

MEMORANDUM

TO: File 37-289, City of Ketchum (formerly Weyyakin)
FROM: Douglas Jones
DATE: 3/28/2011
RE: Review of Amended Claim and recent reports

Claim 37-289 was amended in 1997 to add Recreation and Aesthetic uses under the provisions of the accomplished transfer statute 42-1425. The amended claim identified 7 cfs each for Irr., Rec, & Aes, for a total of 7 cfs.

The original Director's Report recommendation was made for Irrigation use only, on 55.5 acres, but for the full original Frost Decree award of 7.0 cfs. No corroborating information was available at that time relative to the extent that the Recreation and Aesthetic uses were in place by 1987. Quantification of the features and water use requirements were also lacking.

Objection was filed by City of Ketchum predecessor Weyyakin Ranch Property Owners Assn, Inc. and the objections are continued by the City. The objection asserts that the Recreation and Aesthetic uses should be recognized and in the 3 claimed Quarter-Quarter tracts.

A follow-up report was recently prepared by Brockway Engineering that addresses many of the issues that the amended claim and settlement discussions brought out. These issues involve quantification of the size and location of ponds and ditches on the property, water requirements of the facilities and conveyance losses. However, the Brockway Engineering report did not address the accomplished change in nature of use implications on flow rates for the various uses.

The Brockway report continued to propose merely ADDING the Recreation and Aesthetic uses to the Irrigation use. As the term Change in Nature of Use implies one use needs to be lessened to provide some other use. As indicated in the claim the Recreation & Aesthetic use began in the 1980s and this timeframe is after the mandatory permit requirement date of May, 1971. The only way to appropriate water for new uses is to convert the nature of use of an existing right to the new use.

Brockway's report indicates that the pond system holds 5.2 acre-feet of water without including Pond 31. Pond 31 is said to be a settling pond on the distribution system before any excess flows are returned to the Big Wood River. Excess flows entering the pond fluctuate depending on system operation and will not be counted toward Recreation and Aesthetic use in this analysis. Supporting information provided indicates that the ponds require 1.81 cfs to refresh the water regularly, 1.13 cfs is required for conveyance loss through the on project ditches and ponds, and 0.04 cfs is lost to evaporation. However, the ponds were constructed on historically irrigated land and the footprints of the ponds have been included in the irrigated acreage – no additional evaporation needs to be accounted for. It is proposed that a flow of 2.6 cfs for Recreation and Aesthetic should allocated; this flow would amply provide the refresh flow requirement and yet

be able provide for a 24 hour-rule for the 5.2 af developed volume. Additional conveyance requirement flows are made up through the irrigation allocation.

Conveyance loss for ditch flows from the diversion headgate to the project boundary amount to 2.2 cfs. On the project property the irrigation flows are routed through the recreation and aesthetic system to a main pond wherefrom the centralized irrigation pump(s) deliver water through pipes to the various sprinkler irrigation systems (residential and pasture). Conveyance losses on the project area are already partially accounted for in the recommended Recreation and Aesthetic use flow rates. The total conveyance loss for all purposes would be approximately 3.30 cfs. The remaining flow rate and unused aesthetic water would provide for an irrigation rate per acre of 0.02 cfs, or a total of 1.1 cfs on 55.5 acres.

The attached draft recommendation incorporates the analysis and conclusions.

RECEIVED FEB 12 1997

FEB 12 1997

Department of Water Resources
Southern Region

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE STATE OF IDAHO,
IN AND FOR THE COUNTY OF TWIN FALLS

IN RE THE GENERAL ADJUDICATION
OF RIGHTS TO THE USE OF WATER FROM
THE SNAKE RIVER BASIN WATER SYSTEM.

CIVIL CASE NUMBER: 39576

Ident. Number: A37-00289
Date Received: 11/16/1988
Receipt No: S003857
Received By: _____

AMENDED

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

AMENDED

1. Name: WEYYAKIN RANCH PROP OWNERS' ASSN INC 208-726-7444
Address: ATTN: BRAD SCOTT
PO BOX 728
KETCHUM ID 83340

2. Date of Priority: MAY 1, 1883

3. Source: TRAIL CREEK Trib. to: BIG WOOD RIVER

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4 of	Lot	County
04N	18E	7		SW	SE		BLAINE

5. Description of diverting works:
DIVERSION DAM TO EARTHEN DITCH TO PROPERTY.

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or)	A.F.A.
IRRIGATION	04/01	11/01	7.000		
AESTHETIC/RECREATION	04/01	11/01	7.000		

7. Total Quantity Appropriated is:
7.000 C.F.S. (and/or) A.F.A.

8. Total consumptive use is 164.8 Acre Feet Per Annum.

9. Non-irrigation uses:
RECREATION/AESTHETICS

10. Place of Use:

Township	Range	Section	1/4 of	1/4 of	Lot	Use	Acres
04N	18E	19	NW	NE		IRR	0.9
			SW	NE	A/R	IRR	30.4
			SE	NE	A/R	IRR	6.2

10. Place of Use: Continued

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
04N	18E	19	SE	NW		IRR	0.3
			NE	SE		IRR	14.5
			NW	SE	A/R	IRR	13.6
Section Acres							65.9
Total Acres							65.9

11. Place of use in counties: BLAINE

12. Do you own the property listed above as place of use? YES

13. Other Water Rights Used:
NONE

14. Remarks:

IRRIGATED AREA INCLUDES LANDSCAPING, PASTURE AND COMMON AREA IN THE WEYYAKIN SUBD. AESTHETIC PURPOSES INCLUDE MULTIPLE PONDS THAT ARE USED IN PART FOR IRRIGATION STORAGE. SYSTEM HAS BEEN IN PLACE SINCE 1981, AND CLAIM FOR AESTHETIC/RECREATION USE IS MADE PURSUANT TO I.C.

42-1425

15. Basis of Claim: DECREED

Case Number:

Court :

Decree date: / /

S. C. FROST, ET. AL.
Decree Plaintiff

ALTURAS WATER COMPANY, ET. AL
vs Decree Defendant

16. Signature(s)

(a.) By signing below, I/We acknowledge that I/We have received, read and understand the form entitled "How you will receive notice in the Snake River Basin Adjudication." (b.) I/We do _____ do not _____ wish to receive and pay a small annual fee for monthly copies of the docket sheet.

Number of attachments: _____

For Organizations:

I do solemnly swear or affirm that I am MANAGER of
WEYYAKIN RANCH PROPERTY OWNERS' Title
ASSN INC, that I have signed the foregoing
Organization
document in the space below as MANAGER of
WEYYAKIN RANCH PROPERTY OWNERS' Title
ASSN INC and that the statements contained in the
Organization
foregoing document are true and correct. Bradford F. Scott
Signature of Authorized Agent
MANAGER
WEYYAKIN RANCH PROPERTY OWNERS' ASSN INC
Title and Organization
Feb. 8, 1997
Date

State of Idaho)
County of Blaine) SS.

Subscribed and sworn (or affirmed) before me this 10th day
of February 19 97

John M. Maloney
Notary Public

Seal

Residing at Hailey
My Commission Expires 8/4/99

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE STATE OF IDAHO,
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10. Place of Use:

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04N	18E	19	NW	NE		IRR	0.9

10. Place of Use: Continued

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
04N	18E	19	SW	NE		IRR	30.4
			SW	NE		REC	
			SW	NE		AES	
			SE	NE		IRR	6.2
			SE	NE		REC	
			SE	NE		AES	
			SE	NW		IRR	0.3
			NE	SE		IRR	14.5
			NW	SE		IRR	13.6
			NW	SE		REC	
			NW	SE		AES	
						Section Acres	65.9
						Total Acres	65.9

11. Place of use in counties: BLAINE

12. Do you own the property listed above as place of use? YES

13. Other Water Rights Used:
NONE

14. Remarks:
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2/18/1997, DJ: CLAIM AMENDED TO RECORD AESTHETIC AND RECREATION USES PURSUANT I.C. 42-1425

15. Basis of Claim: DECREED

Case Number:

Court :

Decree date: / /

S. C. FROST, ET. AL.
Decree Plaintiff

ALTURAS WATER COMPANY, ET. AL
vs Decree Defendant

FEB 12 1997

Department of Water Resources
Boise, Idaho

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE STATE OF IDAHO,
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Ident. Number: A37-00289
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Receipt No: S003857
Received By: _____

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AMENDED

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Address: ATTN: BRAD SCOTT
PO BOX 728
KETCHUM ID 83340

2. Date of Priority: MAY 1, 1883

3. Source: TRAIL CREEK Trib. to: BIG WOOD RIVER

4. Point of Diversion:

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AESTHETIC/RECREATION	04/01	11/01	7.000		

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7.000 C.F.S. (and/or) A.F.A.

8. Total consumptive use is 164.8 Acre Feet Per Annum.

9. Non-irrigation uses:
RECREATION/AESTHETICS

10. Place of Use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
04N	18E	19	NW	NE		IRR	0.9
			SW	NE	A/R	IRR	30.4
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COPY

10. Place of Use: Continued

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
04N	18E	19	SE	NW		IRR	0.3
			NE	SE		IRR	14.5
			NW	SE	A/R	IRR	13.6
						Section Acres	65.9
						Total Acres	65.9

11. Place of use in counties: BLAINE

12. Do you own the property listed above as place of use? YES

13. Other Water Rights Used:
NONE

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Case Number:

Court :

Decree date: / /

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Decree Plaintiff

ALTURAS WATER COMPANY, ET. AL
vs Decree Defendant

16. Signature(s)

(a.) By signing below, I/We acknowledge that I/We have received, read and understand the form entitled "How you will receive notice in the Snake River Basin Adjudication." (b.) I/We do _____ do not _____ wish to receive and pay a small annual fee for monthly copies of the docket sheet.

Number of attachments: _____

COPY

For Organizations:

I do solemnly swear or affirm that I am MANAGER of
WEYYAKIN RANCH PROPERTY OWNERS' Title
ASSN INC, that I have signed the foregoing

Organization
document in the space below as MANAGER of
WEYYAKIN RANCH PROPERTY OWNERS' Title
ASSN INC and that the statements contained in the

Organization
foregoing document are true and correct. Bradford L. Scott
Signature of Authorized Agent
MANAGER
WEYYAKIN RANCH PROPERTY OWNERS' ASSN INC
Title and Organization

Feb. 8, 1997

Date

State of Idaho)
County of Blaine) SS.

Subscribed and sworn (or affirmed) before me this 10th day
of February 19 97

John M. Malow
Notary Public

Seal

Residing at Hailey

My Commission Expires 8/4/99

COPY

RECEIVED

FEB 14 1997

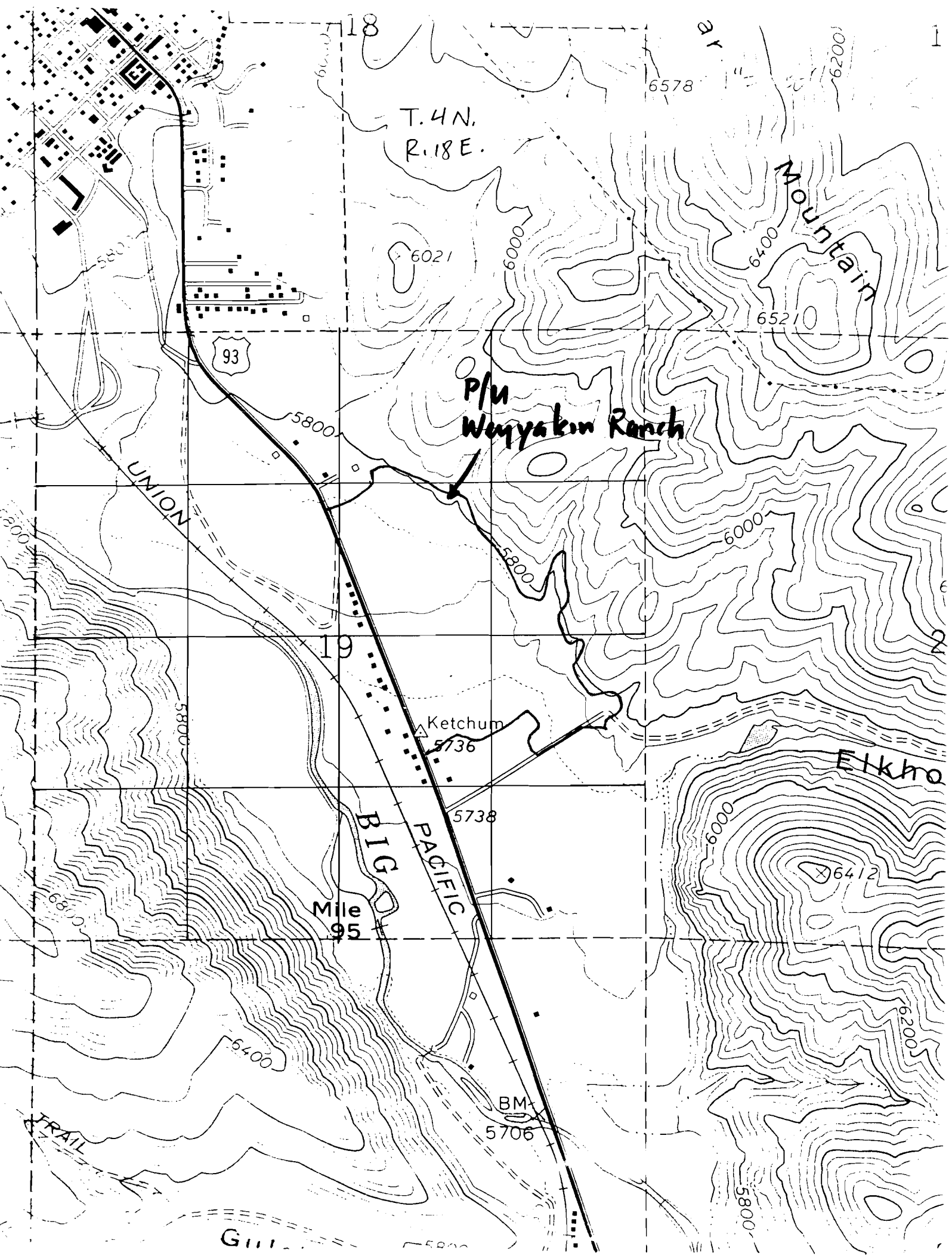
Department of Water Resources
Southern Region

Maps I got
from Brockway
Clement

P/U
Weyyakin Ranch

What is date of
photo?
How is water
distributed?
Which are ponds?
ditch? 2/13/97

Add'l data
requested from
Brockways
2/18/97
TV



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Received By: gce

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5. Description of diverting works:
DIVERSION DAM TO EARTHEN DITCH TO PROPERTY.

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or)	A.F.A.
IRRIGATION	04/01	11/01	7.000		

7. Total Quantity Appropriated is:
7.000 C.F.S. (and/or) A.F.A.

8. Total consumptive use is 363.0 Acre Feet Per Annum.

9. Non-irrigation uses:

10. Place of Use:

Township	Range	Section	1/4 of	1/4 of	Lot	Use	Acres
04N	18E	19	NE	NE		IRR	1.0
			NW	NE		IRR	34.0
			SW	NE		IRR	33.0

A37-00289

Page 1

Date: 11/16/88

RECORDED
FEB 22 1989

10. Place of Use: Continued

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
04N	18E	19	SE	NE		IRR	38.0
			NE	SE		IRR	21.0
			NW	SE		IRR	18.0
						Section Acres	145.0
						Total Acres	145.0

11. Place of use in counties: BLAINE

12. Do you own the property listed above as place of use? YES

13. Other Water Rights Used:
NONE

14. Remarks:
WEYYAKIN SUBD. COMMON AREA PROPERTY IS BEING CONVEYED TO CLAIMANT
IN NOV. 1988. THIS FILING IS ON THAT COMMON AREA.

15. Basis of Claim: DECREED
Case Number:
Court :
Decree date:

S. C. FROST, ET. AL.
Decree Plaintiff

vs

ALTURAS WATER COMPANY, ET. AL.
Decree Defendant

RECEIVED
FEB 22 1993

16. Signature(s)

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Number of attachments: _____

For Organizations:

I do solemnly swear or affirm that I am _____ of
_____, Title
_____, that I have signed the foregoing
Organization
document in the space below as _____ of
_____, Title
_____ and that the statements contained in the
Organization
foregoing document are true and correct.

Signature of Authorized Agent

Title and Organization

Date

State of Idaho)
County of _____) SS.
_____)

Subscribed and sworn (or affirmed) before me this _____ day
of _____ 19 _____

Notary Public

Seal

Residing at _____

My Commission Expires _____

RECORDED
FEB 22 1993

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE
STATE OF IDAHO, IN AND FOR THE COUNTY OF TWIN FALLS

IN RE THE GENERAL ADJUDICATION
OF RIGHTS TO THE USE OF WATER FROM
THE SNAKE RIVER BASIN WATER SYSTEM

CIVIL CASE NUMBER: 39576

Ident. Number

A37-00289

Date Received

Receipt Number

5003857 *SC*

NOTICE OF CLAIM
TO A
WATER RIGHT
ACQUIRED UNDER STATE LAW

RECEIVED

OCT 26 1988

Department of Water Resources
Southern Region Office

Please type or print clearly

1. Name of Claimant (s) Weyyakin Ranch Property Owners' Association,
Inc. Attn: Brad Scott Phone (208) 726-7444

Mailing Address P.O. Box 728, Ketchum, ID Zip 83340

2. Date of Priority (Only one (1) per claim) 05-01-1883

3. Source of water supply (a) TRAIL CREEK
which is tributary to (b) BIG WOOD RIVER

4. a. Location of existing point of diversion is: Township 04N Range 18E Section 7,
1/4 of SW 1/4 of SE 1/4, Govt. Lot, B.M., County of Blaine

Additional points of diversion if any: _____

b. If instream flow, beginning point of claimed instream flow is:

Township _____ Range _____ Section _____, _____ 1/4 of _____ 1/4 of _____ 1/4,

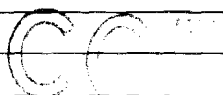
Govt. Lot _____ B.M., County of _____

ending point is: Township _____ Range _____ Section _____, _____ 1/4 of _____ 1/4 of

_____ 1/4, Govt. Lot _____ B.M., County of _____

5. Description of existing diversion works (Dams, Reservoirs, Ditches, Wells, Pumps, Pipelines, Headgates, Etc),
including the dates of any changes or enlargements in use, the dimensions of the diversion works as
constructed and as enlarged and the depth of each well.

DIVERSION DAM WITH EARTHEN DITCH TO PROPERTY.



MICROFILMED
FEB 22 1993

6 Water is claimed for the following purposes:

(both dates are inclusive)

(cfs)

(acre feet)

For IRRIGATION purposes from 04-01 to 11-01 amount 7 or

For purposes from to amount or

For purposes from to amount or

For purposes from to amount or

7. Total quantity claimed (a) 7 (cfs) and/or (b) (acre feet)

8. Total consumptive use claimed is 363 acre feet per annum.

9. Non-irrigation uses; describe fully (eg. Domestic: Give number of households served; Stockwater: Type and number of livestock Etc.) NONE

10. Description of place of use:

a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.

b. If water is used for other purposes, place a symbol of use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RNG	SEC	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	
04N	18E	19		NW	SW										NE	NW			
			1	34	33	38									21	18			145

Total number of acres irrigated 145

11. In which county (ies) are lands listed above as place of use located? BLAINE

12. Do you own the property listed above as place of use? Yes No
If your answer is No, describe in Remarks below the authority you have to claim this water right.

13. Describe any other water rights used at the same place and for the same purposes as described above.
or None ()

14. Remarks: WEYYAKIN SUBDIVISION COMMON AREA PROPERTY IS

BEING CONVEYED TO CLAIMANT IN NOVEMBER 1988. THIS FILING IS ON
THAT COMMON AREA.

COPY MICROFILMED
FEB 22 1993

Last Name WEYYAKIN

Ident No.

A37-00289

Copies: White -State, Yellow-Claimant

15. Basis of Claim (check one) Beneficial Use _____ Posted Notice _____ License _____ Permit _____
Decree XXX
If applicable provide IDWR Water Right Number 37-00289
Court _____ Case Number _____ Decree Date 12-13-1909
Plaintiff vs Defendant ALTURAS WATER CO., ET AL. V. S.C. FROST, ET AL.

