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Idaho Water Resource Board



Meeting No. 5-14
May 16, 2014
Boise, Idaho

MEDIA



AGENDA

IDAHO WATER RESOURCE BOARD MEETING NO. 5-14

May 16, 2014 at 8:00 am

Idaho Water Center
Conference Rooms 602 B,C,D
322 East Front St, Boise, ID 83702

C.L. "Butch" Otter
Governor

Roger W. Chase
Chairman
Pocatello
District 4

Peter Van Der Meulen
Vice-Chairman
Hailey
At Large

Bob Graham
Secretary
Bonners Ferry
District 1

**Charles "Chuck"
Cuddy**
Orofino
At Large

Vince Alberdi
Kimberly
At Large

Jeff Raybould
St. Anthony
At Large

Albert Barker
Boise
District 2

John "Bert" Stevenson
Rupert
District 3

1. Roll Call
2. Executive Session – Board will meet pursuant to Idaho Code § 67-2345 (1) subsections (c) and (f), for the purposes of considering the acquisition of an interest in real property not presently owned by a public agency and to communicate with legal counsel regarding legal ramifications of and legal options for pending litigation, or controversies not yet being litigated but imminently likely to be litigated. Executive Session is closed to the public.

Following adjournment of Executive Session -- meeting reopens to the public

3. Agenda and Approval of Minutes 3-14
4. Public Comment
5. Water Supply Update
6. Water District 02 WaterSMART Grant Update
7. Committee Reports
 - a. Water Resource Planning
 - b. Upper Snake River Advisory
8. Water Supply Bank and Rental Pools
 - a. Rental Pool Annual Report
 - b. Committee Appointments
9. Use of the Secondary Aquifer Fund
 - a. ESPA Recharge Plan
 - b. Hydrologic Modeling and Monitoring
10. Financial Programs
 - a. Status Update
11. Aqua Life Hatchery
12. Pristine Springs
13. Recharge Update
14. Storage Studies
15. Idaho's Missing Mountain Water- *presentation by Charlie Luce, USFS*
16. IDWR Director's Report
17. Other Non-Action Items for Discussion
18. Next Meetings and Adjourn

Americans with Disabilities

The meeting will be held in facilities that meet the accessibility requirements of the Americans with Disabilities Act. If you require special accommodations to attend, participate in, or understand the meeting, please make advance arrangements by contacting Department staff by email Mandi.Pearson@idwr.idaho.gov or by phone at (208) 287-4800.

322 East Front Street, Boise, Idaho 83720 Tel: (208) 287-4800 Fax: (208) 287-6700

MATERIALS FOR THIS SECTION WILL BE PROVIDED AT THE MEETING.



IDAHO WATER RESOURCE BOARD

MEETING MINUTES 3-14

C.L. "Butch" Otter
Governor

Idaho Water Center
Conference Rooms 602 B, C, and D
322 East Front Street, PO Box 83720, Boise, Idaho 83720

Roger W. Chase
Chairman
Pocatello
District 4

March 20, 2014
Work Session

Peter Van Der Meulen
Vice-Chairman
Hailey
At Large

Chairman Roger Chase called the meeting to order at approximately 8:30 am. Pete Van Der Meulen was absent. All other Board members were present.

During the Work Session the following items were discussed:

- Water Supply Update by Liz Cresto
- Lemhi River Ground Water-Surface Water Interaction Study by Alison Burnop
- Water Supply Bank by Remington Buyer
- Storage Studies Update by Cynthia Bridge Clark
- Henrys Fork Basin Study Results by Bob Schattin
- ESPA Management by Neal Farmer and Neeley Miller

Bob Graham
Secretary
Bonners Ferry
District 1

No action was taken by the Board during the Work Session.

March 21, 2014
IWRB Meeting

Charles "Chuck"
Cuddy
Orofino
At Large

Chairman Roger Chase called the meeting to order at approximately 7:30 am. Pete Van Der Meulen was absent. All other Board members were present.

Vince Alberdi
Kimberly
At Large

Agenda Item No. 1, Roll Call

Jeff Raybould
St. Anthony
At Large

Board Members Present

Albert Barker
Boise
District 2

Roger Chase, Chairman
Bob Graham, Secretary
Vince Alberdi
Albert Barker

Jeff Raybould
Chuck Cuddy
Bert Stevenson

John "Bert" Stevenson
Rupert
District 3

Staff Members Present

Gary Spackman, Director
Brian Patton, Planning Bureau Chief
Helen Harrington, Planning Section Manager
Clive Strong, Deputy Attorney General
Harriet Hensley, Deputy Attorney General
Garrick Baxter, Deputy Attorney General

Cynthia Bridge Clark, Engineer
Mandi Pearson, Administrative Assistant

Remington Buyer, Water Supply Bank Coordinator

Guests Present

Walt Poole, Idaho Fish and Game	Aileen Frey, Weiser River Trail
Jon Bowling, Idaho Power	Dick Frencer, Boise Valley Fly Fishers
Hal Anderson, Idaho Water Engineering	Jim Nunley, Idaho Wildlife Federation
Liz Paul, Idaho Rivers United	Lynn Tominaga, Idaho Ground Water Association
Mark Mendenhall, US Army Corps of Engineers	

Agenda Item No. 2, Agenda and Approval of Minutes

At approximately 7:35 am the Board resolved into Executive Session by unanimous consent pursuant to Idaho Code Section 67-2345 (1) subsections (c) and (f), for the purposes of considering the acquisition of an interest in real property not presently owned by a public agency and to communicate with legal counsel regarding legal ramifications of and legal options for pending litigation, or controversies not yet being litigated but imminently likely to be litigated. No action was taken by the Board during the Executive Session. The Board resolved out of Executive Session and into Regular Session at approximately 9:00am.

Agenda Item No. 3, Agenda and Approval of Minutes

There were no additions or deletions from the agenda. Mr. Stevenson made a motion that the minutes for meetings 1-14 and 2-14 be approved as printed. Mr. Raybould seconded the motion. Voice Vote. All were in favor. Motion passed.

Agenda Item No. 4, Public Comment

Chairman Chase opened up the meeting for public comment. Mr. Dick Frencer of Boise Valley Fly Fishers discussed concerns regarding the effect of raising Arrowrock Dam and discussed conserving water by changing irrigation methods and planning practices. There was discussion among the parties regarding incidental recharge and flood control.

Jim Nunley of Idaho Wildlife Federation addressed the Board. He expressed concerns regarding the possibility of dam building on the Boise River and Weiser River. He suggested that conservation practices should be encouraged. He discussed wildlife and cost issues that should be addressed before building new dams. There was discussion regarding the importance of studies.

Aileen Frey, of Friends of the Weiser River Trail addressed the Board. She provided information regarding the Weiser River Trail and discussed the impacts that building a dam on the Weiser River would have on the trail. There was discussion among the parties regarding the Weiser River Trail newsletter.

Liz Paul of Idaho Rivers United expressed concerns regarding the emphasis on building new storage capacity. She encouraged conservation practices as an alternative solution to water supply issues. She shared a video discussing the importance of the Boise River to the lives of residents of the Boise Valley. There was discussion among the parties regarding the return flows from the Boise River.

Agenda Item No. 5, Legislative Update (*Garrick Baxter, Deputy Attorney General*)

Mr. Baxter provided an update on the most recent legislative session. He discussed RS22415, Water Remediation, which was withdrawn; RS 22416, Managed Ground Water Recharge, which was held in committee; House Bill 410, Injection Well Definition Amendment, which was signed into law by the Governor; House Bill 411, Returning Applications to Appropriate Water in Moratorium Areas, which was held in committee; House Bill 412, Director Qualifications, which was signed into law by the Governor; House Bill 479, IDWR/ IWRB Add'l Appropriation, which was signed into law by the

Governor; House Bill 513, Distribution of Cigarette Tax Funds to Aquifer Recharge Planning & Management, which was replaced by H547; House Bill 547, Distribution of Remaining Cigarette Tax Revenue, which was signed into law by the Governor; House Bill 526, Applications for Aquifer Recharge/ Public Waters Use, which has been transmitted to the Governor; House Bill 618, IDWR Appropriation, which has been transmitted to the Governor; House Bill 644, Dept of Parks & Recreation Sale of Aqua Life Aquaculture Facility to IWRB, which has been transmitted to the Governor; House Concurrent Resolution 57, CSRBA Coeur d'Alene Tribe-Federal Water Rights Negotiations, which was replaced by HCR62; House Concurrent Resolution 62, CSRBA Coeur d'Alene Tribe- Federal Water Rights Negotiations, which was passed by the House and Mr. Baxter was unsure if it was passed in the Senate; Senate Bill 1345, Conditions for Crediting a Water Right for Releases & Diversions, which was held in Committee; and Senate Bill 1412, Use as Storage of Water, which was also held in Committee.

There was discussion among the parties regarding the Columbia Basin Treaty Resolution.

Agenda Item No. 6, Committee Reports

a. Water Resource Planning *(Helen Harrington, Staff)*

Ms. Harrington provided a short update on the activities of the Water Resource Planning Committee. Since November 2013, the Water Resource Planning Committee has met three times to continue progress on the Idaho State Water Plan revisions and to develop a recommendation for integrating Sustainability into the Idaho State Water Plan. Ms. Harrington discussed the proposed revisions and stated that the committee will be developing recommended revisions for submission to the Board. There was discussion regarding the timeline and the hearings that are required. She expressed appreciation for the Committee Chairman Raybould and Committee members. There was discussion regarding scheduling the next committee meeting.

Ms. Harrington provided an update on the most recent panel discussion on the concept and perspectives of different interests regarding sustainability. A third presentation will be planned in the near future. Mr. Raybould expressed appreciation for staff's work on these tasks, and reiterated the importance of keeping the process moving.

b. Water Supply Bank *(Brian Patton, Staff)*

The Water Supply Bank Committee met on March 6, 2014, and heard an Annual Report for the Water Supply Bank, as well as a Financial Report, Bank initiatives for 2014, and Procedural Guidance. Committee Chairman Alberdi expressed appreciation for staff and their work in providing structure for Bank activities, as well as for Committee members' work on these tasks.

c. Finance *(Brian Patton, Staff)*

The Finance Committee met on March 20, 2014 following adjournment of the Work Session. The Committee developed a recommendation for a restructuring of the Board's loan interest rates. There was discussion among the parties regarding whether the approval would be in the form of a motion or a resolution. Committee Chairman Graham discussed the recommendation of the committee to reduce the rates to 3.5% and to eliminate the dual rates.

d. Upper Snake River Advisory *(Brian Patton, Staff)*

The Upper Snake River Advisory Committee met on February 27, 2014 and was well attended. Upper Snake operations, releases from Palisades, water supply projections, and hydropower generation were among the topics discussed. The next meeting is scheduled for April 11, 2014.

Agenda Item No. 7, Planning Programs

a. South Fork Clearwater River Basin Plan- Crooked River Rehabilitation Project *(Helen Harrington, Staff)*

Ms. Harrington gave a brief overview of Comprehensive Basin Plans. She discussed the proposed project on the Crooked River Recreational Reach. The US Forest Service has proposed a stream channel reconstruction project on the Crooked River within the IWRB-designated reach. The purpose of this project is to improve habitat for Endangered Species Act-listed steelhead and bull trout, as well as spring/summer Chinook salmon and cutthroat trout. The project is developed with the Nez Perce Tribe and would be funded by Bonneville Power Administration. The Crooked River Recreational River designation contained in the South Fork Clearwater River Comprehensive State Water Plan explicitly allows for channel reconstruction projects if approved by the IWRB. Staff recommends approval of this proposed project through a resolution.

Mr. Cuddy made a motion to adopt the resolution in the matter of the US Forest Service Crooked River Rehabilitation Project. Mr. Barker seconded the motion. Voice Vote. All were in favor. Motion passed.

Agenda Item No. 8, Financial Program

a. Status Update *(Brian Patton, Staff)*

The Board has about \$17.6 million committed but not disbursed, about \$16.1 million total loan principal outstanding, and a total uncommitted balance of about \$5 million dollars. Mr. Patton discussed loans that have been repaid, as well as potential loans.

b. Interest Rate *(Brian Patton, Staff)*

Mr. Patton discussed the proposed restructuring of the Board's interest rate from the current 5.5% and 6% rates to 3.5%. Mr. Graham moved to approve the loan interest rate reduction to a single rate at 3.5% for the next year and to review the rate in a year. Mr. Raybould seconded the motion.

Roll Call Vote: Mr. Cuddy: Aye; Mr. Alberdi: Aye; Mr. Stevenson: Aye; Mr. Raybould: Aye; Mr. Van Der Meulen: Absent; Mr. Graham: Aye; Mr. Barker: Aye; Chairman Chase: Aye. Motion passed.

Agenda Item No. 9, Water Supply Bank *(Remington Buyer, Staff)*

Mr. Buyer provided a brief review of the Water Supply Bank topics discussed during the Work Session. He discussed an amendment made to the Procedural Guidance Memo.

Mr. Barker made a motion to approve Water Supply Bank Memo No. 2 as amended. Mr. Alberdi seconded the motion.

Roll Call Vote: Mr. Cuddy: Aye; Mr. Alberdi: Aye; Mr. Stevenson: Aye; Mr. Raybould: Aye; Mr. Van Der Meulen: Absent; Mr. Graham: Aye; Mr. Barker: Aye; Chairman Chase: Aye. Motion passed.

Agenda Item No. 10, Water District 01 Rental Pool Procedures *(Remington Buyer, Staff)*

Mr. Alberdi made a motion to adopt the resolution approving the local Rental Pool Procedures for Water District No. 1. Mr. Raybould seconded the motion. Voice Vote. All were in favor. Motion passed.

Agenda Item No. 11, Galloway Project *(Cynthia Bridge Clark, Staff)*

Ms. Clark discussed the Federal Energy Regulatory Commission (FERC) Application for Preliminary Permit for the Weiser-Galloway Hydroelectric and Water Storage Project. The purpose of a preliminary permit is to allow potential applicants to secure data and perform the necessary investigations that are required to determine the feasibility of the project. This does not grant land disturbing rights or other rights. This permit will preserve the right of the permit holder to have first priority in applying for a license of the project being studied. This application is not a determination of the feasibility of the project. There was discussion among the parties regarding changes to the resolution to include "municipal preference."

Mr. Raybould moved to adopt the resolution in the matter of the FERC Application for

Preliminary Permit for the Weiser-Galloway Hydroelectric and Water Storage Project, with the suggested amendment to include municipal preference. Mr. Barker seconded the motion. There was further discussion regarding public notice clarifying the intent of this application. Voice Vote. All were in favor. Motion passed.

Agenda Item No. 12, IDWR Director's Report (*Gary Spackman, Director*)

Director Spackman discussed the possibility of the Board partnering with others to develop infrastructure for ground water recharge. Specifically, Mid-Snake Water Resource Commission is willing to partner with the Board. Mr. Alberdi and Mr. Stevenson provided further background on the Commission. There was discussion among the parties regarding follow-up with Mid-Snake Water Resource Commission. Director Spackman discussed complexities regarding staff positions to accommodate the increased workload. There was discussion among the parties regarding next year's budget and the possibility of requesting additional funding, as well as the expectations of the legislature regarding the additional funding that was provided to the Board.

Mr. Patton discussed a Managed Recharge Plan that provides a time table and cost estimates for Managed Recharge, which will be discussed at the May Board meeting. There was discussion among the parties regarding the Managed Recharge Plan.

Director Spackman also discussed the Inter-Governmental Board Meeting that he attended recently. This meeting along with outreach from Department and Board staff has resulted in a good relationship with the Shoshone-Bannock tribes. Director Spackman discussed an issue regarding allocation of storage and possible impact on the tribe. There was discussion among the parties regarding this issue.

Agenda Item No. 13, Other Non-Action Items for Discussion

Mr. Alberdi discussed the importance of publically responding to concerns brought up during the public comment period. He suggested the possibility of putting together a video that explains the merits of dams. There was discussion among the parties regarding this issue.

Agenda Item No. 14, Next Meetings and Adjourn

The Board will be attending a tour at the Mountain Home Air Force Base on April 2, 2014. May 14-15, 2014 is a planned trip to the Hells Canyon Complex with Idaho Power. The next regularly scheduled meeting is May 16th in Boise. The Board will be meeting July 17-18, 2014 in Bonners Ferry and on September 18-19, 2014 in Boise. There was discussion among the parties regarding other events planned for the year. Mr. Alberdi made a motion to Adjourn, and Mr. Barker seconded the motion. Voice Vote. All were in favor. Motion Carried.

The IWRB Meeting 3-14 adjourned at approximately 12:15 pm.

Respectfully submitted this _____ day of May, 2014.

Bob Graham, Secretary

Mandi Pearson, Administrative Assistant II

Board Actions:

1. Mr. Stevenson made a motion that the minutes for meetings 1-14 and 2-14 be approved. Mr. Raybould seconded the motion. Voice Vote. All were in favor. Motion passed.
2. Mr. Cuddy made a motion to approve the resolution in the matter of the US Forest Service Crooked River Rehabilitation Project. Mr. Barker seconded the motion. Voice Vote. All were in favor. Motion passed.
3. Mr. Graham moved to approve the loan interest rate reduction to a single rate at 3.5% for the next year and to review the rate in a year. Mr. Raybould seconded the motion. Roll Call Vote. 7 Ayes, 1 Absent. Motion passed.
4. Mr. Barker made a motion to approve Water Supply Bank Memo No. 2 as amended. Mr. Alberdi seconded the motion. Roll Call Vote. 7 Ayes, 1 Absent.
5. Mr. Alberdi made a motion to adopt the resolution approving the local Rental Pool Procedures for Water District No. 1. Mr. Raybould seconded the motion. Voice Vote. All were in favor. Motion passed.
6. Mr. Raybould moved to adopt the resolution in the matter of the FERC Application for Preliminary Permit for the Weiser-Galloway Hydroelectric and Water Storage Project, with an amendment to include municipal preference. Mr. Barker seconded the motion. Voice Vote. All were in favor. Motion passed.

DUE TO THE CHANGING NATURE OF
IDAHO'S WATER SUPPLY, UP-TO-DATE
MATERIALS WILL BE PROVIDED AT THE
MEETING

Memorandum

To: Idaho Water Resource Board (IWRB)

From: Neeley Miller, IDWR Planning Bureau

Date: May 5, 2014

RE: WaterSmart Grant Status Report



Background on Phase-One

At the January 2013 meeting of the Idaho Water Resources Board (IWRB or Board), Board members were briefed about the creation of Water District 02 (WD02) and a coordinated effort among district water users and both IDWR and IWRB staff to secure cost share funding through a US Bureau of Reclamation (BOR) WaterSmart grant to assist with the installation of measuring devices and telemetry equipment for diversions in the district.

WD02 was created in July, 2012. The district will provide for the administration of water rights from the Snake River between Milner and Swan Falls Dams. Measurement and regulation of diversions in the district is one of a number of tools that the State can employ to help maintain the IWRB's minimum in-stream flow at the Murphy Gage in accordance with the Swan Falls Agreement.

In May 2013 the BOR announced that the IWRB Water Smart proposal for phase-one would receive funding in the amount of \$151,425. In September we finalized the Financial Assistance Agreement with the BOR and all project regulatory compliance was completed under budget. The total budget for phase-one is \$352,152, with \$200,726 coming from water users and \$151,425 coming from the BOR.

Progress on Phase-One

Last fall cost-reimbursement contracts were put in place with all of the 15 non-federal entities participating in phase-one of the project. Purchasing and installation of measurement devices and telemetry equipment began in November 2013. Installation and calibration of equipment is on-going and will continue through summer/fall 2014.

Non-Federal entities	Non-Fed	BOR	Total	% Complete
1. Grand View Irrigation District	\$3,568	\$2,692	\$6,260	25%
2. Grand View Mutual Canal Co.	\$8,043	\$6,067	\$14,110	50%
3. Upper Grand View Canal Co.	\$7,146	\$5,391	\$12,537	70%
4. Snake River Irrigation District	\$10,707	\$8,077	\$18,784	50%

5. Indian Cove Irrigation District	\$11,068	\$8,350	\$19,418	0%
6. South Elmore Irrigation Co.	\$15,136	\$11,418	\$26,554	70%
7. Clover Hollow Co.	\$10,291	\$7,764	\$18,055	70%
8. Little Valley Mutual Irrigation Co.	\$7,146	\$5,391	\$12,537	70%
9. Bybee Lateral Water Users Assoc.	\$11,068	\$8,350	\$19,418	70%
10. J R Simplot Co. (7 stations)	\$68,596	\$51,747	\$120,343	70%
11. Black Mesa Farms LLC	\$7,146	\$5,391	\$12,537	70%
12. Salmon Falls Land & Livestock Co.	\$7,146	\$5,391	\$12,537	70%
13. Flying H Farms (2 stations)	\$13,467	\$10,159	\$23,626	70%
14. Michael James	\$8,892	\$6,708	\$15,600	70%
15. Andrew Johnson	\$11,306	\$8,529	\$19,835	25%
TOTALS	\$200,726	\$151,425	\$352,152	

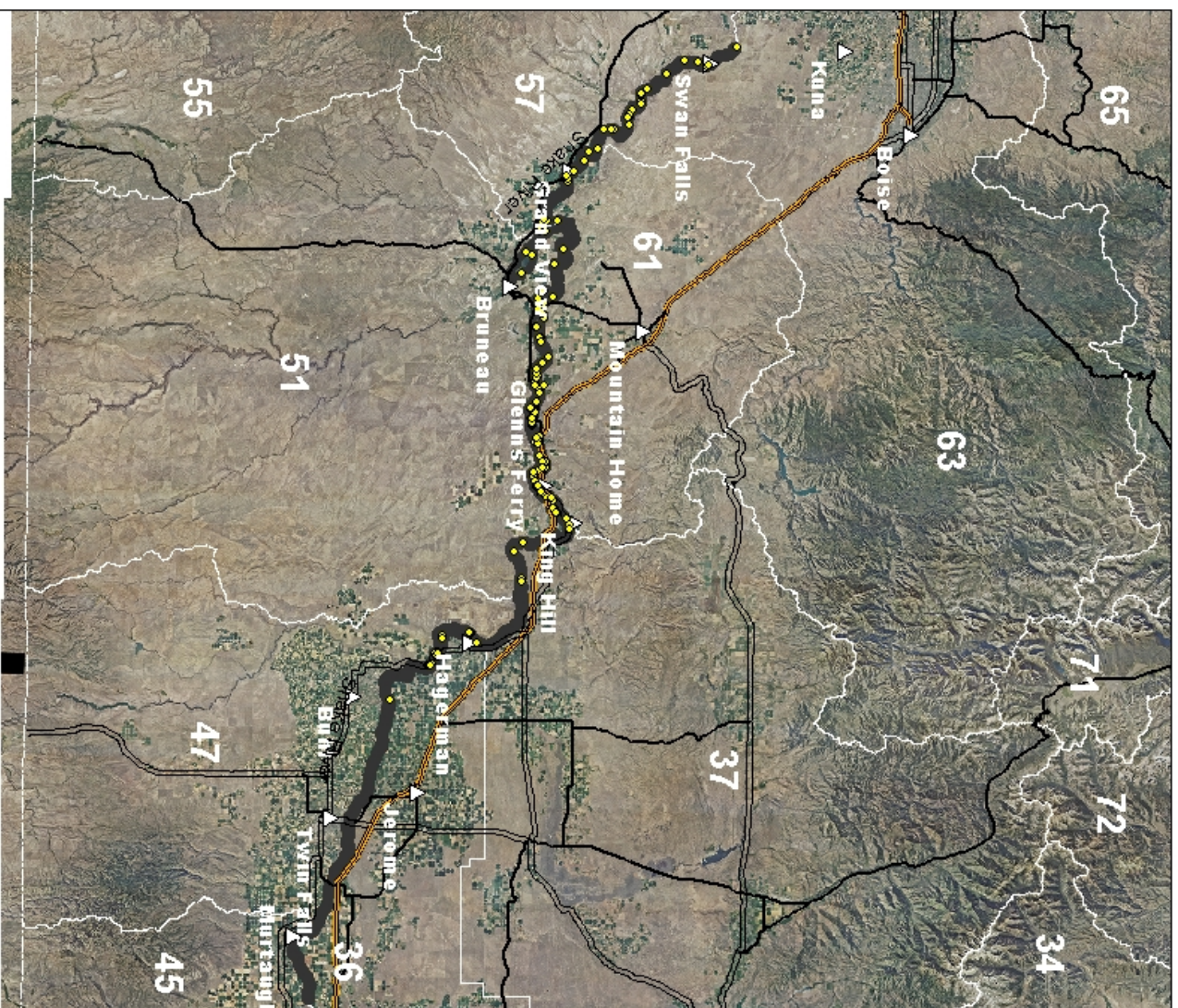
Phase-two

At the January 2014 Board meeting, Board members were briefed on phase-two of this project. Board staff worked with WD02 and BOR to submit a second grant application (phase-two) in January 2014 to address the remaining large diversions in the district. We anticipate the BOR will announce funding awards sometime in May/June 2014.

Similar to phase-one, the WaterSmart grant application for phase-two requires a 50+% match by the applicant. The WaterSmart application requested approximately \$300,000 in federal cost share, with the balance of the costs (approximately \$360,000) to be provided by the water users in WD02. The Board will have no financial obligation other than the cost of staff time to work with WD02 to administer the grant funds.

Attached to this memo are: 1) Map of Water District 02, Snake River from Milner Dam to Murphy Gage, and 2) A Summary of Work Completed on Phase-One through April 2014.

