

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
September 21-22, 2016
Agenda Item 19(l)

Applicant & Fiscal Agent: Orchard Ranch Ditch Company

Water Activity Name: Orchard Ranch Ditch Company Pipe Project

Water Activity Purpose: Agricultural & Nonconsumptive/Implementation

County: Delta

Drainage Basin: Gunnison

Water Source: Surface Creek

Amount Requested/Source of Funds: \$25,000 Gunnison Basin Account
\$25,000 Statewide Account
\$50,000 Total Grant Request

Matching Funds: Basin Account Match (\$25,000) = 50% of total grant request (meets 5% min);
Applicant/3rd Party Match (\$1,380,721) = 2,761% of total grant request (meets 5% min);
Basin & Applicant/3rd Party Match (\$1,405,721) = 2,811% of total grant request (meets 25% min);.
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:

Staff recommends approval of up to \$25,000 from the Gunnison Basin Account; and \$25,000 from the Statewide Account to help fund the project titled: Orchard Ranch Ditch Company Pipe Project.

Water Activity Summary: The ORDC project entails changing 10,800 feet of main canal and laterals to a pressurized pipe delivery system for irrigation water owned by the stockholders. The project included all aspects of feasibility, engineering design, construction and wildlife habitat replacement. The main objective of the project will be to eliminate water loss, due to seepage lessening liability issues encountered with an open ditch and eliminating salt load of approximately 1,000 tons per year from the Gunnison River. It will also decrease the amount of selenium entering the river. The company has qualified for a US Bureau of Reclamation grant. The turnouts from the pipe will be designed to deliver water at pressures suitable for furrow irrigation and to be convertible to deliver water under pressure as farmers convert to sprinkler irrigation. Water will be measured using meters and flumes.

Discussion: This project has been identified in the Gunnison Basin Implementation Plan and has been ranked as a #3 priority for ditches in the Surface Creek area with a Tier 1 rating.

Issues/Additional Needs: No issues or additional needs have been identified.

Threshold and Evaluation Criteria:

The application meets all four Threshold Criteria.

Tier 1-3 Evaluation Criteria:

This activity has undergone review and evaluation and staff has determined that it satisfies the Evaluation Criteria. Please refer to WSR Application for applicant's detailed response.

Funding Summary/Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
USBOR	\$1,280,721	\$0	\$1,280,721
Orchard Ranch Dutch Company (Exist CWCB Loan)	\$100,000	\$0	\$100,000
Subtotal Matching Funds	\$1,380,721	\$0	\$1,380,721
WSRA Gunnison Basin Account	\$25,000	n/a	\$25,000
WSRA Statewide Account	\$25,000	n/a	\$25,000
Total Project Costs	\$1,430,721	\$0	\$1,430,721

CWCB Project Manager: Finance Section

All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and will help promote the development of a common technical platform. In accordance with the revised WSR Criteria and Guidelines, staff would like to highlight additional reporting and final deliverable requirements. The specific requirements are provided below.

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the scope of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

Engineering: All engineering work (as defined in the Engineers Practice Act (§12-25-102(10) C.R.S.)) performed under this grant shall be performed by or under the responsible charge of professional engineer licensed by the State of Colorado to practice Engineering.

*The Gunnison Basin Roundtable
501 Palmer Street
Delta, CO 81416*

April 6, 2016

Mr. Craig Godbout
Water Supply Management Section
COLORADO WATER CONSERVATION BOARD
1313 Sherman St., Room 718
Denver, CO 80203

Re: WSRA Grant Request: Orchard Ranch Ditch Company – Orchard Ranch Ditch Pipe Project

Dear Mr. Godbout:

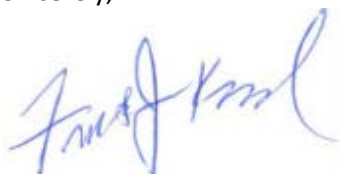
A WSRA grant application was submitted by the Orchard Ranch Ditch Company for \$25,000 from Basin Account funds and \$25,000 in Statewide Account funds from the Water Supply Reserve Account for the Orchard Ranch Ditch Pipe project. This application was reviewed by the Gunnison Basin Roundtable and its Project Screening Committee and was approved by a unanimous vote of the Gunnison Basin Roundtable during our meeting on April 4, 2016.

This water activity meets the provisions of Section 37-75-104(2), Colorado Revised Statutes. The requirements/language from the statute is provided in Part 3 of the Criteria and Guidelines.

The primary purpose of this project is agricultural irrigation water supply. Nearly 90% of this project will be funded by a USBR grant for salt reduction in the Colorado River basin. Other funding sources include a grant from the Colorado River Water Conservation District and a loan from the Colorado Water Conservation Board.

Thank you for your help in processing this WSRA grant request.

Sincerely,

A handwritten signature in blue ink, appearing to read "Frank J. Kugel".

Frank J. Kugel
Vice Chair

cc: Hugh Sanburg (e-mail)
Tom Alvey (e-mail)
Brent Newman (e-mail)



COLORADO WATER CONSERVATION BOARD



WATER SUPPLY RESERVE ACCOUNT APPLICATION FORM

Today's Date: 01-10-2016

Orchard Ranch Ditch Company Pipe Project

Name of Water Activity/Project

Orchard Ranch Ditch Company

Name of Applicant

Gunnison Basin
Roundtable

Amount from Statewide Account:

25,000.00

Amount from Basin Account(s):

25,000.00

Total WSRA Funds Requested:

50,000.00

Approving Basin Roundtable(s)

(If multiple basins specify amounts in parentheses.)

FEIN# 84-1493409

Application Content

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Required Exhibits

- A. Statement of Work, Budget, and Schedule
- B. Project Map
- C. As Needed (i.e. letters of support, photos, maps, etc.)

