

City of Montrose  
Purchasing Division  
433 South First Street  
PO Box 790  
Montrose, CO 81402



# REQUEST FOR PROPOSALS

## Water Resource Inventory and Master Plan

**Issue Date:** June 8, 2022

**Bid Number:** 22-015

**Agent/Contact:** Scott Murphy

**Submissions Must Be Received by:** July 11, 2022 at 2:00 pm Colorado Time

### ADMINISTRATIVE INSTRUCTIONS

The City of Montrose is requesting proposals through the Request for Proposals (RFP) process to perform a comprehensive inventory of the City's water resources and prepare a water resources master plan. Proposals shall be submitted electronically to [bids@cityofmontrose.org](mailto:bids@cityofmontrose.org) and will be publicly received on July 11, 2022 2:00 PM through video conference at:

<https://tinyurl.com/MontroseWater> Late proposals will not be accepted and it is the responsibility of the proposers to ensure that bids (including signed addenda) arrive by 2:00 PM on the date listed above.

Complete bid packets can be downloaded from the City web page at [www.cityofmontrose.org](http://www.cityofmontrose.org) under Department Services, Purchasing, and Open Bids. Addenda will be posted to the website and it is the proposer's responsibility to download, review, sign, and include addenda with their proposal.

The City reserves the right to accept or reject any or all proposals, to waive irregularities and/or informalities and to disregard all non-conforming, non-responsive, unbalanced or conditional proposals. The City of Montrose complies with all Equal Opportunity requirements. All qualified proposers will receive consideration without regard to race, creed, color, national origin, sex, marital status, religion, ancestry, mental or physical handicap or age.

## **GENERAL TERMS AND CONDITIONS**

These General Terms and Conditions apply to all Offers made to the City of Montrose (hereafter "City") by all prospective vendors/proposers (herein after referred to as "Bidder") regarding City Solicitations including, but not limited to, Invitations to Bid, Requests for Proposals, Requests for Quotes, and Requests for Qualifications (hereafter "Solicitation" or Bid Solicitation).

### **A. CONTENTS OF BID**

1. Bidders shall thoroughly read the project requirements and specifications, and shall examine any drawings and documents which may be incorporated into the Bid documents. As Bid documents frequently change for each Solicitation, veteran Bidders shall not assume that this Solicitation contains the same terms and conditions that were supplied in prior Solicitations. The City is not obligated to identify either minimal or substantial modifications to Bid documents.
2. Bidders shall make all investigations necessary to thoroughly inform themselves regarding the plant and facilities affected by the delivery of services, materials, and equipment as required by the Bid conditions. No plea of ignorance by the Bidder of conditions that exist, or may hereafter exist, as a result of failure to fulfill the requirements of the contract documents, will be accepted as the basis for varying the requirements of the City or the compensation to the Bidder.
3. Bidders are advised that all City contracts are subject to all legal requirements contained in City Ordinances and State and Federal Statutes governing purchasing activities.
4. Bidders are required to state the exact intentions of their offer to the City via this Solicitation and must indicate any variances to the terms, conditions, and specifications of this Solicitation, no matter how slight. If variations are not stated in the Bidder's Offer, it shall be construed that the Bidder's Offer fully complies with all conditions identified in this Solicitation.

### **B. CLARIFICATION AND MODIFICATION OF BID SOLICITATION**

1. Apparent silence or omissions within this Bid Solicitation regarding a detailed description of the materials and services to be provided shall be interpreted to mean that only the best commercial practices are to prevail and that only materials and workmanship of first quality are to be used.
2. If any Bidder contemplating submitting a Proposal under this Solicitation is in doubt as to the true meaning of the specifications, the Bidder must submit a written e-mail request for clarification to the City's Agent/Contact. The Bidder submitting the request will be responsible for ensuring that the City receives the request at least seven (7) calendar days prior to the scheduled bid opening or as noted in the special conditions.
3. Any official interpretation of the Bid Solicitation must be issued in writing by the City's Agent/Contact who is authorized to act on behalf of the City, or by the City's Legal Department. The City shall not be responsible for other interpretations offered by employees of the City who are not authorized to act on behalf of the City for this project.