16. Signature (s)

(a.) By signing below, I/We acknowledge that I/We have received, read, and understand the form entitled "How you will receive notice in the Snake River Basin Adjudication." (b.) I/We do _____ do not _____ wish to receive and pay a small annual fee for monthly copies of the docket sheet.

Number of attachments _____

For Individuals: I do solemnly swear or affirm that the statements contained in the foregoing document are true and correct.

Signature of Claimant (s) _____ Date _____
_____ Date _____

For Organizations: I do solemnly swear or affirm that I am Manager Title
of Weyyakin Ranch Property Owners Assoc, Inc. Organization, that I have signed the foregoing document in the space below as Manager Title of the same Organization
and that the statements contained in the foregoing document are true and correct.

Signature of Authorized Agent Bradford H. Scott

Title and Organization Manager, Weyyakin Ranch Prop Owners Assoc. Date 10/25/88
Inc.

State of Idaho/or _____)
County of TWIN FALLS) SS.

Subscribed and sworn (or affirmed) before me this 25th day of October 19 88

SEAL

Notary Public [Signature]

Residing at Twin Falls

My Commission Expires Lifetime

17. Notice of Appearance:

Notice is hereby given that I, [Signature] (G.D. Slette) will be acting as attorney at law on behalf of the claimant signing above, and that all notices required by law to be mailed by the director to the claimant signing above should be mailed to me at the address listed below.

Signature [Signature]

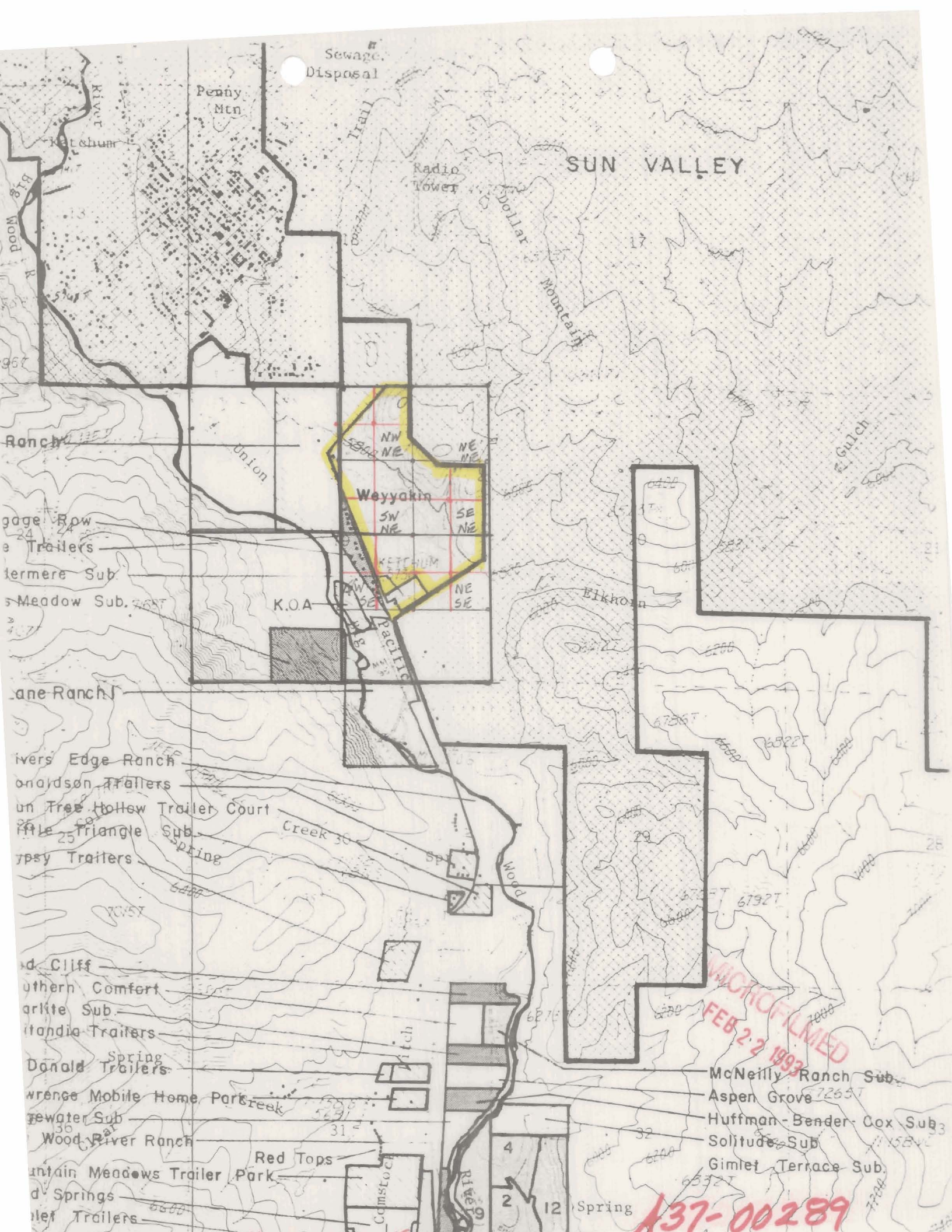
Address P.O. BOX 1906, TWIN FALLS ID 83303-1906

Date 10/26/88

Last Name WEYYAKIN Ident. Number A37-00289

Copies White-State, Yellow-Claimant

RECORDED
FEB 22 1993
COPY



Sewage Disposal

Penny Mtn

Radio Tower

SUN VALLEY

Trail

Dollar Mountain

Gulch

Weyyakin

K.O.A.

KETCHUM

PACIFIC

Elkhorn

ane Ranch

ivers Edge Ranch

onaldson Trailers

un Tree Hollow Trailer Court

file Triangle Sub

ypsy Trailers

d Cliff

uthern Comfort

arkite Sub

itandia Trailers

Donald Trailers

wrence Mobile Home Park

ewater Sub

Wood River Ranch

Mountain Meadows Trailer Park

d Springs

let Trailers

McNeilly Ranch Sub

Aspen Grove

Huffman-Bender-Cox Sub

Solitude Sub

Gimlet Terrace Sub

12 Spring

137-00289

RE: In Re the General Adjudication of Rights to the Use of
Water from the Snake River Basin Water System, Case
No. 39576, District Court for Twin Falls County, Idaho

Claimant: Weyyakin Ranch Property Owners Assn.

Claim No.(s): **A37-00289**

Yes It is my desire that the law firm of Rosholt,
Robertson & Tucker enter an appearance on my behalf in the
Adjudication and represent my interest in the Adjudication
process.

DATED this 22 day of Nov., 1991.

Bradford H. Scott
Manager

It is not my desire that the law firm of Rosholt,
Robertson & Tucker represent my interest in the Adjudication
process.

DATED this _____ day of _____, 1991.

RECORDED
FEB 22 1993

RECEIVED

RECEIVED JAN 24 1997

JAN 24 1997

Department of Water Resources
Southern Region

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DIVERSION DAM TO EARTHEN DITCH TO PROPERTY.

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or)	A.F.A.
IRRIGATION	04/01	11/01	7.000		

7. Total Quantity Appropriated is:
7.000 C.F.S. (and/or) A.F.A.

8. Total consumptive use is 363.0 Acre Feet Per Annum.

9. Non-irrigation uses:
RECREATION/AESTHETICS

10. Place of Use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
04N	18E	19	NW	NE		IRR	0.9
			SW	NE		IRR	30.4
			SE	NE		IRR	6.2

A37-00289

Page 1

Date 01/17/97

Reflected
COPY

10. Place of Use: Continued

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
04N	18E	19	SE	NW		IRR	0.3
			NE	SE		IRR	14.5
			NW	SE		IRR	13.6
						Section Acres	65.9
						Total Acres	65.9

11. Place of use in counties: BLAINE

12. Do you own the property listed above as place of use? YES

13. Other Water Rights Used:
NONE

14. Remarks:

IRRIGATED AREA INCLUDES LANDSCAPING, PASTURE AND COMMON AREA IN THE WEYYAKIN SUBD. AESTHETIC PURPOSES INCLUDE MULTIPLE PONDS THAT ARE USED IN PART FOR IRRIGATION STORAGE. SYSTEM HAS BEEN IN PLACE SINCE 1981.

15. Basis of Claim: DECREED

Case Number:

Court :

Decree date: / /

S. C. FROST, ET. AL.
Decree Plaintiff

ALTURAS WATER COMPANY, ET. AL
vs Decree Defendant

16. Signature(s)

(a.) By signing below, I/We acknowledge that I/We have received, read and understand the form entitled "How you will receive notice in the Snake River Basin Adjudication." (b.) I/We do ___ do not ___ wish to receive and pay a small annual fee for monthly copies of the docket sheet.

Number of attachments: _____

COPY

Rejected

For Organizations:

I do solemnly swear or affirm that I am _____ of
_____, that I have signed the foregoing
Organization _____, that I have signed the foregoing
document in the space below as _____ of
_____, and that the statements contained in the
Organization _____ foregoing document are true and correct.

Bradford H. Scott
Signature of Authorized Agent

Manager - Wyoming H.C.I.
Title and Organization

Jan. 19, 1997
Date

State of Idaho)
County of Blaine) SS.

Subscribed and sworn (or affirmed) before me this 21st day
of January 19 97

Scott M. J. Lee
Notary Public

Seal

Residing at Hailey
My Commission Expires 8/4/99

17. Notice of Appearance:

Notice is hereby given that I, _____ will be
Print Name

acting as attorney at law on behalf of the claimant signing above, and that
all notices required by law to be mailed by the director to the claimant
signing above should be mailed to me at the address listed below.

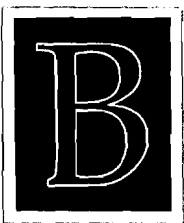
Signature _____

Address _____

Date _____

COPY

Reflected



BROCKWAY
ENGINEERING
P.L.L.C.

Hydraulics

Hydrology

Water Resources

RECEIVED

7:41 PM MAR 28 1997

Department of Water Resources
Southern Region

March 27, 1997

Mr. Doug Jones
Idaho Dept. of Water Resources
1341 Fillmore Street, Suite 200
Twin Falls, ID 83301

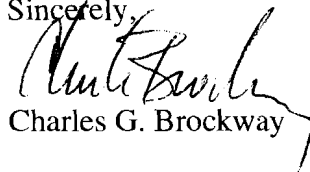
Re: Weyyakin Ranch SRBA claim A37-00289

Dear Doug:

Per your request for additional information regarding the Weyyakin Ranch distribution system, I am enclosing a report prepared by Brockway Engineering in December of 1995 and revised on March 27, 1997. The report details the diversion and distribution system and includes calculation of water supply requirements.

Please do not hesitate to call if you have questions.

Sincerely,



Charles G. Brockway

enclosure

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

CHARLES G.
BROCKWAY,
PH.D.

706 SUNRISE
BOULEVARD
NORTH

TWIN FALLS,
IDAHO 83301

208•733•0938

208•734•2580

FAX: 736•1746

cc: Brad Scott
Gary Slette

COPY

2008 SEP 11 PM 3: 04

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE
STATE OF IDAHO, IN AND FOR THE COUNTY OF TWIN FALLS

In Re SRBA

Subcase No. 37-289

Case No. 39576

NOTICE OF COMPLETED
ADMINISTRATIVE PROCEEDING

IDWR has completed the following Administrative proceeding: **SUBSTITUTION OF PARTY**

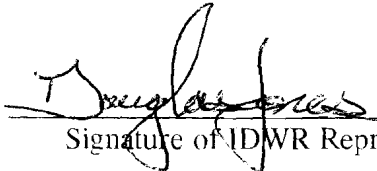
Does the change in "ownership" result in a splitting of the water right claimed? ☐ Yes ☒ No

IDWR certifies that it has completed its investigation into the changes to the elements of the water rights listed above as set forth in the attached *Amended Director's Reports* for said water rights. No other changes have been made to the elements of these water rights except as set forth above.

IDWR has served copies of the *Notice of Completed Administrative Proceeding* and *Amended Director's Report(s)* on the claimant(s), prior claimant(s) and all parties in the subcases affected, if any, as reflected on the attached certificate of mailing.

Dated:

9/10/08


Signature of IDWR Representative

CERTIFICATE OF MAILING

I certify that on 9/11/08, 2008, I delivered the original and copies of this form, including all attachments, to the following persons, postage prepaid if required and addressed as follows:

1. Original to:

Clerk of the District Court
Snake River Basin Adjudication
253 Third Avenue North
PO Box 2707
Twin Falls ID 83303-2707

2. Copies to:

Chief Natural Resources Division
Office of the Attorney General
PO Box 44449
Boise ID 83711-4449

Albert Barker
Barker Rosholt & Simpson
PO Box 2139
Boise ID 83701

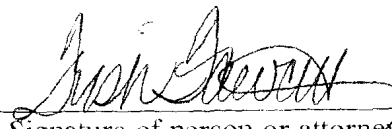
United States Dept of Justice
Environment & Natural Resource Div
550 West Fort Street MSC 033
Boise ID 83724

Craig Hobdey
Hobdey & Hobdey
PO Box 176
Gooding ID 83330

Randy Hall, Mayor
City of Ketchum
PO Box 2315
Ketchum ID 83340

Susan Buxton
Moore Smith Buxton & Turke
950 W Bannock St Ste 520
Boise ID 83702

J Evan Robertson
Robertson & Slette
PO Box 1906
Twin Falls ID 83303



Signature of person or attorney mailing the form

07/31/2008

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

RIGHT NUMBER: 37-289

NAME AND ADDRESS: CITY OF KETCHUM
PO BOX 2315
KETCHUM ID 83340

SOURCE: TRAIL CREEK

TRIBUTARY: BIG WOOD RIVER

QUANTITY: 7.000 CFS

PRIORITY DATE: 05/01/1883

POINT OF
DIVERSION:

T04N R18E S7 SESWSE Within BLAINE County

PURPOSE AND
PERIOD OF USE:

<u>PURPOSE OF USE</u>	<u>PERIOD OF USE</u>	<u>QUANTITY</u>
IRRIGATION	04/15 10/31	7.000 CFS

PLACE OF USE: IRRIGATION in BLAINE County

T04N R18E S19	NWNE	0.30	T04N R18E S19	SWNE	27.00
T04N R18E S19	SENE	3.00	T04N R18E S19	SENE	0.50
T04N R18E S19	NESE	9.70	T04N R18E S19	NWSE	15.00

55.5 ACRES TOTAL

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

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

EXPLANATORY MATERIAL: BASIS OF CLAIM - Decreed



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

September 11, 2008

C. L. "BUTCH" OTTER
Governor

DAVID R. TUTHILL, JR.
Director

RANDY HALL MAYOR
CITY OF KETCHUM
PO BOX 2315
KETCHUM ID 83340

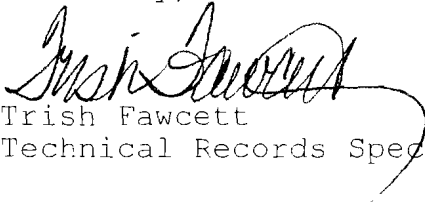
RE: SRBA Claim(s) 37-289

Dear Claimant:

Please find the enclosed copy of the Notice of Completed Administrative Proceeding, which the department has filed with the SRBA Court regarding the above referenced claims. You have received this notice pursuant to SRBA Court Administrative Order 11 requiring IDWR to report to the court and interested parties any pending changes to adjudication claims in basins for which a Director's Report has been filed with the court.

Please contact this office if you have any questions about the notice or the administrative process.

Sincerely,



Trish Fawcett
Technical Records Specialist

Enclosures

cc: Susan Buxton
Moore Smith Buxton & Turke
950 W Bannock Ste 520
Boise ID 83702

J Evan Robertson
Robertson & Slette
PO Box 1906
Twin Falls ID 83303

Albert Barker
Barker Rosholt & Simpson
PO Box 2139
Boise ID 83701

Craig Hobdey
Hobdey & Hobdey
PO Box 176
Gooding ID 83330

RECEIVED

JUL 10 2008

DEPT. OF WATER RESOURCES
SOUTHERN REGION

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
NOTICE OF CHANGE IN WATER RIGHT OWNERSHIP

Please print or type. Attach pages with additional information. Instructions are included at the end of this form. Incomplete forms will be returned.

1. Please list the water right number(s) and/or adjudication claim number(s) (if any) for each water right to be changed. List just the adjudication claim number if there is no corresponding water right record on file with the department. Indicate, by checking in the space provided (under the "split" heading), if the change in ownership is limited to a portion of a water right in which case IDWR will produce new water right number(s) for the split(s).

Water Right No(s)	Adjudication Claim No(s)	Split(s)	Water Right No(s)	Adjudication Claim No(s)	Split(s)
37-289	37-289				

2. The following **REQUIRED** information must be submitted with this form:

- A. The appropriate **FILING FEE**. See instructions for fee amounts.
- B. A copy of the most recent **DEED, TITLE POLICY, CONTRACT OF SALE** or other legal document indicating your ownership of the property and water right(s) or claim(s) in question, **WITH ATTACHED LEGAL DESCRIPTION**.
- C. Either of the following (if necessary to clarify division of water rights or other complex property descriptions):
PLAT OF PROPERTY or **SURVEY MAP** clearly showing the location of the point(s) of diversion and place of use of your water right(s) and/or adjudication claim(s) (these are on file with the county Planning and Zoning or Recorder's Office).
- OR**
- D. If your water right(s) and/or adjudication claim(s) is for ten or more acres of irrigation, you must submit a USDA Farm Service Agency or equivalent **AERIAL PHOTO** with the irrigated acres outlined and point(s) of diversion clearly marked. The **AERIAL PHOTO** should be submitted in place of the **PLAT OF PROPERTY** or **SURVEY MAP**.

3. Name and Address of Former
Owner/Claimant(s)

Weyyakin Ranch Property Owners Association, Inc.

PO BOX 728, Ketchum, Idaho 83340-0728

CITY OF KETCHUM

4. New Owner/Claimant(s)

Name Connector (Check one): [] and, [] or, [] and/or

PO BOX 2315

New Mailing Address

KETCHUM, IDAHO 83340-2315

City, State and ZIP Code

New Telephone Number

(208-726-3841)

5. Date you acquired the property

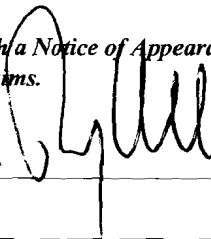
June 12, 2008

6. If the change in ownership affects the entire water right for each water right or adjudication claim number listed in line 1, then skip this line and go to line 7. If the change in ownership divides the water right(s) among multiple owners, you must describe, in detail, your portion of each water right after the change. Fill in the appropriate spaces in the box(es) below to describe your water right(s) after the change (you may copy this page, if necessary). If your quantity of water is greater than a proportionate split, you must attach documentation to show justification for a larger amount. If you are not sure how to identify your portion of the original water right or adjudication claim records, please contact the nearest IDWR office for assistance.

DESCRIPTION OF YOUR PORTION OF WATER RIGHT (If the right will not be split, skip this area and proceed to line 7)		
Water Use	Diversion Rate or Volume (cubic feet per second or acre-feet per annum)	Description (acres, number and type of stock, homes, etc)
Water Right and/or Adjudication Claim Number		37-289
Irrigation	7 cfs	see attached Std Form 1
Stock		
Domestic		
Other	7 cfs	see attached Std Form 1
Totals	7 cfs	
Water Right and/or Adjudication Claim Number		
Irrigation		
Stock		
Domestic		
Other		
Totals		
Water Right and/or Adjudication Claim Number		
Irrigation		
Stock		
Domestic		
Other		
Totals		

For Snake River Basin Adjudication Claims: Please attach a Notice of Appearance completed by your attorney, if you wish IDWR to correspond with him/her for all matters related to your claims.

7. Signature(s) of New Owner(s) or Claimant(s)



KETCHUM MAYOR

(title if applicable)

(title if applicable)

IT IS IMPORTANT TO FILE THIS COMPLETED FORM AT THE APPROPRIATE IDWR OFFICE, WITH PAYMENT OF THE FILING FEE AND THE OWNERSHIP DOCUMENT(S), AS REFERRED TO IN LINE 2.