Appendices – Reference Material

- 1. Program Information
- 2. Insurance Requirements
- 3. WSRA Standard Contract Information (Required for Projects Over \$100,000)
- 4. W-9 Form (Required for All Projects Prior to Contracting)

Instructions

To receive funding from the Water Supply Reserve Account (WSRA), a proposed water activity must be approved by the local Basin Roundtable **AND** the Colorado Water Conservation Board (CWCBC). The process for Basin Roundtable consideration and approval is outlined in materials in Appendix 1.

Once approved by the local Basin Roundtable, the applicant should submit this application **with a detailed statement of work including budget and schedule as Exhibit A** to CWCBC staff by the application deadline.

WSRA applications are due with the roundtable letter of support 60 calendar days prior to the bi-monthly Board meeting at which it will be considered. Board meetings are held in January, March, May, July, September, and November. Meeting details, including scheduled dates, agendas, etc. are posted on the CWCBC website at: <http://cwcb.state.co.us> Applications to the WSRA Basin Account are considered at every board meeting, while applications to the WSRA Statewide Account are only considered at the March and September board meetings.

When completing this application, the applicant should refer to the WSRA Criteria and Guidelines available at: <http://cwcb.state.co.us/LoansGrants/water-supply-reserve-account-grants/Documents/WSRACriteriaGuidelines.pdf>. In addition, the applicant should also refer to the [Supplemental Scoring Matrix](#) applied to Evaluation Criteria Tiers 1-3 for Statewide Account requests .

The application, statement of work, budget, and schedule **must be submitted in electronic format** (Microsoft Word or text-enabled PDF are preferred) and can be emailed or mailed on a disk to:

Craig Godbout - WSRA Application
Colorado Water Conservation Board
1313 Sherman St., Room 721
Denver, CO 80203
Craig.godbout@state.co.us

If you have questions or need additional assistance, please contact Craig Godbout at: 303-866-3441 x3210 or craig.godbout@state.co.us.

Part I. - Description of the Applicant (Project Sponsor or Owner);

1.	Applicant Name(s):	Orchard Ranch Ditch Company		
	Mailing address:	PO Box 104 Eckert, CO 81418		
	FEIN #:	84-1493409		
	Primary Contact:	Robert E. Morris	Position/Title:	President
	Email:	rmr@redmountainranches.com		
	Phone Numbers:	Cell: 970-234-3805	Office:	970-856-3803
	Alternate Contact:	Paul Kehmeier	Position/Title:	Vice President
	Email:	Paul-Kehmeier@msn.com		
	Phone Numbers:	Cell: 970-779-0723	Office:	970-835-3004

2. Eligible entities for WSRA funds include the following. What type of entity is the Applicant?

- ☐ Public (Government) – municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities and the local entity should be the grant recipient. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.
- ☐ Public (Districts) – authorities, Title 32/special districts, (conservancy, conservation, and irrigation districts), and water activity enterprises.
- ☒ Private Incorporated – mutual ditch companies, homeowners associations, corporations.
- ☐ Private individuals, partnerships, and sole proprietors are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
- ☐ Non-governmental organizations – broadly defined as any organization that is not part of the government.

3. Provide a brief description of your organization

The Orchard Ranch Ditch Company was formed in 1910 and incorporated on 08-20-1915. The company has 17,280 Shares and at present there are 42 stockholders. The company has a board of three directors. The ditch company serves approximately 350 acres of crops including alfalfa, pasture land, small grain, fruit orchards and three (3) housing subdivisions. A ditch rider is employed to administer flows. The company administers decree flows and also reservoir water owned by individual stockholders.

4. If the Contracting Entity is different then the Applicant (Project Sponsor or Owner) please describe the Contracting Entity here.
Non Applicable

5. Successful applicants will have to execute a contract with the CWCB prior to beginning work on the portion of the project funded by the WSRA grant. In order to expedite the contracting process the CWCB has established a standard contract with provisions the applicant must adhere to. A link to this standard contract is included in Appendix 3. Please review this contract and check the appropriate box.

☒ The Applicant will be able to contract with the CWCB using the Standard Contract (ORDC has applied for and received a CWCB loan.)

☐ The Applicant has reviewed the standard contract and has some questions/issues/concerns. Please be aware that any deviation from the standard contract could result in a significant delay between grant approval and the funds being available.

6. The Tax Payer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect the applicant.
Tabor does not affect mutual ditch companies.

Part II. - Description of the Water Activity/Project

1. What is the primary purpose of this grant application? (Please check only one)

☒ Nonconsumptive (Environmental or Recreational)

☒ Agricultural

☐ Municipal/Industrial

☐ Needs Assessment

☐ Education

☐ Other

Explain:

2. If you feel this project addresses multiple purposes please explain.

This project serves agriculture and three subdivisions. It will save lost water and greatly reduce the company's liabilities associated with an open ditch. A pressurized pipe will be installed. It will allow users the option of using sprinklers. The project will keep approximately 1000 tons of salt from entering the Colorado River each year. (USBR estimate) The area served by the piping project has selenium and it is likely the project will decrease the amount of selenium entering the Gunnison River. Selenium causes negative impact on endangered native fish in the river. This project helps protect two decrees granted by the State of Colorado prior to 1922 by ensuring their continued use by the Orchard Ranch Ditch Company.

3. Is this project primarily a study or implementation of a water activity/project? (Please check only one)

☐ Study

☒ Implementation

4. To catalog measurable results achieved with WSRA funds can you provide any of the following numbers?

New Storage Created (acre-feet)

New Annual Water Supplies Developed, Consumptive or Nonconsumptive (acre-feet)

Existing Storage Preserved or Enhanced (acre-feet)

Length of Stream Restored or Protected (linear feet)

10,800 Length of Pipe/Canal Built or Improved (linear feet)

154 AF Efficiency Savings (acre-feet/year OR dollars/year – **circle one**)

Area of Restored or Preserved Habitat (acres)

Other -- Explain:

4. To help us map WSRA projects please include a map (Exhibit B) and provide the general coordinates below:

Latitude:

38.846224

Longitude:

-107.962384

5) Please provide an overview/summary of the proposed water activity (no more than one page). Include a description of the overall water activity and specifically what the WSRA funding will be used for. A full **Statement of Work** with a detailed budget and schedule is required as **Exhibit A** of this application.