Water District No. 2 **Snake River from Milner Dam** **to Murphy Gage below** **Swan Falls Dam**

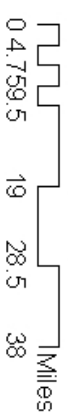


Legend

- Water Right Irrig Diversion Points
- Cities
- WD 02: Snake R - Milner to Murphy
- IDWR Administrative Basins

Major Roads

- Interstate
- U.S.
- State



Prepared by: IDWR/T. Luke/Jan. 2013
 Imagery: 2009 NAIP

Water Smart Grant April 2014
Phase-One Work Completed through April 2014

Grand View Irrigation District:

Grand View Irrigation District is one of three large canal systems out of CJ Strike Reservoir. This site was constructed in the 1950's and has a suppressed weir blade installed that would be considered non-standard by the BOR due to shallow weir pool and downstream conditions directly below the weir blade. Currently this site is monitored by Idaho Power under contract with the Idaho Department of Water Resources. Plans under the grant for this site included replacement of the weir blade, or increasing the pool depth and bottom contraction requirements for this type of device. After the project manager re-visited this site it was determined to utilize the 2014 season to better understand the accuracy curve for this existing device. No telemetry equipment for this site has been purchased but will be in the future. Existing infrastructure installed in the late 80's by the USGS may be utilized to house this equipment at a future date. 25% project completion at this site.

Grand View Mutual:

Grand View Mutual Canal Company (GVMCC) is the second of the two large canals that divert out of the Idaho Power canal on the south side of CJ Strike Reservoir. An acoustic Doppler unit was originally planned at the head of the canal, but changes made to this plan moved the same type of device downstream $\frac{1}{4}$ mile from the headgate. The GVMCC constructed a 16 X 20 X 8 foot rectangular structure to install a RDI Acoustic Doppler Channel Master into. This device has been installed since water was first turned into the canal in 2014. The meter runs off of 12 volt DC power supply and currently is programmed and running off a deep cycle battery. Additional work at this site will include the installation of solar panels along with the telemetry and data logging equipment. The canal ditch rider requested a digital display for this site for his reference in operating the canal. This site will be fully functional from a standalone system for measurement by the second week of May. This canal is also being measured by Idaho Power under contract with IDWR for calibration purposes during the 2014 irrigation season. 50% project completion at this site.



Upper Grand View Mutual:

Ultrasonic equipment was planned for this site and has been installed. A power supply of AC power had to be brought in and the equipment panels have been installed. The GE Panametrics AT868 dedicated clamp on ultrasonic flow meter has been installed and checked by FloSonics (Inc.) for accuracy and installation specifications. A 96 inch CMP manhole covers the pipeline and has been installed. Item remaining on this site include the data logging and telemetry equipment. 70% project completion at this site.

Snake River Irrigation District:

A broad crested weir was initially planned for SRID, but after further site evaluation from Brian Sauer with the BOR it was determined that this site was not ideal for this type of structure. Changes to the system for measurement included a RDI Acoustic Doppler Channel Master installed into a 14 foot existing rectangular structure. The meter runs off of 12 volt DC power supply and currently is programmed and running off a deep cycle battery. Additional work here will include the installation of solar panels along with the telemetry and data logging equipment. The canal ditch rider requested a digital display for this site for his reference in operating the canal. This site will be fully functional as a standalone system for measurement by the second week of May. 50% project completion at this site.



Indian Cove Irrigation District:

This river station has not had any work completed other than exposure of the two 30 inch concrete penstock. Originally plans were to install a dual channel ultrasonic flow meter on steel pipe, but due to the age of the system little was known about the penstock. After exposing the line in February of 2014 it was determined this site would need some additional time to complete the installation of the flow metering equipment. Further evaluation of this site will take place during the 2014 irrigation season with open channel type measurements as well as further evaluation of a closed conduit measurement. The equipment work is slated to be completed before the end of the 2014 calendar year, no equipment or money has been used for this diversion. 0% project completion at this site.

Clover Hollow-South Elmore:

Clover Hollow and South Elmore stations and five penstocks run parallel up the hill to two open canals. Originally the plan was to install clamp-on ultrasonic metering equipment, but after the penstocks were exposed near the canal heading it was determined due to the corrosion on the exterior of the pipe that a wetted ultrasonic installation would be better option long term. This change did increase the cost of the metering and installation due to additional labor involved in drilling one inch holes on a 45 degree angle in the pipe to install the wetted transducers. This work has been completed and two GE Panametrics dual channel and one single channel AT868 ultrasonic flow meter are measuring water. The ultrasonic flow meter has been checked by FloSonics (Inc.) for accuracy and installation specifications. Additional changes to this site included the use of a 24 volt DC (140 watt solar array) powered system along with four 90 amp hour deep cycle 12 volt batteries. The measurement location at these two sites was not conducive to using AC power due to costs. Conduit and RG62 cable have been installed along with panels for equipment. 70% project completion at this site.





Little Valley Mutual:

Little Valley Mutual canal utilizes a 42" steel penstock for delivery into an open canal. This site is right off State Highway 78 near the Bureau of Land Management Cove campground. The location of this site is remote and utilizes a 24 volt DC (140 watt solar array) power supply. A 96 inch CMP enclosure has been installed along with the GE Panametrics AT868 dedicated ultrasonic flow meter that has been checked by FloSonics (Inc.) for accuracy and installation specifications. Items remaining at this site include installation of the data-logging and telemetry equipment. 70% project completion at this site.





Bybee Lateral Association:

This site is located just upstream of the CJ Strike Reservoir. Initially, the plan was to have ultrasonic flow metering equipment on three penstocks, but the users chose to install a broad crested weir instead. This weir has been installed based on a drawing completed by Brian Sauer of the BOR's Snake River field office in Boise, ID. Construction was completed in January of 2014 and water first ran over the device in April. Along with the weir construction was a stilling well and pressure transducer installation. This is a DC powered recorder and will require electrical work to be done at the pumping station to accommodate the logger and telemetry equipment. Not part of the grant but a useful tool to verify flows over the newly constructed weir, users replaced two of the three penstocks over the winter and provided a measurement location on new penstock for calibration and/or verification of the rating table constructed for the new weir. Items remaining to be completed at this site include installation of logger and telemetry equipment along with a digital display for flow rate to be utilized by the ditch rider operating this pumping station. 70% project completion at this site.





JR Simplot Company:

The JR Simplot Company includes 5 different farms using ultrasonic, magnetic and acoustic Doppler technology for measurement.

Farm 3 located in the Bureau arm of the CJ Strike Reservoir is an 18 inch penstock with a GE Panametrics ultrasonic flow meter installed. Originally a magnetic flow meter was selected for this site, but due to location and costs associated with installation of flanged or spooled mag meter the owner decided to install an ultrasonic flow meter. New heavy walled (0.5") steel pipe was installed along with a 72" CMP for pipe access. The GE Panametrics AT868 dedicated ultrasonic flow meter has been installed and been checked by FloSonics (Inc.) for accuracy and installation specifications. RG62 cables have been pulled in conduit along with panels and AC power to run the equipment. Items remaining to be installed at this site include the data-logger and telemetry equipment. 70% project completion at this site.



Farm 2 located in CJ Strike pool on the south side utilizes a 30 inch penstock. Originally a magnetic flow meter was selected for this site, but due to location and costs associated with installation of flanged or spooled mag meter the owner decided to install an ultrasonic flow meter. A 20 foot section of new steel pipe (0.5") was installed below the pump station to better accommodate the use of ultrasonic equipment. A 72" CMP was installed with conduit and RG62 wire pulled back to the pump station to utilize available power at the station. Equipment panels have been installed and power connected to the meter. The GE Panametrics AT868 dedicated ultrasonic flow meter has been installed and been checked by FloSonics (Inc.) for accuracy and installation specifications. This site still has a data-logger and telemetry equipment to be installed. 70% project completion at this site.

Farm 9 is a 30 inch penstock that is pumped near the town of Grand View, Idaho. The location of the measurement point is downstream of the station by approximately one mile. Originally a magnetic flow meter was selected for this site, but due to location and costs associated with installation of flanged or spooled mag meter the owner decided to install an ultrasonic flow meter. Power from a center pivot on this farm has been utilized and 750 feet of RG62 cable ran in conduit back up the line near the edge of the center pivot field. This location was identified for safety and protection

purposes and does provide a nice long run of straight pipe to improve measurement accuracy. A 20 foot section of new steel pipe (0.5") was installed at the measurement site to improve the accuracy of the measurement. The GE Panametrics AT868 dedicated ultrasonic flow meter has been installed and been checked by FloSonics (Inc.) for accuracy and installation specifications. A 72" CMP was installed along with equipment panels for the flow meter and telemetry equipment. Remaining items to be installed at this site include data-logger and telemetry equipment. 70% project completion at this site.

Farm 4 is located on the north side of CJ Strike Reservoir. The pump station lifts water into a concrete trapezoid ditch where the water is then pumped directly to parts of the farm, or the water terminates at a pond. Originally a magnetic flow meter was selected for this site, but due to location and costs associated with installation of flanged or spooled mag meter the owner decided to move the measurement location up on top of the hill and selected an acoustic Doppler Mace unit to be installed. This unit has been installed with panels to accommodate equipment and is waiting on final electrical tie in to be done directly. Additionally programming of this unit will be required along with utilizing an on-board SIM card to collect and transmit data via cell towers in the area. 60% project completion at this site.

Big Foot Bar is located 12 miles downstream of Grand View, Idaho on the north side of the river. Five magnetic flow meters were purchased in December of 2013 with remote mounting of the electronics in panels. Four meters have been installed on three diversion sites for this farm with 60" CMP enclosures for access to the four flow meter tubes. These four Badger M2000 meters included three 10" meters and one 8" meter. Changes at this site included identification of four mainlines from three pumps instead of the five planned for under the grant. Five meters were ordered so the fifth meter was utilized on an additional point of diversion not identified by Simplot staff at the time of the grant. At this site (known as the Boltz farm site) is a 12" mainline with this meter installed along with panels for data-logging and telemetry equipment. Additionally a 24" CMP enclosure was manufactured for this site to access and protect the flow meter tube. Items remaining at the Big Foot Bar and Boltz farms include data-logging and telemetry equipment. Electrical work powering up the flow meter at these site remains to be completed. 55% project completion at these sites.

Black Mesa Farms:

Black Mesa farms (Wes Wooten and Chris Bryant) use a 30 inch steel penstock to irrigate this farm. To date a GE Panametrics AT868 dedicated clamp-on ultrasonic flow meter has been installed and checked for accuracy and installation specifications by FloSonics (Inc.). A 60 inch CMP has been installed to protect the site with a lockable lid. Items remaining at this site include completing a permanent AC power supply (currently being installed by the Idaho Power Company), hanging equipment panels and installation of the telemetry equipment. 70% project completion at this site.

Salmon Falls Land and Livestock-

This river station uses a 30 inch diameter pipe to deliver water to a pond on the east edge of the farm. To date work completed on this station includes excavation of the mainline along with replacement of a 15 foot section of pipe using 30 inch SDR51 PVC to better accommodate the use of clamp on ultrasonic flow meter equipment.

The location of the measurement point changed from close to the river station to near the terminus of the mainline coming from the river. Electrical work included installation of a 110 AC transformer along with wiring in an electrical plug that will be used for powering DC powered telemetry equipment. Two 20 X 16 X 8 fiberglass equipment panels have been installed to accommodate flow meter and telemetry equipment.

The GE Panametrics AT868 dedicated ultrasonic flow meter has been installed and checked by FloSonics (Inc.) for accuracy and installation specifications. Items remaining to be completed at this site include the installation of a manhole (96 inch corrugated metal pipe CMP), transducer cable conduit, data-logger and telemetry equipment. 70% project completion at this site.



Flying H Farms: Hoodcoe and Browns Creek diversion

On the Hoodcoe diversion is a 25 Horsepower centrifugal pump irrigating about 38 acres. An eight inch Badger M2000 magnetic flow meter has been installed and is currently operable. A welder and electrician were hired to complete this work. No telemetry was slated for this measurement point due to the small size of the farm.

The Browns Creek pump station has two 24 inch SDR 32.5 PVC pipes installed at this site. Installation of a dual channel GE Panametrics AT868 dedicated clamp-on ultrasonic flow meter has been completed and checked by FloSonics (Inc.) for accuracy and installation specifications. Two 16 X 16 X 8 steel equipment panels have been installed to accommodate the flow meter and telemetry equipment. A 96 inch CMP manhole has been installed to accommodate future access to the pipe and transducers. Conduit along with 440 feet of RG62 coaxial wire has been installed for connection to the GE flow meter. Remaining items to be completed at this site include the installation of telemetry equipment. 70% project completion at this site.

Mike James:

This station is located 11 miles downstream of Grand View, Idaho on the south side of the river. Original plans at this location included a meter for each river pump (total of three mag meters under the grant application), but it was later determined that a single GE Panametrics ultrasonic flow meter would be more efficient and could be better located for retrieving data remotely. Installation of the GE Panametrics AT868 dedicated ultrasonic flow meter is complete and has been checked by FloSonics (Inc.) for accuracy and installation specifications. Location of this site will be critical down the road for other remote site locations in this area to possibly utilize this location for data retrieval. Items remaining at this site include installation of the data-logging and telemetry equipment. 70% project completion at this site.

Ryan and Andy Johnson:

Three pumps are designated under the WaterSmart grant, one small change to piping sizes was identified after the grant application was submitted. Under the application IWRB staff identified three 12" magnetic flow meters would be needed, upon further site visits it was determined that two 12" and one six inch flow meter would be installed. These meters have been purchased and are currently in the process of being installed by the end user. Project manager has met with electrical contractors as well as a pipe fitter to properly install these three magnetic flow meters. This work will be completed by about the first week of May. 25% project completion at these sites.

Memorandum

To: Idaho Water Resource Board
From: Helen Harrington
Re: IWRB Water Resource Planning Committee Update
Date: May 1, 2014



The IWRB Water Resource Planning Committee met on April 15, 2014. Agenda items included the third in a series of panel discussions on Water Sustainability. The panel members were Paul Kjellander, IPUC; Barry Burnell, IDEQ; Alan Prouty, JR Simplot Co.; and, John Bernardo, Idaho Power. This is the final panel; the committee directed staff to proceed with drafting an initial Water Sustainability Policy for their review at an upcoming meeting.

The committee also began reviewing proposed revisions to several State Water Plan policies that are part of the group which legislators expressed concerns. The revisions include changes proposed by legislators as well as items to consider from staff. The committee requested a new version of the proposed changes; the new version will be provided to the committee prior to an upcoming meeting.

The Water Resource Planning Committee will meet on Tuesday, May 13, 2014 at 3 p.m. to accomplish the above mentioned items.

MATERIALS FOR THIS SECTION WILL BE PROVIDED AT THE MEETING.

Memorandum



To: Idaho Water Resource Board
From: Remington Buyer
Date: May 16, 2014
Re: 2013 Rental Pool Report and Reappointment of Rental Pool Local Committees

Action Items: The Board May Consider Reappointments to Rental Pool Local Committees

This agenda item will cover two topics:

1. A summary of the 2013 Rental Pool Report,
2. Reappointment of Rental Pool Local Committees.

1. More than 535,000 acre feet of water was transferred through the Upper Snake, Boise, Payette and Lake Fork Creek Rental Pools in 2013. Administrative surcharges on rental activity generated \$420,107.94 in revenue for the Board. Flow augmentation needs were partially satisfied through the transfer of 155,339 acre feet of uncontracted Bureau of Reclamation storage water from the Upper Snake, Boise and Payette Rental Pools, along with 83,101 AF of powerhead water from American Falls Reservoir and 60,000 acre feet of rental water from the Upper Snake Rental Pool. All totaled, 298,440 AF of flow augmentation water was transferred via Board Rental Pools to partially meet the requirement for 487,000 AF of flow augmentation water.

2. All Rental Pool Local Committees require reappointments. The Board has before them today five resolutions to separately reappoint the following local committees:

1. Reappointment of the Committee of Nine as the Local Committee for the Water District No. 1, Upper Snake Rental Pool,
2. Reappointment of the Advisory Board to Water District No. 63 as the Local Committee for the Water District No. 63, Boise River Rental Pool,
3. Reappointment of the Advisory Board to Water District No. 65 as the Local Committee for the Water District No. 65, Payette River Rental Pool,
4. Reappointment of the Advisory Board to Water District No. 65-K as the Local Committee for the Water District No. 65-K, Lake Fork Creek Rental Pool.
5. Reappointment of the Advisory Board to Water District No. 74 as the Local Committee for the Water District No. 74, Lemhi River Rental Pool.



Idaho Water Supply Bank

2013 Rental Pool Report

Introduction & Background

The Water Supply Bank is comprised of two parts: local rental pools and the Board's Water Supply Bank (Board's Bank). There are six rental pools in Idaho. Four of the rental pools (Water Districts 1, 63, 65 and 65-K) transfer storage allocations of water from reservoirs while the Water District 74 rental pool rents water to satisfy minimum stream flow water rights in the Lemhi River. The Shoshone and Bannock Tribes administer the Shoshone-Bannock Water Supply Bank which rents Upper Snake River reservoir water rights reserved for tribal use. This report summarizes 2013 transactions from rental pools for Water Districts No. 1, 63, 65 and 65-K.

2013 Activity Summary

Collectively between the rental pools of Water District No 1, Water District 63 and Water Districts 65 and 65-K, 535,402 acre-feet (AF) of water was made available for various uses through the rental pools. Ninety-nine percent of all water allocated for rental in 2013 was rented. The Board levies a 10% administrative surcharge on rental pool transactions. Owing to this IWRB administrative fee, the Board collected \$420,107.94 from 2013 rental pool transactions. The following summarizes rental pool information.

Upper Snake Rental Pool, Water District No. 1

The Upper Snake Rental Pool is the most procedurally diverse rental pool. Rental opportunities exist in numerous pools, such as the 5,000 AF small pool (for rental requests of less than 100 AF), a 50,000 AF large pool, a supplemental pool for hydropower uses below Milner Dam, private rental opportunities between rental pool participants, and up to 205,000 AF of rental water by the Bureau of Reclamation for Snake River flow augmentation. Water rental rates range from \$6/AF (offered if reservoirs fill) to \$22/AF (if reservoirs don't fill and storage allocations are insufficient to meet flow augmentation needs).

330,487 AF of water was leased into and through the District No. 1 Rental Pool in 2013 and all of it was rented to satisfy the needs of 57 irrigation uses and 2 uses below Milner Dam. 89,443 AF of storage rights were rented through the common pool and 86,159 AF were rented between rental pool participants under private agreements. The Bureau of Reclamation transferred 154,885 AF of water through the rental pool to meet flow augmentation needs: 60,000 AF was rented through the common pool, while 3,830 AF and 7,955 AF of uncontracted storage space was transferred from Jackson Lake and Palisades Reservoir respectively, while 83,101 AF of powerhead was released from American Falls Reservoir.

Boise River Rental Pool, Water District No. 63

The Boise River Rental Pool rents storage allocations from Anderson Ranch, Arrow Rock, Lucky Peak and Lake Lowell Reservoirs. The Water District has established that the rental rate for storage water is \$14.27/AF with the Board receiving \$1.43 per AF. 6,478 AF was leased into and rented from the rental pool in 2013 and the Bureau of Reclamation transferred approximately 15,000 AF through the rental pool for flow augmentation. The Board received \$9,263 from the District 63 Rental Pool in 2013 while \$8,421.40 was returned to District 63 to cover administrative costs.

Payette River Rental Pool, Water District No. 65

The Payette River Rental Pool rents storage allocations from Payette Lake, Cascade Reservoir and the upper lakes of the Payette River. Water District 65 has established that the rental rate for in-basin uses is \$2/AF while out of basin uses rent for \$14.27/AF. The Board receives either \$0.20/AF or \$1.43/AF depending on rental uses.

54,567 AF of storage water rights were made available to the District 65 rental pool in 2013 while the Bureau of Reclamation transferred 128,554 AF of uncontracted water allocations through the rental pool. There was one out of basin, flow augmentation rental made by the Bureau of Reclamation while Idaho Power rented one storage allocation for in-basin for hydropower generation and 54 in-basin, irrigation rental requests were also satisfied. In total, 175,612 AF (96%) of all available water was rented in 2013, generating \$68,241.45 in revenue for the Board and \$234,388.96 for Water District 65.

Lake Fork Rental Pool, Water District No. 65-K

The Lake Fork of the Payette River is a separate rental pool, administered by the Watermaster of Water District 65-K. This rental pool rents storage water along the Lake Fork drainage. The water rental rate is \$13.28/AF. 316 AF of water was made available for rental through the rental pool in 2013 and all of it was rented by a single irrigator, earning the Board \$419.35 in rental pool revenue and generating \$143.82 for Water District No 65-K.



Rental Pool	Rental Rates & Administrative Fees	2013 Transactions	Vol. Leased into Pool	Volume Rented	Rental Pool Revenue
District 1	<p>\$6/AF if reservoirs fill,</p> <p>\$14.50/AF if reservoirs don't fill but enough water is available for flow augmentation rentals,</p> <p>\$22/AF if reservoirs don't fill and not enough water is available for flow-aug rentals.</p> <p>\$1.05/AF District 1 admin fee and IWRB 10% surcharge.</p>	<p>57 irrigation rentals above Milner and 2 rentals below Milner.</p> <p>50K AF of water from rental pool participants to the common pool,</p> <p>60K AF of water from participants to the Bureau of Reclamation for flow augmentation,</p> <p>39,443 AF of water as additional participant assignments to common pool,</p> <p>86,159 AF of water rented among participants per private agreements,</p> <p>11,785 AF of uncontracted reservoir storage and 83,101 AF of powerhead transferred by the Bureau of Reclamation.</p>	333,487 AF	333,487 AF	<p>Spaceholder Revenue: \$2,166,926.40</p> <p>Water Dist No 1 Fees: \$347,011.56</p> <p>IWRB Admin Fees: \$342,184.14</p>
District 63	<p>\$14.27/AF rental rate</p> <p>\$1.30/AF District 63 admin fee and IWRB 10% (\$1.43/AF).</p>	<p>6,478 AF of water rented in-basin through the rental pool.</p> <p>Approximately 15K AF of uncontracted storage space was transferred through the rental pool for flow augmentation.</p>	21,478 AF	21,478 AF	<p>Spaceholders: \$92,441.06</p> <p>WD 63: \$8,421.40</p> <p>IWRB: \$9,263</p>
District 65	<p>\$2/AF for in-basin uses,</p> <p>\$14.27/AF for out of basin uses,</p> <p>\$1.30/AF District 65 admin fee and IWRB 10% surcharge.</p>	<p>One out of basin rental by the Bureau of Reclamation for flow augmentation, one in basin hydropower rental by Idaho Power and 54 in basin irrigation rentals.</p> <p>54,567 AF of water rented through the common rental pool.</p> <p>128,554 AF of uncontracted water transferred for flow augmentation.</p>	183,121 AF	175,612 AF	<p>Spaceholders: \$681,002.49</p> <p>WD 65: \$234,388.96</p> <p>IWRB: \$68,241.45</p>
District 65-K	<p>\$13.28/AF rental rate</p> <p>\$0.50/AF District 65-K admin fee and IWRB 10% surcharge.</p>	<p>One in-basin irrigation rental.</p>	316 AF	316 AF	<p>Spaceholders: \$3616.16</p> <p>WD 65-K: \$157.94</p> <p>IWRB: \$419.35</p>



	Total Volume Leased	Total Volume Rented	Total Rental Pool Revenue
To Spaceholders:			\$2,943,986.11
To Water Districts:			\$589,979.86
To the IWRB:			\$420,107.94
Sum Total:	535,402 AF	527,893 AF	\$3,954,073.91

BEFORE THE IDAHO WATER RESOURCE BOARD

IN THE MATTER OF RENEWING THE)
APPOINTMENT OF WATER DISTRICT) RESOLUTION
NO. 1, UPPER SNAKE RIVER, AS THE)
LOCAL COMMITTEE TO FACILITATE)
THE RENTAL OF STORED WATER)

WHEREAS, section 42-1765, Idaho Code and IDAPA 37.02.03040, Water Supply Bank Rule 40, authorizes the Idaho Water Resource Board to appoint local committees to facilitate the rental of stored water; and

WHEREAS, the Board Advisory Committee of Water District No. 1, the Committee of Nine, has requested appointment as a local committee to facilitate the rental of water stored in the Upper Snake River Rental Pool; and

WHEREAS, the Department of Water Resources has reviewed the local committee procedures and lease and rental forms and has determined that the procedures and forms conform to the requirements of the Idaho Code and Water Supply Bank Rules;

NOW THEREFORE BE IT RESOLVED that the Board Advisory Committee for Water District No. 1, Upper Snake River, is appointed as the local committee to operate a rental pool for storage water in the Upper Snake River. This appointment is effective for a period of five (5) years from the date of this resolution or until amended or revoked by action of the Idaho Water Resource Board.

PASSED AND APPROVED this ____ day of May, 2014.

ROGER W. CHASE
Idaho Water Resource Board Chairman

Attest: _____
BOB GRAHAM
Secretary

BEFORE THE IDAHO WATER RESOURCE BOARD

IN THE MATTER OF RENEWING THE)
APPOINTMENT OF WATER DISTRICT) RESOLUTION
NO. 63, BOISE RIVER, AS THE)
LOCAL COMMITTEE TO FACILITATE)
THE RENTAL OF STORED WATER)

WHEREAS, section 42-1765, Idaho Code and IDAPA 37.02.03040, Water Supply Bank Rule 40, authorizes the Idaho Water Resource Board to appoint local committees to facilitate the rental of stored water; and

WHEREAS, the Board Advisory Committee of Water District No. 63 has requested appointment as a local committee to facilitate the rental of water stored in the Boise River Rental Pool; and

WHEREAS, the Department of Water Resources has reviewed the local committee procedures and lease and rental forms and has determined that the procedures and forms conform to the requirements of the Idaho Code and Water Supply Bank Rules;

NOW THEREFORE BE IT RESOLVED that the Board Advisory Committee for Water District No. 63, Boise River, is appointed as the local committee to operate a rental pool for storage water in the Boise River. This appointment is effective for a period of five (5) years from the date of this resolution or until amended or revoked by action of the Idaho Water Resource Board.