4. If necessary, the City may issue a written addendum to clarify or inform of substantial changes which impact the technical submission of Bids. Addenda will be posted to the website and it is the Bidder's responsibility to download addenda. The Bidder shall certify its receipt of the addendum by signing the addendum and returning it with its Bid. In the event of a conflict with the original Bid Solicitation documents, addenda shall supersede all other documents to the extent specified. Subsequent addenda shall govern over prior addenda only to the extent specified.

### **C. PRICING, COLLUSION, AND TAXES**

1. Current Prices. Bid Proposals must be fixed and firm unless stated otherwise in the Bid Solicitation.
2. Discounts. Discounts shall not be considered in determining the lowest net cost for Bid evaluation purposes. Payment terms shall be as set forth in any contract executed between the City and the Bidder. Payment by the City is deemed to be made on the date of the mailing of the check, or as otherwise set forth in any contract executed between the City and the Bidder.
3. Collusion. The Bidder, by affixing its signature to this Proposal, certifies that its Proposal is made without previous understanding, agreement, or connection either with any persons, or entities offering a Bid for the same items, or with the City. The Bidder also certifies that its Bid is in all respects fair, without outside control, collusion, fraud, or otherwise illegal action. To ensure integrity of the City's public procurement process, all Bidders are hereby placed on notice that any and all Bidders who falsify the certifications required in conjunction with this section shall be prosecuted to the fullest extent of the law.
4. It shall be understood and agreed that Bid Offers submitted by persons and entities are done so independently of any other offers, and that Bidders will not knowingly participate in solicitations where there exists a conflict of interest with their entity and a member of City staff or their immediate family.
5. Taxes. Bidders will neither include Federal, State, nor applicable Local excise or sales taxes in bid prices, as the City is exempt from payment of such taxes. The Colorado Department of Revenue, Certification of Exemption for Colorado State Sales/Use Tax account number for the City of Montrose is 98-01805-0000. An exemption certificate will be provided, where applicable, upon request.

### **D. PREPARATION AND SUBMISSION OF BID**

1. The Proposal must be typed or legibly printed in ink. The use of erasable ink is not permitted. All corrections made by the Bidder must be initialed in ink by the Bidder or its lawful agent.
2. Bid Proposals must contain a manual or electronic signature of an authorized agent of the Bidder in the space provided on the Bid Proposal Form. If the Bidder or its lawful agent fails to sign the Bid Proposal Form, its Bid shall be considered non-responsive and ineligible for award.

3. Unit prices shall be provided by the Bidder on the Bid Proposal Form when required in conjunction with the prescribed method of award. The Bidder shall enter "No Bid" for each item where a unit price will not be offered. Where there is a discrepancy between the unit price and the extension of prices, the unit price shall prevail.
4. All information and supplemental documentation required in conjunction with this Bid shall be furnished by the Bidder with its Bid Proposal. If the Bidder fails to supply any required information or documents, the city, in its sole discretion, may consider the Proposal non-responsive.
5. The accuracy of the Bid is the sole responsibility of the Bidder. No changes in the Proposal shall be allowed after the submission deadline, except when the Bidder can show clear and convincing evidence that an unintentional factual mistake was made, including the nature of the mistake and the price actually intended.
6. The City's Bid Proposal Form, when included with to this Bid Solicitation, must be used when the Bidder is submitting its Bid Proposal. The Bidder shall not alter this form unless instructed to do so in writing by the City. Failure to use the City's Bid Proposal Form may result in the Bid being considered non-responsive.
7. Bidders shall provide Proposal Forms, Statement of Work/Technical Offer Section, Special Conditions, Specifications and Pricing Form, and any other mandatory submittals with the bid.
8. Once bids have been opened, the City shall not consider any subsequent submissions of alternate terms and conditions.
9. Bid Bonds (5% of total bid price) and performance and payment bonds (100% of total bid price) are required on construction projects over \$50,000.
10. Insurance certificates are required after a Notice of Award has been issued. Costs for additional coverage must be accounted for in the Bidder's proposal cost.
11. Bid Proposals received after the submission due date and time prescribed for the solicitation shall not be considered.