The ORDC project entails changing 10,800 feet of main canal and laterals to a pressurized pipe delivery system for irrigation water owned by the stockholders. The project included all aspects of feasibility, engineering design, construction and wildlife habitat replacement. The main objective of the project will be to eliminate water loss, due to seepage lessening liability issues encountered with an open ditch and eliminating salt load of approximately 1000 tons per year from the Gunnison River. It will also decrease the amount of selenium entering the river. The company applied to the US Bureau of Reclamation in 2012 but was rejected because our salt load costs were too high. The company applied again in 2015. The directors and stockholders agreed that to be more competitive we would need to put in some funds of our own in the form of a CWCB loan of \$150,000.00. We have received approval by the Bureau of Reclamation and the stockholders approved applying for a CWCB loan. However, the loan repayment will double the yearly assessments for a span of 30 years. This will place a strain on most shareholders. The board of directors has agrees to seek a package of grants to diminish the burden on the shareholders

WSRA funding would be used to pay for 3.49% of the actual pipeline installation or a total of 50,000. The ditch company is currently in the contracting phase for the Bureau of Reclamation grant of \$1,281,000 which has been approved for this project.

Part III. – Threshold and Evaluation Criteria

1. Describe how the water activity meets these **Threshold Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines.)

a) The water activity is consistent with Section 37-75-102 Colorado Revised Statutes.¹
This project does not change or transfer any water rights. Piping the ditch will allow stockholders to receive their full allotment with no loss of water due to seepage.

b) The water activity underwent an evaluation and approval process and was approved by the Basin Roundtable (BRT) and the application includes a description of the results of the BRT's evaluation and approval of the activity. At a minimum, the description must include the level of agreement reached by the roundtable, including any minority opinion(s) if there was not general agreement for the activity. The description must also include reasons why general agreement was not reached (if it was not), including who opposed the activity and why they opposed it. Note- If this information is included in the letter from the roundtable chair simply reference that letter.

Pending final Round Table review. The Round Table gave the project a tier 1 rating in 2015.

¹ 37-75-102. Water rights - protections. (1) It is the policy of the General Assembly that the current system of allocating water within Colorado shall not be superseded, abrogated, or otherwise impaired by this article. Nothing in this article shall be interpreted to repeal or in any manner amend the existing water rights adjudication system. The General Assembly affirms the state constitution's recognition of water rights as a private usufructuary property right, and this article is not intended to restrict the ability of the holder of a water right to use or to dispose of that water right in any manner permitted under Colorado law. (2) The General Assembly affirms the protections for contractual and property rights recognized by the contract and takings protections under the state constitution and related statutes. This article shall not be implemented in any way that would diminish, impair, or cause injury to any property or contractual right created by intergovernmental agreements, contracts, stipulations among parties to water cases, terms and conditions in water decrees, or any other similar document related to the allocation or use of water. This article shall not be construed to supersede, abrogate, or cause injury to vested water rights or decreed conditional water rights. The General Assembly affirms that this article does not impair, limit, or otherwise affect the rights of persons or entities to enter into agreements, contracts, or memoranda of understanding with other persons or entities relating to the appropriation, movement, or use of water under other provisions of law.

- c) The water activity meets the provisions of Section 37-75-104(2), Colorado Revised Statutes.² The Basin Roundtable Chairs shall include in their approval letters for particular WSRA grant applications a description of how the water activity will assist in meeting the water supply needs identified in the basin roundtable's consumptive and/or non-consumptive needs assessments.

This project will result in a change of consumptive use, as past lost water will be available for irrigation. This project will provide for continued appropriation and beneficial use in Colorado of Senior decrees. It will aid in meeting the needs of agriculture in the state. The water saved from the main canal seepage will be consumed on the fields and consumptive use will indeed increase.

- d) Matching Requirement: For requests from the Statewide Fund, the applicants will be required to demonstrate a **25 percent** (or greater) match of the total grant request from the other sources, including by not limited to Basin Funds. A minimum match of 5% of the total grant amount shall be from Basin funds. A minimum match of 5% of the total grant amount must come from the applicant or 3rd party sources. Sources of matching funds include but are not limited to Basin Funds, in-kind services, funding from other sources, and/or direct cash match. Past expenditures directly related to the project may be considered as matching funds if the expenditures occurred within 9 months of the date the contract or purchase order between the applicant and the State of Colorado is executed. Please describe the source(s) of matching funds. (NOTE: These matching funds should also be reflected in your Detailed Budget in **Exhibit A** of this application)

WSRA Funds---	50,000—	3.49 %	Applied for
Colo River Dist-	25,000—	1.7%	Applied for
USBR Funds---	1,280,721—	89.5%	Obtained
ORDC-----	75,000-----	5.24%	CWCB Loan
Total=	1,430,721		

² 37-75-104 (2)(c). Using data and information from the Statewide Water Supply Initiative and other appropriate sources and in cooperation with the on-going Statewide Water Supply Initiative, develop a basin-wide consumptive and nonconsumptive water supply needs assessment, conduct an analysis of available unappropriated waters within the basin, and propose projects or methods, both structural and nonstructural, for meeting those needs and utilizing those unappropriated waters where appropriate. Basin Roundtables shall actively seek the input and advice of affected local governments, water providers, and other interested stakeholders and persons in establishing its needs assessment, and shall propose projects or methods for meeting those needs. Recommendations from this assessment shall be forwarded to the Interbasin Compact Committee and other basin roundtables for analysis and consideration after the General Assembly has approved the Interbasin Compact Charter.

