Teton Irrigating & Manufacturing Company
3000 N Lateral Pipe Conversion Project

WaterSMART Small-Scale Efficiency Projects-January 2024
Funding Opportunity No. R24AS00059

APPLICANT:
Teton Irrigating & Manufacturing
350 North 6th West
PO BOX 15
Saint Anthony, Idaho 83445

PROJECT MANAGER:
Brooke Mace
(208) 419-9241

Table of Contents

Attachments:
Attachment A-Location Map
Attachment B-Project Map

Small-Scale Water Efficiency Projects FY 2024

Technical Proposal and Evaluation Criteria

Executive Summary

Applicant Info

Date: January 11, 2024

Applicant Name: Teton Irrigating & Manufacturing Company Category A Applicant

City, County, State: Teton, Madison, Idaho

Project Manager:
Name: Brooke Mace
Phone: 208-419-9241
Email: Tetonclerk@gmail.com

Project Funding Request: Small Scale Water Efficiency Projects- Total Cost $174,800.00. Teton Irrigation Canal Company is requesting 50% funding from Reclamation or $87,400.00.

Project Summary

Teton Irrigating & Manufacturing Company (TIMC) proposes to install 2,480 feet of 24 inch PVC pipeline to convert the 3000 N Lateral from earthen canal to pipe. The 3000 N Lateral is a major problem for the canal company. The beginning of the section to be lined makes a 90 degree turn. This corner continually caused significant erosion. The corner has been rip-rapped several times but requires annual maintenance to rebuild the bank and place the rip-rap. This lateral also sits on a basalt shelf, causing lateral seepage that floods out a potato storage facility across the road to the north. The canal company has been unable to fix the issue and believes the only way to prevent this from happening is to convert to pipe.

Project Schedule

The proposed start date for the project will be April 2025 with a completion date of May 2025.

This project is not located on a federal facility.

Project Location

Attachment A provides the geographic location on a map.
Attachment B Project Map

Table 1. Location

Location Name	Latitude	Longitude	County/State
3000 N Lateral	43°52'8.55"N	111°41'17.45"W	Madison/Idaho

Nearest Towns

This Location is located about 2 miles Southwest of the City of Teton.

Technical Project Description

Provide a comprehensive description of the technical aspects of your project, including the scope of work to be accomplished and the approach for the on-the-ground project. This description should provide detailed information about the project materials and equipment including what is currently installed and a description of the upgrade being made. Include in your description the necessary site preparation, removal of materials, motorized and rotating equipment required for installation, site laydown and mobilization areas, and areas impacted by construction. This section provides an opportunity for the applicant to provide a clear description of the technical nature and installation process of the project and to address any aspect of the project that reviewers may need additional information to understand.

Please do not include your project schedule and milestones here; that information is requested in response to the Evaluation Criterion C—Implementation and Results. In addition, please avoid discussion of the benefits of the project, which are also requested in response to evaluation criteria. This section is solely intended to provide an understanding of the technical aspects of the project.

Please note, if the work for which you are requesting funding is a phase of a larger project, please only describe the work that is reflected in the budget and exclude description of other activities or components of the overall project.

TIMC proposes to install 2,480 feet of 24 inch PVC pipeline to convert the 3000 North Lateral from earthen canal to pipe. The area will be excavated and bedded prior to pipeline installation.

This is a simple project.

Technical Proposal: Evaluation Criteria

The evaluation criteria portion should be addressed in the technical proposal section of the application. Applications should thoroughly address each criterion and any sub-criterion in the order presented below. **Applications will be evaluated against the evaluation criteria listed below.**

Evaluation Criterion A. Project Benefits (35 points)

Up to **35 points** may be awarded based upon evaluation of the benefits that are expected to result from implementing the proposed project. This criterion considers a variety of project benefits, including the significance of the anticipated water management benefits and the public benefits of the project. This criterion prioritizes projects that modernize existing infrastructure to address water reliability concerns, including making water available for multiple beneficial uses and resolving water related conflict in the region.

If the work described in your application is a phase of a larger project, only discuss the benefits that will result directly from the work discussed in the technical project description and that is reflected in the budget, not the larger project.

