State of Idaho
Department of Water Resources

Water Right License

Water Right No. 65-23479

Priority: August 15, 2012

Maximum Diversion Rate: 150.00 CFS
Maximum Diversion Volume: 1,800.0 AF

It is hereby certified that:

BIG WILLOW RANCH LLC C/O JG SCHWARZ
1 DIXIE LN PAYETTE ID 83661-5030 AND
NORTHWEST FARM CREDIT SERVICES FLCA 308 SE 10TH ST ONTARIO OR 97914

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated August 15, 2012, and has submitted Proof of Beneficial Use on June 03, 2015. An examination confirms water is diverted from:

Source : DRY CREEK **Tributary:** BIG WILLOW CREEK

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
IRRIGATION	03/01 to 06/15	10.00 CFS	
IRRIGATION STORAGE	01/01 to 12/31		1,800.0 AF
IRRIGATION FROM STORAGE	03/01 to 11/15		1,800.0 AF
DIVERSION TO STORAGE	10/01 to 06/15	150.00 CFS	

Location of Point(s) of Diversion
DRY CREEK NE¼ SE¼, Sec. 27, Twp 09N, Rge 02W, B.M. PAYETTE County

Place of Use: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
08N	02W	7			16.0	26.0					11.0	1.0 L3	3.0 L4	2.0	7.0	26.0			92.0
08N	02W	8	21.0	13.0	15.0	5.0	6.0		28.0	22.0		1.0							111.0
08N	02W	9	3.0	13.0	19.0	7.0	21.0	23.0	5.0	5.0									96.0
08N	03W	11											24.0	38.0			34.0	34.0	130.0
08N	03W	12									15.0		33.0	37.0	2.0	19.0	28.0	3.0	137.0
08N	03W	13						14.0											14.0
08N	03W	14	19.0	14.0			8.0												41.0

Total Acres: 621.0

Place of Use: IRRIGATION FROM STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
08N	02W	7			16.0	26.0					11.0	1.0 L3	3.0 L4	2.0	7.0	26.0			92.0
08N	02W	8	21.0	13.0	15.0	5.0	6.0		28.0	22.0		1.0							111.0
08N	02W	9	3.0	13.0	19.0	7.0	21.0	23.0	5.0	5.0									96.0
08N	03W	11											24.0	38.0			34.0	34.0	130.0
08N	03W	12									15.0		33.0	37.0	2.0	19.0	28.0	3.0	137.0
08N	03W	13						14.0											14.0
08N	03W	14	19.0	14.0			8.0												41.0

Total Acres: 621.0

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JUN 2 3 2023

State of Idaho
Department of Water Resources

Water Right License

Water Right No. 65-23479

Place of Use: IRRIGATION STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
09N	02W	27									X	X		X		X	X		

Conditions of Approval

1. The reservoir established by the storage of water under rights 65-7136, 65-7603, 65-22979, and 65-23479 shall not exceed a total capacity of 1,860 acre-feet or a total surface area of 65 acres.
2. Rights 65-7136, 65-7603, 65-22979, and 65-23479 when combined shall not exceed a total diversion rate of 150 cfs, a total annual maximum storage volume of 1,860 af, and the irrigation of 621 acres.
3. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.5 afa per acre at the field headgate for irrigation of the place of use.
4. This right when combined with all other rights shall provide no more than 5.0 afa per acre for irrigation storage and irrigation from storage for the place of use.
5. The right holder shall contact the watermaster by June 15 each year for authorization to continue diverting and using water directly from Dry Creek. The right holder shall not divert water from Dry Creek after June 15 each year unless the watermaster authorizes continued diversion and use of water under this water right. When the watermaster informs the right holder that water is not available to fill this right, the right holder shall cease diversion from the creek, shall rent water from the Payette River Rental Pool, or shall otherwise mitigate for the depletion of water caused by this water use. The department may amend the contact date listed in this administrative provision to more closely coincide with the date when water is not available to fill this water right. This curtailment/mitigation does not apply to water already stored in the reservoir prior to June 15 of each year.
6. The storage of water under this right is contingent upon continued certification by the Department of Water Resources under the dam safety provisions of the Idaho Code, authorizing storage.
7. Use of water under this right may be regulated by a watermaster with responsibility for the distribution of water among appropriators within a water district. At the time of this approval, this water right is within State Water District No. 65.
8. Upon specific notification by the Department, the right holder shall install a lockable device of a type acceptable to the Department in a manner that will provide the watermaster suitable control of the diversion.
9. When notified by the Department, the right holder shall install and maintain a measuring device of a type acceptable to the Department as part of the diverting works.

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Department of Water Resources

Water Right License

Water Right No. 65-23479

10. When ordered by the Director, the right holder shall provide mitigation acceptable to the Director to offset depletion of lower Snake River flows needed for migrating anadromous fish. The amount of water required for mitigation, which is to be released into the Snake River or a tributary for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this right. Any order of the Director issued in accordance with this paragraph shall be in conformance with applicable rules allowing the right holder due process as the need for mitigation and the amount of mitigation are determined.

This license is issued pursuant to the provisions of Idaho Code § 42-219. The water right confirmed by this license is subject to all prior water rights and shall be used in accordance with Idaho law and applicable rules of the Department of Water Resources.

Signed this 22nd day of June, 2023.

SCOTT STORMS
Water Rights Supervisor

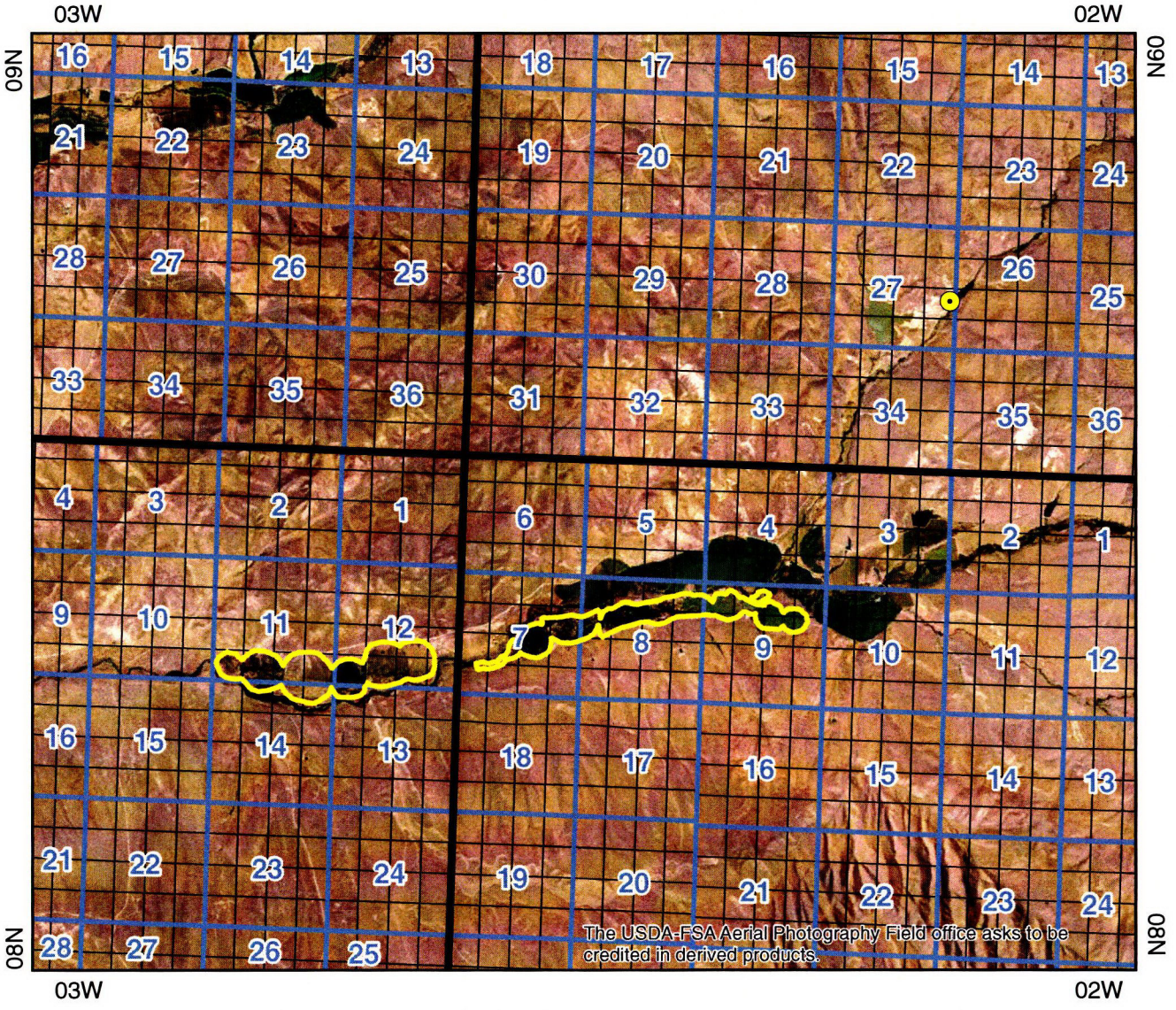
SCANNED
JUN 23 2023

State of Idaho
Department of Water Resources

Attachment to Water Right License

65-23479

This map depicts the IRRIGATION and IRRIGATION FROM STORAGE place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



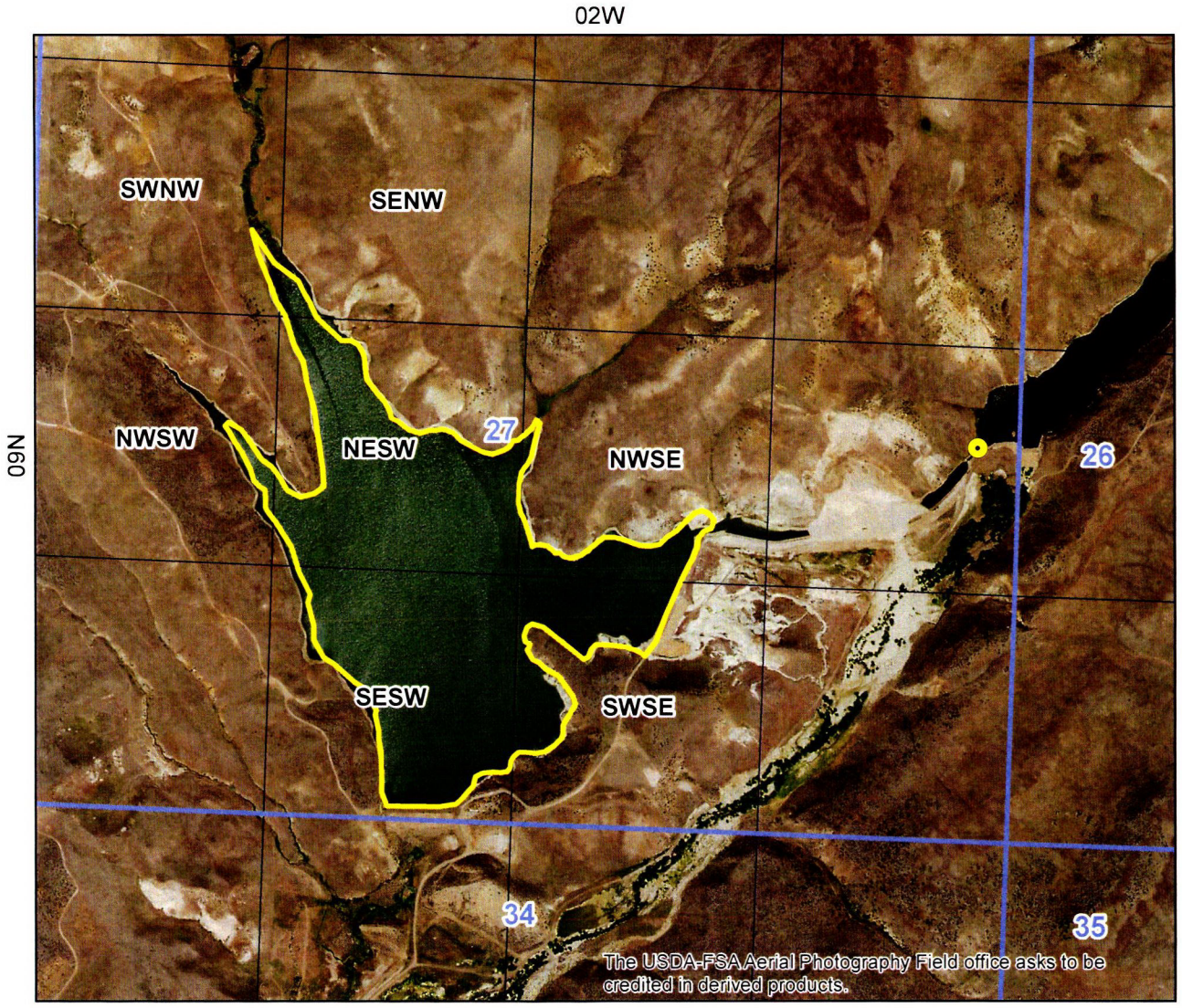
SCANNED
JUN 23 2023

State of Idaho
Department of Water Resources

Attachment to Water Right

65-23479

This map depicts the IRRIGATION STORAGE place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



