



# AGENDA

## IDAHO WATER RESOURCE BOARD

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### Work Session for Board Meeting No. 7-19

July 25, 2019

8:00 a.m.

SpringHill Suites

Conference Room

1177 S. Yellowstone Hwy

REXBURG

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**Brad Little**  
Governor

**Roger W. Chase**  
Chairman  
Pocatello  
District 4

**Jeff Raybould**  
Vice-Chairman  
St. Anthony  
At Large

**Vince Alberdi**  
Secretary  
Kimberly  
At Large

**Peter Van Der Meulen**  
Hailey  
At Large

**Albert Barker**  
Boise  
District 2

**John "Bert" Stevenson**  
Rupert  
District 3

**Dale Van Stone**  
Hope  
District 1

**Jo Ann Cole-Hansen**  
Lewiston  
At Large

1. Roll Call

2. Executive Session – Board will meet pursuant to Idaho Code §74-206(1) subsection (f), for the purpose of communicating 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. Topic: Northern Idaho Adjudication. Lemhi and Wood River Water Right Applications. Executive Session is closed to the public.

*Following adjournment of Executive Session – meeting reopens to the public.*

3. Committee of Nine Tribal Rights Subcommittee Presentation

4. Boise River Feasibility Study Update

5. Cooperative Cloud Seeding Program

6. Flood Management Grants

7. Milner Irrigation District Loan Request

8. Priest Lake Water Management Project

9. Bear Lake Update

10. Presentation on the North Fremont Canal System Project

*The Board will break for lunch at approximately 11:45 a.m.*

*12:30 p.m. – 4:00 p.m.: The Board will depart for a Field Trip North Fremont Canal System Project.*

*Transportation will be provided for Board Members, IDWR Staff, and invited guests.*

#### 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 [nikki.regent@idwr.idaho.gov](mailto:nikki.regent@idwr.idaho.gov) or by phone at (208) 287-4800.

# Memorandum



To: Idaho Water Resource Board  
From: Brian Patton  
Date: July 16, 2019  
Re: Committee of Nine Tribal Rights Subcommittee Presentation

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Alan Kelsch, Jerry Rigby, and John Simpson will present on behalf of the Committee of Nine Tribal Rights Subcommittee. They will be addressing the 1990 Fort Hall Settlement Agreement and the "equitable adjustment" issues under the agreement including:

- A summary of the equitable adjustment provisions in Basin 27 (Blackfoot River) which has been resolved by WD01 and the Committee of Nine, and
- A summary of the Bannock Creek (Arbon Valley) equitable adjustment process which is ongoing and not yet resolved.

The IWRB was a signatory to the 1990 Fort Hall Settlement Agreement that resolved the Fort Hall tribal water right claims in the Snake River Basin Adjudication.



IN REPLY REFER TO:

# United States Department of the Interior

## BUREAU OF RECLAMATION

Pacific Northwest Region  
Snake River Area Office  
230 Collins Road  
Boise, ID 83702-4520

SRA-1304  
2.2.4.21

July 15, 2019

Mr. Roger Chase  
Chairman  
Idaho Water Resource Board  
322 East Front Street  
Boise, ID 83702

Mr. Roland Springer  
Area Manager  
Snake River Area Office  
230 Collins Road  
Boise, ID 83702

Subject: Boise River Basin Feasibility Study Status Update, Boise Project, Idaho

Dear Messrs. Chase and Springer:

This status update is being sent in preparation for the Idaho Water Resource Board (IWRB) meeting on July 25, 2019.

The IWRB and the Bureau of Reclamation have partnered to complete a feasibility study of new surface water storage options on the Boise River (Study). The Study includes an evaluation of small raises of the three large dams on the Boise River system: Anderson Ranch, Arrowrock, and Lucky Peak Dams, and is now focused on Anderson Ranch Dam.

In June of 2019, Reclamation secured \$1.6 million in appropriations for the Study after delays in securing FY19 Water Infrastructure Improvements for the Nation (WIIN) Act funds. Reclamation continues to pursue additional Federal funding under the WIIN Act and through standard budget processes.