PASSED AND APPROVED this ____ day of May, 2014.

ROGER W. CHASE
Idaho Water Resource Board Chairman

Attest: _____
BOB GRAHAM
Secretary

BEFORE THE IDAHO WATER RESOURCE BOARD

IN THE MATTER OF RENEWING THE)
APPOINTMENT OF WATER DISTRICT) RESOLUTION
NO. 65, PAYETTE RIVER AS THE)
LOCAL COMMITTEE TO FACILITATE)
THE RENTAL OF STORED WATER)

WHEREAS, section 42-1765, Idaho Code and IDAPA 37.02.03040, Water Supply Bank Rule 40, authorizes the Idaho Water Resource Board to appoint local committees to facilitate the rental of stored water; and

WHEREAS, the Board Advisory Committee of Water District No. 65 has requested appointment as a local committee to facilitate the rental of water stored in the Payette River Rental Pool; and

WHEREAS, the Department of Water Resources has reviewed the local committee procedures and lease and rental forms and has determined that the procedures and forms conform to the requirements of the Idaho Code and Water Supply Bank Rules;

NOW THEREFORE BE IT RESOLVED that the Board Advisory Committee for Water District No. 65, Payette River, is appointed as the local committee to operate a rental pool for storage water in the Payette River. This appointment is effective for a period of five (5) years from the date of this resolution or until amended or revoked by action of the Idaho Water Resource Board.

PASSED AND APPROVED this ____ day of May, 2014.

ROGER W. CHASE
Idaho Water Resource Board Chairman

Attest: _____
BOB GRAHAM
Secretary

BEFORE THE IDAHO WATER RESOURCE BOARD

IN THE MATTER OF RENEWING THE)
APPOINTMENT OF WATER DISTRICT) RESOLUTION
NO. 65-K, LAKE FORK CREEK, AS THE)
LOCAL COMMITTEE TO FACILITATE)
THE RENTAL OF STORED WATER)

WHEREAS, section 42-1765, Idaho Code and IDAPA 37.02.03040, Water Supply Bank Rule 40, authorizes the Idaho Water Resource Board to appoint local committees to facilitate the rental of stored water; and

WHEREAS, the Board Advisory Committee of Water District No. 65-K has requested appointment as a local committee to facilitate the rental of water stored in the Lake Fork Creek Rental Pool; and

WHEREAS, the Department of Water Resources has reviewed the local committee procedures and lease and rental forms and has determined that the procedures and forms conform to the requirements of the Idaho Code and Water Supply Bank Rules;

NOW THEREFORE BE IT RESOLVED that the Board Advisory Committee for Water District No. 65-K, Lake Fork Creek, is appointed as the local committee to operate a rental pool for storage water in the Lake Fork Creek. This appointment is effective for a period of five (5) years from the date of this resolution or until amended or revoked by action of the Idaho Water Resource Board.

PASSED AND APPROVED this ____ day of May, 2014.

ROGER W. CHASE
Idaho Water Resource Board Chairman

Attest: _____
BOB GRAHAM
Secretary

BEFORE THE IDAHO WATER RESOURCE BOARD

IN THE MATTER OF RENEWING THE)
APPOINTMENT OF WATER DISTRICT) RESOLUTION
NO. 74 , LEMHI RIVER, AS THE)
LOCAL COMMITTEE TO FACILITATE)
THE RENTAL OF STORED WATER)

WHEREAS, section 42-1765, Idaho Code and IDAPA 37.02.03040, Water Supply Bank Rule 40, authorizes the Idaho Water Resource Board to appoint local committees to facilitate the rental of stored water; and

WHEREAS, the Board Advisory Committee of Water District No. 74 has requested appointment as a local committee to facilitate the rental of water stored in the Lemhi River Rental Pool; and

WHEREAS, the Department of Water Resources has reviewed the local committee procedures and lease and rental forms and has determined that the procedures and forms conform to the requirements of the Idaho Code and Water Supply Bank Rules;

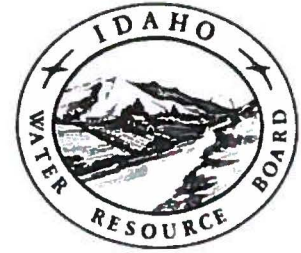
NOW THEREFORE BE IT RESOLVED that the Board Advisory Committee for Water District No. 74, Lemhi River, is appointed as the local committee to operate a rental pool for storage water in the Lemhi River. This appointment is effective for a period of five (5) years from the date of this resolution or until amended or revoked by action of the Idaho Water Resource Board.

PASSED AND APPROVED this ____ day of May, 2014.

ROGER W. CHASE
Idaho Water Resource Board Chairman

Attest: _____
BOB GRAHAM
Secretary

MEMO



To: Idaho Water Resource Board
From: Brian W. Patton
Subject: Secondary Aquifer Planning, Management, & Implementation Fund
Date: May 4, 2014

With the enactment of HB 547 which provides \$5M annually from the Cigarette Tax for “statewide aquifer stabilization” the Secondary Aquifer Fund now has two defined revenue streams in addition to one-time funds and interest income:

- 1) Pristine Springs loan payment of \$716,000 annually through 2027
- 2) Cigarette Tax distribution of \$5,000,000 annually.

Income Stream:

Cigarette Tax for Statewide
Aquifer Stabilization (HB547)
\$5,000,000/year



Income Stream:

Pristine Springs Loan
\$716,000/year



Secondary Aquifer Fund

“...continuously appropriated...for technical studies, project management services, hydrologic monitoring, measurement, and comprehensive plan development, as well as for personnel costs, operating expenditures, capital outlay and water projects associated with statewide aquifer planning and management effort...” Idaho Code 42-1780 (2)

Cigarette Tax Revenues:

HB547 designates use for statewide
aquifer stabilization.

ESPA is first priority, but other
aquifers are also in need.



Pristine Springs Loan Payments:

Past Use: ESPA stabilization efforts

Future Proposed Use: statewide aquifer
monitoring, measurement, & modeling
(including staff) now paid through
Aquifer Planning Fund.



Staff is proposing that the \$716,000 annual revenues stream from Pristine Springs loan payments be dedicated to the statewide aquifer monitoring, measurement, and modeling effort, including staff expenses, now being paid by the Aquifer Planning Fund. The Aquifer Planning Fund was a one-time appropriation that is nearing exhaustion. A cash flow projection for ESPA recharge and statewide monitoring is attached as well as a resolution dedicating the Pristine Springs funds to statewide monitoring going forward.

Secondary Aquifer Fund Cash Flow Projection
ESPA managed Recharge and Statewide Aquifer Monitoring, Measurement, Modeling

	2014	2015	2016	2017	2018	2019	2020
Carry-over in Secondary Aquifer Fund (1)	\$ 2,509,000	\$ 6,407,036	\$ 9,236,664	\$ 7,373,611	\$ 5,167,105	\$ 3,239,774	\$ 1,078,733
Interest income (5)	\$ 10,036	\$ 25,628	\$ 36,947	\$ 29,494	\$ 20,668	\$ 12,959	\$ 4,315
HB 479 (one time) (2)	\$ 4,000,000						
Pristine Springs Sale (3)	\$ -						
HB 547 (ongoing cigarette tax)		\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000
Pristine Springs Loan Repayment (4)	\$ 716,000	\$ 716,000	\$ 716,000	\$ 716,000	\$ 716,000	\$ 716,000	\$ 716,000
ESPA Recharge Estimated Expenditures	(\$828,000)	(\$2,196,000)	(\$6,900,000)	(\$7,236,000)	(\$6,948,000)	(\$7,174,000)	(\$6,730,000)
Statewide Aquifer Monitoring, Measurement, Modeling		(\$716,000)	(\$716,000)	(\$716,000)	(\$716,000)	(\$716,000)	(\$716,000)
Annual Over/Under	\$ 6,407,036	\$ 9,236,664	\$ 7,373,611	\$ 5,167,105	\$ 3,239,774	\$ 1,078,733	(\$646,952)

(1) Continuously Appropriated Fund - not subject to legislative annual appropriation

(2) Includes funds from HB 479 earmarked for recharge infrastructure but not funds from HB 479 earmarked for other purposes

(3) Possible sale of parts of facility to City of Twin Falls (discharge permit) and CSI (geothermal well). Funds will come into the Revolving Development Account.

(4) continues to 2027. Annual transfer of payment from Revolving Development Account to Secondary Aquifer Management Fund.

(5) use current 2014 interest rate of 0.40%

Secondary Aquifer Fund Cash Flow Projection
ESPA managed Recharge and Statewide Aquifer Monitoring, Measurement, Modeling

	2021		2022		2023		2024		2025
	(\$646,952)	\$	129,048	\$	1,923,564	\$	5,203,258	\$	8,496,071
	\$0	\$	516	\$	7,694	\$	20,813	\$	33,984
\$	5,000,000	\$	5,000,000	\$	5,000,000	\$	5,000,000	\$	5,000,000
\$	716,000	\$	716,000	\$	716,000	\$	716,000	\$	716,000
	(\$4,224,000)		(\$3,206,000)		(\$1,728,000)		(\$1,728,000)		(\$2,000,000)
	(\$716,000)		(\$716,000)		(\$716,000)		(\$716,000)		(\$716,000)
\$	129,048	\$	1,923,564	\$	5,203,258	\$	8,496,071	\$	11,530,055

BEFORE THE IDAHO WATER RESOURCE BOARD

IN THE MATTER OF THE)	A RESOLUTION TO ALLOCATE
PRISTINE SPRINGS LOAN REPAYMENTS)	FUNDS
_____)	

WHEREAS, on September 10, 2008 the Idaho Water Resource Board (IWRB or Board) entered into a loan agreement with the North Snake Ground Water District and the Magic Valley Ground Water District (Districts) in the principal amount of ten million dollars (\$10,000,000), known as the "Pristine Springs Loan"; and

WHEREAS, the loan proceeds were used by the Districts to finance the acquisition of water supplies from the Pristine Springs Facility for mitigation purposes; and

WHEREAS, on January 11, 2012 the IWRB authorized a modification to the loan agreement to allow the loan repayments to be made through 2027 in an amount of approximately \$716,000 annually; and

WHEREAS, to date, the IWRB has requested annually that these loan payment funds be transferred from the IWRB's Revolving Development Account into the IWRB's Secondary Aquifer Planning, Management, & Implementation Fund (Secondary Aquifer Fund), from where they could be used by the IWRB for Eastern Snake Plain Aquifer stabilization efforts; and

WHEREAS, the 2014 Legislature enacted House Bill 547 which allocated \$5 million annually from the Cigarette Tax, to be deposited into the Secondary Aquifer Fund, to be used by the IWRB for statewide aquifer stabilization; and

WHEREAS, the Aquifer Planning and Management Fund is used by the Idaho Department of Water Resources for statewide aquifer monitoring, measurement, and modeling, and well as aquifer planning efforts, including approximately four staff FTE's; and

WHEREAS, the Aquifer Planning and Management Fund was funded by a one-time appropriation and is nearing exhaustion; and

WHEREAS, the critical work being accomplished through the statewide aquifer monitoring, measurement, and modeling efforts must continue.

NOW THEREFORE BE IT RESOLVED that the IWRB authorizes and dedicates the use of the Pristine Springs loan repayments to the statewide aquifer monitoring, measurement, and modeling effort.

NOW BE IT THEREFORE FURTHER RESOLVED that the IWRB authorizes the

Director of the Department of Water Resources to include in the Departments' annual budget requests a request to transfer the Pristine Springs loan repayments from the Revolving Development Account into the Secondary Aquifer Planning, Management, & Implementation Fund.

NOW BE IT THEREFORE FURTHER RESOLVED that the IWRB authorizes the Director of the Department of Water Resources to include in the Departments' annual budget requests a request to utilize Pristine Springs loan repayment funds for the statewide aquifer monitoring, measurement, and modeling effort.

DATED this 16th day of May, 2014.

ROGER CHASE, Chairman
Idaho Water Resource Board

ATTEST _____
BOB GRAHAM, Secretary

EASTERN SNAKE PLAIN AQUIFER

Preliminary Draft – Managed Recharge Plan

4/9/14

Goal: Stabilize the Eastern Snake Plain Aquifer, consistent with the CAMP recharge goals of 100,000 acre-feet average annual volume through 2017, and 250,000 acre-feet average annual volume thereafter. Metric of success is sustaining aquifer volumes and spring discharges.

Problem: The Eastern Snake Plain Aquifer is currently losing approximately 200,000 acre-feet per year from aquifer storage. The total loss from storage since 1952 is 12 million acre-feet. This has resulted in declining aquifer levels and spring flows from the aquifer.

Water Availability (natural flow) for Recharge: The available water supply for recharge occurs as winter-time flows (November-March) and as spring run-off flows (March-April). The Snake River winter-time flows are usually a minimum of 500 cfs and are available for diversion from the Milner Pool. There is also a relatively consistent winter-time flow in the Little Wood River.

- Snake River at Milner: Median annual volume of 500,000 acre-feet
- Snake River above American Falls: Median annual volume of 6,000 acre-feet
- Wood River system: Median annual volume of 20,000 acre-feet

Strategy:

1. Utilize winter-time flows that would otherwise spill past Milner Dam for recharge to provide for a “base-load” for recharge. This will require development of dedicated, winter-operational recharge facilities diverting from the Milner Pool that operate independent of canal companies.
2. Utilize the canal systems and off-canal facilities, to the extent available in any given year, to help catch and divert the spring run-off flows for recharge.
3. Develop a winter-operational facility to utilize the Little Wood River water supplies.
4. In above-average water years when recharge will not interfere with filling the reservoir system, recharge into Upper Valley canals (above American Falls).

Sideboards:

1. Recharge above American Falls can occur when 2700 cfs is passing Minidoka and natural flow spilling past Milner.
2. Non-interference with reservoir fill.

Existing Facilities and Program: The existing facilities available for recharge below American Falls can accomplish approximately 40,000 acre-feet annually. Deliveries at each location are variable depending on canal company priorities for maintenance and repairs. These facilities include:

1. Milner Gooding Canal (including Shoshone and Milepost 31 recharge sites)
2. Northside Canal
3. Southwest Irrigation District – West Cassia Pipeline

Additional Down-Canal Facilities: These additional down-canal facilities are expected to increase capacity by approximately 20,000 acre-feet annually. Deliveries at each location are variable depending on canal company priorities for maintenance and repairs.

1. Milner-Gooding Canal
 - a. Milepost 31 Build-Out
2. Northside Canal
 - a. Large off-canal recharge site (K-Canal or Neilson site) & utilization of Wilson Lake

Walcott Recharge Site: 100-cfs direct diversion project from the Walcott Pool. Engineering and environmental compliance is underway. This site is expected to increase capacity by 18,000 acre-feet annually. This site will be independent of canal company operations but will have variable deliveries based on water availability.

Southwest Irrigation District-West Cassia Pipeline Modifications: Modifications to allow continuous winter-time operations. This will increase capacity by approximately 7,000 acre-feet annually. This project would require cooperation from SWID, but would provide a system independent of canal operations that could operate all winter.

Direct Diversion Projects from Milner Pool: Construct up to 4 pumping plant-to-recharge projects each with 100 cfs capacity that operate through the winter. These sites would increase capacity by approximately 100,000 acre-feet annually and provide a “base-load” for recharge. Capacity will be independent of canal company operations and utilize winter-time water supplies.

Little Wood River Recharge Capacity: Construct winter-operational recharge site to utilize winter-time flows (50 cfs) available in the Little Wood River. This site would provide a “base-load” for recharge that is independent of canal company operations and utilize winter-time water supplies.

Water Quality Monitoring: a program of water quality monitoring, beyond current efforts, will be established in coordination with DEQ.

Staffing Needs:

1. ESPA Manages Recharge Program Manager – must be capable of managing and leading a multi-million dollar effort. Capable of understanding the importance of recharge to aquifer stabilization, and the importance of aquifer stabilization to the state, the water users, the power company, and others. Must be capable of negotiating with potential partners.
2. Project Engineer – capable of taking planning-level project layouts and cost estimates through to completed facilities. Will manage multiple design and construction projects at same time.

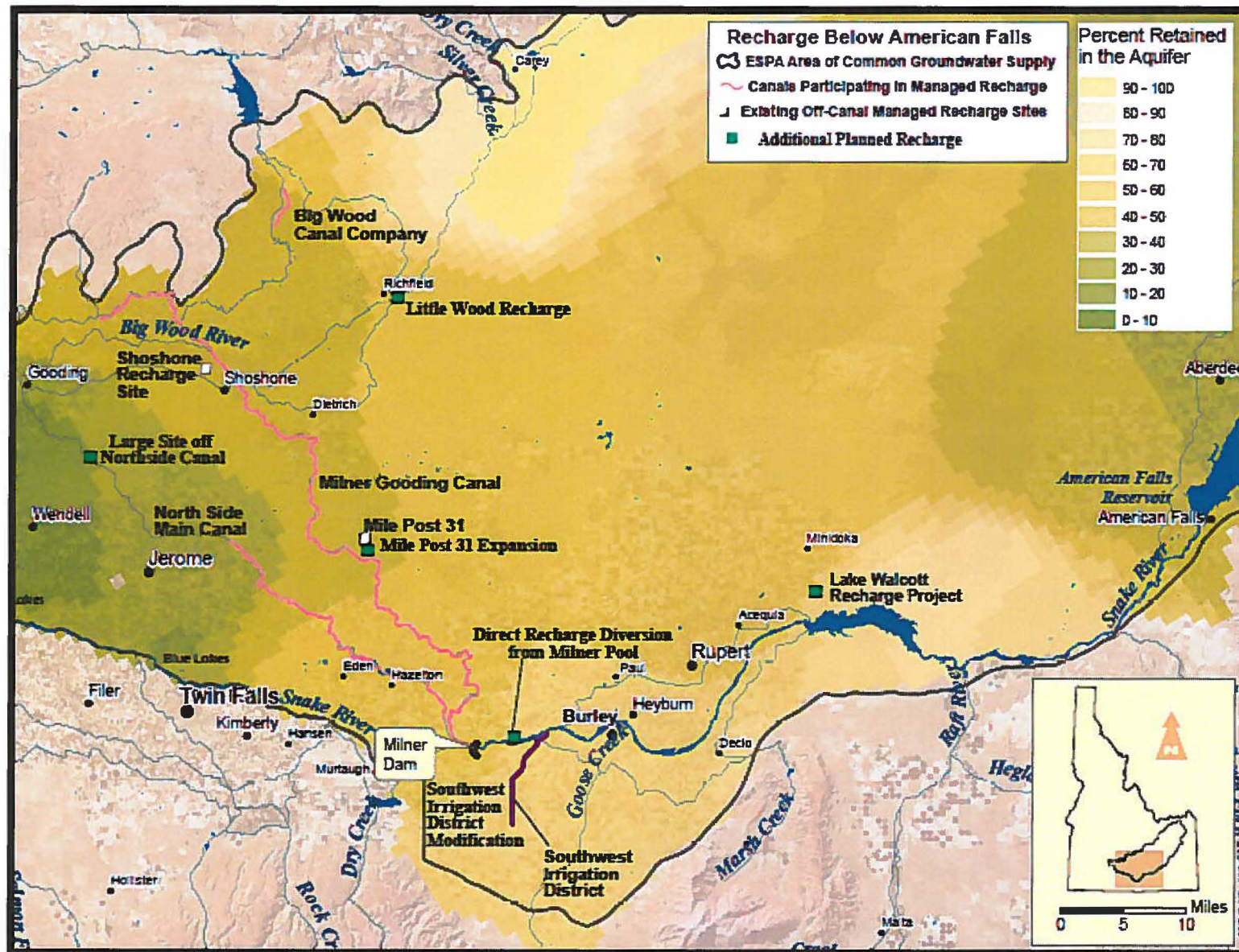
Recharge Component	Construction	Annual O&M	Annual Average AF	
Existing Lower Valley Facilities				
Milner-Gooding Canal inc. Shoshone and MP31 recharge sites				
Northside Canal				
Southwest Irrigation District Pipeline				
Existing Lower Valley Facilities	N/A	\$130,000	40,000 AF	<ul style="list-style-type: none"> • Dependent on Canal Company cooperation • Variable deliveries
Additional Lower Valley Down-Canal Facilities				
MP 31 build-out on Milner Gooding Canal	\$200,000			
Large off-canal site on Northside Canal (K-Canal or Nielson Sites)	\$300,000			
Additional Lower Valley Down-Canal Facilities		\$70,000	20,000 AF	<ul style="list-style-type: none"> • Dependent on Canal Company cooperation • Variable deliveries
Walcott Recharge Site	\$5M	\$100,000	18,000 AF	<ul style="list-style-type: none"> • Direct diversion from Walcott pool – not reliant on canal companies • Variable deliveries • Engineering/environmental investigations underway
Southwest Irrigation District Pipeline modifications for winter operations	\$2M	\$150,000	7,000 AF	<ul style="list-style-type: none"> • Divert winter-time(Nov-Mar) Milner spill (500 cfs) to recharge thru dedicated facilities • “Base-load” for recharge • Direct diversion from Milner Pool – not reliant on canal companies & below Minidoka hydropower
Direct diversion projects from Milner Pool	\$20M	\$600,000	100,000 AF	<ul style="list-style-type: none"> • Divert winter-time(Nov-Mar) Milner spill (500 cfs) to recharge thru dedicated facilities • “Base-load” for recharge • Direct diversion from Milner Pool – not reliant on canal companies & below Minidoka hydropower
Little Wood River Recharge	\$3M	\$80,000	15,000 AF	<ul style="list-style-type: none"> • Divert winter-time(Nov-Mar) flows (50 cfs) to recharge thru dedicated facilities • “Base-load” for recharge
Water Quality monitoring		\$100,000		
Project Management		\$160,000		
Contingency 20%	\$6.1M	\$288,000		
TOTALS	\$36.6M	\$1.73M/yr	200,000 AF	

Estimated Build-Out Schedule

					YEAR					
	1	2	3	4	5	6	7	8	9	10
Milepost 31 Build-out	Construction									
Northside Large Site	Engineering	construction								
Southwest Pipeline		Engineering	construction							
Walcott	Land and env.	Engineering		construction						
Direct Milner Diversions	select potential sites & test drilling									
	Site 1	acquire land	Engineering		Construction					
	Site 2		acquire land	Engineering		Construction				
	Site 3			acquire land	Engineering		Construction			
	Site 4				acquire land	Engineering		Construction		
Little Wood recharge						acquire land	Engineering		Construction	

Estimated Expenditures										
Select sites & test drilling	\$200,000	\$200,000								
Acquire lands & environmental	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000				
Engineering	\$50,000	\$800,000	\$800,000	\$800,000	\$800,000	\$800,000	\$500,000			
Construction	\$100,000	\$350,000	\$4,150,000	\$4,350,000	\$4,000,000	\$4,000,000	\$4,000,000	\$2,250,000	\$1,250,000	
Water Quality Monitoring	\$10,000	\$20,000	\$30,000	\$40,000	\$50,000	\$60,000	\$70,000	\$80,000	\$90,000	\$100,000
Operations & Management	\$130,000	\$260,000	\$570,000	\$640,000	\$740,000	\$890,000	\$1,040,000	\$1,190,000	\$1,340,000	\$1,340,000
Contingency	\$138,000	\$366,000	\$1,150,000	\$1,206,000	\$1,158,000	\$1,190,000	\$1,122,000	\$704,000	\$526,000	\$288,000
Total by Year	\$828,000	\$2,196,000	\$6,900,000	\$7,236,000	\$6,948,000	\$7,174,000	\$6,730,000	\$4,224,000	\$3,206,000	\$1,728,000

Total 10-Year Expenditures \$39,290,000





Overview of the Aquifer Planning and Management Fund

Presented to

The Idaho Water Resource Board

May 16, 2014



- Review funding
- Breakdown of spending by project
- Overview of the technical studies and monitoring networks
- Brief description of sites and equipment
- Summary of agreements and cooperation



Sand Springs pipeline

Title 42, Chapter 17, Sections 42-1779 & 1780, Idaho Code (2008) established the aquifer planning and management effort and created the fund in state treasury for:

- Technical studies
- Hydrologic monitoring and measurements

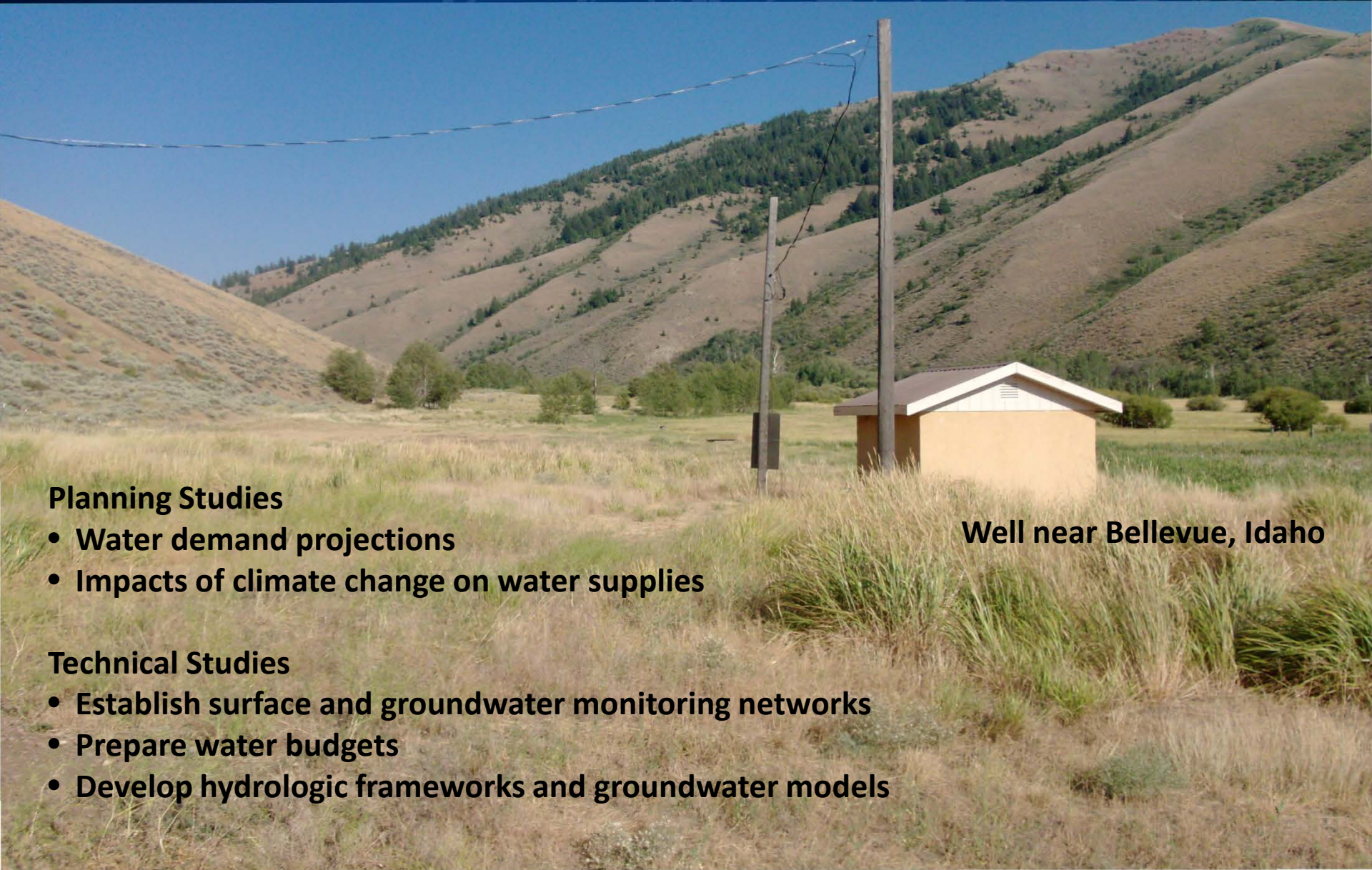


Hydrologic Assessments

- Treasure Valley
- Eastern Snake River Plain
- Wood River Valley
- Spokane Valley – Rathdrum Prairie



Little Lost River



Planning Studies

- Water demand projections
- Impacts of climate change on water supplies

Well near Bellevue, Idaho

Technical Studies

- Establish surface and groundwater monitoring networks
- Prepare water budgets
- Develop hydrologic frameworks and groundwater models

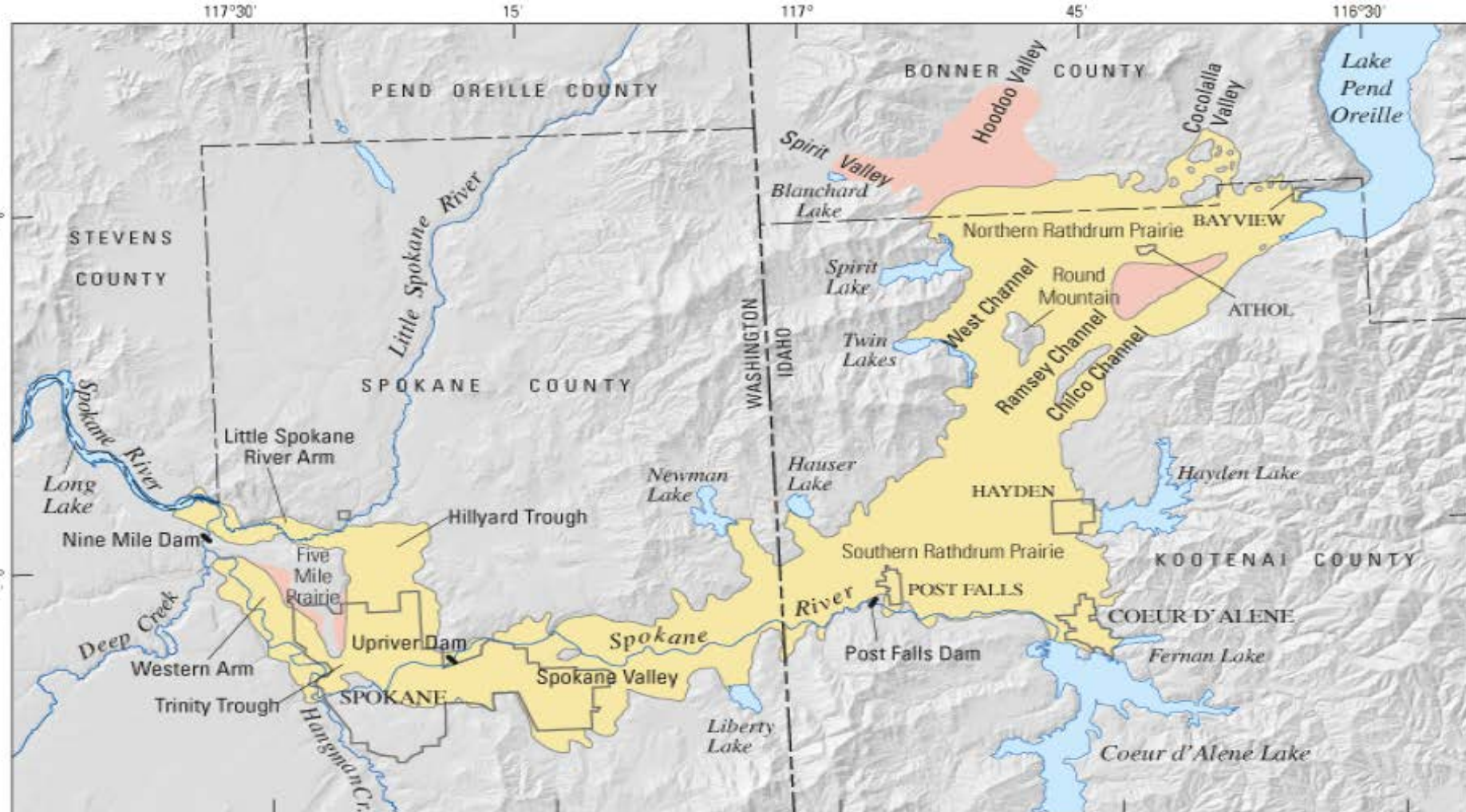
* values through March 31, 2014

AQUIFER PLANNING AND MANAGEMENT FUND APPROXIMATE EXPENDITURES FOR PERSONNEL, MONITORING, GROUND WATER MODELS, AND PLAN DEVELOPMENT

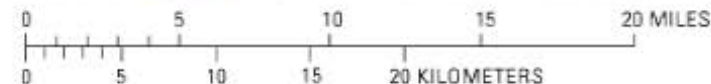
	FY 2009 - FY2014*
ESPA	\$2,257,700
Spokane Valley/Northern Idaho	\$454,150
Treasure Valley	\$1,633,500
Wood River Basin	\$176,350
Personnel	\$2,210,600
Total	\$6,732,300
	* Values through March 31, 2014

Trustee and Benefit Fund Expenditures

Entity	Contract Purpose	Projected FY 2014
USGS	COOP surface water gages	\$334,699
Water District 01	Menan gage	\$8,627
Idaho Irrigation District	Return flow measurements	\$3,000
Shoshone-Bannock Tribes	Groundwater levels, and spring and return flow measurements	\$29,000
Idaho Power	Diversions and stream flows	\$25,467
	ESPA return flows	\$24,584
	ESPA Spring monitoring	\$25,547
	Statewide Groundwater Quality Monitoring	
ID Health Lab	Lab analyses and field assistance	\$92,000
Sampling contracts	Summer interns	\$11,000
	Statewide subtotal	\$103,000
	Total T&B expenditures FY 2014	\$553,924
	T&B allocation	\$554,000



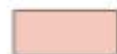
Base modified from U.S. Geological Survey digital data.
 City boundaries, 1:24,000, various years (1961-86);
 Public land survey, 1:100,000, 1985; Lakes, 1:100,000, 1995;
 and rivers, 1:100,000, 1985. North American Datum of 1983 (NAD 83).



EXPLANATION



**Extent of Spokane Valley-Rathdrum Prairie
 aquifer ground-water flow model**



**Area of Spokane Valley-Rathdrum Prairie
 aquifer as defined by Kahle and others (2005),
 that is excluded from ground-water flow model**

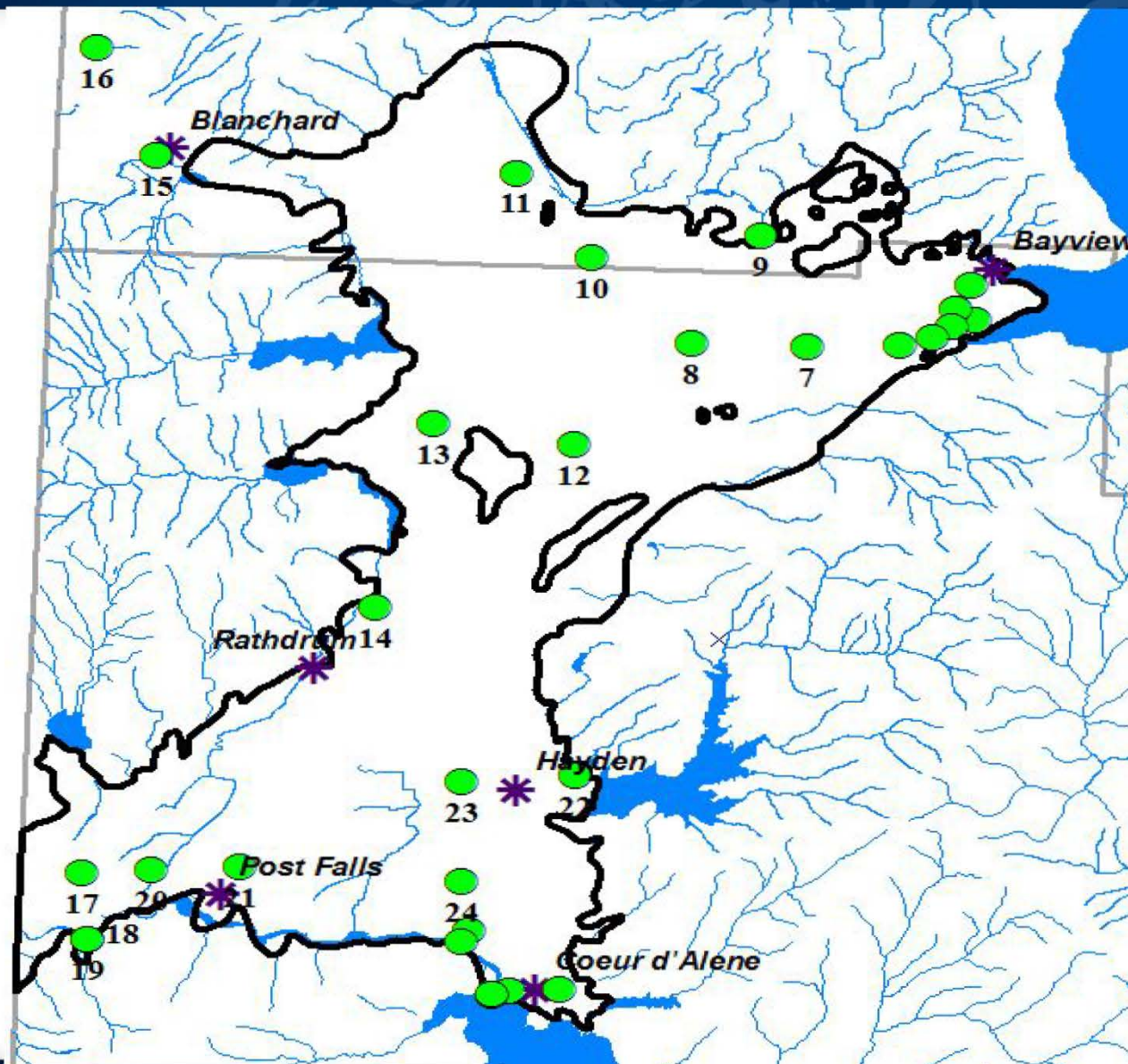


U.S. GEOLOGICAL SURVEY
Scientific Investigations Report 2007–5044

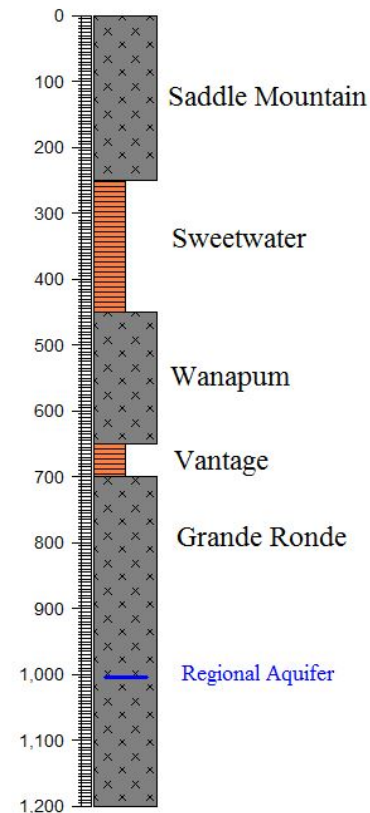
Ground-Water Flow Model for the Spokane Valley-Rathdrum Prairie Aquifer, Spokane County, Washington, and Bonner and Kootenai Counties, Idaho

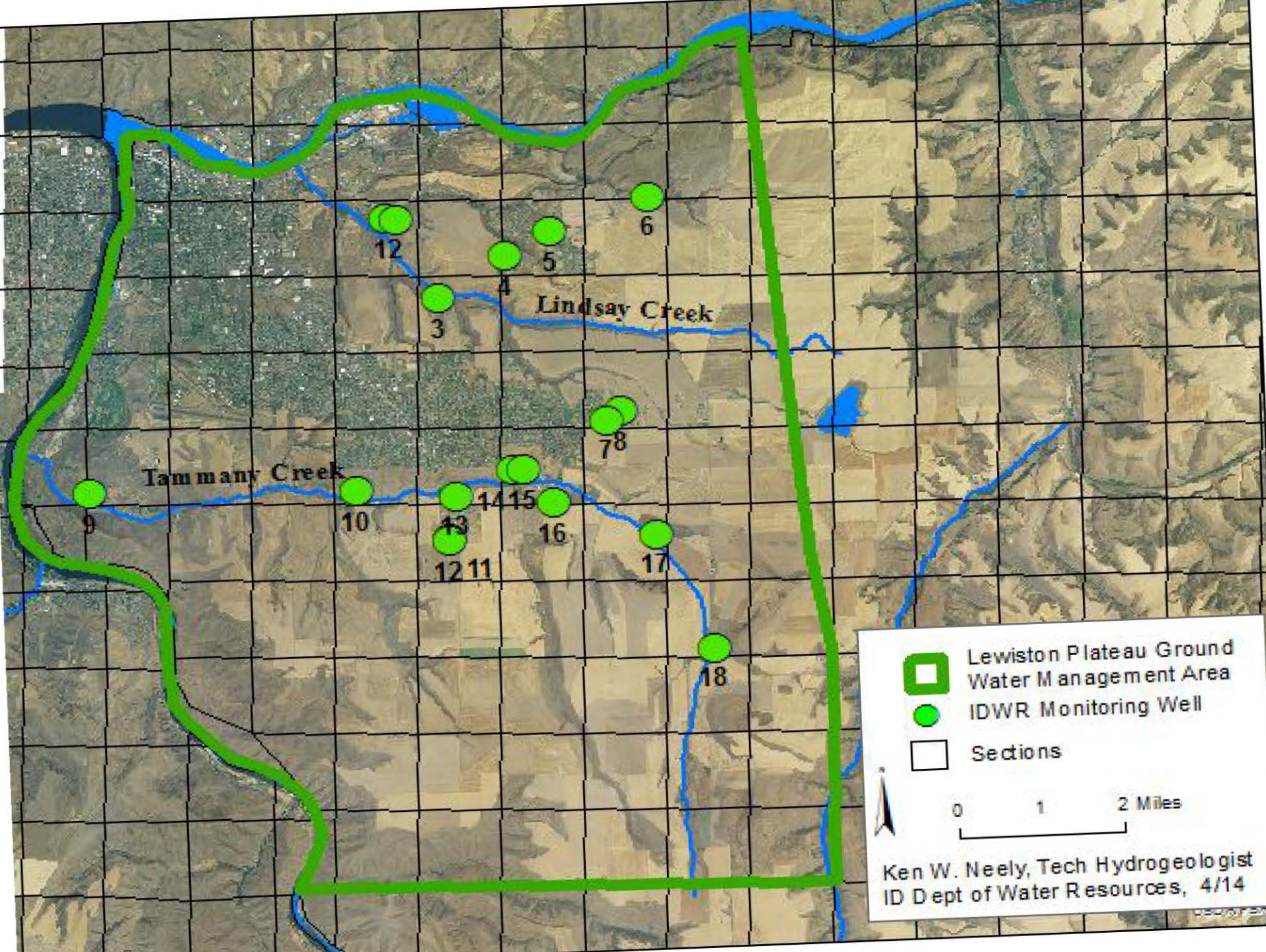
Prepared in cooperation with the Idaho Department of Water Resources, Washington State Department of Ecology, University of Idaho, and Washington State University

By Paul A. Hsieh, Michael E. Barber, Bryce A. Contor, Md. Akram Hossain, Gary S. Johnson, Joseph L. Jones, and Allan H. Wylie



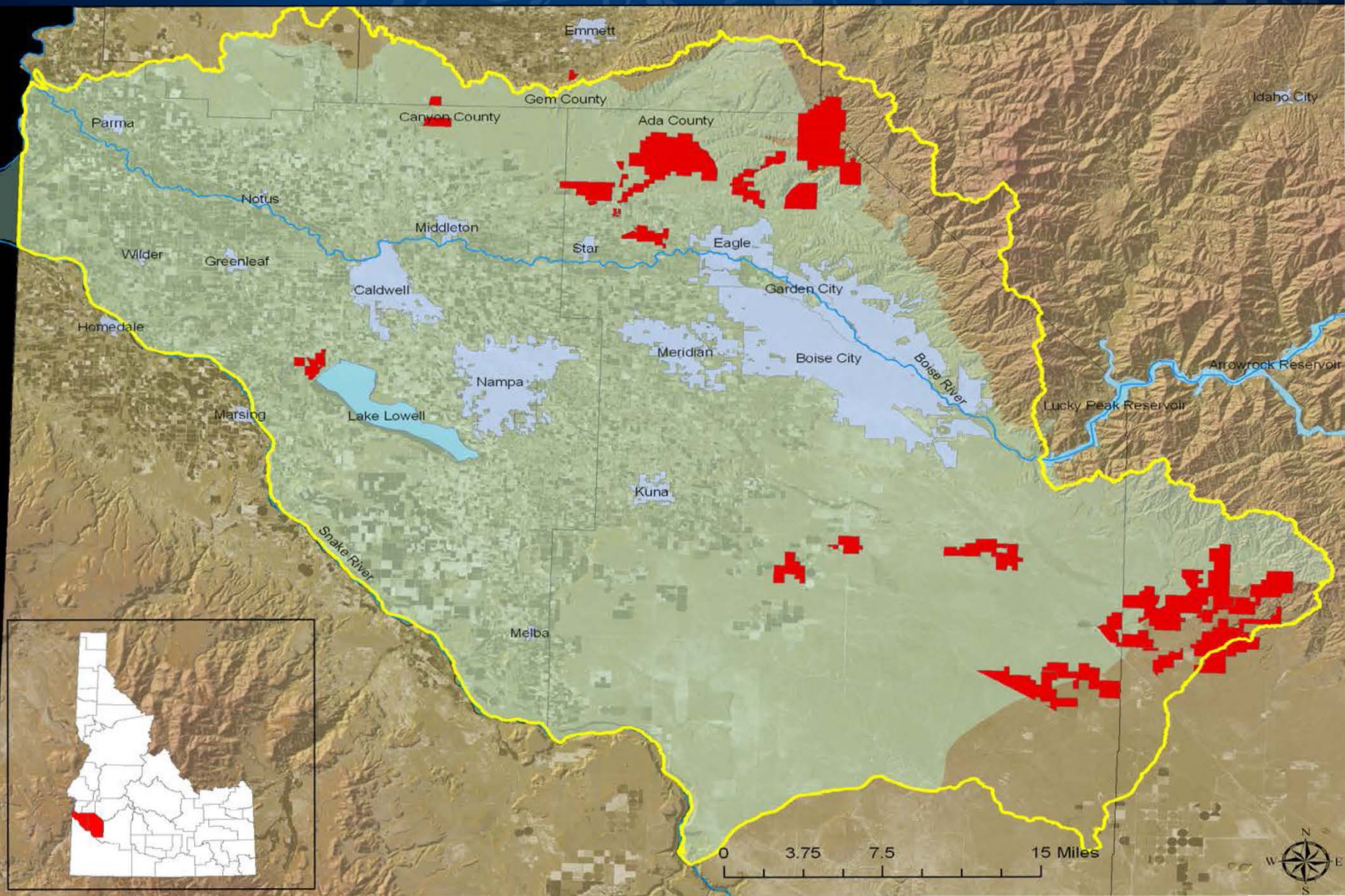
Lewiston Groundwater Management Area





Treasure Valley Aquifer North and East Ada County





Scope of Work

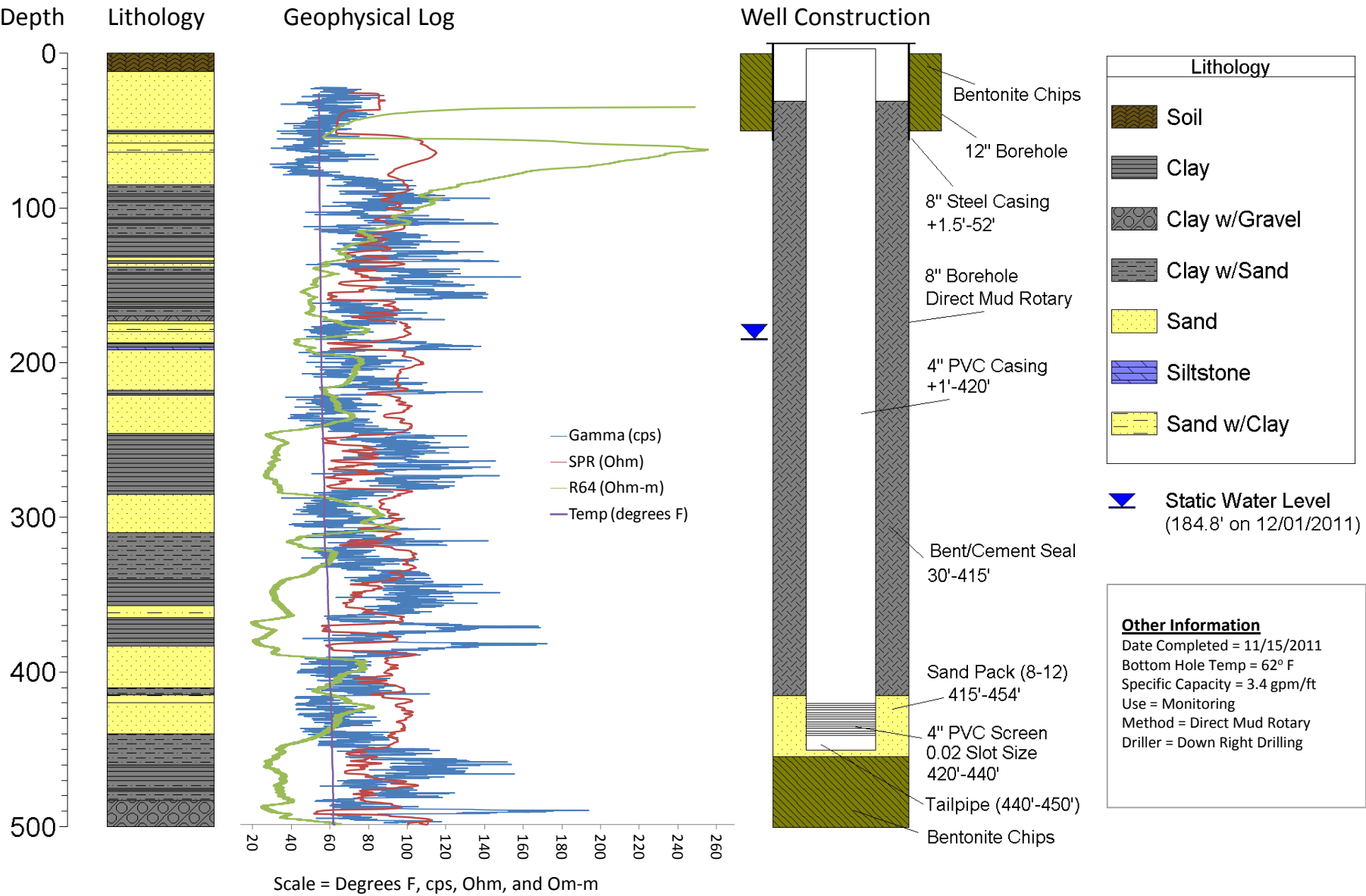
- TVA model assessment
- Geologic mapping
- Surface and borehole geophysics
- Monitor well drilling
- Database development
- Surface and groundwater geochemistry
- Seepage studies and stream gages
- Water level measurements
- Water budget development