For IDWR Office Use Only:

Received by _____ Date _____
 Received by _____ Date _____
 Processed by _____ AJ Date _____

Receipt Amt. _____
 Receipt No. _____
 WR _____ Date _____

Instrument # 558883

HAILEY, BLAINE, IDAHO

6-12-2008 11:25:00 No. of Pages: 2

Recorded for: J EVAN ROBERTSON, PA

JOLYNN DRAGE

Fee: 6.00

Ex-Officio Recorder Deputy

Index to: WTY/QC/CORP DEED

ympp

QUITCLAIM DEED

FOR VALUE RECEIVED, WEYYAKIN RANCH PROPERTY OWNERS ASSOCIATION, INC., hereinafter referred to as "Grantor", does hereby convey, release, remise and forever quitclaim unto CITY OF KETCHUM, an Idaho municipal corporation, hereinafter referred to as "Grantee", whose address is P.O. Box 2315, Ketchum, Idaho, 83340-2315, all of its right, title and interest in and to the following State of Idaho water right as claimed in the Snake River Basin Adjudication, to-wit:

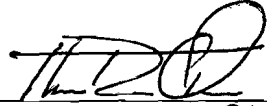
Idaho Department of Water Resource No. 37-289

To have and to hold the said premises and their appurtenances unto the said Grantee, its successors and assigns, forever.

DATED this 31 day of MAY, 2008.

"GRANTOR"

WEYYAKIN RANCH PROPERTY
OWNERS ASSOCIATION, INC.

By: 
Thomas R. Oliver, President

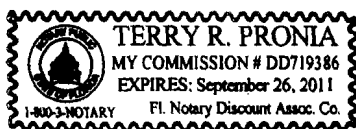
ATTEST:

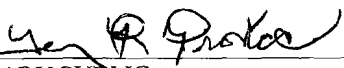

Bill Nagel, Secretary

STATE OF FLORIDA)
ss.
County of LEE)

On this 31 day of MAY, 2008, before me, a Notary Public for said county and state, personally appeared _____, known or identified to me to be the President of Weyyakin Ranch Property Owners Association, Inc., and the person who executed the instrument on behalf of said corporation, and acknowledged to me that such corporation executed the same.

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

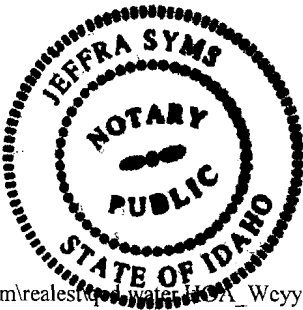



NOTARY PUBLIC
Residing at PORT CHARLOTTE
My commission expires 9/26/11

STATE OF IDAHO)
)
) ss.
County of Blaine)

On this 2nd day of June, 2008, before me, a Notary Public for said county and state, personally appeared Bill Nagel, known or identified to me to be the Secretary of Weyyakin Ranch Property Owners Association, Inc., and the person who executed the instrument on behalf of said corporation, and acknowledged to me that such corporation executed the same.

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



!rlm\realest...water... Weyyakin

Jeffra Syms
NOTARY PUBLIC FOR IDAHO
Residing at Ketchikan, Idaho
My commission expires July 25, 2011

01/11/2007

IDAHO DEPARTMENT OF WATER RESOURCES
PRELIMINARY RECOMMENDATION OF WATER RIGHTS ACQUIRED UNDER STATE LAW

RIGHT NUMBER: 37-289

NAME AND ADDRESS: WEYYAKIN RANCH PROP OWNERS ASSN INC
ATTN: BRAD SCOTT
PO BOX 728
KETCHUM ID 83340

SOURCE: TRAIL CREEK

TRIBUTARY: BIG WOOD RIVER

QUANTITY: 7.000 CFS

PRIORITY DATE: 05/01/1883

POINT OF DIVERSION:

T04N R18E S7 SESWSE Within BLAINE County

PURPOSE AND
PERIOD OF USE:

<u>PURPOSE OF USE</u>	<u>PERIOD OF USE</u>	<u>QUANTITY</u>
IRRIGATION	04/15 10/31	7.000 CFS

PLACE OF USE: IRRIGATION in BLAINE County

T04N R18E S19	NWNE	0.30	T04N R18E S19	SWNE	27.00
T04N R18E S19	SENE	3.00	T04N R18E S19	SENE	0.50
T04N R18E S19	NESE	9.70	T04N R18E S19	NWSE	15.00

55.5 ACRES TOTAL

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

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

EXPLANATORY MATERIAL: BASIS OF CLAIM - Decreed

Idaho Department of Water Resources

Right(s): 37-289

Recommended Place of Use

TWP 04N RNG 18E S18

Prepared January 11, 2007



660 0 660 1320 Feet



● Recommended Point of Diversion

□ Recommended Place of Use

□ Quarter Section Lines

□ PLSS Section Lines



GIS Place of Use Presentation
1987 NAPP Aerial Photography

Prepared by Amanda Kriwox

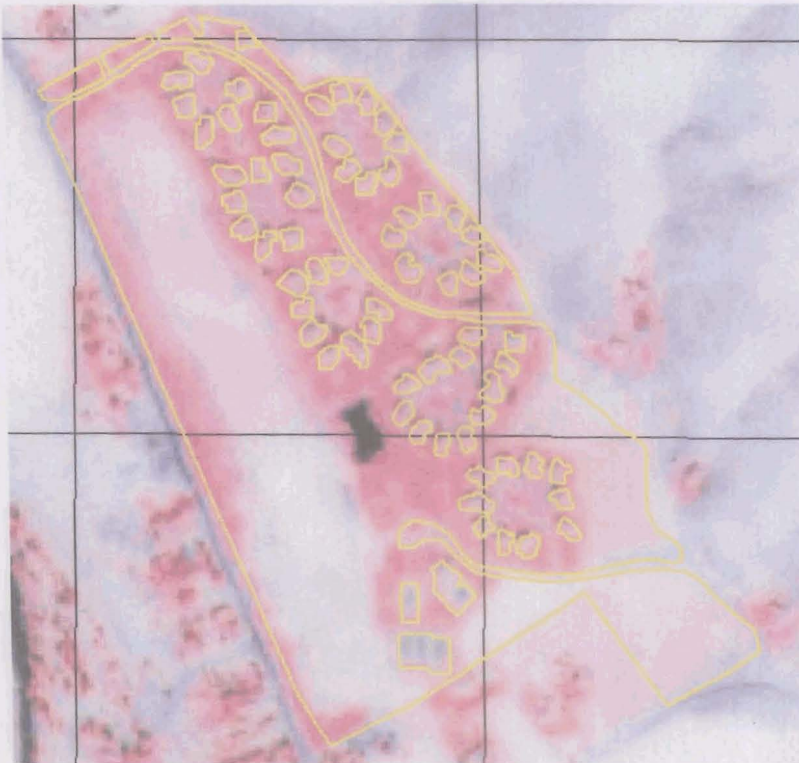
37-289. Weyyakin Ranch

37-289 decreed for: 350" (7 cfs), May 1, 1883...Trail Creek. POU..4N 18E S19 SWNE, NESE, NWSE, NESW, NWNE (200 acres)

CLAIM: Original claimed filed in 1988 claimed irrigation of 145 acres. Amended in 1997 to add aesthetic/recreation to the original irrigation use. Claimed irrigation reduced to 65.9 acres.

Brockway engineering report does not appear to state when the 30 aesthetic/recreation ponds were developed...1969 imagery shows no ponds, 1987 imagery shows 2 ponds, 1992 imagery hard to determine; does not appear that all 30 ponds were developed. Couldn't locate all 30 using 2004 imagery, some might be too small to pick up with available imagery. However, it appears that all but 2 of the ponds were developed AFTER 1987...cannot recognize an accomplished transfer of use at this point.

Brockway report also states "no irrigation of common areas among the condominium units is from the Ketchum supply....approximately 66 acres of irrigated pasture, berm, and landscape are associated with the subdivision...". Based on 1987 imagery, removing the roads and actual condos... there is approximately **55 acres of irrigation**.



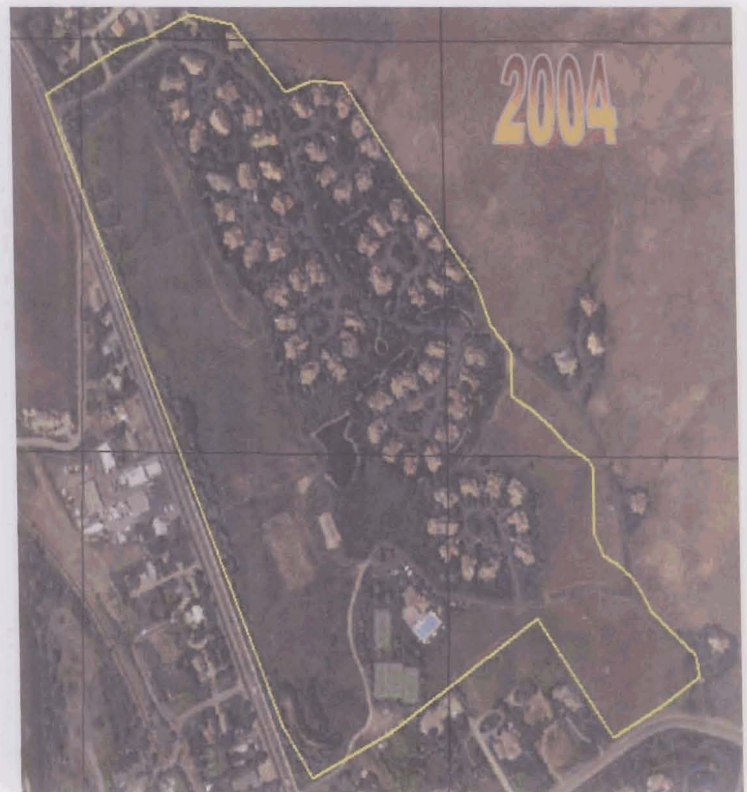
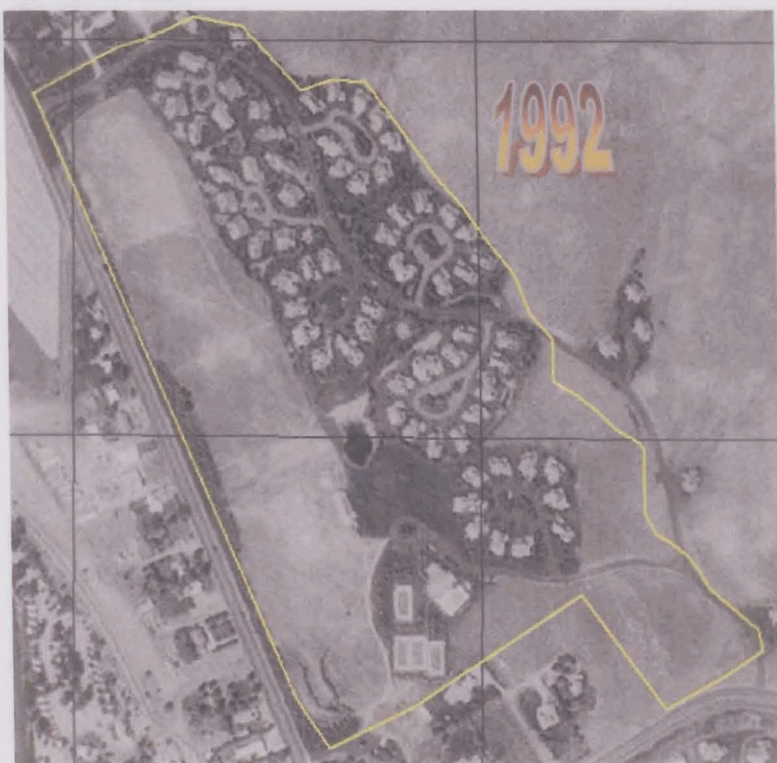
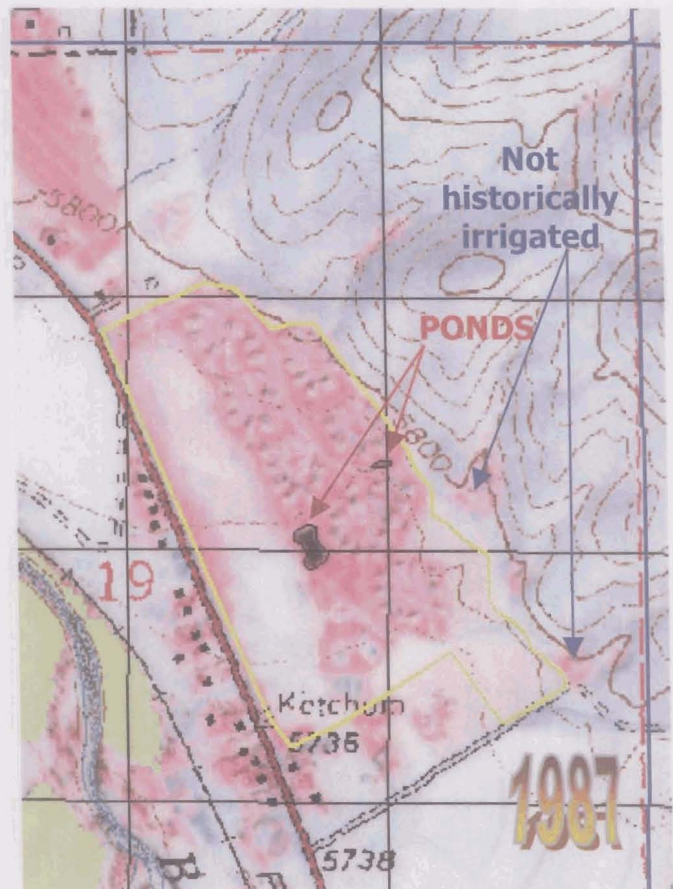
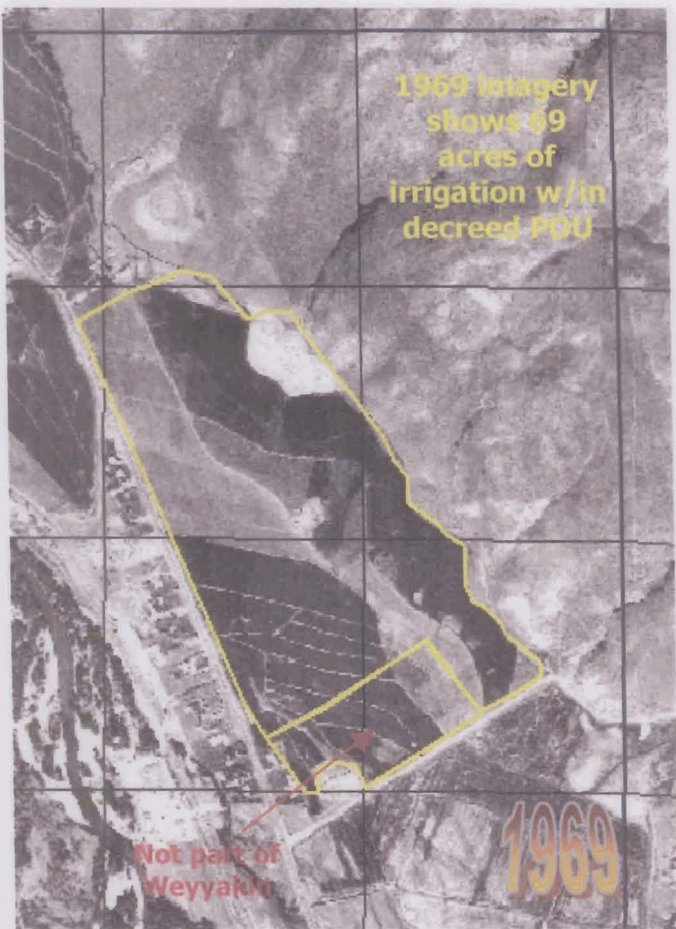
Watermaster records:

03	P. MCCOY	WEYYAKIN PARTNERS	37-0289	BELLE GREEN	05 / 01 / 1883	350.00	7.00	11.80	11.8
----	----------	-------------------	---------	-------------	----------------	--------	------	-------	------

Appears to be delivered as claimed

RECOMMENDATION: Pending further information, will not recommend aesthetic/recreation as an accomplished transfer. Irrigation will be recommended as 55 acres at the delivered diversion rate. Appears that other property might actually have a right to some of this water but there are no other SRBA claims against 37-289.

37-289: Weyyakin Ranch..imagery



37-289

350" (7 cfs), May 1, 1883...Trail Creek. POU..4N 18E S19 SWNE, NESE, NWSE, NESW,
NWNE (200 acres)

37-289

350" (7 cfs), May 1, 1883...Trail Creek. POU..4N 18E S19 SWNE, NESE, NWSE, NESW,
NWNE (200 acres)

[illegible]

of SW 1/4 of Sec. 32, T. 5 S., R. 15 E., N 1/2 of SW 1/4 of Sec. 1, SE 1/4 of Sec. 2, and N 1/2 of SW 1/4 of Sec. 2, T. 6 S., R. 15 E., containing 520 acres. ✓ Lots 3, 4 and 5, and SE 1/4 of NW 1/4 of Sec. 6, T. 6 S., R. 15 E. NW 1/4 of SE 1/4, NE 1/4 of SW 1/4, and SE 1/4 of NW 1/4 of Sec. 32, T. 5 S., R. 15 E., containing 120 acres.

Gooding, Walter

W 1/2 of NW 1/4 and W 1/2 of SW 1/4 of Sec. 29, T. 5 S., R. 15 E., containing 160 acres. Lots 1 and 2 and NE 1/4 of NW 1/4, and NW 1/4 of NE 1/4 of Sec. 31, T. 5 S., R. 15 E., containing 160 acres.

Green, Miss Belle,
Guardian of Fred.
and Louise Potheir

SW 1/4 of NE 1/4, N 1/2 of SE 1/4, NE 1/4 of SW 1/4, and NW 1/4 of NE 1/4 of Sec. 19, T. 4 N., R. 18 E., containing 200 acres.

Grenfell, Annie,
and John Edwards

(Same as Edwards, John, and Annie Grenfell.)

Grey, John J.

(See Finding No. 18).

Guiver, George D.

NE 1/4 of Sec. 15, T. 2 S., R. 21 E., 160 acres.

Gwinn, Frank

S 1/2 of S 1/2 of Sec. 5, T. 5 S., R. 18 E., containing 160 acres.

Gwinn, Frank P.

N 1/2 of NE 1/4 and E 1/2 of NW 1/4 of Sec. 8, T. 5 S., R. 18 E., containing 160 acres.

Gwinn, William R.

SE 1/4 of NE 1/4 of Sec. 31, T. 4 S., R. 18 E.; Lot 1, S 1/2 of NE 1/4, and the SE 1/4 of Sec. 6, T. 5 S., R. 18 E., containing 320.82 acres.

Hailey Water &
Power Company

SE 1/4 of SE 1/4, W 1/2 of SE 1/4, Sec. 28; NW 1/4 of NE 1/4, S 1/2 of NW 1/4, NW 1/4 of SW 1/4, Sec. 23; NE 1/4 of SE 1/4, S 1/2 of SE 1/4, SE 1/4 of SW 1/4, Sec. 22; NE 1/4 of NW 1/4 of

JUN 04 1996

Green, Miss Belle, Guardian,	350 inches.	May 1, 1883.	Trail Creek.
Grenfell, Annie, and John Edwards			(See Edwards and Grenfell.)
Grey, John J.			(See Finding No. 18.)
Guiver, George	100 inches.	Apr. 1, 1892.	Little Wood River. (Also shares in Little Wood River Canal Co.)
Gwinn, Frank	120 "	Apr. 23, 1906.	Big Wood River.
Gwinn, Frank P.	160 "	Nov. 15, 1897.	" " "
Gwinn, William R.	280 "	Apr. 23, 1906.	" " "
Hailey Water & Power Company	All of creek.	(Exclusive right, (as successor of) (Nancy M. Tucker.)	Indian Creek.
Do.	300 inches.	Nov. 26, 1886.	Big Wood River.
Hamblett, S. G.	200 "	Sept. 18, 1885.	" " "
Hardin, Arthur L.	154 "	Nov. 2, 1885.	" " "
Harness, David H.	10 "	June 1, 1886.	Corral Creek.
" " "	40 "	May 20, 1901.	Lansing Creek.
Harrington, W. H.	100 "	June 1, 1891.	Big Wood River.
Harris, Perry	80 "	Apr. 26, 1893.	Little Wood River. (Also shares in Little Wood River Canal Co.)
Harris, Susannah	40 "	Apr. 22, 1893.	Little Wood River. (Also shares in Little Wood River Canal Co.)
Hartsough, Albert E.	120 "	June 30, 1888.	Breck's Creek and Little Silver Creek.
Hartwell, Orville	50 "	Apr. 1, 1888.	Little Wood River.
Heckerd, Adolph, and W.D. Scharff	80 "	June 10, 1887.	Big Wood River.
Hendrick, E. H.	80 "	May 14, 1886.	" " "
Hershey, I. L.	160 "	June 2, 1883.	Soldier Creek.
Iewett, Henry	40 "	Mich. 24, 1883.	Big Wood River. (From Riley ditch.)
Higginson, Charles H.	90 "	Apr. 3, 1884.	Big Wood River.
Higgs, Ben.	100 "	Aug. 31, 1888.	Soldier Creek.

