

**Water Supply Reserve Account – Grant and Loan Program**  
**Water Activity Summary Sheet**  
**July 15-16, 2015**  
**Agenda Item 18(a)**

**Co-Applicants:** Colorado River Water Conservation District and West Divide Water Conservancy District

**Fiscal Agent:** Colorado River Water Conservation District

**Water Activity Name:** Kendig Reservoir Feasibility Evaluations

**Water Activity Purpose:** Multi-Purpose (potential for M&I, Agriculture, Environmental & Recreational, Hydropower, Augmentation Supplies & Stock Water)

**County:** Garfield & Mesa

**River Basin:** Colorado

**Water Source:** West Divide Creek

**Amount Requested/Source of Funds:** \$40,000 Colorado Basin Account (total grant request)

**Matching Funds:** Applicant Match (\$20,000/cash) = 33.3% of total study costs  
(refer to *Funding Summary/Matching Funds* section)

<b>Staff Recommendation:</b>
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Staff recommends approval of up to \$40,000 from the Colorado Basin Account to help fund the study titled: Kendig Reservoir Feasibility Evaluations.
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**Water Activity Summary:** WSRA funds, if approved, would be expended to fund an evaluation of the development costs and potential operation of a Kendig Reservoir concept that is supplied solely by native gravity inflow from West Divide Creek. Two potential reservoir sites (Lower Kendig and Upper Kendig) will be examined to determine which most satisfactorily meets basin needs. The proposed reservoir sites will undergo evaluation because the distribution of annual flows does not coincide with the distribution of annual demand. The selected reservoir site would store the early summer peak flows which would allow late season irrigation demands to be met more frequently; thus, water shortages are reduced. The storage could also be used to supply non-irrigation demands including industrial, domestic, environmental, recreation, and hydropower generation. Preliminary estimates reflect that an average of over 12,000 acre feet of native storable inflow occurs at the site annually, although storable inflow may be 2,000 acre feet or less in critically dry years. It is anticipated that the development of a 5,000 to 15,000 acre foot reservoir at these sites may be appropriate given the amount of storable gravity inflow of West Divide Creek. Although a larger reservoir would provide additional carryover storage for supply in dry years, a smaller reservoir may be more cost effective. Additional study is required to identify optimal reservoir sites, sizes, potential reservoir operation, the firm yield of the reservoir, geotechnical issues and project costs.

**Discussion:** Kendig Reservoir has been identified in the Colorado Basin Implementation Plan as a Top Project in the Middle Colorado Region (Section 3, Table 18, page 131) satisfying 3 of the BIP's major themes (Theme 1: Ecosystem Health – Protect and Restore Streams, Rivers, Lakes and Riparian Areas; Theme 2: Agriculture – Sustain, Protect and Promote Agriculture; and Theme 3: Safe

Drinking Water - Secure and Protect Safe Drinking Water for Today and Tomorrow; Executive Summary, page 16).

**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:** n/a

**Funding Summary/Matching Funds:**

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
Colorado River Water Conservation District	\$10,000	\$0	\$10,000
West Divide Water Conservancy District	\$10,000	\$0	\$10,000
Total Match	\$20,000	\$0	\$20,000
Colorado WSRA Basin Account Grant	\$40,000	n/a	\$40,000
<b>Total Study Costs</b>	<b>\$60,000</b>	<b>\$0</b>	<b>\$60,000</b>

**CWCB Project Manager:** Brent Newman

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 WSRA 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 COLORADO BASIN ROUNDTABLE***  
***C/O P.O. BOX 1120***  
***GLENWOOD SPRINGS, COLORADO***  
***81602***

May 26, 2015

**Craig Godbout**  
**Colorado Water Conservation Board**  
**Water Supply Planning Section**  
1580 Logan Street, Suite 200  
Denver CO 80203  
 [\(303\) 866-3441, ext 3210](tel:3038663441) (office)  
 [\(970\) 218-9407](tel:9702189407) (cell)  
[craig.godbout@state.co.us](mailto:craig.godbout@state.co.us)

Dear Craig:

The Colorado Basin Roundtable voted unanimously at its May 18, 2015, meeting to approve the joint grant request by the West Divide Water Conservancy District and the Colorado River District for \$40,000 in Water Supply Reserve Account funds to assist the two districts in a study regarding development of Kendig Reservoir in the West Divide Drainage of Garfield County.

Kendig Reservoir holds a conditional right for 18,000 acre feet and is a surviving piece of the West Divide Project.

It was identified by the CBRT Basin Implementation Plan as one of the three middle river projects or processes that might best illustrate a solution to water demands in this region. This effort addresses two of the themes in the CBRT Basin Implementation Plan: Sustain Agriculture and Secure and Protect Safe Drinking Water. As well, it could support energy development.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Jim Pokrandt", with a long, sweeping horizontal stroke extending to the right.

Jim Pokrandt  
Chair, Colorado Basin Roundtable



# COLORADO WATER CONSERVATION BOARD



## WATER SUPPLY RESERVE ACCOUNT APPLICATION FORM

Today's Date: April 23, 2015

### Kendig Reservoir Feasibility Evaluations

Name of Water Activity/Project

Colorado River Water Conservation District and  
West Divide Water Conservancy District

Name of Applicant

Colorado Basin

Amount from Statewide Account:

\$0

Amount from Basin Account(s):

\$40,000

Total WSRA Funds Requested:

\$40,000

Approving Basin Roundtable(s)

(If multiple basins specify amounts in parentheses.)