2. For Applications that include a request for funds from the **Statewide Account**, describe how the water activity/project meets all applicable **Evaluation Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines and repeated below.) Projects will be assessed on how well they meet the Evaluation Criteria. **Please attach additional pages as necessary.**

Continued: Explanation of how the water activity/project meets all applicable **Evaluation Criteria**.
Please attach additional pages as necessary.

Tier 1

- A) Project will serve agriculture and stockholder yard needs.
- B) ORCD is the applying entity. The project will greatly reduce salt load in the Colorado River.
- C) The project has been addressed in Gunnison Round Table's water needs assessment. The Gunnison Round Table has ranked the project as #3 in priority for ditches in the Surface Creek area with a tier 1 rating.

Tier 2

- D) Funding from WSRA is needed to offset some of the loan. The company is committed to the project and is committed to timely repayment of a CWCB loan that has been approved, but loan repayment will be less burdensome to the shareholders if funding from the WSRA is granted.
- E) Matching funding—The Company has performed one feasibility study and spent many documentable hours in pursuit of funding. The Bureau of Reclamation funds will provide 89.5% of needed money.

Tier3

- F) Project would sustain agriculture and meets environmental needs. No recreation is involved.
- G) Project aids in administration of pre compact waters. It will promote maximum utilization and availability of state waters.
- H) No known threatened or endangered species, however a survey will be conducted as part of a USBR required Environmental Assessment.
- I) Project would benefit Colorado by enabling serviced acreage to remain in agriculture.
- J) CWCB will be involved via a loan.

Part IV. – Required Supporting Material

1. **Water Rights, Availability, and Sustainability** – This information is needed to assess the viability of the water project or activity. Please provide a description of the water supply source to be utilized, or the water body to be affected by, the water activity. This should include a description of applicable water rights, and water rights issues, and the name/location of water bodies affected by the water activity.

ORDC uses water from Surface Creek of the Gunnison River in Eckert Colorado. There are no water right issues.

<u>Decree#</u>	<u>Adjudication date</u>	<u>Approp date</u>	<u>Amt CFS</u>	
4(c.a.0038)	6-17-1989	2-21-1883	5.7CFS	The ORDC transports an average of 2204 AF/YR
27(c.a.0457)	9-28-1907	6-17-1889	6.45CFS	1782 is decree
K46(c.a.4808)	1-31-1964	6-1-1920	<u>10CFS</u>	422 is reservoir
			22.15CFS	Div. 4, Dist. 40
				Div. of water Resources

2. Please provide a brief narrative of any related studies or permitting issues.

A feasibility study was performed in 2012 by Harward Engineering in conjunction with a funding application to USBR to reduce the salt load. This was not eligible for funding. Another study was done in 2015 by JUB Engineers and was approved for funding by the Bureau of Reclamation.

There are no permitting issues.

3. Statement of Work, Detailed Budget, and Project Schedule

The statement of work will form the basis for the contract between the Applicant and the State of Colorado. In short, the Applicant is agreeing to undertake the work for the compensation outlined in the statement of work and budget, and in return, the State of Colorado is receiving the deliverables/products specified. **Please note that costs incurred prior to execution of a contract or purchase order are not subject to reimbursement.** All WSRA funds are disbursed on a reimbursement basis after review invoices and appropriate backup material.

Please provide a detailed statement of work using the template in Exhibit A. Additional sections or modifications may be included as necessary. Please define all acronyms and include page numbers.

REPORTING AND FINAL DELIVERABLE

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the statement of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

PAYMENT

Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for individual tasks and the entire water activity in relation to the percentage of budget spent, identification of any major issues and proposed or implemented corrective actions. The last 10 percent of the entire water activity budget will be withheld until final project/water activity documentation is completed. All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and help promote the development of a common technical platform.

Water Supply Reserve Account – Application Form

Revised October 2013

The above statements are true to the best of my knowledge:

Signature of Applicant: Robert E. Morris

Robert E. Morris

Print Applicant's Name: Orchard Ranch Ditch Company

Project Title: Orchard Ranch Ditch Company Pipe Project

Date: 12-29-15

Return an electronic version (hardcopy may also be submitted) of this application to:

Craig Godbout – WSRA Application
Colorado Water Conservation Board
1313 Sherman St., Room 721
Denver, CO 80203
303-866-3441, ext. 3210 (office)
303-547-8061 (cell)
craig.godbout@state.co.us

Exhibit A
Orchard Ranch Ditch Company
Piping Project

Statement of Work:

The project is located near Eckert, Colorado on the south of The Grand Mesa. See attached for a map showing the general location of the project. The project is being done in conjunction with the USBR Colorado River Salinity Program. It will put the Orchard Ranch Ditch and portions of several laterals into underground pipe. Approximately 10,800 feet of earthen ditch will be replaced by pipe. A wildlife habitat replacement area will be constructed.

The Orchard Ranch Ditch currently serves about 350 acres of farmland. Historically 450 acres were farmed. The main crops are hay, pasture, small grain and orchard. The Ditch Company owns three natural stream flow decrees out of Surface Creek. The ditch also delivers storage water from reservoirs on The Grand Mesa which are owned by various shareholders in the ditch company. In total the ditch delivers approximately 2204 acre feet of water annually to about 42 shareholders.

Scope of Work

Technical Aspects of the project:

The project will replace approximately 10,800 feet of earthen ditch with HDPE pipe. A pressurized system will be installed. In some parts of the project multiple pipes will be laid side by side. Approximately 16,500 feet of pipe will be placed in the 10,800 feet of trench. The multiple pipe system is being installed to help manage the fluctuation in water flows the ditch routinely experiences. The goal is to handle as much as possible of the fluctuation in one pipe and keep the water flow in the other two pipes relatively steady. A regulating reservoir at the head of the pipe was deemed unfeasible from a financial and liability standpoint. See attached for a map of the pipe layout.