✓ 0275	Gooding, Fred. W.	220 inches.	46	May 15, 1883.	Big Wood River.
✓ 0276	" "	200	103	June 1, 1885.	" " "
✓ 0277	" "	75	203	May 1, 1893.	" " "
✓ 0278	" "	126	214	May 1, 1895.	" " "
✓ 0279	" "	60	218	Mich. 18, 1896.	" " "
✓ 0280	" "	80	240	Oct. 20, 1902.	" " "
✓ 0281	" "				
					(Also shares in Big Cottonwood Canal Co.)
✓ 0282	Gooding, Thomas H.	50		✓ Apr. 1, 1877.	Little Wood River.
✓ 0283	" "	100	91	Apr. 5, 1885.	" " "
✓ 0284	" "	10	129	Apr. 1, 1887.	" " "
✓ 0285	" "	280	218	Mich. 18, 1896.	Big Wood River.
✓ 0286	" "				(Also shares in Big Cottonwood Canal Co.)
✓ 0287	T. *2360 Gooding, Walter	152	79	June 1, 1884.	Big Wood River.
✓ 0288	" "	160	224	May 15, 1897.	" " "
✓ 0289	Green, Miss Belle, Guardian.	350	44	May 1, 1883.	Trail Creek.
	Grenfell, Annie, and John Edwards				(See John Edwards and Annie Grenfell.)
✓ 0290	Grey, John J.	B 320		All of creek.	Burgess Creek } Trans*74
✓ 0291	" "			All of creek.	Early Creek.
✓ 0292	Gurver, George	B+ 100 inches.	140	Apr. 1, 1892.	Little Wood River. (Also shares in Little Wood River Canal Co.)
✓ 0293	Gwinn, Frank	120	301	Apr. 23, 1906.	Big Wood River.
✓ 0294	Gwinn, Frank P.	160	234	Nov. 15, 1897.	" " "
✓ 0295	Gwinn, William R.	280	301	Apr. 23, 1906.	" " "
✓ 0296	Hailey Water & Power Company	All of creek.		(Exclusive right, (as successor of (Nancy M. Tucker.)	Indian Creek.
✓ 0297	Do.	B 300 inches.	176	Nov. 26, 1886.	Big Wood River.
✓ 0298	Hendricks, S. G.	200	104	Sept. 18, 1885.	" " " Trans*47-505-721
✓ 0299	Hardin, Arthur L.	154	111	Nov. 2, 1885.	" " "

ROSHOLT, ROBERTSON & TUCKER
Chartered
ATTORNEYS AT LAW

JOHN A. ROSHOLT
J. EVAN ROBERTSON
JAMES C. TUCKER
GARY D. SLETTE
JERRY V. JENSEN
BRUCE M. SMITH
GARY L. QUIGLEY
JUSTIN R. SEAMONS
JOHN O. FITZGERALD
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Twin Falls Office
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Boise Office
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BOISE, IDAHO 83701-2139
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FAX (208) 334-6034

February 5, 1992

RECEIVED

FEB 07 1992

Idaho Department of Water Resources
Twin Falls, ID

Attention: Judy Givens
Southern Region
Idaho Department of Water Resources
222 Shoshone St. E.
Twin Falls, ID 83301

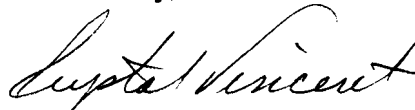
RE: SRBA CLAIMS IN THE SOUTHERN REGION

Dear Judy:

The attached is a list of our clients for whom we filed claims in the SRBA, and who by signing and returning a letter to our office, have requested that we continue to represent them in the adjudication process.

The claims highlighted identify those we filed in your region. Please check these claims and make certain that we are shown on your computer as representative, in order for us to receive the mailings from the department and perform the required service for our clients in a timely manner.

Yours truly,


Crystal Vincent

CV:mw
02059207.CV

RECEIVED
FEB 22 1993

6/9/94

COMMUNICATION DOCUMENTATION

This form is to be used to document public record information requests regarding any SRBA claim or claims. The form may also be used to document IDWR communications requesting information regarding any SRBA claim or claims when the request is not made in writing or the claim verification report is not readily available to document the request. This form is to be filed in all relevant claim files or a central office file.

IDWR Employee/Agent JEANIE M ROBERTSON

DATE

December 12, 1996 2:09pm

CUSTOMER

CRYSTAL/ROSHALT'S OFFICE ~~257-66100~~

SUBJECT: AMEND CLAIM

phone call (.) walk-in (X)

Said claimants wanted to amend this claim to add Recreation/Aesthetics under non-irrigation uses, reduce the irrigated acres from 145 to 58.6, and change the wording in Remarks. I made a "temporary" copy of the amended claim and gave it to her for signatures and notarization. Told her I would amend our records permanently when we received the signed and notarized copy back...

6/9/94

COMMUNICATION DOCUMENTATION

This form is to be used to document public record information requests regarding any SRBA claim or claims. The form may also be used to document IDWR communications requesting information regarding any SRBA claim or claims when the request is not made in writing or the claim verification report is not readily available to document the request. This form is to be filed in all relevant claim files or a central office file.

IDWR Employee/Agent JEANIE M ROBERTSON

DATE

January 17, 1997 9:14am

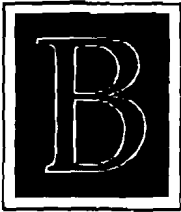
CUSTOMER

**CRYSTAL/ROSHALT'S OFFICE A37-00289
WEYYAKIN RANCH**

SUBJECT: AMENDING CLAIM

phone call (.) walk-in (X)

She received a letter from Brockway changing the acres in Place of Use slightly. I made the changes on the amended claim and gave her a copy. Will take off the TEMP when I receive the signed notorized copy back...



BROCKWAY
ENGINEERING
P.L.L.C.

Hydraulics

Hydrology

Water Resources

January 15, 1997

Rosholt, Robertson & Tucker
Attn: Crystal
P.O. Box 1906
Twin Falls, ID 83303

VIA FACSIMILE

Re: Weyakkin SRBA claim amendment

Dear Crystal:

Here are the final irrigated acres by quarter section for the Weyakkin claim amendment. They are slightly different than the previous values due to a small error in the map scale.

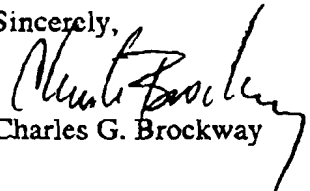
Section 19, T4N, R18E

SENW	0.3
NWNE	0.9
SWNE	30.4
SENE	6.2
NWSE	13.6
NESE	14.5

TOTAL 65.9 acres

These acres include the 6.8 acres of open space in the NESE Sec. 19 that were in question. Please call if you have any questions.

Sincerely,


Charles G. Brockway

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

CHARLES G.
BROCKWAY,
Ph.D.

706 SUNRISE
BOULEVARD
NORTH

TWIN FALLS,
IDAHO 83301

208•733•0938
208•734•2580

FAX: 736•1746



State of Idaho

DEPARTMENT OF WATER RESOURCES

1341 Fillmore Street, Suite 200, Twin Falls, ID 83301-3380

Phone: (208) 736-3033 FAX: (208) 736-3037

January 27, 1997

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

ATTN: BRAD SCOTT
WEYYAKIN RANCH PROPERTY OWNERS' ASSN, INC
PO BOX 728
KETCHUM ID 83340

RE: AMENDED CLAIM A37-00289

Dear Mr Scott:

I have received the above referenced claim and am returning it due to the insufficiently completed oath above the signature. I have prepared and enclosed a replacement form for your completion and signature.

During my review I noted that the agent assisting Rosholt's office in preparing the amended claim overlooked adjusting the consumptive use volume to be consistent with the number of acres irrigated. I have recalculated the consumptive use volume for the 65.9 acres identified on the claim and entered this figure in Item #8 on the claim.

I would also like to take this opportunity to establish a dialogue and inquire about the Association's reasons behind describing recreation and aesthetic use in Items #9 and #14? Please understand that this claim does not provide for diversion of water from Trail Creek for those uses. That is, if a review and recommendation was completed on this claim IDWR would recommend only the amount of water diverted and beneficially used for irrigation purposes.

Please review the claim and fully complete the signature area under Item #16 including the blanks in the oath for organizations, sign and have the claim notarized, and return to this office. If you have any questions with regard to the third paragraph or any other matter please get in touch with me.

Sincerely,

Douglas Jones, P.E.
Water Rights Supervisor
Southern Adjudication Unit

cc: Gary Slette

COPY

IDAHO DEPARTMENT OF WATER RESOURCES

Adjudication Claim Report 37-289

WATER RIGHT NUMBER: 37-289

<u>Owner Type</u>	<u>Name and Address</u>
Current Owner	WEYYAKIN RANCH PROP OWNERS ASSN INC ATTN: BRAD SCOTT PO BOX 728 KETCHUM, ID 83340 (208)726-7444
Attorney	JOHN A ROSHOLT BARKER ROSHOLT & SIMPSON LLP 233 2ND ST N STE D TWIN FALLS, ID 83301 (208)733-0700

Priority Date: 05/01/1883

Basis: Decreed

Status: Active

<u>Source</u>	<u>Tributary</u>
TRAIL CREEK	BIG WOOD RIVER

<u>Beneficial Use</u>	<u>From</u> <u>To</u>	<u>Diversion Rate</u>	<u>Annual Volume</u>
AESTHETIC	04/01 to 11/01	7.000 CFS	
RECREATION	04/01 to 11/01	7.000 CFS	
IRRIGATION	04/01 to 11/01	7.000 CFS	
	<u>Total Diversion:</u>	7.000 CFS	

Location of Point(s) of Diversion

TRAIL CREEK	SW1/4SE1/4	Sec. 7, Twp 04N, Rge 18E, B.M.
BLAINE County		

Place of Use

AESTHETIC

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
04N	18E	19			X	X										X			

RECREATION

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
04N	18E	19			X	X										X			

IRRIGATION

IDAHO DEPARTMENT OF WATER RESOURCES

Adjudication Claim Report 37-289

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04N	18E	19		.9	30.4	6.2				.3					14.5	13.6			65.9

Total Acres: 65.9

Conditions of Approval:Remarks:

1. General WEYYAKIN SUBD. COMMON AREA PROPERTY IS BEING CONVEYED TO CLAIMANT IN NOV. 1988. THIS FILING IS ON THAT COMMON AREA.
2. General 1/31/03, DJ: CLAIM AMENDED IN 1997, BUT DATA ENTRY DID NOT CONVERT FROM VAX, ENTERED THIS DAY WITH SPATIAL WORK, TOO.

Comments:Dates and Other Information:

Claim Received Date: 11/16/1988
 Enlargement Use Priority Date:
 Enlargement Statute Priority Date:
 State or Federal: S
 Owner Name Connector: OR
 Water District Number:
 Generic Max Rate Per Acre:
 Generic Max Volume Per Acre:
 Swan Falls Trust or Nontrust:
 Swan Falls Dismissed:
 DLE Act Number:
 Carey Act Number:
 Mitigation Plan: False

ORIGINAL IN RED

Claimants Names:

Weyyakin Ranch Property Owners Association, Inc.

Attention: Brad Scott

P. O. Box 728

Ketchum, Idaho 83340

Attorney Name & Address:

James P. Speck

Speck & Aanestad

A Professional Corporation

120 East Avenue

P. O. Box 987

Ketchum, Idaho 93340

(208) 726-4421

FAX: (208) 726-0752

RECEIVED
AUG 22 2003
Department of Water Resources
Bozeman, Montana

**IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE
STATE OF IDAHO, IN AND FOR THE COUNTY OF TWIN FALLS**

In Re SRBA

Case No. 39576

)
)
)
)
)
)

**STIPULATION FOR
SUBSTITUTION OF COUNSEL**

TO: CLERK OF THE COURT AND ALL PARTIES

YOU ARE HEREBY NOTIFIED that Weyyakin Ranch Property Owners Association, Claimant of Water Right No. 37-289 , has substituted James P. Speck, of the law firm of Speck & Aanestad, A Professional Corporation, as attorney of record in the place and stead of John A. Rosholt, of the firm of Baker, Rosholt & Simpson, LLP .

YOU ARE FURTHER NOTIFIED that all papers and documents in said action are to be served on James P. Speck.

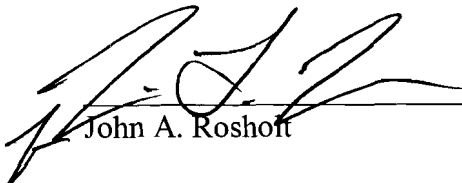
DATED this 5 day of August, 2003.

SPECK & AANESTAD
A Professional Corporation

By 
James P. Speck

DATED this 19~~th~~ day of August, 2003.

BAKER ROSHOLT & SIMPSON, LLP


John A. Rosholt

CERTIFICATE OF SERVICE

Chief, Natural Resources Division
Office of the Attorney General, State of Idaho
P. O. Box 44449
Boise, ID 83711-4449

☒ United States Mail, Postage Prepaid
☐ Hand Delivery
☐ Facsimile, with copy by United States
Mail, Postage Prepaid

The United States Department of Justice
Environmental and Natural Resources
Division
550 West Fort Street
Box 33
Boise, ID 83724

☒ United States Mail, Postage Prepaid
☐ Hand Delivery
☐ Facsimile, with copy by United States
Mail, Postage Prepaid

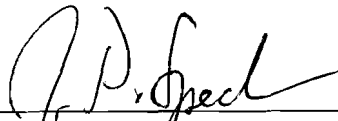
John A. Rosholt
Baker, Rosholt, & Simpson, LLP
233 Second St. N., Ste. D
Twin Falls, ID 83303

☒ United States Mail, Postage Prepaid
☐ Hand Delivery
☐ Facsimile, with copy by United States
Mail, Postage Prepaid

IDWR Document Depository
P.O. Box 83720
Boise, ID 83720-0098

☒ United States Mail, Postage Prepaid
☐ Hand Delivery
☐ Facsimile, with copy by United States
Mail, Postage Prepaid

DATED: August 21, 2003


JAMES P. SPECK

SPECK & AANESTAD

A PROFESSIONAL CORPORATION
ATTORNEYS

120 EAST AVENUE
POST OFFICE BOX 987
KETCHUM, IDAHO 83340

TELEPHONE
(208) 726-4421
FACSIMILE
(208) 726-0752

JAMES P. SPECK
jimspeck@cox-internet.com

DOUGLAS J. AANESTAD
aanestad@cox-internet.com

August 21, 2003

RECEIVED
AUG 21 2003

Mr. Allen Merritt
Idaho Department of Water Resources
1341 Fillmore, Suite 200
Twin Falls, Idaho 83301

**Re: SRBA Claim No. 37-289;
Weyyakin Ranch Property Owners Association Inc.;
Our File No. 1307/030007**

Dear Allen:

Enclosed you will find the original and one copy of the Stipulation for Substitution of Counsel for the above-referenced water right claimed in the SRBA. Please have your office receipt date-stamp the copy and return it to me in the postage prepaid self-addressed envelope included for that purpose.

Please call me if you have any questions. Thank you.

Sincerely yours,

SPECK & AANESTAD
A Professional Corporation

By: _____

James P. Speck

JPS/jef

Enclosures

cc: Client w/encl.
Brockway Engineering w/encl.
IDWR Document Depository w/encl.
J. Rosholt, w/encl.
US Dept. of Justice, Environmental and Natural Resources, w/encl.
Chief, Natural Resources Div., Idaho Attorney General, w/encl.

RECEIVED

MAR 28 1997

Department of Water Resources
Southern Region

**WEYYAKIN RANCH
HYDROLOGY AND WATER RIGHTS**

for

Weyyakin Ranch Property Owners

by

BROCKWAY ENGINEERING, PLLC

Revised March 27, 1997

Original issued December 12, 1995

SCANNED

SEP 29 2010

WEYYAKIN RANCH
HYDROLOGY, WATER SUPPLY, AND WATER RIGHTS

Brockway Engineering, P.L.L.C.

March 27, 1997 (revised)

Introduction

Weyyakin Ranch is a subdivision located in Blaine County south of the City of Ketchum. The subdivision lies east of Highway 75 and the Big Wood River. More specifically, the land is located in Section 19 T4N R18E, Boise Meridian. The total size of the subdivision is approximately 70 acres, and includes 75 units. The domestic water supply for the subdivision is obtained from the City of Ketchum. No irrigation of common areas among the condominium units is from the Ketchum supply. Thirty (30) aesthetic and recreational ponds are situated in the subdivision with surface areas ranging from 132 square feet to 13,522 square feet. Approximately 66 acres of irrigated pasture, berm and landscape are associated with the subdivision in addition to roads, parking areas, and structure footprints. Figure 1 is the site plan and pond layout for Weyyakin. The subdivision is located primarily on alluvium of the Big Wood River valley with highly permeable gravelly loam soils.

Water Supply and Water Rights

The water supply for the aesthetic and recreational ponds is obtained from Trail Creek through the ditch referred to by the watermaster of Water District 37 as the McCoy ditch and the diversion from Trail Creek is referred to as the McCoy #9 diversion. This ditch is approximately 5,700 feet long from the Trail Creek diversion to the entrance to Weyyakin subdivision. It traverses several

SCANNED
SEP 29 2010

subdivisions and maintenance of the ditch is somewhat impeded by building along its course. Water rights and claims listed in the Idaho Department of Water Resources computer data base appurtenant to the Weyyakin area and delivered through the McCoy #9 diversion are shown in Table 1. All rights list irrigation as the beneficial use.

Table 1. Water Rights on File at the Department of Water Resources

Permit or Claim	Owner of Record, IDWR	Priority	Diversion Rate cfs	Acreage
37-00289 Decreed	Belle Green Estate of Fred Pothier Estate of Louise Pothier	May 1, 1883	7.00	Not given T4N R18E Sec 19 NW NE SW SE NW SW NW SE
A37-00289 SRBA Claim	Weyyakin Ranch Property Owners	May 1, 1883	7.00	145.0 T4N R18E Sec 19 NE NE 1.0 NW NE 34.0 SW NE 33.0 SE NE 38.0 NE SE 21.0 NW SE 18.0

SCANNED
SEP 29 2010

The Water District 37 Decree Book for rights above Magic Reservoir shows two water rights for irrigation in the McCoy diversion as shown in Table 2.

Table 2. Watermaster Records of McCoy Diversions

Owner	Number	Original Decree	Priority	Amount cfs
Weyyakin Partners	37-0289	Belle Green	5/1/1883	7.00
Idaho Parks Foundation	37-0457	George W. McCoy	5/1/1883	4.80

Analysis of District 37 records for the period 1947 through 1993 shows that this water right has been cut off prior to the end of the irrigation season on September 30 because of priority cuts in 12 of the 46 years or 26 percent of the years. Table 3 shows the years since 1946 that the right has been cut and the date of the cut.

Table 3. Years When the May 1, 1883 Water Right Has Been Cut

1949	Aug 17	1979	Aug 8
1955	Sept 1	1985	Aug 19
1960	Jul 27	1987	Aug 18
1961	Jul 21	1988	Jul 19
1966	Aug 8	1991	Aug 12
1973	Aug 22	1992	Jul 6

The earliest cutoff date is July 6 which occurred in 1992. For the 182-day period from April 1 through September 30, this right has been in effect for an average of 168 days. The minimum number of days it has been in effect was 96 in 1992.

A small spring issues from the gulch just east of the subdivision and is evidenced by the presence of willows and other riparian vegetation. cursory exploration showed a water table near ground surface near the apparent spring source. Visual observation of the bottom of the gulch indicates that some flow has likely occurred from the spring in the near past. Surface water from snowmelt runoff and spring water flows into the ditch which traverses the east side of the subdivision and becomes part of the water supply.

Pond System

The recreational and aesthetic pond and ditch system system consists of 30 ponds ranging in area from 132 square feet (pond #17) to the large irrigation storage pond which is 13,522 square feet (pond #25). Areas were obtained from recent aerial photographs supplied by Mr. Brad Scott and the Idaho Department of Water Resources. Total pond area is 48,160 square feet or 1.106 acres. Figure 2 shows the location and number of each pond and Table 4 indicates the area of each pond.

