

October 5th, 2023

WWDC REGULAR MEETING

E-NOTEBOOK



Wyoming Water Development Office

6920 Yellowtail Road | Cheyenne, WY 82009



WYOMING WATER DEVELOPMENT COMMISSION

WWDC MEETING
WYOMING WATER DEVELOPMENT OFFICE
6920 Yellowtail Road | Cheyenne, WY
October 5, 2023 | 8:30 a.m.

To view the livestream, sign up for public comment, or to access the most recent Agenda and E-Notebook, please visit the Water Development Office's website: <https://wwdc.state.wy.us>.

MEETING AGENDA: Thursday, October 5, 2023 | 8:30 a.m.

**Action Item*

1. **Call to Order**
2. **Pledge of Allegiance**
3. **Recognition of members present to establish a quorum**

WWDC* 4. **Approval of Minutes (A)

- August 15, 2023: WWDC Workshop
- August 17, 2023: WWDC/SWC Joint Meeting

WWDC* 5. **2024 Planning Projects Consultant Selection Approval (B)

Level I Projects – New Development

- Alpine Water Master Plan
- Bairoil Water Master Plan
- Chugwater Water Master Plan
- Douglas Water Master Plan
- GR/RS/SC Regional Water Master Plan
- Green River/Little Snake River Basins Conveyance Loss Study
- Hudson Water Master Plan
- Salt River Watershed Study
- Shoshone Municipal Pipeline Regional Water Master Plan

Level II Projects – New Development

- Burns Groundwater Supply
- Cody Areas Evaluation 2024
- Greybull Water System Improvements
- Hot Springs County Supply Evaluation

Level I Projects – Rehabilitation

- Big Horn Canal ID Master Plan
- Elk Canal Master Plan
- Horse Creek Conservation District Master Plan
- Midvale ID Master Plan
- Powder River ID Master Plan
- Strawberry Canal Master Plan

Updated: September 21, 2023

- *WWDC* **6. Planning Closeout Memos (C)**
- Dowlin Diversion Rehabilitation, Level II Study
 - Lander Water Master Plan, Level I Study
 - Little Snake River Valley Water Supply, Phase II, Level II Study
 - Rock Creek & Trail Ridge Creek Instream Flows 2020, Level I Study
 - Upton Water Master Plan, Level I Study
 - West Afton/Nield String Master Plan, Level I Study
 - Wheatland Water Master Plan, Level I Study
- *WWDC* **7. Groundwater Exploration Grant Contract Amendments (D) – Time only**
- Happy Valley Water and Improvement District, Amendment One
 - Skyline Ranch Improvement & Service District, Amendment One
- 8. Construction Closeout Memos (E)**
- Dry Creek ID Transmission Pipeline Replacement 2020
- 9. Project Updates**
- 10. Discussion**
- 11. Future Meetings Schedule (F)**
- November 7-9, 2023: WWDC/SWC Joint Workshop & Meeting - Casper (Funding Recommendations)
- 12. Adjourn**



WYOMING WATER DEVELOPMENT COMMISSION

COMMISSIONERS

Ron Kailey Jr., Chairman | Water Division I
Ron.kailey@wyoboards.gov

Liisa Anselmi-Dalton, Vice-Chairman | Member-at-Large
liisa.anselmi-dalton1@wyoboards.gov

Leonard A. "Lee" Craig, Secretary | Water Division III
lee.craig@wyoboards.gov

Robert Choma | Water Division IV
robert.choma@wyoboards.gov

Clinton W. Glick | Wind River Indian Reservation
clinton.glick@wyo.gov

Todd Hoese | Water Division II
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Mark Kot | Water Division IV
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John Lawson | Water Division I
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Dennis Pince | Water Division III
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Larry Suchor | Water Division II
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ADVISORS

Patrick Kent
Attorney General's Office

Brandon Gebhart
State Engineer

Greg Kerr
University of Wyoming

Josh Dorrell
Wyoming Business Council

STAFF

Jason Mead
Director

David Ray
Administrative/Fiscal Manager

Megan Schoenherr
Business Office Coordinator

Nancy Casner
Office Support Specialist

Jason Mead
Dams & Reservoirs

Shawn Albrandt
High Savery Dam Technician

Cindy Hernandez
Project Manager

STAFF (Continued)

Barry Lawrence
Deputy Director – Planning

Bill Brewer
Deputy Director – Construction

Chace Tavelli
Technical Resource Coordinator

Sol Brich
Project Manager

Keith Clarey
Project Manager

Jeffrey Kaiser
Project Manager

Julie Gondzar
Project Manager

Larry Mallo
Project Manager

Mabel Jones
Project Manager

Ken Mitchell
Project Manager

George Moser
Project Manager

Jennifer Russell
Project Manager

Jodie Pavlica
Project Manager

Wade Verplancke
Project Manager

APPROVAL OF MINUTES



WYOMING WATER DEVELOPMENT COMMISSION

WWDO Workshop:
Wyoming Game & Fish – Cody Regional Office
2 Tilden Trail | Cody, WY
Meeting Room
Tuesday, August 15th, 2023

Workshop Minutes

1. Chairman Ron Kailey called the meeting to order at 1:36 p.m.
2. The pledge of allegiance was recited.
3. **Recognition of Members Present to Establish Quorum** – Secretary Lee Craig

Commission Attendance:

Ron Kailey, Chairman
Liisa Anselmi-Dalton, Vice Chairman
Leonard “Lee” Craig, Secretary
Robert “Bob” Choma – Excused
Clinton Glick - Excused
Todd Hoese
Mark Kot
John Lawson - Virtual
Dennis Pince -Excused
Larry Suchor

Advisor Attendance:

Patrick Kent, Attorney General’s Office
Greg Kerr, University of Wyoming

4. **Financial Status Update (A)**

Water Development Accounts I, II, and III:

Fiscal Manager David Ray provided an overview of Water Development Accounts I, II, and III. A question arose as to why the balance in Account I is lower than previous years. Non-Project administrative costs relative to market pay increases of state personnel, the funding of State Engineer’s Office Board of Control, and overall inflation were explained. Further discussion about budgets available for projects and the Board of Control budget ensued.

Reservoir Operation and Maintenance Accounts:

Director Jason Mead presented a memo to the Commission on behalf of the Water Development Office regarding the 9 Reservoir Operations and Maintenance (O&M) Accounts created under W.S. 99-99-1001(c); conversation ensued. All accounts were either determined to be stable, with no excess funds available or having no statutory provision to move excess funds, thus no action recommended.

5. Planning Projects Consultant Selection Process Update (B)

Deputy Director of Planning Barry Lawrence summarized the 13-month Water Development Project Funding and Consultant Selection process. Short listing was finalized on July 7, 2023 and firms have submitted their proposals for the 2024 planning projects which are pending review by the Commission and other selection team members. After the teams complete their reviews, firms will be ranked for a competitive interview process for each of the following projects:

Level I Projects – New Development

Alpine Water Master Plan
Bairoil Water Master Plan
Chugwater Water Master Plan
Douglas Water Master Plan
GR/RS/SC JPWB Regional Water Master Plan
Green River/Little Snake River Basins Conveyance Loss Study
Hudson Water Master Plan
Salt River Watershed Study
Shoshone Municipal Pipeline Regional Water Master Plan

Level II Projects – New Development

Burns Groundwater Supply
Cody Area Evaluations 2024
Greybull Water System Improvements
Hot Springs County Supply Evaluation

Level I Projects – Rehabilitation

Big Horn Canal ID Master Plan
Elk Canal Master Plan
Horse Creek Conservation District Master Plan
Midvale ID Master Plan
Powder River ID Master Plan
Strawberry Canal Master Plan

Consultant Selection interviews will take place from October 2nd-4th, 2023 with the Consultant Selection Approval WWDC meeting on October 5th, 2023. Discussion followed concerning the lack of submissions from different engineering firms since the Wyoming State Statue on professional services procurement, 9-23-105 changed in 2020. The 2020 statute change resulted in nonresident firm consideration only if no qualified resident firms apply.

6. Operating Criteria

Upper Colorado River Basin Fund MOA:

Director Mead summarized the Office's requested changes in Operating Criteria for the Upper Colorado River Basin Fund Memorandum of Agreement. The changes include references to MOA2 funding and associated effective dates, as well as application deadlines, consideration timelines, and other minor grammatical edits.

7. Project Updates (C)

Leavitt Reservoir Expansion Project:

Deputy Director of Construction Bill Brewer provided an overview of the construction funding history on the Leavitt Reservoir Expansion Project. The Project was originally bid in late 2021, but no award was made because of the lack of Project appropriated funds and the reluctance to use such a large portion of the Account III Sponsor's Contingency fund to cover the shortfall. Since that time value engineering has taken place and bidding documents were split into a number of smaller bid packages to encourage local contractor participation. The Project was recently re-let with bids coming in higher than 2021 and once again exceeding the Project appropriation and available Account III Sponsor Contingency funds. Kevin Mininger with RJH Consultants, the Project design engineer, spoke on behalf of the Shell Valley Watershed Improvement District (SVWID) to present a plan of awarding three of the four big packages, allowing negotiations to occur under those contracts and beginning construction in Fall 2023. The SVWID would then have a better understanding of the appropriation needed for the fourth bid package and would apply for the remaining funding through the WWDC and the 2024 Legislature, with the intent to re-let the fourth bid package in the spring of 2024. Director Mead and individuals from the SVWID answered questions and spoke on the merits of the Project. No opposition to the District's plan was expressed.