The turnouts from the pipe will be designed to deliver water at pressures suitable for furrow irrigation and to be convertible to deliver water under pressure as farmers convert to sprinkler irrigation. Water will be measured using meters and flumes.

The screening structure at the head of the piping system will be made of concrete and have a headgate and a Coanda screen with a capacity of 22-25cfs.

The Orchard Ranch Ditch Company has engaged the services of J-U-B Engineering to do this project.

The project will comply with all applicable Federal and State regulations including environmental and cultural regulations.

Project Schedule:

The project is expected to start in March 2016. Design, NEPA compliance and cultural resources studies will be done during spring and summer of 2016. The Project installation and wildlife habitat replacement to begin in fall of 2016. The project is expected to be completed by June 30, 2017.

See attached for a detailed Construction and Funding Schedule.

Financial Aspects and Budget:

The project is budgeted for cost approximately \$1,430,720. The ditch company is currently in the contracting phase with the U.S. Bureau of Reclamation for a grant of \$1,280,720 which the Bureau has approved for the project under the Colorado River Salinity Program. The Bureau grant will cover 89.5% of the cost of the project. The ditch company is responsible to pay 10.5% (\$150,000) of the project. The shareholders have voted to pay the \$150,000 through increases in yearly assessments. However, the loan repayments will double the yearly assessments for 30 years. This will place a strain on most shareholders. The ditch company board of directors has agreed to seek a package of grants to diminish the burden on the shareholders. The shareholders currently are assessed an annual amount of approximately \$0.40 per share for operations. This amount times 17,280 shares equals \$6,912 for ditch operations. This comes to \$7.75 per CFS of water. (Decree water 891 CFS) The additional expense of a CWCB loan would equal approximately \$0.40 per share for 30 years. This would double the cost of our decree water, making irrigation water more expensive for agriculture.

See attached for a detailed budget of the project.

Funding Breakdown:

USBR-----\$1,280,721----89.5%

ORDC----\$ 150,000---10.5%

ORDC 10.5% is comprised of the following:

WSRA funds @ 50,000= 3.49% Applied for

Co River Dist. @ 25,000= 1.7% Applied for

ORDC @ 75,000=5.24% CWCB loan in process

150,000=10.5%

Grant funds would be used as a portion of the 10.5% funded by ORDC.

Insurance:

ORDC does carry a \$1,000,000 liability insurance policy. The ORDC does carry worker's compensation insurance. These can be provided upon request.

APPENDIX B: DETAILED BUDGET - Orchard Ranch Ditch Piping Project

	Units	Number of Units	Cost	Number of Units * Cost	Salinity Program Funding	Other Funding	Basis of Cost Estimates
PROJECT DESIGN				\$ 95,779.53	\$ 95,779.53		8% of Construction
NEPA COMPLIANCE AND CULTURAL RESOURCES				\$ 23,944.88	\$ 23,944.88		2% of Construction
OWNER ADMINISTRATION				\$ -	\$ -		Basis = Eden Valley Irrigation & Drainage District - 2012 Lower West Side Piping Project (R09AP40880)
SUBTOTAL				\$ 119,724.41	\$ 119,724.41	\$ -	
Mobilization	LS	1	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00		6% of Construction - Basis = Eden Valley Irrigation & Drainage District - 2012 Lower West Side Piping Project (R09AP40880)
Screening Structure	LS	1	\$100,000.00	\$ 100,000.00	\$ 100,000.00		Average Bid - 2014 Forked Tongue Piping Project + Inflation 3% to 2017
24" HDPE DR 41 PIPE	LF	4220	\$ 51.45	\$ 217,138.69	\$ 217,138.69		Average Bid - Sheep Creek South Valley Piping Project (R13AC40015) + Inflation 3% to 2017
18" HDPE DR 32.5 PIPE	LF	2100	\$ 41.96	\$ 88,105.92	\$ 88,105.92		Average Bid - 2014 Roger's Mesa Water Distribution Association - Slack Piping Project (R13AC40003) + Inflation 3% to 2017
16" HDPE DR 32.5 PIPE	LF	5020	\$ 40.11	\$ 201,338.14	\$ 201,338.14		Average Bid - 2014 Roger's Mesa Water Distribution Association - Patterson Piping Project (R13AC40003) + Inflation 3% to 2017
14" HDPE DR 32.5 PIPE	LF	1860	\$ 32.99	\$ 61,354.21	\$ 61,354.21		Average Bid - 2014 Roger's Mesa Water Distribution Association - Patterson Piping Project (R13AC40003) + Inflation 3% to 2017
12" HDPE DR 32.5 PIPE	LF	1820	\$ 28.34	\$ 51,576.13	\$ 51,576.13		Average Bid - 2014 Roger's Mesa Water Distribution Association - Slack Piping Project (R13AC40003) + Inflation 3% to 2017
6" HDPE DR 32.5 PIPE	LF	1350	\$ 14.86	\$ 20,061.00	\$ 20,061.00		Average Bid - 2014 Roger's Mesa Water Distribution Association - Slack Piping Project (R13AC40003) + Inflation 3% to 2017
Fittings	LS	1	\$ 60,000.00	\$ 60,000.00	\$ 60,000.00		10% of Pipe Costs
Meters	EA	11	\$ 7,000.00	\$ 77,000.00	\$ 77,000.00		Average Bid - 2014 Forked Tongue Piping Project + Inflation 3% to 2017
Turnouts	EA	11	\$ 12,000.00	\$ 132,000.00	\$ 132,000.00		Average Bid - 2014 Forked Tongue Piping Project + Inflation 3% to 2017
Easements	LS	1	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00		Average Bid - 2012 Sheep Creek Cedar Hollow Piping Project + Inflation 3% to 2017
Fill Ditch	LF	16370	\$ 2.00	\$ 32,740.00	\$ 32,740.00		Average Bid - 2012 Sheep Creek Cedar Hollow Piping Project + Inflation 3% to 2017
Remove and Replace Fencing	LF	200	\$ 7.00	\$ 1,400.00	\$ 1,400.00		Average Bid - 2012 Sheep Creek Cedar Hollow Piping Project + Inflation 3% to 2017
Imported Fill	CY	4900	\$ 15.00	\$ 73,500.00	\$ 44,781.97	\$ 28,718.03	Average Bid - 2014 Roger's Mesa Water Distribution Association - Patterson Piping Project (R13AC40003) + Inflation 3% to 2017
Reseeding	LF	13530	\$ 1.00	\$ 13,530.00		\$ 13,530.00	Average Bid - 2012 Sheep Creek Cedar Hollow Piping Project + Inflation 3% to 2017
Road Crossings	LF	150	\$ 50.00	\$ 7,500.00	\$ 7,500.00		Average Bid - 2012 Sheep Creek Cedar Hollow Piping Project + Inflation 3% to 2017
SUBTOTAL				\$ 1,197,244.09	\$ 1,154,996.06	\$ 42,248.03	
CONSTRUCTION MANAGEMENT				\$ 47,889.76		\$ 47,889.76	4% of Construction
SUBTOTAL				\$ 47,889.76	\$ -	\$ 47,889.76	
HABITAT REPLACEMENT				\$ 59,862.20		\$ 59,862.20	5% of Construction
A-133 AUDIT	EA	3	\$ 2,000.00	\$ 6,000.00	\$ 6,000.00		Eden Valley Irrigation & Drainage District - (R09AP40880)
SUBTOTAL				\$ 65,862.20	\$ 6,000.00	\$ 59,862.20	
TOTAL				\$ 1,430,720.47	\$ 1,280,720.47	\$ 150,000.00	