0 0.1 0.2 0.4 Miles

Place Of Use Boundary
Townships
PLS Sections
Quarter Quarters
Point of Diversion

N

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JUN 23 2023

IDAHO DEPARTMENT OF
WATER RESOURCES

Western Region • 2735 W Airport Way • Boise, ID 83705-5082
Phone: 208-334-2190 • Fax: 208-334-2348 • Email: westerninfo@idwr.idaho.gov • Web: idwr.idaho.gov

Governor Brad Little

Director Gary Spackman

June 23, 2023

BIG WILLOW RANCH LLC
C/O JG SCHWARZ
1 DIXIE LN
PAYETTE ID 83661-5030

NORTHWEST FARM CREDIT
SERVICES FLCA
308 SE 10TH ST
ONTARIO OR 97914-4418

RE: License No. 65-23479

ISSUANCE OF LICENSE

Dear Water Right Holder(s):

The Department of Water Resources ("Department") has issued the enclosed Water Right License confirming that a water right has been established in accordance with your permit. Please be sure to thoroughly review all the conditions of approval listed on your license. The conditions may include ongoing requirements, such as maintenance of a measuring device or implementation of mitigation, as well as information about how your water use may be administered, such as regulation by a watermaster in a water district.

The license is a PRELIMINARY ORDER issued by the Department pursuant to Rule 730 of the Department's Rules of Procedure (IDAPA 37.01.01.730). It can and will become a final order without further action by the Department unless a party petitions for reconsideration, files exceptions, or requests a hearing as described in the enclosed information sheet.

Also, please note that water right owners are required to report any change of water right ownership and/or mailing address to the Department within 120 days of the change. Water right forms are available from any office of the Department or on the Department's website at idwr.idaho.gov

If you have any questions concerning the enclosed information, please contact me at (208) 605-4624.

Sincerely,

Lynne Evans
for Scott Storms
Water Rights Supervisor

Enclosure(s)

SCANNED
JUN 23 2023

CERTIFICATE OF SERVICE

I hereby certify that on June 23, 2023, I served a true and correct copy of Water Right License No. 65-23479 by U.S. Mail, postage prepaid, to the following:

BIG WILLOW RANCH LLC (Current Owner)
C/O JG SCHWARZ
1 DIXIE LN
PAYETTE ID 83661-5030

NORTHWEST FARM CREDIT SERVICES FLCA (Current Owner)
308 SE 10TH ST
ONTARIO OR 97914-4418

NEIL SHIPPY (Watermaster)
WATER DISTRICT #65
102 N MAIN ST
PAYETTE ID 83661-2522

Lynne Evans
Administrative Assistant I

SCANNED
JUN 23 2023

EXPLANATORY INFORMATION TO ACCOMPANY A PRELIMINARY ORDER

(To be used in connection with actions when a hearing was **not** held)

(Required by Rule of Procedure 730.02)

The accompanying order or approved document is a "**Preliminary Order**" issued by the department pursuant to section 67-5243, Idaho Code. **It can and will become a final order without further action of the Department of Water Resources ("department") unless a party petitions for reconsideration, files an exception and brief, or requests a hearing as further described below:**

PETITION FOR RECONSIDERATION

Any party may file a petition for reconsideration of a preliminary order with the department within fourteen (14) days of the service date of this order. **Note: the petition must be received by the department within this fourteen (14) day period.** The department will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See Section 67-5243(3) Idaho Code.

EXCEPTIONS AND BRIEFS

Within fourteen (14) days after: (a) the service date of a preliminary order, (b) the service date of a denial of a petition for reconsideration from this preliminary order, or (c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration from this preliminary order, any party may in writing support or take exceptions to any part of a preliminary order and may file briefs in support of the party's position on any issue in the proceeding with the Director. Otherwise, this preliminary order will become a final order of the agency.

REQUEST FOR HEARING

Unless a right to a hearing before the Department or the Water Resource Board is otherwise provided by statute, any person aggrieved by any final decision, determination, order or action of the Director of the Department and who has not previously been afforded an opportunity for a hearing on the matter may request a hearing pursuant to section 42-1701A(3), Idaho Code. A written petition contesting the action of the Director and requesting a hearing shall be filed within fifteen (15) days after receipt of the denial or conditional approval.

ORAL ARGUMENT

If the Director grants a petition to review the preliminary order, the Director shall allow all parties an opportunity to file briefs in support of or taking exceptions to the preliminary order and may schedule oral argument in the matter before issuing a final order. If oral arguments are to be heard, the Director will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Director orders otherwise, all oral arguments will be heard in Boise, Idaho.

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CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Director in connection with the preliminary order shall be served on all other parties to the proceedings in accordance with IDAPA Rules 37.01.01302 and 37.01.01303 (Rules of Procedure 302 and 303).

FINAL ORDER

The Director will issue a final order within fifty-six (56) days of receipt of the written briefs, oral argument or response to briefs, whichever is later, unless waived by the parties or for good cause shown. The Director may remand the matter for further evidentiary hearings if further factual development of the record is necessary before issuing a final order. The department will serve a copy of the final order on all parties of record.

Section 67-5246(5), Idaho Code, provides as follows:

> Unless a different date is stated in a final order, the order is effective fourteen (14) days after its service date if a party has not filed a petition for reconsideration. If a party has filed a petition for reconsideration with the agency head, the final order becomes effective when:
>
> (a) The petition for reconsideration is disposed of; or
> (b) The petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

APPEAL OF FINAL ORDER TO DISTRICT COURT

Pursuant to sections 67-5270 and 67-5272, Idaho Code, if this preliminary order becomes final, any party aggrieved by the final order or orders previously issued in this case may appeal the final order and all previously issued orders in this case to district court by filing a petition in the district court of the county in which:

i. A hearing was held,
ii. The final agency action was taken,
iii. The party seeking review of the order resides, or
iv. The real property or personal property that was the subject of the agency action is located.

The appeal must be filed within twenty-eight (28) days of this preliminary order becoming final. See section 67-5273, Idaho Code. The filing of an appeal to district court does not itself stay the effectiveness or enforcement of the order under appeal.

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JUN 23 2023

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-23479
Exam Date: 5/2/2017

1. Current Owner:
BIG WILLOW RANCH LLC 1 DIXIE LN PAYETTE ID 83661 (208) 739-1939

NORTHWEST FARM CREDIT SERVICES FLCA 308 SE 10TH ST ONTARIO OR 97914 (541) 823-2660

2. Accompanied by: JG SCHWARZ
Phone No: (208) 739-1939
Address: 1 DIXIE LN PAYETTE ID 83661
Relationship to Permit Holder: SOLE PARTNER OF BIG WILLOW RANCH LLC

3. **SOURCE:** DRY CREEK

TRIBUTARY: BIG WILLOW CREEK

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Irrigation Storage: 65-22979, 65-7136; Irrigation: None
2. Other water rights with the same point-of-diversion: 65-22979, 65-7136, and 65-7603

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
DRY CREEK NE¼SE¼ Sec. 27, Twp 09N, Rge 02W, B.M. PAYETTE County

Method of Determination: Field exam and confirmed by aerial imagery.

2.

PLACE OF USE: IRRIGATION FROM STORAGE and IRRIGATION

			NE				NW				SW				SE				
Twp	Rge	Sec	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
08N	02W	7			16.0	26.0					11.0	1.0 L 3	3.0 L 4	2.0	7.0	26.0			92.0
08N	02W	8	21.0	13.0	15.0	5.0	6.0		28.0	22.0		1.0							111.0
08N	02W	9	3.0	13.0	19.0	7.0	21.0	23.0	5.0	5.0									96.0
08N	03W	11											24.0	38.0			34.0	34.0	130.0
08N	03W	12									15.0		33.0	37.0	2.0	19.0	28.0	3.0	137.0
08N	03W	13						14.0											14.0
08N	03W	14	19.0	14.0			8.0												41.0

Total Acres: 621

PLACE OF USE: IRRIGATION STORAGE

			NE				NW				SW				SE				
Twp	Rge	Sec	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
09N	02W	27									X	X		X		X	X		

Method of Determination: Field exam and confirmed by aerial imagery.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.
X Indicate weir size/pipe as applicable.

Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be
X 1:24,000 or greater.

X Aerial Photo Attached (required for irrigation of 10+ acres).

X Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size

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JUN 23 2023

NA	NA	NA	NA	NA	NA

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

D. FLOW MEASUREMENTS

1.

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

2. Measurements:

Diversion to Storage:

Flow measurements were not obtained during the field exam, but Mr. Schwarz mentioned the reservoir fills in about three weeks on a good year. Calculations were performed using the reservoir capacity of 1,860 AF, which establishes a rate of 44.5 cfs. The canal that conveys water to the reservoir has an estimated capacity of 300 cfs per A & B Engineering, 1974 construction drawings. This capacity was also referenced in Tech Memo No. T001 page 2 dated June 26, 2016 by McMillen, LLC.

Irrigation:

No measurements were taken relative to direct diversion from Dry Creek. The irrigation component piggy backs off the irrigation from storage system (flood irrigation and pivots). The maximum flow rate used by the pivots total 5,372 gpm. The permitted rate of 10.0 cfs is 4,500 gpm. The system capacity of the 2' main line is assumed to be 70 cfs rate estimated by the USACE Dam Inspection Report dated September 30, 1981.

E. FLOW CALCULATIONS X Additional Sheets Attached

Measured Method: See attached technical memorandums.

F. VOLUME CALCULATIONS

1. Volume Calculations:

Irrigation Storage:

$V_{S.R.}$ = Storage requirement is based off of the reservoir capacity. The initial capacity of the reservoir was 1,060 AF as outlined in A & B Engineering's original study done in 1974. In 2012, Big Willow Ranch proposed to increase the dam height 13 ft., therefore, increasing the reservoir capacity to 1,857.1 AF as shown in McMillen LLC's Technical Memorandum 002, page 13 (1,860 AF per Department's significant figure standard).

Irrigation form Storage:

$V_{I.R.}$ = (Acres Irrigated) x (5 afa/ac per IDAPA 37.03.02.035.03.a) = 621 acres X 5 afa/ac = 3,105 AF

$V_{D.R.}$ = [Diversion Rate (cfs)] x (Days in Irrigation season) x 1.9835 = *4.05 cfs X 260 days X 1.9835 = 2,093.8 AF

V = Smaller of $V_{I.R.}$ and $V_{D.R.}$ =

*Mr. Schwarz reported that the maximum diversion rate from the reservoir is about 1,825 gpm, which converts to 4.05 cfs.

** The permitted volume of 1,800 AF for Irrigation from Storage will be recommended to licensing. This exercise was done to show that the system is diverting enough applied stored water to the acres outlined in this right. **

IRRIGATION:

NA per IDAPA 37.03.02.035.j.vii – natural stream does not require volume recommendation.