8. USGS WY StreamStats Release Presentation (D)

Barry Lawrence, Deputy Director of Planning gave an update on development of the USGS StreamStats program for the State of Wyoming. StreamStats is a map-based online analytical tool that can delineate watersheds, calculate basin characteristics, and provide streamflow information for streams in Wyoming. StreamStats is a national application that is being customized to meet the needs of Wyoming state agencies, engineers, water users, recreationists, and others. The WWDO has a contract with the USGS that began in October 2019 and goes through September, 2027 to further develop the tool. The first modules of the toolkit went live in June. Jason Alexander, Surface Water Section Chief, USGS Cheyenne, provided a presentation on the development of the program for Wyoming and demonstrated many of the features available now to end users.

9. Sponsor Contingency Account Requests

There were no sponsor contingency account requests requiring discussion.

10. Discussion

Director Mead spoke on the Commission's, Select Water Committee's and WWDO's recognition at the 2023 May meeting of the need for further project prioritization consideration in the future as the Program navigates inflation, increased demand, and less buying power with stagnant funding levels being affected by increasing non-project administrative costs. The Office has been contemplating a number of metrics that could be utilized to help with prioritization. However, it will be a learning process, starting with this year's applications, with more discussion with and feedback from the Commission and SWC needed. Discussion ensued.

Director Mead introduced Brian Duyck who is on the Heart Mountain Irrigation Board and owner of Beartooth Seed Cleaning Plant in Powell, WY. Brian announced the newly formed

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Wyoming Association of Irrigation Districts (WAID). Two main goals of the Association are to protect water rights and save farmland. Their hope in coming together is to have a united voice within the state.

Secretary Lee Craig voiced his opinion on when the August WWDC/SWC workshop, tour, and meeting have been scheduled in recent years, causing conflicts with individuals who have obligations at the State Fair. The Office will work to find a week in August that has the least amount of conflicts for everyone attending.

11. Adjournment

Secretary Lee Craig motioned to adjourn the workshop, Commissioner Todd Hoese seconded the motion; motion carried unanimously.

Respectfully submitted,

Lee Craig, Secretary



WYOMING WATER DEVELOPMENT COMMISSION

JOINT MEETING: WWDC/Select Water Committee

Wyoming Game & Fish – Cody Regional Office

2 Tilden Trail | Cody, WY

Meeting Room

Thursday, August 17th, 2023

Meeting Minutes

1. Chairman Ron Kailey called the meeting to order at 8:30 a.m.
2. The pledge of allegiance was recited.
3. **Recognition of Members Present to Establish Quorum** – Secretary Lee Craig

Commission Attendance:

Ron Kailey, Chairman
Liisa Anselmi-Dalton, Vice-Chairman
Leonard “Lee” Craig, Secretary
Robert “Bob” Choma -Excused
Clinton Glick -Excused
Todd Hoese
Mark Kot
John Lawson -Virtual
Dennis Pince
Larry Suchor

Advisor Attendance:

Patrick Kent, AG’s Office
Greg Kerr, University of Wyoming

Select Water Attendance:

Sen. Cheri Steinmetz, Chairman
Rep. John Eklund, Vice-Chair -Excused
Rep. Jon Conrad
Sen. Affie Ellis
Sen. Mike Gierau
Sen. Larry Hicks
Sen. John Kolb
Rep. J.T. Larson
Sen. Dan Laursen
Rep. Chip Neiman
Rep. Albert Sommers
Rep. Mike Yin

4. **Approval of Minutes (E)**

May 11, 2023 WWDC/SWC Joint Meeting Minutes:

Vice-Chairman Liisa Anselmi-Dalton moved to approve the minutes of the May 11, 2023 Joint WWDC/SWC Meeting minutes. Commissioner Larry Suchor seconded; motion carried unanimously.

5. **Operating Criteria (F)**

Upper Colorado River Basin Fund MOA:

Director Jason Mead briefly summarized the criteria changes and updates for the Upper Colorado River Basin MOA.

A motion was made by Commissioner Todd Hoese to accept the criteria changes for the Upper Colorado River Basin Fund MOA. Secretary Lee Craig seconded the motion; motion carried unanimously.

6. Upper Colorado River Basin Find MOA Project Modification (G)

Flaming Gorge Aquatic Invasive Species Prevention - WGFD:

Bill Brewer, Deputy Director of Construction gave an overview of the original 2016 project and previously approved MOA funds. Joshua Leonard with Wyoming Game & Fish explained the WGFD's request for modification of their original request. The modification removes the construction of the new check station facility, mobile offices and signage, and utilizes the funding for personnel to operate the Flaming Gorge (Anvil and Firehole) and Evanston Port of Entry watercraft check stations for calendar years 2024-2026. A brief discussion ensued.

A motion was made by Vice-Chairman Liisa Anselmi-Dalton to approve the Flaming Gorge Aquatic Invasive Species Prevention Modification. Commissioner Todd Hoese seconded the motion; motion carried unanimously.

7. Planning Project Closeout Memos (H)

Town of Cokeville Groundwater Exploration Grant:

Project Manager George Moser reviewed the Town of Cokeville Groundwater Exploration Grant closeout memo.

A motion was made by Commissioner Mark Kot to move acceptance of the Town of Cokeville Groundwater Exploration Grant as being complete. Vice Chairman Liisa Anselmi-Dalton seconded the motion; motion carried unanimously.

8. Planning Project Amendments (I)

USGS WY Streamstats Joint Funding Agreement, Amendment No. 1:

Director Mead briefly reviewed the USGS Streamstats agreement and the modification to funding that was requested. The USGS was previously contributing 40%, \$420,600 to the Streamstats program, but now will be contributing an additional \$210,280, equating to 50%, \$630,880 for a combined total of \$1,261,760. The WWDC's contribution did not change.

A motion was made and seconded by the Select Water Committee to recommend approval of the USGS Streamstats joint funding Agreement, Amendment No. 1.

Vice Chairman Liisa Anselmi-Dalton moved to approve the USGS Streamstats joint funding Agreement, Amendment No. 1. Commissioner Mark Kot seconded, the motion carried unanimously.

West Fork Reservoir Project Third-Party-NEPA Contractor Services, Amendment No. 1:

Director Mead gave a brief explanation for Amendment 1 of the West Fork Reservoir Project Third-Party-NEPA Contractor Services project. This amendment serves to extend the contract expiration date, add scope, and add funding which will allow for the NEPA process to continue for the preparation of the West Fork Reservoir Watershed Plan-EIS. Discussion ensued from the Select Water Committee and Director Mead on budgeting.

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A motion was made and seconded by the Select Water Committee to recommend approval of the West Fork Reservoir Project Third Party-NEPA Contractor Services, Amendment No.

1. Motion carried

Commissioner Mark Kot moved to approve the West Fork Reservoir Project Third Party-NEPA Contractor Services, Amendment No. 1. Commissioner Lee Craig seconded, the motion carried.

9. Small Water Project Program Amendments (J)

Prairie Dog – Wildcat Creek Stock Water Development – Sheridan County CD

Project Manager Jodie Pavlica gave an overview of the change of project type for the Prairie Dog Wildcat Creek Stock Water Development Small Water Project (SWP). A brief discussion ensued.

A motion was made and seconded by the Select Water Committee to recommend approval of the change of project type for the Prairie Dog Wildcat Creek Stock Water SWP.

Commissioner Lee Craig moved to approve the change of project type for the Prairie Dog Wildcat Creek Stock Water Development SWP. Commissioner Larry Suchor seconded, motion carried unanimously.

Considered as a block for approval:

Putney Ditch Pipeline Termination – Cottonwood Grass Creek WID

Putney Ditch Pipeline Agreement – Hot Springs CD

Spring Gulch Well Rehabilitation Termination – Cottonwood Grass Creek WID

Spring Gulch Well Rehabilitation Agreement – Hot Springs CD

Program Manager Jodie Pavlica briefly described the termination and new agreement for each of the above SWP's. These changes are being made because Cottonwood Grass Creek WID dissolved and the Hot Springs CD is taking over the contracts. A brief discussion ensued.

A motion was made and seconded by the Select Water Committee to recommend approval of the terminations and new agreements of the Putney Ditch Pipeline and Spring Gulch Well Rehabilitation.

Commissioner Larry Suchor moved to approve the terminations and new agreements of the Putney Ditch Pipeline and Spring Gulch Well Rehabilitation. Vice Chairman Liisa Anselmi-Dalton seconded, motion carried unanimously.

10. Ground Water Exploration Grant Application/Contract (K)

Northern Arapahoe Tribe:

Program Manager George Moser provided a description of the Ground Water Grant (GWG) program and specifically the Northern Arapahoe Tribe application for a GWG. The WWDO recommended that the Commission do not fund the Northern Arapahoe Tribe Ground Water Exploration Grant because there wasn't an apparent and immediate need for the water. Discussion ensued to provide clarification on the application to the Commission and Select Water Committee. The sponsor of the application did not attend the meeting.