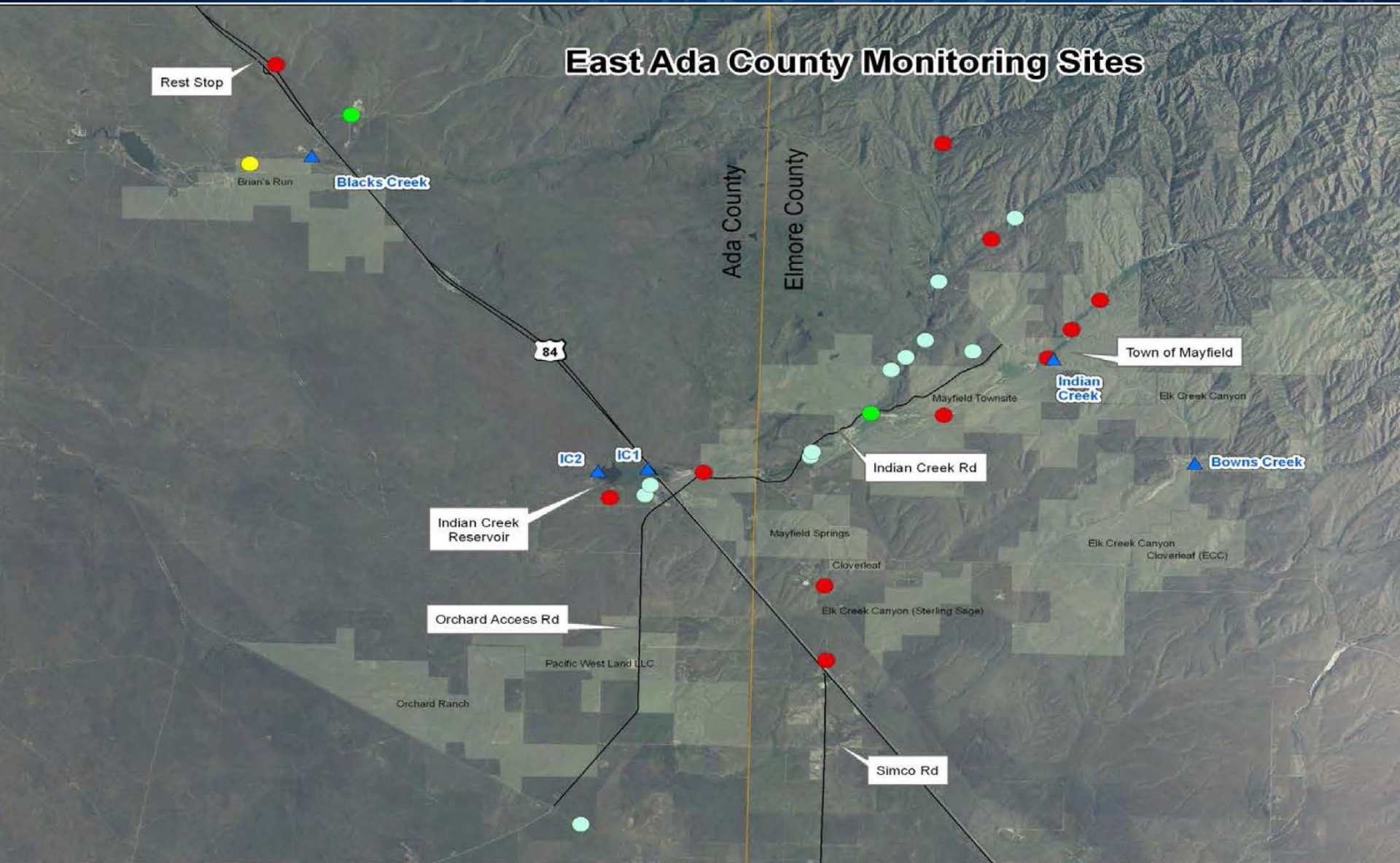
Drilling and Well Installations in North Ada County



IDWR Well #01N04E-23ADC1



East Ada County Monitoring Sites



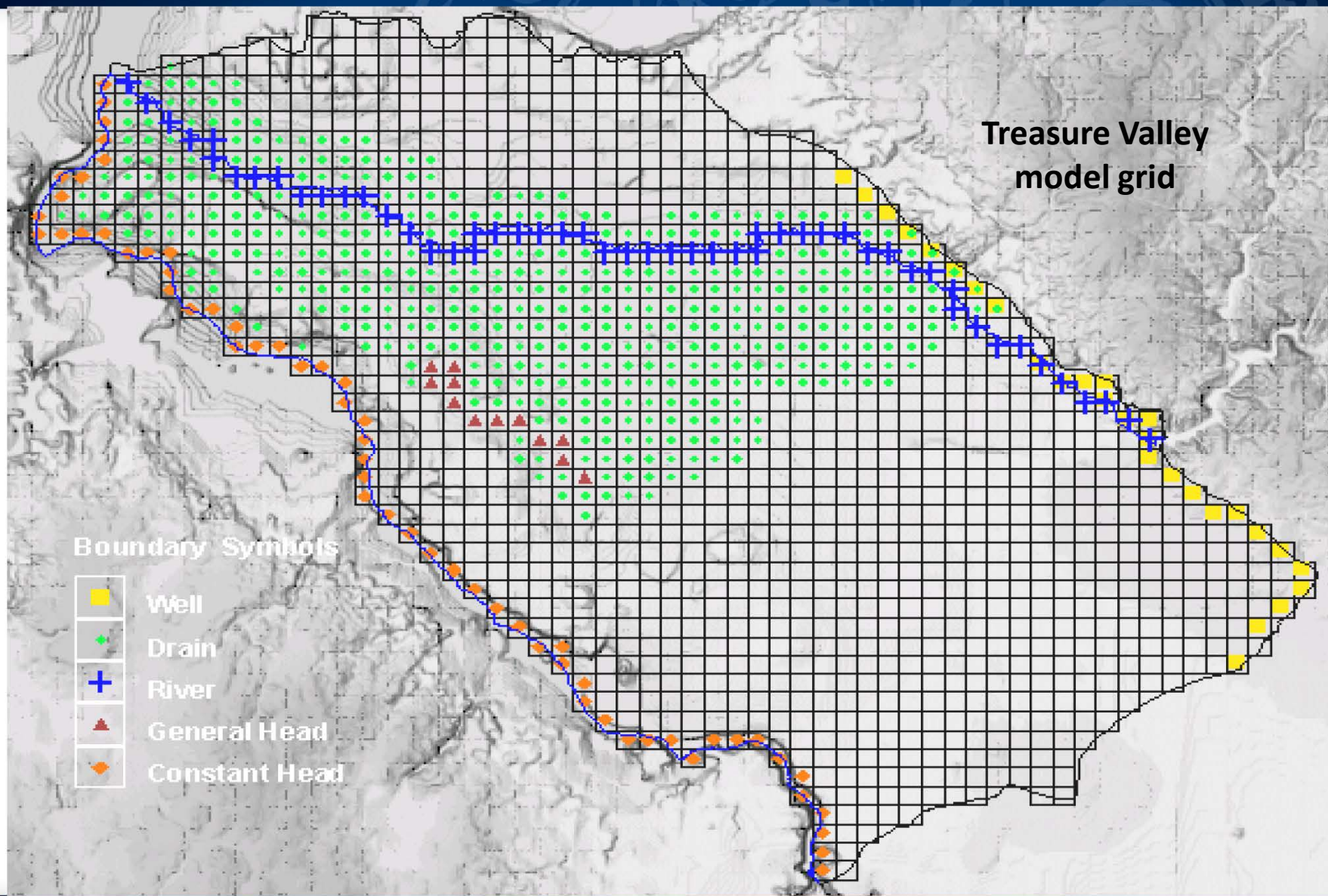
Stream Gage



Blacks Creek







Big Wood River



Wood River Valley groundwater model tasks

- New data collection
 - groundwater levels
 - streamflow measurements
 - Model construction
 - steady state calibration
 - transient calibration
 - Final Report
- *Public outreach and presentations



Glendale Canal

Design Objectives:

Wood River Valley Aquifer System

Groundwater-Flow Model

The Idaho Department of Water Resources (IDWR) and the United States Geological Survey (USGS) have entered into a cooperative study in order to develop a numerical groundwater-flow model of the Wood River Valley Aquifer System (WRVAS). This groundwater-flow model is being developed by the USGS in close collaboration with IDWR staff and is intended for use as a tool to assist water-resource managers and planners in administration and management of water resources in the Wood River Valley.

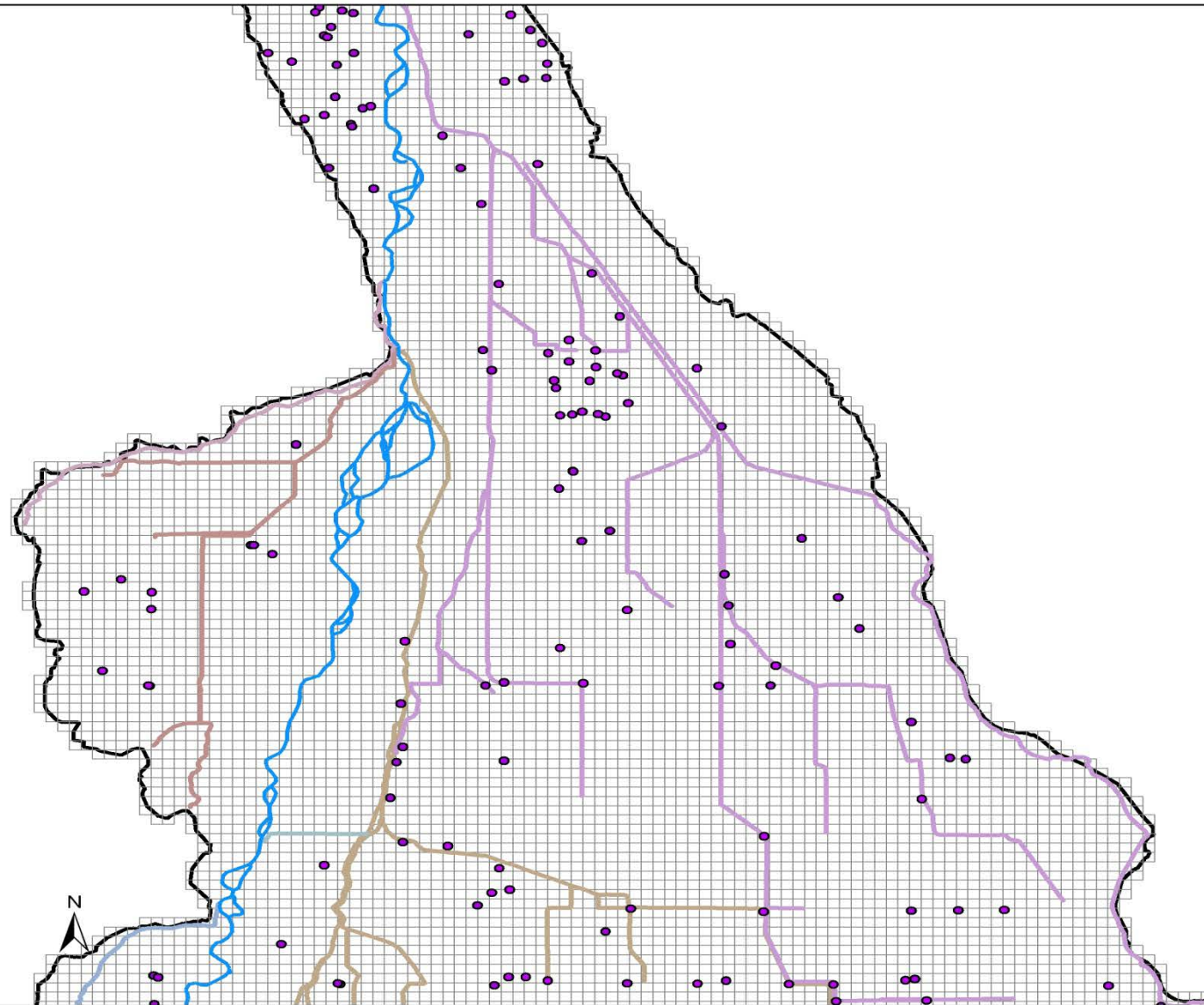
- GW_IrrMuni_RecPOD
- GW_IrrMuni_WRPOD

UprWoodCanals06032013

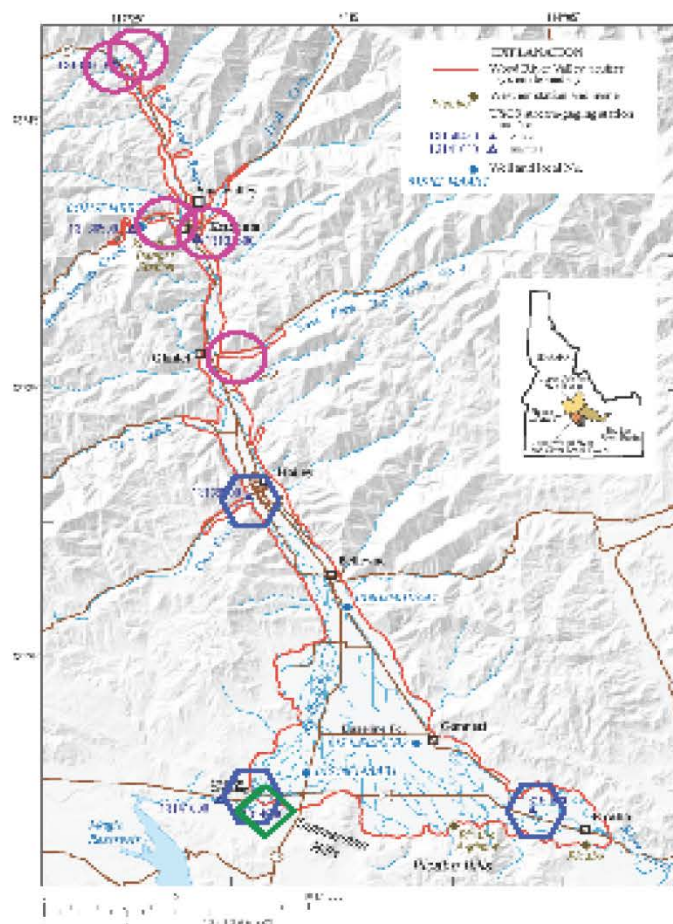
CanalSys

- Comstock
- Rinker
- Mizer
- Hiawatha 22
- Valley Club
- Cove 33
- Broadford 34 to 42
- District 45
- Bannon 49
- Glendale 50
- Bypass Baseline
- Bypass return
- Graff 62
- Loving Silver
- Kilpatrick Albretheson
- ModelGridStudyArea

0 0.5 1
Miles



Real-time stream gages



- Existing gages
 - Big Wood River at Hailey
 - Big Wood River at Stanton Crossing
 - Silver Creek at Sportsman's Access
- ❖ New gages funded by IDWR, District 37, and USGS
 - Big Wood River near Ketchum
 - North Fork Big Wood River
 - Trail Creek
 - Warm Springs Creek
 - East Fork Big Wood River
- ❖ IPCO: Willow Creek



Little Wood River in Gooding

ESPA Model Development and Hydrologic Monitoring Program

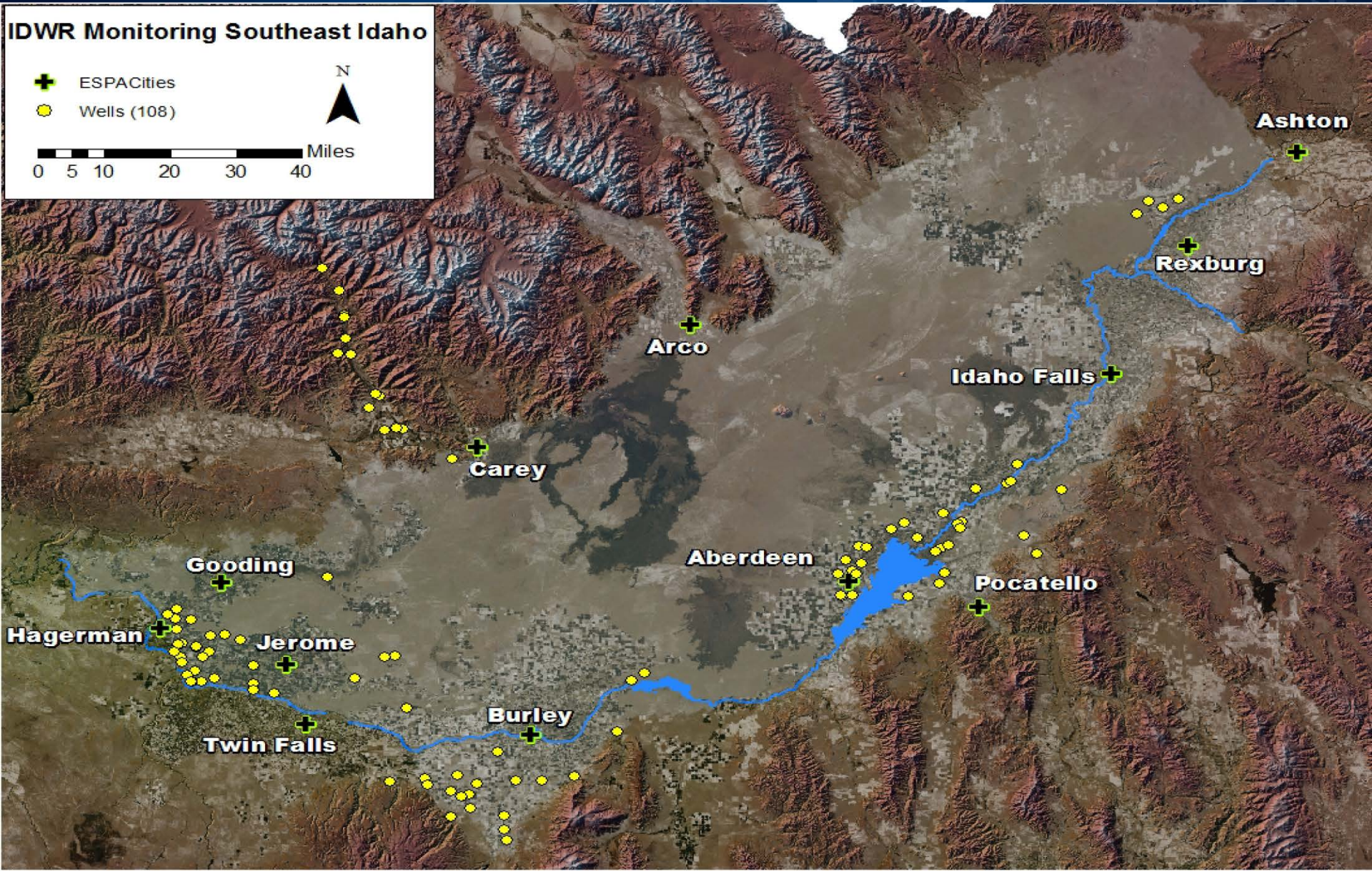


IDWR Monitoring Southeast Idaho

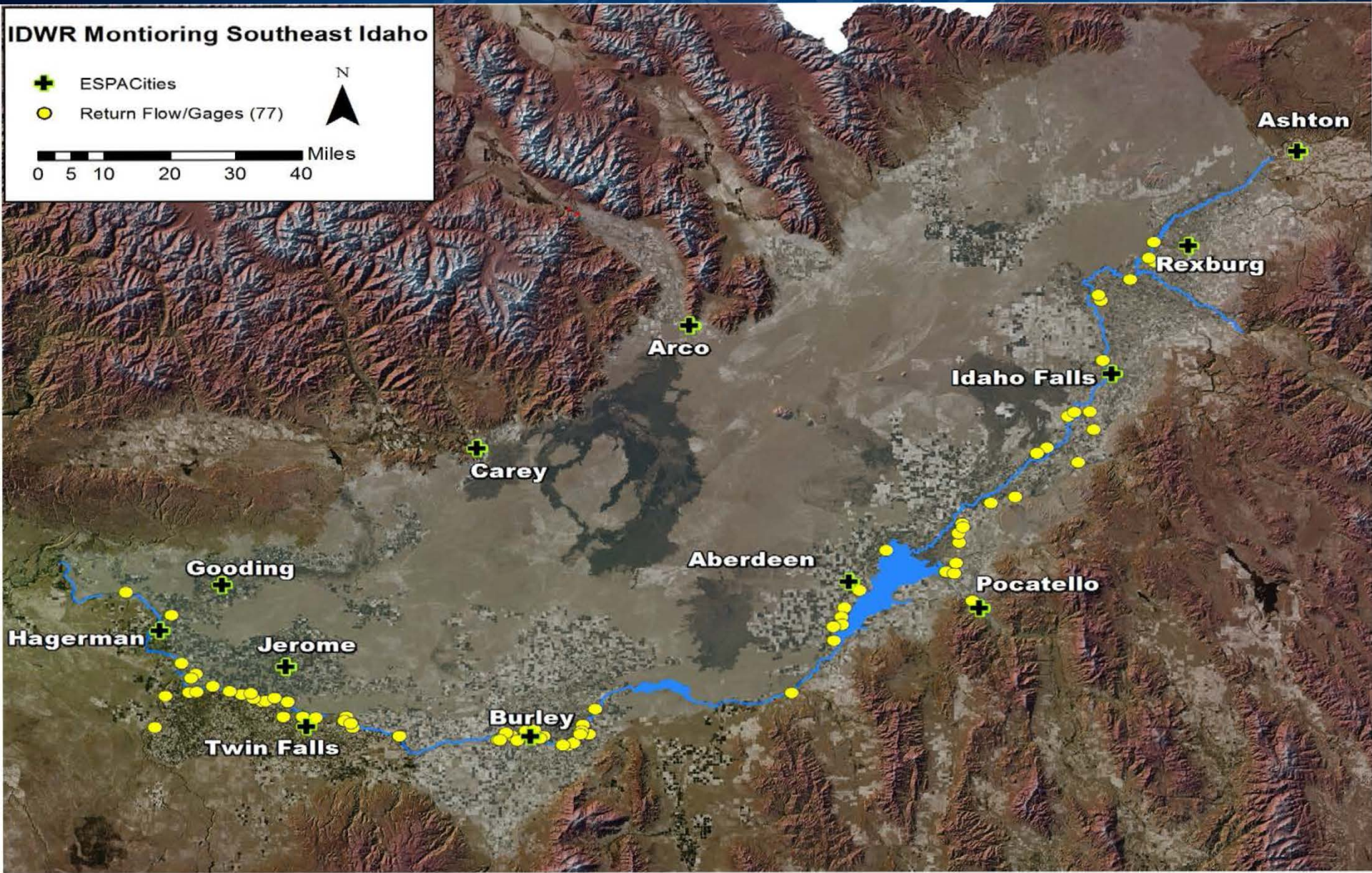
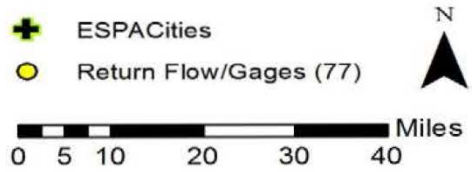
- ✚ ESPACities
- Wells (108)