G. NARRATIVE/REMARKS/COMMENTS

Permit No. 66-23479 authorizes a diversion rate of 150.0 cfs to storage and 10.0 cfs from Dry Creek. A volume limit of 1,800.0 AF was also permitted for irrigation from storage purposes. A field exam was conducted by WRA Aaron Skinner on May 2, 2017, who was accompanied by JG Schwarz, the sole partner of Big Willow Ranch LLC. Field exam notes and documentation were consolidated, and beneficial use report was prepared and summarized by WRA Justin Shearer.

BACKGROUND:

The purpose of this right was to capture irrigation and irrigation from storage use for newly developed 635 acres. Dry Creek Reservoir's dam was increased by 13'. This addition adjusted the reservoir capacity from 1060 AF to 1860 AF. As such, the licensing recommendations with be limited to the permitted volume of 1,800 AF, but will contain a combine use limit of the reservoir capacity of 1,860 AF with all WR covering the reservoir – WR nos. 65-7136, 65-7603, 65-22979, and 65-23479. WR no. 65-7603 is also a Dry Creek "storage" right but does not actually overlap as it used north of the creek and this permit is used south of the creek. The overall application of the stored water falls short of the allowable 5 AF per acre general rule. This is shown on the included spreadsheet that outlines all the overlapping WRs associated to this permit.

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System Description:

Dry Creek has a diversion dam that impounds water instream. This allows water to be diverted through a feeder canal to Dry Creek Reservoir or directly diverted through a gate valve down Dry Creek. The feeder canal has a capacity of 300 cfs as noted by A & B Engineering in their 1974 report. The feeder canal has a gate structure that uses stop logs to control flow to the reservoir. Water is then diverted from the reservoir via a 24" gravity fed main line. The main line distributes water to the varying pivots outlined in the system diagram and has control valves throughout the system to adjust flow rates and direction. There are 17 pivots that fall within the 621 acres. A system diagram provided by Rain for Rent is included in this file (toe of the dam to pivots system) that provide visual aids. There are also acreage and application rates relative to each pivot outlined in this file.

Irrigation from Dry Creek uses the same delivery system as noted above as water enters the system at the first valve at the toe of the dam and is gravity fed to the pivots.

Diversion Rate and Volume:

The permitted rate and volume limit for this right is 150.0 cfs to storage and 10.0 cfs from Dry Creek and a total storage volume limit of 1,800 AF. Aerial imagery and field exam verification recognizes development of 621 acres instead of the permitted 706.5 acres. Because one of the irrigation components is from storage, the feeder canal capacity was evaluated to understand the diversion's maximum capacity. In their 1974 original report of the dam, A & E Engineering established a maximum capacity for the feeder canal of 300 cfs. Mr. Schwarz mentioned during the field exam that it typically takes three weeks (21 days) to fill the 1,860 AF reservoir (on a good year). This equates to roughly 44.5 cfs. The backfile for WR No. 65-7603 calculated a theoretical flow of 58.5 cfs for the same feeder canal. Generally speaking and shown between the two theoretical calculations, it's impossible to capture a flow measurement that would calculate the maximum diversion rate for this right. As such, it's assumed the rate of 150 cfs is justified as the canal capacity is 300 cfs. Combine use limits not to exceed a combine rate of 150 cfs will be recommended with WR Nos. 65-23479, 65-22979, 65-7136, and 65-7603.

Section D outlines the flow rate calculations specific to the irrigation component of this right. The maximum flow rate used by the pivots total 5,372 gpm. The permitted rate of 10.0 cfs equates to 4,500 gpm. The system capacity of the 2' main line is assumed to be 70 cfs rate estimated by the USACE Dam Inspection Report dated September 30, 1981. As such, **10 cfs will be recommended to licensing** since the system capacity is greater than the permitted rate.

The permitted volume is only relevant to the storage component as irrigation directly from Dry Creek does not require a volume limit per IDAPA 37.03.02.035.j.viii. Since the dam was raised 13' and increased the reservoir capacity, it is assumed 1,800.0 AF is available for use. Reviewing Mr. Schwarz's irrigation system, it is shown that the irrigation system does have the ability to apply the extra volume of water. This is outlined in Section F of this report. Therefore, **1,800.0 AF will be recommended for licensing of the irrigation storage and irrigation from storage components**.

Ownership:

Current Payette County parcel data was used to verify land ownership and identified Big Willow Properties LLLP as the current parcel owners. IDSOS identifies JG Schwarz as the general partner of Big Willow Properties LLLP.

Overlap:

An overlap analysis was completed for the POD and POU. POD overlap includes WR Nos. 65-22979, 65-7136, and 65-7603. Conditions limiting a diversion rate of 150.0 cfs and 1,860 AF will be recommended to licensing.

Conditions:

Condition 185 was forwarded to licensing. Condition 01J was updated to 01P and 01R and forwarded to licensing as a waiver was received from the watermaster. Condition 219 was placed with 220 and forwarded to licensing. Condition 206 and X27 were removed per Kay Walker's comments on the proof report and development clarification of the 621 acres. Condition R65 was forwarded to licensing. Condition R05 was updated with the language "may be regulated..." and forwarded to licensing. Condition X35 was added to describe WR POD overlap and 150 cfs combine use limit and forwarded to licensing. Condition 121 was updated to 103 and forwarded to licensing. Condition 18B was updated to R40 and forwarded to licensing.

Have conditions of permit approval been met? _X_ Yes ____ No

H. RECOMMENDATIONS

1. Recommended Amounts

BENEFICIAL USE	PERIOD OF USE	DIVERSION RATE	ANNUAL VOLUME
IRRIGATION	03/01 to 06/15	10.0 CFS	
IRRIGATION STORAGE	01/01 to 12/31		1,800 AF
IRRIGATION FROM STORAGE	03/01 to 11/15		1,800 AF
DIVERSION TO STORAGE	10/01 to 06/15	150 CFS	

SCANNED

JUN 23 2023

Totals:	150 CFS	1,800 AF

2. Recommended Amendments

____ Change P.D. as reflected above ____ Add P.D. as reflected above __X__ None

____ Change P.U. as reflected above ____ Add P.U. as reflected above __X__ None

I. AUTHENTICATION

Field Examiner's Name _____ Date 10/7/2021

Reviewer _____ Date 6/22/2023

SCANNED

JUN 23 2023

Payette River Basin, State of Idaho
State, Water District No. 65

Watermaster,
Ron Shurtleff

102 N. Main
Payette, ID 83661

Phone: 208-642-4465
Fax: 208-642-1042
E-mail: waterdist65@srvinet.com

November 30, 2018

Aaron Skinner, Water Resource Agent, Sr.
Idaho Department of Water Resources
2735 Airport Way
Boise, ID 83705-5082

Re: Water Rights No. 65-23479, 65-22979, Big Willow Ranch LLC

Dear Mr. Skinner,

In regard to Water Right applications No. 65-23479 and 65-22979 and the conditions requiring a lockable control works, and a measuring device. Mr. J.G. Schwarz gave me a tour of the canal and reservoir system on Dry Creek which serve as the facility for the water storage and delivery of irrigation water under these water rights applications. He also explained the systems method of operation.

The onsite visit and learning experience about the system has allowed me to determine that a measuring device and a lockable control works are not necessary at this time for the administration of these water rights. I thus recommend waiving the condition 2. 01J on Water Right No 65-23479 and condition 9. 01J on Water Right No. 22979.

If you need any further information, please contact me at 208-642-4465.

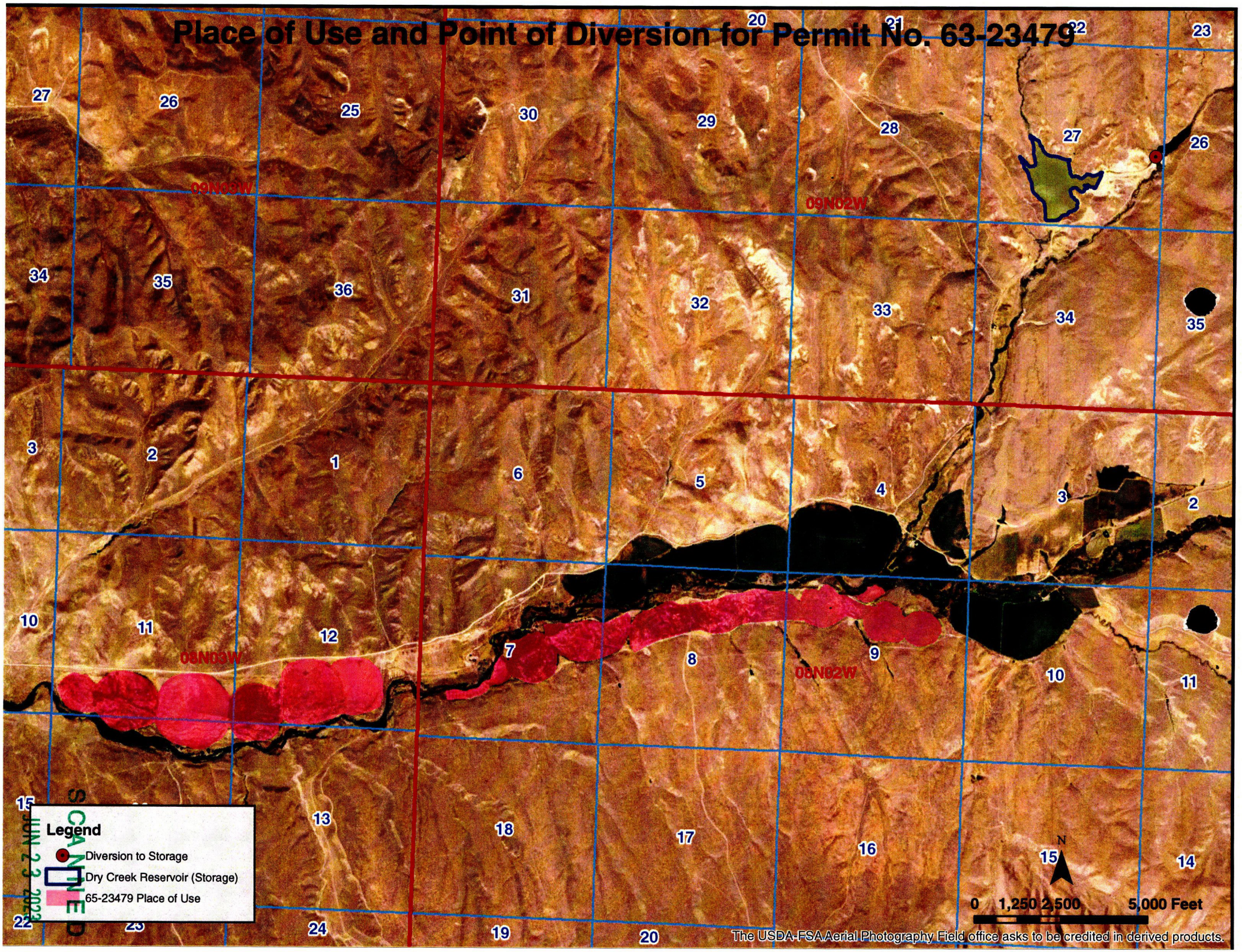
Sincerely,

Ron Shurtleff

Ron Shurtleff

SCANNED
JUN 23 2023

Place of Use and Point of Diversion for Permit No. 63-23479



SCANNED JUN 23 2023

canal (Figure 1-1). The Project outlet works are located in the main dam and consist of a 24-inch-diameter concrete pipeline with a slide gate on the upstream end. The original pipe was designed for free gravity flow through the outlet works. In 2012, the outlet works were pressurized by connecting a steel pipe with two butterfly valves at the outlet of the conduit (Appendix E; picture 1-2). The original dam outlet conduit has concrete sections connected by rubber gaskets and is not designed to be pressurized.