### **Current Status**

- IWRB has issued \$2.5M to Reclamation. Reclamation issued an invoice for the remaining \$500k under the current MOA on July 8, 2019. Reclamation will discuss project costs at the July IWRB meeting.
- Recent project activities include:
  - April 30, 2019 – Land, structure, infrastructure, and real estate impact assessment (Rim Analysis) completed for Anderson Ranch Reservoir.

- June 7, 2019 – Water right permit application filed by IWRB for the potential additional storage (Water Right No. 63-34753).
- June 19, 2019 – Feasibility-level design and construction cost estimates completed for the Anderson Ranch Dam raise by Reclamation’s Technical Service Center.
- June 20, 2019 – National Environmental Policy Act (NEPA) and Endangered Species Act (ESA) task order awarded to initiate Consultant work on environmental compliance.
- June 28, 2019 – Land, structure, infrastructure, and real estate impact assessment (Rim Analysis) completed for Lucky Peak and Arrowrock Reservoirs.
- July 1, 2019 – Feasibility Study task order statement of work submitted to Consultant for scoping and pricing, estimated award date of August 16, 2019. The Feasibility Study task order is anticipated to be the last task order for this Study.
- Ongoing project activities include:
  - Consultant and Reclamation to conduct environmental compliance analyses and consultations in accordance with Secretarial Order 3355.
  - Consultant and Reclamation to complete remaining design and cost estimating, benefits and cost analyses, and feasibility report.
  - Reclamation is finalizing public engagement planning to initiate the formal NEPA process.
    - Notice of Intent publication date: August 9, 2019
    - Public scoping open house (tentative):
      - August 27, 2019, in Pine, Idaho
      - August 28, 2019, in Mountain Home, Idaho
      - August 29, 2019, in Boise, Idaho
  - Reclamation and IWRB are reviewing authorities and discussing the approach for identifying potential spaceholders and contracting for space.

### **Key Milestones**

Nov 2017 - Jan 2019	Reclamation completed initial screening of the three potential dam raise alternatives and developed the Project Management Plan.
July 27, 2018	IWRB passed a resolution supporting the narrowed focus of the Study to a raise at Anderson Ranch Dam.
August 28, 2018	Reclamation and IWRB hosted a Legislative Infrastructure Tour to discuss large water infrastructure projects in Idaho with representatives from Idaho’s Congressional delegation.
November 8, 2018	Reclamation and IWRB hosted an informational public open house on the Study in Boise, Idaho.
December 3-7, 2018	Reclamation conducted a Value Planning Study with a final Accountability Report received in February 2019.

December 25, 2018	Reclamation awarded an Indefinite Delivery/Indefinite Quality contract for architect and engineering services to Sundance-EA Joint Venture (Consultant) to complete the Study and environmental compliance activities.
April 30, 2019	Land, structure, infrastructure, and real estate impact assessment (Rim Analysis) completed for Anderson Ranch Reservoir.
June 7, 2019	IWRB files a water right permit application for the potential additional storage (Water Right No. 63-34753).
June 19, 2019	Feasibility-level design and cost estimates completed for Anderson Ranch Dam raise by Reclamation's Technical Service Center.
August 9, 2019	Publishing of Notice of Intent for an Environmental Impact Statement in the Federal Register.
August 27-29, 2019	Public scoping open houses in Pine, Mountain Home, and Boise, Idaho.
November 2019	Reclamation design, estimate, and construction review of the alternatives.
January 2020	Draft Feasibility Report and Environmental Impact Statement release.
July 2020	Final Feasibility Report and Environment Impact Statement release.
July 2020 - Aug 2020	Department of the Interior approval of the recommended plan.

Thank you for this opportunity to provide an update on the Boise River Basin Feasibility Study project. If you have any questions, please contact me at 208-383-2222 or via email at [msloan@usbr.gov](mailto:msloan@usbr.gov).