The small ponds are estimated to average 1.5 feet deep with the large irrigation pond averaging 6 feet deep. On this basis, the total pond volume is estimated at 3.06 acre feet.

Two main feeder ditches furnish water from the McCoy ditch to all of the ponds with all water ending up at the irrigation storage pond #25. There are approximately 4850 feet of ditch in the entire ditch system including the ditch from the spring to pond #19. Most ditches are about 1.5 feet wide so the ditch area is estimated at 7280 square feet not including the McCoy ditch.

Irrigated area

The subdivision includes approximately 70.9 acres of land including 17.3 acres of pasture and turf on the west side of the property which receive irrigation water

Table 4. Pond Areas

Pond	Estimated area (ft ²)
1	290
2	290
3	1450
4	1450
5	1595
6	870
7	2899
8	1160
9	1431
10	4018
11	165
12	703
13	527
14	307
15	791
16	483
17	132
18	483
19	1318
20	2109
21	1274
22	615
23	262
24	715
25	13522
26	1908
27	692
28	2194
29	2981
30	1526

from the pond system. There are an estimated 1.7 miles of surfaced roads, 75 residential structures, a barn, four tennis courts, and the recreational building and pool area which are included in the gross area estimate. Table 4 shows approximate areas not irrigated.

Table 4. Non-irrigated Areas in Weyyakin Subdivision

Residential foot prints (75 units)	226,500 sq ft
Barn	4576 sq ft
Tennis Courts (4)	31,496 sq ft
Rec. Building and Pool	12,636 sq ft
Roads (1.7 mi)	188,496 sq ft
Total	463,704 sq ft (10.65 acres)

The total net area receiving irrigation water is equal to the gross area (70.9 acres) minus the non-irrigated area (10.7 acres) and pond area (1.1 acres) or 59.1 acres. Including a 6.8-acre undeveloped parcel of open space located in the southeast portion of the subdivision, the total acreage is 65.9 acres.

McCoy Ditch Losses

The McCoy ditch, which conveys water approximately 5700 feet from Trail Creek to the Weyyakin subdivision has significant seepage loss. On September 14, 1995, inflow-outflow loss measurements were made on the ditch for a 5100-foot reach from the Trail Creek diversion downstream to the flow division structure at Emerald Road. Discharge was measured with a current meter and there were no apparent diversions between the inflow and outflow sites. The measured inflow was 6.03 cfs and corresponding outflow was 4.32 cfs. This difference of 1.72 cfs consists of seepage loss and evaporation from the ditch water surface.

Air temperatures were cool so that evaporation losses were low and the measured loss was primarily seepage. This loss amounts to 28.4 percent of the inflow and should be representative of seasonal seepage since the ditch had been in service for the entire summer.

Based on an average top width of the McCoy ditch of 5 feet and estimated side slopes of 1.5:1, the calculated seepage rate is $4.92 \text{ ft}^3/\text{ft}^2/\text{day}$ which is not uncommon in ditches constructed in these types of soils and with gravel substrates.

Pond and Ditch Seepage Losses

Losses from the ponds include seepage and evaporation. In order to determine these losses, a ponding test was conducted on two Weyyakin ponds in September 1995. Pond #10, located near unit #307, and the irrigation supply pond (pond #25) were instrumented with staff gages. The ponds were then filled with water and the inflow stopped. Water level declines were measured for 48 hours and losses calculated. The results are summarized in Table 6 and in Figure 3, which shows the water level response and calculated loss rates in both ponds. Average loss rate for pond #25 was $0.33 \text{ ft}^3/\text{ft}^2/\text{day}$ and the average loss rate for pond #10 was $0.26 \text{ ft}^3/\text{ft}^2/\text{day}$. These loss rates are indicative of fine-grained soils and/or earth liners.

Based on an average loss rate of $0.30 \text{ ft}^3/\text{ft}^2/\text{day}$, the total seepage loss from the 1.11 acres of ponds is 0.33 acre-feet per day or an average daily flow of 0.17 cfs. Average daily loss from the total pond and ditch system, including a loss of 1.91 cfs in the McCoy Ditch, is 2.12 cfs. Lining of the pond and ditch system with membrane liner could decrease seepage losses in the project ditch and pond system to 0.02 ft/day which could reduce seepage losses to 0.04 cfs or an estimated reduction of $0.17 - 0.04 = 0.13$ cfs, which is much less significant than the McCoy ditch loss based on the one measurement.

Table 6. Measured Seepage Rates.

Date and time	Elapsed time (days)	Pond #25 average seepage (ft/day)	Pond #10 average seepage (ft/day)
9-12-95 20:30	0.0000	--	--
9-13-95 09:00	0.5208	0.346	0.288
9-13-95 12:30	0.6667	0.330	0.270
9-13-95 17:05	0.8576	0.338	0.326
9-13-95 21:35	1.0451	0.335	0.297
9-14-95 10:00	1.5625	0.339	0.269
9-14-95 14:00	1.7292	0.330	0.254
9-14-95 20:05	1.9826	0.328	0.262

Water Requirements

Domestic water for each residence is provided by the Ketchum City system. In addition to domestic water requirements, an adequate water supply for the subdivision is needed for three other purposes: 1) to provide irrigation for the pasture, berms, and landscaped area surrounding the ponds and residences; 2) to provide adequate flow to maintain reasonable turnover time in the ponds to avoid stagnation and 3) to provide make-up water for the pond and ditch system to compensate for seepage losses.

Irrigation water application requirements for the 66 irrigated acres can be estimated at 9 gpm/acre or 1.32 cfs. This rate is adequate for sprinkler irrigation but not for surface application which has historically been utilized for crop irrigation on the property.

Evaporation rates from the ditches and ponds were estimated using the Kolar-Nordenson-Fox procedure based on meteorological data obtained by the USDA

Agricultural Research Service at Silver Creek. These estimates are conservatively high for the Upper Big Wood River area.

A computer program for pond and ditch operation analysis was written which evaluates seepage and evaporation rates from each component of the system, computes available inflow for each component based on available project inflow, and determines the turnover period (volume replacement period) for each pond. In addition, the program computes project consumptive use based on common and residential irrigated areas, vegetation types, domestic requirements and pond area and evaporation rates. The program was run for the entire ditch and pond system including the McCoy Ditch for various inflow discharges. Computer output which shows the project water budget components for inflow discharges of 3.5, 5.0, and 7.0 cfs is presented in Appendix A.

Results of the ditch and pond computer analysis show that the annual consumptive use for the ponds and ditches and irrigation of 66 acres of landscaping and pasture is 147.5 acre-feet per year. The pond and ditch evaporation portion of the total consumptive use is 4.9 acre feet per year. The irrigation pumping requirement assuming 9 gpm/acre is 1.32 cfs or 594 gpm. Seepage from the pond and ditch system on the project is estimated at 0.17 cfs. However, with seepage from the McCoy ditch included, the total seepage loss is 2.12 cfs.

Pond turnover times for individual ponds are small for all levels of inflow. They range from 0.1 to 4.4 hours on the smaller ponds for inflow of 3.5 cfs. Total pond replacement time (turnover time) is estimated at 61.7 hours for an inflow rate of 3.5 cfs; 21.6 hours for an inflow of 5.0 cfs; and 11.6 hours for an inflow of 7.0 cfs. These rates should be ample to maintain adequate water quality in the ponds.

Water Supply Alternatives

The surface water right from Trail Creek is a relatively good priority right. The analysis of watermaster records shows that this May 1, 1883 right has been turned off prior to the end of the irrigation season in 12 of the last 46 years.

Unfortunately, 5 of those years have occurred since 1987. Generally, during the 46 years from 1947 through 1993, the right has been deliverable for 92 percent of the 182-day irrigation season from April 1 through September 30. The next earliest surface water right with a significant improvement in reliability is the March 10, 1883 right which was cut only 2 times during the 46 year period.

In order to assure that irrigation water, other than from the City of Ketchum, is available during the latter part of the irrigation season during those years when the May 1, 1883 water right is cut off, it will be necessary to secure either a better priority surface water right or a supplemental ground water right. A surface water right with a priority of March 3, 1883 or earlier would essentially assure that irrigation water would be available for the total irrigation season 96% of the years and unavailable for only short times during the other 4% of the years. Unfortunately, these early priority surface rights are not readily available, and if they are, the cost may be prohibitive. In order to maintain a minimum of 1 to 1.5 cfs entering pond 25 for subsequent irrigation pumping, it would be necessary to secure an early priority right for diversion from Trail Creek of 2.9 to 3.4 cfs to overcome seepage in the McCoy ditch. If it were available, the cost of an early water right of this magnitude would likely be prohibitive, perhaps over \$100,000.

The second alternative is to purchase a supplemental or primary groundwater right and transfer it to a well on the project. This type of right is more likely to be available and only the amount required for the irrigation need be purchased. Additional groundwater could be purchased to make up the seepage and evaporation losses in the ditch-pond system on the project, with the total amount flowing through the system to the irrigation pond. This would allow maintenance of the pond system, although the turnover times would be higher for the periods in late summer and fall when surface water is not available. A groundwater right of approximately 1.25 to 1.5 cfs would be required. This right may cost from \$35,000 to \$50,000 plus the additional cost of a well and pumping system. The likelihood of a groundwater right being available is greater than for an early priority surface right.

Conclusions and Recommendations

1. Based on an inflow-outflow measurement of flow in the McCoy ditch, the seepage losses are high and may account for over of 90 percent seepage losses in the system.
2. Measured seepage losses in the ponds and ditches of about 0.30 ft/day or 0.17 cfs are representative of fine grained soils rather than gravel bottomed ponds. Lining of the ponds at this time is not justified unless it is decided to secure a limited alternative water supply for periods when the Trail Creek supply is not available.
3. The May 1, 1883 irrigation water right from Trail Creek is a relatively reliable right for the Big Wood River drainage and has historically been available over 92 percent of the time during an irrigation season.
4. The irrigation water right applicable to the project is currently on file at the Idaho Department of Water Resources in the name of Belle Greene and the estates of Fred and Louise Pothier. A transfer should be accomplished to change the ownership to the Weyyakin Ranch Property Owners to be consistent with the Snake River Basin Ajudication (SRBA) claim.
5. The original water right does not list the number of acres in the place of use whereas the SRBA claim lists 145 acres irrigated. There are currently 66 acres irrigated with water under this right. A water right transfer application and amendment to the SRBA claim should be filed to reflect the current use for irrigation, recreation, and aesthetics and storage for recreation and aesthetics. Otherwise, a major part of the irrigation water right may be subject to forfeiture.
6. If it is desired to secure a firm water supply for periods when the May 1, 1883 right is off due to priority cuts, two alternatives are possible, both of which involve purchase or securing of additional water rights and transfer to the property:
 - A supplementary or primary ground water right for irrigation could be secured and transferred to a well on the property and utilized for irrigation or irrigation and pond flow maintenance.

- A surface water right with a significantly better priority date (reliability) might be secured and transferred to the Trail Creek diversion, or possibly to a well on the property. Approval of a transfer of a surface right to ground water is not a normal procedure and may not be approved by IDWR. If an earlier surface right is secured for diversion through the McCoy ditch, the ditch should be lined to reduce seepage losses.

7. Development of the spring in the gulch east of the property should be explored as a source of water for the ponds, particularly if a limited alternative water supply is secured for periods when the Trail Creek supply is not available.



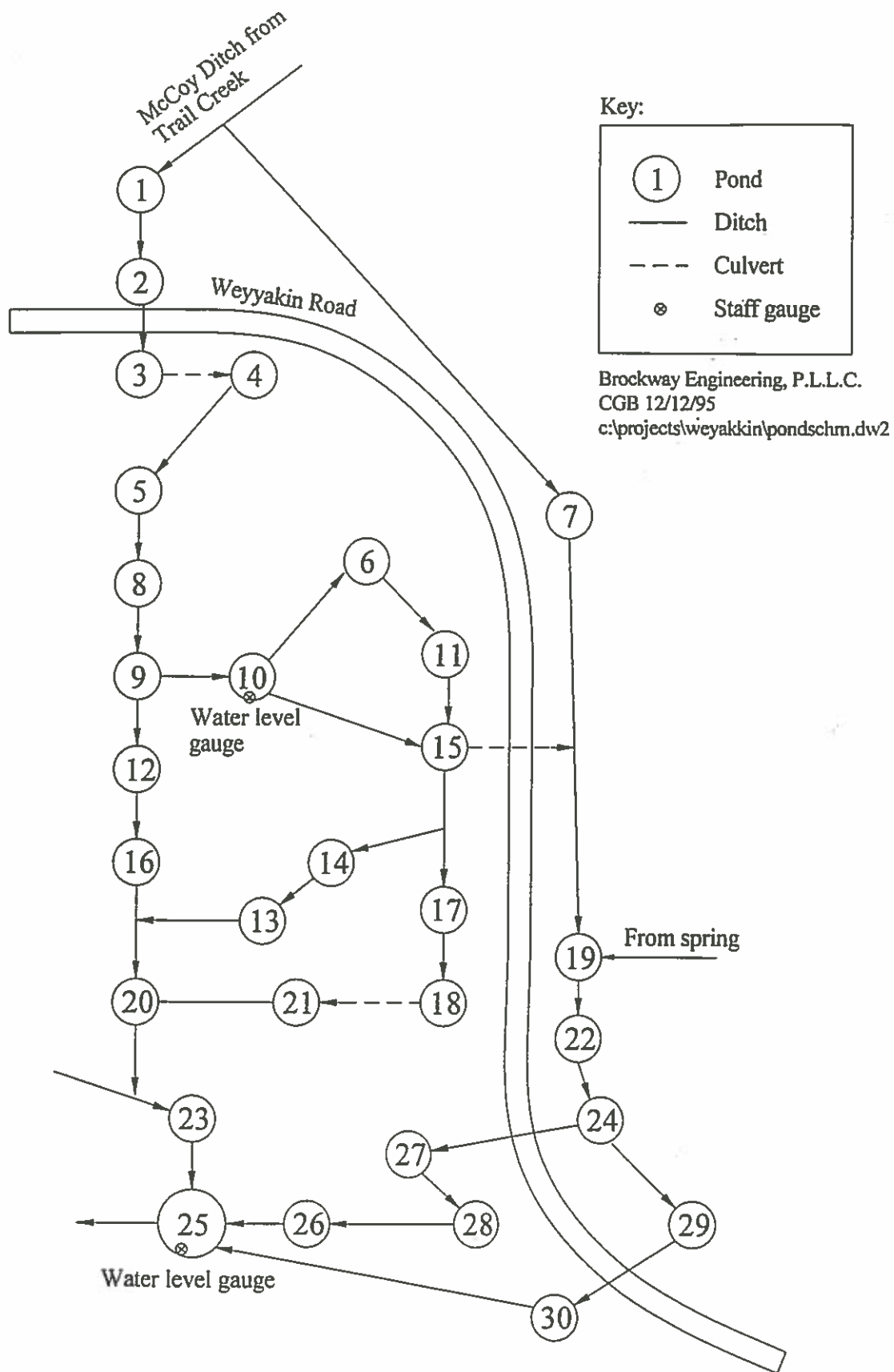
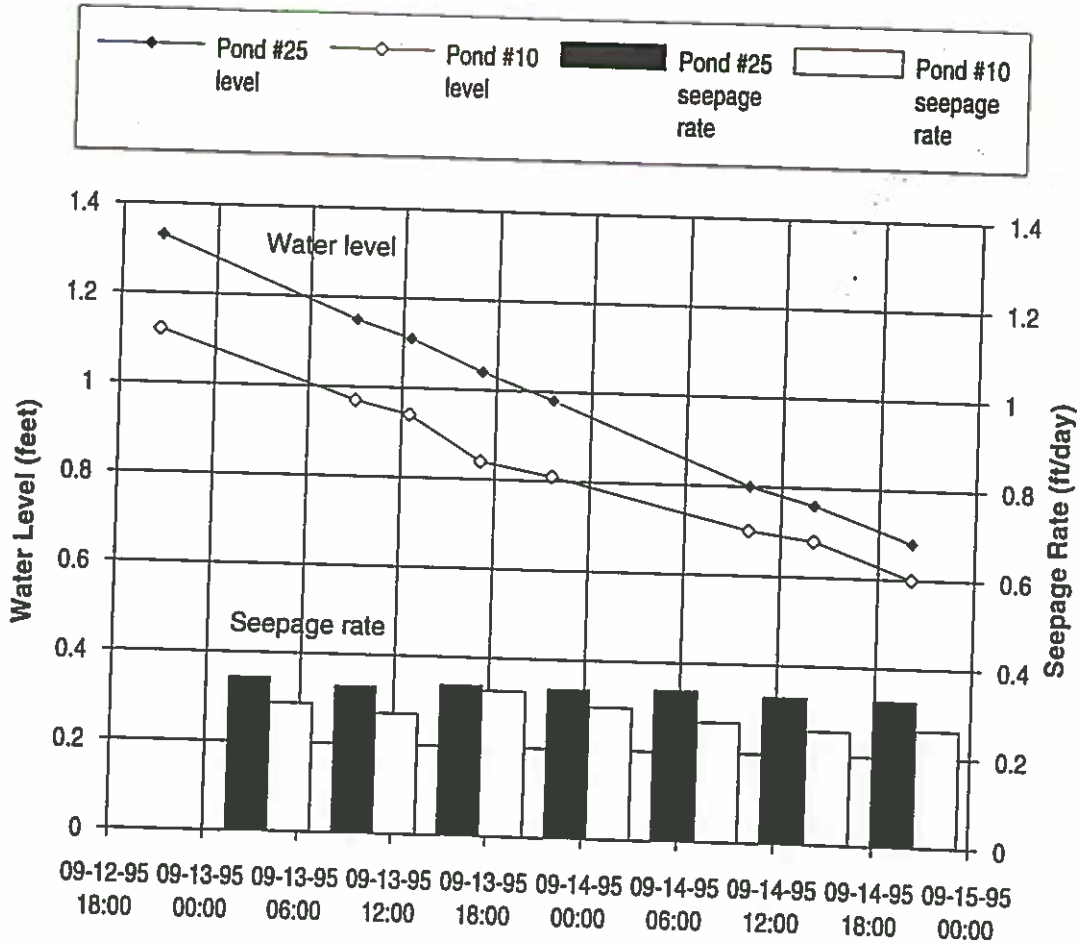


Figure 2. Schematic of ponds and ditches

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Figure 3. Weyyakin Pond Seepage Tests



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APPENDIX A
WATER REQUIREMENT AND USE SCENARIOS
1-3

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Weyakin subdivision

Total ditch length determination from oblique aerial photo

Ditch	Map length (in.)	Map scale 1:x	Uncorrected Length (ft)	Tilt correction	Angle with E-W line	Method 1: binary skew factor		Method 2: Skew adj. w/ sine	
						Adjustment factor	Estimated length	Adjustment factor	Estimated length
1 2	1.50	700	88	2.13	50	2.13	186	1.87	163
2 3 (c)	0.60	700	35	2.13	50	2.13	75	1.87	65
3 4 (c)	1.30	700	76	2.13	0	1.00	76	1.00	76
4 5	1.40	700	82	2.13	20	1.00	82	1.39	113
5 8	0.40	700	23	2.13	80	2.13	50	2.11	49
1 feed	1.20	700	70	2.13	45	1.00	70	1.80	126
7 feed	8.20	655	448	1.92	35	1.00	448	1.53	684
8 9	0.70	655	38	1.92	80	1.92	73	1.91	73
9 10	0.40	610	20	1.70	0	1.00	20	1.00	20
6 10	2.20	655	120	1.92	25	1.00	120	1.39	167
6 11	1.00	655	55	1.92	45	1.00	55	1.65	90
10 15	3.00	610	153	1.70	20	1.00	153	1.24	189
7 19	4.00	610	203	1.70	85	1.70	346	1.70	345
9 12	0.40	610	20	1.70	80	1.70	35	1.69	34
12 16	0.40	610	20	1.70	80	1.70	35	1.69	34
13 14	0.30	610	15	1.70	10	1.00	15	1.12	17
13 outlet	3.20	610	163	1.70	30	1.00	163	1.35	220
14 feed (c)	1.00	610	51	1.70	5	1.00	51	1.06	54
15 17	0.70	610	36	1.70	70	1.70	60	1.66	59
16 20	1.60	610	81	1.70	70	1.70	138	1.66	135
17 18	0.30	610	15	1.70	70	1.70	26	1.66	25
20 21	3.10	610	158	1.70	0	1.00	158	1.00	158
18 21 (c)	0.50	520	22	1.27	70	1.27	28	1.25	27
19 22	1.00	520	43	1.27	70	1.27	55	1.25	54
20 outlet	2.00	520	87	1.27	55	1.27	110	1.22	106
23 feed	1.70	565	80	1.27	50	1.27	102	1.21	97
23 25	3.00	520	130	1.27	90	1.27	165	1.27	165
22 24	1.70	520	74	1.27	40	1.00	74	1.17	86
24 27	0.50	520	22	1.27	40	1.00	22	1.17	25
27 28	0.30	520	13	1.27	85	1.27	17	1.27	16
25 26	1.9	520	82	1.27	20	1.00	82	1.09	90
26 28	1.1	520	48	1.27	0	1.00	48	1.00	48
24 29	1.5	520	65	1.27	35	1.00	65	1.15	75
29 30	3.5	520	152	1.27	75	1.27	193	1.26	191
25 30	10.2	520	442	1.27	0	1.00	442	1.00	442
Spring 19	6.5	610	330	1.7	30	1.00	330	1.35	446

