

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
January 27-28, 2014
Agenda Item 31(h)

Applicant: Moffat County Natural Resources Department

Water Activity Name: Yampa-White Basin Projects and Methods Analysis – Request for Additional Funding

Water Activity Purpose: Non-Structural Activity (consumptive and nonconsumptive)

County: Multiple

Drainage Basin: Yampa and White basins

Water Source: N/A

Amount Requested: \$20,000 Yampa/White/Green Basin Account

Source of Funds: Yampa/White/Green Basin Account

Matching Funds: n/a

Staff Recommendation
Staff recommends approval of up to \$20,000 from the Yampa/White/Green Basin Account to help the roundtable determine its consumptive and nonconsumptive projects and methods by performing additional model simulations (Task 5).

Water Activity Summary:

The Yampa-White Basin is completing the Project and Methods Study. During the completion of this study, the Basin Roundtable has identified the potential need for additional river basin modeling to support the development of the Draft Basin Implementation Plan. The river basin model has been developed and will be used to perform additional model simulations as directed by the Projects and Methods Subcommittee.

This additional modeling task (Task 5) will use the river operations model(s) developed under the Projects and Methods Study to assist the Yampa-White Basin in evaluating potential projects and methods to meet the basins future water needs.

Threshold and Evaluation Criteria:

The application meets all four Threshold Criteria.

Discussion:

On March 2011 the CWCB approved a Statewide Account request of \$152,000, and a Basin Account request of \$38,000 to initiate this process, for a total of \$190,000. The contract has since been extended to December 31, 2014.

Issues/Additional Needs:

No additional issues or needs were identified.

Staff Recommendation:

Staff recommends approval of up to \$20,000 from the Yampa/White/Green Basin account to help the roundtable determine its consumptive and nonconsumptive projects and methods by performing additional model simulations (Task 5).

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 and Final Deliverable: 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. 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.

Jacob Bornstien
Water Supply Planning Section
Colorado Water Conservation Board
1580 Logan Street, Suite 600
Denver, CO 80203

January 7, 2014

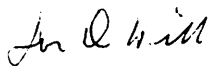
Dear Mr. Bornstien,

The Yampa-White Basin Roundtable has reviewed and is in support of the Water Supply Reserve Account Grant Application from the Moffat County Natural Resources Department to amend the Projects and Methods Study for Additional modeling. This project is important to the Yampa-White Basin and Colorado since it will develop a comprehensive summary of the basin's consumptive and nonconsumptive water needs including spatial representation of these needs. The amendment for additional modeling will allow the Basin Roundtable to further examine additional methods to meet the Yampa-White Basin's future water needs for both consumptive and nonconsumptive needs.

This amendment to the Projects and Methods Study was discussed and unanimously approved at the Yampa-White Basin Roundtable Meeting in October.

The scope, schedule and budget for this amendment will be provided directly to you by Moffat County Natural Resources Department or CDM Smith. If you require additional information, please contact me.

Sincerely,

A handwritten signature in cursive script, appearing to read "Jon Hill".

Jon Hill
Yampa-White Basin Roundtable Chair



COLORADO WATER CONSERVATION BOARD



WATER SUPPLY RESERVE ACCOUNT GRANT APPLICATION FORM

Name of Water Activity/Project

Approving Basin Roundtable

Amount from Statewide Account

Total Amount of Funds Requested

Amount from Basin Account

Application Content

Application Instructions	page 2
Part A – Description of the Applicant	page 3
Part B – Description of the Water Activity	page 6
Part C – Threshold and Evaluation Criteria	page 8
Part D – Required Supporting Material	
Water Rights, Availability, and Sustainability	page 12
Related Studies	page 12
Statement of Work, Detailed Budget, and Project Schedule	page 12
Signature Page	page 17

Attachments

1. Reference Information
2. Insurance Requirements (Projects Over \$25,000)
3. WSRA Standard Contract (Projects Over \$100,000)
4. W-9 Form (Required for All Projects)

Water Supply Reserve Account – Grant Application Form

Form Revised March 2009

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/approval is outlined in Attachment 1.