The current spillway for the main reservoir is located at the diversion dam and water backs up through the canal system to allow for discharge through the spillway from the main reservoir (Figure 1-1). The spillway is currently undersized for PMF flow. The canal runs through a steep, unstable side slope and is prone to shallow slope failures (Appendix E, Pictures 7-8).

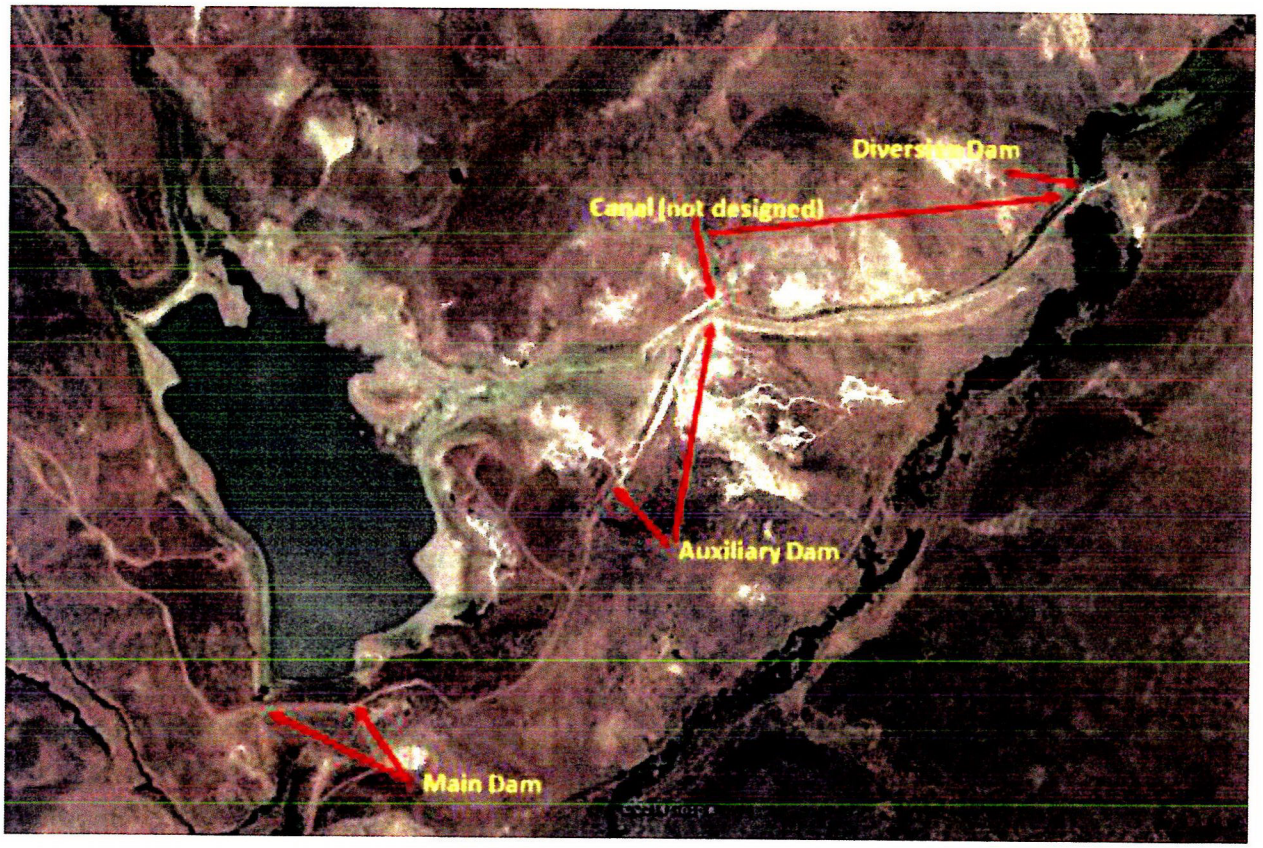
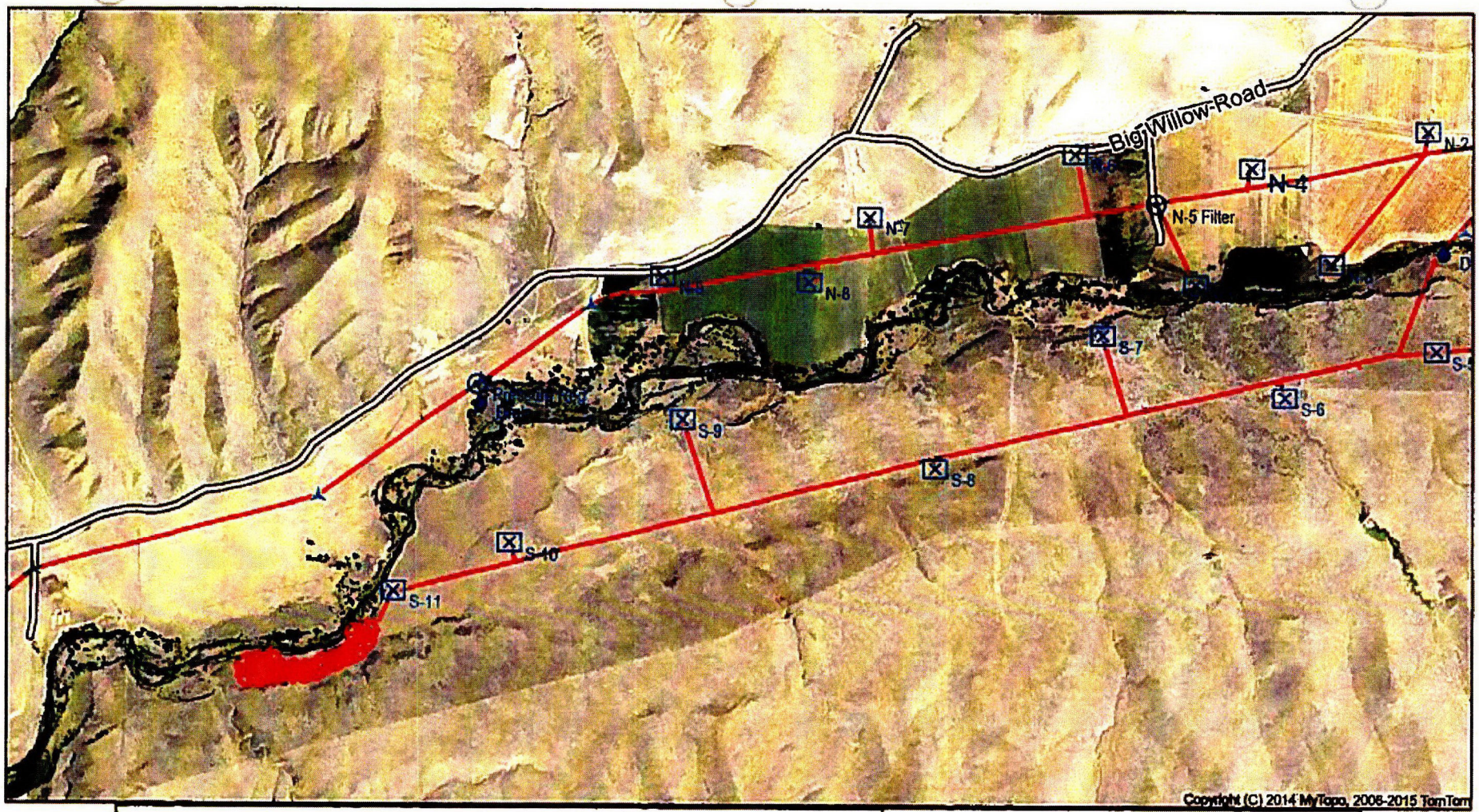


Figure 1-1. Location Map of Key Project Features

The current reservoir capacity is 1060 acre-feet (AF) at full pool (defined by the base level of the spillway invert). The purpose of this Project is to increase storage by 799.1 AF to 1859.1 AF by raising the dam, auxiliary dam, diversion dam crests and spillway inverts by 13 feet. In addition, the canal will need to be raised as well, but canal design is not part of this effort because it has no dam safety component once the new auxiliary dam spillway is completed.

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Legend

Symbol	Item
	Main Line
⊠	Pivot Point
	Air Vent
	Drain
	Valve

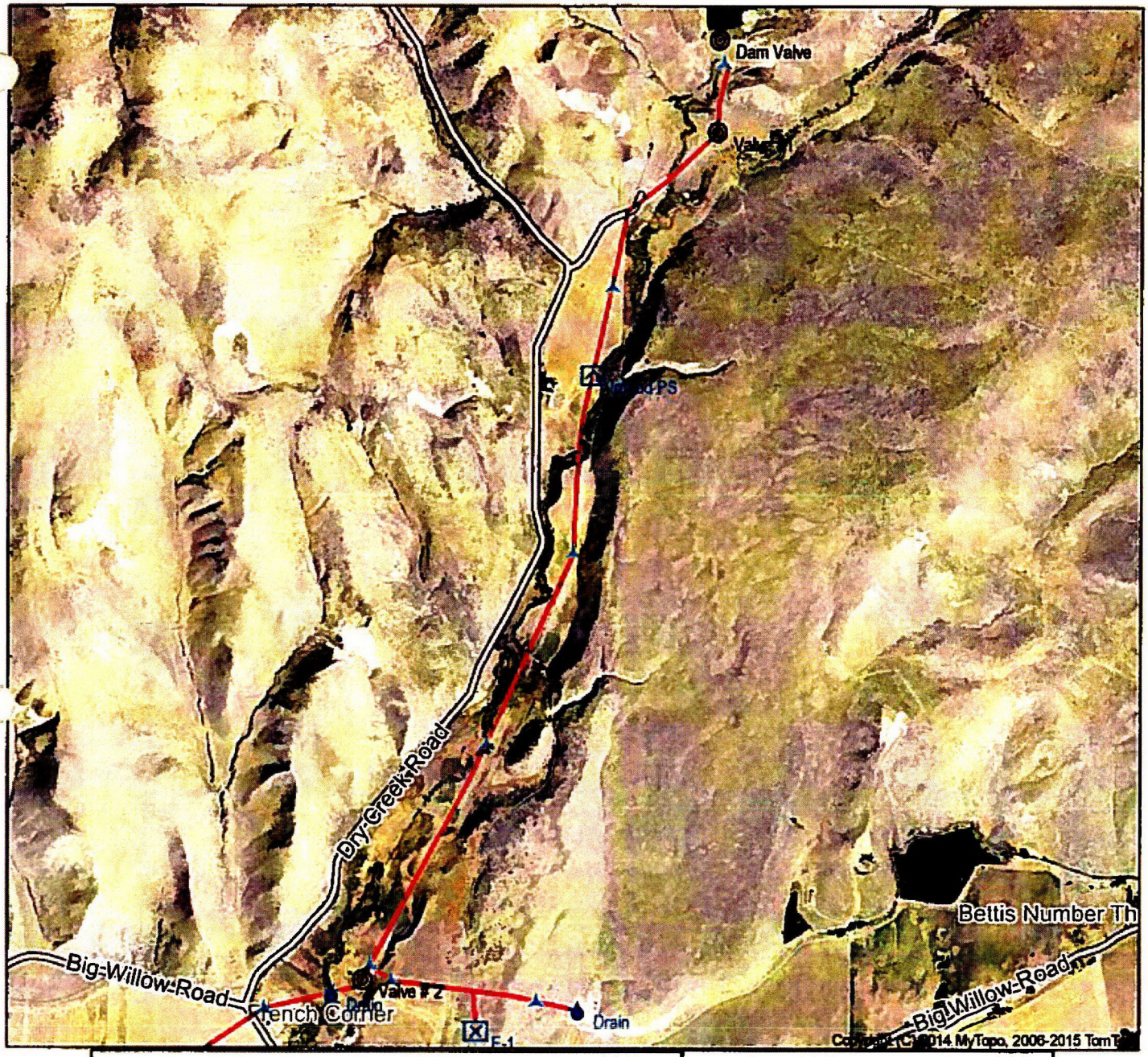
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7
MILES
0 1
KILOMETER