#### **E. VENDOR APPLICATION AND RETENTION ON BIDDERS' LIST**

The City does not maintain a bidder's list. Register to receive an automated email notification of new bids by visiting [www.cityofmontrose.org](http://www.cityofmontrose.org) - Department Services - Purchasing – Bid Notification.

#### **F. MODIFICATION OR WITHDRAWAL OF LEGITIMATE OFFERS**

1. Bidder offers may be modified in the form of an official written notice, and must be received prior to the due time and date set forth in the Bid Solicitation. Each modification submitted must have the Bidder's name and return address and the applicable bid number and title clearly marked on

the face of the envelope. If more than one modification is submitted, the modification bearing the latest date of receipt by the City will be considered the valid modification.

2. Bids may be withdrawn prior to the due time and date set for the Solicitation, provided it is in the form of an official, authorized written request.
3. Proposals may not be modified or withdrawn after the due date and time set for the Bid opening for a period of ninety (90) calendar days. If a Bid Proposal is modified or withdrawn by the Bidder during this ninety (90) day period, the City may, at its option, place the Bidder on suspension and may not accept any further Bid Proposals from the Bidder for a period set by the City following the Bidder's modification or withdrawal of its Proposal. The City may reject an offer, in whole or in part, as set forth in the City of Montrose Municipal Code and the City's Procurement Manual.

#### **G. EVALUATION OF OFFERS**

1. Offers shall be evaluated based upon their responses to the questions and requests for information in this Bid Solicitation, and based upon whether and to what degree they comply with the instructions set forth herein. Thoroughness, accuracy, veracity, and professionalism in the responses shall be taken into account.
2. The City may, in its sole and absolute discretion:
  - a. Reject any and all, or parts of any or all, Bid Proposals submitted by prospective Bidders;
  - b. Re-advertise this Solicitation;
  - c. Postpone or cancel the Bid process for this Solicitation;
  - d. Waive any irregularities or technicalities in proposals received in conjunction with this Solicitation;
  - e. Determine the criteria and process whereby Proposals are evaluated and awarded.
3. A Proposal may not be accepted from, nor any contract be awarded to, any person or entity which is in arrears to the City upon any debt or Contract or which is in default as surety or otherwise upon any obligation to the City.
4. No Contract shall be awarded to any person or entity which has failed to perform faithfully any previous contract with the City, the State or Federal government for a minimum period of one (1) year after said previous Contract was terminated for cause.
5. A Proposal may not be accepted from, nor any Contract awarded to, any person or entity which has pending litigation against the City at the date and time of the Bid Opening.

#### **H. AWARD OF CONTRACT**

1. The City's Agent/Contact is authorized to handle initial contacts regarding any protest of the solicitation or award of a City contract, or any claim arising out of the performance of a City contract, with the City Manager's approval. Any actual or prospective Bidder or Contractor who

has a grievance in connection with the solicitation or award of a contract shall first seek resolution of the matter with the City's Agent/Contact.

2. If the City Manager or City designee does not, within thirty (30) days after receiving a protest, or within such longer period as may be agreed upon by the parties, issue a written decision on the protest or make a determination that award of the contract is necessary, the protest shall be considered denied.
3. By law, the City reserves the right to accept or reject any or all proposed bids, or any combination of them, and to waive any informality or irregularity in the bid or in the bidding.
4. Successful Bidders shall comply with all local, state, and federal directives, ordinances, rules, orders, and laws as applicable to, and affected by, the Bid Proposal.
5. No Bidder shall be excluded from consideration for award in conjunction with this solicitation on the basis of race, color, creed, national origination, handicap, or sex, or be subjected to discrimination under any contractual award administered by the City.