FEIN:

### 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)

## Water Supply Reserve Account – Application Form

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### **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 (CWCB). 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 CWCB 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 CWCB 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](mailto: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](mailto:craig.godbout@state.co.us).

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

1.	Applicant Name(s):	Colorado River Water Conservation District (CRWCD) and West Divide Water Conservancy District (WDWCD)		
	Mailing address:	CRWCD: P.O. Box 1120, Glenwood Springs, CO 81602 WDWCD: P.O. Box 1478, Rifle, CO 81650		
	FEIN #:			
	Primary Contact:	John Currier	Position/Title:	Chief Engineer (CRWCD)
	Email:	jcurrier@crwcd.org		
	Phone Numbers:	Cell: (970) 366-6601	Office:	(970) 945-8522 ext. 237
	Alternate Contact:	Sam Potter	Position/Title:	President (WDWCD)
	Email:	samisbmo7@gmail.com		
	Phone Numbers:	Cell: (970) 309-3030	Office:	(970) 625-2192

### 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.

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### 3. Provide a brief description of your organization

The **Colorado River Water Conservation District** (River District) is a public water policy agency chartered by the Colorado General Assembly in 1937 to be “the appropriate agency for the conservation, use and development of the water resources of the Colorado River and its principal tributaries in Colorado.” The River District is the principal water policy and planning agency for the Colorado River Basin within the State of Colorado and provides legal, technical, and political representation regarding Colorado River issues for its constituents.

The district is comprised of 15 West Slope counties in which a majority of the Colorado River Basin in the State of Colorado exists. These counties are Moffat, Routt, Grand, Summit, Eagle, Pitkin, Gunnison, Delta, Mesa, Garfield, Rio Blanco, Ouray, and portions of Montrose, Saguache and Hinsdale. The River District covers approximately 29,000 square miles, roughly 28% of the land area of Colorado. The southernmost part of the Colorado River basin in Colorado that encompasses the San Juan River and its tributaries and the upper reaches of the Dolores River are not included within the Colorado River District.

The River District is governed by a Board of Directors. Each of the 15 counties appoints a representative. All policies, resolutions, budget actions and other major activities of the River District are approved by Board.

The **West Divide Water Conservancy District** (WDWCD), a Colorado governmental entity, was organized in 1964 for the purposes of conserving and developing land and water resources within its boundaries. The District includes portions of Garfield, Pitkin and Mesa Counties in Western Colorado.

A primary service of WDWCD is to provide water right augmentation supplies within the District’s Service Area for all beneficial uses, and to promote the health, safety and welfare of the public while providing such service. WDWCD has decreed several regional water right plans for augmentation that provide a legal supply of water to its constituents. WDWCD also delivers physical water supplies in certain geographical areas.

WDWCD has an approved Service Area which includes the Colorado River and Roaring Fork River corridors, Silt Mesa, Fourmile Creek, East Divide Creek, Rifle Creek and Elk Creek. The District offers several types of water service to help residents of its service area obtain a water supply including:

- Augmentation of individual, subdivision, commercial, and industrial wells
- Augmentation of irrigation use and pond evaporation
- Augmentation of direct hauling and pumping of water from local streams and rivers
- The delivery of water supplies from Alsbury Reservoir and Martin Alternate Reservoirs

The WDWCD is also involved in regional issues that affect its citizens. These issues include water supply planning associated with existing and future water demands within the District, and the monitoring and management of water quality.

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

The Contracting Entity is the **Colorado River Water Conservation District**.

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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

☐ 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.

There are no relevant TABOR issues that should have any effect on the Applicant.



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### 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: Hydropower, Augmentation Supplies, Stock Water

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

Provides a reliable water supply for domestic/municipal/industrial/stock uses, provides a water supply for unmet existing irrigation demands (approx. 14,000 acres), and provides hydropower generation, recreational and environmental uses.

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)

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

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

Area of Restored or Preserved Habitat (acres)

Other -- Explain: Value of increased agricultural production

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

Latitude:

39.3721626

Longitude:

-107.59343949999

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 Kendig Reservoir site is located in the West Divide Creek drainage, about 15 miles south of Silt, Colorado (**Exhibit B** attached). A conditional water storage right has been decreed for Kendig Reservoir in the amount of about 18,000 acre feet. The reservoir was originally contemplated by the Bureau of Reclamation as a component of the original West Divide Project and authorized by Congress in the Colorado River Storage Projects Act (CRSP) of 1956. Water in West Divide Creek is primarily used for irrigation of agricultural lands, industrial purposes related to natural gas development, stock watering and domestic uses.

The reservoir was previously proposed because the distribution of annual flows does not coincide with the distribution of annual demand. The reservoir would store the early summer peak flows which would allow late season irrigation demands to be met more frequently; thus, shortages are reduced and yields are improved. The storage could also be used to supply non-irrigation demands including industrial, domestic, environmental, recreation, and hydropower production. Kendig Reservoir is located at the original Kendig dam site proposed by the USBR (1966). The dam is located downstream of the Highline Ditch diversion, a major irrigation ditch in the West Divide Creek basin.

