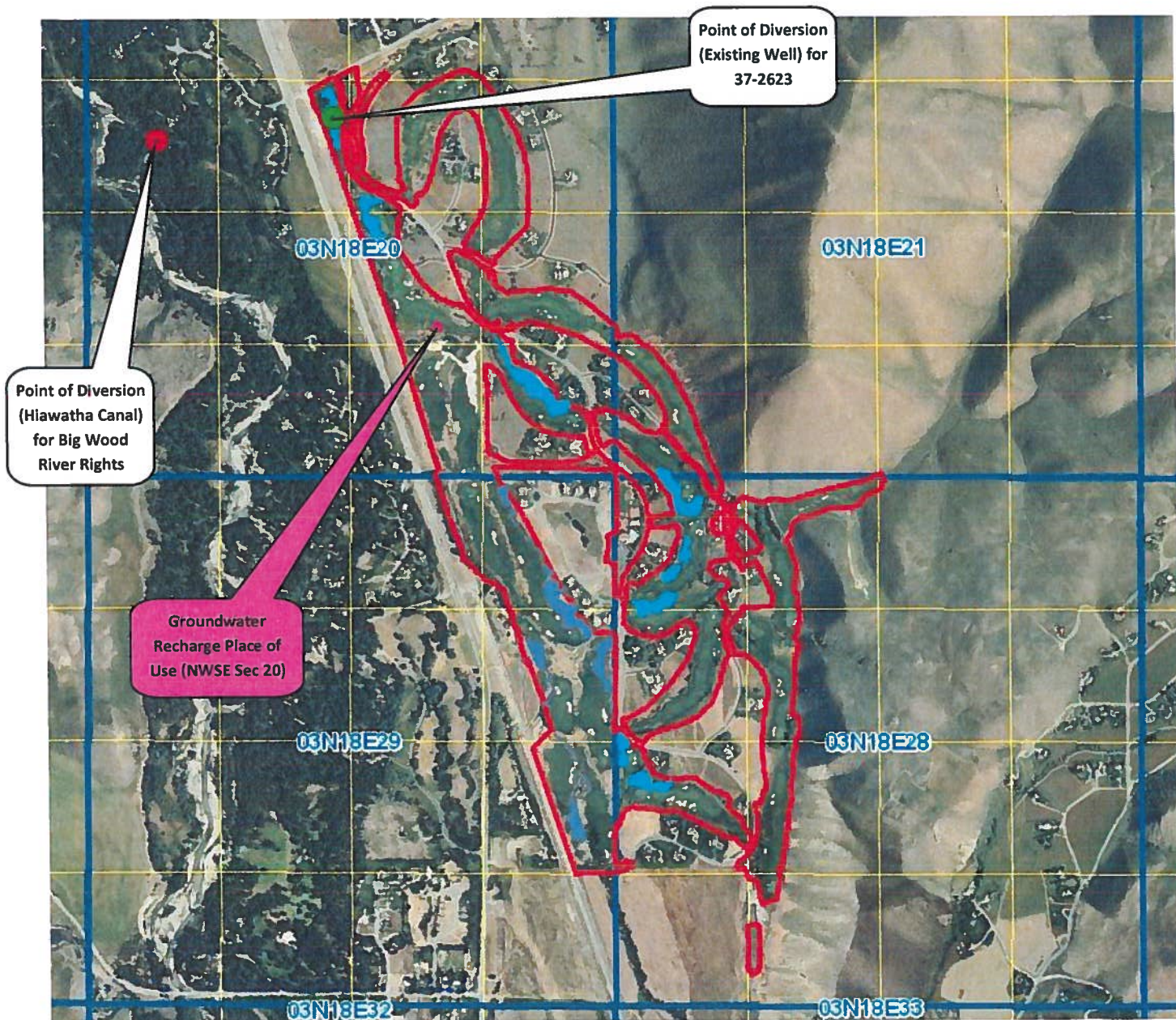
Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20			X					X					X	X			X
03N 18E 21											X						
03N 18E 28					X	X				X							

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 18E 20	.9	18.0	9.6	.2				5.0					16.0	20.0	18.0	15.0	102.7
03N 18E 21											15.0						15.0
03N 18E 28					13.0	27.0	18.0	12.0	9.4	13.0		2.6					95.0
03N 18E 29	15.0	6.4		23.0									18.0				62.4

Total Acres: 275.1

IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT



Proposed Irrigation Permissible Place of Use

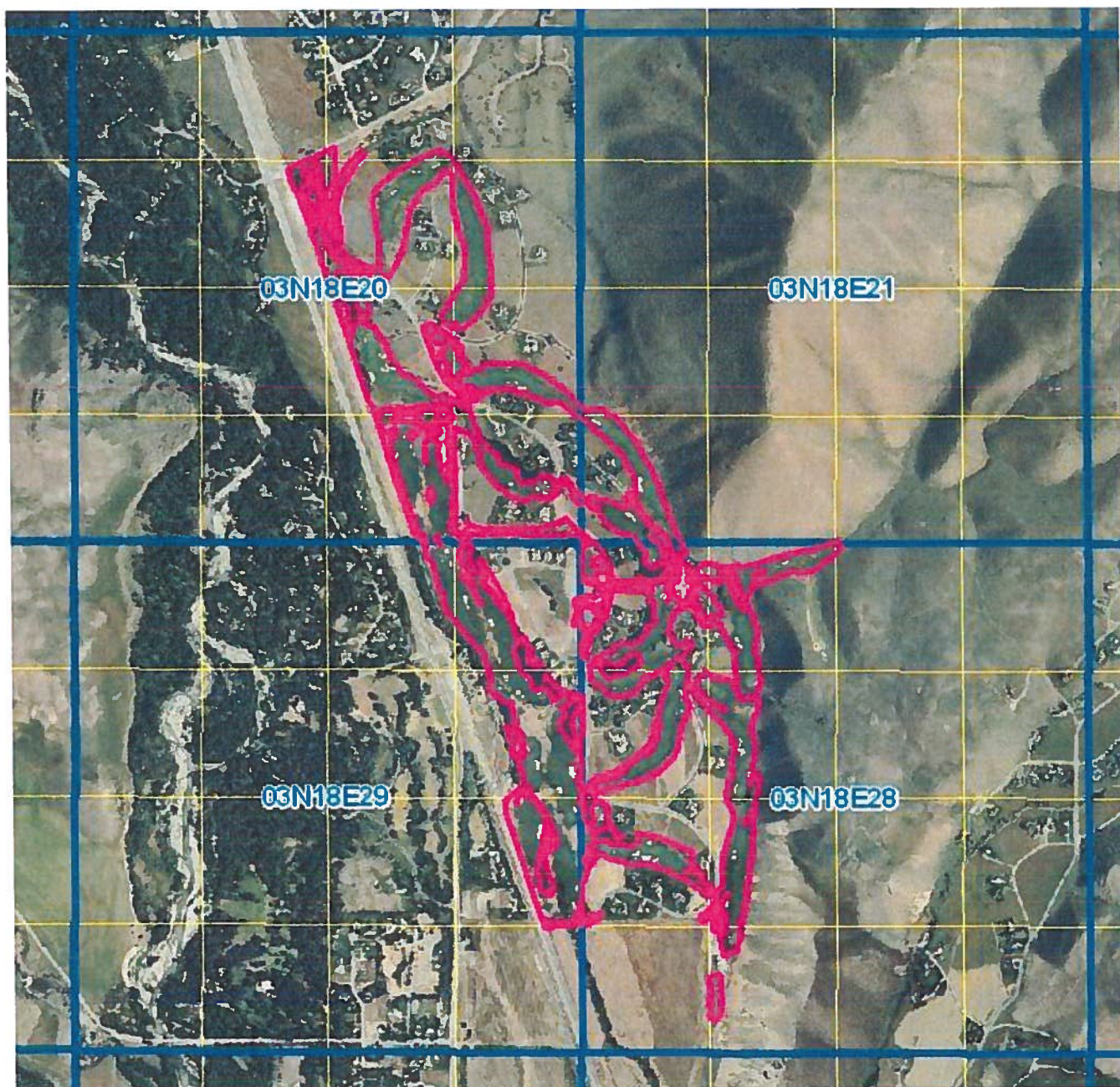


37-657B Aesthetic and Recreation Storage Place of Use



37-494, 37-495, 37-577BV, 37-833K, and 37-2623 Recreation Place of Use

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT**



Initial 208.3 Acre Area to be Irrigated within Proposed Permissible Place of Use

The Northern Trust Company
50 South La Salle Street
Chicago, Illinois 60603
(312) 630-6000



Northern Trust

W. Derek Naumann
Vice President
Wealth Advisory Services
(312) 630-6652 p
(312) 935-5547 f
wdn1@ntrs.com

RECEIVED

NOV 13 2012

**DEPT. OF WATER RESOURCES
SOUTHERN REGION**

November 2, 2012

Mr. Allen Merritt
Idaho Department of Water Resources
Southern Regional Office
1341 Fillmore Street
Twin Falls, ID 83301-3033

Re: The Valley Club, Inc. Application for Transfer of Water Right Nos. 37-657B, 37494, 37-495,
37-577BU, 37-577BV, 37-833K and 37-2623

Dear Mr. Merritt,

Northern Trust is the holder of a mortgage encumbering real property owned by The Valley Club, Inc. in Blaine County, Idaho. We have been informed by The Valley Club, Inc. of its pending water rights transfer application seeking to revise the authorized place of use for the above-referenced water rights appurtenant to the Valley Club property. This is to advise you that Northern Trust has no objection to the water right transfer being approved.

Sincerely,

W. Derek Naumann
Vice President



State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region, 1341 Fillmore Street, Suite 200 • Twin Falls, Idaho 83301-3380

Phone: (208) 736-3033 • Fax: (208) 736-3037 • Web Site: www.idwr.idaho.gov

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

May 29, 2013

THE VALLEY CLUB INC
PO BOX 252
SUN VALLEY, ID 83353

RE: Transfer No. 78255
Water Right No(s). 37-2623, 37-494, 37-495, 37-577BU, 37-577BV, 37-657B,
37-833K

Dear Applicant(s):

The Department of Water Resources has received your water right transfer application. Please refer to the transfer number referenced above in all future correspondence regarding this transfer.

A legal notice of the application has been prepared and is scheduled for publication in the **IDAHO MOUNTAIN EXPRESS** on **6/5/2013** and **6/12/2013**. Protests to this application may be submitted for a period ending ten (10) days after the second publication (**June 24, 2013**).

If the application is protested, you will be sent a copy of each protest. All protests must be resolved before the application can be considered for approval. If the protest(s) cannot be resolved voluntarily, the Department will conduct a conference and/or hearing on the matter.

If the application is not protested, the Department will process your application and notify you of any action taken on the application. If your application is approved, the Department will send you a copy of the approval document.

Please contact this office if you have any questions regarding the application.

Sincerely,

Denise Maline
Administrative Assistant

cc:

MICHAEL C CREAMER
GIVENS PURSLEY LLP
277 N 6TH ST STE 200
PO BOX 2720
BOISE, ID 83701-2720

Maline, Denise

From: Maline, Denise
Sent: Wednesday, May 29, 2013 12:57 PM
To: Idaho Mountain Express
Subject: LEGAL NOTICE
Attachments: Idaho Mtn Express Cover Letter.docx; Idaho Mtn Express Ad.docx

Attached please find (1) legal notice being submitted for publication on June 5th & 12th, 2013. Please contact me if you have any questions, or if you are not able to run the ad on the dates requested.

Thank you in advance,

Denise Maline
Administrative Assistant
Idaho Department of Water Resources
1341 Fillmore St, Ste 200
Twin Falls, Idaho 83301
(208) 736-3033
denise.maline@idwr.idaho.gov

May 29, 2013

LEGAL NOTICE DEPARTMENT
IDAHO MOUNTAIN EXPRESS
PO BOX 1013
KETCHUM, ID 83340

RE: Transfer No. 78255
Water Right No(s): 37-2623, 37-494, 37-495, 37-577BU, 37-577BV, 37-657B, 37-833K

Dear Legal Notice Department:

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

An affidavit of publication must be submitted to the Department along with the publication bill. Please send the affidavit and bill to this office before June 24, 2013. Your cooperation is appreciated.

Sincerely,

Denise Maline
Administrative Assistant

Enclosure(s)

**NOTICE OF PROPOSED CHANGE OF WATER RIGHT
TRANSFER NO. 78255**

THE VALLEY CLUB INC, PO BOX 252, SUN VALLEY, ID 83353; has filed Application No. 78255 for changes to the following water rights within BLAINE County(s): Right No(s). 37-2623, 37-494, 37-495, 37-577BU, 37-577BV, 37-657B, 37-833K; to see a full description of these rights and the proposed transfer, please see www.idwr.idaho.gov/apps/ExtSearch/WRFiling.asp. The purpose of the transfer is to change a portion of the above rights as follows: Application proposes to convert 10.8 acres (12.8 AFA) of irrigation from Big Wood River water rights 37-494, 37-495, 37-577BU, 37-577BV, and 37-833K to groundwater recharge use. The groundwater recharge use is proposed by the applicant to provide mitigation as necessary for supplemental irrigation occurring under water right 37-2623. Application also proposes creating a common permissible place of use (PPU) for the remaining irrigation portions of rights 37-494, 37-495, 37-577BU, 37-577BV, 37-833K, along with right 37-657B and groundwater right 37-2623. Application will also correctly identify the place of use (POU) to reflect actual locations of use for the recreation portions of rights 37-494, 37-495, 37-577BV, 37-833K, and 37-2623. Rights 37-494, 37-495, 37-577BU, 37-577BV, 37-833K, and 37-2623 are currently authorized to divert up to 8.44 CFS to provide recreation and irrigation uses (143.8 acres) on a golf course located approximately 2.4 to 4.2 mi. N & 0.4 to 1.3 mi. W of Hailey. Right 37-657B is currently authorized to provide up to 1.65 CFS for irrigation (75.3 acres) and recreation use on an adjacent portion of the course, located approximately 2.5 to 3.5 mi. N & 0.8 to 1.2 mi. W of Hailey. The proposed PPU will incorporate portions of the current authorized POU for the included rights along with adjacent ground for a total of 276.7 acres, and will be located approximately 2.3 to 4.1 mi. N & 0.24 to 1.3 mi. W of Hailey. After the proposed changes, rights 37-494, 37-495, 37-577BU, 37-577BV, 37-833K, and 37-2623 will be limited to 133 acres of irrigation and right 37-657B will be limited to 75.3 acre, for a total of 208.3 acres of irrigation within a 276.7-acre PPU.

For additional information concerning the property location, contact Southern Region office at (208) 736-3033. Protests may be submitted based on the criteria of Idaho Code Sec. 42-222. Any protest against the proposed change must be filed with the Department of Water Resources, Southern Region, 1341 Fillmore St, Suite 200, Twin Falls ID 83301 together with a protest fee of \$25.00 for each application on or before June 24, 2013. The protestant must also send a copy of the protest to the applicant.