Scale: 1:16,000
Projection: Universal Transverse Mercator
Datum/Zone: NAD83, Zone 11
Basemap:
Aerial Photo (Aug 30, 2013)

Date: 03/06/15

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Legend

Symbol	Item
	Main Line
	Pivot Point
	Air Vent
	Drain
	Valve

0.0 0.1 0.2 0.3 0.4 0.5
MILES

0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8
KILOMETERS

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Projection: Universal Transverse Mercator
Datum/Zone: NAD83, Zone 11
Basemap:
Aerial Photo (Aug 13, 2013)

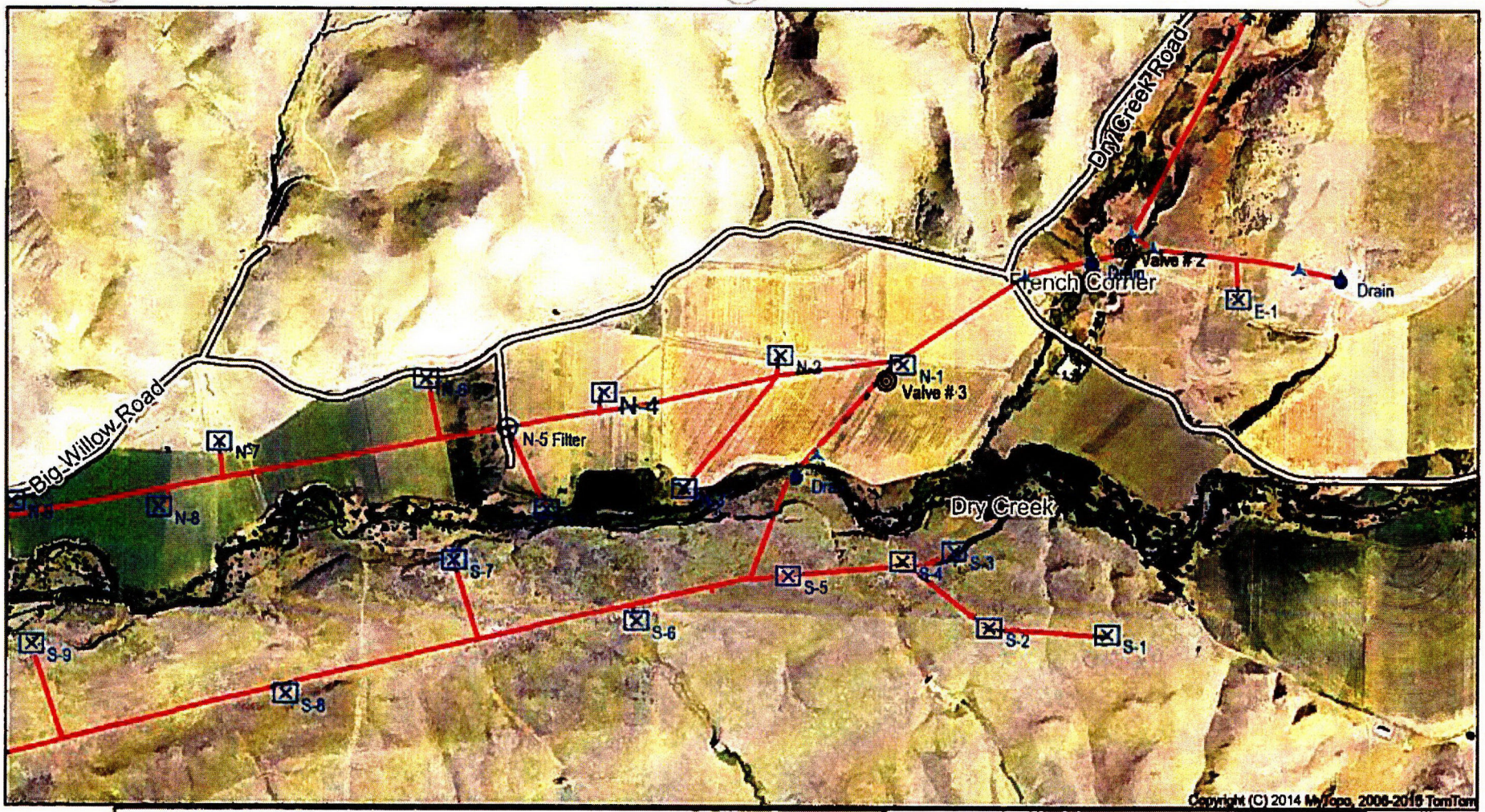
Date: 03/06/15

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1 South Broadway
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Legend

Symbol	Item
	Main Line
	Pivot Point
	Air Vent
	Drain
	Valve

0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7
MILES
0 1
KILOMETER

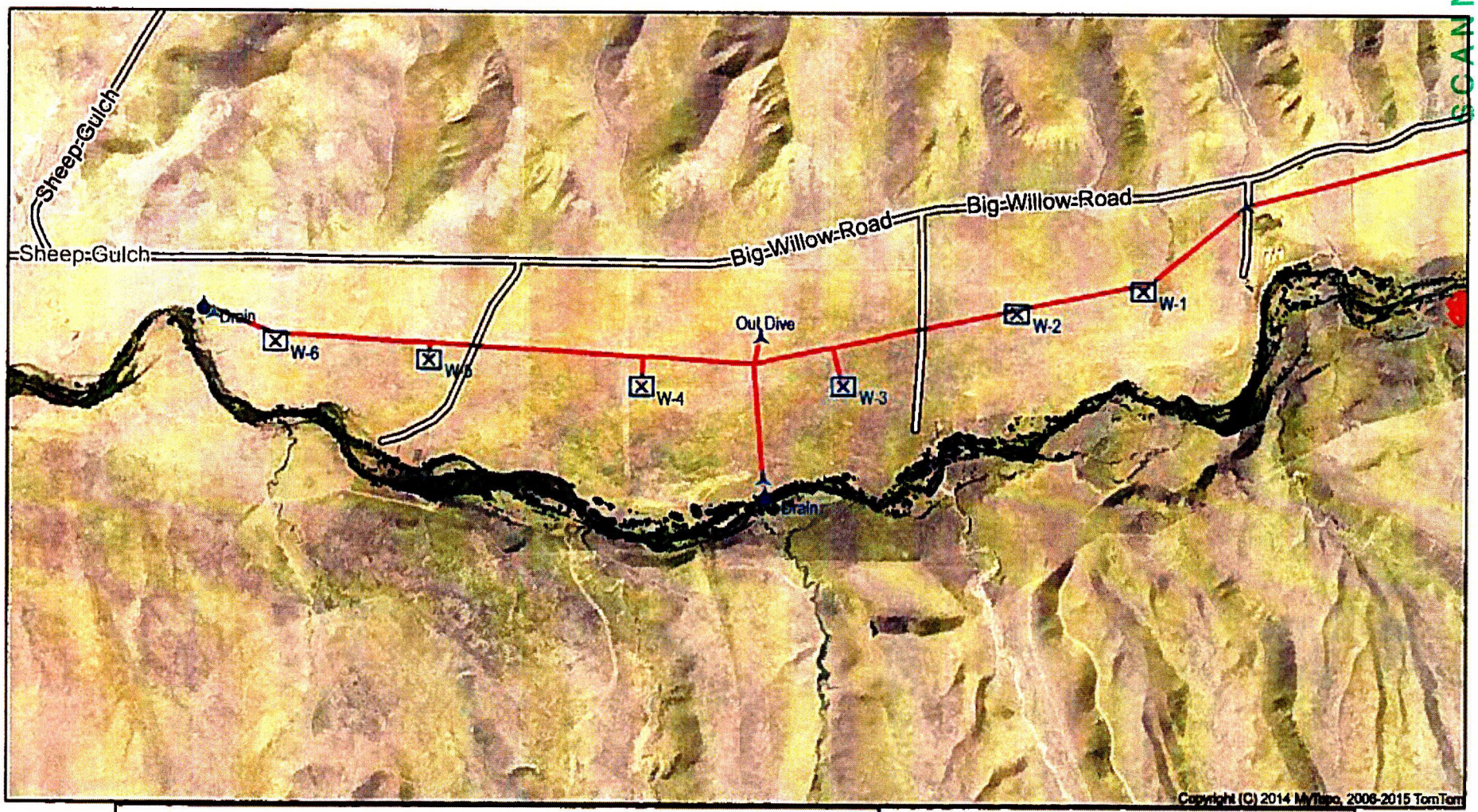
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Datum/Zone: NAD83, Zone 11
Basemap:
Aerial Photo (Aug 30, 2013)

Date: 03/06/15

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Legend

Symbol	Item
	Main Line
⊠	Pivot Point
	Air Vent
	Drain
	Valve

0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7
MILES
0 1
KILOMETER

Scale: 1:16,000
Projection: Universal Transverse Mercator
Datum/Zone: NAD83, Zone 11
Basemap:
Aerial Photo (Aug 13, 2013)

Date: 03/06/15

N

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Wave height is defined by the following equation:

$$H = 1.95(F/2) \quad (4)$$

Where:

H = Wave height (feet)
F = Fetch, the distance across the reservoir, measured perpendicular to the major axis of the dam. (miles)

Table 1. Dam Freeboard Requirements

Reservoir	Fetch (mi)	Wave Height (ft)	Freeboard (ft)
Dry Creek	0.44	0.43	2.43
Diversion	0.14	0.14	2.14

Using Arc Map (ERSRI, 2014), the fetch was measured at 0.44 miles giving a wave height of 0.43 feet. The total freeboard required during the 1000-year flood is 2.43 feet.

2.0 HYDROLOGY

2.1 Introduction

In addition to the dam safety rules the unique layout of the reservoir and diversion reservoir requires consideration. The Dry Creek Dam Raise project comprises two impoundments Dry Creek Dam and Reservoir and Diversion Dam and Reservoir connected by a 0.3 mile long canal. From the construction drawings (A & B Engineering, 1974), the maximum flow through the diversion canal is 300 cfs. To obtain a conservative spillway design it is assumed that the canal flows into the reservoir at 300 cfs at both the 100-year and PMF events.

The PMF is theoretically the largest flood a particular watershed could experience resulting from the Probable Maximum Precipitation event. The PMF is often used for security assessment and design criterion for high hazard dams, as it ensures that a dam will be able to safely pass such an extreme event. As required by IDWR Dam Safety, a large high hazard dam must be capable of safely passing the PMF. The following sections describe the development of the PMF hydrographs and the 100-year return flow for both watersheds.

2.2 Probable Maximum Precipitation Analysis

The PMP hyetograph was developed following HMR 57 (Hansen et al., 1994) methodology for the Dry Creek watershed for both the 6-hr local storm and 72-hr general storm. Table 1 presents the input parameters used to develop the PMP hyetographs. The local storm 1-square mile 1-hour precipitation depth is 9.2 inches. The general storm 10-square mile 24-hour precipitation depth is 10.2 inches. The resulting 6-hr local storm and 72-hr general storm hyetographs are presented in Table 2 and Table 3, respectively. This analysis assumed that the PMP is uniform over both watersheds.