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A motion was made and seconded by the Select Water Committee to recommend acceptance of the WWDO's recommendation of do not fund.

Commissioner Larry Suchor moved to accept the WWDO's recommendation of do not fund. Commissioner Dennis Pince seconded, motion carried unanimously.

11. Sponsor Contingency Account Requests

There were no sponsor contingency account requests requiring discussion.

12. Discussion

Leavitt Reservoir Expansion Project:

Commissioner Todd Hoese made a motion expressing support of the Shell Valley Watershed Improvement District in awarding 3 out of 4 contracts on the Leavitt Reservoir Expansion Project. Commissioner Mark Kot seconded. A brief discussion ensued. The motion carried unanimously.

Select Water Committee Future Meeting Schedule:

Chairman Cheri Steinmetz announced the upcoming joint SWC/Agriculture Committee meeting in Pinedale, WY from September 11-12, 2023.

General:

Commissioner Larry Suchor expressed his thoughts on sponsors following through with planning recommendations and instances where projects could be simple and low cost enough where it may be appropriate to go straight to construction, rather than using what could be an equivalent amount of funds for planning. Discussion ensued.

13. Future Meetings Schedule (L)

Director Mead discussed the dates of October 2nd through 5th for the Consultant Selection Interview and WWDC Meeting. The interviews and meeting will be held in Cheyenne, WY.

14. Adjourn

Vice Chairman Liisa Anselmi-Dalton motioned to adjourn the meeting for the Water Development Commission. Commissioner Todd Hoese seconded the motion; motion carried unanimously.

Respectfully submitted,

Lee Craig, Secretary

2024
PLANNING
PROJECTS
CONSULTANT
SELECTION
APPROVAL

2023 WWDC CONSULTANT INTERVIEW SCHEDULE

MONDAY, OCTOBER 2ND

12:30 PM **Sponsor Briefing**
WWDO Conference Rm

| | | |
|---------|--|---|
| Room: | Hot Springs Supply Eval WWDO Conference Rm | GR/LS Conveyance Loss BORPE Conference Rm |
| 1:00 PM | Engineering Associates | |
| 2:00 PM | DOWL | |
| 3:00 PM | | Stantec |
| Team: | Moser Glick Kailey Mallo Tom Ryan | Tavelli Anselmi-Dalton Kot Payne (SEO) Lawrence |

Commissioners

Open

Choma
Craig
Hoese
Lawson
Pince
Suchor

TUESDAY, OCTOBER 3RD

7:30 AM **Sponsor Briefing**
Capitol Extension Rm #5

| | | | | |
|----------|--|--|--|---|
| Room: | Burns GW Supply Capitol Extension Rm #1 | Chugwater Water MP Capitol Extension Rm #2 | Midvale ID Master Plan Capitol Extension Rm #3 | Strawberry Canal MP Capitol Extension Rm #4 |
| 8:00 AM | Forsgren Associates | Y2 Consultants, LLC | Trihydro Corporation | Sunrise Engineering |
| 9:00 AM | Trihydro Corporation | AVI | Western Heritage | JUB Engineers, Inc. |
| 10:00 AM | Engineering Associates | | | Forsgren Associates |
| Team: | Moser Hoese Kot Moloney (SEO) Judy Johnstone | Clarey Glick Suchor Russell Carol Ash | Gondzar Lawson Pince Kaiser Steve Lynn | Jones Anselmi-Dalton Choma Brewer Julie Olenlager |

Commissioners

Open

Craig
Kailey

12:30 PM **Sponsor Briefing**
Capitol Extension Rm #5

| | | | | | |
|---------|---|---|---|--|---|
| Room: | Alpine Water MP Capitol Extension Rm #1 | Bairoil Water MP Capitol Extension Rm #2 | Elk Canal Master Plan Capitol Extension Rm #3 | Salt R Watershed Study Capitol Extension Rm #4 | Douglas Water MP Capitol Extension Rm #5 |
| 1:00 PM | Forsgren Associates | James Gores & Assoc | JUB Engineers, Inc. | Y2 Consultants, LLC | HDR |
| 2:00 PM | Sunrise Engineering | Forsgren Associates | | | |
| 3:00 PM | Jorgensen Associates | Y2 Consultants, LLC | | | |
| Team: | Moser Glick Pince Brewer Craig Leseberg | Clarey Kot Suchor Kaiser Lowell Clawson | Tavelli Craig Hoese Russell Fred Hopkin | Jones Anselmi-Dalton Choma Marston (WRDS) Kay Lynn Nield | Gondzar Kailey Lawson Pavlica Joshua Oberlander |

WEDNESDAY, OCTOBER 4TH

7:30 AM **Sponsor Briefing**
Capitol Extension Rm #5

| | | | | | |
|----------|--|---|---|--|---|
| Room: | Hudson Water MP Capitol Extension Rm #1 | | Horse Crk CD MP Capitol Extension Rm #3 | Powder River ID MP Capitol Extension Rm #4 | Cody Area Eval 2024 Capitol Extension Rm #5 |
| 8:00 AM | Forsgren Associates | | WWC Engineering | Western Heritage | Engineering Associates |
| 9:00 AM | HDR | | Western Heritage | WWC Engineering | |
| 10:00 AM | | | AVI | | |
| Team: | Moser Glick Pince Marston (WRDS) Sherry Oler | Commissioners <u>Open</u> Kailey Lawson | Pavlica Choma Kot Mitchell Lon Eisenbarth | Jones Hoese Suchor Cordtz (WRDS) Talbot Koch | Tavelli Anselmi-Dalton Craig Mallo Phillip Bowman |

12:30 PM **Sponsor Briefing**
Capitol Extension Rm #5

| | | | | |
|---------|--|---|--|---|
| Room: | Greybull Water Sys Imp Capitol Extension Rm #1 | GR-RS-SC JPWB Water MP Capitol Extension Rm #2 | Big Horn Canal ID MP Capitol Extension Rm #3 | Shoshone Muni Pipeline MP Capitol Extension Rm #5 |
| 1:00 PM | DOWL | Sunrise Engineering | Sage Civil Engineers | Engineering Associates |
| 2:00 PM | James Gores & Assoc | Forsgren Associates | WWC Engineering | DOWL |
| 3:00 PM | | | | |
| Team: | Moser Glick Kailey Bergantino (WRDS) Carrie Hunt | Clarey Anselmi-Dalton Kot Mitchell Bryan Seppie | Jones Craig Pince Russell Richard Russell | Tavelli Choma Lawson Verplancke Craig Barsness |

Commissioners

Open

Hoese
Suchor

PLANNING
CLOSEOUT
MEMOS



**FINAL PROJECT CLOSEOUT MEMO
FOR LEVEL I AND II PLANNING PROJECTS
WYOMING WATER DEVELOPMENT OFFICE
PLANNING DIVISION**



The Planning Project listed below is complete and scheduled for closeout. This memo serves to summarize the findings of the final report and to document the final contract amount.

PROJECT: Dowlin Diversion Rehabilitation
LEVEL: II
SPONSOR: City of Laramie
LOCATION: Laramie, Wyoming
PROGRAM: Rehabilitation
PROJECT MGR: Mabel Jones
WWDC MTG DATE: October 5, 2023

AUTHORIZING LEGISLATION:

| <u>Purpose</u> | <u>Chapter</u> | <u>Session</u> | <u>Account</u> | <u>Appropriation</u> | <u>Due Date</u> |
|----------------|----------------|----------------|----------------|----------------------|-----------------|
| Level II | 84 | 2022 | II | \$110,000 | 2025 |

CURRENT CONTRACT:

Consultant
 Western Water Consultants, Inc.
 d/b/a/ WWC Engineering

| <u>Contract Number</u> | <u>Executed</u> | <u>Original Contract Amount</u> | <u>Final Contract Amount</u> | <u>Contract Savings Amount</u> | <u>Expiration Date</u> |
|------------------------|-----------------|---------------------------------|------------------------------|--------------------------------|------------------------|
| 029CM0090412 | 3-30-22 | \$109,000 | \$108,990.04 | \$9.96 | 6-30-24 |

PROJECT DESCRIPTION:

The City of Laramie owns and operates the majority of the Dowlin Ditch and associated diversion facilities, which irrigate over 2,500 acres on the Bath and Monolith Ranches. The Dowlin Ditch also serves approximately 380 acres to the downstream McKinsey Ranch. The City purchased the Monolith Ranch in 1981 and the Bath Ranch in 2022. The City owns these properties primarily for their water rights, and the future transfer of these water rights to the City's municipal water supply is being studied. The timing of this transfer is currently unknown, but it is likely to coincide with increased water supply demands and new water treatment facilities for the City.

The Dowlin Diversion structure is nearing its useful service life and is in poor condition. Most of the slide gates are leaking and difficult to operate. The general condition of concrete around the structure is in poor or failing condition, specifically on the intake structure. The orientation of the intake structure, in relation to the diversion dam, leads to fine sediment and floating debris accumulation at the intake structure which requires continuous cleaning. The diversion dam also poses safety concerns to City staff during high river flows. Large woody debris routinely gets snagged on the diversion dam slide gates, leading to clogged openings which routes water over the diversion dam embankments. City staff are required to cutout and remove the large woody debris during high river flows.