Sincerely,

Megan Sloan  
Project Manager

# Memorandum



To: Idaho Water Resource Board (IWRB)  
From: Neeley Miller, Planning & Projects Bureau  
Date: July 17, 2019  
Re: Priest Lake Water Management Project Update

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**ACTION: No action needed at this time**

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## Background

- As a result of limited water supply and drought conditions in northern Idaho in 2015 and 2016 it was difficult to maintain required pool levels and downstream flow in the Priest River during the recreational season.
- Priest Lake Water Management Study (Phase 1) was completed in February 2018. The study included the following recommendations:
  - Temporarily raising the surface level of Priest Lake 3 to 6 inches during the recreational season of dry years and integrating real-time streamflow data to allow more flexibility
  - Outlet structure improvements to the scour apron, modifying and strengthening gates, and electrical gate operation
  - Replace the current existing porous breakwater with an impervious sediment retention feature and dredging a portion of the Thorofare channel
- The Phase 1 estimated cost to implement recommendations is approximately \$5 million (\$2.4 million for outlet structure improvements, and \$2.4 - \$2.6 million for Thorofare improvements).
- On January 26, 2018 the IWRB passed a resolution asking the Idaho Legislature to repurpose the remaining balance of \$2,419,600 in a 2005 CREP appropriation that had not been utilized and direct it towards the Priest Lake Water Management Project. In that resolution, the IWRB also indicated that it expects local contributions of at least \$200,000 for the project.
- House Bill 677 passed and approved by the 2018 Legislature included 1) a \$2.4 million transfer from the General Fund to the Revolving Development Account, and 2) \$2,419,600 of funding in the Revolving Development redirected from the Conservation Reserve Enhancement Program (CREP) to be used for the Priest Lake Water Management Project. On March 27, 2018 Governor Otter signed the budget bill (FY 2019) which includes the funds for the Priest Lake Project.
- On May 18, 2018 the Board adopted a resolution authorizing \$600,000 for Engineering and Design work associated with Phase 2 of the Priest Lake Water Management Project.

- Funding Status: \$2.4 million + \$2.4196 + \$200K local contribution -\$600K for preliminary engineering design & permitting = \$4,419,600 remaining for Final Engineering Design, Bidding Solicitation, Construction and Construction Management.
- In July 2018 Mott MacDonald submitted to IWRB staff the final Priest Lake Water Management Project Phase 2 – Preliminary Engineering Design & Permitting Scope of Work.
- July 2018 – executed contract with Mott MacDonald for Phase 2: Preliminary Engineering Design & Regulatory Permitting

## Phase 2 Schedule

### Task 1 Data Collection – July to August, 2018

- Kickoff Meeting
- Existing & New Data Collection.
- Site Assessments – Dam, Wetlands, Erosion areas on lake, Thorofare.
- Design Recommendations – Refinement of recommendations from last phase and any new information gathered that could affect the scope of preliminary design.
- Basis of Design – Refinement and update from last phase.
- Steering Committee Meeting #1 – August

### Task 2 Preliminary Engineering Design – September to May, 2019

- Regulator Agency & Stakeholder Engagement.
- Steering Committee Meeting #2 – September 2018.
- Public Meeting/Open House – September 27 2018.
- Permitting Level Plans – Draft December; Final March/April 2019.
- Updated Construction Cost Estimates – Draft December; Final April 2019.
- Dam Improvements & Dam Safety Report Submittal. Includes discipline reports (Geotechnical, Structural, Hydraulic, etc.) – Draft December; Final late March 2019.

### Task 3 Regulatory Permitting – August 2018 to October 2019

- Consultation with Agencies regarding proposed concepts – September 2018.
- Permit Application Documents – Final April - June 2019.
- Permit Application Submission – Breakwater permit documents submitted April 2019; outlet structure permit documents in June 2019.

### Task 4 Public/Stakeholder Involvement – Ongoing

- Steering Committee Meeting #1 – August 2018
- Steering Committee Meeting #2 – September 2018 (telecon).
- Public Open House –Thursday September 27, 2018 (in person, Priest Lake).
- Steering Committee Meeting #3 – October 2018.
- Steering Committee Meeting #4 – November 2018.
- Steering Committee Meeting #5 – August 2019 (telecom).
- IDL Hearing on breakwater – August 13, 2019 in Priest River (staff will attend in-person)

## **Phase 3 Schedule**

**Final Engineering Design – TBD Based on status off regulatory permitting process. Likely starting late 2019.**

Final engineering and design and services during bidding and construction are not included in the Phase 2 scope of work, but will likely include the following elements:

- Sealed plans, specifications, cost estimates.
- Final computation package for dam safety review.