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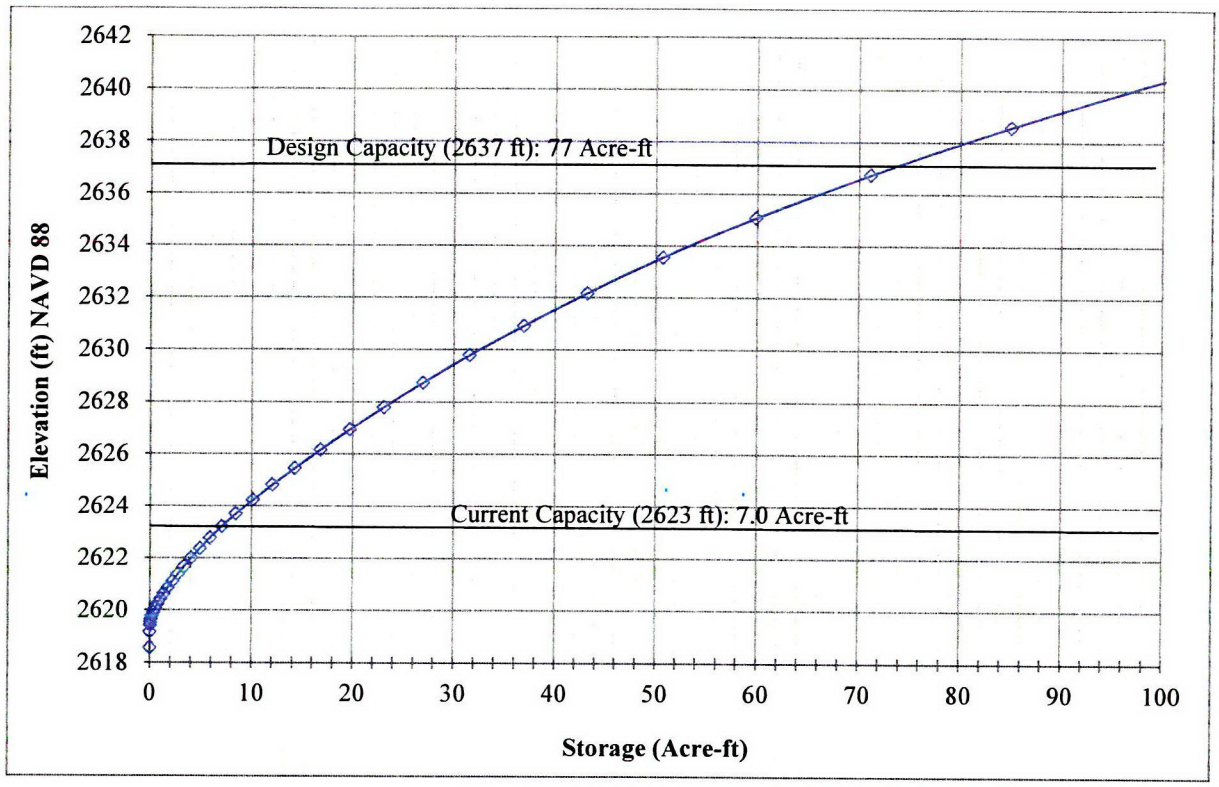


Figure 7. Diversion Dam Reservoir Stage-Storage Curve

3.2.1 Model Geometry

The geometric components include: cross sections, storage area, inline structures, culverts, and lateral structures. The cross sections are used to define the ground elevation and which was obtained from survey data and 10-meter DEM. The storage area features are used to define the elevation-storage curves for Dry Creek Reservoir and Diversion Dam Reservoir. Inline structures were used to represent Dry Creek Dam and Diversion Dam. Elevations and other pertinent dam information for Dry Creek Dam and Diversion Dam are presented in Table 8 and Table 9. The culvert was used to represent the principal spillway for Dry Creek Dam. Figure 7 and Figure 8 present a plan view of the HEC-RAS breach model geometries.

Table 7. Dry Creek Dam Pertinent Data

Debris Basin			Spillway		
Dam Crest El.	(ft)	2641	Auxiliary Spillway Crest El.	(ft)	2636
Crest Length	(ft)	437	Auxiliary Spillway Length	(ft)	29
Crest Width	(ft)	25	Emergency Spillway Crest El.	(ft)	2638.6
Total Storage Volume	(Acre-ft)	1859.1	Emergency Spillway Length	(ft)	350
			Concrete Pipe Outlet Invert	(ft)	2579.96
			Concrete Pipe Diameter	(ft)	2

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Table 8. Diversion Dam Pertinent Data

Debris Basin			Spillway	
Dam Crest El.	(ft)	2641	Emergency Spillway Crest El. (ft)	2637
Crest Length	(ft)	100	Emergency Spillway Length (ft)	250
Crest Width	(ft)	25		
Total Storage Volume (Acre-ft)		66.7		

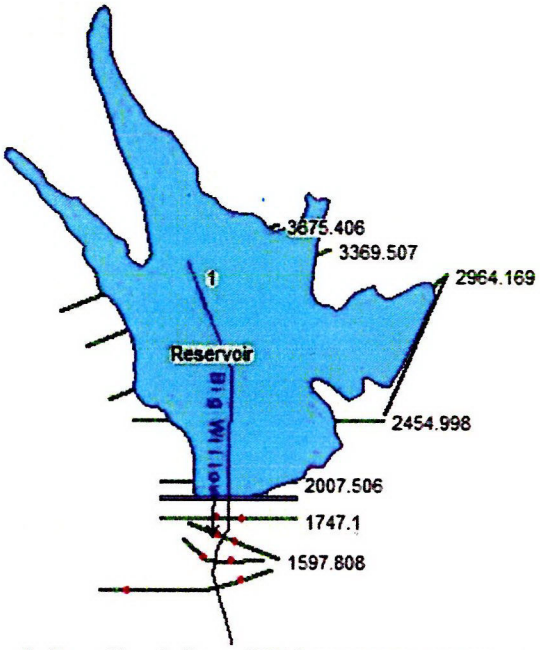


Figure 8. Dry Creek Dam HEC-RAS Model Geometry

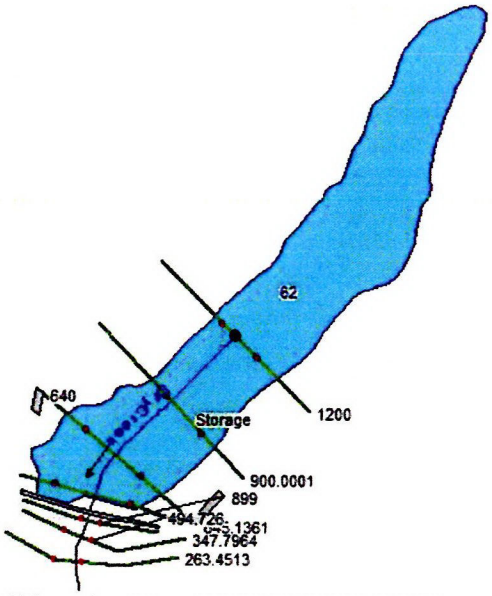


Figure 9. Diversion Dam HEC-RAS Model Geometry

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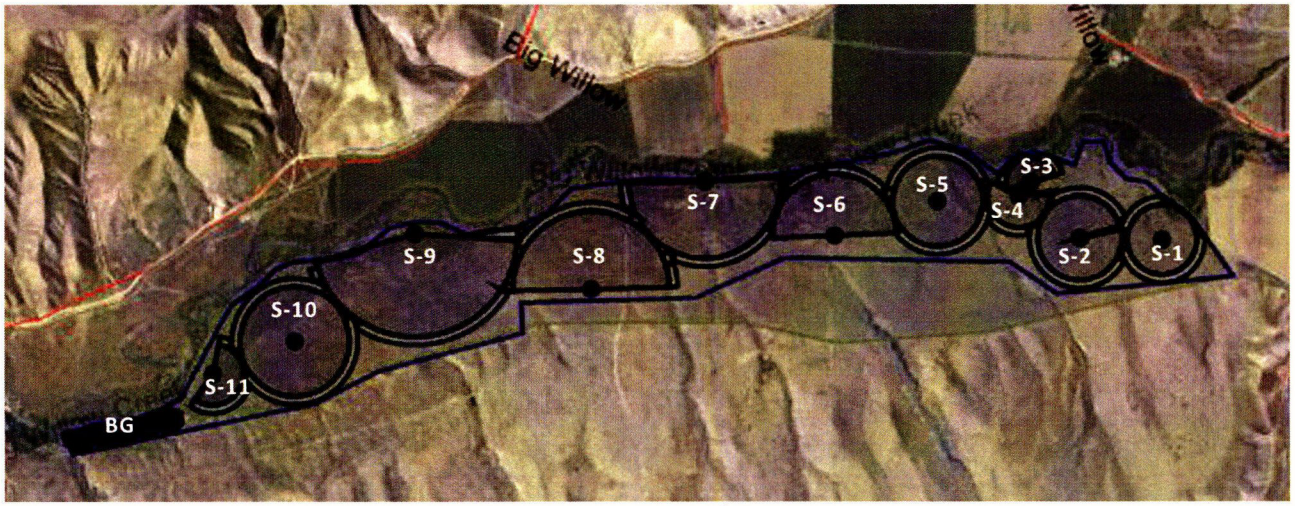
BETTIS DAM

Summary Table

TYPE	Earthfill
HEIGHT	
Structural	66 ft.
Hydraulic	64 ft.
LENGTH	390 ft.
TOP WIDTH	65 ft.
SLOPES	
Upstream	2.5:1
Downstream	2.2:1
ZONING	See Appendix V
RESERVOIR (at spillway crest, el. 2620.0)	
Surface area	58 acres
Storage	1060 ac-ft.
OUTLET WORKS	
Conduit size	24-in. concrete pipe
Gate	24-inc. slide gate
Discharge (reservoir @ 2620.0)	70 cfs
DRAINAGE AREA	14.2 sq. mi.
EMERGENCY SPILLWAY	Earth channel
Width	94 ft.
Depth (at diversion dam)	5 ft.
Discharge capacity at top of dam (el. 2621.8)	400 cfs
FLOODS	
100-Year frequency:	
Estimated peak inflow rate	860 cfs
Maximum reservoir gage	2622.1 ft.
Freeboard:	
Available	(-) 0.3 ft. (overtopped)
Required by IDWR	3.3 ft.

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Big Willow- South Irrigation System



301.8

South Pivot System- 301 Irrigated Acres

Pivot/Area	Acres
S-1	17.4
S-2	25.8
S-3	7.0
S-4	8.6

58.8

Pivot/Area	Acres
S-5	28.8
S-6	26.0
S-7	40.0
S-8	41.0

135.8

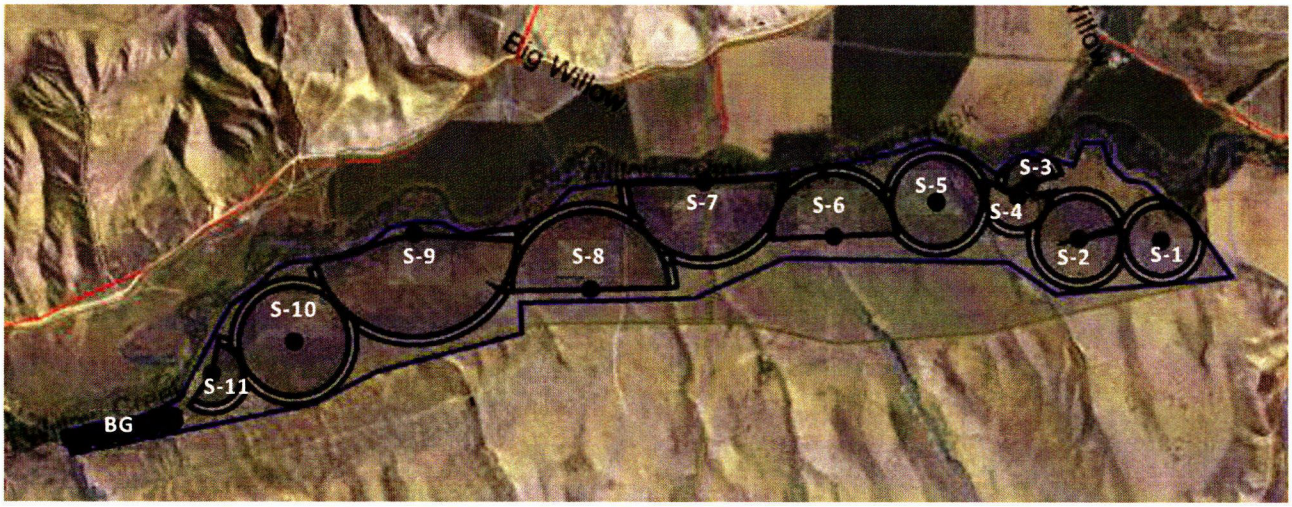
Pivot/Area	Acres
S-9	50.5
S-10	42.7
S-11	8.0
BG	6.0