The co-Applicants (the Districts) plan to continue to evaluate the development of a Kendig Reservoir concept that is supplied solely by native gravity inflow from West Divide Creek. Preliminary estimates reflect that an annual average of over 12,000 acre feet of native storable inflow occurs at the site, although storable inflow may be 2,000 acre feet or less in critically dry years. We anticipate that the development of a 5,000 to 15,000 acre foot reservoir at this site may be appropriate given the amount of storable gravity inflow of West Divide Creek, although a larger reservoir would provide additional carryover storage for supply in dry years. A smaller reservoir may be more cost effective. Additional study is required to identify optimal reservoir sizes, potential reservoir operation, the firm yield of the reservoir, geotechnical issues and project costs.

The Co-Applicants are requesting \$40,000 from the Basin Account for the Kendig Reservoir Feasibility Evaluations, and this is the amount of money necessary to complete the entire feasibility study. The total cost of the study is \$60,000, with matching funds in the amount of \$10,000 committed to the study in cash from the CRWCD and \$10,000 committed to the study in cash from the WDWCD (for a total match of 50%).

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### 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.<sup>1</sup>

The water activity will be consistent with Section 37-75-102 Colorado Revised Statutes and will comply with the existing water rights adjudication system. The study does not supersede, abrogate or impair the current system of allocating water or affect existing water rights.

- 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 BRTs 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.

A presentation on the purpose and objectives of the study is planned for April 27, 2015 to the Colorado BRT members. The Colorado BRT will issue such a letter if and when the project is approved.

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<sup>1</sup> 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.

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- c) The water activity meets the provisions of Section 37-75-104(2), Colorado Revised Statutes.<sup>2</sup> 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.

A letter of support from the Colorado BRT Chair is requested at our presentation to the Colorado BRT meeting on April 27, 2015.

- 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)

This application requests \$40,000 from the Colorado Basin Account. A total of \$20,000 has been committed to this study in cash, which adequately covers the required matching funds required for this grant request of \$40,000.

West Divide Water Conservancy District	Cash	\$10,000
Colorado River Water Conservation District	Cash	<u>\$10,000</u>
<b>TOTAL MATCH</b>		<b>\$ 20,000 (50% match)</b>

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<sup>2</sup> 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.

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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.**

**Evaluation Criteria** – the following criteria will be utilized to further evaluate the merits of the water activity proposed for funding from the Statewide Account. In evaluation of proposed water activities, preference will be given to projects that meet one or more criteria from each of the three “tiers” or categories. Each “tier” is grouped in level of importance. For instance, projects that meet Tier 1 criteria will outweigh projects that only meet Tier 3 criteria. The applicant should also refer to the Supplemental Scoring Matrix applied to Evaluation Criteria Tiers 1-3 for Statewide Account requests. WSRA grant requests for projects that may qualify for loans through the CWCB loan program will receive preference in the Statewide Evaluation Criteria if the grant request is part of a CWCB loan/WSRA grant package. For these CWCB loan/WSRA grant packages, the applicant must have a CWCB loan/WSRA grant ratio of 1:1 or higher. Preference will be given to those with a higher loan/grant ratio.

### Tier 1: Promoting Collaboration/Cooperation and Meeting Water Management Goals and Identified Water Needs

- a. The water activity addresses multiple needs or issues, including consumptive and/or non-consumptive needs, or the needs and issues of multiple interests or multiple basins. This can be demonstrated by obtaining letters of support from other basin roundtables (in addition to an approval letter from the sponsoring basin).
- b. The number and types of entities represented in the application and the degree to which the activity will promote cooperation and collaboration among traditional consumptive water interests and/or non-consumptive interests, and if applicable, the degree to which the water activity is effective in addressing intrabasin or interbasin needs or issues.
- c. The water activity helps implement projects and processes identified as helping meet Colorado’s future water needs, and/or addresses the gap areas between available water supply and future need as identified in SWSI or a roundtable’s basin-wide water needs assessment.

### Tier 2: Facilitating Water Activity Implementation

- d. Funding from this Account will reduce the uncertainty that the water activity will be implemented. For this criterion the applicant should discuss how receiving funding from the Account will make a significant difference in the implementation of the water activity (i.e., how will receiving funding enable the water activity to move forward or the inability obtaining funding elsewhere).
- e. The amount of matching funds provided by the applicant via direct contributions, demonstrable in-kind contributions, and/or other sources demonstrates a significant & appropriate commitment to the project.

### Tier 3: The Water Activity Addresses Other Issues of Statewide Value and Maximizes Benefits

- f. The water activity helps sustain agriculture & open space, or meets environmental or recreational needs.
- g. The water activity assists in the administration of compact-entitled waters or addresses problems related to compact entitled waters and compact compliance and the degree to which the activity promotes maximum utilization of state waters.
- h. The water activity assists in the recovery of threatened and endangered wildlife species or Colorado State species of concern.

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- i. The water activity provides a high level of benefit to Colorado in relationship to the amount of funds requested.
- j. The water activity is complimentary to or assists in the implementation of other CWCB programs.

Continued: Explanation of how the water activity/project meets all applicable **Evaluation Criteria**.

**Please attach additional pages as necessary.**

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### 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.

The Kendig Reservoir site is located in the West Divide Creek drainage, about 15 miles south of Silt, Colorado. Kendig Reservoir was originally contemplated to store 18,060 acre feet\* of native West Divide Creek water in addition to water conveyed from the Crystal River. The Crystal River as a source of water supply has been abandoned and is not contemplated by the Project.