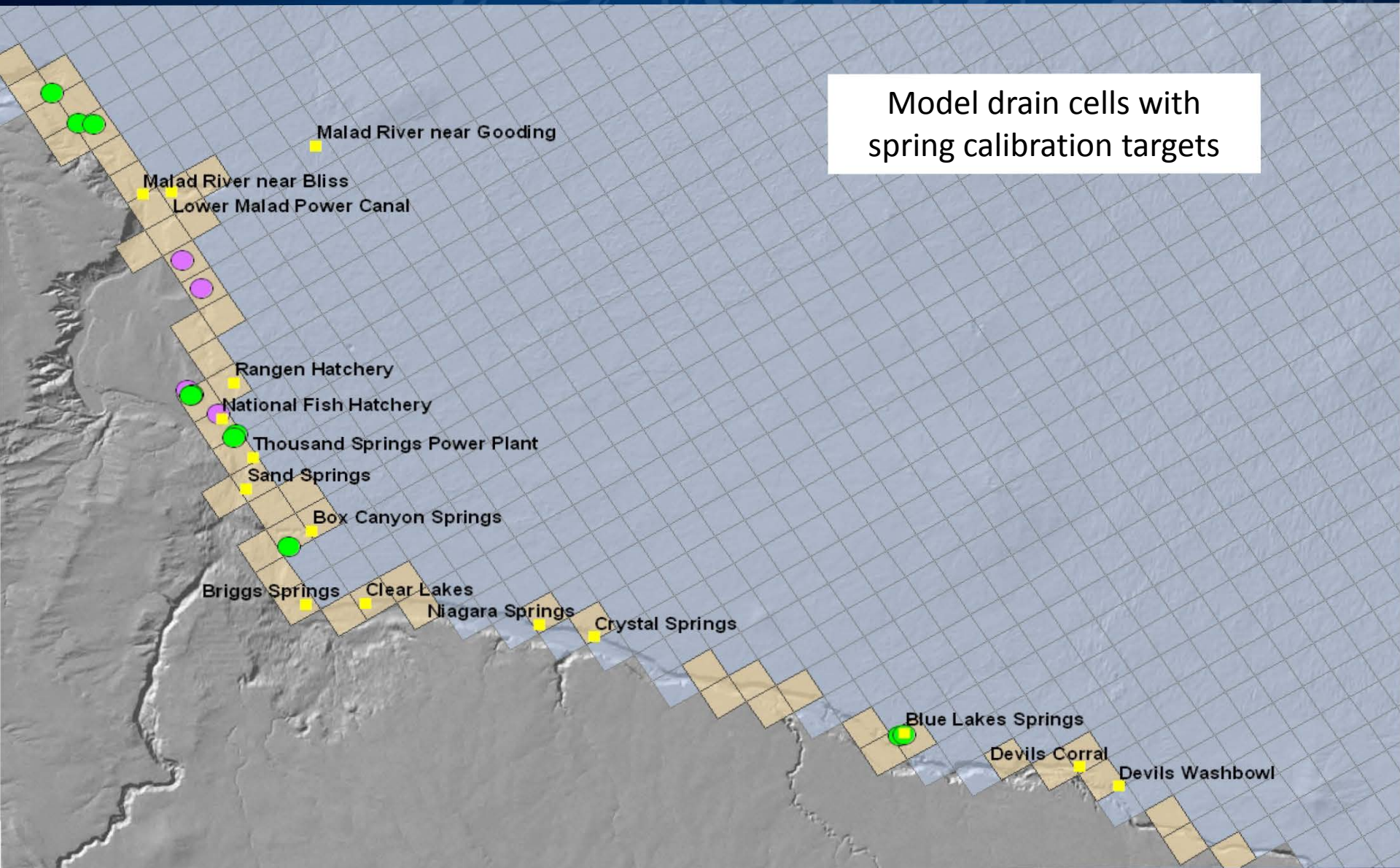
0 5 10 20 30 40 Miles



IDWR Monitoring Southeast Idaho



Model drain cells with
spring calibration targets

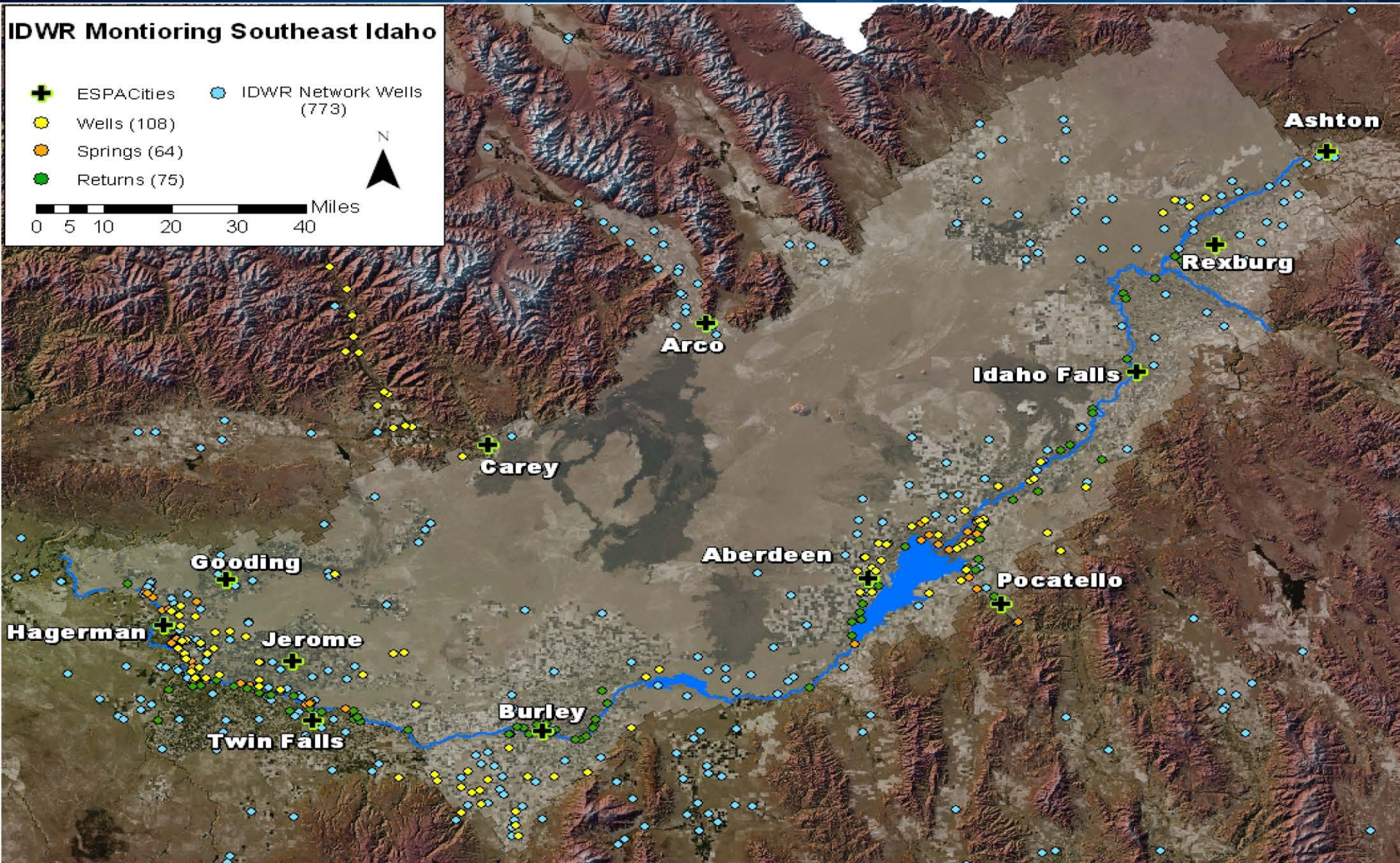


IDWR Monitoring Southeast Idaho

- ✚ ESPACities
- IDWR Network Wells (773)
- Wells (108)
- Springs (64)
- Returns (75)



0 5 10 20 30 40 Miles



Big Bend Ditch – Upper Tucker Spring





New Sweden Irrigation District - End of Slough



Memorandum of Agreement
Between
**The Idaho Department of
Water Resources**
And
**The New Sweden Irrigation
District**
For Purposes of
**Water Measurement and
Data Collection**
May 2012

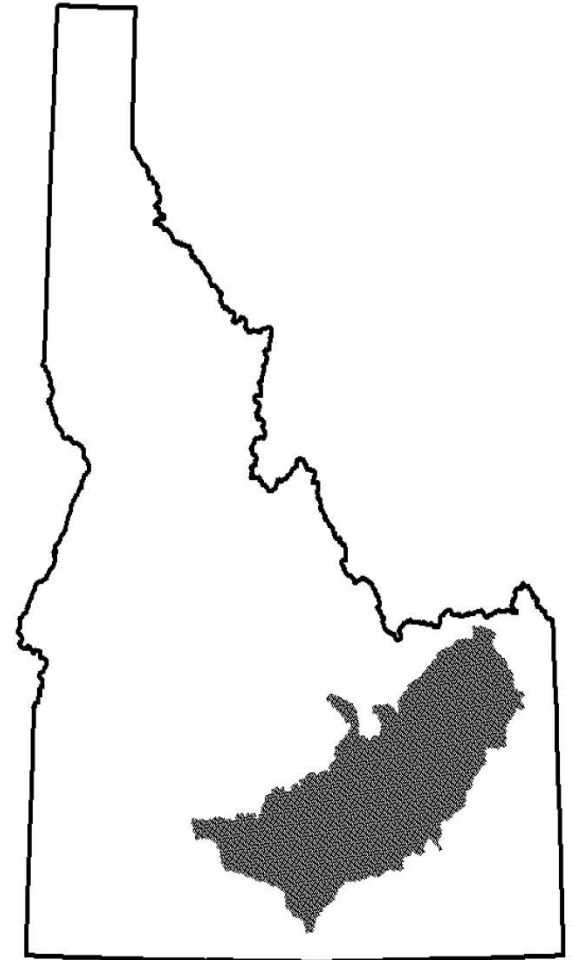


Memorandum of Agreement (MOAs)

- Shoshone-Bannock Tribes
- Aberdeen-Springfield Canal Company
- Idaho Irrigation District
- New Sweden Irrigation District
- North Side Canal Company (in progress)

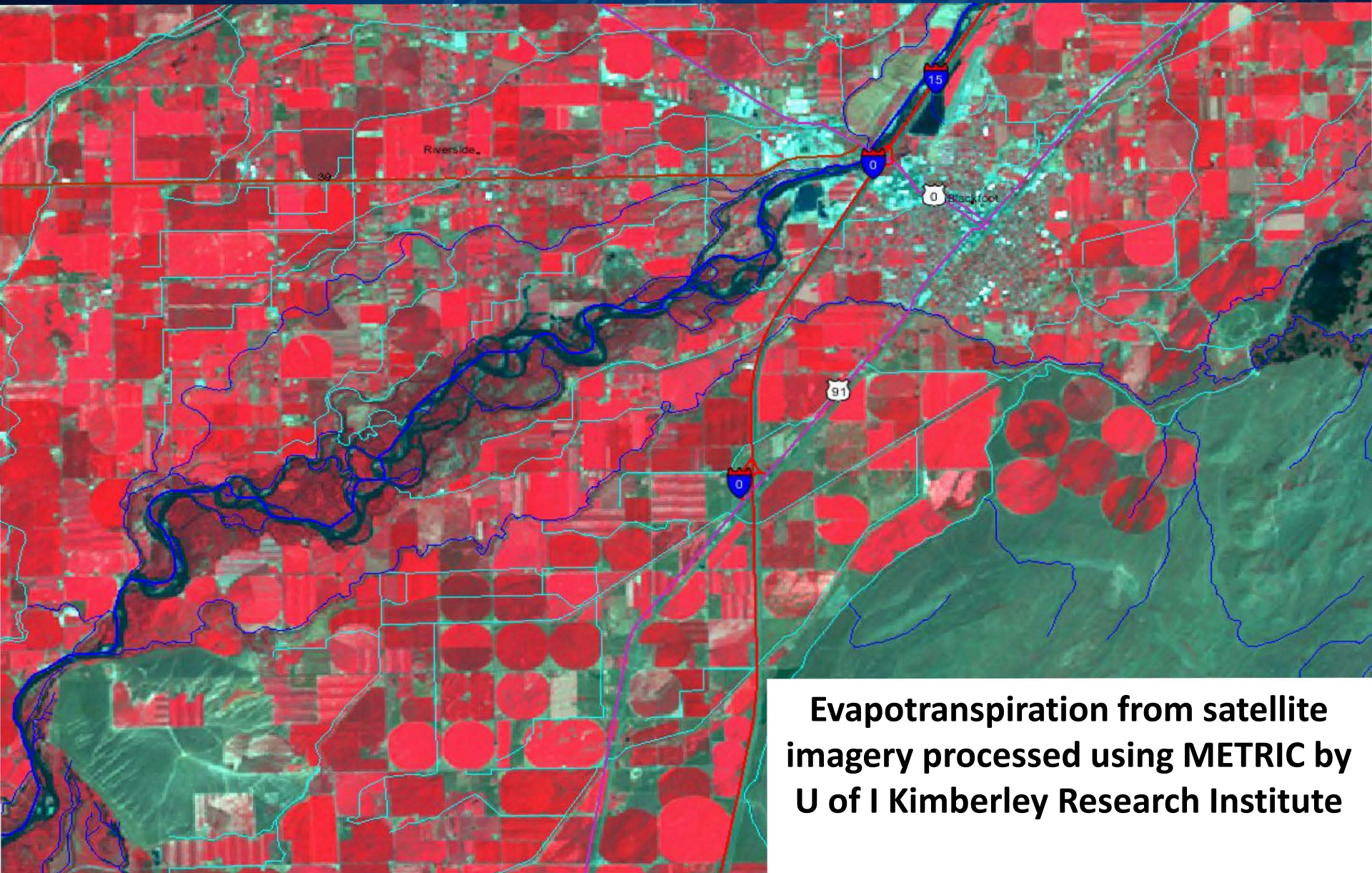
Informal Agreements

- North Side Canal Company
- Twin Falls Canal Company
- Burley Irrigation District
- Minidoka Irrigation District
- Progressive Irrigation District



MOA General Provisions

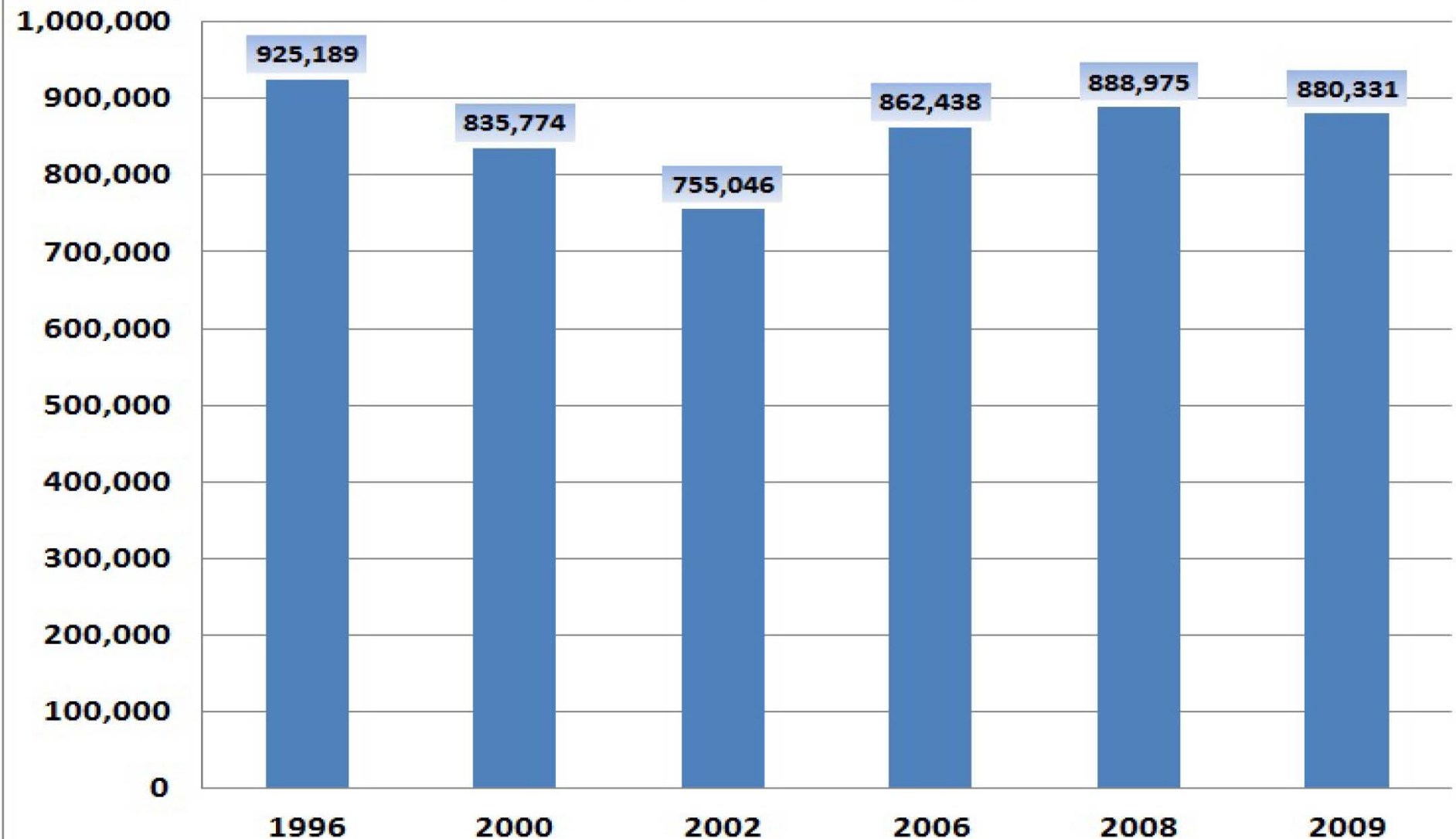
- Regular communications
- Cooperation
- IDWR procures and provides equipment, materials, assistance with site selection and installation activity, performs some field measurements
- Canal Company identifies potential sites, provides the design of weirs, etc., provides equipment and manpower for installations, orders materials, assists in obtaining landowner permission, records staff gage readings, shares data with IDWR



**Evapotranspiration from satellite
imagery processed using METRIC by
U of I Kimberley Research Institute**

Total ET Volume ac-ft

North Side/AFRD2



ENHANCED SNAKE PLAIN AQUIFER MODEL VERSION 2.1

Final Report

November 2012



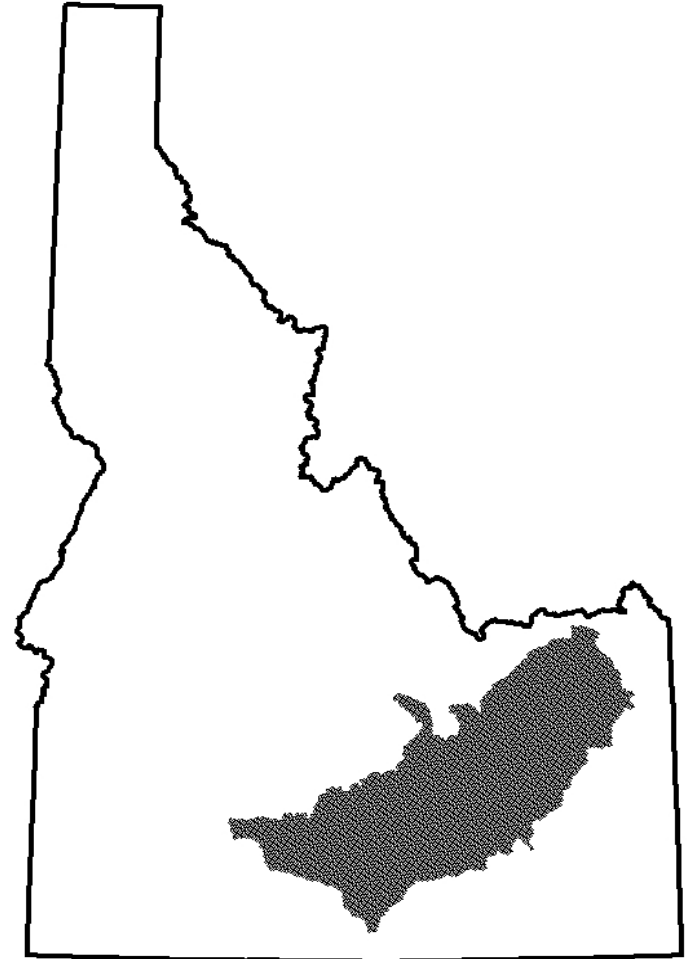
*Idaho
Legislature*



Idaho Department of Water Resources
with guidance from the
Eastern Snake Hydrologic Modeling Committee

IDWR Database Development

- SQL Server
- Ability to query via internet mapping applications
- Future integration with other IDWR databases



Questions?





MEMO

To: Idaho Water Resource Board
From: Brian W. Patton
Subject: Water Resource Projects Funding Program Status Report
Date: May 5, 2014

As of **February 1st** the IWRB's available and committed balances in the Revolving Development Account, Water Management Account, and the Secondary Aquifer Management Account are as follows.

Revolving Development Account (main fund)

Committed but not disbursed	
Loans for water projects	\$4,358,503
Water storage studies	1,555,198
Total committed but not disbursed	5,913,701
Loan principal outstanding	8,503,008
Uncommitted balance	3,231,577
Estimated revenues next 12 months	2,300,000
Commitments from revenues next 12 months	0
Estimated uncommitted funds over next 12 months	5,531,577

Rev. Dev. Acct. ESPA Sub-Account

Committed but not disbursed	
CREP	2,419,581
Aquifer recharge	343,494
Bell Rapids	361,620
Palisades storage	10,000
Black Canyon Exchange	529,445
Loan for water project	250,000
Total committed but not disbursed	\$3,914,140
Loan principal outstanding	321,316
Uncommitted balance	151,446
Estimated revenues next 12 months	172,000
Commitments from revenues over next 12 months	0
Estimated uncommitted funds over next 12 months	323,446

Rev. Dev. Acct. Bell Rapids Sub-Account

Committed but not disbursed (finance costs)	\$180,270
Estimated revenues next 12 months (I)	2,000
Commitments from revenues over next 12 months	2,000
Estimated uncommitted funds over next 12 months	0

Rev. Dev. Acct. Water Supply Bank Sub-Account

Committed but not disbursed (payments to owners)	\$32,245
Estimated revenues next 12 months (I)	1,000
Commitments from revenues over next 12 months	32,245
Estimated uncommitted funds over next 12 months	1,000

Rev. Dev. Acct. Dworshak Hydropower (2)

Committed but not disbursed (repair fund, etc.)	\$1,337,151
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Estimated revenues next 12 months (3)	200,000
Commitments from revenues over next 12 months	200,000
Estimated uncommitted funds over next 12 months	0
<i>Rev. Dev. Acct. Treasure Valley & Rathdrum Prairie CAMP Sub-Account</i>	
Committed but not disbursed	\$90,000
Reserved for RP and TV CAMP projects	178,745
Estimated revenues next 12 months (5)	200,000
Estimated uncommitted funds over next 12 months	0
<i>Rev. Dev. Acct. Pristine Springs Sub-Account</i>	
Committed but not disbursed	
Repair fund	\$1,177,428
ESPA CAMP	716,000 (to be transferred to Secondary
Aquifer Fund)	
Total committed but not disbursed	\$1,893,428
Loan principal outstanding	7,127,940
Uncommitted balance	0
Estimated revenues next 12 months	800,000
Commitments from revenues over next 12 months	800,000
Estimated uncommitted funds over next 12 months	0
<i>Rev. Dev. Acct. Upper Salmon/CBWTP Sub-Account</i>	
Committed but not disbursed	\$2,637,044
(Upper Salmon flow enhancement/reconnect projects)	
Estimated revenues next 12 months (4)	30,000
Commitments from revenues over next 12 months	30,000
Estimated uncommitted funds over next 12 months	0
<i>Water Management Account</i>	
Committed but not disbursed:	\$111,376
Loan principal outstanding	201
Uncommitted balance	9,666
Estimated revenues next 12 months	201
Commitments from revenues over next 12 months	0
Estimated uncommitted funds over next 12 months	\$9,867
<i>Secondary Aquifer Management Fund</i>	
Committed but not disbursed:	\$1,595,389
Uncommitted balance	2,511,862
Estimated revenues next 12 months	716,000
Commitments from revenues over next 12 months	0
Estimated uncommitted funds over next 12 months	3,227,862
Total committed but not disbursed	\$17,636,179
Total loan principal outstanding	15,952,464
Total uncommitted balance	5,904,850
Total estimated uncommitted funds over next 12 months	9,093,752

(1) Exclusive of pass-through payments made by the U.S. Bureau of Reclamation.

(2) Excess funds generated by the Dworshak Hydropower Project are deposited into the Revolving Development Account (Main Fund) on a monthly basis. To the date of this report this has totaled \$2,635,891.

(3) This line item includes power sales and interest income after removing debt service. Debt service is paid prior to the funds being deposited in the Revolving Development Account.

(4) Exclusive of project funds provided by Bonneville Power Administration or federal appropriation sources. These funds are provided to the Board based on individual project proposals and so are not included in the income projection.

The following is a list of potential loans that we know about:

Potential Applicant	Potential Project	Preliminary Loan Amount	Comment
Northside Pumping Company	Rebuild pump plant and rehab system	\$1 million	Project in planning. Applying for NRCS cost share grants
A&B Irrigation District	GW Conversion Pipeline	\$5M over 2 years	Project in planning and design. Received \$4.1M from NRCS grants thru AWEF.
Raft River Ground Water District	Ground water-to-surface water conversion pipeline	\$2 million	Project in planning. Applying for NRCS cost share grants.
Marysville Irrigation Company/North Fremont	Gravity pipeline system – next phase	\$1.5 million	Project in planning and design. Applying for NRCS cost share grants

IDAHO WATER RESOURCE BOARD
Sources and Applications of Funds
as of January 31, 2014
REVOLVING DEVELOPMENT ACCOUNT

Original Appropriation (1969).....	\$500,000.00
Legislative Audits.....	(\$49,404.45)
IWRB Bond Program.....	(\$15,000.00)
Legislative Appropriation FY90-91.....	\$250,000.00
Legislative Appropriation FY91-92.....	\$280,700.00
Legislative Appropriation FY93-94.....	\$500,000.00
IWRB Studies and Projects.....	(\$249,067.18)
Loan Interest.....	\$6,578,582.53
Interest Earned State Treasury (Transferred).....	\$1,628,383.59
Filing Fee Balance.....	\$47,640.20
Bond Fees.....	\$1,469,601.45
Arbitrage Calculation Fees.....	(\$12,000.00)
Protest Fees.....	(\$400.00)
Series 2000 (Caldwell/New York) Pooled Bond Issuers fees.....	\$43,657.93
2012 Ground Water District Bond Issuer fees.....	\$377,000.00
Bond Issuer fees.....	\$48,774.09
Attorney fees for Jughandle LID.....	(\$3,600.00)
Water Supply Bank Receipts.....	\$3,444,079.56
Legislative Appropriation FY01.....	\$200,000.00
Pierce Well Easement.....	\$2,000.00
Transferred to/from Water Management Account.....	\$317,253.80
Legislative Appropriation 2004, HB843.....	\$500,000.00
Legislative Appropriation 2009, SB 1511 Sec 2, Teton/Minidoka Studies.....	\$1,800,000.00
Legislative Appropriation 2009, SB 1511 Sec 2, Teton/Minidoka Studies Expenditures.....	(\$1,221,960.18)
Weiser Galloway Study - US Army Corps of Engineers.....	(\$1,445,569.12)
Boise River Storage Feasibility Study.....	(\$24,565.07)
Bell Rapids Water Rights Sub-Account	
Legislative Appropriation 2005, HB392.....	\$21,300,000.00
Interest Earned State Treasury.....	\$692,410.59
Bell Rapids Purchase.....	(\$16,006,558.00)
Bureau of Reclamation Principal Amount Lease Payment Paid.....	\$8,294,337.54
Bureau of Reclamation Interest Paid.....	\$179,727.97
Bureau of Reclamation Remaining Amount Lease Payment Paid.....	\$9,142,649.54
First Installment Payment to Bell Rapids.....	(\$1,313,236.00)
Second Installment Payment to Bell Rapids.....	(\$1,313,236.00)
Third Installment Payment to Bell Rapids.....	(\$1,313,236.00)
Fourth Installment Payment to Bell Rapids.....	(\$1,040,431.55)
Interest Credit due to Bureau of Reclamation (Part of Fourth Installment).....	(\$19,860.45)
Fifth Installment Payment to Bell Rapids.....	(\$1,055,000.00)
Transfer to General Fund - Principal.....	(\$21,300,000.00)
Transfer to General Fund - Interest.....	(\$772,052.06)
BOR payment for Bell Rapids.....	\$1,040,431.55
BOR payment for Bell Rapids.....	\$1,313,236.00
BOR prepayment for Bell Rapids.....	\$1,302,981.70
BOR prepayment for Bell Rapids.....	\$1,055,000.00
BOR payment for Alternative Financing Note.....	\$7,117,971.16
Payment to US Bank for Alternative Financing Note.....	(\$7,118,125.86)
Payment for Ongoing Bell Rapids Finance Costs (trustee fees, water bank, etc.).....	(\$6,740.10)
Commitments	
Ongoing Bell Rapids Finance Costs (trustee fees, etc.).....	\$180,270.03
Committed for alternative finance payment.....	\$0.00
Total Commitments.....	\$180,270.03
Balance Bell Rapids Water Rights Sub-Account.....	(\$0.00)
Pristine Springs Project Sub-Account	
Legislative Appropriation 2008, SB1511, Pristine Springs.....	\$10,000,000.00
Legislative Appropriation 2006, HB870, Water Right Purchases.....	\$5,000,000.00
Interest Earned State Treasury.....	\$33,522.97
Loan Interest.....	\$1,775,809.73
Transfer from ESP Sub-Account.....	\$1,000,000.00
Payment for Purchase of Pristine Springs (3).....	(\$16,000,000.00)
Payment from Magic Valley & Northsnake GWD for Pristine Springs.....	\$3,252,948.42
Appraisal.....	(\$25,500.00)
Insurance.....	(\$26,246.25)
Recharge District Assessment.....	(\$9,271.35)
Water District 130 Annual Assessment.....	(\$1,467.81)
Hydro Plants Engineering Certification (Straubhar).....	(\$3,000.00)
Payment to EHM Engineers for pipeline work.....	(\$1,200.00)
Payment to John Root for Easement Survey.....	(\$1,000.00)
Payment to MWH Americas Inc.....	(\$11,326.27)
Telemetry Station Equipment.....	(\$15,193.92)
Rein Tech LLC (Satellite phone annual payment).....	(\$990.00)
Standley Trenching (Trac system for communication equip).....	(\$2,783.99)
Property Taxes and other fee assessments (Jerome County).....	(\$6,319.39)
Rental Payments.....	\$1,433,852.46
Payments to Scott Kaster.....	(\$36,734.08)
Utility Payments (Idaho Power).....	(\$25,484.08)
Costs for property maintenance.....	(\$20,389.18)
Travel costs for property maintenance.....	(\$351.30)
Transferred to Secondary Aquifer Fund (2011 Legislature; HB 291).....	(\$2,465,300.00)
Transferred to Secondary Aquifer Fund (2012 Legislature; SB 1389).....	(\$1,232,000.00)
Transferred to Secondary Aquifer Fund (2013 Legislature; HB 270).....	(\$716,000.00)
Pristine Springs Hydropower Projects	
Net power sales revenues.....	\$312,801.82
Pristine Springs Committed Funds	
ESPA CAMP (to be transferred to Secondary Fund).....	716,000.00