The study included:

- Alternative analysis of potential diversion structure location and design

- Recommendations for improving irrigation efficiency
- Conceptual design and cost estimate for the diversion structure
- GIS Mapping of water rights and associated irrigation infrastructure

PROJECT FINDINGS/RECOMMENDATIONS:

Three alternatives were evaluated for implementation including rehabilitation or replacement at the existing diversion location and an upstream diversion relocation. The preferred alternative, Alternative 1, was selected by the stakeholder team through a review of project goals and objects. This alternative included replacement of the structure at the existing location with a sheet pile and grouted rock ramp diversion and replacement of the intake structure. After selection, Alternative 1, replacement at the existing location, was refined from a preliminary design to a conceptual design. Conceptual designs and associated costs were developed which include Obermeyer gates, a walkway for maintenance, debris booms, rock ramps to accommodate a fishway and addition of SCADA controls to monitor flow.

The total cost for the preferred alternative is approximately \$2.4 million. It is anticipated that partners will be able to contribute approximately 50% in cash to the project and the sponsor will request a grant for the remaining funding from WWDC.

PUBLIC REPORT PRESENTATIONS HEARING: Y

| <u>Date</u> | <u>Location</u> | <u>City/Town</u> |
|-------------|-----------------------------------|------------------|
| 7-11-23 | City of Laramie Recreation Center | Laramie, WY |

WWDO RECOMMENDATION:

WWDO recommends acceptance of Final Report submittals and closing the Consultant Services Contract.

WWDC PROPOSED MOTION:

I move acceptance of the Dowlin Diversion Rehabilitation, Level II Study project report as being complete and further, the WWDC makes the following findings relative to this project:

1. That the Commission recommend:
 - Proceeding to Level III of project development upon the submittal of an appropriate funding application by the sponsor.
2. Based on the findings in the final report, the project is determined to be in the public interest.
3. The project functions and services cannot realistically be provided by any person, association or corporation engaged in private enterprise.



**FINAL PROJECT CLOSEOUT MEMO
FOR LEVEL I AND II PLANNING PROJECTS
WYOMING WATER DEVELOPMENT OFFICE
PLANNING DIVISION**



The Planning Project listed below is complete and scheduled for closeout. This memo serves to summarize the findings of the final report and to document the final contract amount.

PROJECT: Lander Water Master Plan
LEVEL: I
SPONSOR: City of Lander
LOCATION: Lander, Wyoming
PROGRAM: New Development
PROJECT MGR: Mabel Jones
WWDC MTG DATE: October 5, 2023

AUTHORIZING LEGISLATION:

| <u>Purpose</u> | <u>Chapter</u> | <u>Session</u> | <u>Account</u> | <u>Appropriation</u> | <u>Due Date</u> |
|----------------|----------------|----------------|----------------|----------------------|-----------------|
| Level I | 11 | 2021 | I | \$208,000 | 2024 |

CURRENT CONTRACT:

Consultant
HDR Engineering Inc.

| <u>Contract Number</u> | <u>Executed</u> | <u>Original Contract Amount</u> | <u>Final Contract Amount</u> | <u>Contract Savings Amount</u> | <u>Expiration Date</u> |
|------------------------|-----------------|---------------------------------|------------------------------|--------------------------------|------------------------|
| 029CM0090094 | 4-12-21 | \$207,600 | \$203,600 | \$4,000 | 6-30-23 |

PROJECT DESCRIPTION:

The City of Lander municipal water supply is a direct-flow diversion off the Middle Popo Agie River. The City of Lander’s last Water Master Plan, completed in 2011, focused on addressing significant hydraulic issues within the City’s water transmission and distribution system. Since that time, construction projects implemented by the City have largely resolved the hydraulic issues identified in that report. Two additional studies including a tank/pump station feasibility study and a test well study were recently completed and the City is actively working to procure funding to move forward with construction recommendations.

The City requested this Level I Municipal Master Plan to provide an update to the existing 2011 Water System Master Plan to reflect changes in system operations and maintenance, updates to water system models, and to identify infrastructure needs for future expansion areas. In anticipation of the next twenty years, the planning focus areas including water supply, system expansion, regionalization, reliable service and fiscal responsibility were evaluated to help the City achieve their goals:

PROJECT FINDINGS/RECOMMENDATIONS:

Key findings are summarized as follows:

- **Water Supply-** The adequacy of the City’s water supply to meet future growth and expansion over an extended planning period up to 50 years indicates that the City won’t exceed the hydraulic capacity of the water treatment plant. However, the service area Maximum Day Demand is set to exceed the total water rights through the treatment plant within forty years if no changes are made. Recommendations include:

- Continue to utilize direct flow surface water and storage water from the Middle Popo Agie River and Worthen Meadows Reservoir respectively.
- Implement water conservation during high demand periods.
- Conduct a non-potable water system feasibility study to explore conversion of irrigated green spaces to raw water to reduce demand for treated water.
- Pursue opportunities for acquisition of water rights and new or existing groundwater wells.
- A future WWDO Level II feasibility study is recommended to evaluate potential enlargements of Worthen Meadows Reservoir. The City along with local irrigation stakeholder are currently pursuing a NRCS funded feasibility study to address preliminary planning steps.
- **System Expansion-** Key localized expansion areas were identified and 2020 US Census data was examined to develop growth patterns in these areas to evaluate future transmission corridors, pressure zone limits and pipeline size requirements. The Lander Transportation Plan was used to identify transportation corridors that water transmission lines could be planned concurrently with. Potential regional partners (Tribal Utility Organizations to the north and the Town of Hudson to the east) were identified such that system expansion transmission lines coincided with regional connection transmission lines.
 - Based on this analysis, eight transmission line projects were identified for the capital improvements program to expand service locally
 - Three additional bulk fill stations and improvements to the existing bulk fill station are proposed.
- **Regionalization** A survey was provided to representatives of ten community water systems within 80 miles of Lander to evaluate the possibility combining services to address staffing, regulatory, funding, and supply challenges. Targeted outreach included the communities of Hudson, Dubois, Riverton, Pavillion, tribal entities, HOAs and other privately held water systems. Survey responses reflected concerns about many of these system's long-term viability and indicated a desire among some entities to explore a regional system. Recommendations include the following:
 - Eight partner connections were evaluated for regional service potential. For the partners with existing connections, serious system improvements, reevaluation of the wholesale customer rates, and ensuring adequate metering and backflow prevention are required. Of the new system connections, it was determined that connections with Deer Valley, Lyons Valley Road to Town of Hudson Intertie, and the Shoshone Utility Organization should be pursued.
 - A Level II Study, sponsored by the City of Lander, is recommended to further investigate a regional system for Fremont County.
- **Reliable Service—** The City's water system infrastructure was evaluated to determine condition and reliability. Minor recommendations were made for the water treatment plant and storage tanks. Focus is needed on the pipelines based on number of breaks, pipe age, and material. Based on an examination of the data, roughly 40% of the pipelines in Lander either have unknown age or are at least roughly fifty years in age (if not older). Recommendations include:
 - Rehabilitation at the inlet structures, infiltration gallery, storage tanks, and Worthen Meadows Reservoir outlet.
 - Addition of twelve priority pipeline projects into the twenty-year capital improvements plan.
- **Fiscal Responsibility-** The City's current rate structure, finances, and the 20-year capital improvements program costs were examined to determine financial planning required to meet future demands and maintain the system. Budgeting recommendations are included in the Level I study so the City is prepared for these future costs.

PUBLIC REPORT PRESENTATIONS

HEARING: N

Date

Location

City/Town

3-21-23

City Council Chambers

Lander, WY

WWDO RECOMMENDATION:

WWDO recommends acceptance of Final Report submittals and closing the Consultant Services Contract.

WWDC PROPOSED MOTION:

I move acceptance of the Lander Water Master Plan, Level I Study project report as being complete and further, the WWDC makes the following findings relative to this project:

1. That the Commission recommend:

- Proceeding to the next Level of project development upon the submittal of an appropriate funding application by the sponsor.



**FINAL PROJECT CLOSEOUT MEMO
FOR LEVEL I AND II PLANNING PROJECTS
WYOMING WATER DEVELOPMENT OFFICE
PLANNING DIVISION**



The Planning Project listed below is complete and scheduled for closeout. This memo serves to summarize the findings of the final report and to document the final contract amount.

PROJECT: Little Snake River Valley Water Supply, Phase II
LEVEL: II
SPONSOR: Towns of Baggs and Dixon
LOCATION: Little Snake River Valley (Baggs, Dixon, Savery), Wyoming
PROGRAM: New Development
PROJECT MGR: Chace Tavelli
WWDC MTG DATE: October 5, 2023

AUTHORIZING LEGISLATION:

| <u>Purpose</u> | <u>Chapter</u> | <u>Session</u> | <u>Account</u> | <u>Appropriation</u> | <u>Due Date</u> |
|----------------|----------------|----------------|----------------|----------------------|-----------------|
| Level II | 11 | 2021 | I | \$163,000 | 2024 |

CURRENT CONTRACT:

Consultant: Stantec Consulting Services Inc.

| <u>Contract Number</u> | <u>Executed</u> | <u>Original Contract Amount</u> | <u>Final Contract Amount</u> | <u>Contract Savings Amount</u> | <u>Expiration Date</u> |
|------------------------|-----------------|---|--------------------------------------|--|----------------------------|
| 029CM0090095 | 4-8-21 | \$162,300.00 | \$150,395.06 | \$11,904.94 | 12-31-23 |

PROJECT DESCRIPTION:

This project identified and provided cost estimates for a regional water supply system for the entire Little Snake River Valley that included the towns of Baggs, Dixon, Savery, and the rural users between the towns.