#### **I. CONTRACTUAL OBLIGATIONS**

1. In order to ensure the efficient utilization of tax dollars, successful Bidders shall comply with all contractual obligations contained in the Contract Documents, as set forth in the contract signed by the City and Bidder. A sample contract that Bidder will be expected to sign is supplied with these Bid Documents.

## **SPECIAL CONDITIONS**

### **A. PRE-BID CONFERENCE**

A pre-bid meeting will not be held for this project.

### **B. CONTACT PERSON**

During the course of this request process, from issuance until a recommendation for award, Bidders shall not initiate contact related to this request with anyone other than the officially designated individual:

For this bid the contact is Scott Murphy at (970) 901-1792 or email: [smurphy@cityofmontrose.org](mailto:smurphy@cityofmontrose.org)

Failure to abide by this requirement may result in disqualification from further participation in this process.

### **C. QUESTION DEADLINE**

All questions regarding this Request for Proposal shall be directed by email to the individual listed above.

The deadline for receipt of questions from Bidders in regards to this RFP is 6:00 PM on July 6, 2022.

Responses will be prepared by the City in an addendum and published on the City of Montrose web site at: [www.cityofmontrose.org](http://www.cityofmontrose.org) under Department Services, Purchasing, Open bids, and this bid name. The responses in writing are the only official answers.

### **D. SUBMITTAL INSTRUCTIONS**

The City desires to receive a clear, concise, economical presentation of the vendor's proposal. Bidders should submit the following by electronic mail to [bids@cityofmontrose.org](mailto:bids@cityofmontrose.org) by 2:00 PM on July 11, 2022. Please include the bid number and title in the subject of the email, proposer's name and address in the body of the email, and include the following attachments:

1. PDF of the signed bid packet proposal forms
2. PDF of the technical proposal/qualifications statement (see statement of work)
3. PDF of signed bid addenda

Failure to submit a proposal in the manner indicated may be cause for it to be considered 'non-responsive' and ineligible for consideration and subsequent award.

Proposals will be publicly received on July 11, 2022 2:00 PM through video conference at <https://tinyurl.com/MontroseWater>. Late proposals will not be accepted and it is the responsibility of the proposers to ensure that bids (including signed addenda) arrive by 2:00 PM on the date listed above. Please join using this link as results will be screen shared as they are opened. A call in number will also be provided when you join using this link should your computer not have audio capabilities.

## **PROPOSAL FORM - PAGE 1**

**SUBMITTED BY:**

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

**CERTIFICATION:** (if a Submission is Offered):

The undersigned hereby affirms that:

- He/she is a duly authorized agent of the Bidder;
- He/she has read the General Terms and Conditions, the Special Conditions and any technical specifications that were made available to the Bidder in conjunction with this Bid and fully understands and accepts these terms unless specific variations have been expressly listed on the Bid Proposal Form;
- The Submission is being offered independently of any other Bidder and in full compliance with the collusive prohibitions specified in the General Terms and Conditions of this solicitation; and
- The Bidder will accept any awards made to them as a result of this Solicitation for a minimum of ninety (90) calendar days following the date and time of the bid opening.

By: \_\_\_\_\_

Manual Signature of Agent

\_\_\_\_\_

Date

\_\_\_\_\_

Typed/Printed Name of Agent

\_\_\_\_\_

Title of Agent

Include Original with Submission

Affix Manual signature of authorized agent.