GARY SPACKMAN, Director
Published on June 5th & 12th, 2013

Maline, Denise

From: Maline, Denise
Sent: Wednesday, May 29, 2013 3:12 PM
To: 'Kevin Lakey'
Subject: Comment letter for Transfer 78255
Attachments: Comment Letter WM37.pdf

Kevin --

Attached please find a cover letter and recommendation form, referencing an application for transfer on file with the department. Please review the information and provide any comments you may have, within the next 21 days. If you have any questions regarding this information, please feel free to contact our office.

Sincerely,

Denise Maline
Administrative Assistant, Southern Region
Idaho Dept of Water Resources
1341 Fillmore St, Ste 200
Twin Falls, ID 83301
(208) 736-3033
denise.maline@idwr.idaho.gov



State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region, 1341 Fillmore Street, Suite 200 • Twin Falls, Idaho 83301-3380
Phone: (208) 736-3033 • Fax: (208) 736-3037 • Web Site: www.idwr.idaho.gov

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

May 29, 2013

KEVIN LAKEY
WATER DISTRICT #37
107 W 1ST
SHOSHONE, ID 83352

Via E-mail

RE: Transfer No. 78255
Water Right No(s): 37-2623, 37-494, 37-495, 37-577BU, 37-577BV, 37-657B,
37-833K

Dear Mr. Lakey:

A copy of the above referenced application is enclosed. Please review the application, then complete the enclosed recommendation form and return it to this office within 21 days of the date of this letter. Due to the size of this transfer document, you can view it by following this link: www.idwr.idaho.gov/apps/ExtSearch/WRFiling.asp.

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

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

Sincerely,

Denise Maline
Administrative Assistant

Enclosure(s)

RECEIVED

MAR 28 2013

DEPT. OF WATER RESOURCES
SOUTHERN REGION

GIVENS PURSLEY^{LLP}

LAW OFFICES

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PO Box 2720, Boise, Idaho 83701
TELEPHONE: 208 388-1200
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Clint R. Bolinder
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Jeremy C. Chou
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Michael C. Creamer
Amber N. Dina
Elizabeth M. Donick
Thomas E. Dvorak
Jeffrey C. Fereday
Martin C. Handrickson
Steven J. Hippler
Donald E. Knickrehm
Debora K. Kristensen
Anne C. Kunkel
Michael P. Lawrence
Franklin G. Lee
David R. Lombardi
Emily L. McClure
Kenneth R. McClure
Kelly Greene McConnell
Alex P. McLaughlin
Christopher H. Meyer
L. Edward Miller
Patrick J. Miller
Judson B. Montgomery
Deborah E. Nelson

W. Hugh O'Riordan, LL.M.
Angela M. Reed
Mark R. Scoville
Robert B. White

Retired:
Kenneth L. Pursley
James A. McClure (1924-2011)
Raymond D. Givens (1917-2008)

March 27, 2013

Mr. Jeff Cooper
Southern Idaho Regional Office
Idaho Department of Water Resources
1341 Fillmore St, Ste 200
Twin Falls ID 83301-3380

Re: Amended Application for Transfer of Water Right – Transfer No. 78255

Dear Mr. Cooper:

I am enclosing The Valley Club's Amended Application for Transfer No. 78255. As we recently discussed, the reason for this amendment is to reconcile several discrepancies regarding the permissible place of use requested in the original application. This resulted in a slight increase in the requested permissible place of use, but not in authorized irrigated acres or the mitigation proposal. As we also discussed, in lieu of submitting substitution pages to the Application as originally filed, I am forwarding the amendment in its entirety. For your convenience I have also included a set of pages highlighted in yellow to show where the changes in the requested permissible place of use occurred. I have signed this amendment on behalf of The Valley Club pursuant to a Special Power of Attorney for Water Rights, a copy of which is enclosed.

Finally, you had provided me the opportunity to review a draft of the notice of application and provide you with my comments. These are incorporated below, and include stating that the ground water recharge use is to be for mitigation as necessary for water right no. 37-2623, and to revise the requested PPU to 276.7 acres.

Application proposes to convert 10.8 acres (12.8 AFA) of irrigation from Big Wood River water rights 37-494, 37-495, 37-577BU, 37-577BV, and 37-833K to groundwater recharge use.

Mr. Jeff Cooper
March 27, 2013
Page 2

The groundwater recharge use is proposed by the applicant to provide mitigation as necessary for diversion of ground water for supplemental irrigation occurring underground water right 37-2623. Application also proposes creating a common permissible place of use (PPU) for the remaining irrigation portions of rights 37-494, 37-495, 37-577BU, 37-577BV, 37-833K, along with right 37-657B and groundwater right 37-2623. Application will also correctly identify the place of use (POU) to reflect actual locations of use for the recreation portions of rights 37-494, 37-495, 37-577BV, 37-833K, and 37-2623. Rights 37-494, 37-495, 37-577BU, 37-577BV, 37-833K, and 37-2623 are currently authorized to divert up to 8.44 CFS to provide recreation and irrigation uses (143.8 acres) on a golf course located approximately 2.4 to 4.2 mi. N & 0.4 to 1.3 mi. W of Hailey. Right 37-657B is currently authorized to provide up to 1.65 CFS for irrigation (75.3 acres) and recreation use on an adjacent portion of the course, located approximately 2.5 to 3.5 mi. N & 0.8 to 1.2 mi. W of Hailey. The proposed PPU will incorporate portions of the current authorized POU for the included rights along with adjacent ground for a total of 276.7 acres, and will be located approximately 2.3 to 4.1 mi. N & 0.24 to 1.3 mi. W of Hailey. After the proposed changes, rights 37-494, 37-495, 37-577BU, 37-577BV, 37-833K, and 37-2623 will be limited to 133 acres of irrigation and right 37-657B will be limited to 75.3 acre, for a total of 208.3 acres of irrigation within a 276.7 -acre PPU.

If you have any questions after reviewing these materials or if I can provide you anything further, please let me know.

Sincerely,



Michael C. Creamer

MCC:jss
1737748_1 [9365-4]

cc: Barry Bevers
Courtney Black

GIVENS PURSLEY LLP

RECEIVED

NOV 13 2012

DEPT. OF WATER RESOURCES
SOUTHERN REGION

LAW OFFICES

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Robert B. White

Retired:
Kenneth L. Pursley
James A. McClure (1924-2011)
Raymond D. Givens (1917-2008)

November 8, 2012

Allen D. Merritt
Southern Idaho Regional Office
Idaho Department of Water Resources
1341 Fillmore Street, Ste. 200
Twin Falls, ID 83301-3380

Re: *The Valley Club*
GP File No. 9365-1

Dear Allen:

Enclosed is an original *Application for Transfer of Water Right* to be filed in your office for The Valley Club, Inc. Also enclosed are a check in the amount of \$1550.00 to cover the filing fee for this *Application* and a copy of an acknowledgment and consent to the transfer by The Northern Trust Company. I am also enclosing an additional copy that I wish to be conformed/date stamped by your office and returned to me in the enclosed mailer. ✓ *MC*

If you or your staff have any questions concerning the *Application*, please contact me at (208) 388-1247.

Sincerely,


Michael C. Creamer

MCC:jss
Enclosures
1620143_1 [9365-1]

Allen D. Merritt
Southern Idaho Regional Office
Idaho Department of Water Resources
November 8, 2012
Page 2

cc: Barry Bevers (w/encs.)
Chuck Brendecke (w/encs.)
Chuck Brockway (w/encs.)

**Substantiating Report
in Support of
Water Rights Transfers
and
Mitigation Plan**

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

October 2012



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.

Courtney Black, P.E.

303.443.7839

chuck.brendecke@amec.com

courtney.black@amec.com

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Table 2: Historical Water Use on the Irwin and West 9 Courses
Table 3: TVC Irrigation Demand and Monthly Pumping Schedule
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Table 7: Pre and Post Transfer Diversion Rates and Authorized Acres
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Table 9: Template of TVC Accounting

APPENDICES

Appendix A: Figures
Appendix B: Big Wood Aquifer and River Simulated Response to Proposed Valley Club Recharge and Extraction Using a Big Wood River Aquifer Groundwater Model

1.0 PROJECT BACKGROUND

The Valley Club (TVC) owns and operates two adjacent golf courses near the City of Hailey in Blaine County, Idaho, the 18-hole “Irwin Course” and the 9-hole “West 9 Course.” These golf courses are presently irrigated by surface water diverted from the Big Wood River and by groundwater. The surface water rights held by TVC are sufficient to meet golf course irrigation requirements in most years. Groundwater is used to provide a supplemental supply or when the surface water delivery system is not fully operating.

This report is in support of a submitted water right transfer application seeking to consolidate the water rights place-of-use designations for the two golf courses into a single integrated Permissible Place of Use (PPU), and approval of a proposed groundwater recharge project to mitigate out-of-priority groundwater depletions (“Application”). The mitigation component of the Application involves the dry-up of 10.8 acres of irrigated land and a change in the purpose of use of the portion of the surface water rights appurtenant to those 10.8 acres from irrigation to recharge. The PPU component would optimize irrigation efficiency and water management on TVC’s Irwin and West 9 courses. Information is presented in this report on TVC’s existing water rights and irrigation operations. The technical analyses necessary for evaluation of the proposed transfers and post-transfer monitoring practices are also provided.

2.0 Existing Water Rights and Irrigation Practices

The Irwin Course became operational in 1996, and the West 9 Course became operational in 2007. Although the two courses are adjacent and operated jointly, they are presently irrigated using separate portfolios of surface and groundwater rights described more fully in Section 2.1.

2.1 Water Rights

The principal water supplies for the Irwin and West 9 Courses are derived from decreed surface water rights delivered via the Hiawatha Canal from the Big Wood River. The water rights appurtenant to the Irwin course were previously changed from their original use via approved Transfer Nos. 3742 and 3743 in 1991. Water rights appurtenant to the West 9 Course were previously changed from their original use via approved Transfer No. 71721 in 2005. TVC’s groundwater right is used as a supplemental supply to Irwin Course water rights 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 for the Irwin and West 9 Courses are presented in Table 1.

In Transfer Nos. 3742 and 3743, the Irwin Course water rights were combined and made subject to certain conditions of use, including the following:

- Combined diversion rate for surface rights not to exceed 7.24 cfs
- Combined total irrigated area not to exceed 143.8 acres
- Water application on Irwin Course not to exceed 3 acre-feet/acre/year

In Transfer No. 71721, the West 9 water right 37-657B, was conditioned as follows:

- Combined total irrigated area of West 9, including Village Green (a planned unit development) landscaped areas, not to exceed 93.7 acres
- Combined application of West 9 surface right not to exceed 0.02 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 were offset by dedication of portions of TVC surface water rights changed in Transfers 3472, 3473, and 71721. These dedications are shown as recreation and/or aesthetic uses in Table 1. Accordingly, pond surface areas for these courses are not included in the irrigated acreage limitations shown in Table 1 or described above and elsewhere in this report.

The present authorized irrigation acres within the PPU for each water right are presented in Table 1. As discussed above, the conditions of approval for each water right limit the amount of land that may be irrigated using a combined set of water rights. This is reflected in Column J of Table 1, showing that the irrigation of the Irwin Course using all of the Irwin portfolio water rights is limited to 143.8 acres.

The West 9 Course water right, 37-657B, historically has been delivered for irrigation of the golf course and certain landscaped areas in the Village Green residential development (situated between the West 9 and Irwin Courses), along with a few other isolated, small parcels. By agreement with the Village Green owner, TVC has conveyed to The Village Green at the Valley Club Homeowners Association, Inc. (VGHOA) 0.37 cfs of right 37-657B to be used by VGHOA to irrigate 18.36 acres of common areas within the Village Green subdivision and any landscaping associated with an adjacent community housing project known as the Agave Place parcel. This split portion of 37-657B owned by VGHOA has now been assigned water right number 37-22657 and is not involved in this transfer application by TVC. TVC's retained portion of 37-657B currently authorizes the use of 1.53 cfs for irrigation of 75.3 acres (93.7 –

18.36) within an 89 acre PPU on the West 9 Course. This is reflected in Column J of Table 1, showing TVC's authorized irrigation use of the West 9 water right 37-657B to be 75.3 acres.

2.2 Delivery of Irrigation Water

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 shown in Figure 1. By agreement with the canal company, the Hiawatha Canal flows through and serves as a water amenity on a portion of the West 9 Course.

The upper turnout is presently used to deliver surface water rights having priority dates of 1883 and later to irrigation and aesthetic uses on 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 one of these ponds into the golf course irrigation system. TVC's groundwater 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, though it has physical capacity to divert a greater amount. This water is delivered from the Hiawatha Canal by gravity into a separate pond and then pumped into the irrigation system for the West 9 Course.

3.0 Historical Water Use

TVC's irrigation water use is measured continuously at the discharges of the two pumping plants feeding the pressurized sprinkler distribution systems. Historical water use records exist for the Irwin Course for the period 2001 through 2011 and from 2007-2011 for the West 9 Course. These are summarized in Table 2. Additionally a minor amount (less than 1 percent) of the TVC irrigation is delivered through manual connections to the pressurized system. To date, systematic records of the manual irrigation have not been made. Records of this irrigation use will be maintained as a component of the accounting for these proposed transfers in the future. Average annual irrigation water use on the Irwin Course and West 9 courses is approximately 1.5 acre-feet/acre.

4.0 TVC Groundwater Use

TVC sometimes cannot receive a sufficient surface water supply via the Hiawatha Canal. This stems primarily from operational constraints in the Canal itself, though in very dry years TVC's

surface water rights also may be insufficient in the late season. In such situations TVC is required to pump groundwater under its water right no. 37-2623 from its existing well, shown in Figure 2, to meet irrigation demands. A meter will be installed on the pump during the 2012 irrigation season and will be used to measure groundwater pumping in the future. However, historical pumping data for this well is not available for this transfer application.

The amount of groundwater pumping estimated to be necessary to satisfy irrigation requirements of the Irwin and West 9 courses following approval of both of these transfers is 12.8 acre-feet/year, which also is equivalent to the amount of water proposed to be made available for recharge as mitigation as detailed in Section 5 below. Table 3 provides a monthly pumping schedule representative of TVC's supplemental use of groundwater for irrigation purposes. This monthly pattern is based upon an analysis of the historical irrigation requirement for the golf courses and on discussions with TVC operations personnel.

TVC's total irrigation requirements following the proposed transfers were developed by estimating consumptive use using evapotranspiration rates measured at the Hailey Ranger Station gage¹ for turf and native grasses. These ET rates were multiplied by the respective turf and native grass acres included in the proposed post-transfer TVC authorized irrigated acres.² A conveyance efficiency of 94 percent was applied to the consumptive use estimates to determine the irrigation demand at the turnouts from the Hiawatha. This 94 percent conveyance efficiency is generally representative of the overall efficiency of TVC's golf course sprinkler system. The post-transfer TVC consumptive use and irrigation demands are provided in Table 3.