Benefits to the Category A Applicant's Water Delivery System: Describe the expected benefits to the Category A applicant's water delivery system. Address the following:

Clearly explain the anticipated water management benefits to the Category A applicant's water supply delivery system and water customers. Consider:

- Will the project result in more efficient management of the water supply?

The primary benefits of this project will be eliminating seepage loss in the 3000 N Lateral. Our measurements show that we are losing 4 acre feet per day in the 3000 N Lateral during the peak of the irrigation season. Over the full season the loss adds up to between 400 and 600 acre feet per year. Eliminating the seepage loss will prove beneficial from a water management standpoint. This lateral provides water to the Woodmancee Johnson Canal. In tight water years like 2021 and 2022 we were unable to deliver the desired flows to this lateral because of reduced natural flow availability and storage water allocations. We think this pipeline will go a long way to resolving these issues.

- Where any conserved water as a result of the project will go and how it will be used?

This water savings will be recognized in Island Park and Grassy Lake Reservoirs. Keeping water in these reservoirs will benefit all water users in the Upper Snake Reservoir system and help us be more resilient in potential subsequent drought years. Keeping water in the reservoirs will also benefit fish habitat in the Henry's Fork River. More water held in the reservoirs during the irrigation season directly results in higher winter flows in the river. These winter flows are critical for the Henry's Fork fishery.

Explain the significance of the anticipated water management benefits for the Category A applicant's water delivery system and customers. Consider:

- Are customers not currently getting their full water right at certain times of year?

In tight water years like 2021 and 2022 we were unable to deliver the desired flows to this lateral because of reduced natural flow availability and storage water allocations. We think this pipeline will go a long way to resolving these issues.

- Does this project have the potential to prevent lawsuits or water calls?

Yes, this project will result in a more efficient, timely and fair delivery of water to irrigators. As such it will prevent non-delivery lawsuits against TIMC.

- What are the consequences of not making the improvement?

If this project is not implemented TIMC will continue to manage water in an inefficient manner.

- Are customer water restrictions currently required?

Yes, in 2021 and 2022 TIMC received a reduced allocation of storage water.

- Other significant concerns that support the need for the project.

This project will eliminate bank erosion.

Broader Benefits: Describe the broader benefits that are expected to occur as a result of the project. Consider:

Will the project improve broader water supply reliability at sub-basin or basin scale?

This project will conserve our local water supply, making us more resilient in drought sequences. By reducing diversions during the irrigation season our water supply will become more sustainable locally in the Henrys Fork Watershed and will benefit the entire Upper Snake system.

- Will the proposed project increase collaboration and information sharing among water managers in the region? Please explain.

Not Directly

- Is the project in an area that is experiencing, or recently experienced, drought or water scarcity? Will the project help address drought conditions at the sub-basin or basin scale? Please explain.

The proposed project will specifically benefit the Henry's Fork Basin. It will also benefit the entire Upper Snake River System. This project will result in less water diversion from the river. This will allow us to stretch our water supply further into the growing season in drought years and provide additional water to carry over into subsequent drought years.

This project will allow us to keep more water in Island Park Reservoir, Grassy Lake Reservoir and Henry's Lake Reservoir during the irrigation season making them easier to fill each winter. Once these reservoirs are full, the excess water spills into American Falls Reservoir and fills it. This is one of the benefits to the entire Upper Snake System.

- Will the project benefit species (e.g., federally threatened or endangered, a federally recognized candidate species, a state listed species, or a species of particular recreational, or economic importance)? Please explain.

This project will result in reduced outflow from the reservoirs during the irrigation season, allowing for increased flows in the winter which will more closely mimic nature. This increased winter flow is critical for trout habitat. The Henry's Fork Foundation, which focuses on science-based collaboration for healthy fisheries and watersheds across the Upper Snake has stated that winter flows from Island Park Reservoir is the single most important part of a healthy fishery in the Henrys Fork.

- Will the proposed project positively impacts/benefit various sectors and economies within the applicable geographic area (e.g., impacts to agriculture, environment, recreation, and tourism)? Please explain.