Orchard Ranch Piping Project

This budget and schedule is based on best estimates as of 09/05/16.

The piping project is currently in the design and permitting phase and is spending Bureau of Reclamation grant funds and CWCBC loan funds for those tasks. Actual construction is expected to begin in February 2017. Currently the expected end date for the project is June 1, 2018 rather than the December 2017 date shown on the WSRA application.

The budget and schedule shown below are based on costs and tasks expected to be remaining after Nov. 1, 2016 which is the expected date for the WSRA grants to be under contract if they are approved. Total project cost is \$1,430,721. Total project cost remaining on Nov 1, 2016 is expected to be \$1,325,364.

The Orchard Ranch Ditch Company is applying for \$25,000 from the Gunnison Basin Roundtable WSRF pool and \$25,000 from the Statewide WSRF pool.

The Orchard Ranch Ditch company has a CWCBC loan (CT2016-2795) for \$151,000.00 for this project and is currently drawing on these funds. If the WSRF grants are awarded, only \$100,000 will be drawn on the CWCBC loan. CWCBC participation in the project will remain at a total of \$150,000. (10% of total project cost)

Of the \$100,000 total to be drawn from the CWCBC loan \$89,464 is expected to be drawn after Nov. 1, 2016

Budget Nov 1, 2016, - June 1, 2018

Item	Description	WSRF Funding	CWCBC loan CT2016-2795 (\$89,464 will be drawn after Nov. 1, 2016)	Matching Funds (cash & in- kind)	Total Costs Nov 1, 2016 - June 1, 2018
Task 1	Complete the final 15% of project design	\$541.96	\$969.73	\$12,854.31	\$14,366.00
Task 2	Obtain and record easements	\$377.25	\$675.01	\$8,947.73	\$10,000.00
Task 3	Build the inlet and screening structure	\$3,772.54	\$6,750.14	\$89,477.32	\$100,000.00
Task 4	Install pipe and appurtenances	\$41,077.91	\$73,499.98	\$974,288.12	\$1,088,866.00
Task 5	Create the habitat mitigation area	\$2,258.32	\$4,040.77	\$53,562.91	\$59,862.00
Task 6	Fill in existing ditch and reseed disturbed area	\$1,745.55	\$3,123.29	\$41,401.16	\$46,270.00
Task 7	Perform required audits	\$226.35	\$405.01	\$5,368.64	\$6,000.00
		\$0.00	\$0.00	\$0.00	
Total Costs		\$49,999.89	\$89,463.93	\$1,185,900.19	\$1,325,364.00