West Divide Creek is tributary to the Colorado River and subject to a call by a group of senior irrigation water rights near Grand Junction collectively known as the Cameo Call. In addition to the Cameo Call, Kendig Reservoir would also be subject to many downstream senior irrigation ditches on West Divide Creek. In many years, West Divide Creek is on call much of the irrigation season, and the Kendig Reservoir storage rights may only be in priority during winter months and the height of spring snowmelt. However, a reconnaissance level study completed by Grand River Consulting in 2011 showed that on average a physical and legal water supply to Kendig Reservoir from West Divide Creek may be over 12,000 acre feet annually. In dry years, the available water supply may be considerably less than 2,000 acre feet.

Stored water may be available for release and delivery to downstream water users located south of the Colorado River between New Castle and Parachute. The existing water rights allow for the following uses: irrigation, domestic, municipal, industrial, stock, hydropower, and recreation. Because of the reduced dry year water availability, carryover storage would likely be important to maximize dry year supplies.

*\*Kendig Reservoir was decreed in Civil Action 4954 (Adj. Date 7/9/1965) for 15,450 acre feet  
Kendig Reservoir 1<sup>st</sup> Enlargement was decreed in 79CW315 (Adj. Date 12/31/1979) for 2,610 acre feet*

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

Since the original conception of a Kendig Reservoir, the U.S. Bureau of Reclamation and others have studied many aspects of the proposed project. A comprehensive list of these studies includes:

- Grand River Consulting. 2012. Evaluation of Development Options – West Divide Project. December.
- Black and Veatch. 2011. West Divide Project Feasibility Assessment. June 3.
- ERO Resources Corporation, Inc. 2011. Environmental Permits, Authorizations, and Regulatory Requirements West Divide Project. June.
- Barnes Geologic Consulting, Inc. 2002. Geology Report - Kendig Dam and Reservoir Sites West Divide Project, Colorado. May.
- Hydro-Triad, LTD. 1986. Reformulation of the West Divide Project. July.
- U.S. Bureau of Reclamation (USBR). 1982. USBR Planning Report on the West Divide Project. May.
- U.S. Bureau of Reclamation (USBR). 1978. Kendig Dam Site, Feasibility Geology Report.
- U.S. Bureau of Reclamation (USBR). 1966. West Divide Project, Colorado. Feasibility Report. March.
- U.S. Bureau of Reclamation (USBR). 1956. West Divide Project, Colorado. Supplemental Status Report. July.
- U.S. Bureau of Reclamation (USBR). 1937. Planning Report: USBR West Slope Surveys, The West Divide Project.

At this time, there are no known major obstacles or fatal flaws that would preclude permitting or development of

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### Kendig Reservoir.

#### 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.

A detailed statement of work is provided in **Exhibit A** attached.



## **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**

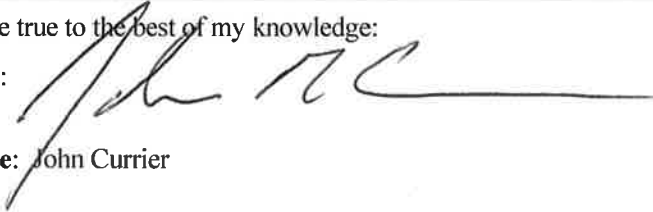
Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for 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:**



**Print Applicant's Name:** John Currier

**Project Title:** Kendig Reservoir Feasibility Evaluations

**Date:** April 23, 2015

**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](mailto:craig.godbout@state.co.us)

# EXHIBIT A

# **Kendig Reservoir Feasibility Evaluations**

## **West Divide Project**

April 23, 2015

**Colorado River District**

**West Divide Water Conservancy District**



## **BACKGROUND**

The West Divide Project (Project) was first envisioned in the late 1930s as a modest storage project to provide supplemental irrigation water to the Divide Creek drainage in Garfield County, Colorado. Subsequent studies for the Project anticipated the supply of water for municipal, domestic, industrial, and irrigation water supplies as well as for flood control, recreation, and fish and wildlife enhancement.

The Bureau of Reclamation (Reclamation) included the Project in the Colorado River Storage Projects Act (CRSP) of 1956, which gave priority to the Project for the completion of planning reports. The Project is a participating project of the CRSP, along with Glen Canyon Dam, the Aspinall Unit, Flaming Gorge Reservoir, and other facilities.

The primary water rights for the Project were conditionally decreed in 1958 to the Colorado River Water Conservation District (Colorado River District). The West Divide Water Conservancy District (West Divide) was formed on April 22, 1964, to provide local project sponsorship and administration of the West Divide Project. A portion of the water rights associated with the project have been conveyed from the Colorado River District to West Divide.

A feasibility report for the Project was published in 1966 and proposed a plan for developing irrigation, municipal, and industrial water in the Crystal River drainage and along the Colorado River between Glenwood Springs and DeBeque. Under this plan, principal water storage was planned for development on the Crystal River. In response to the feasibility report, Congress authorized construction of the Project in 1966. However, despite the fact that the Project was authorized, funds were never appropriated by Congress to develop the Project.