107.2

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Big Willow- South Irrigation System



South Pivot System- 301 Irrigated Acres

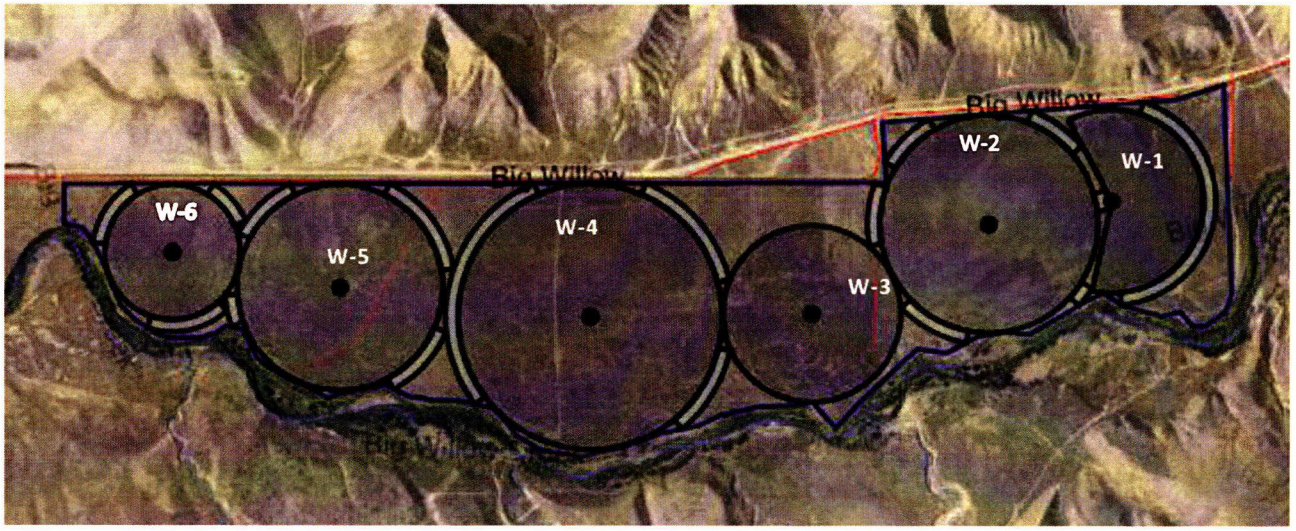
Pivot/Area	GPM
S-1	160
S-2	226
S-3	76
S-4	90

Pivot/Area	GPM
S-5	250
S-6	228
S-7	340
S-8	348

Pivot/Area	GPM
S-9	424
S-10	362
S-11	84
BG	Variable

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JUN 23 2023

Big Willow- West Irrigation System



West Pivot System- 333 Irrigated Acres

332.7

Pivot/Area	Acres
W-1 w/ BG	35.3
W-2	70.1

105.4

Pivot/Area	Acres
W-3	50.0
W-4	91.7

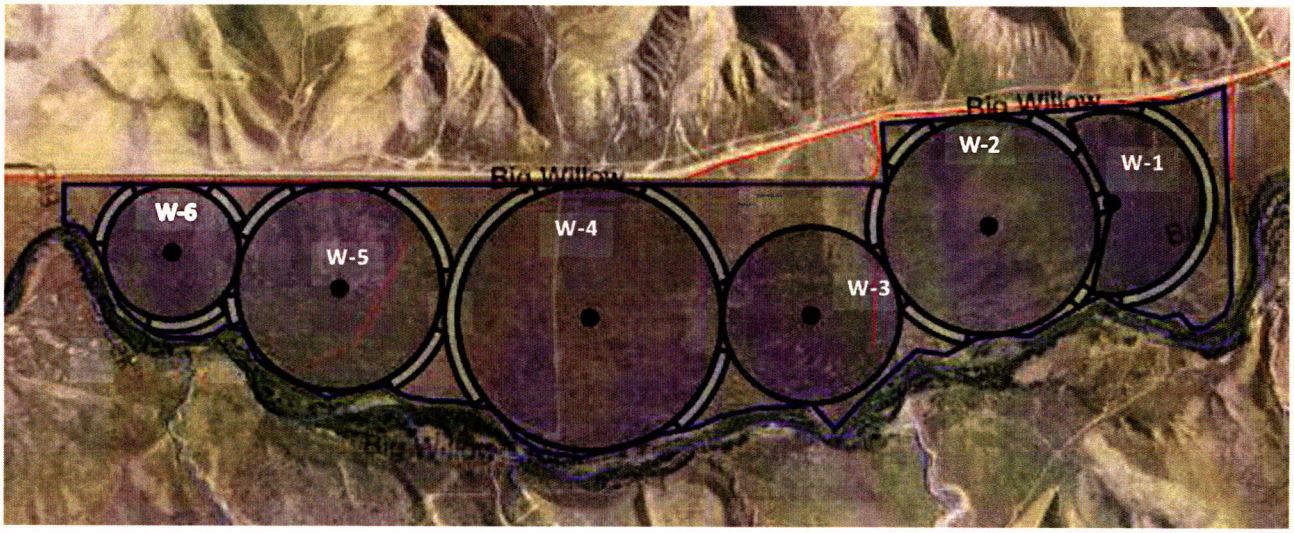
141.7

Pivot/Area	Acres
W-5	62.0
W-6	23.6

85.6

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Big Willow- West Irrigation System



West Pivot System- 333 Irrigated Acres

Pivot/Area	GPM
W-1 w/ BG	302
W-2	583

Pivot/Area	GPM
W-3	420
W-4	755

Pivot/Area	GPM
W-5	516
W-6	208

SCANNED
JUN 2 3 2023

Overlap Analysis for Permit No. 65-23479 POU

08N02W7

Process	BasinSequence	Draft	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	TotalAcres
Water Right	65-10533	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	BIG WILLOW CREEK	IRRIGATION	19		5														24
Water Right	65-10534	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	BIG WILLOW CREEK	IRRIGATION	19		5														24
Water Right	65-10535	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	BIG WILLOW CREEK	IRRIGATION	19		5														24
Water Right	65-10536	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	BIG WILLOW CREEK	IRRIGATION	19		5														24
Water Right	65-2204	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; CAMPBELL, SCOTT L; ROE, MICHAEL O; SCHWARZ, J G; SCHWARZ, KRISTIN	DRY CREEK	IRRIGATION	19		5														24
Water Right	65-22979	Y	BIG WILLOW RANCH LLC; NORTHWEST FARM CREDIT SERVICES FLCA; SCHWARZ, J G	DRY CREEK	IRRIGATION FROM STORAGE	15																15
Water Right	65-23479	Y	BIG WILLOW RANCH LLC; NORTHWEST FARM CREDIT SERVICES FLCA	DRY CREEK	IRRIGATION			16	27					11	1	3	2	6	26			92
Water Right	65-23479	Y	BIG WILLOW RANCH LLC; NORTHWEST FARM CREDIT SERVICES FLCA	DRY CREEK	IRRIGATION FROM STORAGE			16	27					11	1	3	2	6	26			92
Water Right	65-2500	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	BIG WILLOW CREEK	IRRIGATION	19		5														24
Water Right	65-2501	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	BIG WILLOW CREEK	IRRIGATION	19		5														24
Water Right	65-2601	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	SUCKER CREEK	IRRIGATION	19		5														24
Water Right	65-3125	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	BIG WILLOW CREEK	IRRIGATION	19		5														24
Water Right	65-3126	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	BIG WILLOW CREEK	IRRIGATION	19		5														24
Water Right	65-3127	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	BIG WILLOW CREEK	IRRIGATION	19		5														24
Water Right	65-3128	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	BIG WILLOW CREEK	IRRIGATION	19		5														24
Water Right	65-3247	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	DRY CREEK	IRRIGATION	19		5														24
Water Right	65-3248	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	DRY CREEK	IRRIGATION	19		5														24
Water Right	65-6712	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	GROUND WATER	DOMESTIC			X														
Water Right	65-7136	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	DRY CREEK	IRRIGATION	19		5														24
Water Right	65-7603	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	DRY CREEK	IRRIGATION FROM STORAGE	19		5														24
Water Right	65-7789	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	BIG WILLOW CREEK	IRRIGATION FROM STORAGE	19		5														24
Water Right	65-9076	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	BIG WILLOW CREEK	IRRIGATION	19		5														24

No overlap; specific to different 840 acres

Overlap, but different use, source, and POD; not pertinent

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JUN 23 2023

Overlap Analysis for Permit No. 65-23479 POU

08N02W8

Process	BasinSequence	Draft	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	TotalAcres
Water Right	65-10533	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	BIG WILLOW CREEK	IRRIGATION	4	10			11	31											56
Water Right	65-10534	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	BIG WILLOW CREEK	IRRIGATION	4	10			11	31											56
Water Right	65-10535	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	BIG WILLOW CREEK	IRRIGATION	4	10			11	31											56
Water Right	65-10536	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	BIG WILLOW CREEK	IRRIGATION	4	10			11	31											56
Water Right	65-2204	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; CAMPBELL, SCOTT L; ROE, MICHAEL O; SCHWARZ, J G; SCHWARZ, KRISTIN	DRY CREEK	IRRIGATION	4	10			11	31											56
Water Right	65-22979	Y	BIG WILLOW RANCH LLC; NORTHWEST FARM CREDIT SERVICES FLCA; SCHWARZ, J G	DRY CREEK	IRRIGATION FROM STORAGE	4	9			10	30											53
Water Right	65-23479	Y	BIG WILLOW RANCH LLC; NORTHWEST FARM CREDIT SERVICES FLCA	DRY CREEK	IRRIGATION	22	14	15	5	7		29	22									114
Water Right	65-23479	Y	BIG WILLOW RANCH LLC; NORTHWEST FARM CREDIT SERVICES FLCA	DRY CREEK	IRRIGATION FROM STORAGE	22	14	15	5	7		29	22									114
Water Right	65-2500	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	BIG WILLOW CREEK	IRRIGATION	4	10			11	31											56
Water Right	65-2501	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	BIG WILLOW CREEK	IRRIGATION	4	10			11	31											56
Water Right	65-2601	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	SUCKER CREEK	IRRIGATION	4	10			11	31											56
Water Right	65-3125	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	BIG WILLOW CREEK	IRRIGATION	4	10			11	31											56
Water Right	65-3126	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	BIG WILLOW CREEK	IRRIGATION	4	10			11	31											56
Water Right	65-3127	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	BIG WILLOW CREEK	IRRIGATION	4	10			11	31											56
Water Right	65-3128	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	BIG WILLOW CREEK	IRRIGATION	4	10			11	31											56
Water Right	65-3247	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	DRY CREEK	IRRIGATION	4	10			11	31											56
Water Right	65-3248	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	DRY CREEK	IRRIGATION	4	10			11	31											56
Water Right	65-6711	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	GROUND WATER	DOMESTIC	X																
Water Right	65-7136	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	DRY CREEK	IRRIGATION	4	10			11	31											56
Water Right	65-7603	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	DRY CREEK	IRRIGATION FROM STORAGE	4	10			11	31											56
Water Right	65-7789	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	BIG WILLOW CREEK	IRRIGATION FROM STORAGE	4	10			11	31											56
Water Right	65-9076	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	BIG WILLOW CREEK	IRRIGATION	4	10			11	31											56

No overlap; specific to different 840 acres

SCANNED
JUN 23 2023

Overlap Analysis for Permit No. 65-23479 POD

09N02W27

Process	BasinSequence	Draft	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	TotalAcres
Water Right	65-19822	N	UNITED STATES OF AMERICA ACTING THROUGH	SPRING		X																
Water Right	65-19824	N	UNITED STATES OF AMERICA ACTING THROUGH	SPRING					X													
Water Right	65-22979	Y	BIG WILLOW RANCH LLC; NORTHWEST FARM CREDIT SERVICES FLCA; SCHWARZ, J G	DRY CREEK														X				
Water Right	65-23479	Y	BIG WILLOW RANCH LLC; NORTHWEST FARM CREDIT SERVICES FLCA	DRY CREEK														X				
Water Right	65-7136	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	DRY CREEK														X				
Water Right	65-7603	N	BETTIS, HARRY L; BIG WILLOW RANCH LLC; SCHWARZ, J G; SCHWARZ, KRISTIN	DRY CREEK														X				