5.0 Transfer to Mitigate Out-Of-Priority Groundwater Pumping

TVC's groundwater right 37-2623 is a relatively junior water right (priority date 1959). While conjunctive administration of surface and groundwater rights has not yet been applied in the upper portion of Water District 37 (the Big Wood River basin above Magic Reservoir) it is anticipated to occur in the future. When this happens, TVC's groundwater right is expected to be periodically out of priority (i.e., curtailed for the benefit of more senior surface water rights). For TVC to use this groundwater right under such conditions, mitigation is expected to be necessary to offset out-of-priority groundwater depletions to the Big Wood River.

TVC proposes to eliminate irrigation of 10.8 acres formerly irrigated using Irwin Golf Course's water rights. These lands lie within the authorized PPU of the Irwin Course water rights. The

¹ University of Idaho. Kimberly R&E Center. <http://www.kimberly.uidaho.edu/ETIdaho/>

² This includes the West 9 Village Green & Community Housing development carve-off and the 10.8 acre dry-up discussed in Sections 2.1 and 5.0, respectively.

water previously used to irrigate these lands would be recharged into the alluvial aquifer system of the Big Wood valley to mitigate groundwater pumping depletions.

5.1 Mitigation Recharge Credit

AMEC estimated the annual irrigation requirement for the 10.8 acres of dry-up land to determine the amount of water that should be applied to recharge to provide an appropriate offset to depletions attributable to TVC's ground water use. Figure 2 identifies the 10.8 acres proposed for dry-up.

Approximately 4.7 acres of the dry-up area consists of native grasses and the remaining 6.1 acres consists of turf. Table 4 presents the estimated consumptive use and irrigation requirements for these acres using the same techniques applied in Section 4.0 to estimate TVC's total irrigation requirements. This analysis indicates that a total of 12.8 acre-feet were historically consumptively used on the dry-up area. This is the amount that may be used for mitigation recharge purposes on an annual basis.

As of the 2013 irrigation season, TVC will no longer irrigate the dry-up parcel with TVC water rights. A portion of the dry-up land may continue to be irrigated using other water rights that the VCOA possesses or may acquire.

5.2 Recharge Operations

TVC proposes to recharge the alluvial aquifer system of the Big Wood valley using the portion of its surface water rights being removed from the 10.8 dry-up acres. This will be accomplished via recharge facilities constructed adjacent to those built by Dry Lot LLC, (Dry Lot). Dry Lot has previously received approval [Transfer No. 74449] from the Department for recharge to mitigate its own groundwater pumping depletions associated with irrigation of residential lots and common areas within the Valley Club residential subdivision. The recharge site is located on TVC-owned land in Township 3 North, Range 18 East, Section 20, NWSE, as shown in Figure 2.

In consideration of Dry Lot's use of TVC-owned land for its recharge facilities, the Dry Lot recharge facility was expanded slightly to accommodate TVC's own recharge needs. A separate recharge basin of 4,128 square feet and having a design capacity of 50 gpm or 15 acre-feet per year was provided for TVC under the terms of an agreement between TVC and Dry Lot. Other improvements in diversion facilities are also addressed in this agreement.

The TVC Irwin water rights previously used to irrigate the dry-up lands will be conveyed to the TVC recharge basin through main irrigation lines serving the West 9 golf course. These water

rights and associated allocation of flow rates proposed for recharge and remaining irrigation of TVC are listed in Table 5. The recharge flow rate for each individual water right in the Irwin Course portfolio was prorated based on ratio of dry-up acreage (10.8 acres) to the total authorized acreage under the Irwin Course water rights portfolio. For example the recharge portion for water right 37-577BV was calculated as:

$$1.56 \text{ cfs} * 10.8 \text{ acres} / 143.8 \text{ acres} = 0.12 \text{ cfs}$$

Water not prorated for recharge will continue to be conveyed to the TVC golf courses for irrigation use.

As previously noted, TVC will deliver up to 12.8 acre-feet of the Irwin water rights for recharge on an annual basis, although it is not contemplated that TVC necessarily will divert groundwater in every year to an extent that would produce 12.8 acre-feet of out-of-priority depletion. Consistent with the general terms and conditions of the approved Dry Lot application, at least 60 percent of this recharge water (9 acre-feet) will be recharged in the latter half of the irrigation season after June 1 to more closely match the timing of return flows of recharged water and depletions from TVC's groundwater pumping to the Big Wood River. Table 6 provides the monthly recharge and groundwater pumping schedules. This recharge schedule is consistent with the recharge schedule recently approved by the Department for the Dry Lot LLC transfer which also specifies the same percentage of recharge following June 1.

5.3 Aquifer and Big Wood River Impacts

Potential impacts to the underlying aquifer and Big Wood River as a result of the TVC's groundwater recharge and mitigation project were evaluated by Brockway Engineering, PLLC using a MODFLOW groundwater model of the Big Wood River Aquifer that has been reviewed by a technical review committee including staff from the Department. This Big Wood groundwater model was used by Brockway Engineering to evaluate the impacts of the approved Dry Lot LLC transfer and mitigation plan. Brockway's report of its evaluation of the TVC recharge project proposed as mitigation in the TVC Application using this model is provided in Appendix B.

The conclusions of this study indicate that the proposed TVC groundwater mitigation recharge transfer is not expected to result in detectable impacts at nearby wells. The recharge will result in an annual net gain to the Big Wood River. The groundwater modeling report is available in Appendix C for informational purposes.

5.4 Monitoring

Appropriate water flow controls and monitoring equipment will be installed to measure diversions from the Hiawatha Canal and recharge into the Dry Lot and TVC recharge basins, as well as groundwater pumping and ongoing deliveries of surface water to irrigation. TVC will control and measure all diversions from the Hiawatha Canal via the TVC pump.

6.0 Transfer to Consolidate Permissible Place of Use

TVC's Application also seeks to combine the present PPUs for the Irwin and West 9 Course into one integrated PPU that incorporates all of the presently authorized irrigated area on the Irwin and West 9 golf courses. The present PPUs for the Irwin and West 9 Course water rights constrain the use of the water rights to irrigation of the individual golf courses. For example, use of the West 9 water right (37-657B) is limited to irrigation solely of the West 9 Course. This restriction inhibits efficient water distribution and precludes the selective use of the most senior water rights to maintain critical features of the golf courses (e.g., tees and greens) in severe drought conditions. For example, if only the 1881 water right (37-657B) is in priority, TVC is currently allowed to irrigate the entire West 9 Course (including rough), but is precluded from irrigating even the greens on the Irwin Course. TVC desires to be able to use its most senior water rights to maintain the most important features of its golf courses if and when its more junior rights are not in priority. This will promote optimum use of TVC's water rights for the authorized purposes and enhance conservation of the water supply.

6.1 Proposed Integrated PPU and Authorized Irrigated Acreage

Table 7 describes the pre- and proposed post-transfer diversion rates and acres for each of the Irwin and West 9 water rights. Figure 3 presents the proposed integrated 276.2 acre PPU for both the Irwin and West 9 water right portfolios. This area encompasses all the areas the TVC is currently irrigating in addition to areas that TVC might wish to irrigate in the future, as a result of modification to the layout or configurations of tees, greens, fairways, etc.

Authorized irrigation will be limited to 208.3 acres within the proposed PPU, meaning that the total area irrigated at any one time in the PPU would not exceed 208.3 acres. The 208.3 acres is equivalent to the sum of the pre-transfer Irwin Course combined authorized irrigated acres of 143.8 and the West 9 Course's authorized irrigated acres, minus the 10.8 acres of land TVC will no longer irrigate ($143.8 + 75.3 - 10.8 = 208.3$ acres).

While this PPU transfer will not increase authorized irrigated acres, the transfer will improve TVC's flexibility to manage its supplies more efficiently. The most senior water rights can be reserved for, and distributed to, more critical areas of the Irwin and West 9 Courses without

expanding the irrigated acreage authorized by these rights. For instance, TVC will be able to apply the more junior of the Irwin Course water rights to less critical irrigated areas, such as native and rough, on both the Irwin and West 9 Courses. This will reserve the more senior water rights (e.g., the West 9 and Rockwell Bypass water rights) for more critical areas on both courses. This increased flexibility will help ensure that irrigation of critical areas can be maintained during extremely dry periods when and if only the most senior water rights may be available.

6.2 Irrigation Operations

Both existing golf courses include maintained turf areas (tees, greens, fairways and rough), areas of original and planted native vegetation, and ponds. Figure 4 shows the general layout of these features and Table 8 provides the current/planned acreage of each feature. Minor changes may be made to the specific acreage for each feature over time due to landscaping changes (e.g., reconfiguration of sand traps), however this will not change the total amount of irrigated acreage.

Original 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.

TVC irrigation is tightly regulated to ensure that areas are irrigated with a sufficient amount of water without over watering and making the courses less playable. The irrigation of both the Irwin and West 9 Courses is computer-controlled, incorporating continuous on-site weather observation and daily calculation of irrigation requirements. Irrigation areas are divided into zones. Application rates for each zone are customized using a comprehensive database containing information on the layout and operations of the Irwin and West 9 irrigation systems and configurations of individual sprinkler heads. This database includes the following information:

- Layout of the transmission lines and capacities
- Layout of the sprinkler heads including spacing between each head and set rotation
- Data on each sprinkler head including make and model, standard pressure at the bottom of each head, number of nozzles per head and number of heads per zone.
- Standard flow per each sprinkler head (gpm)

- Operational run times for each zone based on daily ET requirements and any manual adjustments made to compensate for isolated wet and dry spots

Operational run times may be adjusted for the various irrigation zones, regulating the amount of water applied to specific areas with a high degree of accuracy.

6.3 Irrigation Monitoring

TVC water rights are administered according to priority date. For example, TVC's most senior water rights are the West 9 right (37-657B), and the Irwin Course Rockwell water right (37-833K³). Following this PPU transfer, TVC will use its computerized system to closely manage and document the amount of water applied to specific areas according to the water rights in priority at a given time. All irrigation will be monitored to ensure that the amount of irrigation water applied and the acres to which it is applied are within the authorized acreage limits. When a call is made on the river, the diversion rates will be limited to the authorized conditions of the surface water rights in priority.

For example, if a call were to be such that the Rockwell right (37-833K) were the only right in priority, irrigation would be limited to the Rockwell right's individual authorized irrigated area of 136.7 acres. As shown in Table 8, the 136.7 authorized irrigation limit will provide enough acres for the irrigation of the most critical components of the golf courses (tees and greens and key portions of fairways). When the senior Rockwell and 37-657B (West 9 right) are both in priority, irrigation will not exceed the combined authorized area of 208.3 acres within the 270.3 acre PPU. The total amount of acres irrigated under any call scenario will not exceed the authorized acreage limit of the water rights in priority.

Delivery pressures and sprinkler specifications will continue to be used to calculate deliveries from each sprinkler head to specific golf course features.

7.0 Accounting

TVC will maintain systematic records of diversions at the turnouts, pump discharges, actually irrigated acres, monthly irrigation (via the pressurized irrigation system), groundwater pumping, and deliveries to recharge. These data will be reported annually to IDWR. Table 9 provides a template of the proposed annual accounting report.

³ Although the Rockwell right's nominal priority date is junior to the West 9 right, in times of scarcity the Rockwell right may be treated as the senior right in accordance to its decreed conditions.

References

Allen and Robison. 2006. *Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho*. <http://www.kimberly.uidaho.edu/ETIdaho/>

Brockway Engineering P.L.L.C. January 18, 2012 *Big Wood Aquifer and River Simulated Response to Proposed Valley Club Recharge and Extraction Using a Big Wood River Aquifer Groundwater Model*. Prepared for: Valley Club, Inc.

1990-95. Water Resources Investigations Report 99-4175.

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.

Table 1 Water Rights on the Irwin and West 9 Courses

Existing Water Rights Specified in Water Right Documents									
Water Right No. [a]	Priority Date [b]	Source [c]	Period of Diversion [d]	Volume ¹ (Acre-feet per year) [e]	Beneficial Use [f]	Diversion Rate ² (cfs) [g]	Combined Diversion Rate ³ (cfs) [h]	Authorized Irrigation Area within PPU ⁴ (acres) [i]	Combined Authorized Irrigation Area ^{5,6} (acres) [j]
Irwin Course Water Rights									
37-833K (Rockwell)	November 12, 1936	Big Wood River	4/15 to 10/31	n/a	Irrigation Recreation	0.69 0.06	7.24	143.8	143.8
37-577BV	March 24, 1883	Big Wood River	4/15 to 10/31	n/a	Irrigation Recreation	1.56 0.13		143.8	
37-494	May 1, 1886	Big Wood River	4/15 to 10/31	n/a	Irrigation Recreation	1.85 0.15		143.8	
37-495	July 1, 1892	Big Wood River	4/15 to 10/31	n/a	Irrigation Recreation	2.59 0.21		143.8	
37-577BU	March 24, 1883	Big Wood River	4/15 to 10/31	n/a	Irrigation Recreation	1.2		143.8	
37-2623	Sept 3, 1959	Ground Water	4/15 to 10/31	431.4	Irrigation Recreation	2.81 0.24	3.05	143.8	
West 9 Course Water Rights									
37-657B	May 1, 1881	Big Wood River	4/1 to 11/1 1/1 to 12/31 1/1 to 12/31 4/1 to 11/01	n/a 13.4 n/a	Irrigation Recreation Aesthetics Diversion to Storage	1.53 0.12	1.65	89	75.3
Total							13.14	n/a	219.1

¹ Present authorized volume of water that may be diverted on an annual basis. N/A indicates that the volume is not specified in the water right.

² Present authorized diversion rate for each individual water right unless otherwise noted

³ Present authorized cumulative diversion rate for a combined set of water rights specified in the conditions of approval unless otherwise noted

⁴ Present authorized irrigation acres in the PPU for each individual water right.

⁵ Present authorized acres that may be irrigated by a combined set of water rights within the PPU. This includes the carve-off for the Village Green and Community Housing developments.

⁶ Acres do not include the surface area of the ponds for the Irwin or West 9 courses.