Yes, this project will increase the water reliability for an irrigated agriculture economy that averages over 150 million in crop sales per year in Madison County, Idaho. In tough water years, projects like this are critical to stretch a limited water supply and produce as much food and fiber as possible.

- Will the project complement work being done in coordination with NRCS in the area (e.g., the area with a direct connection to the districts water supply)? Please explain.

This project will complement several on-farm water conservation projects NRCS has completed in are service area.

E.1.1. Evaluation Criterion B. Planning Efforts Supporting the Project (25 points)

Up to **25 points** may be awarded based on the extent to which the proposed on-the-ground project is supported by an applicant's existing water management plan, water conservation plan, System Optimization Review, or identified as part of another planning effort led by the Category A applicant. This criterion prioritizes projects that are identified through local planning efforts and meet local needs. Note: Project specific planning and design for the project or other phases of the project are considered in Criteria C – Implementation.

Plan Description and Objectives: Is your project supported by a specific planning document or effort? If so, describe the existing plan. When was the plan developed? What is the purpose and objective of the plan?

We receive storage water from and are a part of Fremont-Madison Irrigation District (FMID). In 2021 FMID completed a survey of the infrastructure needs within their irrigation district, which includes our canal company. This was done in preparation for the influx of infrastructure money. We wanted to be sure we took advantage of available funding. This project was included in that planning effort.

Plan Development: Who developed the planning effort? What is the geographic scope of the plan? If the planning effort was not developed by the Category A applicant, describe the Category A applicant's involvement in developing the planning effort.

FMID developed the plan in cooperations with canal companies within their district.

Support for the Project: Describe to what extend the proposed project is supported by the identified plan. Consider:

- Is the project identified specifically by name and location in the planning effort?

Yes, in January of 2021, FMID completed a survey of infrastructure needs for member canal companies. This project was identified as a project needed.

- Is this type of project identified in the planning effort?

Yes

- Explain whether the proposed project implement a goal, objective, or address a need or problem identified in the existing planning effort?

Yes, this project was identified as needed in a survey completed by FMID in 2021.

- Explain how the proposed project has been determined as a priority in the existing planning effort as opposed to other potential projects/measures.

This project was identified as a priority for two primary reasons. First, the inability to deliver water to the Woodmansee Johnson Canal in 2021 and 2022. Second, we are currently flooding out a neighboring potato storage facility.

E.1.2. Evaluation Criterion C. Implementation and Results (20 points)

Up to **20 points** may be awarded based upon the extent to which the applicant is capable of proceeding with the proposed project upon entering into a financial assistance agreement. Applicants that describe a detailed plan (e.g., estimated project schedule that shows the stages and duration of the proposed work, including major tasks, milestones, and dates) will receive the most points under this criterion.

- Describe the implementation plan for the proposed project. Please include an estimated project schedule that shows the stages and duration of the proposed work, including major tasks, milestones, and dates.

This project is simple and really doesn't have different stages. We included 60 days for installation, but in reality, this is likely a 2–3-day project for most construction companies.

The table below illustrates our ideal timeline if we receive the grant.

Teton Irrigation 3000 N Pipeline Installation	2024				2025											
Activity	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Contracting & Environmental																
Purchase Pipe																
Install Pipeline																

- Proposals with a budget and budget narrative that provide a reasonable explanation of project costs will be prioritized under this criterion.
- **Budget Narrative**
- ***Personnel***

TIMC has staff in place that will manage this project. This is a simple project and will not take excessive time for TIMC personnel.

- ***Fridge Benefits***

See above.

- ***Travel***

None

- ***Supplies***

None

- ***Equipment***

None

- ***Supplies***

None

- ***Contractual***

None

- ***Construction***

We obtained one quote for purposed of developing a grant application. If the project is funded, we will put the project out for bid and select the best combination of quality and price.