Overlap; same POD; conveyance capacity sufficient; no limits necessary

Overlap Analysis for Permit No. 65-23479 POU

09N02W27

Process	BasinSequence	Draft	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	TotalAcres
Water Right	65-19822	N	UNITED STATES OF AMERICA ACTING THROUGH	SPRING	STOCKWATER	X																
Water Right	65-19824	N	UNITED STATES OF AMERICA ACTING THROUGH	SPRING	STOCKWATER				X													
Water Right	65-22738	N	A L CATTLE INC; THOMPSON, TRAVIS L	DRY CREEK	STOCKWATER													X		X	X	
Water Right	65-22979	Y	BIG WILLOW RANCH LLC; NORTHWEST FARM CREDIT SERVICES FLCA; SCHWARZ, J G	DRY CREEK	IRRIGATION STORAGE							X	X	X	X		X		X	X		
Water Right	65-23479	Y	BIG WILLOW RANCH LLC; NORTHWEST FARM CREDIT SERVICES FLCA	DRY CREEK	IRRIGATION STORAGE							X	X	X	X		X		X	X		

Overlap; reflects that both WRs use the same reservior; combine use not to exceed 1860 AF limit

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Overlap Analysis for Permit No. 65-23479 POU

08N03W14

Process	BasinSequence	Draft	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	TotalAcres
Water Right	65-23479	Y	BIG WILLOW RANCH LLC; NORTHWEST FARM CREDIT SERVICES FLCA	DRY CREEK	IRRIGATION	19	14			9												42
Water Right	65-23479	Y	BIG WILLOW RANCH LLC; NORTHWEST FARM CREDIT SERVICES FLCA	DRY CREEK	IRRIGATION FROM STORAGE	19	14			9												42

Overlap Analysis for Permit No. 65-23479 POU

08N03W13

Process	BasinSequence	Draft	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	TotalAcres
Water Right	65-23479	Y	BIG WILLOW RANCH LLC; NORTHWEST FARM CREDIT SERVICES FLCA	DRY CREEK	IRRIGATION						14											14
Water Right	65-23479	Y	BIG WILLOW RANCH LLC; NORTHWEST FARM CREDIT SERVICES FLCA	DRY CREEK	IRRIGATION FROM STORAGE						14											14

Overlap Analysis for Permit No. 65-23479 POU

08N03W12

Process	BasinSequence	Draft	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	TotalAcres
Water Right	65-23479	Y	BIG WILLOW RANCH LLC; NORTHWEST FARM CREDIT SERVICES FLCA	DRY CREEK	IRRIGATION									16		33	39	3	20	30	5	146
Water Right	65-23479	Y	BIG WILLOW RANCH LLC; NORTHWEST FARM CREDIT SERVICES FLCA	DRY CREEK	IRRIGATION FROM STORAGE									16		33	39	3	20	30	5	146
Water Right	65-23583	N	BIG WILLOW RANCH LLC	BIG WILLOW CREEK	STOCKWATER													X				

No overlap; east of POU

Overlap Analysis for Permit No. 65-23479 POU

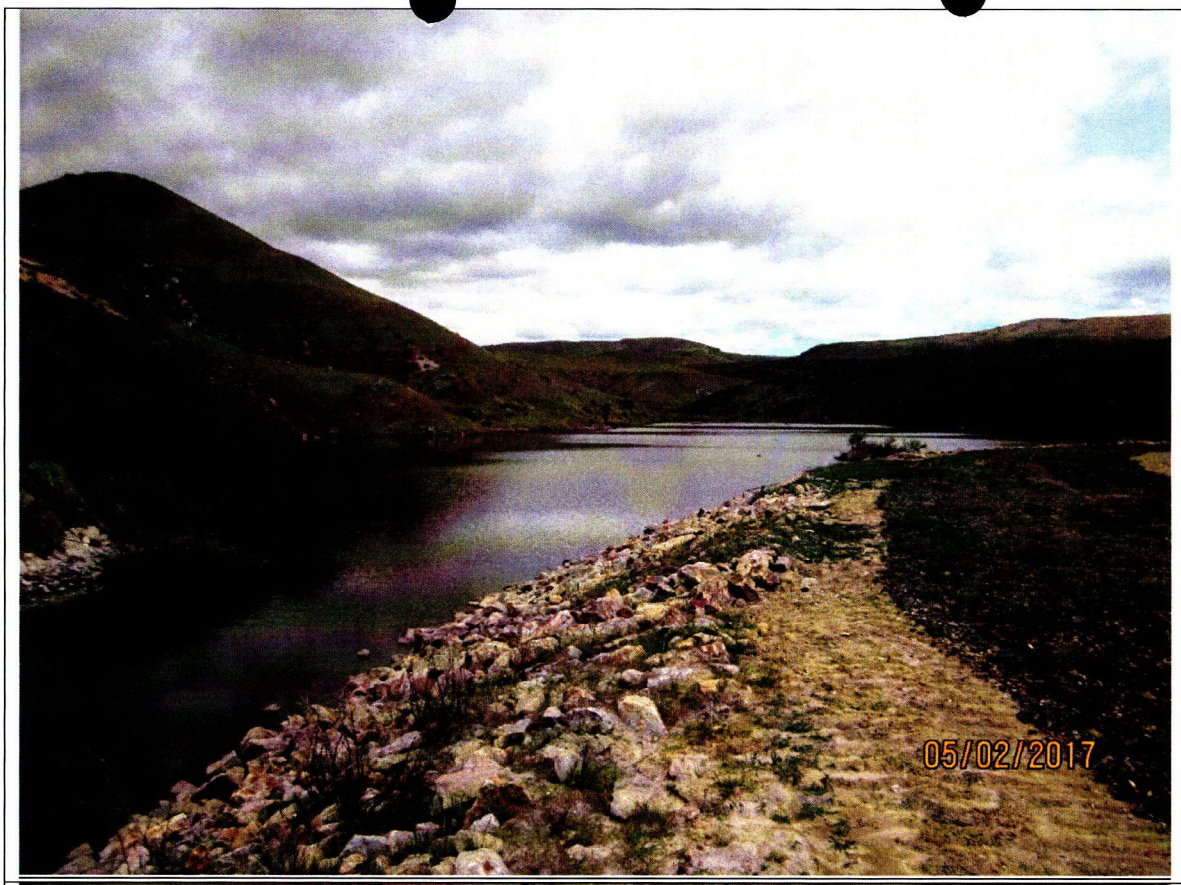
08N03W11

Process	BasinSequence	Draft	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	TotalAcres
Water Right	65-23479	Y	BIG WILLOW RANCH LLC; NORTHWEST FARM CREDIT SERVICES FLCA	DRY CREEK	IRRIGATION											24	38	1		34	35	132
Water Right	65-23479	Y	BIG WILLOW RANCH LLC; NORTHWEST FARM CREDIT SERVICES FLCA	DRY CREEK	IRRIGATION FROM STORAGE											24	38	1		34	35	132

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Water Right No.	Diversion Rate	Source List	Water Use List	Total Acres	Acre Limit	Volume	AF/ACRE	H.G.R.	Overlap
65-23479	150.000	DRY CREEK	DIVERSION TO STORAGE, IRRIGATION FROM STORAGE, IRRIGATION STORAGE, IRRIGATION	634.0	634.0	1,800.0	2.84	5.0	89
65-7603	10.000	DRY CREEK	DIVERSION TO STORAGE, IRRIGATION FROM STORAGE, IRRIGATION STORAGE	840.0	840.0	660.0	0.79		
				Total	1,385.0	6,925.0	3.62		

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Diversion Dam instream of Dry Creek.



Wheel gate that is used to release water on through to Dry Creek below the dam.

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Discharge water at the toe of the Diversion Dam. Water continues on in Dry Creek.



Gate structure that allows diversion to the feeder canal. Stop logs are placed in the concrete slits to regulate flow to the canal.

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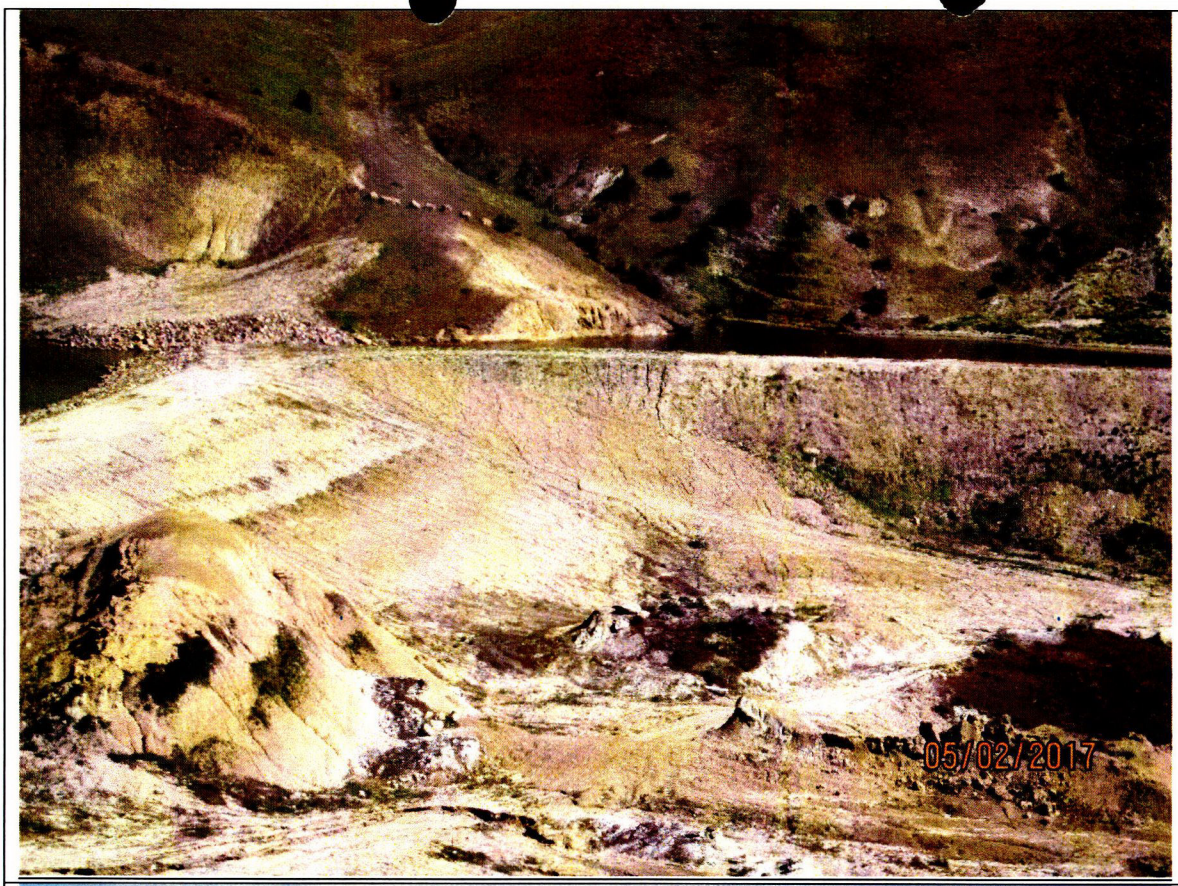


Downstream side of the gate structure.



Feeder canal to Dry Creek Reservoir. A & E Engineering suggest a maximum capacity of the canal to be 300 cfs.

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Entrance into Dry Creek Reservoir from the feeder canal.



Acreage long Dry Creek Road where the pivots are located.

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One of the many pivots within the place of use.



End gun located along the Dry Creek Road acreage.

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