PROJECT FINDINGS/RECOMMENDATIONS:

The final project recommendation is for two phases of construction; Phase 1 would include a new infiltration gallery on the Little Snake River upstream of Dixon and downstream from Savery at the Dolan Bridge. The infiltration gallery would feed a new water treatment plant; the treated water would be pumped to a new water tank just north of Dixon; potable water would then gravity feed from the Dixon tank to the Town of Baggs' existing storage tank while serving rural residents along county road 702 between Dixon and Baggs via an 8" transmission line. Phase 2 includes pumping water from the water treatment plant to a distribution system for the Savery area through a 6-inch line. The initial system is estimated to supply 411 taps. The overall total cost of the project is about \$34,315,000. In moving forward, the residents in the area need to develop a Joint Powers Board to qualify as a legal entity that could sponsor a project.

PUBLIC REPORT PRESENTATIONS HEARING: Y

| <u>Date</u> | <u>Location</u> | <u>City/Town</u> |
|-------------|-------------------------|------------------|
| 8-23-23 | Valley Community Center | Baggs, WY |

WWDO RECOMMENDATION:

The WWDO recommends acceptance of Final Report submittals and closing the Consultant Services Contract.

WWDC PROPOSED MOTION:

I move acceptance of the Little Snake River Valley Water Supply Phase II, Level II project report as being complete and further, the WWDC makes the following findings relative to this project:

1. That the Commission recommend:
 - Proceeding to the next Level of project development upon the submittal of an appropriate funding application by an eligible sponsor.
2. Based on the findings in the final report, the project is determined to be in the public interest.
3. The project functions and services cannot realistically be provided by any person, association or corporation engaged in private enterprise.



**FINAL PROJECT CLOSEOUT MEMO
FOR LEVEL I AND II PLANNING PROJECTS
WYOMING WATER DEVELOPMENT OFFICE
PLANNING DIVISION**



The Planning Project listed below is complete and scheduled for closeout. This memo serves to summarize the findings of the final report and to document the final contract amount.

PROJECT: Rock Creek & Trail Ridge Creek Instream Flows 2020
LEVEL: I
SPONSOR: State of Wyoming
LOCATION: Upper Green River Basin near Marbleton, WY
PROGRAM: Instream Flow Program
PROJECT MGR: Jay Smith
WWDC MTG DATE: October 5, 2023

AUTHORIZING LEGISLATION:

There is no authorizing legislation relative to the WWDC. This project was fully funded by the Wyoming Game and Fish Commission.

CURRENT CONTRACT:

Consultant: Arrow Land & Water, LLC

| <u>Contract Number</u> | <u>Executed</u> | <u>Original Contract Amount</u> | <u>Final Contract Amount</u> | <u>Contract Savings Amount</u> | <u>Expiration Date</u> |
|------------------------|-----------------|---|--------------------------------------|--|----------------------------|
| 029CM0090064 | 12-30-20 | \$19,430.00 | \$19,429.00 | \$ 1.00 | 6-30-23 |

PROJECT DESCRIPTION:

Per Wyo. Stat. § 41-3-1003 the Wyoming Game and Fish Commission (WGFC) identifies stream segments they consider to have the most critical need for instream flows. The WGFC, through the Wyoming Game and Fish Department (WGFD), studies and produces biological reports for each identified segment. The analyses completed in the development of the biological reports aid the WGFC in identifying the points on the stream at which the need for instream flows begins and ends, the time of year when the flows are most critical, and a detailed description of the minimum amount of water necessary to provide adequate instream flows. The statute then requires the Wyoming Water Development Commission (WWDC) to file applications in the name of the State of Wyoming for permits to appropriate water for instream flows in those segments of stream recommended by the WGFC.

Per Wyo. Stat. § 41-3-1004(a), the WWDC is charged with determining the feasibility of providing instream flows for the recommended segments of streams from unappropriated direct flows, from existing storage facilities, or from new facilities. In most cases, the WWDC, administered through the Wyoming Water Development Office (WWDO), contracts with an engineering consultant to complete an instream flow feasibility study. Two analyses are used to help determine the availability of unappropriated direct flows; a mean monthly unappropriated direct flow analysis and an exceedance analysis. An exceedance of 20% or more is desired to ensure the water right is exercised once every five years which is consistent with Wyo. Stat. § 41-3-401(a).

This instream flow study is analyzing two segments near the towns of Marbleton and LaBarge in Sublette County. The specific segments are:

- Rock Creek, tributary of LaBarge Creek in the Green River basin.
- Trail Ridge Creek, tributary of Beaver Creek in the Green River basin.

The Consultant was given notice to proceed in May of 2021. Field measurements were completed in October 2021, and a scoping meeting was held in Marbleton, WY on June 9, 2021 to inform interested legislators, state and federal government staff, irrigators, and other special interest groups of the study. A second season of measurements and data collection was deemed necessary. The second season of data collection occurred during the 2022 summer and winter seasons. The draft report was received in February of 2023. The State Engineer’s Office held a public hearing on May 25, 2023 and the final project deliverables were received in June of 2023.

PROJECT FINDINGS/RECOMMENDATIONS:

The results of the daily flow exceedance analyses are used to determine the percentage of time that the flow rate in the stream equaled or exceeded the requested instream flow.

Techniques described in the USGS, Water Supply Paper 1542-A, “Flow Duration Curves” (Searcy, 1959) were used to perform the analysis. The flow duration curves were created by tabulating not only the ‘average years’, but all the daily virgin flow values for each month. Since there are no water rights associated with any of the study segments, the virgin flow is the unappropriated flow analysis. The unappropriated flows were then ranked in descending order, assigned a percentage by dividing the value’s position by the total number of values, and plotted. The table below summarizes the flow duration curve results for each segment. The requested direct flows, the 20% exceedance and the 50% exceedance values are also shown.

Months that have enough unappropriated flow to meet the requested direct flows 20% of the time or more are printed in green, while months that don’t have enough unappropriated flow 20% of the time are printed in red.

Daily Unappropriated Flow Exceedance Summary Tables

| | Jan | Feb | Mar | Apr | May | Jun | Jul 1-15 | Jul 16-31 | Aug | Sep | Oct | Nov | Dec |
|-------------------------------|-------|-------|-------|-------|-------|-------|----------|-----------|-------|-------|-------|-------|-------|
| Rock Creek | | | | | | | | | | | | | |
| Requested Direct Flow (cfs) | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2.3 | 2.3 | 2.3 | 2 | 2 | 2 |
| % Exceedance Of Reqstd Flow | 0.0% | 0.0% | 3.2% | 47.6% | 76.2% | 72.3% | 50.5% | 8.6% | 0.1% | 1.0% | 0.2% | 0.1% | 0.0% |
| Estimated 20% Exceedance(cfs) | 1.2 | 1.3 | 1.5 | 2.4 | 3.5 | 4.5 | 2.5 | 2.1 | 1.7 | 1.5 | 1.4 | 1.4 | 1.3 |
| Estimated 50% Exceedance(cfs) | 1.1 | 1.1 | 1.2 | 1.9 | 2.8 | 2.9 | 2.0 | 1.6 | 1.3 | 1.2 | 1.3 | 1.2 | 1.1 |
| Trail Ridge Creek | | | | | | | | | | | | | |
| Requested Direct Flow (cfs) | 1.8 | 1.8 | 1.8 | 3 | 3 | 3 | 3 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| % Exceedance Of Reqstd Flow | 15.7% | 18.2% | 38.5% | 77.7% | 90.1% | 83.8% | 74.0% | 74.3% | 53.9% | 35.9% | 41.9% | 33.9% | 16.5% |
| Estimated 20% Exceedance(cfs) | 1.6 | 1.7 | 1.2 | 14.2 | 16.8 | 18.1 | 16.0 | 7.9 | 3.9 | 2.7 | 2.5 | 2.2 | 1.7 |
| Estimated 50% Exceedance(cfs) | 1.0 | 1.1 | 1.5 | 6.0 | 8.6 | 9.1 | 6.5 | 3.6 | 2.0 | 1.4 | 1.7 | 1.5 | 1.1 |

Rock Creek; April through July 15th meet the 20% exceedance. While July 16th through March do not meet the 20% exceedance.

Trail Ridge Creek; March through November meet the 20% exceedance. While December through February do not meet the 20% exceedance.

PUBLIC REPORT PRESENTATION & STATE ENGINEER'S OFFICE HEARING: Y

| <u>Date</u> | <u>Location</u> | <u>City/Town</u> |
|-------------|------------------------------------|------------------|
| 5-25-23 | Marbleton Town Hall, 10700 HWY 189 | Marbleton, WY |

FINAL REPORT/EXECUTIVE SUMMARIES ONLINE:

http://library.wrds.uwyo.edu/instream_flow/Rock_Creek_and_Trail_Ridge_Creek-Instream_Flows_Level_I_Study-2023.html

WWDO RECOMMENDATION:

The WWDO recommends acceptance of the final report submittals and closing the consultant services contract. The completed study was forwarded to the Wyoming State Engineer's Office, Wyoming Board of Control Water Division IV Superintendent's Office (Cokeville), and the Wyoming Game & Fish Department.