Budget Table 1

Construction Materials					
Identify any construction materials and non-movable equipment that will be purchased from a vendor. Include estimated purchase price, quantity, total cost, and the basis used to estimate the cost (published prices, quotes, previous project, etc.)					
Item	**Quantity**	**Unit Cost**	**Total Cost**	**Basis of Cost**	**Comments** (as needed)
EXAMPLE!!! 16" PVC pipe (lf)	3000	$20	**$3,600**	quote	
24" PVC 80psi	2480	$64	**$159,800**	Quote	Based on one quote, if this project is funded, we will put the project out for bid and select the best value of quality and price.
		Subtotal	**$159,800**		

- ***Other***

Cultural resource work is estimated at $15,000.00.

- ***Indirect Cost***

None

- **Budget Narrative Summary**

Budget Table 2

Summary Figures in this summary table are calculated from entries made in subsequent categories, only blank white cells require data entry.			
6. Budget Object Category	Total Cost	Federal Estimated Amount	Non-Federal Estimated Amount
a. Personnel	$0		
b. Fringe Benefits	$0		
c. Travel	$0		
d. Equipment	$0		
e. Supplies	$0		
f. Contractual	$0		
g. Construction	$159,800		
h. Other Direct Costs	$15,000		
i. Total Direct Costs	$174,800		
i. Indirect Charges	$0		
Total Costs	$174,800	$87,400	$87,400
	Cost Share Percentage	50%	50%

- Describe any permits and agency approvals that will be required along with the process and timeframe for obtaining such permits or approvals.

None

- Identify and describe any engineering or design work performed specifically in support of the proposed project. What level of engineering design is the project currently? If additional design is required, describe the planned process and timeline for completing the design.

No additional engineering will be required for this project.

Does the applicant have access to the land or water source where the project is located? Has the applicant obtained any easements that are required for the project? If the applicant does not yet have permission to access the project location, describe the process and timeframe for obtaining such permission.

The landowner is also the president of the TIMC.

- Identify whether the applicant has contacted the local Reclamation office to discuss the potential environmental and cultural resource compliance requirements for the project and the associated costs. Has a line item been included in the budget for costs associated with compliance? If a contractor will need to complete some of the compliance activities, separate line items should be included in the budget for Reclamation's costs and the contractor's costs.

Yes we have, this was the comments provided from Reclamation:
Teton piping: piping of canals can either be a no adverse or adverse effect depending on the eligibility of the canal and level of canal. From the map you provided it appears that the section to be piped is a secondary or tertiary lateral of the canal system. If it is a secondary level and the canal is eligible, then the project would result in an adverse effect, which would require mitigation. If it is a tertiary level canal then it would not qualify as an eligible section of the canal system and piping would result in a no adverse effect requiring only consultation, but no mitigation.

If any of the projects result in a finding of adverse effects a contingency budget of $15,000 to cover the cost of mitigation is not unreasonable. The mitigation could be contracted through Reclamation though since we would have more time to set up contracts etc. once the project had its agreement document, so it's up to you if you want to put it in.

Based on these comments we included a line item for $15,000. Hopefully we won't need it but thought we should include it just in case.

E.1.3. Evaluation Criterion D. Nexus to Reclamation (5 Points)

Up to **5 points** may be awarded based on the extent that the proposal demonstrates a nexus between the proposed project and a Reclamation project or activity. Describe the nexus between the proposed project and a Reclamation project or activity, including:

Is the proposed project connected to a Reclamation project or activity?
If so, how? Please consider the following:

- Does the applicant have a water service, repayment, or operations and maintenance (O&M) contract with Reclamation?

Not directly, however TIMC holds storage water through FMID who is contracted with Reclamation for the storage water in Island Park and Grassy Lake Reservoirs. FMID is also contracted with Reclamation for the operations and maintenance of Island Park and Grassy Lake Reservoirs.

- If the applicant is not a Reclamation contractor, does the applicant receive Reclamation water through a Reclamation contractor or by any other contractual means?

TIMC receives storage water from FMID who is a Reclamation contractor.

- Will the proposed work benefit a Reclamation Project area or activity?

Yes, the reservoirs that will benefit from this project are a Reclamation project.