Repair/Replacement Fund.....	\$1,177,427.96	
TOTAL COMMITTED FUNDS.....	\$1,893,427.96	
Loans Outstanding		
North Snake and Magic Valley Ground Water Districts.....	\$7,127,940.18	
Total Loans Outstanding.....	\$7,127,940.18	
Funds to RP CAMP & TV CAMP Sub-Account		\$271,672.34
Pristine Springs Revenues into Main Revolving Development Account.....		\$46,297.48
Rathdrum Prairie CAMP & Treasure Valley CAMP Sub-Account		
Pristine Springs Hydropower and Rental Revenues.....		\$271,672.34
Interest Earned State Treasury.....		\$573.11
Spokane River Forum.....		(\$3,000.00)
Treasure Valley Water Quality Summit.....		(\$500.00)
Committed Funds.....		
Kootenai-Shoshone Soil & Water Cons. Dist. - Agrimet Station.....	\$20,000.00	
Rathdrum Prairie-Spokane Valley Aquifer Pumping Study.....	\$70,000.00	
Treasure Valley Water Quality Summit.....	\$0.00	
TOTAL COMMITTED FUNDS.....	\$90,000.00	
Balance Rathdrum Prairie CAMP & Treasure Valley CAMP Sub-Account.....		\$178,745.45
Upper Salmon/CBWTP Sub-Account		
Water Transaction Projects Payment Advances from CBWTP/Agcord	\$2,846,171.47	
PCSRF Funds for Administration of Non-Diversion Easements on Lemhi River.....	\$237,807.26	
Interest Earned State Treasury.....	\$95,548.07	
Transfer to Water Supply Bank.....	(\$54,088.93)	
Change of Ownership.....	(\$600.00)	
Alturas Lake Creek Appraisal.....	(\$8,989.23)	
Payments for Water Acquisition	(\$478,804.14)	
Committed Funds		
Administration of Non-Diversion Easements on Lemhi River.....	\$151,326.69	
Alturas Lake Creek (Breckenridge).....	(\$0.00)	
Bayhorse Creek.....	\$27,772.86	
Beaver Creek (DOT LLP).....	\$15,756.01	
Big Hat Creek.....	\$270.85	
Big Timber Tyler (Leadore Land Partners).....	\$407,228.77	
Canyon Creek/Big Timber Creek (Beyeler).....	\$364,847.61	
Fourth of July Creek (Vanderbilt).....	\$17,581.57	
Iron Creek (Phillips).....	\$201,594.12	
Lemhi River & Little Springs Creek (Kauer).....	\$17,945.49	
Little Springs Creek (Snyder).....	\$240,020.90	
Lower Eighteenmile Creek (Ellsworth Angus Ranch).....	\$6,058.63	
Lower Lemhi M Olson (Mark Olson).....	\$11,218.29	
Lower Lemhi Thomas (Robert Thomas).....	\$2,070.46	
P-9 Bowles (River Valley Ranch).....	\$262,421.07	
P-9 Charlton (Sydney Downton).....	\$17,316.25	
P-9 Downton (Jim Downton Ranch).....	\$207,503.73	
P-9 Elzinga (Elzinga).....	\$256,665.14	
Patterson-Big Springs (PBSC9).....	\$160,787.34	
Sulphur Creek.....	\$12,305.00	
Whitefish (Leadore Land Partners).....	\$167,789.90	
Total Committed Funds.....	\$2,568,480.66	
Balance CBWTP Sub-Account.....		\$68,563.84
Water Supply Bank Sub-Account		
Payments received from renters for 2013 season.....	\$529,823.25	
Payments made to owners for 2013 season.....	(\$500,171.57)	
Interest Earned State Treasury.....	\$519.84	
Committed Funds:		
Owners Share.....	\$32,244.87	
Total Committed Funds.....	\$32,244.87	
Balance Water Supply Bank Sub-Account.....		(\$2,073.35)
Eastern Snake Plain Sub-Account		
Legislative Appropriation 2005, HB392.....	\$7,200,000.00	
Legislative Appropriation 2005, HB392, CREP Program.....	\$3,000,000.00	
Interest Earned State Treasury.....	\$1,890,129.32	
Loan Interest.....	\$195,705.49	
Bell Rapids Water Rights Closing Costs.....	(\$6,558.00)	
First Installment Payment to Bell Rapids Irr. Co. (Partial).....	(\$361,800.00)	
Second Installment Payment to Bell Rapids Irr. Co. (Partial).....	(\$361,800.00)	
Third Installment Payment to Bell Rapids Irr. Co. (Partial).....	(\$361,800.00)	
Fourth Installment Payment to Bell Rapids Irr. Co. (Partial).....	(\$614,744.00)	
Fifth Installment Payment to Bell Rapids Irr. Co. (Final).....	(\$1,675,036.00)	
Reimbursement from Commerce & Labor W-Canal.....	\$74,709.77	
Transfer to Pristine Springs Sub Account.....	(\$1,000,000.00)	
Reimbursement from Magic Valley GWD - Pristine Springs.....	\$500,000.00	
Reimbursement from North Snake GWD - Pristine Springs.....	\$500,000.00	
Reimbursement from Water District 1 for Recharge.....	\$159,764.73	
Palisades (FMC) Storage Costs.....	(\$3,511,902.39)	
Reimbursement from BOR for Palisades Reservoir.....	\$2,381.12	
W-Canal Project Costs.....	(\$326,834.11)	
Black Canyon Exchange Project Costs.....	(\$71,680.00)	
Black Canyon Exchange Project Revenues.....	\$23,800.00	
2008 Recharge Conveyance Costs.....	(\$14,580.00)	
2009 Recharge Conveyance Costs.....	(\$355,253.00)	
2010 Recharge Conveyance Costs.....	(\$484,231.62)	
Additional recharge projects preliminary development.....	(\$6,505.89)	
Pristine Springs Cost Project Costs.....	(\$6,863.91)	
Loans and Other Commitments		
Commitment - ESPA Comprehensive Aquifer Management Plan - CDR Contract.....	\$0.00	
Commitment - North Snake & Magic Valley GWD Loan - Mitigation Pipeline.....	\$250,000.00	
Commitment - Remainder of Bell Rapids Water Rights Purchase (1).....	\$361,620.00	
Commitment - CREP Program (HB392, 2005).....	\$2,419,580.50	

Commitment - Recharge Conveyance.....	\$0.00	
Commitment - Additional recharge projects preliminary development.....	\$343,494.11	
Commitment - Palisades Storage O&M.....	\$10,000.00	
Commitment - Black Canyon Exchange Project (fund with ongoing revenues).....	\$529,444.95	
Commitment - W-Canal Aquifer and Recharge Conveyance.....	\$0.00	
Total Loans and Other Commitments.....	\$3,914,139.56	
Loans Outstanding:		
American Falls-Aberdeen GWD (CREP).....	\$105,055.70	
Bingham GWD (CREP).....	\$0.00	
Bonneville Jefferson GWD (CREP).....	\$62,317.68	
Magic Valley GWD (CREP).....	\$100,453.62	
North Snake GWD (CREP).....	\$53,488.61	
TOTAL ESP LOANS OUTSTANDING.....	\$321,315.61	
Uncommitted Balance Eastern Snake Plain Sub-Account.....		\$151,446.34
Dworshak Hydropower Project		
Dworshak Project Revenues		
Power Sales & Other.....	\$6,251,812.94	
Interest Earned State Treasury.....	475,319.66	
Total Dworshak Project Revenues.....		\$6,727,132.60
Dworshak Project Expenses (2)		
Transferred to 1st Security Trustee Account.....	\$148,542.63	
Construction not paid through bond issuance.....	\$226,106.83	
1st Security Fees.....	\$314,443.35	
Operations & Maintenance.....	\$1,644,780.62	
Powerplant Repairs.....	\$58,488.80	
Capital Improvements.....	\$318,366.79	
FERC Payments.....	\$43,381.35	
Total Dworshak Project Expenses.....		(\$2,754,110.37)
Dworshak Project Committed Funds		
Emergency Repair/Future Replacement Fund.....	\$1,314,575.00	
FERC Fee Payment Fund.....	\$22,576.30	
Total Dworshak Project Committed Funds.....		\$1,337,151.30
Excess Dworshak Funds into Main Revolving Development Account.....		\$2,635,870.93
TOTAL.....		\$17,648,255.56
Loans Outstanding:	Amount	Principal
	Loaned	Outstanding
Aberdeen-Springfield Canal Company (WRB-491; Diversion structure).....	\$329,761	\$176,089.24
Big Wood Canal Company (23-Jan-09; Thorn Creek Flume).....	\$90,000	\$15,311.59
Boise City Canal Company (WRB-492)...18th St Canal Rehab	\$82,362	\$10,712.08
Boise City Canal Company (WRB-492)...Grove St Canal Rehab	\$110,618	\$42,410.13
Bonnie Laura Water Corporation (14-Jul-06; Well repairs).....	\$71,000	\$31,928.91
Canyon County Drainage District No. 2 (28-Nov-12; Drain tile pipeline	\$35,000	\$32,054.85
Carlin Bay Property Owners Association.....	\$115,609	\$0.00
Challis Irrigation Company (28-Nov-07; river gate replacement).....	\$50,000	\$25,843.98
Chaparral Water Association.....	\$90,154	\$11,271.74
Chaparral Water Association (21-Jan-11; Well deepening & improve	68,000	\$27,853.56
Cloverdale Ridge Water Corp. (irrigation system rehab 25-sep-09).....	106,400	\$72,611.48
Consolidated Irrigation Company (July 20, 2012; pipeline project).....	1,500,000.00	\$475,000.00
Country Club Subdivision Water Association (18-May-07; Well Project)	\$102,000	\$57,568.63
Cub River Irrigation Company (18-Nov-05; Pipeline project).....	\$1,000,000	\$813,111.70
Cub River Irrigation Company.....	\$500,000	\$374,620.59
Dalton Water Association (14-Mar-08; Water main replacement).....	\$375,088	\$0.00
Deep Creek Property Owners Association.....	\$25,115	\$0.00
Enterprise Irrigation District (14-Jul-06; Pipeline project).....	\$37,270	\$17,396.11
Enterprise Irrigation District (North Lateral Pipeline).....	\$105,420	\$44,658.95
Evergreen Terrace Water Association (water study; 25-sep-09).....	\$15,000	\$0.00
Firth, City of.....	\$112,888	\$29,512.12
Foothills Ranch Homeowners Association (7-oct-11; well rehab).....	\$150,000	\$128,960.06
Garden Valley Ranchettes Homeowners Association (25-Jan-05).....	\$2,716	\$1,326.46
Genesee, City of (Storage tank, 22-Jan-10).....	\$250,000	(\$2,000.00)
Georgetown, City of.....	\$278,500	\$44,142.45
Harbor View Water & Sewer District (Combined Loans).....	\$602,819	\$0.00
Harvest Valley Homeowners Association (22-Mar-13; Pump Replacem	4,500.00	\$4,271.48
Hoyt Bluff Water Association (Rathdrum Prairie Well).....	\$273,029	\$0.00
Jefferson Irrigation Company (well deepening).....	\$110,780	\$0.00
Jefferson Irrigation Company (well deepening).....	\$207,016	\$48,947.11
Jefferson Irrigation Company (9-May-2008 Well Replacement).....	\$81,000	\$57,168.03
Jughandle HOA/Valley County Local Improvement District No. 1 (well p	\$907,552	\$755,084.37
King Hill Irrigation District (24-Sep-10; Pipeline replacement).....	\$300,000	\$123,313.41
Lake Reservoir Company (29-July-11; Payette Lake-Lardo Dam Outle	\$594,000	\$230,458.70
Lakeview Water District.....	\$45,146	\$0.00
Last Chance Canal Company (WRB-497).....	\$500,000	\$133,482.81
Lava Hot Springs, City of.....	\$347,510	\$165,572.78
Lindsay Lateral Association (22-Aug-03).....	\$9,600	\$2,100.26
Lindsay Lateral Association (Engineering Design Project & Pipeline Stu	\$19,700	\$18,053.07
Live-More Lake Community (9-Jun-04).....	\$42,000	\$14,084.43
Lower Payette Ditch Company (2-Apr-04; Diversion dam replacement)	\$875,000	\$374,320.29
Marsh Center Irrigation Company (13-May-05; Hawkins Dam).....	\$236,141	\$148,277.20
Marysville Irrigation Company (18-May-07; Pipeline Project Phase 1)...	\$625,000	\$331,877.80
Marysville Irrigation Company (9-May-08; Pipeline Project Phase 2).....	\$1,100,000	\$551,866.10
McGuire Estates Water Users Association (4-Mar-05).....	\$60,851	\$14,610.10
Meander Point Subdivision Homeowners Association (7-Sep-07; corn	\$330,000	\$58,236.25
Meridian Heights Water & Sewer Association (18-May-07).....	\$350,000	\$248,719.30
Monument Ridge Homeowners Association (20-Mar-09; irrigation syst	\$360,000	\$0.00
Moras Creek Rim Ranches Water District.....	\$221,400	\$51,154.62
New Hope Water Corporation.....	\$151,460	\$59,973.25
North Fremont Canal Systems (25-Jan-13; Marysville Project).....	\$2,500,000	\$1,541,272.69
Powder Valley-Shadowbrook Homeowners Assoc.	\$201,500	\$2,063.33
Point Springs Grazing Association (July 20, 2012; stock water pipeline)	48,280.00	\$47,382.73

PPRT Water System.....	\$70,972	\$0.00	
Preston Riverdale & Mink Creek Canal Co.....	\$400,000	\$0.00	
Preston-Whitney Irrigation Company (29-May-09; Fairview Lateral Pipe	\$800,000	\$159,040.85	
Producers Irrigation Company (17-Mar-06; well replacements).....	\$185,000	\$33,233.26	
Ranch Subdivision Property Owners Assoc.....	\$24,834	\$11,232.12	
Riverside Independent Water District	\$350,000	\$174,787.77	
Skin Creek Water Association.....	\$188,258	\$89,000.48	
Sourdough Point Owners Association (23-Jan-07; water supply & treat	\$750,000	\$60,852.81	
Spirit Bend Water Association.....	\$92,000	\$47,881.62	
Sunset Heights Water District (17-May-13; Exchange water project)...	\$48,000	\$47,555.59	
Thunder Canyon Owners Association (6-Feb-04).....	\$92,416	\$28,957.08	
Twenty-Mile Creek Water Association	\$104,933	\$0.00	
Twin Lakes Canal Company - Winder Lateral Pipeline Project (13-Jul-0	\$500,000	\$350,383.45	
Twin Lakes Canal Company (2-Apr-04).....	\$90,000	\$8,814.82	
Twin Lakes-Rathdrum Fld Cont Dist (24-Oct-02; Twin Lakes Dam).....	\$399,988	\$24,875.90	
Whitney-Nashville Water Company.....	\$225,000	\$53,717.20	
TOTAL LOANS OUTSTANDING.....			\$8,503,007.69
Loans and Other Funding Obligations:			
Senate Bill 1511 - Teton Replacement and Minidoka Enlargement Studies.....	\$678,161.82		
Boise River Storage Feasibility Study.....	\$325,414.93		
Weiser-Galloway Study (28-May-10).....	\$551,620.87		
Canyon Creek Canal Company (14-Mar-08; Pipeline project).....	\$133,599.00		
Canyon County Drainage District No. 2 (28-Nov-12; Drain tile pipeline replacement)	\$0.00		
Chaparral Water Association (21-Jan-11; Well deepening & improvement).....	\$18,465.16		
Clearwater Water District - pilot plant (13-Jul-07).....	\$80,000.00		
Consolidated Irrigation Company (July 20, 2012; pipeline project).....	\$1,500,000.00		
Dover, City of (23-Jul-10; Water Intake project).....	\$194,063.00		
Evergreen Terrace Water Association (water study; 25-Sep-09).....	\$1,316.09		
Foothills Ranch Homeowners Association (7-Oct-11; well rehab).....	\$14,812.24		
Garden Valley Ranchettes Homeowners Association (25-Jan-05).....	\$6,183.69		
Harvest Valley Homeowners Association (22-Mar-13; Pump Replacement).....	\$0.00		
Lake Reservoir Company (29-July-11; Payette Lake-Lardo Dam Outlet Gates).....	\$285,756.89		
Lindsay Lateral Association	\$15,300.00		
North Fremont Canal Systems (25-Jan-13; Marysville Project).....	\$958,727.31		
North Snake & Magic Valley GWD Loan - Mitigation Pipeline.....	\$250,000.00		
North Snake Ground Water District et al (Blue Lakes Pipeline 24-Apr-13).....	\$850,000.00		
Point Springs Grazing Association (July 20, 2012; stock water pipeline).....	\$48,280.00		
Sunset Heights Water District (17-May-13; Exchange water project).....	\$0.00		
TOTAL LOANS AND OTHER FUNDING OBLIGATIONS.....			\$5,913,701.00
Uncommitted Funds.....			\$3,231,546.87
TOTAL.....			\$17,648,255.56

(1) Actual amount needed may vary depending on final determination of water actually purchased and interest income received.

(2) Debt service on the Dworshak Project bonds is paid before the Dworshak monies are deposited into the Revolving Development Account and is therefore not shown on this balance sheet.

Idaho Water Resource Board
Sources and Applications of Funds
as of January 31, 2014
WATER MANAGEMENT ACCOUNT

Original Appropriation (1978).....	\$1,000,000.00
Legislative Audits.....	(\$10,645.45)
IWRB Appraisal Study (Charles Thompson).....	(\$5,000.00)
Transfer funds to General Account 1101(HB 130, 1983).....	(\$500,000.00)
Legislative Appropriation (6/29/1984).....	\$115,800.00
Legislative Appropriation (HB988, 1994).....	\$75,000.00
Turned Back to General Account 6/30/95, (HB988, 1994).....	(\$35,014.25)
Legislative Appropriation (SB1260, 1995, Aquifer Recharge, Caribou Dam).....	\$1,000,000.00
Interest Earned.....	\$120,427.04
Filing Fee Balance.....	\$2,633.31
Water Supply Bank Receipts.....	\$841,803.07
Bond Fees.....	\$277,254.94
Funds from DEQ and IDOC for Glenns Ferry Water Study.....	\$10,000.00
Legislative Appropriation FY01.....	\$200,000.00
Western States Wate Council Annual Dues.....	(\$7,500.00)
Transfer to/from Revolving Development Account.....	(\$317,253.80)
Legislative Appropriation (SB1239, Sugarloaf Aquifer Recharge Project).....	\$60,000.00
Legislative Appropriation (HB 843 Sec 6).....	\$520,000.00
Legislative Appropriation (SB1496, 2006, ESP Aquifer Management Plan).....	\$300,000.00
Legislative Appropriation (HB 320, 2007, ESP Aquifer Management Plan).....	\$849,936.99
TOTAL	\$4,497,441.85
Grants Disbursed:	
Completed Grants.....	\$1,291,110.72
Arco, City of.....	\$7,500.00
Arimo, City of.....	\$7,500.00
Bancroft, City of.....	\$7,000.00
Bloomington, City of.....	\$4,254.86
Boise City Canal Company.....	\$7,500.00
Bonniers Ferry, City of.....	\$7,500.00
Bonneville County Commission.....	\$3,375.00
Bovill, City of.....	\$2,299.42
Buffalo River Water Association.....	\$4,007.25
Butte City, City of.....	\$3,250.00
Cave Bay Community Services.....	\$6,750.00
Central Shoshone County Water District.....	\$7,500.01
Clearwater Regional Water Project Study, City of Orofino et al.....	\$10,000.00
Clearwater Water District.....	\$3,750.00
Cottonwood Point Water and Sewer Association	\$7,500.00
Cottonwood, City of.....	\$5,000.00
Cougar Ridge Water & Sewer.....	\$4,661.34
Curley Creek Water Association.....	\$2,334.15
Downey, City of.....	\$7,500.00
Fairview Water District.....	\$7,500.01
Fish Creek Reservoir Company, Fish Creek Dam Study.....	\$12,500.00
Franklin, City of.....	\$6,750.00
Grangeville, City of.....	\$7,500.00
Greenleaf, City of.....	\$3,000.00
Hansen, City of	\$7,450.00
Hayden Lake Irrigation District.....	\$7,500.00
Hulen Meadows Water Company.....	\$7,500.00
Iona, City of.....	\$1,425.64
Kendrick, City of.....	\$7,500.00
Kooskia, City of.....	\$7,500.00
Lakeview Water District.....	\$2,250.00
Lava Hot Springs, City of.....	\$7,500.00
Lindsay Lateral Association.....	\$7,500.00
Lower Payette Ditch Company.....	\$5,500.01
Maple Grove Estates Homeowners Association.....	\$5,020.88
Meander Point Homeowners Association.....	\$7,500.00
Moreland Water & Sewer District.....	\$7,500.00
New Hope Water Corporation.....	\$2,720.39
North Lake Water & Sewer District.....	\$7,500.00

Northside Estates Homeowners Association.....	\$4,492.00	
North Tomar Butte Water & Sewer District.....	\$3,575.18	
North Water & Sewer District.....	\$3,825.00	
Parkview Water Association.....	\$4,649.98	
Payette, City of.....	\$6,579.00	
Pierce, City of.....	\$7,500.00	
Potlatch, City of.....	\$6,474.00	
Preston Whitney Irrigation Company.....	\$7,500.00	
Preston & Whitney Reservoir Company.....	\$3,606.75	
Preston & Whitney Reservoir Company.....	\$7,000.00	
Roberts, City of.....	\$3,750.00	
Round Valley Water.....	\$3,000.00	
Sagle Valley Water & Sewer District.....	\$2,117.51	
South Hill Water & Sewer District.....	\$3,825.00	
St Charles, City of.....	\$5,632.88	
Swan Valley, City of.....	\$5,000.01	
Twenty-Mile Creek Water Association.....	\$2,467.00	
Valley View Water & Sewer District.....	\$5,000.02	
Victor, City of.....	\$3,750.00	
Weston, City of.....	\$6,601.20	
Winder Lateral Association.....	\$7,000.00	
TOTAL GRANTS DISBURSED.....		(\$1,632,755.21)
IWRB Expenditures		
Lemhi River Water Right Appraisals.....	\$31,000.00	
Expenditures Directed by Legislature		
Obligated 1994 (HB988).....	\$39,985.75	
SB1260, Aquifer Recharge.....	\$947,000.00	
SB1260, Soda (Caribou) Dam Study.....	\$53,000.00	
Sugarloaf Aquifer Recharge Project (SB1239).....	\$65,953.69	
ESPA Settlement Water Rentals (HB 843 2004).....	\$504,000.00	
ESP Aquifer Management Plan (SB1496, 2006).....	\$300,000.00	
ESP Aquifer Management Plan (HB320, 2007).....	\$801,077.75	
TOTAL IWRB AND LEGISLATIVE DIRECTED EXPENDITURES.....		(\$2,732,017.19)
WATER RESOURCE BOARD RECHARGE PROJECTS.....		(\$11,426.88)
CURRENT ACCOUNT BALANCE.....		\$121,242.57
Committed Funds:		
Grants Obligated		
Cottonwood Point Water & Sewer Association.....	\$0.00	
Preston - Whitney Irrigation Company.....	\$7,500.00	
Water District No. 1 (Blackfoot Equalizing Reservoir Automation).....	\$35,000.00	
Legislative Directed Obligations		
Sugarloaf Aquifer Recharge Project (SB1239).....	\$4,046.31	
ESPA Settlement Water Rentals (HB 843, 2004).....	\$16,000.00	
ESPA Management Plan (SB 1496, 2006).....	\$0.00	
ESP Aquifer Management Plan (HB320, 2007).....	\$48,829.24	
TOTAL GRANTS & LOANS OBLIGATED & UNDISBURSED.....		\$111,375.55
Loans Outstanding:	Amount	Principal
	Loaned	Outstanding
Arco, City of.....	\$7,500	\$0.00
Butte City, City of.....	\$7,425	\$201.04
Roberts, City of.....	\$23,750	\$0.00
Victor, City of.....	\$23,750	\$0.00
TOTAL LOANS OUTSTANDING.....		\$201.04
Uncommitted Funds.....		\$9,665.98
CURRENT ACCOUNT BALANCE.....		\$121,242.57

Idaho Water Resource Board
Sources and Applications of Funds
as of January 31, 2014

SECONDARY AQUIFER PLANNING, MANAGEMENT, & IMPLEMENTATION FUND

Legislative Appropriation (HB 291, Sec 2).....	\$2,465,300.00
Legislative Appropriation (SB 1389, Sec 5).....	\$1,232,000.00
Legislative Appropriation (HB270, Sec 3).....	\$716,000.00
Interest Earned State Treasury (Transferred).....	\$44,843.04
Water Users Contributions.....	\$100.00
Conversion project (AWEP) measurement device payments.....	(\$16,455.21)
Contribution from GWD's for 2011 ESPA Managed Recharge	\$71,893.16
Contribution from GWD's for Revenue Bond Prep Expenses.....	\$14,462.50
American Falls Res. Dist#2 - MP31 Recharge Site Engineering.....	(\$1,593.75)
American Falls Res. Dist#2 - MP31 Recharge Site Construction.....	(\$34,435.44)
Bond issuer Fees.....	(\$3,500.00)
Payments for 2012 Recharge.....	(\$260,031.02)
Payments for 2013 Recharge.....	(\$8,133.00)
Payment for Recharge.....	(\$80,000.00)
Payment for High Country RC&D Cloud Seeding.....	(\$20,000.00)
Payment for Idaho Irrigation District.....	(\$13,200.00)

Committed Funds

Measurement devices for AWEP conversion projects.....	\$183,544.79
High Country RC&D Cloud Seeding	\$20,000.00
American Falls Res. Dist#2 - MP31 Recharge Site Engineering	\$4,406.25
American Falls Res. Dist#2 - MP31 Recharge Site Construction	\$564.56
Magic Valley GWD and A&B Irrig. Dist. - Walcott Recharge Engineering	\$85,644.00
Five-Year Managed Recharge Pilot Program	\$1,231,835.98
Contribution from GWD's for 2011 ESPA Managed Recharge	(\$8,106.84)
GWD Bond Preparatory Expenses.....	\$37,500.00
Idaho Irrigation District Recharge Phase 1.....	\$0.00
Fremont-Madison Irrigation District Egin Recharge.....	\$40,000.00
Total Committed Funds.....	\$1,595,388.74

TOTAL UNCOMMITTED FUNDS..... \$2,511,861.54

CURRENT ACCOUNT BALANCE..... \$4,107,250.28

LEGISLATURE OF THE STATE OF IDAHO
Sixty-second Legislature Second Regular Session - 2014

IN THE HOUSE OF REPRESENTATIVES

HOUSE BILL NO. 644

BY APPROPRIATIONS COMMITTEE

AN ACT

APPROPRIATING ADDITIONAL MONEYS TO THE DEPARTMENT OF PARKS AND RECREATION
FOR FISCAL YEAR 2015; AND PROVIDING LEGISLATIVE INTENT.