WWDC PROPOSED MOTION:

I move acceptance of the Rock Creek & Trail Ridge Creek Instream Flows 2020, Level I Study project report as being complete.



**FINAL PROJECT CLOSEOUT MEMO
FOR LEVEL I AND II PLANNING PROJECTS
WYOMING WATER DEVELOPMENT OFFICE
PLANNING DIVISION**



The Planning Project listed below is complete and scheduled for closeout. This memo serves to summarize the findings of the final report and to document the final contract amount.

PROJECT: Upton Water Master Plan
LEVEL: I
SPONSOR: Town of Upton
LOCATION: Upton, Wyoming
PROGRAM: New Development
PROJECT MGR: Keith Clarey
WWDC MTG DATE: October 5, 2023

AUTHORIZING LEGISLATION:

| <u>Purpose</u> | <u>Chapter</u> | <u>Session</u> | <u>Account</u> | <u>Appropriation</u> | <u>Due Date</u> |
|----------------|----------------|----------------|----------------|----------------------|-----------------|
| Level I | 11 | 2021 | I | \$153,000 | 2024 |

CURRENT CONTRACT:

Consultant

Bearlodge Engineering and Surveying

| <u>Contract Number</u> | <u>Executed</u> | <u>Original Contract Amount</u> | <u>Final Contract Amount</u> | <u>Contract Savings Amount</u> | <u>Expiration Date</u> |
|------------------------|-----------------|---------------------------------|------------------------------|--------------------------------|------------------------|
| 029CM0100158 | 4-22-21 | \$152,483.00 | \$151,993.62 | \$489.38 | 6-30-23 |

PROJECT DESCRIPTION:

The Town of Upton is located in Weston County and sits within the Cheyenne River Basin. The Town has a population of 1,100 people and they are served through 525 taps within the corporate limits and 2 taps outside of the corporate limits. The Town is supplied from three (3) Madison Limestone wells and has four (4) storage tanks (three (3) 200,000-gallon tanks and one (1) 300,000-gallon elevated tank).

The Town of Upton requested a Level I water master plan to identify system needs, develop a plan to accommodate future growth, evaluate the components of their existing system, and provide a schedule for improvements. The plan will serve as a framework to establish project priorities, perform financial planning necessary to meet those priorities, and provide reconnaissance-level information regarding costs and scheduling.

PROJECT FINDINGS/RECOMMENDATIONS:

Following a thorough Level I water master plan analysis of the system improvement alternatives, conclusions were drawn, and a recommended plan of action was developed. The proposed projects are listed below in order of priority from highest to lowest.

1. Construct a new well in the vicinity of Tank #4. In addition to resolving a significant water level lag at Tank #4, drilling a new Madison well at the tank #4 location will provide an additional well for the Town of Upton. In addition to providing an additional groundwater source, having a new well located at the Tank #4 location will provide insurance against a catastrophic water outage for the town in the event the transmission line connecting Tanks #1

and 3 to the distribution system is ruptured and must be shut down. One final benefit that was considered for drilling a new well at the Tank #4 location is that electrical service for this location is provided by Powder River Energy Corporation instead of Black Hills Power, the power supplier for the town's other wells. Having a different power utility will add redundancy to the town's water system in the event of a power outage in the Black Hills Power electrical grid. [Approximately \$1,660,000]

2. Upgrade existing 8" AC transmission line in Pine Street. The "Upgrading Existing 8" AC Transmission Line in Pine Street" alternative is intended to upgrade the transmission line that conveys water from Tanks #1 and #3 to the town's distribution system. The existing transmission line is 8" AC that runs across multiple properties that are privately owned. In addition to the need to replace the aging asbestos-cement pipeline (installed in 1965), the town wishes to move this line from its existing route across the various private properties, into the town's right-of-way (North Pine Street). [Approximately \$566,000]
3. Construct a 200,000-gallon storage tank to replace the existing Tank #2 being deleted from the system. Even though the total volume of stored water in the town's Tanks #1, #3, and #4 meets the DEQ-required minimum storage volume, when adjusted to account for the operating levels required to maintain the DEQ-required 35-psi normal operating pressure, the stored volume above the critical level is 227,600 gallons, significantly less than the 422,700 gallons required by the DEQ standard. [Approximately \$1,354,000]
4. Upgrade existing 8" AC transmission line in Cedar Street. Replacement of this line will replace an aging asbestos cement transmission line that is instrumental in delivering water service to a large part of the town. This is a main transmission line that transports water to the east side of Upton and is in extremely poor condition due to the age of these AC pipelines in the system having exceeded their performance expectations. Replacing this transmission line is the highest priority for the town regarding replacing outdated waterlines. [Approximately \$794,000]

PUBLIC REPORT PRESENTATION

HEARING: N

Date

Location

City/Town

4-14-23

Upton Town Hall, 725 2nd Street

Upton, WY

WWDO RECOMMENDATION:

The WWDO recommends acceptance of Final Report submittals and closing the Consultant Services Contract. The Town of Upton has not applied for additional WWDC funding at this time, but they intend to apply sometime in the future for the selected alternatives. The WWDO further recommends proceeding to the next Level of project development upon submittal of an appropriate funding application by the Sponsor.

WWDC PROPOSED MOTION:

I move acceptance of the Upton Water Master Plan, Level I Study project report as being complete and further, the WWDC makes the following findings relative to this project:

1. That the Commission recommend:
 - Proceeding to the next Level of project development upon the submittal of an appropriate funding application by the sponsor.



**FINAL PROJECT CLOSEOUT MEMO
FOR LEVEL I AND II PLANNING PROJECTS
WYOMING WATER DEVELOPMENT OFFICE
PLANNING DIVISION**



The Planning Project listed below is complete and scheduled for closeout. This memo serves to summarize the findings of the final report and to document the final contract amount.

PROJECT: West Afton/Nield String Master Plan
LEVEL: I
SPONSOR: West Afton Irrigation District, Nield String Sprinkler Company
LOCATION: Afton, Wyoming
PROGRAM: New Development
PROJECT MGR: Mabel Jones
WWDC MTG DATE: October 5, 2023

AUTHORIZING LEGISLATION:

| <u>Purpose</u> | <u>Chapter</u> | <u>Session</u> | <u>Account</u> | <u>Appropriation</u> | <u>Due Date</u> |
|----------------|----------------|----------------|----------------|----------------------|-----------------|
| Level I | 84 | 2022 | II | \$88,000 | 2025 |

CURRENT CONTRACT:

Consultant
Sunrise Engineering, Inc.

| <u>Contract Number</u> | <u>Executed</u> | <u>Original Contract Amount</u> | <u>Final Contract Amount</u> | <u>Contract Savings Amount</u> | <u>Expiration Date</u> |
|------------------------|-----------------|---------------------------------|------------------------------|--------------------------------|------------------------|
| 029CM0100422 | 4-07-22 | \$87,843.00 | \$77,838.50 | \$10,004.50 | 6-30-24 |

PROJECT DESCRIPTION:

The West Afton and Nield String Sprinkler Companies requested a reconnaissance study to determine the current condition and future needs for agricultural water delivery to 101 landowners. During this study, the West Afton Sprinkler Company reorganized as the West Afton Irrigation District. West Afton and Nield String encompass about 934 and 928 water righted acres respectively. The pipeline serving both entities originates at a common diversion structure at the mouth of Swift Creek Canyon just east of Afton. The pipeline is estimated to be 12 to 14 miles in length and provides gravity flow irrigation water to the service area.

The two entities have experienced increasing demands on water masters for both administrative services and maintenance as the land is subdivided and the systems age. Both entities have adjusted rates over the years to keep up with maintenance and have managed to replace some portions of the system piping corroded beyond use. As age and wear accelerate the need for projects, this study was needed to identify and prioritize these projects and to estimate the required rate adjustments.

PROJECT FINDINGS/RECOMMENDATIONS:

Project findings and recommendations include the following:

- **Diversion and intake structure improvements**-Projects include rehabilitating the diversion structure, installing a new screen, and replacing portions of the systems mainlines. The current state of the diversion and intake structures are the most time-consuming maintenance item for the two entities.

- **Distribution system improvements**-Projects include transmission line replacement, valve replacement and improvements, and addressing water hammer. Due to the cost associated with pipeline replacement a phased approach is recommended.
- **Implementation of administrative policies**-Several topics to protect users from unnecessary maintenance and water shortage are proposed including limiting new mainlines, penalties for overuse of water, monitoring water use on small lots and right-of-way encroachment.
- **Public entity formation and eligibility for project funding**-Options for becoming a public entity, as defined by Wyoming Statute, were presented to the Sponsor. The most appropriate entity was determined to be an Irrigation District. During the course of the study West Afton Sprinkler Company reorganized as an Irrigation District under a separate initiative. Pursuance of entity formation by Nield String would need to be a local sponsor drive initiative outside of this study. However, forming a District alone will not address the 1,000-acre minimum funding requirement from the WWDC. To meet the minimum 1,000-acre requirement, the West Afton Irrigation District and a future Nield String Irrigation District must acquire additional water righted acres or combine to form a single district.