In 2014, the two Districts abandoned the portion of water rights that would have allowed water to be conveyed from the Crystal River to Divide Creek as the original Project had contemplated. However, the evaluation of development alternatives for the Project is on-going and the Districts continue to evaluate alternatives that would supply existing unmet water demands within the Divide Creek basin through the development of individual Project components in a cost effective and environmentally sensitive manner. Specifically, the Districts are focused on further evaluating the feasibility of a Kendig Reservoir that would utilize local water supplies available from West Divide Creek. Accordingly, this particular component of the larger West Divide Project is the focus of this scope of work.

### **Kendig Reservoir**

The Kendig Reservoir site is located in the West Divide Creek drainage, about 15 miles south of Silt, Colorado (Figure 1). A conditional water storage right has been decreed for Kendig Reservoir in the amount of about 18,000 acre feet. Kendig Reservoir was decreed in Civil Action 4954 (adjudication date July 9, 1965) for 15,450 acre feet. Kendig Reservoir 1<sup>st</sup> Enlargement was decreed in 79CW315 (adjudication date December 31, 1979) for 2,610 acre feet.

Water in West Divide Creek is primarily used for irrigation of agricultural lands, industrial purposes related to natural gas development, stock watering and domestic uses. The reservoir was previously proposed because the distribution of annual flows does not coincide with the distribution of annual demand. The reservoir would store the early summer peak flows which would allow late season irrigation demands to be met more frequently; thus, water shortages are reduced. The storage could also be used to supply non-irrigation demands including industrial, domestic, environmental, recreation, and hydropower generation. Kendig Reservoir is located at the original Kendig dam site proposed by the USBR (1966).

The purpose of this scope of work is to evaluate the development costs and potential operation of a Kendig Reservoir concept that is supplied solely by native gravity inflow from West Divide Creek. Recent studies (Black and Veatch, 2011) have evaluated the feasibility of the decreed "Lower Kendig Reservoir" site, and also an alternative "Upper Kendig Reservoir" site. The Upper Kendig Reservoir was first proposed in the 1986 Hydro-Triad report. The Upper Kendig Reservoir dam site is located approximately 1.7 miles upstream of the Lower Kendig dam site. The Upper Kendig dam site was selected so the stored water could be provided by gravity to a larger service area via delivery to the Highline Ditch. The Highline Ditch is a major irrigation ditch in the Divide Creek basin. This study would evaluate the original Kendig Reservoir site and Upper Kendig Reservoir site which could provide between 5,000 and 15,000 acre feet of storage.

Preliminary estimates reflect that an average of over 12,000 acre feet of native storable inflow occurs at the site annually, although storable inflow may be 2,000 acre feet or less in critically dry years. It is anticipated that the development of a 5,000 to 15,000 acre foot reservoir at this site may be appropriate given the amount of storable gravity inflow of West Divide Creek. Although a larger reservoir would provide additional carryover storage for supply in dry years, a smaller reservoir may be more cost effective. Additional study is required to identify optimal reservoir sizes, potential reservoir operation, the firm yield of the reservoir, geotechnical issues and project costs.

West Divide Creek is tributary to the Colorado River and subject to a call by a group of senior irrigation water rights near Grand Junction collectively known as the Cameo Call. In addition to the Cameo Call, Kendig Reservoir would also be subject to many downstream senior irrigation ditches on West Divide Creek. In many years, West Divide Creek is on call much of the irrigation season, and the Kendig Reservoir storage rights may only be in priority during winter months and the height of spring snowmelt.

Stored water may be available for release and delivery to downstream water users located south of the Colorado River between New Castle and Parachute. The existing water rights allow for the following uses: irrigation, domestic, municipal, industrial, stock, hydropower, and recreation. Because of the reduced dry year water availability, carryover storage would likely be important to maximize dry year supplies.

**Study Objectives**

West Divide and the Colorado River District seek to complete an up-to-date analysis of the feasibility of a Kendig Reservoir. The study objectives include:

1. Identify Existing and Foreseeable Water Supply Demands
2. Quantify Physical and Legal Water Availability and Evaluate Potential Reservoir Operations
3. Identify Environmental and Permitting Issues
4. Develop Conceptual Design and Cost Estimates of Storage Alternatives

This scope of work describes a potential investigation of the feasibility of a Kendig Reservoir. The goal of the study is to locate and design an appropriately sized embankment that is required to satisfy anticipated water demands, and that is feasible from an engineering, environmental and permitting perspective and cost effective to develop.

## 1.0 PROPOSED WORK TASKS

The following six work tasks are proposed.

### 1.1 Water Supply Demands

Potential water demands for the project will be evaluated and summarized. This task will estimate the location, type and magnitude of foreseeable water demands for Kendig Reservoir. The study will use existing information to the extent possible and will estimate water demands for a 50 year planning period (year 2065).

Irrigation Demands. Much of the area within a potential service area of Kendig Reservoir has inadequate irrigation water. The amount (in acre feet) and general location of irrigation shortages will be estimated from several sources of information including:

- Previous studies
- State of Colorado diversion records
- NRCS mapping and aerial photography
- Division of Water Resources mapping of irrigated area
- Irrigator Interviews

Commercial / Industrial Demands. Estimates of commercial and industrial water demands will be derived from the Phase I Energy Development Water Needs Assessment (URS, 2008) and Phase II Energy Development Water Needs Assessment (AMEC, 2011), the Garfield County Energy Master Plan, and from local knowledge of demands associated with the oil and gas industry.