## PROPOSAL FORM - PAGE 2

**Company Name:** \_\_\_\_\_

**VARIATIONS:**

The Bidder shall identify all variations and exceptions taken to the General Terms and Conditions, the Special Conditions, and any Technical Specifications in the space provided below; provided, however, that such variations are not expressly prohibited in the Bid documents. For each variation listed, reference the applicable section of the bid document. If no variations are listed here, it is understood that the Bidder's Proposal fully complies with all terms and conditions. It is further understood that such variations may be cause for determining that the Bid Proposal is non-responsive and ineligible for award:

Page #: \_\_\_\_\_ Item # of Section: \_\_\_\_\_

Variance

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Page #: \_\_\_\_\_ Item # of Section: \_\_\_\_\_

Variance

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Variance

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## **STATEMENT OF WORK**

### **PART 1 – GENERAL ITEMS**

#### **1.1 PROJECT DESCRIPTION**

The City of Montrose is looking to hire a consultant to assist with research, analyses, and reporting associated with a comprehensive inventory and master plan for the City's water resources. The project's research, analyses, and summary report are expected to include the main elements outlined in Appendix A. The goals and desired outcomes for this project are as follows:

1. Utilize the inventory/master plan report for education of City Staff/Management, City Council, and the public regarding the City's water resource management.
2. Although the City currently has ample water resources available for the foreseeable future, we wish to make sure we are responsible stewards of this precious resource and manage water use responsibly as the City continues to grow. To that end, the inventory/master plan findings and report would be used to facilitate and guide responsible development, effective land-use water regulations, practical conservation programs, efficient City operations, and capital improvements to reduce consumptive use.
3. Understand if the City's existing water resources are enough to cover the anticipated urban buildout within the City's water district. Based on these data, identify the amount of conservation or water resource expansion that would be required to fully develop the City's water district and also understand if expansion of the water district is recommended as isolated expansion requests arise from time to time.
4. Understand risks to the City's water supply due to prolonged drought, a Colorado River compact call, local calls within the Uncompahgre watershed, climate change, and/or watershed damages (wildfire, spills, etc).
5. Develop Montrose as a local leader in responsible water resource management and ultimately serve as a resource to other communities looking to do the same.

It is envisioned that the final report for this effort would be co-authored between the selected consultant the City of Montrose.

The City currently has a webpage dedicated to water conservation at: <https://www.cityofmontrose.org/688/Water-Conservation> This page includes links to the City's water conservation plan, summaries of existing water conservation programs, and a video link to recent discussions with the Montrose City Council regarding our water resources. It should be noted that the City intends to update their water conservation plan following completion of this study.

## 1.2 BASE MAP DATA

The following base data are available for use in RFP and project development.

1. **Online GIS Maps.** Available at: <https://gis.cityofmontrose.org/montrosejs/> These maps include water district and land use/zoning information. Shape files for these GIS data will be made available to the selected consultant.
2. **GIS Utility Shapefiles.** Shape files for the City's utilities as currently mapped. The City makes no guarantee for the accuracy of these data. Available for download at:
  - a. <https://tinyurl.com/COMGISData>
3. **Regional LiDAR Aerial Survey Data.** The Colorado Water Conservation Board recently completed a regional aerial LiDAR topography survey of the Montrose Area. Data provided from these surveys are available for download online at <https://tinyurl.com/COMLiDAR> with additional discussion on methodology, accuracies, and limitations available in accompanying methodology reports within the folder.
4. **High-Resolution 2020 Aerial Photography.** Available for download at:
  - a. <https://tinyurl.com/COM2020Photo> These are georeferenced so they can be brought in at state plane.

## **PART 2 – SCOPES OF WORK**

### **2.1 DESIGN CONSULTANT**

#### **Current Scope**

Work in collaboration with the City of Montrose to prepare a comprehensive inventory and master plan for the City's water resources. The project's research, analyses, and summary report are expected to include the main elements outlined in Appendix A. The planning process would also include hosting of several public open house events and the creation of public surveys regarding water resources and conservation. The project's final deliverable will be the summary report co-authored with the City of Montrose.