Total length of ditches (ft) 4164

4766

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Weyakin subdivision

Total pond area determination from oblique aerial photo

Pond	Map area (sq. in.)	Map scale 1:x	Uncorrected area (ac)	Tilt correction	Estimated area (ac)	Estimated area (ft^2)
1	0.04	700	0.0031	2.13	0.0067	290
2	0.04	700	0.0031	2.13	0.0067	290
3	0.20	700	0.0156	2.13	0.0333	1450
4	0.20	700	0.0156	2.13	0.0333	1450
5	0.22	700	0.0172	2.13	0.0366	1595
6	0.12	700	0.0094	2.13	0.0200	870
7	0.40	700	0.0312	2.13	0.0666	2899
8	0.16	700	0.0125	2.13	0.0266	1160
9	0.26	610	0.0154	2.13	0.0329	1431
10	0.73	610	0.0433	2.13	0.0922	4018
11	0.03	610	0.0018	2.13	0.0038	165
12	0.16	610	0.0095	1.70	0.0161	703
13	0.12	610	0.0071	1.70	0.0121	527
14	0.07	610	0.0042	1.70	0.0071	307
15	0.18	610	0.0107	1.70	0.0182	791
16	0.11	610	0.0065	1.70	0.0111	483
17	0.03	610	0.0018	1.70	0.0030	132
18	0.11	610	0.0065	1.70	0.0111	483
19	0.30	610	0.0178	1.70	0.0303	1318
20	0.48	610	0.0285	1.70	0.0484	2109
21	0.29	610	0.0172	1.70	0.0292	1274
22	0.14	610	0.0083	1.70	0.0141	615
23	0.11	520	0.0047	1.27	0.0060	262
24	0.30	520	0.0129	1.27	0.0164	715
25	5.67	520	0.2444	1.27	0.3104	13522
26	0.80	520	0.0345	1.27	0.0438	1908
27	0.29	520	0.0125	1.27	0.0159	692
28	0.92	520	0.0397	1.27	0.0504	2194
29	1.25	520	0.0539	1.27	0.0684	2981
30	0.64	520	0.0276	1.27	0.0350	1526

Total pond area (acres) 1.11

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SEP 29 2011

WEYYAKIN SUBDIVISION

WATER REQUIREMENTS AND USE

ESTIMATED POND EVAPORATION AND SEEPAGE

C.E. BROCKWAY P.E and C.G. BROCKWAY 19-Nov-95

FOUR PONDS WITH IRRIGATION SYSTEM SERVED FROM DIP CREEK SPRING AND WELL(S)

POND EVAPORATION DATA FROM J.L. WRIGHT AND MARVIN E. JENSEN 1975

1975 EVAPOTRANSPIRATION AND CLIMATIC DATA FOR THE SILVER CREEK-

CREEK TRIANGLE BLAINE COUNTY, IDAHO FEBRUARY 1976

LAKE OR POND EVAPORATION CALCULATED USING THE KOHLER-NORDENSON-FOX PROCEDURE

NUMBER OF UNITS= 75
MAX. IRRIG. DIV PER ACRE= 9 GPM USING SPRINKLERS IRRIG. EFFICIENCY= 90 PERCENT
DIVERSION FROM TRAIL CREEK= 175 INCHES
GROUND WATER DIVERSION= 0 INCHES
DIVERSION FROM SPRING= 0 INCHES
TOTAL DIVERSION TO POND INFLOW= 175 INCHES OR 3.50 CFS
ALL DITCHES HAVE 1.5 TO 1 SIDE SLOPES TOTAL POND AREA = 1.11 ACRES

ALL DITCHES AND PONDS UNLINED <<<

SEEPAGE RATES ESTIMATED FROM LOSS MEASUREMENTS ON PONDS 25 AND 10

NUMBER OF PONDS= 30

MO.	AVG	AVG	TOTAL	PRECIP	PROJECT			EVAP-	PROJECT		
	EVAP	EVAP	MON.		I AVG	AVG	AVG	I PRECIP	I EVAP-	EVAP-	EVAP-
	AVG	AVG	EVAP	HAILEY	I EVAP	EVAP	EVAP	IN/	I PRECIP	PRECIP	PRECIP
	DAY	DAY	IN.	IN.	CFS	GPM	MIN.IN	DAY	CFS	GPM	MIN. IN.
JAN	0.56	0.022	0.68	2.67	0.002	0.80	0.09	0.00	0.000	0.00	0.00
FEB	0.91	0.036	1.00	1.83	0.003	1.30	0.15	0.00	0.000	0.00	0.00
MAR	1.43	0.056	1.75	1.22	0.005	2.05	0.23	0.02	0.001	0.62	0.07
APR	2.29	0.090	2.70	1.07	0.007	3.28	0.37	0.05	0.004	1.98	0.22
MAY	4.32	0.170	5.27	1.47	0.014	6.19	0.69	0.12	0.010	4.46	0.50
JUN	5.19	0.204	6.13	1.39	0.017	7.44	0.83	0.16	0.013	5.75	0.64
JUL	5.19	0.204	6.33	0.47	0.017	7.44	0.83	0.19	0.015	6.89	0.77
AUG	4.55	0.179	5.55	0.69	0.015	6.52	0.73	0.16	0.013	5.71	0.64
SEP	3.96	0.156	4.68	0.71	0.013	5.67	0.63	0.13	0.011	4.81	0.54
OCT	2.07	0.081	2.53	0.76	0.007	2.97	0.33	0.06	0.005	2.07	0.23
NOV	1.01	0.040	1.19	1.44	0.003	1.45	0.16	0.00	0.000	0.00	0.00
DEC	0.63	0.025	0.77	2.48	0.002	0.90	0.10	0.00	0.000	0.00	0.00
	MAX MON.		6.33	2.67	0.017	7.44	0.83	0.19	0.015	6.89	0.77
	ANNUAL TOT.		38.59								
	APR-SEP TOT.		30.67								

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POND AND IRRIGATION SYSTEM INFLOW AND OUTFLOW LOSS ESTIMATES(SUMMERTIME)

DITCH WIDTH=	1.5 DITCH DEPTH=			0.5		POND DEPTH=				1.5		SEEP-AGE	EVAP (MAX)	ACRES	IRRIG. DIV.	OUT-FLOW	TURN-OVER															
	L	BOTTOM WIDTH	AVG DEPTH	SURF. AREA	AREA	WET AREA	WET AREA	SEEP. RATE	VOL	IN-FLOW																						
											FT							FT	FT	FT^2	AC.	FT^2	AC.	FT/D	FT^3	CFS	CFS	CFS	IRRIG.	DIV.	CFS	HRS
MCCOY DITCH	5700	5	1.5	28500	0.65	33677	0.773	4.92	42750	3.5	1.91774	0.00562	0.0	0.00	1.58	3.4																
DITCH FROM DIV.	126	1.5	0.50	189	0.00	227	0.005	0.30	95	0.79	0.00079	0.00004	0.0	0.00	0.79	0.0																
POND 1	17.027	17.027	1.50	290	0.01	305	0.007	0.30	435	0.79	0.00106	0.00006	0.0	0.00	0.79	0.2																
DITCH 1-2	163	1.5	0.50	245	0.01	294	0.007	0.30	122	0.79	0.00102	0.00005	0.0	0.00	0.79	0.0																
POND 2	17.027	17.027	1.50	290	0.01	305	0.007	0.30	435	0.79	0.00106	0.00006	0.0	0.00	0.78	0.2																
DITCH 2-3	65	1.5	0.50	98	0.00	117	0.003	0.30	49	0.78	0.00041	0.00002	0.0	0.00	0.78	0.0																
POND 3	38.0734	38.0734	1.50	1450	0.03	1484	0.034	0.30	2174	0.78	0.00515	0.00029	0.0	0.00	0.78	0.8																
DITCH 3-4 (C)	76	1.5	0.50	114	0.00	137	0.003	0.30	57	0.78	0.00048	0.00002	0.0	0.00	0.78	0.0																
POND 4	38.0734	38.0734	1.50	1450	0.03	1484	0.034	0.30	2174	0.78	0.00515	0.00029	0.0	0.00	0.77	0.8																
DITCH 4-5	113	1.5	0.50	170	0.00	204	0.005	0.30	85	0.77	0.00071	0.00003	0.0	0.00	0.77	0.0																
POND 5	39.9317	39.9317	1.50	1595	0.04	1631	0.037	0.30	2392	0.77	0.00566	0.00031	0.0	0.00	0.77	0.9																
DITCH 5-8	49	1.5	0.50	74	0.00	88	0.002	0.30	37	0.77	0.00031	0.00001	0.0	0.00	0.77	0.0																
POND 8	34.0539	34.0539	1.50	1160	0.03	1191	0.027	0.30	1740	0.77	0.00413	0.00023	0.0	0.00	0.76	0.6																
DITCH 8-9	73	1.5	0.50	110	0.00	132	0.003	0.30	55	0.76	0.00046	0.00002	0.0	0.00	0.76	0.0																
POND 9	37.829	37.829	1.50	1431	0.03	1465	0.034	0.30	2147	0.76	0.00509	0.00028	0.0	0.00	0.76	0.8																
DITCH 9-12	34	1.5	0.50	51	0.00	61	0.001	0.30	26	0.38	0.00021	0.00001	0.0	0.00	0.38	0.0																
POND 12	26.5115	26.5115	1.50	703	0.02	727	0.017	0.30	1054	0.38	0.00252	0.00014	0.0	0.00	0.37	0.8																
DITCH 12-16	34	1.5	0.50	51	0.00	61	0.001	0.30	26	0.37	0.00021	0.00001	0.0	0.00	0.37	0.0																
POND 16	21.982	21.982	1.50	483	0.01	503	0.012	0.30	725	0.37	0.00175	0.00010	0.0	0.00	0.37	0.5																
DITCH 9-10	20	1.5	0.50	30	0.00	36	0.001	0.30	15	0.38	0.00013	0.00001	0.0	0.00	0.38	0.0																
POND 10	63.3869	63.3869	1.50	4018	0.09	4075	0.094	0.30	6027	0.38	0.01415	0.00079	0.0	0.00	0.36	4.4																
DITCH 10-6	167	1.5	0.50	251	0.01	301	0.007	0.30	125	0.18	0.00105	0.00005	0.0	0.00	0.18	0.2																
POND 6	29.4915	29.4915	1.50	870	0.02	897	0.021	0.30	1305	0.18	0.00311	0.00017	0.0	0.00	0.18	2.0																
DITCH 6-11	90	1.5	0.50	135	0.00	162	0.004	0.30	68	0.18	0.00056	0.00003	0.0	0.00	0.18	0.1																
POND 11	12.8499	12.8499	1.50	165	0.00	177	0.004	0.30	248	0.18	0.00061	0.00003	0.0	0.00	0.18	0.4																
DITCH 11-15	90	1.5	0.50	135	0.00	162	0.004	0.30	68	0.18	0.00056	0.00003	0.0	0.00	0.18	0.1																
DITCH 10-15	189	1.5	0.50	284	0.01	341	0.008	0.30	142	0.18	0.00118	0.00006	0.0	0.00	0.18	0.2																
POND 15	28.1196	28.1196	1.50	791	0.02	816	0.019	0.30	1186	0.36	0.00283	0.00016	0.0	0.00	0.35	0.9																
DITCH 15-14	54	1.5	0.50	81	0.00	97	0.002	0.30	41	0.18	0.00034	0.00002	0.0	0.00	0.18	0.1																
POND 14	17.5357	17.5357	1.50	308	0.01	323	0.007	0.30	461	0.18	0.00112	0.00006	0.0	0.00	0.17	0.7																
DITCH 14-13	17	1.5	0.50	26	0.00	31	0.001	0.30	13	0.17	0.00011	0.00001	0.0	0.00	0.17	0.0																
POND 13	22.9595	22.9595	1.50	527	0.01	548	0.013	0.30	791	0.17	0.00190	0.00010	0.0	0.00	0.17	1.3																
DITCH 15-17	59	1.5	0.50	89	0.00	106	0.002	0.30	44	0.18	0.00037	0.00002	0.0	0.00	0.18	0.1																
POND 17	11.48	11.48	1.50	132	0.00	142	0.003	0.30	198	0.18	0.00049	0.00003	0.0	0.00	0.18	0.3																
DITCH 17-18	25	1.5	0.50	38	0.00	45	0.001	0.30	19	0.18	0.00016	0.00001	0.0	0.00	0.17	0.0																
POND 18	21.982	21.982	1.50	483	0.01	503	0.012	0.30	725	0.17	0.00175	0.00010	0.0	0.00	0.17	1.2																
DITCH 18-21(C)	27	1.5	0.50	41	0.00	49	0.001	0.30	20	0.17	0.00017	0.00001	0.0	0.00	0.17	0.0																
POND 21	35.6922	35.6922	1.50	1274	0.03	1306	0.030	0.30	1911	0.17	0.00454	0.00025	0.0	0.00	0.17	3.1																

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DITCH 21-20	158	1.5	0.50	237	0.01	285	0.007	0.30	119	0.17	0.00099	0.00005	0.0	0.00	0.17	0.2
DITCH 13-OUT	220	1.5	0.50	330	0.01	397	0.009	0.30	165	0.17	0.00138	0.00007	0.0	0.00	0.17	0.3
DITCH 16-20	135	1.5	0.50	203	0.00	243	0.006	0.30	101	0.37	0.00085	0.00004	0.0	0.00	0.37	0.1
POND 20	45.9192	45.9192	1.50	2109	0.05	2150	0.049	0.30	3163	0.71	0.00747	0.00042	0.0	0.00	0.70	1.2
DITCH 20-OUT	106	1.5	0.50	159	0.00	191	0.004	0.30	80	0.70	0.00066	0.00003	0.0	0.00	0.70	0.0
DITCH TO 23	97	1.5	0.50	146	0.00	175	0.004	0.30	73	0.70	0.00061	0.00003	0.0	0.00	0.70	0.0
POND 23	16.1966	16.1966	1.50	262	0.01	277	0.006	0.30	393	0.70	0.00096	0.00005	0.0	0.00	0.70	0.2
DITCH TO 7	684	1.5	0.50	1026	0.02	1233	0.028	0.30	513	0.79	0.00428	0.00020	0.0	0.00	0.78	0.2
POND 7	53.8439	53.8439	1.50	2899	0.07	2948	0.068	0.30	4349	0.78	0.01024	0.00057	0.0	0.00	0.77	1.5
DITCH 7-19	345	1.5	0.50	518	0.01	622	0.014	0.30	259	0.77	0.00216	0.00010	0.0	0.00	0.77	0.1
SPRING-19	446	1.5	0.50	669	0.02	804	0.018	0.30	335	0.00	0.00279	0.00013	0.0	0.00	0.00	
POND 19	36.3022	36.3022	1.50	1318	0.03	1351	0.031	0.30	1977	0.77	0.00469	0.00026	0.0	0.00	0.76	0.7
DITCH 19-22	54	1.5	0.50	81	0.00	97	0.002	0.30	41	0.76	0.00034	0.00002	0.0	0.00	0.76	0.0
POND 22	24.7992	24.7992	1.50	615	0.01	638	0.015	0.30	923	0.76	0.00221	0.00012	0.0	0.00	0.76	0.3
DITCH 22-24	86	1.5	0.50	129	0.00	155	0.004	0.30	65	0.76	0.00054	0.00003	0.0	0.00	0.76	0.0
POND 24	26.7475	26.7475	1.50	715	0.02	740	0.017	0.30	1073	0.76	0.00257	0.00014	0.0	0.00	0.76	0.4
DITCH 24-27	25	1.5	0.50	38	0.00	45	0.001	0.30	19	0.38	0.00016	0.00001	0.0	0.00	0.38	0.0
POND 27	26.2981	26.2981	1.50	692	0.02	715	0.016	0.30	1037	0.38	0.00248	0.00014	0.0	0.00	0.38	0.8
DITCH 27-28	16	1.5	0.50	24	0.00	29	0.001	0.30	12	0.38	0.00010	0.00000	0.0	0.00	0.38	0.0
POND 28	46.8402	46.8402	1.50	2194	0.05	2237	0.051	0.30	3291	0.38	0.00777	0.00043	0.0	0.00	0.37	2.4
DITCH 28-26	48	1.5	0.50	72	0.00	87	0.002	0.30	36	0.37	0.00030	0.00001	0.0	0.00	0.37	0.0
POND 26	43.6786	43.6786	1.50	1908	0.04	1947	0.045	0.30	2862	0.37	0.00676	0.00038	0.0	0.00	0.36	2.2
DITCH 24-29	75	1.5	0.50	113	0.00	135	0.003	0.30	56	0.38	0.00047	0.00002	0.0	0.00	0.38	0.0
POND 29	54.5983	54.5983	1.50	2981	0.07	3031	0.070	0.30	4471	0.38	0.01052	0.00059	0.0	0.00	0.37	3.3
DITCH 29-30	191	1.5	0.50	287	0.01	344	0.008	0.30	143	0.37	0.00120	0.00006	0.0	0.00	0.37	0.1
POND 30	39.0674	39.0674	1.50	1526	0.04	1562	0.036	0.30	2289	0.37	0.00542	0.00030	0.0	0.00	0.36	1.7
DITCH 30-25	442	1.5	0.50	663	0.02	797	0.018	0.30	332	0.36	0.00277	0.00013	0.0	0.00	0.36	0.3
DITCH 26-25	90	1.5	0.50	135	0.00	162	0.004	0.30	68	0.36	0.00056	0.00003	0.0	0.00	0.36	0.1
DITCH 23-25	165	1.5	0.50	248	0.01	297	0.007	0.30	124	0.70	0.00103	0.00005	0.0	0.00	0.70	0.0
POND 25	116.283	116.283	6.00	13522	0.31	13944	0.320	0.30	81130	1.41	0.04842	0.00266	66.0	1.32	0.04	15.9
TOT. DITCH	10554			35781	0.821	42428	0.974		46391		1.948	0.0071				
TOT. PONDS				48158	1.106	49424	1.135		133085		0.1716	0.0095				
TOTAL				83939	1.927	91852	2.109		179475		2.120	0.0165	66.0	1.32		

SYSTEM SEEPAGE LOSS=	2.120	CFS=	106.0	MINERS IN.=	951	GPM
SYSTEM DESIGN EVAP LOSS=	0.017	CFS=	0.8	MINERS IN.=	7	GPM
SYSTEM IRRIG. REQ'T=	1.324	CFS=	66.2	MINERS IN.=	594	GPM
SYSTEM WATER REQ'T=	3.460	CFS=	173.0	MINERS IN.=	1553	GPM
SYSTEM DIVERSION AVAILABLE=	3.500	CFS=	175.0	MINERS IN.=	1571	GPM
SYSTEM RETURN FLOW	0.040	CFS=	2.0	MINERS IN.=	18	GPM

MAX POND TURNOVER TIME- ALL PONDS=	61.7	HOURS	TOTAL WATER REPLACEMENT
MAX TURNOVER TIME WITHOUT IRRIGATION=	33.3	HOURS	PUMPING FOR IRRIGATION OUT OF POND 25