Residential / Municipal Water Demand. Demands for residential and municipal use will be estimated primarily from State demographer projections of population growth, and the recently amended Garfield County Comprehensive Plan (October 2013).

Recreational and Potential Instream Flow Demands. Demands for flat water recreation and potential instream flow demands of West Divide Creek and Divide Creek will be evaluated from data available from Colorado Parks and Wildlife, the Colorado Water Conservation Board, and diversion records from Divide Creek irrigation ditches.

Hydroelectric Power Demand. The demand for Kendig Reservoir to produce hydroelectric power will be evaluated in conjunction with the local power provider Holy Cross Energy.

System Augmentation Water. The demand for Kendig Reservoir to provide augmentation water available for contract releases to the Colorado River will be evaluated.



## **1.2 Physical and Legal Water Availability**

Kendig Reservoir will store water via gravity inflow from West Divide Creek. The amount of water physically and legally available for diversion will be estimated using available stream flow records at the local U.S. Geological Survey stream gage on West Divide Creek (West Divide Creek Near Raven, CO), and the Colorado River and Divide Creek water right call record. The water supply estimates will be completed for a study period from 1955 through 2014 on a daily time step and will assist in the evaluation of potential Kendig Reservoir size configurations and potential year to year reservoir operations.

## **1.3 Environmental and Permitting – Fatal Flaw Assessment**

ERO Resources previously completed a broad overview of environmental permits, authorizations, and regulatory requirements for the Lower and Upper Kendig Reservoir sites (ERO, 2011). Thus, an updated reconnaissance level fatal flaw environmental and permitting assessment will be completed for both Kendig Reservoir sites, including any other identified feasible reservoir sites in the area.

A “desk top” investigation will be completed at each of the sites to identify the presence of known plant species of concern, and to identify any other fatal flaws that are apparent. Anticipated environmental and permitting issues will be documented for each of the sites.

The purpose of this assessment is not to conduct a complete environmental investigation for each component, but to screen identified reservoir sites that have known fatal flaws from a permitting or environmental standpoint. Further environmental reviews will be required in the future when preferred development configurations have been identified.

## **1.4 Conceptual Design of Storage Alternatives**

The objective of this work task is to evaluate existing information and site conditions, and prepare feasibility-level concepts and cost opinions for the Lower and Upper Kendig Reservoir sites to support the continued feasibility evaluation of a Kendig Reservoir.

A “desk top” study to evaluate other potential dam and reservoir locations that could avoid potential fatal flaws when compared to the existing reservoir sites (Lower and Upper Kendig Reservoir sites) will also be completed. A site visit will then be performed in order to confirm the geologic mapping is appropriate, and to identify any geotech fatal flaws. Preliminary geotechnical and hydraulic analyses will be performed as needed for one recommended reservoir site.

Preliminary feasibility-level plans of construction, including operation and maintenance costs, will be developed for the potential dam and reservoir locations. It is anticipated that the cost estimates will provide detailed information for feasibility-level planning purposes only.

**1.5 Report Preparation**

A summary report will be completed. This report will document study results and will provide recommendations, if warranted, regarding the most viable alternatives to develop the most feasible and cost effective Kendig Reservoir. An economic analysis will be completed to evaluate the total cost per acre foot of developed water associated with a Kendig Reservoir. These costs will help the Districts better assess the overall feasibility developing a Kendig Reservoir. The report may contain photographs, summaries of meetings and engineering reports/designs. In order to satisfy CWCB WSRA Basin grant criteria, the final summary report shall be provided to the CWCB that summarizes the project and documents how the project was completed.

In addition, a progress report shall be provided to the CWCB 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 this scope of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

**1.6 Project Management / Contingency Funds**

WWG will prepare the Colorado Basin Roundtable Water Supply Reserve Account (WSRA) basin application, manage the contract with the CWCB, oversee and manage the sub-consultant, facilitate and attend meetings, assist in public outreach, review reports, and complete other duties as assigned throughout the project schedule.

## 2.0 STUDY TEAM AND SCHEDULE

An integrated team of two professional firms will complete the feasibility study:

*Wilson Water Group (WWG)* will be the project manager and will be responsible for the completion of the study. WWG will also complete the evaluation of water demands and water supplies, including a reconnaissance level fatal flaw review of the environmental and permitting issues.

*RJH Consultants (RJH)* is the engineering design firm with appropriate experience and will complete all required engineering investigations including the evaluation of existing information and site conditions and prepare feasibility-level concepts and opinions of probable costs for the identified Kendig Reservoir site(s).

All team members will be involved in the identification of any potential reconfiguration alternatives.

The study will commence on August 1, 2015 using matching funds from the two districts and be completed by March 31, 2016. No WSRA funds will be used prior contract execution with CWCB. Suggested project milestones are:

- |  |                    |
|--|--------------------|
| • Task 1.1 – Site Reviews and Environmental Evaluation | September 30, 2015 |
| • Task 1.2 – Water Demand Investigations               | September 30, 2015 |
| • Task 1.3 – Physical and Legal Water Availability     | September 30, 2015 |
| • Task 1.4 – Conceptual Design of Storage Alternatives | November 30, 2015  |
| • Task 1.5 – Summary Report                            | March 31, 2016     |

It is anticipated that all work tasks will be completed by March 31, 2016.