Because this project is a collaborative effort with a relatively open-ended scope of work, the work would be performed on an as-needed time and materials basis. The City of Montrose has initially budgeted \$75k for this study.

#### **Future Phases**

Future phases of support from the selected consultant may include assistance with implementation of conservation programs, water resource expansion, or capital projects identified in the water resource master plan document. If implemented, these would be awarded as change orders to the original contract.

### **2.2 CITY OF MONTROSE**

Provide data necessary to complete the project to include AMI and other historic water usage data, GIS data, and historic files regarding the City's water resources. Assist with preparation of the project's final master plan report.

## **PART 3 – PROPOSAL FORMAT, SCHEDULE, AND SELECTION**

### **3.1 PROPOSAL FORMAT**

The technical proposal should include the following at a minimum:

- A list or organizational chart for personnel to be assigned to the project and discussions of each person's role.
- Resumes for key personnel to be assigned to the project.
- The proposed project schedule (see Section 3.3).
- A general summary of relevant experience performing similar work with references for each. Please focus this summary on work with western-state water resource issues and utilization of AMI and GIS data analyses tools as they relate to water resource planning.
- Identification of any additional major elements the proposer feels should be included in this project that were not listed in the Appendix A project outline.
- Proposed rate sheet for the consultant and any sub-consultants. Include standard markup for reimbursable expenses (travel, lodging, consumable supplies, etc), markup for sub-consultants, and standard per-diem rates.
- Any additional information the proposer feels would be useful to the review committee for evaluation of proposals.

### **3.2 SELECTION CRITERIA**

Proposals will be evaluated by the City of Montrose Engineering and Utilities Department by assigning a score between 0 and 4 in each of the weighted categories listed below. The highest score will be used as the basis for selection of the preferred consultant.

- Qualifications/Similar Project Experience: 40%
- Overall Presentation, Level of Detail, and Project Understanding: 30%
- Team Assigned to the Project/Proposed Sub-Consultants: 30%

### **3.3 PROJECT SCHEDULE**

The approximate project schedule is as follows:

- Bid Opening: July 11, 2022
- Anticipated Notice of Award: August 2, 2022
- Notice to Proceed: Several days following contract execution by consultant
- Water District Buildout Demand Projections (see Appendix A, Section 3.2): December 1, 2022
- Final Report: June 2023

**END OF SECTION**

**APPENDIX A**  
Research and Report Outline



**CITY OF MONTROSE**  
**WATER RESOURCE INVENTORY AND MASTER PLAN**  
**Research and Report Outline**  
**June 8, 2022**

Below is an outline of the anticipated elements to be included in the City's water resource inventory at a minimum. As the project progresses, this outline is expected to expand.

**1.0 WATER TREATMENT AND DISTRIBUTION HISTORY**

- a. Original diversions of Uncompahgre River water, wood pipe distribution system
- b. System prior to creation of Project 7 – generally independent providers
- c. Current-day water treatment and distribution (creation of Project 7 and current water districts)
- d. Current plans for second treatment plant near Ridgway

**2.0 WATER RESOURCE INVENTORY**

For each of the sources below discuss history of how acquired, partnerships/stakeholders in its use, quantity of water available, how utilized (primary source, backup source, water exchanges, etc), what used for (municipal vs. irrigation), infrastructure in place to utilize (hydraulic distribution/diversions or seasonal limitations, etc), limitations on use, etc.