### **Bidding and Construction**

- Bidding is anticipated in 2020, with construction anticipated in the fall/winter of 2020/2021.



# Memorandum

To: Idaho Water Resource Board (IWRB)

From: Brian Patton

Date: July 18, 2019

Re: Bear Lake Update

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Jeff Raybould and Roger Chase will provide an update on Bear Lake with the Board.



## IDAHO WATER RESOURCE BOARD | FACT SHEET

### North Fremont Canal System

#### Marysville Pressurized Pipeline Irrigation Project

**Background:** The North Fremont Canal System Marysville Pressurized Pipeline Irrigation Project (Project) is located near the communities of Ashton and Marysville in eastern Idaho. The Marysville Irrigation Company, Farmers Own Ditch Company, and the Yellowstone Power and Irrigation Company, deliver water to irrigate approximately 24,000 acres of agricultural land in the northern portion of Fremont County. The Company delivers both natural flow from Falls River and storage water from Island Park Reservoir. In 2016, the Marysville Irrigation Company, Farmers Own Ditch Company, and the Yellowstone Power and Irrigation Company merged to form the North Fremont Canal System.

**Project Description:** The Project is comprised of 5 phases of design and construction. The goal of the Project is to convert the current open canal system to a gravity-pressurized system. Upon completion of all phases of the project, approximately 100 miles of open canal will have been removed and an estimated 75 miles of gravity-pressurized pipeline will have been installed for the Project. The conversion of the open canal system to a pressurized piping system will significantly reduce the number of pumps required for operation of the irrigation system. It is estimated that pumping requirements for the system will be reduced by an estimated 5,250 hp for 119 landowners.

**Project Summaries:** The funding for each phase of the project was provided through the IWRB loan program, grants through the NRCS, and NFCS. The engineering and design, which was performed by the NRCS, is estimated to be 15% of the total project costs for each phase.

Phase 1 – Turkey Track project, which delivers water to irrigate approximately 2,500 acres, was completed and operational in 2008. The IWRB approved a \$625,000 loan for the project.

Phase 2 – North-North Lateral project, which delivers water to irrigate approximately 4,400 acres, was completed and operational in 2009. The IWRB approved a \$1,100,000 loan for the project.

The total project costs for Phase 1 and Phase 2 was \$5,097,450, of which \$3,372,450 was funded through two separate NRCS grants.