Table 2 Historical Water Use on the Irwin and West 9 Courses (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
2008	0.0	0.0	28.7	50.0	64.5	60.8	36.7	8.2	249.1
2009	0.0	4.2	38.6	7.1	54.2	44.5	37.6	5.5	191.7
2010	0.0	3.5	26.1	34.7	49.8	45.6	26.9	7.9	194.3
2011	0.0	3.2	24.3	32.4	46.4	42.5	25.1	7.4	181.4
Average	0.1	4.4	33.1	44.1	63.2	57.9	34.1	10.0	247.0
West 9 Course									
2007	0.4	7.1	21.7	24.3	36.4	27.5	14.0	3.8	135.2
2008	0.0	0.0	13.1	23.0	33.8	25.3	14.6	2.8	112.6
2009	0.0	2.7	12.3	3.4	21.5	19.5	15.7	1.2	76.2
2010	0.1	2.6	12.4	13.4	24.2	19.1	11.7	2.0	85.5
2011	0.1	2.6	12.5	13.5	24.4	19.3	11.8	2.0	86.2
Average	0.1	3.3	15.7	16.9	30.6	24.1	14.8	2.6	108.0

Note: Available irrigation data for 2010 and 2011 is limited to the annual irrigation on the following: 2010 irrigation on Irwin, 2011 irrigation on Irwin and West 9. Monthly irrigation rates were prorated using the monthly average percentage distribution from 2001 to 2009 on the Irwin Course and 2007-2009 on the West 9 Course. The West 9 annual irrigation was estimated assuming a linear correlation between the Irwin and West 9 annual irrigation in 2007, 2008, 2009 and 2011 ($r^2=0.95$)

Table 3 TVC Irrigation Demand and Monthly Pumping Schedule

Post Transfer Irrigated Acres			
POU Area	Turf Grass	Native	Total
Irwin	123.8	13.3	137.1
West 9	45.6	25.7	71.2
Total	169.3	39.0	208.3

Average Evapotranspiration Rates (mm/day)*

Precipitation Deficit	Lawn,turf grass irrigated	Native Grass,Range Grasss Early Short Season
Apr	0.47	0.34
May	2.02	1.77
Jun	4.04	0.98
Jul	5.42	0.42
Aug	4.49	0.34
Sep	2.69	0.1
Oct	0.6	0

Final Precipitation Deficit (AF/month)

Month	Irwin		West 9		Total		Irrigation Requirements Assuming Efficiency of 94%		
	ET for Turf	ET for Native	ET for Turf	ET for Native	Irwin	West 9	Irwin	West 9	Total
Apr	5.7	0.4	2.1	0.9	6.2	3.0	6.6	3.2	9.7
May	25.4	2.4	9.4	4.6	27.8	14.0	29.6	14.9	44.5
Jun	49.2	1.3	18.1	2.5	50.5	20.6	53.7	21.9	75.6
Jul	68.2	0.6	25.1	1.1	68.8	26.2	73.2	27.9	101.1
Aug	56.5	0.5	20.8	0.9	57.0	21.7	60.6	23.1	83.7
Sep	32.8	0.1	12.1	0.3	32.9	12.3	35.0	13.1	48.1
Oct	7.6	0.0	2.8	0.0	7.6	2.8	8.0	3.0	11.0
Total (April-Oct)	245.5	5.3	90.3	10.2	250.7	100.5	266.8	107.0	373.7

TVC Monthly Pumping Schedule	
Percentage Monthly Irrigation Requirement	Monthly Pumping Schedule (AF/month)
2.6%	0.33
11.9%	1.52
20.2%	2.59
27.0%	3.46
22.4%	2.87
12.9%	1.65
2.9%	0.38
100.0%	12.80

* Source: Based on Univ of ID ET data for Hailey-http://www.kimberly.uidaho.edu/ETIdaho/

Table 4 Dry-Up Credit Irrigation Demand

Irrigated Acres Proposed for Dry-Up			
	Turf Grass	Native	Total
Acres	6.1	4.7	10.8

Average Evapotranspiration Rates (mm/day)*

Precipitation Deficit	Lawn,turf grass irrigated	Native Grass,Range Grasss Early Short Season
Apr	0.47	0.34
May	2.02	1.77
Jun	4.04	0.98
Jul	5.42	0.42
Aug	4.49	0.34
Sep	2.69	0.1
Oct	0.6	0

Transferable Mitigation Credit (AF)

Month	ET for Turf (AF)	ET for Native (AF)	Total ET (AF)	Irrigation Requirement Accounting for System Efficiency
Apr	0.3	0.0	0.3	0.3
May	1.3	0.0	1.3	1.3
Jun	2.4	0.0	2.4	2.6
Jul	3.4	0.0	3.4	3.6
Aug	2.8	0.0	2.8	3.0
Sep	1.6	0.0	1.6	1.7
Oct	0.4	0.0	0.4	0.4
Total (Apr-Oct)	12.1	0.0	12.1	12.8

*Source: Based on Univ of ID ET data for Hailey-http://www.kimberly.uidaho.edu/ETIdaho/

Table 5 Allocation of Irwin Water Rights for Groundwater Mitigation Recharge Transfer

Water Right No. [a]	Priority Date [b]	Source [c]	Period of Diversion [d]	Volume (AFA) [e]	Beneficial Use [f]	Diversion Rate (cfs)	
						Pre-Transfer [g]	Post Transfer [h]
37-833K (Rockwell)	November 12, 1936	Big Wood River	4/15 to 10/31	n/a	Irrigation	0.69	0.64
					Recharge	0	0.05
37-577BV	March 24, 1883	Big Wood River	4/15 to 10/31	n/a	Irrigation	1.56	1.44
					Recharge	0	0.12
37-494	May 1, 1886	Big Wood River	4/15 to 10/31	n/a	Irrigation	1.85	1.71
					Recharge	0	0.14
37-495	July 1, 1892	Big Wood River	4/15 to 10/31	n/a	Irrigation	2.59	2.40
					Recharge	0	0.19
37-577BU	March 24, 1883	Big Wood River	4/15 to 10/31	n/a	Irrigation	1.2	1.11
					Recharge	0	0.09
Total						7.89	7.89

Table 6 Recharge and Groundwater Pumping Schedules

Month	Recharge	Groundwater Pumping
April	1.54	0.32
May	3.58	1.46
June	4.61	2.58
July	3.07	3.49
Aug	0.00	2.89
Sept	0.00	1.67
Oct	0.00	0.38
Total	12.80	12.80

Table 7 Pre and Post Transfer Diversion Rates and Authorized Acres

Table 7 Pre and Post Transfer Diversion Rates and Authorized Acres															
Water Right No.	Priority Date [b]	Source [c]	Period of Diversion [d]	Volume (AFA) [e]	Beneficial Use [f]	Pre-Transfer		Post Transfer		Pre-Transfer		Post Transfer		Pre-Transfer	Post Transfer
						Diversion Rate (cfs) [g]	TVC Combined Diversion Rate (cfs) [h]	Diversion Rate ¹ (cfs) [i]	TVC Combined Diversion Rate (cfs) [j]	Authorized Irrigation Acres [k]	Combined Authorized Irrigation Acres [l]	Authorized TVC Irrigation Acres ² [m]	Combined Authorized TVC Irrigation Acres [n]		
Irwin Course Water Rights															
37-833K (Rockwell)	12-Nov-36	Big Wood River	4/15 to 10/31	n/a	Irrigation	0.69	7.24	0.64	7.24	143.8	143.8	133.0	133.0	2,560	276.2
					Recreation	0.06		0.06							
					Recharge	0		0.05							
37-577BV	March 24, 1883	Big Wood River	4/15 to 10/31	n/a	Irrigation	1.56		1.44		143.8		133.0			
					Recreation	0.13		0.13							
					Recharge	0		0.12							
37-494	May 1, 1886	Big Wood River	4/15 to 10/31	n/a	Irrigation	1.85		1.71		143.8		133.0			
					Recreation	0.15		0.15							
					Recharge	0		0.14							
37-495	July 1, 1892	Big Wood River	4/15 to 10/31	n/a	Irrigation	2.59		2.40		143.8		133.0			
					Recreation	0.21		0.21							
					Recharge	0		0.19							
37-577BU	March 24, 1883	Big Wood River	4/15 to 10/31	n/a	Irrigation	1.2		1.20		143.8		133.0			
					Recreation	0		0.09							
					Irrigation	2.81		2.60		143.8		133.0			
37-2623	Sep13, 1959	Groundwater	4/15 to 10/31	431.4	Recreation	0.24	3.05	0.24	2.84	143.8		133.0			
West 9 Course Water Rights															
37-657B	May 1, 1881	Big Wood River	4/1 to 11/1	n/a	Irrigation	1.53	1.65	1.53	1.65	75.3	75.3	75.3	75.3	89	
			1/1 to 12/31		Recreation	0.12		0.12							
			1/1 to 12/31	13.4	Aesthetics										
			4/1 to 11/01	n/a	Diversion to Storage										
Total															

¹ This includes the "dry-up" of the Irwin rights and the VGHOA carve-off for the West 9 water right. All diversion rates were prorated based on changes in acres.

² Authorized TVC irrigation following the VGHOA carve-off (18.36 acres) of the West 9 right and reduction in Irwin water right acres (10.8 acres) following "dry-up."

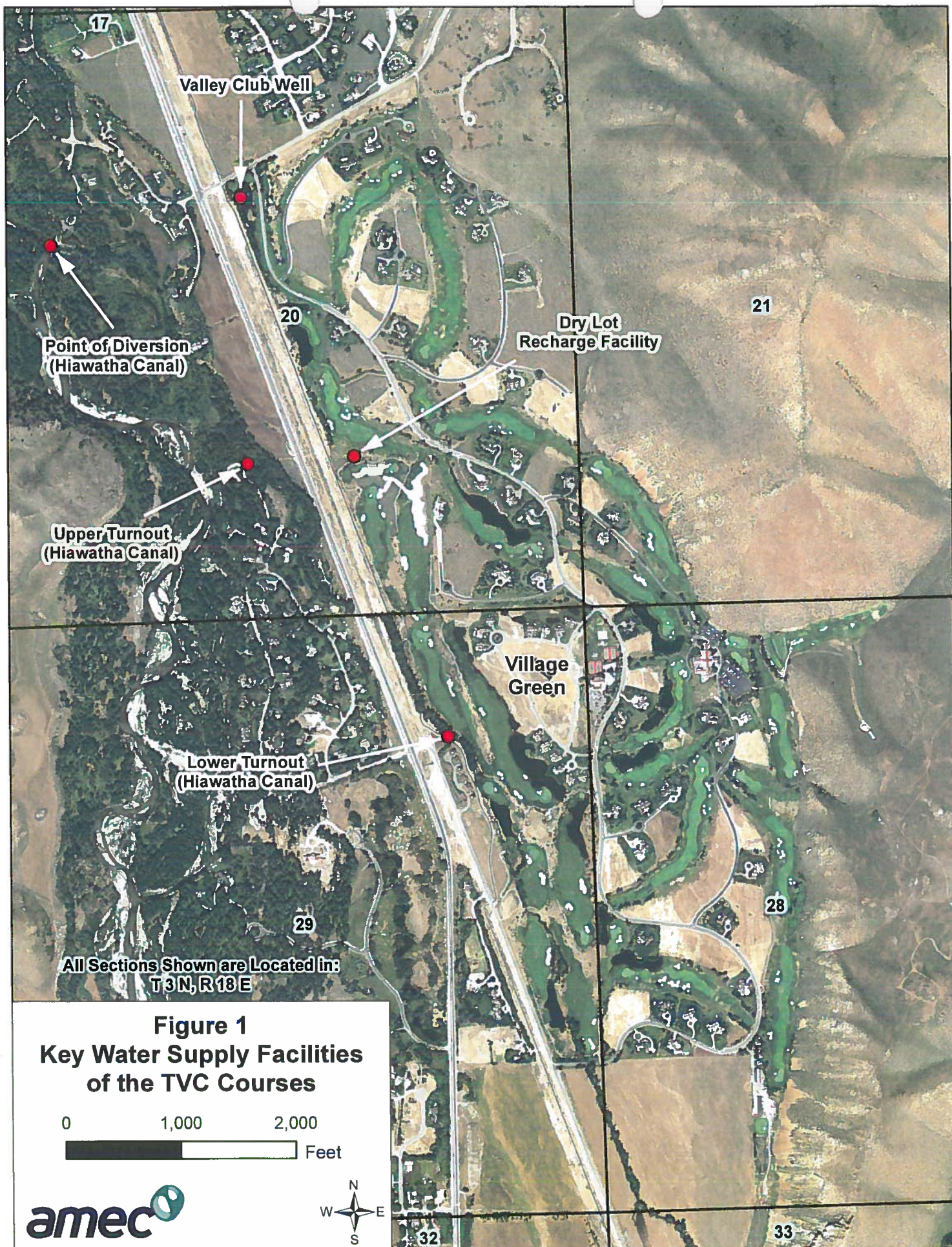
Table 8 Post Transfer Irrigation by Water Right Priority