PUBLIC REPORT PRESENTATIONS

HEARING: N

Date
7-25-23

Location
City Hall

City/Town
Afton, WY

WWDO RECOMMENDATION:

WWDO recommends acceptance of Final Report submittals and closing the Consultant Services Contract.

WWDC PROPOSED MOTION:

I move acceptance of the West Afton/Nield String Master Plan, Level I Study project report as being complete and further, the WWDC makes the following findings relative to this project:

1. That the Commission recommend:
 - Proceeding to the next Level of project development upon the submittal of an appropriate funding application by an eligible sponsor.



**FINAL PROJECT CLOSEOUT MEMO
FOR LEVEL I AND II PLANNING PROJECTS
WYOMING WATER DEVELOPMENT OFFICE
PLANNING DIVISION**



The Planning Project listed below is complete and scheduled for closeout. This memo serves to summarize the findings of the final report and to document the final contract amount.

PROJECT: Wheatland Water Master Plan
LEVEL: I
SPONSOR: Town of Wheatland
LOCATION: Wheatland, Wyoming
PROGRAM: New Development
PROJECT MGR: Keith Clarey/Mike Robertson
WWDC MTG DATE: October 5, 2023

AUTHORIZING LEGISLATION:

| <u>Purpose</u> | <u>Chapter</u> | <u>Session</u> | <u>Account</u> | <u>Appropriation</u> | <u>Due Date</u> |
|----------------|----------------|----------------|----------------|----------------------|-----------------|
| Level I | 11 | 2021 | I | \$125,000 | 2024 |

CURRENT CONTRACT:

Consultant
 Civil Engineering Professionals, Inc.

| <u>Contract Number</u> | <u>Executed</u> | <u>Original Contract Amount</u> | <u>Final Contract Amount</u> | <u>Contract Savings Amount</u> | <u>Expiration Date</u> |
|------------------------|-----------------|---------------------------------|------------------------------|--------------------------------|------------------------|
| 029CM0090147 | 4-6-21 | \$124,890.00 | \$124,881.18 | \$8.82 | 6-30-23 |

PROJECT DESCRIPTION:

The Town of Wheatland is located in Platte County and lies within the North Platte River Basin. The Town has a population of 3,553 people and they are served through 1,920 taps within the corporate limits and 60 taps outside of the corporate limits (1,980 taps total). The Town is supplied with groundwater from nine (9) wells constructed into the Arikaree Formation. The Town stores water in three (3) 1-million-gallon tanks.

The Town of Wheatland requested a Level I water master plan to identify system needs, develop a plan to accommodate future growth, evaluate the components of their existing system, and provide a schedule for improvements. The plan will serve as a framework to establish project priorities, perform financial planning necessary to meet those priorities, and provide reconnaissance-level information regarding costs and scheduling.

PROJECT FINDINGS/RECOMMENDATIONS:

The Level I water master plan conducted a detailed analysis of the entire water system, including proposed improvements to the supply, transmission, and storage systems. The improvements included modifications to the water system to address operational deficiencies and replace aging and undersized system components.

- Replace the leaking Black Mountain storage tank [approximately \$6,239,000]
- Construct a new 12-inch North Transmission Pipeline Loop [Approximately \$2,852,000]

- Construct a new Black Mountain Transmission Pipeline Loop [Approximately \$2,145,000]
- Construct a new 8-inch distribution pipeline from Dower Road to Cedar Street [Approximately \$2,839,000]
- Construct a new 8-inch distribution pipeline from Cedar Street to Gilchrist Street [Approximately \$3,435,000]
- Construct a new 8-inch distribution pipeline from Gilchrist Street to South Street [Approximately \$996,000]
- Construct a new 8-inch distribution pipeline from South Street to Cottonwood Avenue [Approximately \$2,496,000]
- Construct a new 8-inch distribution pipeline from the cemetery south to Rick’s Tracks [Approximately \$869,000]

This study identified the replacement of the Black Mountain storage tank as the highest priority for the Town of Wheatland. The current tank has severe leakage problems which are causing safety issues as the tank site is continuing to erode. An elevated welded steel tank would correct these issues and position the Town for future development.

PUBLIC REPORT PRESENTATION HEARING: N

| <u>Date</u> | <u>Location</u> | <u>City/Town</u> |
|-------------|---|------------------|
| 9-27-22 | Wheatland Town Hall, 600 9 th Street | Wheatland, WY |

WWDO RECOMMENDATION:

The WWDO recommends acceptance of Final Report submittals and closing the Consultant Services Contract. The Town of Wheatland submitted a WWDC Level III application before September 1, 2023, for the replacement of the Black Mountain storage tank.

WWDC PROPOSED MOTION:

I move acceptance of the Wheatland Water Master Plan, Level I Study project report as being complete and further, the WWDC makes the following findings relative to this project:

1. That the Commission recommend:
 - Proceeding to the next Level of project development upon the submittal of an appropriate funding application by the sponsor.

GROUNDWATER
EXPLORATION
GRANT
CONTRACT
AMENDMENTS



THE STATE OF WYOMING

Water Development Office

6920 YELLOWTAIL ROAD TELEPHONE: (307) 777-7626 CHEYENNE, WY 82002



MEMORANDUM

DATE: October 5, 2023
TO: Wyoming Water Development Commission
FROM: George Moser, P.G., Groundwater Grant Program Manager
SUBJECT: Contract Amendment One
Happy Valley Groundwater Exploration Grant

For WWDC consideration today is a Groundwater Exploration Grant Contract amendment to extend the deadline for project completion to October 31, 2025.

The Water Development Commission approved a Groundwater Exploration Grant for Happy Valley Water and Improvement District during the January 2022 meeting. The Current Contract expires January 31, 2024.

Happy Valley is located approximately 3 miles south of Afton, Wyoming. Happy Valley currently obtains water from two springs located in Dry Creek. Happy Valley sponsored a Level II study to evaluate regionalization and assess the potential for groundwater supply for a regional system. The Level II Study was completed in July of 2021, and included preliminary well siting work.

Happy Valley was able to use their position with the Groundwater Exploration Grant to begin efforts for a regional system with the neighboring Osmond system. Like many communities, putting together a funding package for infrastructure improvements is important for overall affordability. Happy Valley has been pursuing sources to fund not only the groundwater well, but also transmission piping and storage.

In addition to Groundwater Exploration Grant funds, Happy Valley also has WWDC Level III project funding for design and easements. In 2023, Happy Valley was also able to secure funding through ARPA. Because Happy Valley was able to secure multiple sources of funding, the expanded Happy Valley Water Improvement and Service District anticipates beginning overall design and construction soon with test well drilling to occur during the summer of 2024.

WWDC motion for consideration:

I move that the Commission approve the First Amendment to the Happy Valley Groundwater Exploration Grant Contract.

**AMENDMENT ONE TO
CONTRACT FOR SERVICES NO. 029CM0090407
BETWEEN THE WYOMING WATER DEVELOPMENT COMMISSION AND
HAPPY VALLEY WATER AND IMPROVEMENT DISTRICT
GROUNDWATER EXPLORATION GRANT**

1. **Parties.** This Amendment is made and entered into by and between the Wyoming Water Development Commission [Commission], whose address is: 6920 Yellowtail Road, Cheyenne, Wyoming 82002; and the Happy Valley Water and Improvement District [Sponsor], whose address is: 122 Happy Valley Lane, Afton, Wyoming 83110.
2. **Purpose of Amendment.** This Amendment shall constitute the first amendment to the Contract between the Commission and the Sponsor. The purpose of this Amendment is to extend the term of the Contract through October 31, 2025.

The original Contract, dated February 1, 2022, required the Sponsor to acquire certain technical, professional, or contract services as required to construct a new public water supply well for a total Contract amount of two hundred ninety-eight thousand, five hundred dollars (\$298,500.00) with an expiration date of January 31, 2024.

3. **Term of the Amendment.** This Amendment shall commence upon the date the last required signature is affixed hereto (Effective Date), and shall remain in full force and effect through the term of the Contract, as amended, unless terminated at an earlier date pursuant to the provisions of the Contract, or pursuant to federal or state statute, rule or regulation.
4. **Amendments.**
 - A. The second sentence of Section 3 of the original Contract is hereby amended to read as follows:

“The term of this Contract is from the Effective Date through October 31, 2025.”

5. **Amended Responsibilities of the Sponsor.**

Responsibilities of the Sponsor have not changed.

6. **Amended Responsibilities of the Commission.**

Responsibilities of the Commission have not changed.

7. **Special Provisions.**

- A. **Same Terms and Conditions.** With the exception of items explicitly delineated in this Amendment, all terms and conditions of the original Contract, and any previous amendments, between the Commission and the Sponsor, including but not limited to sovereign immunity, shall remain unchanged and in full force and effect.
- B. **Counterparts.** This Amendment may be executed in counterparts. Each counterpart, when executed and delivered, shall be deemed an original and all counterparts together shall constitute one and the same Amendment. Delivery by the Sponsor of an originally signed counterpart of this Amendment by PDF shall be followed up immediately by delivery of the originally signed counterpart to the Commission.