Be It Enacted by the Legislature of the State of Idaho:

SECTION 1. In addition to the appropriation made in Section 1 of House
Bill No. 617, as enacted by the Second Regular Session of the Sixty-second
Idaho Legislature, there is hereby appropriated to the Department of Parks
and Recreation for the Park Operations Program the following amounts to be
expended according to the designated expense classes from the General Fund
for the period July 1, 2014, through June 30, 2015:

FOR:

Personnel Costs	\$100,000
Operating Expenditures	<u>150,000</u>
TOTAL	\$250,000

SECTION 2. LEGISLATIVE INTENT. It is the intent of the Legislature that
the Idaho Department of Parks and Recreation sell the 17-acre parcel near
the city of Hagerman and all associated water rights, known as the Aqua Life
Aquaculture Facility, to the Idaho Water Resource Board for the July 2011 ap-
praised value of \$1,635,000. The Department of Parks and Recreation shall
deposit the proceeds from the sale into the State Park Land Trust Fund to be
used, subject to legislative appropriation, for development of facilities
in the Thousand Springs State Park Complex.

STATEMENT OF PURPOSE

RS23167

This bill authorizes the Idaho Department of Parks and Recreation to sell the Aqua Life Aquaculture Facility to the Idaho Water Resource Board at the 2011 appraised value. Furthermore, because the 2011 appraised value of \$1,635,000 is \$1.1 million below the current estimated value, the Idaho Department of Parks and Recreation is provided an ongoing appropriation of \$250,000 from the General Fund to recognize the benefits to the park system from the lost opportunity that a public sale could have afforded. The Department of Parks and Recreation shall deposit the proceeds from the sale into the State Park Land Trust Fund to be used, subject to Legislative appropriation, for development of facilities in the Thousand Springs State Park Complex.

It is in the public interest for the state to retain ownership of the Aqua Life Fish Hatchery property and water rights. Retaining ownership allows use of the assets to resolve delivery calls in the Hagerman Valley.

Background: SCR 116 of 2001 authorized the Department of Parks and Recreation to enter into an agreement with the Idaho State Building authority to finance the acquisition of the McFadden Ranch and Vardis Fisher properties around Billingsley Creek near Hagerman for a state park. SCR 123 of 2012 recognized the limited potential for recreational development of the Vardis Fisher property and authorized the Department of Parks and Recreation to work with the Building Authority to refinance the Billingsley Creek properties and to move the bond payment to other properties. In 2011, the Idaho Department of Lands (IDL) was considering a land exchange and commissioned an appraisal of the 107.07 acre Vardis Fisher component of the Billingsley Creek properties including the Aqua Life Facility at E. 2700 S. in Gooding County. The result of that July 5, 2011 appraisal, done by Integra Realty Resources of Boise, was \$1,635,000 for the land, water rights, and improvements for the 17 acre aquaculture facility and \$1,040,000 for the remaining 90.07 acres of excess land.

FISCAL NOTE

Appropriates an additional \$250,000 from the General Fund to the Department of Parks and Recreation for fiscal year 2015 ongoing. It also authorizes the Department to sell the Aqua Life Aquaculture Facility to the Idaho Water Resource Board for \$1,635,000; therefore, this legislation also authorizes the Idaho Water Resource Board to purchase the facility and its water rights. Moneys in the Water Resource Board's Revolving Development Fund are continuously appropriated for the purposes provided by law.

Contact:

Ray Houston
Budget and Policy Analysis
(208) 334-4741



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HOUSE BILL 644

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[Bill Text](#)
[Statement of Purpose / Fiscal Note](#)

H0644 by APPROPRIATIONS COMMITTEE

APPROPRIATIONS - PARKS AND RECREATION DEPT - Appropriates an additional \$250,000 to the Department of Parks and Recreation for fiscal year 2015; and authorizes the sale of park property to the Water Resource Board at an appraised value.

03/19 Introduced, read first time, referred to JRA for Printing

Reported Printed; Filed for Second Reading

Rules Suspended: Ayes 67 Nays 0 Abs/Excd 3, read three times - **PASSED - 67-0-3**

AYES -- Agidius, Anderson(01), Anderson(31), Anderst, Andrus, Barbieri, Barrett, Bateman, Batt, Bell, Bolz, Boyle, Burgoyne, Chew, Clow, Collins, Crane, Dayley, DeMordaunt, Denney, Erpelding, Eskridge, Gannon, Gestrin, Gibbs, Hancey, Harris, Hartgen, Henderson, Hixon, Holtzclaw, Horman, Kauffman, King, Loertscher, Luker, Malek, McDonald, McMillan, Mendive, Miller, Monks, Morse, Moyle, Nielsen, Packer, Palmer, Pence, Perry, Raybould, Ringo, Romrell, Rubel, Rusche, Shepherd, Sims, Smith, Stevenson, Trujillo, VanOrden, Vander Woude, Wills, Wood(27), Wood(35), Woodings, Youngblood, Mr. Speaker

NAYS -- None

Absent -- Kloc, Meline, Thompson

Floor Sponsor - Gibbs

Title apvd - to Senate

03/20 Received from the House passed; filed for first reading

Introduced, read first time; referred to: Finance

Reported out of Committee with Do Pass Recommendation; Filed for second reading

Rules Suspended (2/3 Vote - Read in full as required) - **PASSED - 35-0-0**

AYES -- Bair, Bayer, Bock, Brackett, Buckner-Webb, Cameron, Davis, Fulcher, Goedde, Guthrie, Hagedorn, Heider, Hill, Johnson, Keough, Lacey, Lakey, Lodge, Martin, McKenzie, Mortimer, Nonini, Nuxoll, Patrick, Pearce, Rice, Schmidt, Siddoway, Stennett, Thayne, Tippetts, Vick, Ward-Engelking, Werk, Winder

NAYS -- None

Absent and excused -- None

Floor Sponsor - Lacey

Title apvd - to House

Returned from Senate Passed; to JRA for Enrolling

Reported Enrolled; Signed by Speaker; Transmitted to Senate

Received from the House enrolled/signed by Speaker

Signed by President; returned to House

Returned Signed by the President; Ordered Transmitted to Governor

Delivered to Governor at 2:10 p.m. on March 24, 2014

03/26 Reported Signed by Governor on March 26, 2014

Session Law Chapter 224

Effective: 07/01/2014

Legislative Services Office • P.O. Box 83720 • Boise, ID • 83720-0054

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MATERIALS FOR THIS SECTION WILL BE PROVIDED AT THE MEETING.



IDAHO WATER RESOURCE BOARD

C.L. "Butch" Otter
Governor

Roger W. Chase
Chairman
Pocatello
District 4

Bob Graham
Secretary
Bonners Ferry
District 1

**Charles "Chuck"
Cuddy**
Orofino
At Large

Vince Alberdi
Kimberly
At Large

Jeff Raybould
St. Anthony
At Large

Peter Van Der Meulen
Hailey
At Large

Albert Barker
Boise
District 2

John "Bert" Stevenson
Rupert
District 3

TO: IDAHO WATER RESOURCE BOARD

FROM: Neal Farmer

DATE: May 21, 2014

SUBJECT: Eastern Snake Plain Aquifer Recharge Update

MANAGED RECHARGE OPERATIONS FOR SPRING 2014

Early spring 2014 recharge operations ended on Monday March 24th when the canals at the Milner Dam turned on for normal deliveries. Additional potential for recharge may occur in late May or June if the Bureau of Reclamation spills water for flood control. Current totals for recharge are shown in Table 1. To date for year 2014 the totals are 10,435 ac-ft and \$31,304.00.

The Lower Snake River Aquifer Recharge District (LSRARD) is agreeable to assist the Board with recharge site investigations in the lower valley and a draft cooperative agreement is circulating for review. LSRARD has already provided resources to assist the Board with testing some natural depressions for leakage rate analysis (described later in memo).

Potential Near Future Recharge

The Bureau of Reclamation estimates that American Falls Reservoir will fill and spill by late May, and that flood control releases past Milner may occur. When this occurs we plan to undertake additional recharge at off canal sites subject to available delivery capacity.

ADDITIONAL RECHARGE CAPACITY DEVELOPMENT

Canal System Modifications for Winter Recharge

The Twin Falls Canal Company, North Side Canal Company, American Falls Reservoir District 2, and Southwest Irrigation District have all been approached to discuss engineering evaluations to determine modifications needed for winter time recharge operations. Discussions are in progress.

Walcott Recharge Site

Drilling re-started on May 1 with extending the 12 inch diameter casing down to about 340 foot depth to seal off a sand layer in the bottom of the well from about 315 to 330 feet. Then drilling will continue on down after the casing is set to a possible depth of approximately 500 feet. An injection test may be initiated after drilling has stopped to determine the capacity of the test well.

Milner Pool

On the ground field scoping has been accomplished for several sites along the Milner Reservoir shoreline area for test well site conditions with assistance from LSRARD and NSCC. Four test well sites look promising from near the Milner Dam upstream to Southwest Irrigation District pump plant. IDWR staff met with NSCC's Board to discuss possible test wells on their property and NSCC has hired a Title company to provide more information about property ownership, right of way and boundaries. Private landowners have been contacted and discussions are underway.

Richfield Aquifer Recharge Site – Little Wood River

Through a cooperative agreement, IDWR and LSRARD performed leakage tests in some natural depressions on State land south of the City of Richfield on March 27, 2014. LSRARD staff secured permission from State lands, permission from the Big Wood Canal Company, permission from the water master to pump water out of the Dietrich canal into two large natural depressions (Figure 1). LSRARD performed two 24 hour leakage tests on two separate rock depressions. The first test location reached a steady state inflow of about 5 cfs. The second test location reached a steady state of about 3.5 cfs. We are considering drilling test wells to determine if there is additional capacity at this site for possible direct injection methods. LSRARD is assisting with these efforts.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1																		
2	Year	ASCC	United	FMID	GFCC	SFAC	IID	SRVID	NSCC	AFRD2	SWID	BWCC	Total	above AF	below AF	% above AF	% below AF	
3	2008	0		4,860	0		0	0	0	0	0	0	4,860	4,860	0	100	0	
4	2009	18,563		37,317	20,944		1,004	0	6,519	38,698	1,491	0	124,536	77,828	46,708	62	38	
5	2010	5,322		49,466	0		0	1,125	0	2,002	3,436	157	61,508	55,913	5,595	91	9	
6	2011	15,213	2,740	18,286		4,191			34,942	37,752	1,895	3,025	118,044	40,430	77,614	34	66	
7	2012	7,824		23,903	18,961	19,459			36,050	6,837	341	11,443	124,818	70,147	54,671	56	44	
8	2013	0	0	0	0	0	0	0	0	2711	1156	0	3,867	0	3,867	0	100	
9	2014								3564	4966.7	1904	0	10,435	0	10,435	0	100	
10	Total (ac-ft)	46,922	2,740	133,832	39,905	23,650	1,004	1,125	81,075	92,967	10,223	14,625	448,067	249,177	198,890	56	44	
11	% of total	10.5	0.6	29.9	8.9	5.3	0.2	0.3	18.1	20.7	2.3	3.3						
12	all figures except percentages in acre-feet																	
13																		
14																		
15	Year	ASCC	United	FMID	GFCC	SFAC	IID	SRVID	NSCC	AFRD2	SWID	BWCC	Total	above AF	below AF	% above AF	% below AF	
16	2008	0		14,580	0		0	0	0	0	0	0	14,580	14,580	0	100	0	
17	2009	40,438		30,878	62,966		3,012	0	19,557	116,094	4,473	0	277,418	137,294	140,124	49	51	
18	2010	15,967		148,399	0		0	3,375	0	6,006	10,308	460	184,515	167,741	16,774	91	9	
19	2011	45,000	5,000	46,535		12,573	0	0	45,000	113,256	5,685	9,075	282,124	109,108	173,016	39	61	
20	2012	23,472	0	50,000	36,500	30,200	0	0	99,268	20,511	1,023	34,329	295,303	140,172	155,131	47	53	
21	2013	0	0	0	0	0	0	0	0	8133	3468	0	11,601	0	11,601	0	100	
22	2014								10692	14900.1	5712	0	31,304	0	31,304	0	100	
23	Total \$ =	124,877	5,000	290,392	99,466	42,773	3,012	3,375	174,517	278,900	30,669	43,864	1,096,846	568,895	527,950	52	48	
24	Percent of Total =	27.9	1.1	64.8	22.2	9.5	0.7	0.8	38.9	62.2	6.8	9.8						
25	all figures except percentages in dollars																	
26																		
27	ASCC		Aberdeen-Springfield Canal Co.					GFCC		Great Feeder Canals			SWID		Southwest Irrigation dist.			
28	AFRD2		American Falls Reservoir Dist. No. 2 (Milner-Gooding Canal)					IID		Idaho Irrigation Dist.			SFAC		South Fork area canals (Enterprise, Farmer's Friend, Progre			
29	BWCC		Big Wood Canal Co. (non -Snake)					NSCC		North Side Canal Co.								
30	FMID		Fremont-Madison Irrigation Dist.					SRVID		Snake River Valley Irrigation Dist.								
31																		

Table 1. Recharge accounting table for years 2008 – spring 2014 to date.

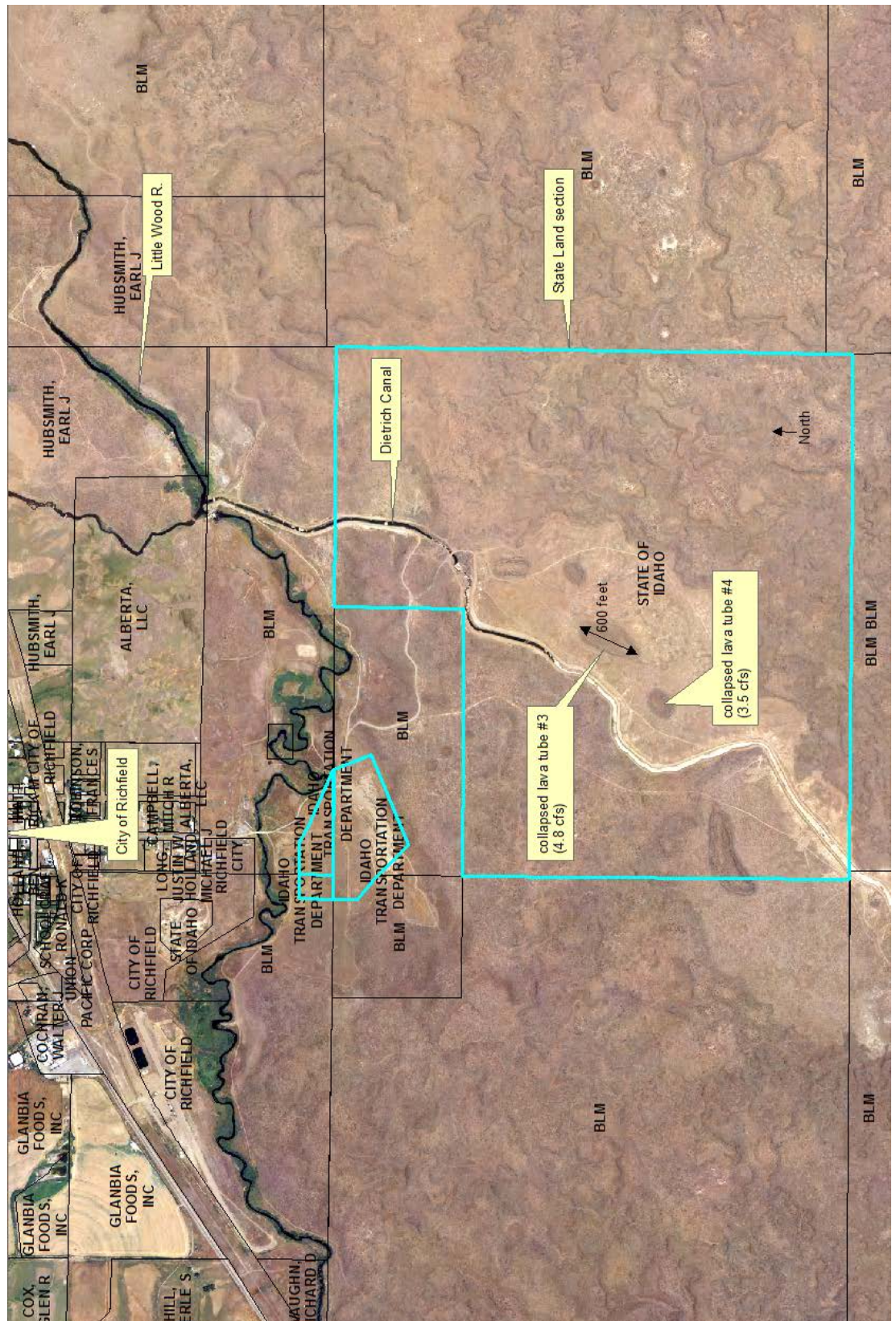


Figure 1. Map of Richfield recharge site showing leakage test locations with pit #3 having 4.8 cfs leakage rate and pit #4 having about 3.5 cfs leakage rate. State land outline in light blue.



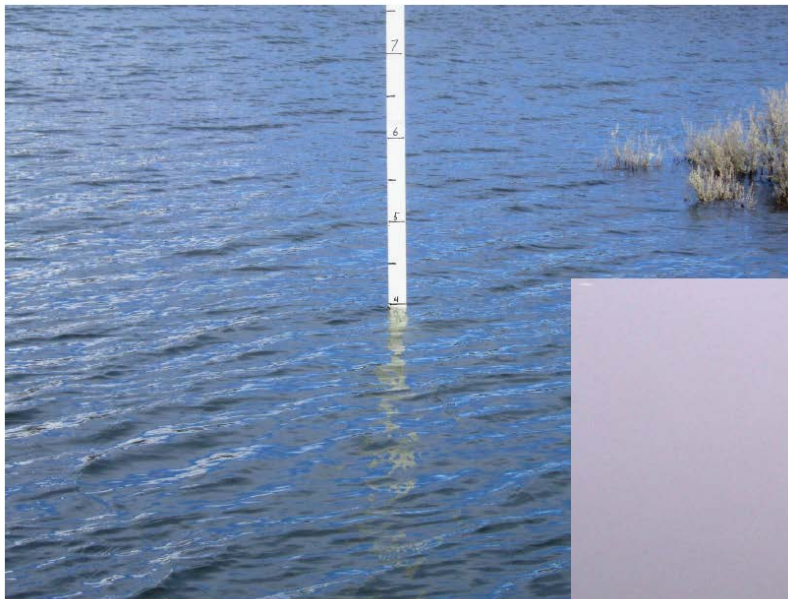
Richfield test pump equipment being set up.



Discharge into Richfield site test basin at 4.8 cfs.



Basin #3 at full pool and steady state leakage rate of 4.8 cfs.



Staff at first test pit. Equilibrated at 8.2 feet.



Basin #3 staff gauge.

Memorandum

To: Idaho Water Resource Board
From: Cynthia Bridge Clark
Date: May 2, 2014
Re: Status of Storage Water Studies



The following is a status report on the surface water storage studies initiated by the Idaho Water Resource Board (IWRB). This memorandum describes progress since the last IWRB meeting in March 2014.

Weiser-Galloway Project

Snake River Operational Analysis Project (Operational Analysis):

- The US Army Corps of Engineers (Corps) continues to evaluate a series of operating scenarios using the reservoir model developed for the Galloway project. Idaho Power Company (IPC) and IDWR are evaluating impacts to the Snake River System using the Snake River Planning Model. The operating scenarios were developed with consultation from IDWR, IPC and the US Bureau of Reclamation (BOR) in order to address specific areas of interest and methodology questions. IPC also agreed to evaluate impacts to the Hells Canyon Complex and mid-Snake River hydropower projects based results of the modeling efforts.
- The Corps is also completing hydraulic, economic and cost analyses for the project, and is performing a temperature analysis using a model developed for the project to assess potential changes in water temperature in the Weiser River between the dam site and the Snake River. The Corps is reviewing the model assumptions, methodology and results with IPC.
- An additional Planning Assistance to States (PAS) project was approved by the Corps to evaluate potential integration of hydropower from the Galloway project with the Northwest power grid. This analysis will build on the results of the ongoing Operations Analysis.
- Results of the hydropower integration study will be incorporated into the ongoing Operational Analysis. Consequently, completion of the final report will be delayed until the end of 2014. However, preliminary results of the Operations Analysis will be presented to the IWRB for review and comment prior to completion of the study. A Storage Projects Committee meeting to present preliminary results is tentatively being scheduled for August 2014.

Additional Activities:

- There has been significant interest in the project by the media and several inquiries from the general public for project details. In addition to responding to general inquires, staff, accompanied by Chairman Chase and IWRB member Al Barker, provided an update to city and county officials and taxing districts in the Weiser and Washington County area on May 1, 2014.
- **REQUIRED ACTIONS:** No action is required by the IWRB at this time.

Boise River Feasibility Study

- An Environmental Impact Statement (EIS) will be completed through the feasibility study process. Public scoping meetings are scheduled for May 6 through 8 in Garden City, Boise, Caldwell and Idaho City.
- Staff will provide an update on the potential study alternatives and summarize public feedback following the public scoping meetings.

REQUIRED ACTIONS: No official action is required by the IWRB at this time.

Henrys Fork Basin Study

- The US Bureau of Reclamation (Reclamation) issued the Final Henrys Fork Basin Study (Basin Study) Final Report on April 25, 2014.
- IDWR staff is compiling a supplemental report to summarize the findings of the Basin Study and generate recommendations to move forward with potential projects. Staff is coordinating with Reclamation and will solicit feedback from stakeholders in the development of those recommendations. Rick Gold, former Upper Colorado Regional Director for Reclamation, is also coordinating with Reclamation and the IWRB to evaluate options for implementation of an enlargement of the Island Park reservoir. This information will also be considered in the development of the recommendations.
- Reclamation will report the final results to the Henrys Fork Watershed Council on May 14 and IDWR staff will discuss the supplemental report and development of recommendations for the implementation of projects identified in the Basin Study.

REQUESTED ACTIONS: No action is required by the IWRB at this time. However, staff will request feedback from the IWRB on the involvement of stakeholders in the development of recommendations and implementation of potential projects.

MATERIALS FOR THIS SECTION WILL BE PROVIDED AT THE MEETING.