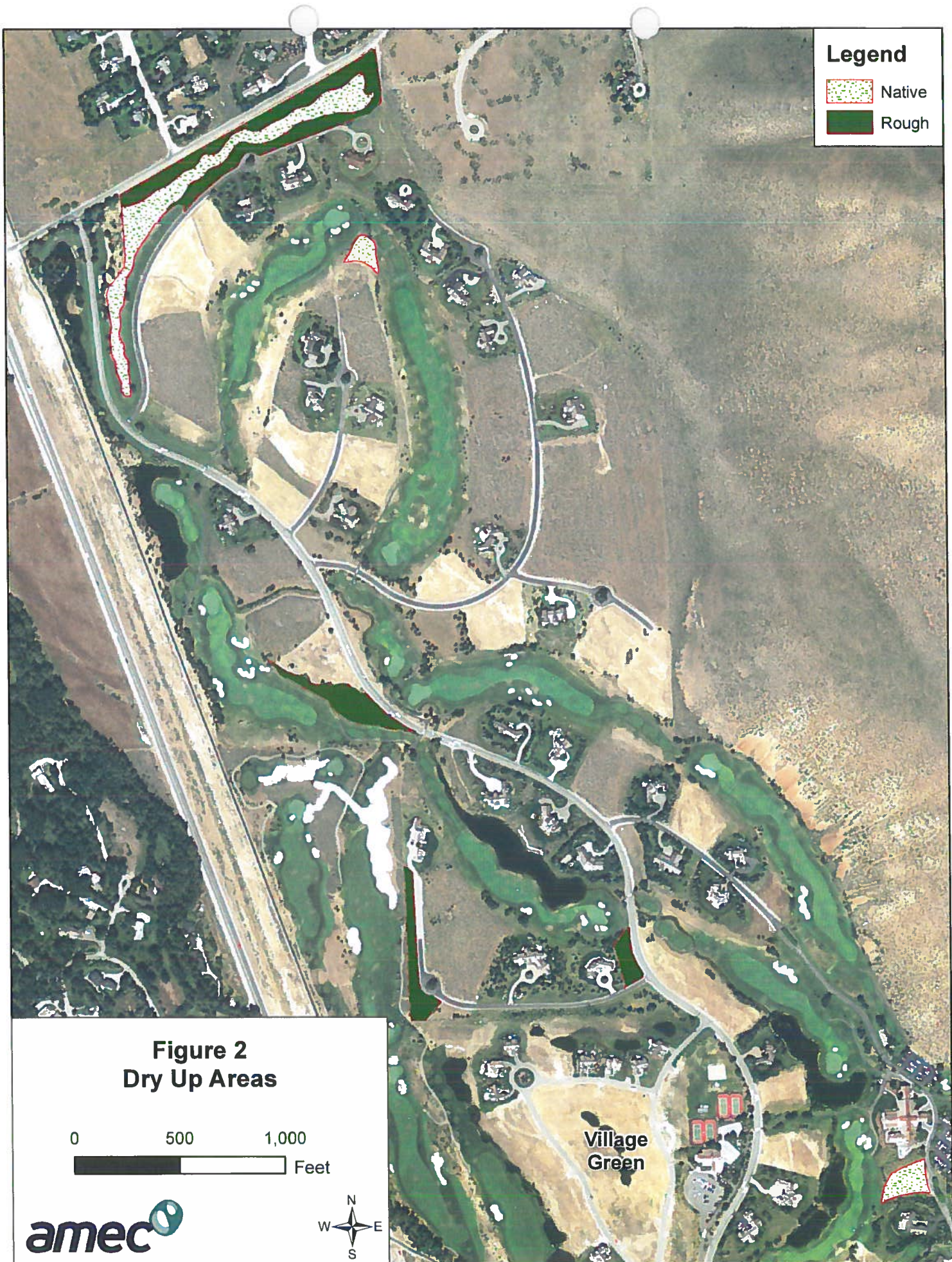
Calling Water Right	Priority Date	Source	Period of Diversion	Recharge Diversion Rate (cfs)		Irrigation Diversion Rate (cfs)		Authorized Irrigation Area (acres)		Area by Feature Based on Current and Planned Landscaping* (acres)					
				Individual Water Right	Combined	Individual Water Right	Combined	Individual Water Right	Combined	Tees	Greens	Fairway	Rough	Native	Total
37-833K (Rockwell)	Nov 12, 1936 (senior to other rights)	Big Wood River	4/15 to 10/31	0.05	0.05	0.94	0.64	136.7	136.7	4.8	4.8	46.8	80.3	0.0	136.7
37-657B	May 1, 1881	Big Wood River	4/1 to 11/1	0.00	0.05	1.53	2.17	75.3	208.3	4.8	4.8	46.8	112.9	39.0	208.3
37-577BV	March 24, 1883	Big Wood River	4/15 to 10/31	0.12	0.17	1.44	3.61	133.0	208.3	4.8	4.8	46.8	112.9	39.0	208.3
37-577BU	March 24, 1883	Big Wood River	4/15 to 10/31	0.09	0.26	1.11	4.72	133.0	208.3	4.8	4.8	46.8	112.9	39.0	208.3
37-494	May 1, 1886	Big Wood River	4/15 to 10/31	0.14	0.40	1.71	6.43	133.0	208.3	4.8	4.8	46.8	112.9	39.0	208.3
37-495	May 1, 1886	Big Wood River	4/15 to 10/31	0.19	0.59	2.40	8.83	133.0	208.3	4.8	4.8	46.8	112.9	39.0	208.3
37-2623	Sept 3, 1959	Ground Water	4/15 to 10/31	0.00	0.59	2.81	11.64	133.0	208.3	4.8	4.8	46.8	112.9	39.0	208.3
Total				0.59	n/a	11.64	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

* The irrigated area by feature may change due to minor landscaping changes over time. Such changes would not increase the total irrigated acres beyond the authorized limits.

Appendix A

Figures





Legend

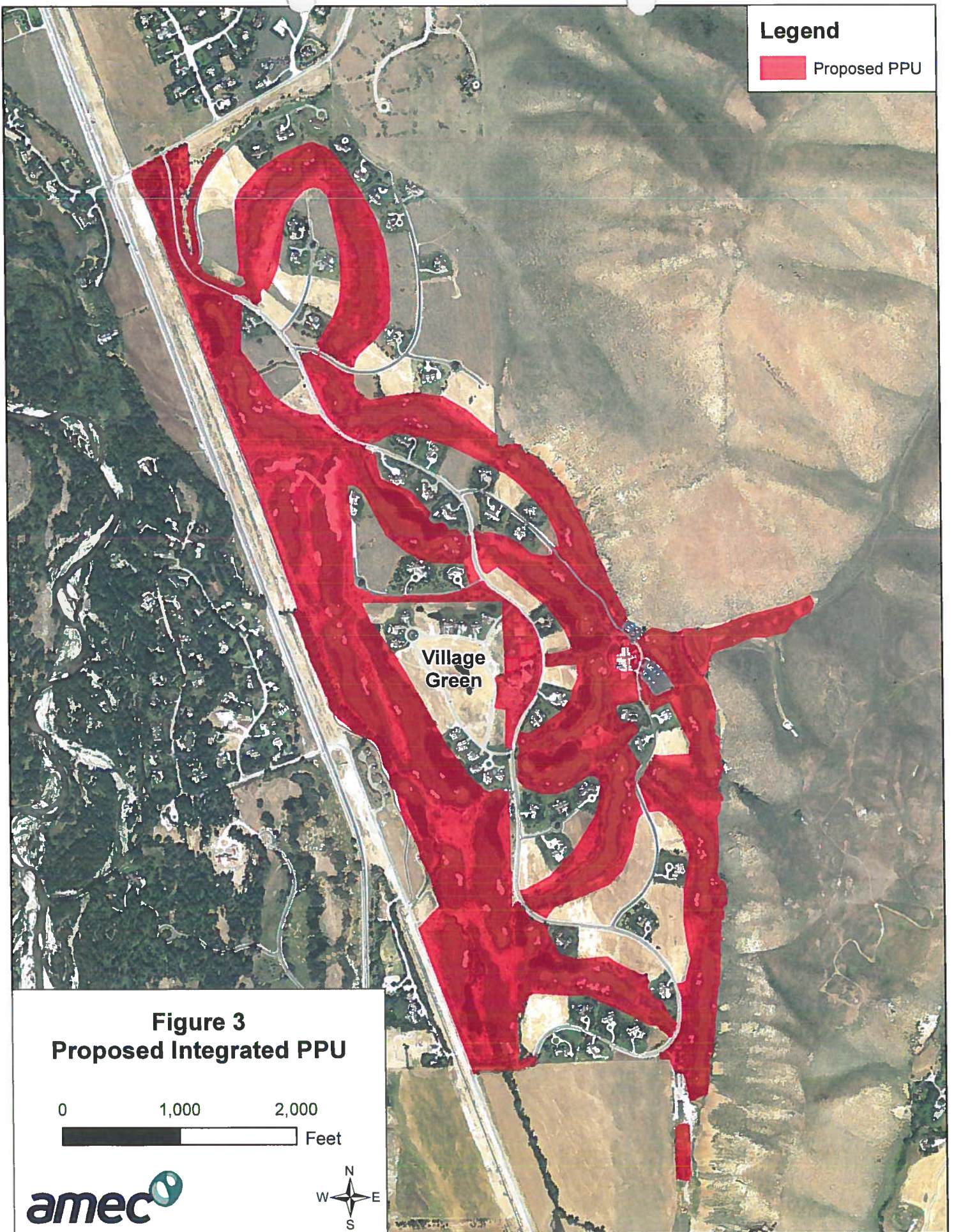
	Native
	Rough

Figure 2
Dry Up Areas

0 500 1,000
 Feet



Village Green





Appendix B

Groundwater Modeling

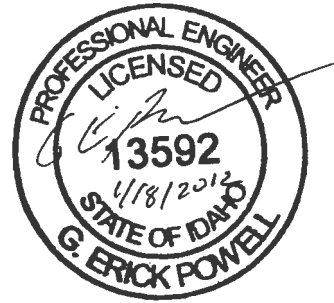
Project No. 665-02-2010

Big Wood Aquifer and River Simulated Response to Proposed Valley Club Recharge and Extraction Using a Big Wood River Aquifer Groundwater Model

Prepared for:

Valley Club, Inc.
P.O. Box 252
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January 18, 2012



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Big Wood Aquifer and River Simulated Response to Proposed Valley Club Recharge and Extraction Using a Big Wood River Aquifer Groundwater Model

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A. Introduction

Valley Club, Inc. is proposing to change the nature of use of 12.8 acft of Big Wood River water from irrigation to recharge. Recharge will occur during the beginning portion of the irrigation season and is anticipated to be completely finished by July 31st. A water right transfer has been prepared and filed with the Idaho Department of Water Resources (IDWR) by the Valley Club to change the water right nature of use from irrigation to recharge. Recharge volume will mitigate for groundwater pumping of 12.8 acft of consumptive use.

In order for IDWR to fully evaluate the pumping and recharge impacts to Big Wood Aquifer levels and Big Wood River reaches, Brockway Engineering developed a MODFLOW groundwater model of the Big Wood River Aquifer (Brockway Engineering, 2009). This model is currently the only adequate tool available to evaluate water right transfers and permit applications in the Big Wood Valley. The model was reviewed by a technical review committee, including personnel at IDWR and IWRRI. This report contains the simulated results of the proposed project.

The simulated recharge schedule proposes recharge occurring from April 15th through July 31st (107 days) to ensure that the recharge volume (12.8 acft) will be recharged. The extraction schedule extends throughout the irrigation season and is based on the precipitation deficit for irrigated turf in Hailey published by Allen and Robison (2009). Table 1 contains the simulated seasonal recharge and extraction of 12.8 acft. Figure 1 presents the recharge and extraction monthly volumes in graph form. Figure 2 provides a vicinity overview of the project, including the recharge and extraction location.

Table 1: Monthly recharge and extraction volumes for model simulation. Trend based on published precipitation deficit values for irrigated turf in Hailey, Idaho (Allen and Robison, 2009).

	April	May	June	July	August	September	October	Total
Days	15	31	30	31	31	30	31	199
Prec. Deficit^b (mm/day^a)	0.14	2.12	4.08	5.51	4.50	2.76	0.35	597 ^a
Recharge (acft/month^a)	1.54	3.58	4.61	3.07	0	0	0	12.8 ^a
Extraction (acft/month^a)	0.32	1.46	2.58	3.49	2.89	1.67	0.38	12.8 ^a

^a Units for values are shown under the row header, except for the total column. The time duration for the total is over the entire irrigation season.

^b Published Precipitation Deficit values for irrigated turf in Hailey by Allen and Robison (2009).

B. Results

IDWR previously reviewed the groundwater model (Brockway Engineering, 2009) used to evaluate the impacts to the Big Wood River Aquifer and River and the model has been used previously for transfer/permit evaluations. The baseline model results (no simulated project recharge or extraction) were compared to the results from the proposed project. Changes to the aquifer and Big Wood River were noted to provide IDWR necessary information to evaluate and process the applications.

Figure 3 indicates the location of the model nodes used to evaluate the impact from the proposed project. Points A, B, C, D, and E are shown with locations ranging from north of the proposed project, within the Heatherlands development, to south of the proposed project, at the mouth of Indian Creek. All five nodes were used to evaluate the changes of groundwater surface elevations from the baseline model data and the Valley Club, Inc. scenarios.

Figures 4 through 8 show the groundwater elevations of the baseline data and the model results. The largest decrease in water surface elevation occurs at point B, located immediately north of the extraction near Ohio Gulch road, of 0.04 ft. This decrease in water surface elevation is less than the annual variation in water surface elevations at point B of 1.2 ft. The proposed project will likely result in undetectable impacts at surrounding wells.

Six Big Wood River reaches were evaluated to quantify the change in the river/aquifer exchange based on the proposed scenarios. Figure 9 identifies the location of the river reaches. Figure 10 shows annual changes in river reach gain/loss based on the original and proposed project in acre-feet. The zero line in Figure 10 represents the baseline model data. Changes to the Big Wood River reaches are shown with annual river reach loss or gain (positive = river gain; negative = river loss).

Results show an annual loss of less than 1 ac-ft/year (-0.5 ac-ft/year) in Reach 1 (Northern Boundary to Starweather Bridge); Reach 2 (Starweather Bridge to Deer Creek Bridge) showed a river annual gain of 2.8 ac-ft/year; all remaining river reaches had either minimal (less than 0.5 ac-ft/year) or zero river reach gain.

C. MOD-PATH

The aquifer flow vectors near the Valley Club and the proposed recharge location are shown in Figure 11. The plotted flow vector arrow size is a function of the vector velocity, with larger arrows indicating a larger velocity. The aquifer velocity is highest near the Big Wood River and is the slowest at the valley edges, near the mountains, as would be expected. The aquifer flows down gradient, parallel to the Big Wood valley. In Figure 11, the flow vectors at the point of proposed recharge are parallel to Highway 75. Notice that flow vectors do not indicate aquifer flow from the valley edges towards the Big Wood River or the domestic wells located west of the proposed extraction well.

Aquifer underflow at this point is approximately 10,400 ac-ft/year as calculated from the model results. The month with the most aquifer underflow per day was determined to be August with 28.8 ac-ft/day while March was determined to be the month with the least amount of aquifer underflow per day at 28.1 ac-ft/day. The underflow at the northern boundary of the model was set to be 3,700 acft/year and seasonally distributed based on the USGS observation well south of Bellevue, Idaho. The average daily underflow (ac-ft/day) and flow (cfs) increases from the northern boundary to the Valley Club. The increase of underflow can be attributed to the surface water seepage from the Big Wood River, irrigation canals, precipitation recharge, and irrigation infiltration. These sources provide sufficient water to account for the increase of underflow between the northern boundary and the Valley Club. The proposed recharge volume is 12.8 ac-ft/year or about 0.12% of the total volume of annual aquifer underflow.

The flow paths and particle velocity of the proposed recharge were evaluated using MODPATH. MODPATH is a post-processing package added to MODFLOW to compute three-dimensional flowpaths using the MODFLOW output from steady-state or transient groundwater flow simulations. MODPATH computes the particle path by tracking specific particles from one cell to the next until the particle reaches a boundary, an internal sink/source, or other termination criteria. For our simulations, the termination criterion was a duration of 365 days. MODPATH allows for forward or backward particle tracking analyses to be performed for transient simulations.

MODPATH was evaluated using the MODFLOW transient recharge simulation results of the Big Wood Aquifer Groundwater Model. Individual recharge particles were forward tracked from the proposed recharge location over a period of 1-year. Recharge particles traveled an average distance of 2480 ft over 365 days, resulting in an average particle flow velocity of 6.8 ft/day. The boundary of the recharge particle flow path can be seen in Figure 12. The flow path and velocities follow the flow vectors presented in Figure 11, as would be expected.

Concern has been raised by IDWR during the evaluation of similar recharge projects of potential contamination of nearby wells, including domestic wells. According to the IDWR well location shapefile, there are no wells located within the proposed recharge flow path (Figure 12). A 500-ft buffer was placed around each nearby well. Only one nearby well (Well ID no. 340792) is within 500-ft (well located 458 ft from the flow path boundary) of the simulated recharge flow path. MODPATH was used to backwards track particles that terminate at the location of Well ID no. 340792; the capture zone of this well was evaluated for a period of 1 year (Figure 12). The capture zone extends parallel to the recharge flow path, and according to the MODPATH simulation the well capture zone and the recharge flow path do not intersect.