Additional Information

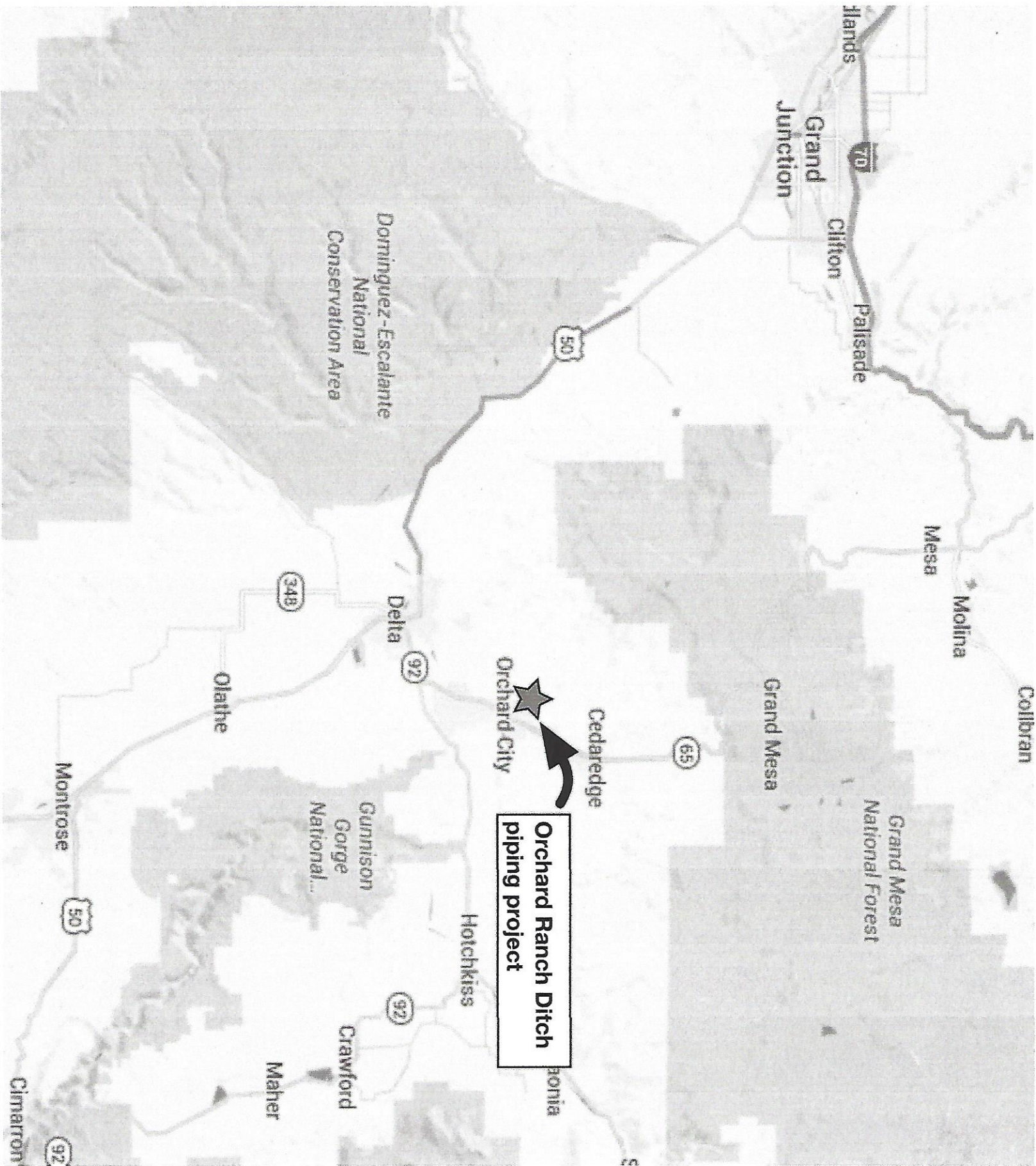
Total CWCBC funds used after Nov 1, 2016 (budget column 3 + budget column 4)	Total CWCBC funds used before Nov 1, 2016 (CWCBC loan)	Total CWCBC funds for the project
\$1,511.69		
\$1,052.27		
\$10,522.68		
\$114,577.88		
\$6,299.09		
\$4,868.84		
\$631.36		
\$0.00		
\$139,463.81	\$10,536	\$150,000

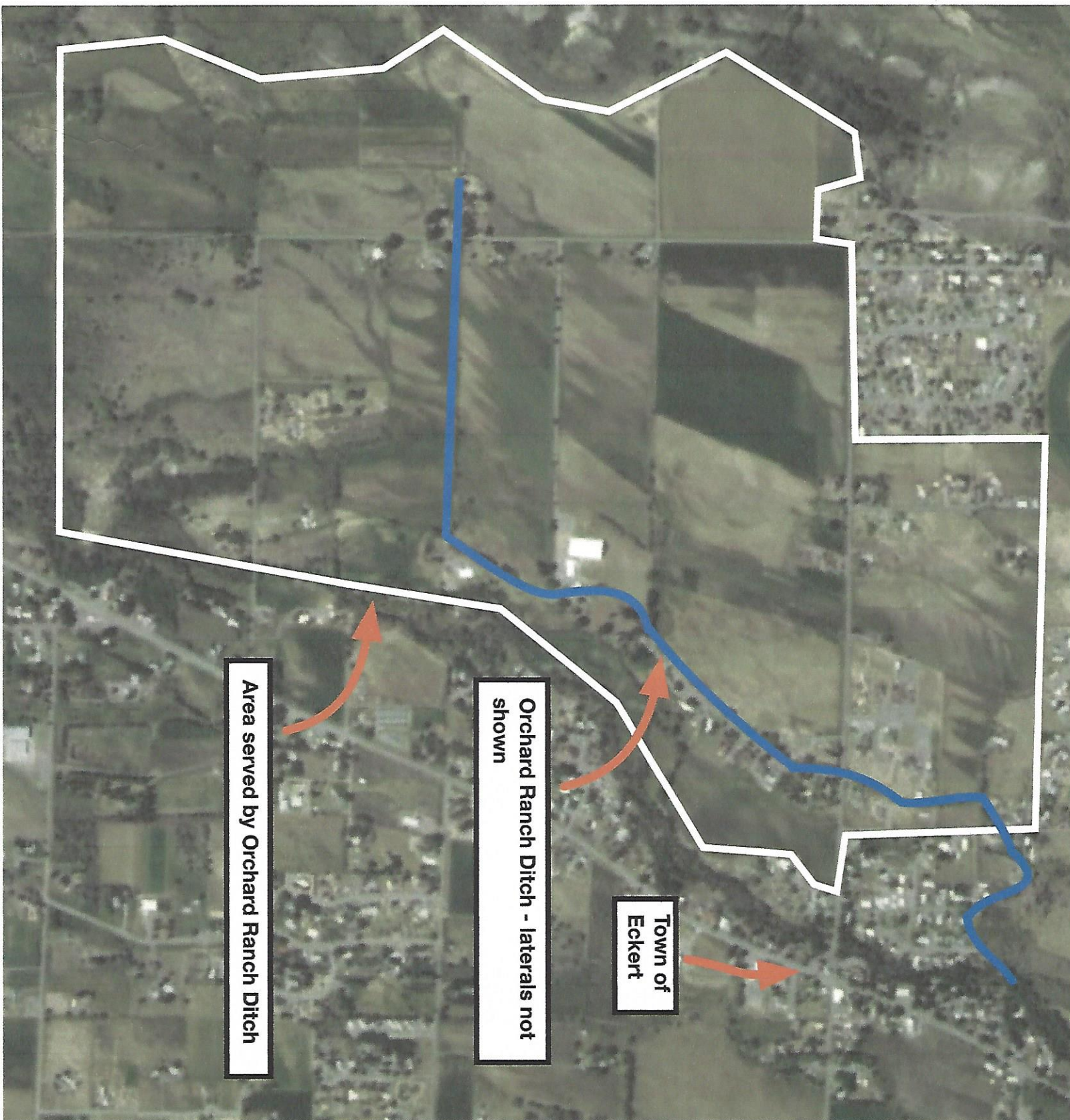
Note 1: Environmental permitting is expected to be completed before Nov 1, 2016 at a cost of \$23,945. This cost will be paid without using WSRF funding.