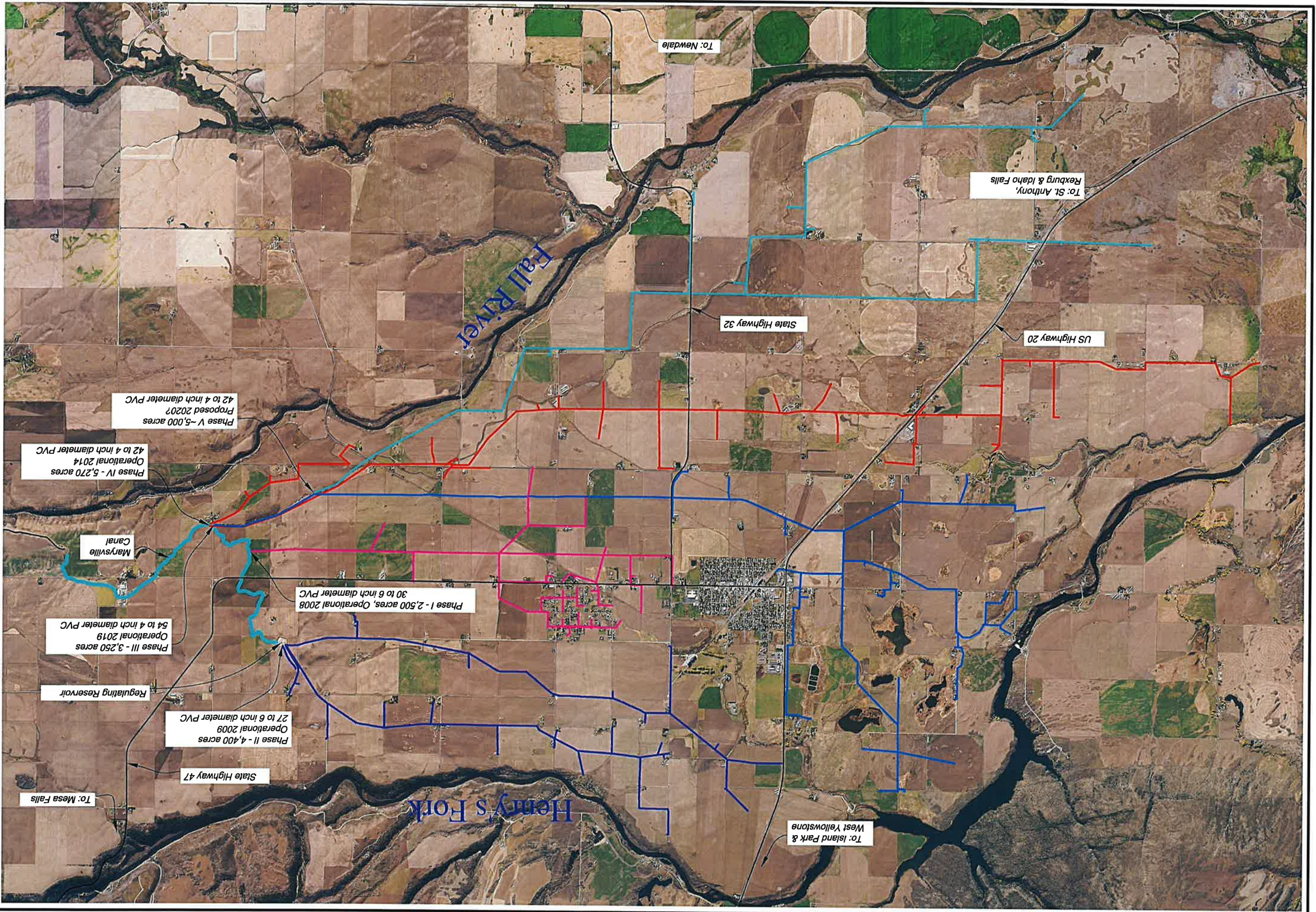
## IDAHO WATER RESOURCE BOARD | FACT SHEET

Phase 4 – The Phase 4 pipeline project, which delivers water to irrigate approximately 5,270 acres, was completed in 2014. The IWRB approved a \$2,500,000 loan for the project. The total project costs was approximately \$9,500,000. NRCS contributed approximately \$6,600,000 to the project. The remaining project costs, approximately \$400,000, were paid by NFCS shareholders.

Phase 3 – The Phase 3 pipeline project, which is currently under construction, will convert approximately 17.8 miles of open canals to 19 miles of gravity pressurized pipeline. The project includes the construction of a new diversion structure, installation of approximately 100,500 lineal feet of pipeline, and the removal of 40 pumps from the system. The project is scheduled to be completed in December, 2019. Currently, the project is partially operational with more than half of the area being irrigated by pressurized water. Approximately 54,500 lineal feet of pipe was installed by May 17, 2019, of which 4,800 lineal feet serves both Phase 3 and the future Phase 5 project. The installation of the remaining pipe will continue through the summer as fields become accessible, and be completed by the end of year. The IWRB approved a \$4,300,000 loan for the project in October, 2018. The total project costs are \$11,201,201. The balance of the project costs, approximately \$6,900,000, is being funded through an NRCS grant and NFCS shareholders.

Phase 5 - The future Phase 5 pipeline project will include the installation of approximately 18-miles of gravity-pressurized irrigation pipeline. The pipe quantities may change upon completion of the final engineering design. The total estimated cost for Phase 5 is \$11,500,000. NFCS hopes to secure approximately \$7,000,000 in financial assistance from NRCS. It is NFCS's intention to seek an additional IWRB loan to fund the balance of the project costs, or approximately \$4,500,000. Upon securing funding for the project, it is anticipated that construction will commence in the fall of 2020.







United States  
Department of  
Agriculture

Natural Resources  
Conservation Service

North Fremont Canal Systems All Phases  
Pipeline Plan View

YELLOWSTONE SCD      FREMONT COUNTY, IDAHO

Designed #  
#

Drawn #  
#

Checked #  
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Approved #  
#

Date #

File No. All Phases Plan.dwg

Drawing No. 1

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Sheet 1 of 1