E.1.4. Evaluation Criteria E. Presidential and Department of the Interior Priorities (15 points)

Up to **15 points** may be awarded based on the extent that the project demonstrates support for the Biden-Harris Administration's priorities, including E.O. 14008: *Tackling the Climate Crisis at Home and Abroad* and E.O. 13985: *Advancing Racial Equity and Support for Underserved Communities Through the Federal Government*, and the President's memorandum, *Tribal Consultation and Strengthening Nation-to Nation Relationships*. Points will be allocated based on the degree to which the project supports the priorities listed, and whether the connection to the priority(ies) is well supported in the application. Only address the sub-criterion that are relevant to your project.

E.1.4.1. Sub-criterion No. E1. Climate Change

Points will be awarded based on the extent the project will reduce climate pollution; increase resilience to the impacts of climate change; protect public health; and conserve our lands, waters, oceans, and biodiversity. Address the following as relevant to your project.

Combating the Climate Crisis: E.O. 14008: *Tackling the Climate Crisis at Home and Abroad*, focuses on increasing resilience to climate change and supporting climate- resilient development. For additional information on the impacts of climate change throughout the western United States, see: www.usbr.gov/climate/ secure/docs/2021secure/2021SECUREReport.pdf. Please describe how the project will address climate change, including the following:

- Please provide specific details and examples on how the project will address the impacts of climate change and help combat the climate crisis.

This project helps us address climate change by being more efficient with our available water supply which is being reduced by climate change.

- Does this proposed project strengthen water supply sustainability to increase resilience to climate change? Does the proposed project contribute to climate change resiliency in other ways not described above?

Same as above.

E.1.4.2. Sub-criterion No. E2. Disadvantaged or Underserved Communities

E.O. 14008 and E.O. 13985 affirm the advancement of environmental justice and equity for all through the development and funding of programs to invest in disadvantaged or underserved communities. For the purpose of this criterion, Tribes and insular areas (Guam, American Samoa, the Northern Mariana Islands, and the Virgin Islands) are considered disadvantaged.

- Please use the White House Council on Environmental Quality's interactive Climate and Economic Justice Screening Tool, available online at Explore the map – Climate & Economic Justice Screening Tool (https://screeningtool.geoplatform.gov) to identify any disadvantaged communities that will benefit from your project.

This project does not serve an area that has been identified as disadvantaged.

- If applicable, describe how the project benefits those disadvantaged or underserved communities identified using the tool. For example, does the project increase reliability of water supplies, improve water quality, provide economic growth opportunities, improve or expand public access to natural areas or recreation, or provide other benefits in a disadvantaged or underserved community?

E.1.4.3. Sub-criterion No. E3. Tribal Benefits

Points will be awarded based on the extent to which the Project will honor the Federal government's commitments to Tribal Nations. The Department of the Interior is committed to strengthening Tribal sovereignty and the fulfillment of Federal Tribal trust responsibilities. The President's memorandum, "Tribal Consultation and Strengthening Nation-to-Nation Relationships," asserts the importance of honoring the Federal government's commitments to Tribal Nations.

- Does the proposed project directly serve and/or benefit a Tribe? Will the project improve water management for a Tribe?

The project does not directly impact water management for a Tribe.

- Does the proposed project support Tribal resilience to climate change and drought impacts or provide other Tribal benefits such as improved public health and safety by addressing water quality, new water supplies, or economic growth opportunities?

Not Directly

- Does the proposed project support Reclamation's Tribal trust responsibilities or a Reclamation activity with a Tribe?
-

This project has general benefits to water supply in the Upper Snake River Reservoir System. This could improve water available for flow augmentation as a part of the Snake River Water Rights Agreement with the Nez Perce Tribe.

Section H. Other Information

The following is a brief overview of NEPA, NHPA, and ESA. This information is only relevant to proposals that include measurement, monitoring, and field work. While these statutes are not the only environmental laws that may apply, they are the Federal laws that most frequently do apply. Compliance with all applicable environmental laws will be initiated by Reclamation concurrently, immediately following the initial recommendation to award a financial assistance agreement under this NOFO. The descriptions below are intended to provide you with information about the environmental compliance issues that may apply to your projects.