### 3.0 STUDY COSTS

Total project costs will not exceed \$60,000 unless approved by the two districts. Proposed costs by work task are:

	<b>Cost Estimate</b>		<b>WSRA</b>		<b>Match</b>
Task 1.1 – Water Supply Demands	\$ 5,000	=	\$ 0	+	\$ 5,000
Task 1.2 – Physical and Legal Water Availability	\$12,000	=	\$ 9,000	+	\$ 3,000
Task 1.3 – Environmental and Permitting	\$ 5,000	=	\$ 5,000	+	\$ 0
Task 1.4 – Conceptual Design of Storage Alternatives	\$25,000	=	\$15,000	+	\$10,000
Task 1.5 – Report Preparation	\$ 8,000	=	\$ 8,000	+	\$ 0
Task 1.6 – Project Management / Contingency Fund	<u>\$ 5,000</u>	=	<u>\$ 3,000</u>	+	<u>\$ 2,000</u>
<b>Total Cost =</b>	<b>\$60,000</b>		<b>\$40,000</b>		<b>\$20,000</b>

KENDIG RESERVOIR FEASIBILITY STUDY																					
PROPOSED WORK TASKS AND COST ESTIMATE																					
Proposed Work Tasks	Wilson Water Group								RJH											Total Cost Estimate	
	K. Sundeen Principal Rate \$185/hr		M. Pastore Project Manager Rate \$145/hr		W. Ryan Sr. Project Engineer Rate \$125/hr		T. Benton Project Engineer Rate \$115/hr		Allowance for Expenses	WWG Subtotal	R. Huzjak Principal - 8 Rate \$205/hr		E. Friend Sr. Professional - 7 Rate \$163/hr		E. Hahn Professional - 6 Rate \$150/hr		TBD Engineer - 1 Rate \$94/hr		Allowance for Expenses		RJH Subtotal
	Hrs	Total	Hrs	Total	Hrs	Total	Hrs	Total			Hrs	Total	Hrs	Total	Hrs	Total	Hrs	Total			
	Hrs	Total	Hrs	Total	Hrs	Total	Hrs	Total	Hrs	Total	Hrs	Total	Hrs	Total	Hrs	Total	Hrs	Total			
Task 1.1 - Water Supply Demands	4	\$ 740	4	\$ 580	8	\$ 1,000	20	\$ 2,300	\$ 380	\$ 5,000	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ 5,000
Task 1.2 - Physical and Legal Water Availability	2	\$ 370	8	\$ 1,160	24	\$ 3,000	60	\$ 6,900	\$ 570	\$ 12,000	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ 12,000
Task 1.3 - Environmental and Permitting	2	\$ 370	16	\$ 2,320	8	\$ 1,000	8	\$ 920	\$ 390	\$ 5,000	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ 5,000
Task 1.4 - Conceptual Design of Storage Alternatives	4	\$ 740	6	\$ 870	6	\$ 750	6	\$ 690	\$ 836	\$ 3,886	7	\$ 1,435	32	\$ 5,216	50	\$ 7,500	70	\$ 6,580	\$ 341	\$ 21,072	\$ 24,958
Task 1.5 - Report Preparation	2	\$ 370	20	\$ 2,900	4	\$ 500	4	\$ 460	\$ 584	\$ 4,814	2	\$ 410	6	\$ 978	6	\$ 900	10	\$ 940	\$ -	\$ 3,228	\$ 8,042
Task 1.6 - Project Management / Contingency Fund	2	\$ 370	28	\$ 4,060	2	\$ 250	2	\$ 230	\$ 90	\$ 5,000	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ 5,000
Total:	16	\$ 2,960	82	\$ 11,890	52	\$ 6,500	100	\$ 11,500	\$ 2,850	\$ 35,700	9	\$ 1,845	38	\$ 6,194	56	\$ 8,400	80	\$ 7,520	\$ 341	\$ 24,300	\$ 60,000

**WILSON WATER GROUP LLC**  
**2015 RATE SCHEDULE**  
**Effective January 1, 2015 through December 31, 2015**

	<u>Hourly Rate</u>
PRINCIPAL .....	\$ 185.00
SENIOR PROJECT MANAGER .....	\$ 165.00
PROJECT MANAGER .....	\$ 145.00
SENIOR PROJECT ENGINEER.....	\$ 125.00
PROJECT ENGINEER.....	\$ 115.00
STAFF ENGINEER .....	\$ 95.00
ADMINISTRATIVE SUPPORT .....	\$ 80.00

Costs associated with prints, copies, and telephones are indirect expenses and are included in the above rates. Travel costs associated with airfares, airport parking, hotels, and meals will be billed as direct expenses. Mileage for automobile travel more than 100 miles from the Wilson Water Group office will be billed at the current Federal GSA POV mileage reimbursement rate.

## 2015 FEE SCHEDULE

### Professional Services

<b>Labor Category</b>	<b>Billing Rate per Hour (\$)</b>
Technical Expert	230
Principal – Grade 8	205
Senior Professional – Grade 7	190
Senior Professional – Grade 6	163
Professional – Grade 5	150
Professional – Grade 4	122
Engineer/Geologist – Grade 3	112
Engineer/Geologist – Grade 2	100
Engineer/Geologist – Grade 1	94
CAD Designer	96
Word Processor/Administrative Staff	74

These rates are billed for both regular and overtime hours in all categories.