Once approved by the local Basin Roundtable, the applicant should submit this application, a detailed statement of work, detailed project budget, and project schedule to the CWCB staff by the application deadline.

The application deadlines are:

- Basin Account – 60 calendar days prior to the bi-monthly Board meeting
- Statewide Account – 60 calendar days prior to the September Board meeting

Board Meeting Dates	Basin Account Deadlines	Statewide Account Deadlines
July 20-21, 2010	May 21, 2010	n/a
September 21-22	July 23, 2010	July 23, 2010
November 16-17	September 17, 2010	n/a
January 2011	60 days prior	n/a
March 2011	60 days prior	n/a
May 2011	60 days prior	n/a
July 2011	60 days prior	n/a
September 2011	60 days prior	60 days prior

When completing this application, the applicant should refer to the WSRA Criteria and Guidelines available at: <http://cwcb.state.co.us/IWMD>.

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:

Mr. Todd Doherty
Colorado Water Conservation Board
Water Supply Planning Section
WSRA Application
1580 Logan Street, Suite 200
Denver, CO 80203
Todd.Doherty@state.co.us

If you have questions or need additional assistance, please contact Todd Doherty of the Water Supply Planning Section at 303-866-3441 x3210 or todd.doherty@state.co.us.

Water Supply Reserve Account – Grant Application Form

Form Revised March 2009

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

1. Applicant Name(s):

Mailing address:

Taxpayer ID#:

Email address:

Phone Numbers: Business:

Home:

Fax:

2. Person to contact regarding this application if different from above:

Name:

Position/Title

3. Eligible entities that may apply for grants from the WSRA 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) – special, water and sanitation, conservancy, conservation, irrigation, or 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.

Form Revised March 2009

4. Provide a brief description of your organization
5. If the Contracting Entity is different then the Applicant (Project Sponsor or Owner) please describe the Contracting Entity here.

Water Supply Reserve Account – Grant Application Form

Form Revised March 2009

6. 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 copy of this standard contract is included in Attachment 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.

7. 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.

Water Supply Reserve Account – Grant Application Form
Form Revised March 2009

Part B. - Description of the Water Activity

1. Name of the Water Activity/Project:

2. What is the purpose of this grant application? (Please check all that apply.)

☐

Environmental compliance and feasibility study

☐

Technical Assistance regarding permitting, feasibility studies, and environmental compliance

☐

Studies or analysis of structural, nonstructural, consumptive, nonconsumptive water needs, projects

Study or Analysis of:

☐

Structural project or activity

☐

Nonstructural project or activity

☐

Consumptive project or activity

☐

Nonconsumptive project or activity

☐

Structural and/ or nonstructural water project or activity

Water Supply Reserve Account – Grant Application Form

Form Revised March 2009

3. 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.

Water Supply Reserve Account – Grant Application Form

Form Revised March 2009

Part C. – 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

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.

Water Supply Reserve Account – Grant Application Form

Form Revised March 2009

- 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.

- 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.

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.

Water Supply Reserve Account – Grant Application Form

Form Revised March 2009

- d) Matching Requirement: For requests from the Statewide Fund, the applicants is required to demonstrate a 20 percent (or greater) match of the request from the Statewide Account. 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 application was submitted to the CWCB. Please describe the source(s) of matching funds. (NOTE: These matching funds should also be reflected in your Detailed Budget in Part D of this application)

Water Supply Reserve Account – Grant Application Form

Form Revised March 2009

2. For Applications that include a request for funds from the Statewide Account, describe how the water activity meets the **Evaluation Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines.)

Part D. – 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 the name/location of water bodies affected by the water activity.

2. Please provide a brief narrative of any related or relevant previous studies.

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.

Please provide a detailed statement of work using the following template. Additional sections or modifications may be included as necessary. Please define all acronyms. If a grant is awarded an independent statement of work document will be required with correct page numbers.