The maximum recharge rate proposed by the recharge project is 0.11 cfs (50 gpm) and the average rate is 0.060 cfs (27 gpm). Comparisons were made to the seepage from the Hiawatha Canal. The Hiawatha Canal location is also shown in Figure 12. Allen Merritt, IDWR Southern Region, estimated the seepage from the Hiawatha Canal by the Worstell Method. According to Merritt, the cumulative loss from the Hiawatha Canal headgate at the Big Wood River downstream to the location of the domestic well (Well ID no. 340792) is 4.71 cfs over a distance of about 3800 ft. This seepage rate over an irrigation season duration of 150 days would accumulate to 1399 acre feet being recharged to the aquifer. By comparison, the proposed recharge from the infiltration basins for the season is proposed to be 12.8 acre feet or 0.9% of the recharge from the Hiawatha canal. The proposed average recharge rate of 0.060 cfs is 1.3% of the seepage from the Hiawatha Canal downstream to the location of the domestic well. The cumulative loss from the Hiawatha Canal headgate on the Big Wood River to the southern boundary of the Valley Club is 5.02 cfs over a distance of 9175 ft. The proposed average recharge rate is also 1.2% of the seepage from the Hiawatha Canal to the southern boundary of the Valley Club. The capture zone of the domestic well follows the Hiawatha Canal, which indicates that any future contamination that may occur in the domestic well would most likely be due to seepage from the Hiawatha Canal and not the proposed recharge project. To the extent seepage occurs from the Hiawatha Canal in the vicinity of any of the wells of concern, this would tend to create a positive ground water gradient eastward, toward the recharge infiltration galleries. Seepage from the Hiawatha Canal would create a hydrologic barrier to the transport of recharge water toward the domestic well(s) since the recharge rate from the Hiawatha seepage is much greater than the infiltration from the basins, Figure 12.

D. Summary

1. Valley Club, Inc proposes to recharge 12.8 acft of water between 4/15 and 7/31. Recharge water will serve as mitigation for 12.8 acft of extraction.
2. Of the five locations that simulated the impact of the proposed project, the greatest impact was seen at Point B with a maximum season impact of 0.04 ft. The simulated seasonal fluctuation at this site is 1.2 ft. The proposed extraction will likely result in undetectable impacts at surrounding wells.
3. Model results indicated minimum impacts to Big Wood River, as shown.
4. MOD-PATH simulations showed recharge pathways and nearby domestic well capture zones. MODPATH results indicate that recharged water will not interfere with nearby wells within 365 days.

E. References

Brockway Engineering, 2009. Development of a Groundwater Flow Model for the Big Wood River Aquifer: East Fork to Bellevue. Submitted to IDWR – Feb. 3. 2009. Brockway Engineering, PLLC. Twin Falls, Idaho.

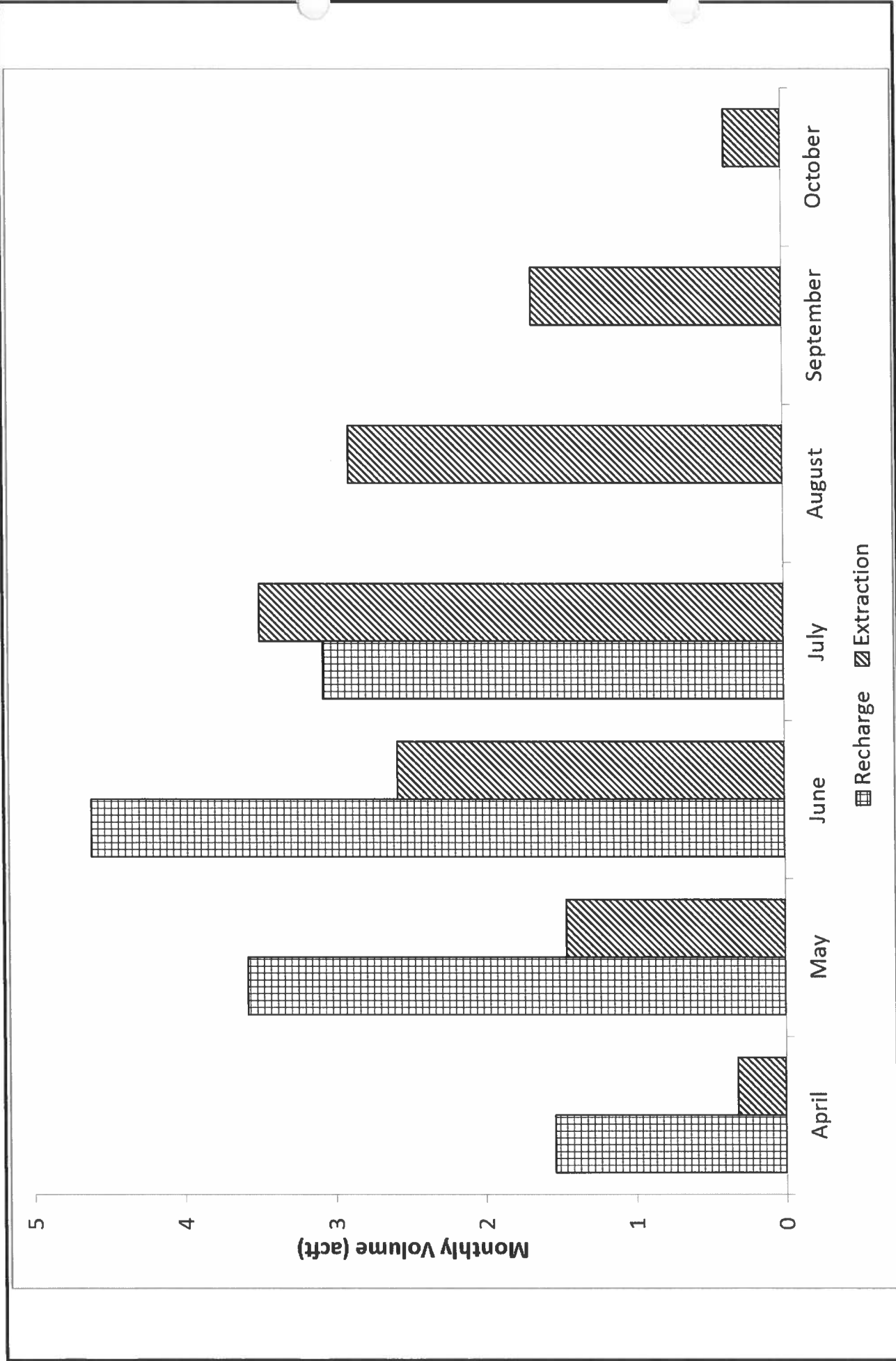


FIGURE 1: PROPOSED VALLEY CLUB, INC RECHARGE AND EXTRACTION MONTHLY VOLUMES
VALLEY CLUB, INC GROUNDWATER EVALUATION
BIG WOOD VALLEY AQUIFER

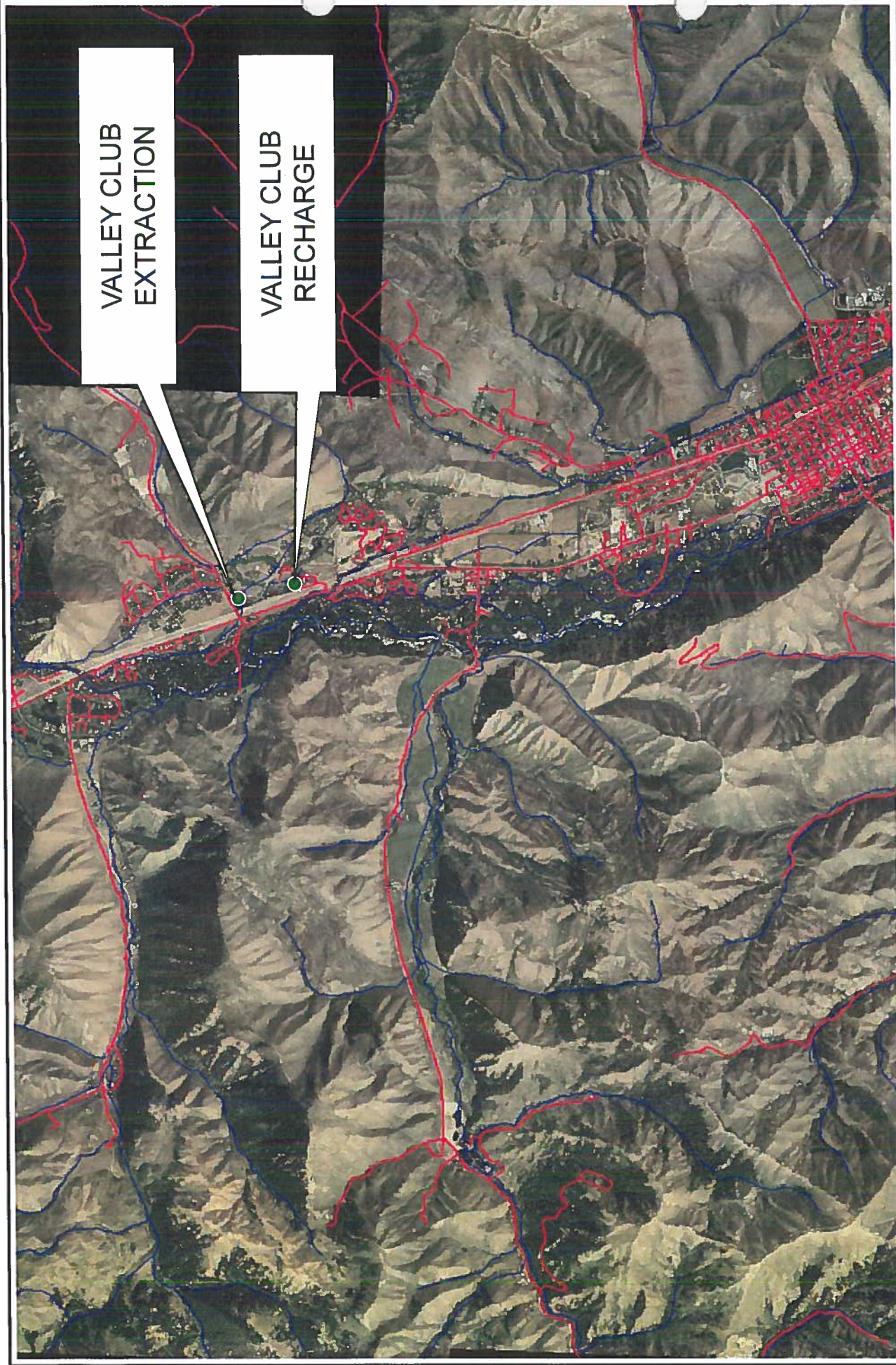


FIGURE 2: VICINITY MAP OF BIG WOOD RIVER VALLEY
NORTH OF HAILEY, BLAINE COUNTY, IDAHO
NAIP 2006 AERIAL PHOTO

LEGEND
— BLAINE COUNTY ROADS
— WATERWAYS



FIGURE 3: MODFLOW NODES USED FOR AQUIFER EVALUATION
VALLEY CLUB, INC RECHARGE PROJECT
NAIP 2006 AERIAL PHOTO

LEGEND
○ MODFLOW Obs Nodes
— MODFLOW Boundary

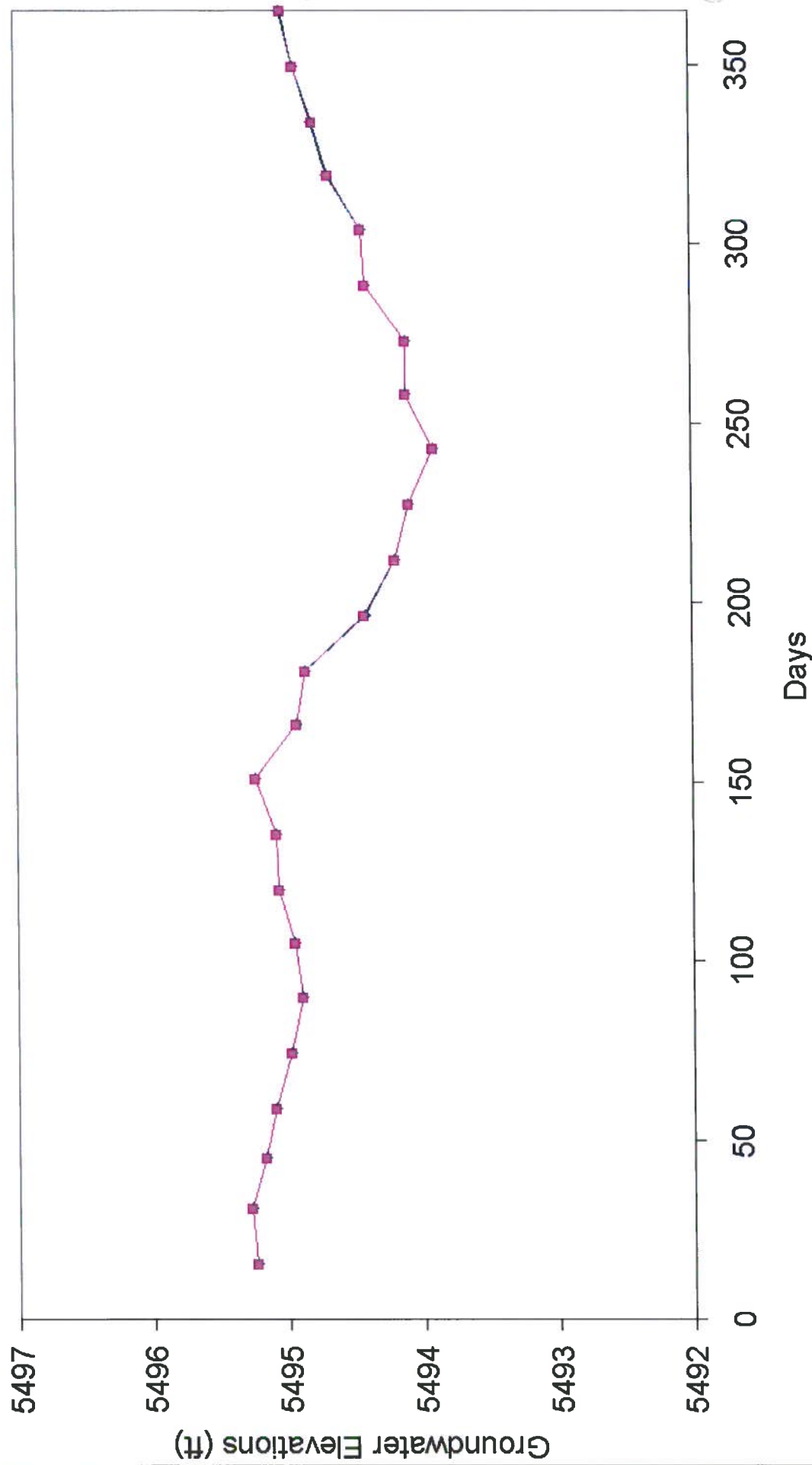


FIGURE 4: SIMULATED GROUNDWATER ELEVATIONS AT POINT A: HEATHERLANDS
VALLEY CLUB, INC RECHARGE PROPOSAL
BIG WOOD VALLEY AQUIFER GROUNDWATER MODEL