- a. 10,000 AF in Ridgway, leased from Tri-County Water (operator of Ridgway Dam), water used by UVWUA, water right exchange with water from Gunnison. Discuss Dallas Creek project and how structured, pools of water available in Ridgway.
- b. 80 shares in the Cimarron Canal company. Use to fill Cerro Reservoir (720 AF). Limited by capacity of fill line, storage in Cerro, capacity of raw water line down Hwy 50. One share can produce 40 AF in a good year but can only divert surface flows – no storage water from Silver Jack available. Not able to utilize full potential. Harder to treat at treatment plant.
- c. Direct flow irrigation water rights. Summarize direct flow rights filed with State, locations, rates, alternate diversion location records. Primarily used for irrigation of parks. Evaluate old Gunnison water right currently on abandonment list. Summarize historic direct-diversion rights (old Uncompahgre River direct flow)
- d. Uncompahgre Valley Water Users Association Shares. Summarize share water, how used, identify which are not currently utilized.
- e. Rice Ditch Shares. Irrigation shares from the private Rice Ditch. Used to irrigate Taviwach Park. Little organization on the ditch. Summarize available shares, organizational structure, historic use.

**3.0 MUNICIPAL WATER USE**

**3.1 Historic Use**

- a. Compile total municipal water use by year over the past 20 years, plot alongside population estimates, plot alongside drought index, plot historical water use per capita. Use AMI and GIS tools as appropriate to analyze data.

**3.2 Projected Use**

- a. Utilize planning department, zoning/density information, GIS, and AMI tools to estimate a range of expected water demand at full buildout of City's water district. This would be analyzed several ways: based on typical use per capita, observed use per capita, and expected use per acre for a given zoning or land use. Compare to available water resources to identify expected shortage or surplus.

#### **4.0 PUBLIC OUTREACH**

Summarize results of public outreach efforts (open houses, social media surveys, etc) and feedback received from the public regarding the community's water resources.

#### **5.0 WATER RESOURCE PLANNING**

This section will focus on summarizing potential actions that can be taken to reduce demand/promote conservation and potentially expand available water supply. For each item discuss what implementation would entail, pros/cons, political implications, permitting implications, quantity of water that may be saved or made available, and potential costs as applicable. Ultimately looking to identify the cost-benefit and understand where to best focus conservation and expansion efforts.

##### **5.1 Reduce Demand/Promote Conservation**

- a. Land Use Policies. Identify land use policies that could be considered to reduce municipal demand on new development such as landscaping restrictions on non-essential turf, turf size limitations, mandatory separate irrigation systems for large-lot subdivisions, etc
- b. Conservation Programs. Turf buyback, graywater reuse, reclaimed wastewater re-use, low turf incentives, sprinkler timer replacement programs, etc
- c. Enforcement. Water waste program and regulations
- d. Educational Resources. Water-smart landscaping and irrigation resources, water conservation marketing and promotion initiatives
- e. City operational and capital considerations. Identify steps the City can take to reduce consumptive use. This would include items such as irrigation operational changes, irrigation system improvements, non-functional turf removal and replacement with desert landscaping, conversion of parks irrigated with treated water to irrigation water, etc. Want to spend a lot of focus here and create tangible plan for implementation over the next 10 to 15 years.

##### **5.2 Expand Water Resources**

- a. Feasibility of agricultural to municipal conversions. Not buy and dry but investigating if there is a way to keep unused agricultural water resources or shares here if not being used for agriculture anymore or as subdivisions occupy previously-irrigated land.
- b. Potential expansion of municipal water pool in Ridgway from BOR's discretionary pool.
- c. Evaluation of actions needed to better utilize Cimarron Canal company shares (improved transmission capacity, additional storage, etc).

#### **6.0 VULNERABILITY/RISK ASSESSMENT**

- a. Attempt to summarize vulnerability of water supply to shortage taking into consideration probability of early-season call on the river taking Ridgway's fill out of priority. Identify unique considerations that protect against this even though Ridgway's right is relatively junior.
- b. Vulnerability to wildfire or other watershed damages
- c. Recognition of basin-wide shortage on Colorado River and its potential implications on our water supply, especially if a call were placed on the River by the lower basin states.
- d. Quantify climate change's expected impact on water supply. Summary of impact on river yield, timing of runoff, reduction in yield per degree of average temperature rise, etc.