Water Supply Reserve Account – Grant Application Form
Form Revised March 2009

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

Signature of Applicant:

Print Applicant's Name:

Project Title:

Return this application to:

Mr. Todd Doherty
Intrastate Water Management and Development Section
COLORADO WATER CONSERVATION BOARD
1580 Logan Street, Suite 200
Denver, CO 80203

To submit applications by Email, send to: todd.doherty@state.co.us

Statement of Work

WATER ACTIVITY NAME – Yampa-White Basin Projects and Methods Analysis

GRANT RECIPIENT – Moffat County Natural Resources Department

FUNDING SOURCE – Statewide Account / Basin Account

INTRODUCTION AND BACKGROUND

The Yampa-White Basin has completed consumptive and nonconsumptive needs assessments as required by HB05-1177. These needs assessments have identified several needs within the Yampa-White Basin. This effort is intended to build on the findings of these needs assessments to identify potential projects and methods that could be used to meet the Yampa-White Basin future water needs for both consumptive and nonconsumptive needs. This will be accomplished by developing spatial representation of consumptive (municipal, industrial & agricultural) needs and nonconsumptive (environmental and recreational) needs within the basin. Information from previous Water Supply Reserve Account grant studies (Energy Study, Agricultural Needs Study and Watershed Flow Evaluation Tool Study), Colorado Water Conservation Board Statewide Water Supply Initiative 2010 report and Basin Needs Assessment reports will be used to develop a comprehensive summary of the basins consumptive and nonconsumptive water needs. Using the information gathered a feasibility analysis will be undertaken to identify projects and methods within the Yampa-White Basin to meet future water needs. The second component of this project will develop a river operations model to assist the Yampa-White Basin in evaluating potential projects and methods to meet the basins future water needs. Finally, this project will review priorities for the water rights of the statewide alternatives to examine their potential benefits or impacts in the Yampa-White Basin.

A summary of possible projects and methods to meet the Yampa-White Basin needs will be documented in a Technical Memorandum and presented to the Basin Roundtable.

OBJECTIVES

List the objectives of the project are:

- Develop a common understanding by the Yampa-White Basin Roundtable and other key stakeholders of the consumptive and nonconsumptive needs in the Yampa-White Basin
- Develop spatial representation of consumptive (municipal, industrial & agricultural) needs
- Develop spatial representation of nonconsumptive (environmental & recreational) needs
- Identify critical areas in basin such as endangered species flow requirements
- Analyze river operations for the Yampa
- Comparison of water right priorities associated with the various Statewide SWSI Transbasin Alternatives on the Yampa/White/Green Basin

TASKS

This project has the following tasks:

- Task 1 – Develop Common Understanding of Water Needs in the Yampa-White Basin
- Task 2 – Analyze River Operations for the Yampa
- Task 3 – Comparison of existing water right priorities of Statewide SWSI Alternatives to those of the Yampa White basin
- Task 4 – Reporting and Final Deliverable

The description, method/procedure and deliverables associated with each task are described below.

TASK 1 – Develop Common Understanding of Water Needs in the Yampa-White Basin

Description of Task

The purpose of this task is to develop a common understanding by the Yampa-White Basin roundtable and other key public stakeholders of the consumptive and nonconsumptive water needs in the Yampa-White Basin. The applicant will develop a spatial representation of its consumptive (municipal and industrial and agricultural) and nonconsumptive (environmental and recreational) needs. In addition, the applicant will identify critical areas in the basin such as endangered species flow requirements that will need to be considered in any analysis addressing projects and methods to meet the basin's future needs.