SEP 29 2019
SCANNED

SYSTEM IRRIGATION SEASON POND & DITCH WATER USE

IRRIGATION SEASON LENGTH 180.0 DAYS
AVERAGE PROJECT SEEPAGE 2.120 CFS
IRRIG SEASON PROJECT SEEPAGE 756.2 ACRE FEET
IRRIG. SEASON EVAP. (CONSUMPTIVE USE) 4.9 ACRE FEET

SYSTEM IRRIGATION SEASON DISCHARGE REQ'T

POND & DITCH SEEPAGE FOR 1.93 ACRES= 951.3 GPM
MAX. EVAPORATION LOSS 7.4 GPM
IRRIG. OF 66 ACRES FROM PONDS 594.0 GPM
TOTAL IRRIGATION SEASON DISCHARGE REQ'T 1552.8 GPM

PROJECT

SYSTEM IRRIGATED ACREAGE AND ESTIMATED MAXIMUM ET

VEGETATION	ACRES	CROP EST COEFF.	ET IN/DAY	MAX USE AF/DAY	MAX USE GPD
TURF	39.60	0.80	0.24	0.80	260427
SHRUBS	26.40	0.75	0.23	0.50	162767
TOTAL	66.0			1.30	423194
WEIGHTED MAX DAY CROP COEFF.		0.78			
SEASONAL AVG CROP COEFF		0.52	(ALLEN & BROCKWAY, 1983)		
SEASONAL REFERENCE ET		49.84	INCHES		
SEASONAL WEIGHTED ET=		25.92	INCHES		
TOTAL SEASON ET		142.5	ACRE FEET		

SYSTEM NON-IRRIGATION SEASON POND WATER USE ESTIMATE

NOT OPERATED DURING NON-IRRIGATION SEASON

SYSTEM NON-IRRIGATION SEASON DISCHARGE REQ'T(PONDS FULL)

NOT OPERATED DURING NON-IRRIGATION SEASON

MAX REF ET = 0.30276 INCHES/DAY= 7.69 MM/DAY(ALLEN & BROCKWAY,1983)
SEAS. REF ET= 49.84 INCHES/YEAR= 1266 MM/DAY(ALLEN & BROCKWAY,1983)

PROJECT

IRRIGATION C,U. WATER BUDGET		PROJECT
CROP CONSUMPTIVE USE		
POND CONSUMPTIVE USE		4.9
LANDSCAPING CONSUMPTIVE USE		142.5
TOTAL		147.5

SCANNED
SEP 29 2010

WEYYAKIN SUBDIVISION

WATER REQUIREMENTS AND USE

ESTIMATED POND EVAPORATION AND SEEPAGE

C.E. BROCKWAY P.E and C.G. BROCKWAY 19-Nov-95

FOUR PONDS WITH IRRIGATION SYSTEM SERVED FROM DIP CREEK SPRING AND WELL(S)

POND EVAPORATION DATA FROM J.L. WRIGHT AND MARVIN E. JENSEN 1975

1975 EVAPOTRANSPIRATION AND CLIMATIC DATA FOR THE SILVER CREEK-

CREEK TRIANGLE BLAINE COUNTY, IDAHO FEBRUARY 1976

LAKE OR POND EVAPORATION CALCULATED USING THE KOHLER-NORDENSON-FOX PROCEDURE

NUMBER OF UNITS= 75
MAX. IRRIG. DIV PER ACRE= 9 GPM USING SPRINKLERS IRRIG. EFFICIENCY= 90 PERCENT
DIVERSION FROM TRAIL CREEK= 250 INCHES
GROUND WATER DIVERSION= 0 INCHES
DIVERSION FROM SPRING= 0 INCHES
TOTAL DIVERSION TO POND INFLOW= 250 INCHES OR 5.00 CFS
ALL DITCHES HAVE 1.5 TO 1 SIDE SLOPES TOTAL POND AREA = 1.11 ACRES
ALL DITCHES AND PONDS UNLINED <<<

SEEPAGE RATES ESTIMATED FROM LOSS MEASUREMENTS ON PONDS 25 AND 10

NUMBER OF PONDS= 30

MO.	AVG	AVG	TOTAL	PRECIP	PROJECT			EVAP-	PROJECT	EVAP-	EVAP-
	EVAP	EVAP	MON.	HAILEY	AVG	AVG	AVG	PRECIP		PRECIP	PRECIP
	AVG	AVG	EVAP		EVAP	EVAP	EVAP	IN/		PRECIP	PRECIP
	DAY	DAY	IN.		CFS	GPM	MIN.IN	DAY		CFS	GPM
	MM	IN		IN.							MIN. IN.
JAN	0.56	0.022	0.68	2.67	0.002	0.80	0.09	0.00	0.000	0.00	0.00
FEB	0.91	0.036	1.00	1.83	0.003	1.30	0.15	0.00	0.000	0.00	0.00
MAR	1.43	0.056	1.75	1.22	0.005	2.05	0.23	0.02	0.001	0.62	0.07
APR	2.29	0.090	2.70	1.07	0.007	3.28	0.37	0.05	0.004	1.98	0.22
MAY	4.32	0.170	5.27	1.47	0.014	6.19	0.69	0.12	0.010	4.46	0.50
JUN	5.19	0.204	6.13	1.39	0.017	7.44	0.83	0.16	0.013	5.75	0.64
JUL	5.19	0.204	6.33	0.47	0.017	7.44	0.83	0.19	0.015	6.89	0.77
AUG	4.55	0.179	5.55	0.69	0.015	6.52	0.73	0.16	0.013	5.71	0.64
SEP	3.96	0.156	4.68	0.71	0.013	5.67	0.63	0.13	0.011	4.81	0.54
OCT	2.07	0.081	2.53	0.76	0.007	2.97	0.33	0.06	0.005	2.07	0.23
NOV	1.01	0.040	1.19	1.44	0.003	1.45	0.16	0.00	0.000	0.00	0.00
DEC	0.63	0.025	0.77	2.48	0.002	0.90	0.10	0.00	0.000	0.00	0.00
	MAX MON.		6.33	2.67	0.017	7.44	0.83	0.19	0.015	6.89	0.77
	ANNUAL TOT.		38.59								
	APR-SEP TOT.		30.67								

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SEP 29 2013

POND AND IRRIGATION SYSTEM INFLOW AND OUTFLOW LOSS ESTIMATES(SUMMERTIME)

DITCH WIDTH=	1.5 DITCH DEPTH=			0.5		POND DEPTH=				1.5		ACRES	IRRIG.	OUT- FLOW	TURN- OVER													
	L	BOTTOM WIDTH	AVG DEPTH	SURF. AREA	AREA	WET AREA	WET AREA	SEEP. RATE	VOL	IN- FLOW	SEEP- AGE					EVAP (MAX)												
																	FT	FT	FT	FT^2	AC.	FT^2	AC.	FT/D	FT^3	CFS	CFS	CFS
MCCOY DITCH	5700	5	1.5	28500	0.65	33677	0.773	4.92	42750	5	1.91774	0.00562	0.0	0.00	3.08	2.4												
DITCH FROM DIV.	126	1.5	0.50	189	0.00	227	0.005	0.30	95	1.54	0.00079	0.00004	0.0	0.00	1.54	0.0												
POND 1	17.027	17.027	1.50	290	0.01	305	0.007	0.30	435	1.54	0.00106	0.00006	0.0	0.00	1.54	0.1												
DITCH 1-2	163	1.5	0.50	245	0.01	294	0.007	0.30	122	1.54	0.00102	0.00005	0.0	0.00	1.54	0.0												
POND 2	17.027	17.027	1.50	290	0.01	305	0.007	0.30	435	1.54	0.00106	0.00006	0.0	0.00	1.53	0.1												
DITCH 2-3	65	1.5	0.50	98	0.00	117	0.003	0.30	49	1.53	0.00041	0.00002	0.0	0.00	1.53	0.0												
POND 3	38.0734	38.0734	1.50	1450	0.03	1484	0.034	0.30	2174	1.53	0.00515	0.00029	0.0	0.00	1.53	0.4												
DITCH 3-4 (C)	76	1.5	0.50	114	0.00	137	0.003	0.30	57	1.53	0.00048	0.00002	0.0	0.00	1.53	0.0												
POND 4	38.0734	38.0734	1.50	1450	0.03	1484	0.034	0.30	2174	1.53	0.00515	0.00029	0.0	0.00	1.52	0.4												
DITCH 4-5	113	1.5	0.50	170	0.00	204	0.005	0.30	85	1.52	0.00071	0.00003	0.0	0.00	1.52	0.0												
POND 5	39.9317	39.9317	1.50	1595	0.04	1631	0.037	0.30	2392	1.52	0.00566	0.00031	0.0	0.00	1.52	0.4												
DITCH 5-8	49	1.5	0.50	74	0.00	88	0.002	0.30	37	1.52	0.00031	0.00001	0.0	0.00	1.52	0.0												
POND 8	34.0539	34.0539	1.50	1160	0.03	1191	0.027	0.30	1740	1.52	0.00413	0.00023	0.0	0.00	1.51	0.3												
DITCH 8-9	73	1.5	0.50	110	0.00	132	0.003	0.30	55	1.51	0.00046	0.00002	0.0	0.00	1.51	0.0												
POND 9	37.829	37.829	1.50	1431	0.03	1465	0.034	0.30	2147	1.51	0.00509	0.00028	0.0	0.00	1.51	0.4												
DITCH 9-12	34	1.5	0.50	51	0.00	61	0.001	0.30	26	0.75	0.00021	0.00001	0.0	0.00	0.75	0.0												
POND 12	26.5115	26.5115	1.50	703	0.02	727	0.017	0.30	1054	0.75	0.00252	0.00014	0.0	0.00	0.75	0.4												
DITCH 12-16	34	1.5	0.50	51	0.00	61	0.001	0.30	26	0.75	0.00021	0.00001	0.0	0.00	0.75	0.0												
POND 16	21.982	21.982	1.50	483	0.01	503	0.012	0.30	725	0.75	0.00175	0.00010	0.0	0.00	0.75	0.3												
DITCH 9-10	20	1.5	0.50	30	0.00	36	0.001	0.30	15	0.75	0.00013	0.00001	0.0	0.00	0.75	0.0												
POND 10	63.3869	63.3869	1.50	4018	0.09	4075	0.094	0.30	6027	0.75	0.01415	0.00079	0.0	0.00	0.74	2.2												
DITCH 10-6	167	1.5	0.50	251	0.01	301	0.007	0.30	125	0.37	0.00105	0.00005	0.0	0.00	0.37	0.1												
POND 6	29.4915	29.4915	1.50	870	0.02	897	0.021	0.30	1305	0.37	0.00311	0.00017	0.0	0.00	0.36	1.0												
DITCH 6-11	90	1.5	0.50	135	0.00	162	0.004	0.30	68	0.36	0.00056	0.00003	0.0	0.00	0.36	0.1												
POND 11	12.8499	12.8499	1.50	165	0.00	177	0.004	0.30	248	0.36	0.00061	0.00003	0.0	0.00	0.36	0.2												
DITCH 11-15	90	1.5	0.50	135	0.00	162	0.004	0.30	68	0.36	0.00056	0.00003	0.0	0.00	0.36	0.1												
DITCH 10-15	189	1.5	0.50	284	0.01	341	0.008	0.30	142	0.37	0.00118	0.00006	0.0	0.00	0.37	0.1												
POND 15	28.1196	28.1196	1.50	791	0.02	816	0.019	0.30	1186	0.73	0.00283	0.00016	0.0	0.00	0.73	0.5												
DITCH 15-14	54	1.5	0.50	81	0.00	97	0.002	0.30	41	0.36	0.00034	0.00002	0.0	0.00	0.36	0.0												
POND 14	17.5357	17.5357	1.50	308	0.01	323	0.007	0.30	461	0.36	0.00112	0.00006	0.0	0.00	0.36	0.4												
DITCH 14-13	17	1.5	0.50	26	0.00	31	0.001	0.30	13	0.36	0.00011	0.00001	0.0	0.00	0.36	0.0												
POND 13	22.9595	22.9595	1.50	527	0.01	548	0.013	0.30	791	0.36	0.00190	0.00010	0.0	0.00	0.36	0.6												
DITCH 15-17	59	1.5	0.50	89	0.00	106	0.002	0.30	44	0.36	0.00037	0.00002	0.0	0.00	0.36	0.0												
POND 17	11.48	11.48	1.50	132	0.00	142	0.003	0.30	198	0.36	0.00049	0.00003	0.0	0.00	0.36	0.2												
DITCH 17-18	25	1.5	0.50	38	0.00	45	0.001	0.30	19	0.36	0.00016	0.00001	0.0	0.00	0.36	0.0												
POND 18	21.982	21.982	1.50	483	0.01	503	0.012	0.30	725	0.36	0.00175	0.00010	0.0	0.00	0.36	0.6												
DITCH 18-21(C)	27	1.5	0.50	41	0.00	49	0.001	0.30	20	0.36	0.00017	0.00001	0.0	0.00	0.36	0.0												
POND 21	35.6922	35.6922	1.50	1274	0.03	1306	0.030	0.30	1911	0.36	0.00454	0.00025	0.0	0.00	0.36	1.5												

SEP 29 2014
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DITCH 21-20	158	1.5	0.50	237	0.01	285	0.007	0.30	119	0.36	0.00099	0.00005	0.0	0.00	0.35	0.1
DITCH 13-OUT	220	1.5	0.50	330	0.01	397	0.009	0.30	165	0.36	0.00138	0.00007	0.0	0.00	0.36	0.1
DITCH 16-20	135	1.5	0.50	203	0.00	243	0.006	0.30	101	0.75	0.00085	0.00004	0.0	0.00	0.75	0.0
POND 20	45.9192	45.9192	1.50	2109	0.05	2150	0.049	0.30	3163	1.46	0.00747	0.00042	0.0	0.00	1.45	0.6
DITCH 20-OUT	106	1.5	0.50	159	0.00	191	0.004	0.30	80	1.45	0.00066	0.00003	0.0	0.00	1.45	0.0
DITCH TO 23	97	1.5	0.50	146	0.00	175	0.004	0.30	73	1.45	0.00061	0.00003	0.0	0.00	1.45	0.0
POND 23	16.1966	16.1966	1.50	262	0.01	277	0.006	0.30	393	1.45	0.00096	0.00005	0.0	0.00	1.45	0.1
DITCH TO 7	684	1.5	0.50	1026	0.02	1233	0.028	0.30	513	1.54	0.00428	0.00020	0.0	0.00	1.53	0.1
POND 7	53.8439	53.8439	1.50	2899	0.07	2948	0.068	0.30	4349	1.53	0.01024	0.00057	0.0	0.00	1.52	0.8
DITCH 7-19	345	1.5	0.50	518	0.01	622	0.014	0.30	259	1.52	0.00216	0.00010	0.0	0.00	1.52	0.0
SPRING-19	446	1.5	0.50	669	0.02	804	0.018	0.30	335	0.00	0.00279	0.00013	0.0	0.00	0.00	
POND 19	36.3022	36.3022	1.50	1318	0.03	1351	0.031	0.30	1977	1.52	0.00469	0.00026	0.0	0.00	1.51	0.4
DITCH 19-22	54	1.5	0.50	81	0.00	97	0.002	0.30	41	1.51	0.00034	0.00002	0.0	0.00	1.51	0.0
POND 22	24.7992	24.7992	1.50	615	0.01	638	0.015	0.30	923	1.51	0.00221	0.00012	0.0	0.00	1.51	0.2
DITCH 22-24	86	1.5	0.50	129	0.00	155	0.004	0.30	65	1.51	0.00054	0.00003	0.0	0.00	1.51	0.0
POND 24	26.7475	26.7475	1.50	715	0.02	740	0.017	0.30	1073	1.51	0.00257	0.00014	0.0	0.00	1.51	0.2
DITCH 24-27	25	1.5	0.50	38	0.00	45	0.001	0.30	19	0.75	0.00016	0.00001	0.0	0.00	0.75	0.0
POND 27	26.2981	26.2981	1.50	692	0.02	715	0.016	0.30	1037	0.75	0.00248	0.00014	0.0	0.00	0.75	0.4
DITCH 27-28	16	1.5	0.50	24	0.00	29	0.001	0.30	12	0.75	0.00010	0.00000	0.0	0.00	0.75	0.0
POND 28	46.8402	46.8402	1.50	2194	0.05	2237	0.051	0.30	3291	0.75	0.00777	0.00043	0.0	0.00	0.74	1.2
DITCH 28-26	48	1.5	0.50	72	0.00	87	0.002	0.30	36	0.74	0.00030	0.00001	0.0	0.00	0.74	0.0
POND 26	43.6786	43.6786	1.50	1908	0.04	1947	0.045	0.30	2862	0.74	0.00676	0.00038	0.0	0.00	0.73	1.1
DITCH 24-29	75	1.5	0.50	113	0.00	135	0.003	0.30	56	0.75	0.00047	0.00002	0.0	0.00	0.75	0.0
POND 29	54.5983	54.5983	1.50	2981	0.07	3031	0.070	0.30	4471	0.75	0.01052	0.00059	0.0	0.00	0.74	1.6
DITCH 29-30	191	1.5	0.50	287	0.01	344	0.008	0.30	143	0.74	0.00120	0.00006	0.0	0.00	0.74	0.1
POND 30	39.0674	39.0674	1.50	1526	0.04	1562	0.036	0.30	2289	0.74	0.00542	0.00030	0.0	0.00	0.73	0.9
DITCH 30-25	442	1.5	0.50	663	0.02	797	0.018	0.30	332	0.73	0.00277	0.00013	0.0	0.00	0.73	0.1
DITCH 26-25	90	1.5	0.50	135	0.00	162	0.004	0.30	68	0.73	0.00056	0.00003	0.0	0.00	0.73	0.0
DITCH 23-25	165	1.5	0.50	248	0.01	297	0.007	0.30	124	1.45	0.00103	0.00005	0.0	0.00	1.45	0.0
POND 25	116.283	116.283	6.00	13522	0.31	13944	0.320	0.30	81130	2.91	0.04842	0.00266	66.0	1.32	1.54	7.7
TOT. DITCH	10554			35781	0.821	42428	0.974		46391		1.948	0.0071				
TOT. PONDS				48158	1.106	49424	1.135		133085		0.1716	0.0095				
TOTAL				83939	1.927	91852	2.109		179475		2.120	0.0165	66.0	1.32		

SYSTEM SEEPAGE LOSS=	2.120	CFS=	106.0	MINERS IN.=	951	GPM
SYSTEM DESIGN EVAP LOSS=	0.017	CFS=	0.8	MINERS IN.=	7	GPM
SYSTEM IRRIG. REQ'T=	1.324	CFS=	66.2	MINERS IN.=	594	GPM
SYSTEM WATER REQ'T=	3.460	CFS=	173.0	MINERS IN.=	1553	GPM
SYSTEM DIVERSION AVAILABLE=	5.000	CFS=	250.0	MINERS IN.=	2244	GPM
SYSTEM RETURN FLOW	1.540	CFS=	77.0	MINERS IN.=	691	GPM

MAX POND TURNOVER TIME- ALL PONDS=
21.6 HOURS
TOTAL WATER REPLACEMENT

MAX TURNOVER TIME WITHOUT IRRIGATION=
16.6 HOURS
PUMPING FOR IRRIGATION OUT OF POND 25

SYSTEM IRRIGATION SEASON POND & DITCH WATER USE

IRRIGATION SEASON LENGTH 180.0 DAYS
AVERAGE PROJECT SEEPAGE 2.120 CFS
IRRIG SEASON PROJECT SEEPAGE 756.2 ACRE FEET
IRRIG. SEASON EVAP. (CONSUMPTIVE USE) 4.9 ACRE FEET

SYSTEM IRRIGATION SEASON DISCHARGE REQ'T

POND & DITCH SEEPAGE FOR 1.93 ACRES= 951.3 GPM
MAX. EVAPORATION LOSS 7.4 GPM
IRRIG. OF 66 ACRES FROM PONDS 594.0 GPM
TOTAL IRRIGATION SEASON DISCHARGE REQ'T 1552.8 GPM

PROJECT

SYSTEM IRRIGATED ACREAGE AND ESTIMATED MAXIMUM ET

VEGETATION	ACRES	CROP COEFF.	ET IN/DAY	MAX USE AF/DAY	MAX USE GPD
EST					
TURF	39.60	0.80	0.24	0.80	260427
SHRUBS	26.40	0.75	0.23	0.50	162767
TOTAL	66.0			1.30	423194
WEIGHTED MAX DAY CROP COEFF.		0.78			
SEASONAL AVG CROP COEFF		0.52	(ALLEN & BROCKWAY, 1983)		
SEASONAL REFERENCE ET		49.84	INCHES		
SEASONAL WEIGHTED ET=		25.92	INCHES		
TOTAL SEASON ET		142.5	ACRE FEET		