### General Expenses

Reimbursement for general expenses, which include field and laboratory equipment; computer equipment and software; printing and reproduction; communications and mailing; local transportation, tolls and parking; field vehicles; and field equipment will be invoiced based on a percentage of labor costs and type of project as follows:

- General consulting services and planning and feasibility studies – 4%
- Design and bid document preparation and geotechnical investigations – 6%
- Construction management and field observation – 8%

### Out of Town Travel and Subsistence

Reimbursement for expenses for travel, rental vehicles, hotels, meals, and other costs associated with out of town and overnight travel will be invoiced at cost plus a 10 percent service charge.

### Subcontractors and Subconsultants

Reimbursement for work performed by subconsultants and subcontractors will be invoiced at cost plus a 10 percent service charge.

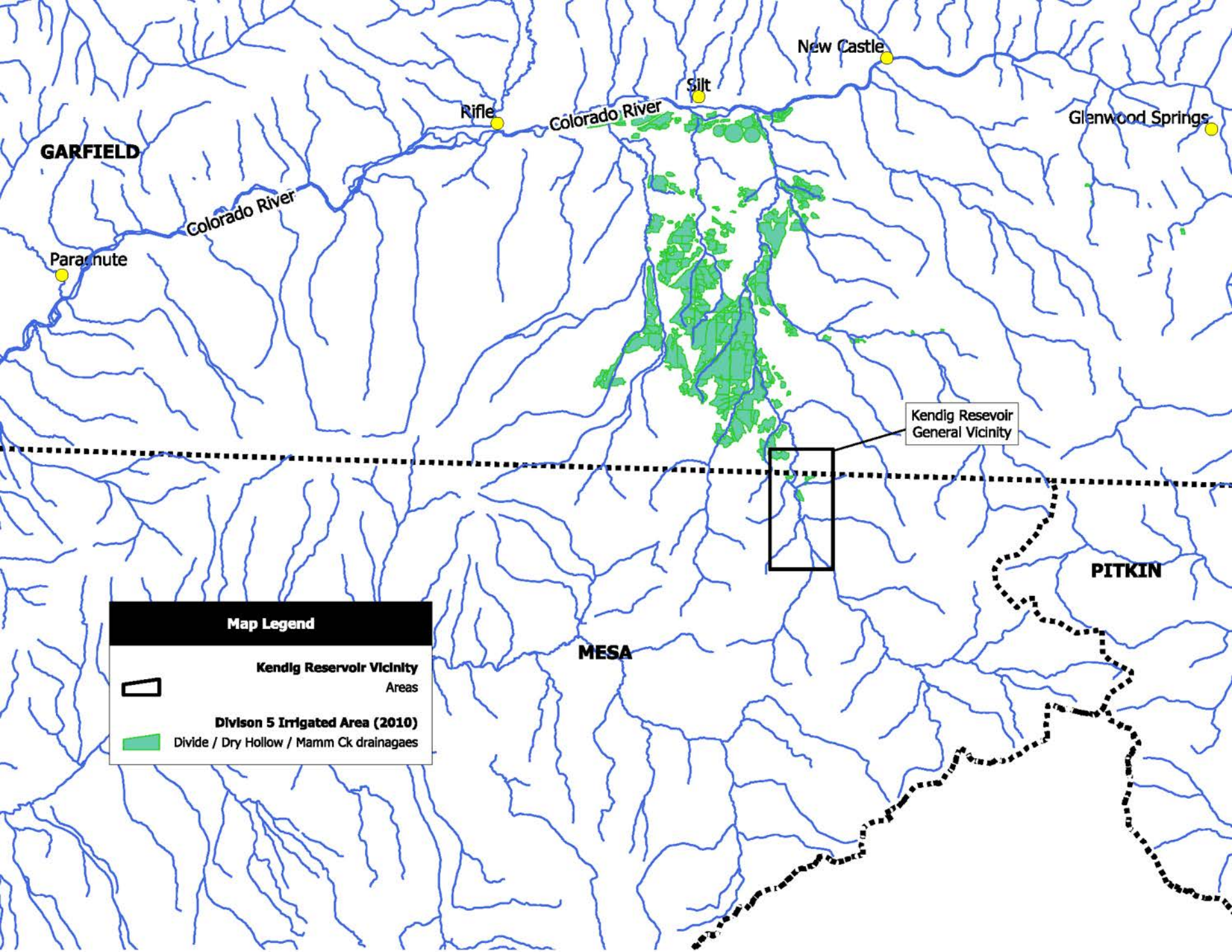
### Contract Labor

Contract labor provided by independent consultants and temporary agencies for activities such as drafting, engineering, and word processing will be invoiced at the appropriate labor category as described above for professional services.

### Payment Terms

Invoices will be submitted monthly and are due Net 30 days. Interest will accrue at the rate of 1 percent of the invoice amount per month, for amounts that remain unpaid more than 30 days after the invoice date.





**GARFIELD**

Colorado River

Rifle

Colorado River

Silt

New Castle

Glenwood Springs

Parachute

Kendig Reservoir  
General Vicinity

**PITKIN**

**MESA**

**Map Legend**

-  **Kendig Reservoir Vicinity**  
Areas
-  **Division 5 Irrigated Area (2010)**  
Divide / Dry Hollow / Mamm Ck drainages