To allow Reclamation to assess the probable environmental and cultural resources impacts and costs associated with each application, all applicants should consider the following list of questions focusing on the NEPA, ESA, and NHPA requirements. Please answer the following questions to the best of your knowledge. If any question is not applicable to the project, please explain why. The application should include the answers to:

- Will the proposed project impact the surrounding environment (e.g., soil [dust], air, water [quality and quantity], animal habitat)? Please briefly describe all earth-disturbing work and any work that will affect the air, water, or animal habitat in the project area. Please also explain the impacts of such work on the surrounding environment and any steps that could be taken to minimize the impacts.

There will be earthwork in previously disturbed areas to set the foundation for the new control gate.

- Are you aware of any species listed or proposed to be listed as a Federal threatened or endangered species, or designated critical habitat in the project area? If so, would they be affected by any activities associated with the proposed project?

No, we are not aware of any species or critical habitat in the project area.

This project will have no negative impact on any species. This project will result in more constant flows in the rivers. It will also hold additional water in Island Park reservoir during the irrigation season. This will result in additional water that can be released during the winter when it is critical for trout survival.

The project will result in more consistent flows in the Henry's Fork, benefiting wildlife.

- Are there wetlands or other surface waters inside the project boundaries that potentially fall under CWA jurisdiction as "Waters of the United States"? If so, please describe and estimate any impacts the proposed project may have.

No, there is no impact to wetlands.

- When was the water delivery system constructed?

TIMC was constructed in 1884.

- Will the proposed project result in any modification of or effects to, individual features of an irrigation system (e.g., headgates, canals, or flumes)? If so, state when those features were constructed and describe the nature and timing of any extensive alterations or modifications to those features completed previously.

No

- Are any buildings, structures, or features in the irrigation district listed or eligible for listing on the National Register of Historic Places? *A cultural resources specialist at your local Reclamation office or the State Historic Preservation Office can assist in answering this question.*

No

H.1. Environmental and Cultural Resource Considerations

- Are there any known archeological sites in the proposed project area?

No

- Will the proposed project have a disproportionately high and adverse effect on low income or minority populations?

No, any impact on these types of populations would be positive.

- Will the proposed project limit access to, and ceremonial use of, Indian sacred sites or result in other impacts on tribal lands?

No

- Will the proposed project contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area?

No

Sams information

We have been working diligently to get our SAMS information done. We have provided documents to SAMS.gov to show our start date. So far, they have not accepted our documentation. We will get this to you as soon as possible. We are working back and forth with them now.

Our case number is INC-GSAFSD9893248

We hope to send you the UEI prior to the close of the funding opportunity.

Teton Irrigating & Manufacturing
Official Resolution 2024-01

In the matter of the proposed WaterSMART application to United States Bureau of Reclamation (Reclamation) to convert from earthen ditch to pipeline for the 3000 North Lateral.

WHEREAS, Reclamation's Small-Scale Water Efficiency Grants provide funding to non-federal entities to implement actions to increase water supply reliability through investments in existing infrastructure; and

WHEREAS, Reclamation requires that Small-Scale Water Efficiency Grant applicant adopt a resolution verifying (I) the identity of the official with legal authority to enter into agreement, (2) the board of directors, governing body, or appropriate official who has reviewed and supports the application submitted, (3) the capability of the applicant to provide the amount of funding and/or in-kind contributions specified in the funding plan, and (4) that the applicant will work with Reclamation to meet established deadlines for entering into a cooperative agreement; and

WHEREAS, TIMC desires to apply for a Small-Scale Water Efficiency Grant to assist the company convert the 3000 N Lateral from earthen ditch to pipeline, a project designed to improve water use efficiency; and

WHEREAS, The TIMC Board of Directors have reviewed the WaterSmart Grant proposal and supports the grant application; and

NOW, THEREFOR, BE IT RESOLVED that TIMC authorizes application to Reclamation for a WaterSMART grant and authorizes Dan Nedrow, President to enter into an agreement with Reclamation for the WaterSMART grant; and

FURTHER IT BE RESOLVED, that TIMC recognizes that Dan Nedrow, president will represent TIMC as its legal entity in the cooperative agreement; and

FURTHER IT BE RESOLVED, that TIMC agrees to the WaterSmart funds and will work cooperative with Reclamation to meet established deadlines for entering into a cooperative agreement; and

FURTHER IT BE RESOLVED, that TIMC shall provide the non-federal portion of the project costs.