SYSTEM NON-IRRIGATION SEASON POND WATER USE ESTIMATE

NOT OPERATED DURING NON-IRRIGATION SEASON

SYSTEM NON-IRRIGATION SEASON DISCHARGE REQ'T(PONDS FULL)

NOT OPERATED DURING NON-IRRIGATION SEASON

MAX REF ET = 0.30276 INCHES/DAY= 7.69 MM/DAY(ALLEN & BROCKWAY,1983)
SEAS. REF ET= 49.84 INCHES/YEAR= 1266 MM/DAY(ALLEN & BROCKWAY,1983)

PROJECT

IRRIGATION C,U. WATER BUDGET

CROP CONSUMPTIVE USE

POND CONSUMPTIVE USE

LANDSCAPING CONSUMPTIVE USE

TOTAL

PROJECT

4.9

142.5

147.5

SCANED
SEP 29 2017

WEYYAKIN SUBDIVISION

WATER REQUIREMENTS AND USE

ESTIMATED POND EVAPORATION AND SEEPAGE

C.E. BROCKWAY P.E and C.G. BROCKWAY

19-Nov-95

FOUR PONDS WITH IRRIGATION SYSTEM SERVED FROM DIP CREEK SPRING AND WELL(S)

POND EVAPORATION DATA FROM J.L. WRIGHT AND MARVIN E. JENSEN 1975

1975 EVAPOTRANSPIRATION AND CLIMATIC DATA FOR THE SILVER CREEK-

CREEK TRIANGLE BLAINE COUNTY, IDAHO FEBRUARY 1976

LAKE OR POND EVAPORATION CALCULATED USING THE

KOHLER-NORDENSON-FOX PROCEDURE

NUMBER OF UNITS= 75

MAX. IRRIG. DIV PER ACRE= 9 GPM USING SPRINKLERS IRRIG. EFFICIENCY= 90 PERCENT

DIVERSION FROM TRAIL CREEK= 350 INCHES

GROUND WATER DIVERSION= 0 INCHES

DIVERSION FROM SPRING= 0 INCHES

TOTAL DIVERSION TO POND INFLOW= 350 INCHES OR 7.00 CFS

ALL DITCHES HAVE 1.5 TO 1 SIDE SLOPES TOTAL POND AREA = 1.11 ACRES

ALL DITCHES AND PONDS UNLINED

<<<

SEEPAGE RATES ESTIMATED FROM LOSS MEASUREMENTS ON PONDS 25 AND 10

NUMBER OF PONDS= 30

	AVG EVAP AVG DAY MM	AVG EVAP AVG DAY IN	TOTAL MON. EVAP IN.	PRECIP HAILEY IN.	PROJECT I AVG I EVAP CFS	PROJECT AVG EVAP GPM	PROJECT AVG EVAP MIN.IN	I EVAP- I PRECIP IN/ DAY	I I EVAP- I PRECIP CFS	PROJECT EVAP- PRECIP GPM	PROJECT EVAP- PRECIP MIN. IN.
MO.											
JAN	0.56	0.022	0.68	2.67	0.002	0.80	0.09	0.00	0.000	0.00	0.00
FEB	0.91	0.036	1.00	1.83	0.003	1.30	0.15	0.00	0.000	0.00	0.00
MAR	1.43	0.056	1.75	1.22	0.005	2.05	0.23	0.02	0.001	0.62	0.07
APR	2.29	0.090	2.70	1.07	0.007	3.28	0.37	0.05	0.004	1.98	0.22
MAY	4.32	0.170	5.27	1.47	0.014	6.19	0.69	0.12	0.010	4.46	0.50
JUN	5.19	0.204	6.13	1.39	0.017	7.44	0.83	0.16	0.013	5.75	0.64
JUL	5.19	0.204	6.33	0.47	0.017	7.44	0.83	0.19	0.015	6.89	0.77
AUG	4.55	0.179	5.55	0.69	0.015	6.52	0.73	0.16	0.013	5.71	0.64
SEP	3.96	0.156	4.68	0.71	0.013	5.67	0.63	0.13	0.011	4.81	0.54
OCT	2.07	0.081	2.53	0.76	0.007	2.97	0.33	0.06	0.005	2.07	0.23
NOV	1.01	0.040	1.19	1.44	0.003	1.45	0.16	0.00	0.000	0.00	0.00
DEC	0.63	0.025	0.77	2.48	0.002	0.90	0.10	0.00	0.000	0.00	0.00
MAX MON.			6.33	2.67	0.017	7.44	0.83	0.19	0.015	6.89	0.77
ANNUAL TOT.			38.59								
APR-SEP TOT.			30.67								

SCANNED
SEP 29 2019

POND AND IRRIGATION SYSTEM INFLOW AND OUTFLOW LOSS ESTIMATES(SUMMERTIME)

DITCH WIDTH=	1.5 DITCH DEPTH=			0.5		POND DEPTH=				1.5		ACRES IRRIG.	IRRIG. DIV.	OUT-FLOW CFS	TURN-OVER HRS	
	L FT	BOTTOM WIDTH FT	AVG DEPTH FT	SURF. AREA FT^2	AREA AC.	WET AREA FT^2	WET AREA AC.	SEEP. RATE FT/D	VOL FT^3	IN-FLOW CFS	SEEP-AGE CFS					EVAP (MAX) CFS
MCCOY DITCH	5700	5	1.5	28500	0.65	33677	0.773	4.92	42750	7	1.91774	0.00562	0.0	0.00	5.08	1.7
DITCH FROM DIV.	126	1.5	0.50	189	0.00	227	0.005	0.30	95	2.54	0.00079	0.00004	0.0	0.00	2.54	0.0
POND 1	17.027	17.027	1.50	290	0.01	305	0.007	0.30	435	2.54	0.00106	0.00006	0.0	0.00	2.54	0.0
DITCH 1-2	163	1.5	0.50	245	0.01	294	0.007	0.30	122	2.54	0.00102	0.00005	0.0	0.00	2.54	0.0
POND 2	17.027	17.027	1.50	290	0.01	305	0.007	0.30	435	2.54	0.00106	0.00006	0.0	0.00	2.53	0.0
DITCH 2-3	65	1.5	0.50	98	0.00	117	0.003	0.30	49	2.53	0.00041	0.00002	0.0	0.00	2.53	0.0
POND 3	38.0734	38.0734	1.50	1450	0.03	1484	0.034	0.30	2174	2.53	0.00515	0.00029	0.0	0.00	2.53	0.2
DITCH 3-4 (C)	76	1.5	0.50	114	0.00	137	0.003	0.30	57	2.53	0.00048	0.00002	0.0	0.00	2.53	0.0
POND 4	38.0734	38.0734	1.50	1450	0.03	1484	0.034	0.30	2174	2.53	0.00515	0.00029	0.0	0.00	2.52	0.2
DITCH 4-5	113	1.5	0.50	170	0.00	204	0.005	0.30	85	2.52	0.00071	0.00003	0.0	0.00	2.52	0.0
POND 5	39.9317	39.9317	1.50	1595	0.04	1631	0.037	0.30	2392	2.52	0.00566	0.00031	0.0	0.00	2.52	0.3
DITCH 5-8	49	1.5	0.50	74	0.00	88	0.002	0.30	37	2.52	0.00031	0.00001	0.0	0.00	2.52	0.0
POND 8	34.0539	34.0539	1.50	1160	0.03	1191	0.027	0.30	1740	2.52	0.00413	0.00023	0.0	0.00	2.51	0.2
DITCH 8-9	73	1.5	0.50	110	0.00	132	0.003	0.30	55	2.51	0.00046	0.00002	0.0	0.00	2.51	0.0
POND 9	37.829	37.829	1.50	1431	0.03	1465	0.034	0.30	2147	2.51	0.00509	0.00028	0.0	0.00	2.51	0.2
DITCH 9-12	34	1.5	0.50	51	0.00	61	0.001	0.30	26	1.25	0.00021	0.00001	0.0	0.00	1.25	0.0
POND 12	26.5115	26.5115	1.50	703	0.02	727	0.017	0.30	1054	1.25	0.00252	0.00014	0.0	0.00	1.25	0.2
DITCH 12-16	34	1.5	0.50	51	0.00	61	0.001	0.30	26	1.25	0.00021	0.00001	0.0	0.00	1.25	0.0
POND 16	21.982	21.982	1.50	483	0.01	503	0.012	0.30	725	1.25	0.00175	0.00010	0.0	0.00	1.25	0.2
DITCH 9-10	20	1.5	0.50	30	0.00	36	0.001	0.30	15	1.25	0.00013	0.00001	0.0	0.00	1.25	0.0
POND 10	63.3869	63.3869	1.50	4018	0.09	4075	0.094	0.30	6027	1.25	0.01415	0.00079	0.0	0.00	1.24	1.3
DITCH 10-6	167	1.5	0.50	251	0.01	301	0.007	0.30	125	0.62	0.00105	0.00005	0.0	0.00	0.62	0.1
POND 6	29.4915	29.4915	1.50	870	0.02	897	0.021	0.30	1305	0.62	0.00311	0.00017	0.0	0.00	0.61	0.6
DITCH 6-11	90	1.5	0.50	135	0.00	162	0.004	0.30	68	0.61	0.00056	0.00003	0.0	0.00	0.61	0.0
POND 11	12.8499	12.8499	1.50	165	0.00	177	0.004	0.30	248	0.61	0.00061	0.00003	0.0	0.00	0.61	0.1
DITCH 11-15	90	1.5	0.50	135	0.00	162	0.004	0.30	68	0.61	0.00056	0.00003	0.0	0.00	0.61	0.0
DITCH 10-15	189	1.5	0.50	284	0.01	341	0.008	0.30	142	0.62	0.00118	0.00006	0.0	0.00	0.62	0.1
POND 15	28.1196	28.1196	1.50	791	0.02	816	0.019	0.30	1186	1.23	0.00283	0.00016	0.0	0.00	1.23	0.3
DITCH 15-14	54	1.5	0.50	81	0.00	97	0.002	0.30	41	0.61	0.00034	0.00002	0.0	0.00	0.61	0.0
POND 14	17.5357	17.5357	1.50	308	0.01	323	0.007	0.30	461	0.61	0.00112	0.00006	0.0	0.00	0.61	0.2
DITCH 14-13	17	1.5	0.50	26	0.00	31	0.001	0.30	13	0.61	0.00011	0.00001	0.0	0.00	0.61	0.0
POND 13	22.9595	22.9595	1.50	527	0.01	548	0.013	0.30	791	0.61	0.00190	0.00010	0.0	0.00	0.61	0.4
DITCH 15-17	59	1.5	0.50	89	0.00	106	0.002	0.30	44	0.61	0.00037	0.00002	0.0	0.00	0.61	0.0
POND 17	11.48	11.48	1.50	132	0.00	142	0.003	0.30	198	0.61	0.00049	0.00003	0.0	0.00	0.61	0.1
DITCH 17-18	25	1.5	0.50	38	0.00	45	0.001	0.30	19	0.61	0.00016	0.00001	0.0	0.00	0.61	0.0
POND 18	21.982	21.982	1.50	483	0.01	503	0.012	0.30	725	0.61	0.00175	0.00010	0.0	0.00	0.61	0.3
DITCH 18-21(C)	27	1.5	0.50	41	0.00	49	0.001	0.30	20	0.61	0.00017	0.00001	0.0	0.00	0.61	0.0
POND 21	35.6922	35.6922	1.50	1274	0.03	1306	0.030	0.30	1911	0.61	0.00454	0.00025	0.0	0.00	0.61	0.9

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SCANNED

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DITCH 21-20	158	1.5	0.50	237	0.01	285	0.007	0.30	119	0.61	0.00099	0.00005	0.0	0.00	0.60	0.1
DITCH 13-OUT	220	1.5	0.50	330	0.01	397	0.009	0.30	165	0.61	0.00138	0.00007	0.0	0.00	0.61	0.1
DITCH 16-20	135	1.5	0.50	203	0.00	243	0.006	0.30	101	1.25	0.00085	0.00004	0.0	0.00	1.25	0.0
POND 20	45.9192	45.9192	1.50	2109	0.05	2150	0.049	0.30	3163	2.46	0.00747	0.00042	0.0	0.00	2.45	0.4
DITCH 20-OUT	106	1.5	0.50	159	0.00	191	0.004	0.30	80	2.45	0.00066	0.00003	0.0	0.00	2.45	0.0
DITCH TO 23	97	1.5	0.50	146	0.00	175	0.004	0.30	73	2.45	0.00061	0.00003	0.0	0.00	2.45	0.0
POND 23	16.1966	16.1966	1.50	262	0.01	277	0.006	0.30	393	2.45	0.00096	0.00005	0.0	0.00	2.45	0.0
DITCH TO 7	684	1.5	0.50	1026	0.02	1233	0.028	0.30	513	2.54	0.00428	0.00020	0.0	0.00	2.53	0.1
POND 7	53.8439	53.8439	1.50	2899	0.07	2948	0.068	0.30	4349	2.53	0.01024	0.00057	0.0	0.00	2.52	0.5
DITCH 7-19	345	1.5	0.50	518	0.01	622	0.014	0.30	259	2.52	0.00216	0.00010	0.0	0.00	2.52	0.0
SPRING-19	446	1.5	0.50	669	0.02	804	0.018	0.30	335	0.00	0.00279	0.00013	0.0	0.00	0.00	
POND 19	36.3022	36.3022	1.50	1318	0.03	1351	0.031	0.30	1977	2.52	0.00469	0.00026	0.0	0.00	2.51	0.2
DITCH 19-22	54	1.5	0.50	81	0.00	97	0.002	0.30	41	2.51	0.00034	0.00002	0.0	0.00	2.51	0.0
POND 22	24.7992	24.7992	1.50	615	0.01	638	0.015	0.30	923	2.51	0.00221	0.00012	0.0	0.00	2.51	0.1
DITCH 22-24	86	1.5	0.50	129	0.00	155	0.004	0.30	65	2.51	0.00054	0.00003	0.0	0.00	2.51	0.0
POND 24	26.7475	26.7475	1.50	715	0.02	740	0.017	0.30	1073	2.51	0.00257	0.00014	0.0	0.00	2.51	0.1
DITCH 24-27	25	1.5	0.50	38	0.00	45	0.001	0.30	19	1.25	0.00016	0.00001	0.0	0.00	1.25	0.0
POND 27	26.2981	26.2981	1.50	692	0.02	715	0.016	0.30	1037	1.25	0.00248	0.00014	0.0	0.00	1.25	0.2
DITCH 27-28	16	1.5	0.50	24	0.00	29	0.001	0.30	12	1.25	0.00010	0.00000	0.0	0.00	1.25	0.0
POND 28	46.8402	46.8402	1.50	2194	0.05	2237	0.051	0.30	3291	1.25	0.00777	0.00043	0.0	0.00	1.24	0.7
DITCH 28-26	48	1.5	0.50	72	0.00	87	0.002	0.30	36	1.24	0.00030	0.00001	0.0	0.00	1.24	0.0
POND 26	43.6786	43.6786	1.50	1908	0.04	1947	0.045	0.30	2862	1.24	0.00676	0.00038	0.0	0.00	1.23	0.6
DITCH 24-29	75	1.5	0.50	113	0.00	135	0.003	0.30	56	1.25	0.00047	0.00002	0.0	0.00	1.25	0.0
POND 29	54.5983	54.5983	1.50	2981	0.07	3031	0.070	0.30	4471	1.25	0.01052	0.00059	0.0	0.00	1.24	1.0
DITCH 29-30	191	1.5	0.50	287	0.01	344	0.008	0.30	143	1.24	0.00120	0.00006	0.0	0.00	1.24	0.0
POND 30	39.0674	39.0674	1.50	1526	0.04	1562	0.036	0.30	2289	1.24	0.00542	0.00030	0.0	0.00	1.23	0.5
DITCH 30-25	442	1.5	0.50	663	0.02	797	0.018	0.30	332	1.23	0.00277	0.00013	0.0	0.00	1.23	0.1
DITCH 26-25	90	1.5	0.50	135	0.00	162	0.004	0.30	68	1.23	0.00056	0.00003	0.0	0.00	1.23	0.0
DITCH 23-25	165	1.5	0.50	248	0.01	297	0.007	0.30	124	2.45	0.00103	0.00005	0.0	0.00	2.45	0.0
POND 25	116.283	116.283	6.00	13522	0.31	13944	0.320	0.30	81130	4.91	0.04842	0.00266	66.0	1.32	3.54	4.6
TOT. DITCH	10554			35781	0.821	42428	0.974		46391		1.948	0.0071				
TOT. PONDS				48158	1.106	49424	1.135		133085		0.1716	0.0095				
TOTAL				83939	1.927	91852	2.109		179475		2.120	0.0165	66.0	1.32		

SYSTEM SEEPAGE LOSS=	2.120	CFS=	106.0	MINERS IN.=	951	GPM
SYSTEM DESIGN EVAP LOSS=	0.017	CFS=	0.8	MINERS IN.=	7	GPM
SYSTEM IRRIG. REQ'T=	1.324	CFS=	66.2	MINERS IN.=	594	GPM
SYSTEM WATER REQ'T=	3.460	CFS=	173.0	MINERS IN.=	1553	GPM
SYSTEM DIVERSION AVAILABLE=	7.000	CFS=	350.0	MINERS IN.=	3142	GPM
SYSTEM RETURN FLOW	3.540	CFS=	177.0	MINERS IN.=	1589	GPM

MAX POND TURNOVER TIME- ALL PONDS= 11.6 HOURS
 MAX TURNOVER TIME WITHOUT IRRIGATION= 10.0 HOURS

TOTAL WATER REPLACEMENT
 PUMPING FOR IRRIGATION OUT OF POND 25

SCANNED
 SEP 29 2010

SYSTEM IRRIGATION SEASON POND & DITCH WATER USE

IRRIGATION SEASON LENGTH 180.0 DAYS
AVERAGE PROJECT SEEPAGE 2.120 CFS
IRRIG SEASON PROJECT SEEPAGE 756.2 ACRE FEET
IRRIG. SEASON EVAP. (CONSUMPTIVE USE) 4.9 ACRE FEET

SYSTEM IRRIGATION SEASON DISCHARGE REQ'T

POND & DITCH SEEPAGE FOR 1.93 ACRES= 951.3 GPM
MAX. EVAPORATION LOSS 7.4 GPM
IRRIG. OF 66 ACRES FROM PONDS 594.0 GPM
TOTAL IRRIGATION SEASON DISCHARGE REQ'T 1552.8 GPM

PROJECT

SYSTEM IRRIGATED ACREAGE AND ESTIMATED MAXIMUM ET

VEGETATION	ACRES	CROP EST COEFF.	ET IN/DAY	MAX USE AF/DAY	MAX USE GPD
TURF	39.60	0.80	0.24	0.80	260427
SHRUBS	26.40	0.75	0.23	0.50	162767
TOTAL	66.0			1.30	423194

WEIGHTED MAX DAY CROP COEFF. 0.78
SEASONAL AVG CROP COEFF 0.52 (ALLEN & BROCKWAY, 1983)
SEASONAL REFERENCE ET 49.84 INCHES
SEASONAL WEIGHTED ET= 25.92 INCHES
TOTAL SEASON ET 142.5 ACRE FEET

SYSTEM NON-IRRIGATION SEASON POND WATER USE ESTIMATE

NOT OPERATED DURING NON-IRRIGATION SEASON

SYSTEM NON-IRRIGATION SEASON DISCHARGE REQ'T(PONDS FULL)

NOT OPERATED DURING NON-IRRIGATION SEASON

MAX REF ET = 0.30276 INCHES/DAY= 7.69 MM/DAY(ALLEN & BROCKWAY,1983)
SEAS. REF ET= 49.84 INCHES/YEAR= 1266 MM/DAY(ALLEN & BROCKWAY,1983)

PROJECT

IRRIGATION C,U. WATER BUDGET

CROP CONSUMPTIVE USE	PROJECT
POND CONSUMPTIVE USE	4.9
LANDSCAPING CONSUMPTIVE USE	142.5
TOTAL	147.5

SCANNED
SEP 29 2019