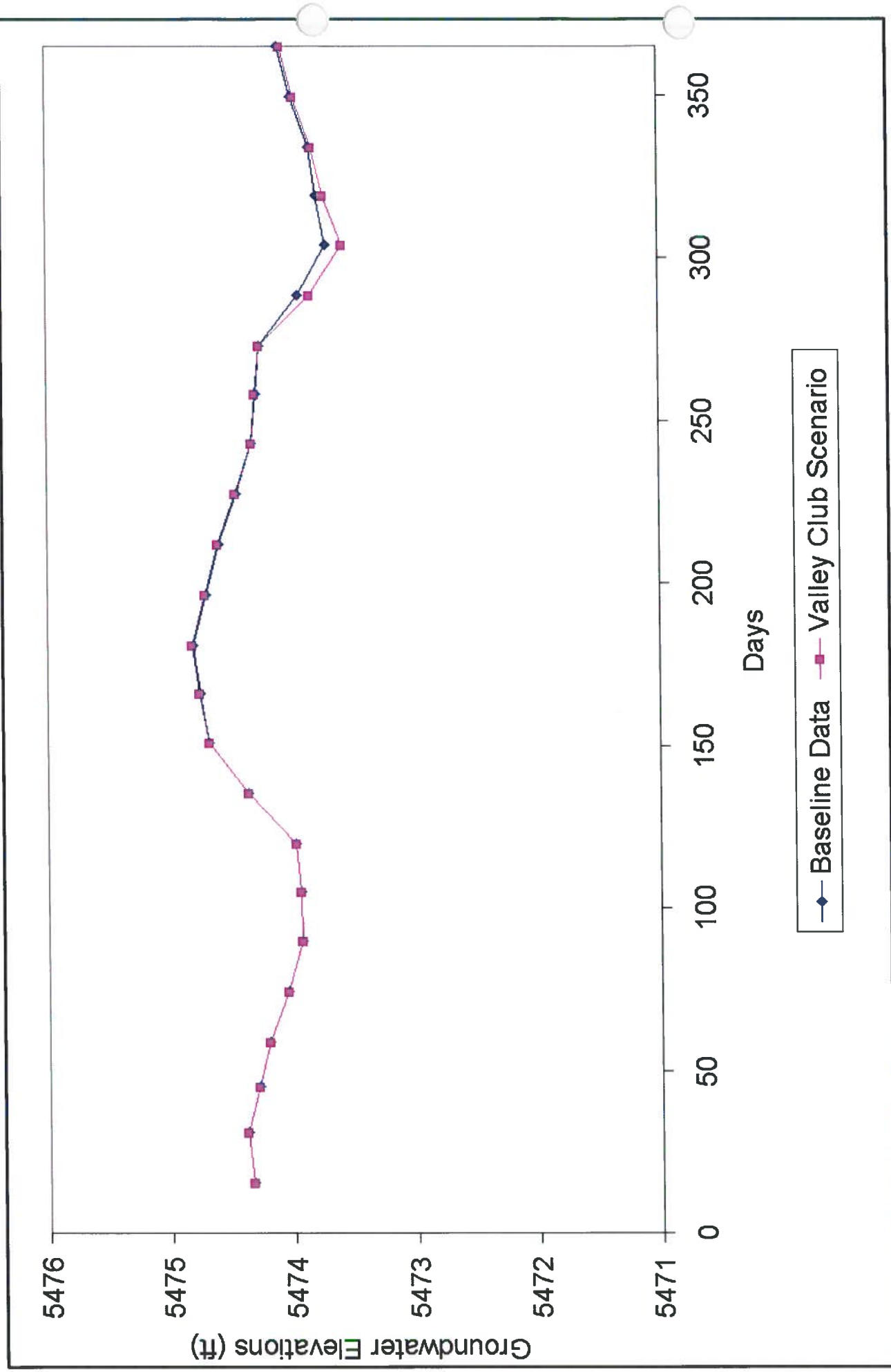


FIGURE 5: SIMULATED GROUNDWATER ELEVATIONS AT POINT B: NORTH OF VALLEY CLUB
VALLEY CLUB, INC RECHARGE PROPOSAL
BIG WOOD VALLEY AQUIFER GROUNDWATER MODEL

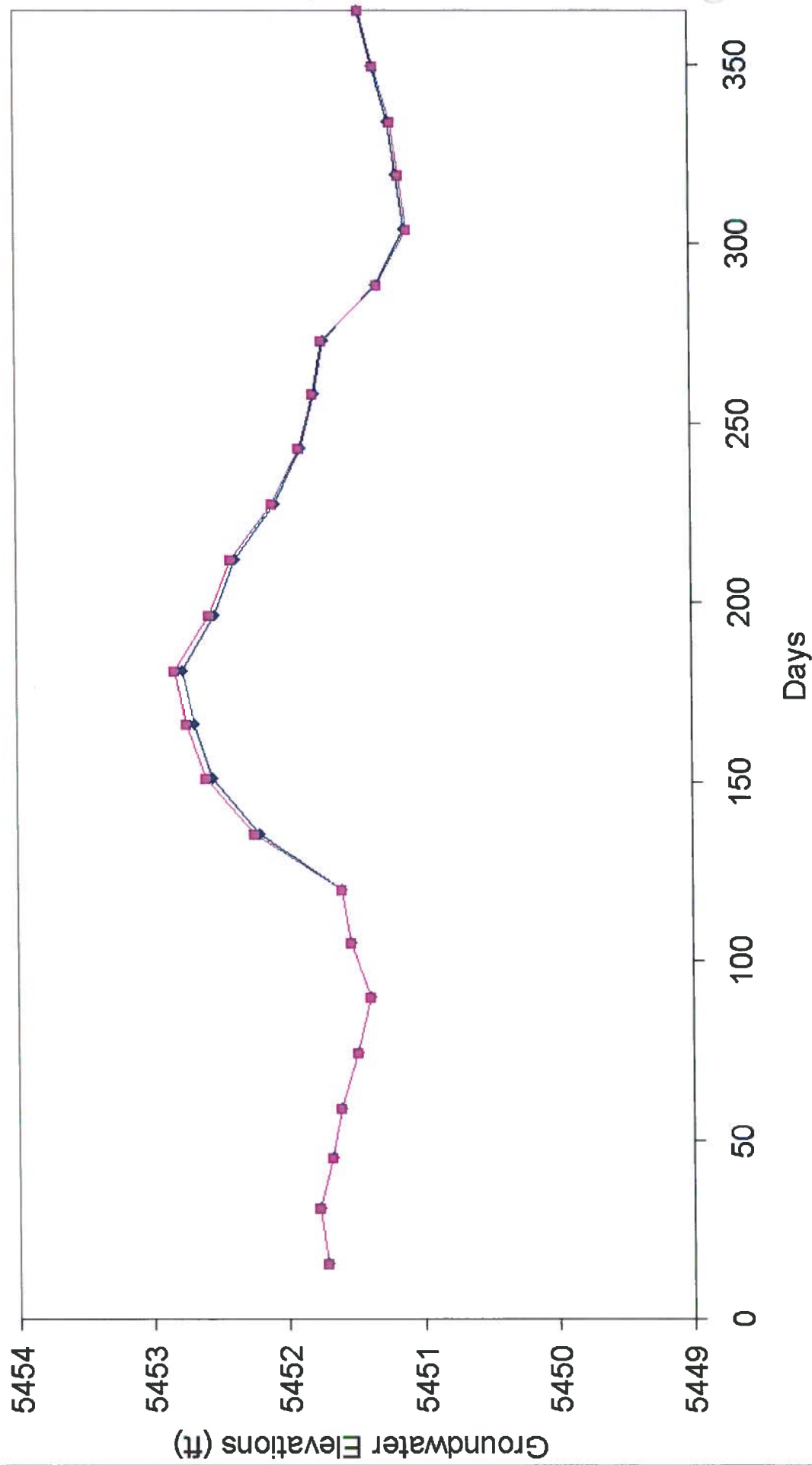


FIGURE 6: SIMULATED GROUNDWATER ELEVATIONS AT POINT C: SOUTH OF VALLEY CLUB
VALLEY CLUB, INC RECHARGE PROPOSAL
BIG WOOD VALLEY AQUIFER GROUNDWATER MODEL

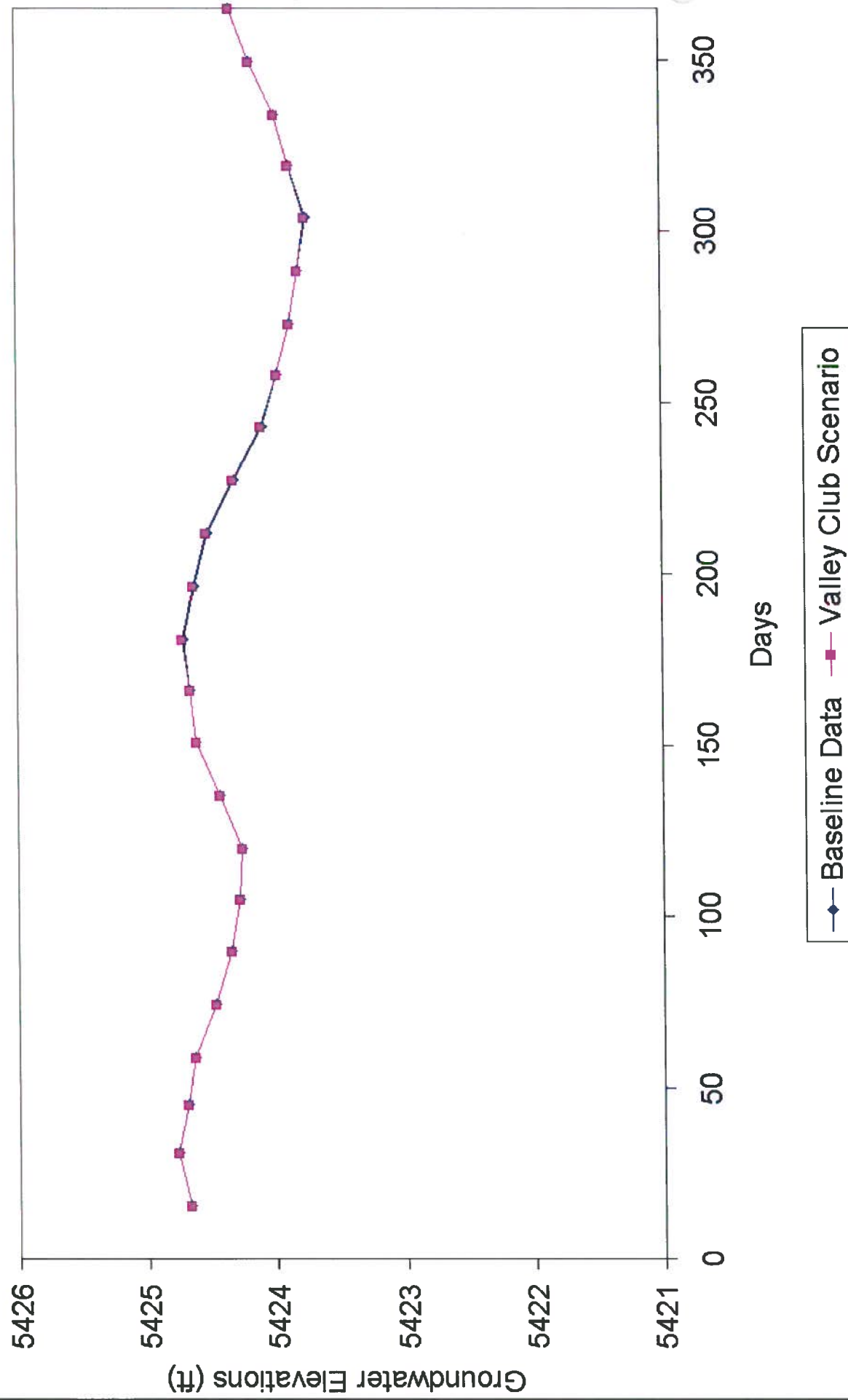


FIGURE 7: SIMULATED GROUNDWATER ELEVATIONS AT POINT D: NORTH OF KSKI PROPERTY
VALLEY CLUB, INC RECHARGE PROPOSAL
BIG WOOD VALLEY AQUIFER GROUNDWATER MODEL