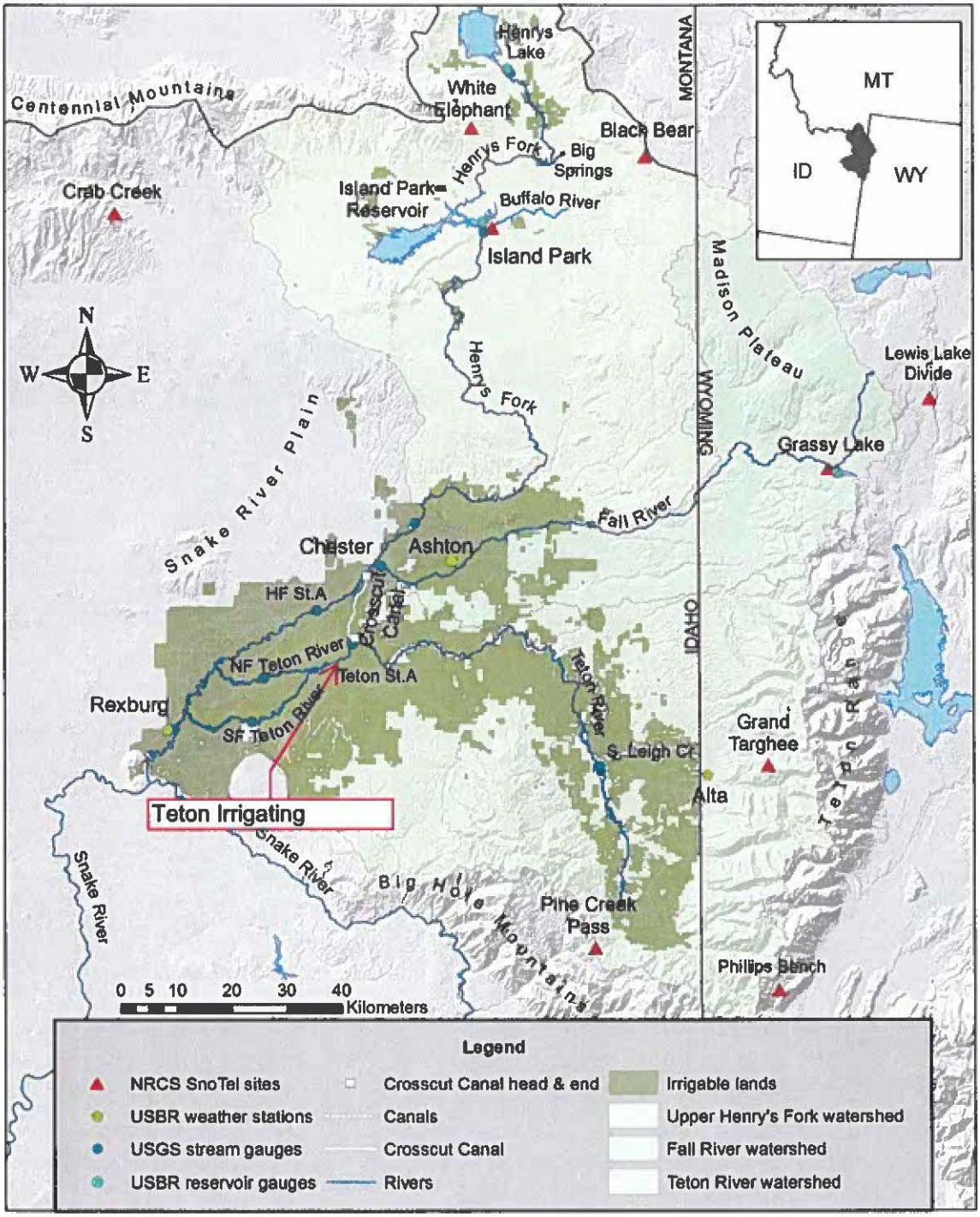
Dated this ___ day of January, 2024

Teton Irrigating & Manufacturing Company

By: Dan Nedrow, President

Attachment A

Location Map



Teton Irrigating Canal