Note 2: 85% of project design is expected to be completed before Nov 1, 2016 at a cost of \$81,413. This 85% will be paid without using WSRF funding.

Schedule

Task	Start Date	End Date
1	November 1, 2016	February 1, 2017
2	November 1, 2016	February 1, 2017
3	February 1, 2017	April 1, 2017
4	September 1, 2017	June 1, 2018
5	February 1, 2017	June 1, 2018
6	March 1, 2018	June 1, 2018
7	January 1, 2017	June 1, 2018

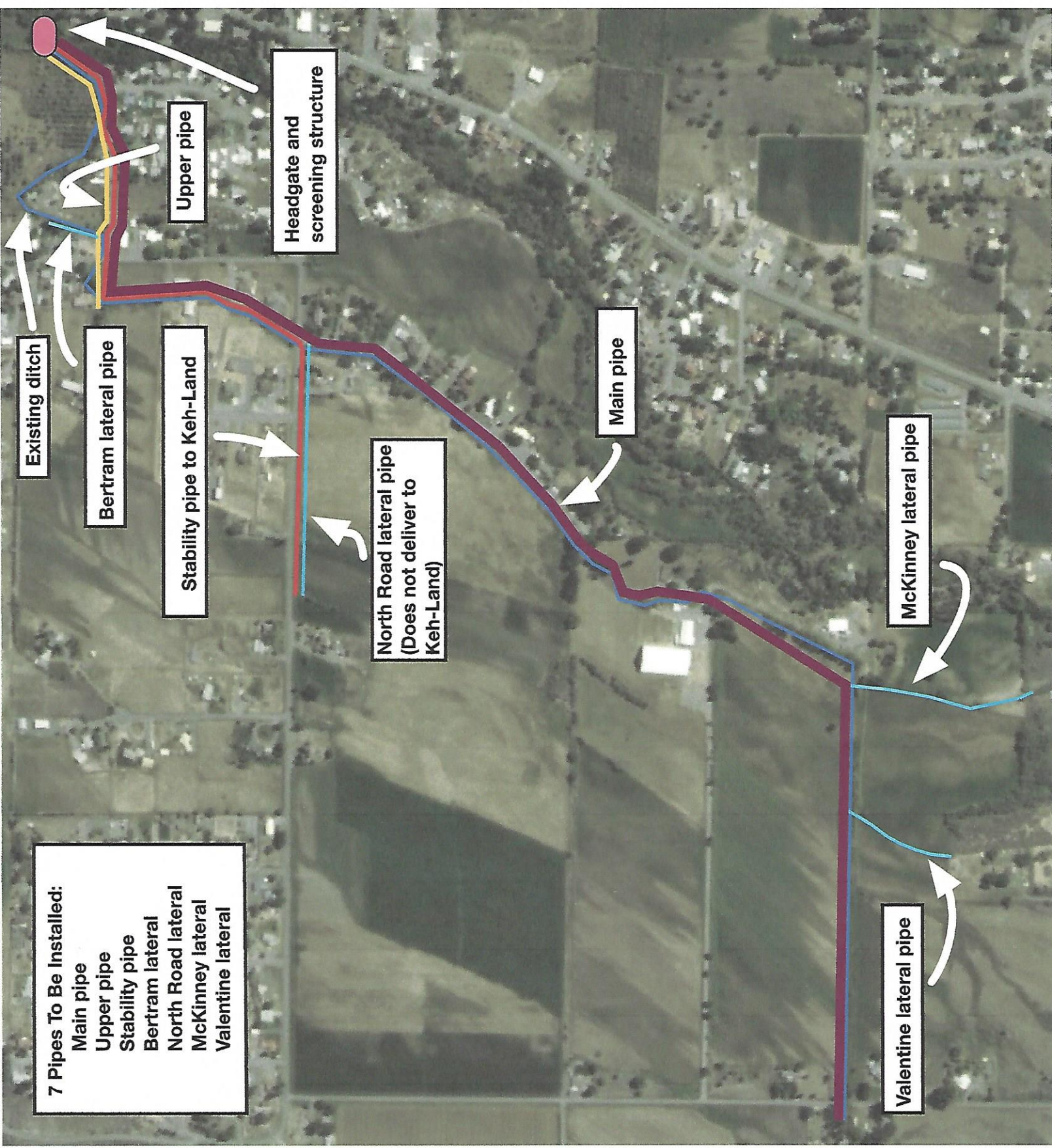




Area served by Orchard Ranch Ditch

Orchard Ranch Ditch - laterals not shown

Town of Eckert



7 Pipes To Be Installed:

- Main pipe
- Upper pipe
- Stability pipe
- Bertram lateral
- North Road lateral
- McKinney lateral
- Valentine lateral

Existing ditch

Bertram lateral pipe

Stability pipe to Keh-Land

North Road lateral pipe
(Does not deliver to
Keh-Land)

Main pipe

McKinney lateral pipe

Valentine lateral pipe

Headgate and
screening structure

Upper pipe