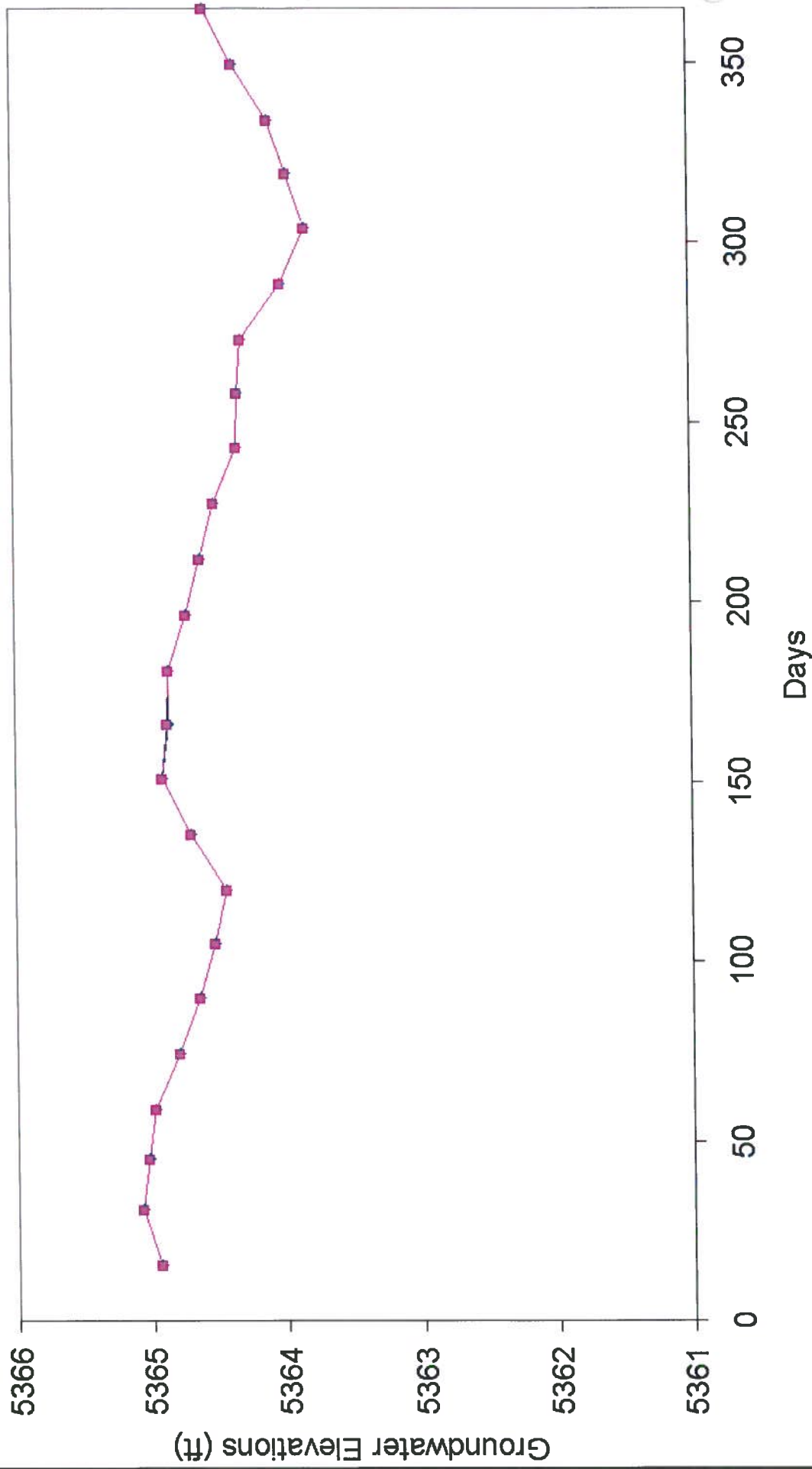
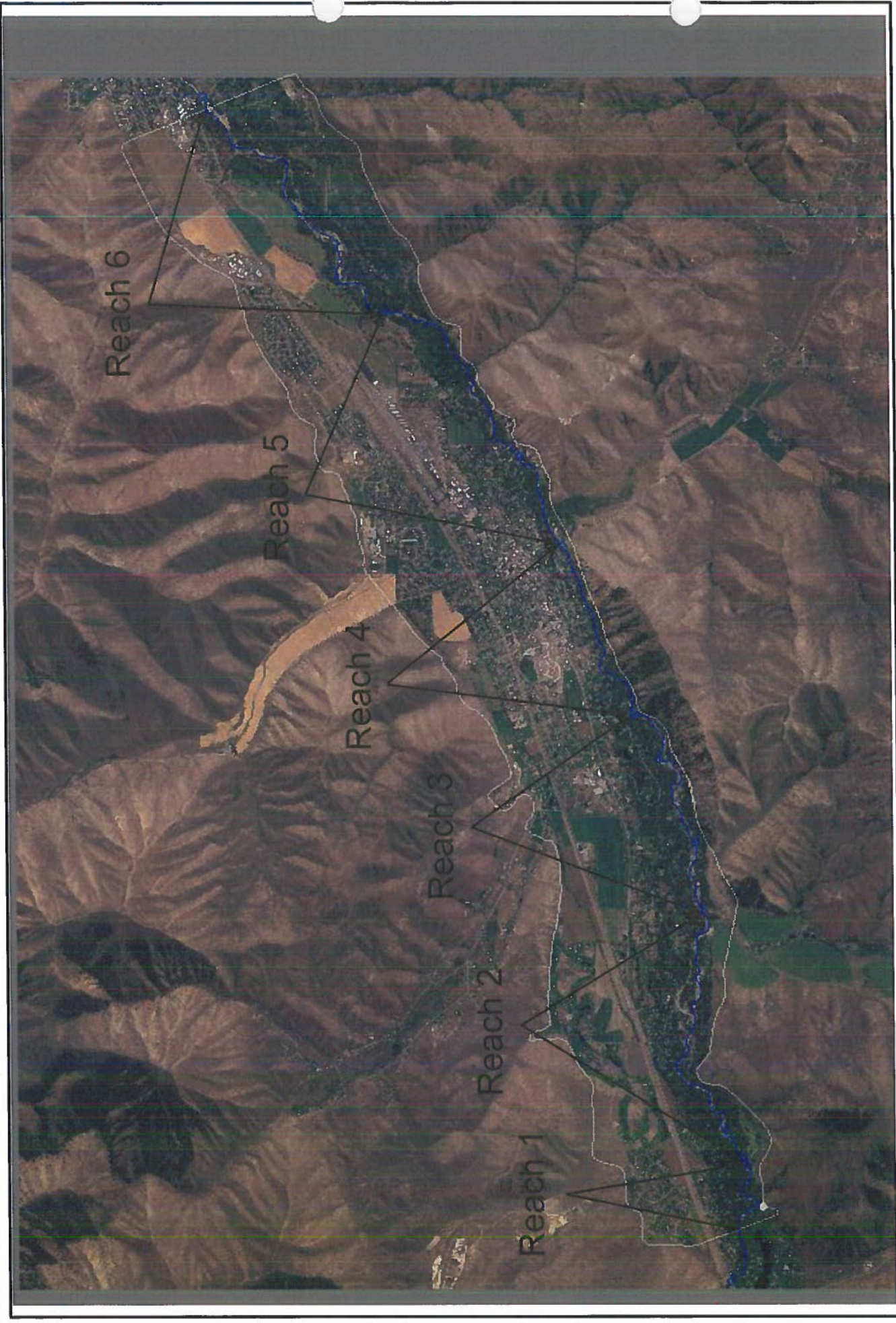


FIGURE 8: SIMULATED GROUNDWATER ELEVATIONS AT POINT E: INDIAN CREEK
VALLEY CLUB, INC RECHARGE PROPOSAL
BIG WOOD VALLEY AQUIFER GROUNDWATER MODEL



LEGEND
— MODFLOW Boundary
— Big Wood River
→ River Reach

FIGURE 9: BIG WOOD RIVER REACHES
VALLEY CLUB, INC RECHARGE PROPOSAL
NAIP 2006 AERIAL PHOTO



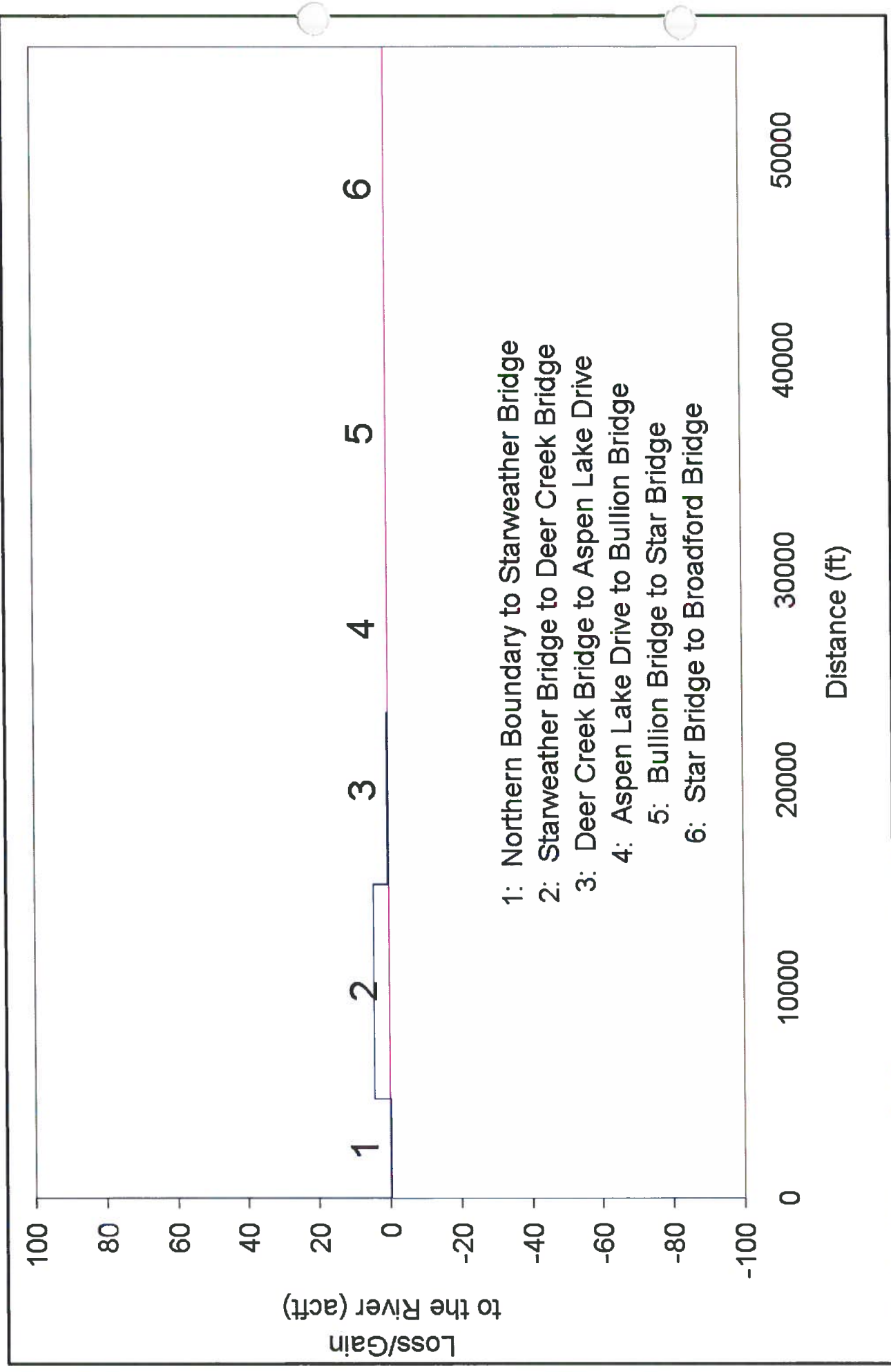
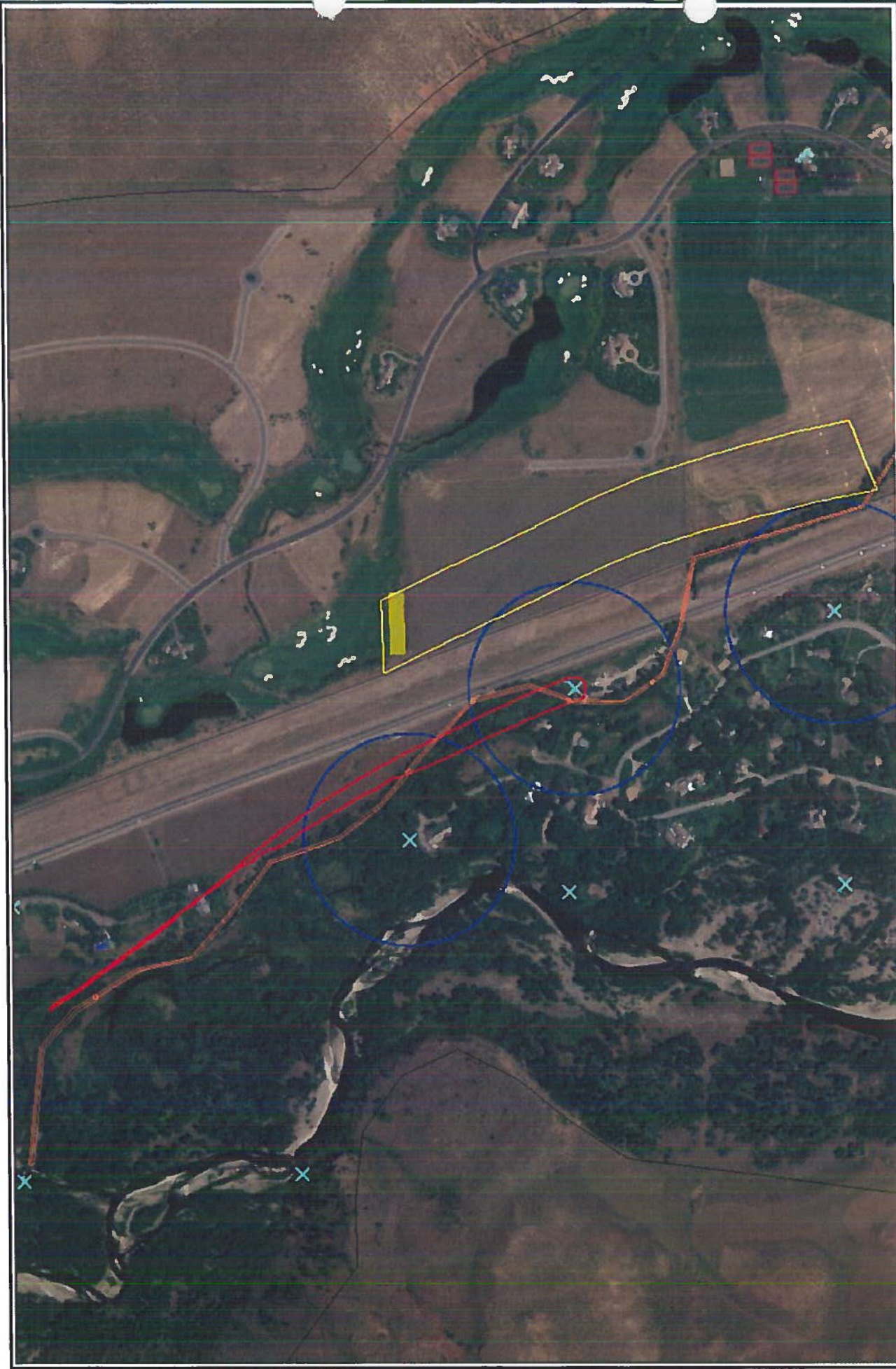


FIGURE 10: SIMULATED ANNUAL BIG WOOD RIVER REACH GAIN/LOSS
VALLEY CLUB, INC RECHARGE PROPOSAL
BIG WOOD VALLEY AQUIFER GROUNDWATER MODEL



LEGEND
MODEL DOMAIN
VC WELLS

FIGURE 11: BIG WOOD AQUIFER FLOW VECTORS
NEAR VALLEY CLUB, INC PROPOSED RECHARGE PROJECT
LARGER FLOW VECTORS INDICATE HIGHER VELOCITIES
CONCENTRATED NEAR THE BIG WOOD RIVER



LEGEND

- RECHARGE SITE
- RECHARGE FLOW
- WELLS
- 500' WELL RADIUS
- CAPTURE ZONE
- HIAWATHA CANAL

FIGURE 12: BIG WOOD AQUIFER CAPTURE ZONES FOR 1 YEAR
NEAR VALLEY CLUB, INC PROPOSED RECHARGE PROJECT
 CAPTURE ZONE FOR DOMESTIC WELL SHOWN IN RED; RECHARGE FLOW PATH SHOWN IN YELLOW
 ONE WELL LOCATED WITHIN 500 FEET OF RECHARGE FLOW PATH