8. **General Provisions.**

- A. **Entirety of Contract.** The Original Contract, consisting of thirteen (13) pages; Attachment A, Scope of Services, consisting of fifteen (15) pages; and this Amendment One, consisting of three (3) pages represent the entire and integrated Contract between the parties and supersede all prior negotiations, representations, and agreements whether written or oral.

THE REMAINDER OF THIS PAGE WAS INTENTIONALLY LEFT BLANK

- 9. **Signatures.** The parties to this Amendment, through their duly authorized representatives, have executed this Amendment on the dates set out below, and certify that they have read, understood, and agreed to the terms and conditions of this Amendment.

This Amendment is not binding on either party until approved by A&I Procurement and the Governor of the State of Wyoming or his designee, if required by Wyo. Stat. § 9-2-3204(b)(iv).

WYOMING WATER DEVELOPMENT COMMISSION:

 Ronald E. Kailey, Jr., Chairman _____
Date

 Lee Craig, Secretary _____
Date

HAPPY VALLEY WATER AND IMPROVEMENT DISTRICT:

 Mark Erickson, President _____
Date

ATTORNEY GENERAL’S OFFICE: APPROVAL AS TO FORM

 Megan Pope, Senior Assistant Attorney General _____
Date



THE STATE OF WYOMING

Water Development Office

6920 YELLOWTAIL ROAD TELEPHONE: (307) 777-7626 CHEYENNE, WY 82002



MEMORANDUM

DATE: October 5, 2023
TO: Wyoming Water Development Commission
FROM: George Moser, P.G., Groundwater Grant Program Manager
SUBJECT: Contract Amendment One
Skyline Ranch Groundwater Exploration Grant

For WWDC consideration today is a Groundwater Exploration Grant Contract amendment to extend the deadline for project completion to June 30, 2024.

The Water Development Commission approved a Groundwater Exploration Grant for Skyline Ranch Improvement & Service District (SRISD) during the November 2021 meeting. The Current Contract expires December 31, 2023.

SRISD is located 2 miles west of Jackson on State HWY 22 along the east banks of the Snake River, in an unincorporated area of Teton County. The existing supply is provided by two groundwater wells, and the GWG project is for design, construction, and testing for a third well (to be called "Well #4).

The well was drilled and tested this summer. The well was completed about 70 feet below ground surface and has been pump tested at rates exceeding 1,000 gallons per minute. Unfortunately, water quality results indicated elevated levels of iron bacteria in the water. The geological consultant has recommended additional water quality sampling to further identify and characterize the bacteria, with the goal of developing options for well and/or water treatment.

The bulk of the draft report has been completed. The final water quality results will be added to the report, which will likely push the final reporting and project invoicing beyond the current Contract deadline. Consequently, the SRISD Board voted, on September 21, 2023, to request an extension of time for six months to allow time for project completion.

WWDC motion for consideration:

I move that the Commission approve the First Amendment to the Skyline Ranch Groundwater Exploration Grant Contract.

**AMENDMENT ONE TO
CONTRACT FOR SERVICES NO. 029CM0090363
BETWEEN THE WYOMING WATER DEVELOPMENT COMMISSION AND
SKYLINE RANCH IMPROVEMENT & SERVICE DISTRICT
GROUNDWATER EXPLORATION GRANT**

1. **Parties.** This Amendment is made and entered into by and between the Wyoming Water Development Commission [Commission], whose address is: 6920 Yellowtail Road, Cheyenne, Wyoming 82002; and the Skyline Ranch Improvement & Service District [Sponsor], whose address is: PO Box 3601, Jackson, WY 83001.
2. **Purpose of Amendment.** This Amendment shall constitute the first amendment to the Contract between the Commission and the Sponsor. The purpose of this Amendment is to extend the term of the Contract through June 30, 2024.

The original Contract, dated December 20, 2021, required the Sponsor to acquire certain technical, professional, or contract services as required to construct a new public water supply well for a total Contract amount of one hundred seventy-six thousand, two hundred fifty dollars (\$176,250.00) with an expiration date of December 31, 2023.

3. **Term of the Amendment.** This Amendment shall commence upon the date the last required signature is affixed hereto (Effective Date), and shall remain in full force and effect through the term of the Contract, as amended, unless terminated at an earlier date pursuant to the provisions of the Contract, or pursuant to federal or state statute, rule or regulation.
4. **Amendments.**
 - A. The second sentence of Section 3 of the original Contract is hereby amended to read as follows:

“The term of this Contract is from the Effective Date through June 30, 2024.”

5. **Amended Responsibilities of the Sponsor.**

Responsibilities of the Sponsor have not changed.

6. **Amended Responsibilities of the Commission.**

Responsibilities of the Commission have not changed.

7. **Special Provisions.**

- A. **Same Terms and Conditions.** With the exception of items explicitly delineated in this Amendment, all terms and conditions of the original Contract, and any

previous amendments, between the Commission and the Sponsor, including but not limited to sovereign immunity, shall remain unchanged and in full force and effect.

- B. Counterparts.** This Amendment may be executed in counterparts. Each counterpart, when executed and delivered, shall be deemed an original and all counterparts together shall constitute one and the same Amendment. Delivery by the Sponsor of an originally signed counterpart of this Amendment by PDF shall be followed up immediately by delivery of the originally signed counterpart to the Commission.

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- A. Entirety of Contract.** The Original Contract, consisting of thirteen (13) pages; Attachment A, Scope of Services, consisting of fifteen (15) pages; and this Amendment One, consisting of three (3) pages represent the entire and integrated Contract between the parties and supersede all prior negotiations, representations, and agreements whether written or oral.

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- 9. **Signatures.** The parties to this Amendment, through their duly authorized representatives, have executed this Amendment on the dates set out below, and certify that they have read, understood, and agreed to the terms and conditions of this Amendment.

This Amendment is not binding on either party until approved by A&I Procurement and the Governor of the State of Wyoming or his designee, if required by Wyo. Stat. § 9-2-3204(b)(iv).

WYOMING WATER DEVELOPMENT COMMISSION:

 Ronald E. Kailey, Jr., Chairman _____
Date

 Lee Craig, Secretary _____
Date

SKYLINE RANCH IMPROVEMENT & SERVICE DISTRICT:

 Kurt Harland, Board Chair _____
Date

ATTORNEY GENERAL’S OFFICE: APPROVAL AS TO FORM

 Megan Pope, Senior Assistant Attorney General _____
Date

CONSTRUCTION
CLOSEOUT
MEMOS



**WYOMING WATER DEVELOPMENT COMMISSION
LEVEL III CONSTRUCTION REPORT**



PROJECT: Dry Creek ID Transmission Pipeline Replacement 2020 **SPONSOR:** Dry Creek Irrigation District

PROJECT DESCRIPTION: This project is to replace 8,780 linear feet of pipe associated with the LS-2 and LS-2B segments.

WWDC MANAGER: Jeffrey Kaiser

FUNDING

| | | | |
|------------------------------|-----------------|-----------------|------------|
| WWDC Appropriation: | \$ 1,340,000.00 | WWDC Account: | Account II |
| WWDC Grant Amount: | \$ 897,800.00 | Session Law: | 2020 |
| WWDC Loan Amount: | \$ 442,200.00 | Reversion Date: | 2025 |
| <u>Total Project Budget:</u> | \$ 1,340,000.00 | | |

ENGINEERING

| | | | |
|-------------------|---------------------|-----------------|-------------|
| Engineer: | Sunrise Engineering | Agreement Date: | Oct-30-2020 |
| Design Fee: | \$ 97,400.00 | | |
| Construction Fee: | \$ 88,300.00 | | |
| Total Fee: | \$ 185,700.00 | | |

CONSTRUCTION

| | | | |
|----------------------|----------------------|--------------------|-------------------|
| Bid Opening Date: | Nov-17-2021 | Number of Bids: | 5 |
| Low Bidder: | VanDeburg Excavation | Range of Bids: | \$1.32M - \$1.83M |
| Engineer's Estimate: | \$ 1,117,230.00 | Agreement Date: | Dec-16-2021 |
| Contractor Amount: | \$ 1,320,440.00 | Construction Time: | 90 days |

MISCELLANEOUS COSTS (Easements, Permits, Title Of Opinion, Title Search etc.)

| | |
|-------------|------|
| Misc. Costs | \$ - |
|-------------|------|

PROJECT CLOSEOUT

| | | | |
|------------------------|-----------------|-------|-------------|
| Final Project Cost: | \$ 1,506,140.00 | Date: | Aug-01-2023 |
| WWDC Funding Share: | \$ 897,800.00 | | |
| Other Funding Sources: | \$ 608,340.00 | | |
| WWDC Reverted Funding: | \$ 442,200.00 | | |

PROJECT STATUS

This project is completed and closed out.

FUTURE
MEETING
SCHEDULE



**2023 WWDC/SWC FUTURE MEETINGS SCHEDULE
(October 2023)**

| Date: | Day: | Program Item: |
|------------------------|-------------|---|
| <u>NOVEMBER</u> | | |
| November 7, 2023 | Tuesday | WWDC/SWC Workshop (Casper) |
| November 8-9, 2023 | Wed-Thurs | WWDC/SWC Joint Meeting (Preliminary Funding Recs prior to Wyo Legislature) |