Method/Procedure

Applicant will utilize information summarized in the Yampa-White's previous Water Supply Reserve Account grant studies (Energy Study, Agricultural Needs Study and Watershed Flow Evaluation Tool Study) and information developed by the Colorado Water Conservation Board (CWCB) as part of the Statewide Water Supply Initiative (SWSI) 2010 report and Basin Needs Assessments reports to develop a comprehensive summary of the basin's consumptive and nonconsumptive water needs. The Yampa-White Basin's consumptive and nonconsumptive needs will be summarized in a Yampa-White Basin specific portfolio and trade-off tool that has been used statewide in the Interbasin Compact Committee discussions. Consumptive and nonconsumptive needs will be displayed spatially using Geographic Information Systems software. In addition, applicant will spatially display their water need "gaps" spatially. Finally, critical areas in the basin with specific flow needs such for endangered species will be summarized spatially. Applicant will hold two meetings with a roundtable subcommittee to review the summarized material. At the first meeting a draft summary of the material will be prepared for the subcommittees review and comment. The second meeting will be to review changes to the summary and to finalize the information to be presented and approved by the Basin Roundtable.

Deliverable

Deliverables for the task will include:

- Draft and Final Technical Memorandum summarizing consumptive and nonconsumptive demands in the basin
- Meeting summaries documenting action items from subcommittee meeting
- Presentation for use at Basin Roundtable Meetings

Cost

The Total cost for this task is \$75,000.

TASK 2 – Analyze River Operations for the Yampa

Description of Task

The purpose of this task is model river operations to meet the needs of the Yampa basin. The Applicant will utilize the CDSS model for the Yampa-White Basin.

Method/Procedure

Applicant will use the CDSS and other tools used during the Agricultural Needs Study to analyze river operations for the Yampa. This project will be modeled with wet, average and dry hydrologic conditions. The modeling will rely on the Consumptive and Nonconsumptive Needs Assessments and input from the Yampa Roundtable to develop operational scenarios to meet consumptive and nonconsumptive needs. On the nonconsumptive side this would include recreational boating flows and environmental flows determined by the Roundtable. Consumptive needs will be incorporated from the following sources: the Agriculture Study for Current and Future Demands, Yampa Energy Study and M&I Demands to 2050 Report. Demands will be incorporated in to the modeling effort at the county level. The Applicant anticipates up to six meetings with the Basin Roundtable Subcommittee to review the river operations model set-up and results.

Deliverable

Deliverables for the task will include:

- Draft and Final Report summarizing modeling results from the CDSS
- Updated model files summarizing river operations
- Meeting summaries documenting action items from subcommittee meeting
- Presentation for use at Basin Roundtable Meetings

Cost

The cost for this task is estimated at \$75,000.

TASK 3 –Comparison of Statewide Alternatives Water Right Priority Dates with those of the Yampa White Basin

Description of Task

The purpose of this task is to examine potential statewide alternatives water right priorities and examine how their potential implementation compares to existing water rights in the Yampa, White and Green river basins. The majority of statewide alternatives have been examined at reconnaissance level; however, their impact on existing water rights in these basins has not been explored.

Method/Procedure

Applicant will summarize the existing priorities for the water rights of the statewide alternatives involving trans-basin transfers from west of the continental divide that have been discussed as part of the IBCC and CWCB Boards discussions (Flaming Gorge-Green River Pumpback, Yampa Pumpback, Blue Mesa Pumpback, and Green Mountain-Blue River Pumpback). The

applicant will identify the how these priorities compare to water rights included in the CDSS model for the Yampa, White and Green river basins. A tabulation of water rights of each proposed new trans-basin project will be prepared and compared to water rights of major diverters and municipalities on the Yampa, White and Green rivers. Applicant will hold two meetings with the Roundtable to review the above-named statewide trans-basin proposed alternatives. The first meeting will be to discuss the current understanding of the water rights of the various alternatives, discuss an initial comparison with those in the Yampa/White Basins and receive direction for the report for task 3. The second meeting will be to review the evaluation an analysis of impacts and receive subcommittee direction on examination of alternative operations and configurations that need to be studied. The Applicant will not proceed to review alternative operations and configurations of a project but will scope the details that must be considered. The second meeting will be to review the changes made to the comparison of water right priorities and discuss analysis using the CDSS tool that might be valuable to the roundtable in the future. A summary of water rights comparison for presentation to the Roundtable will be available at this meeting.

Deliverable

Deliverables for the task will include:

- Draft and Final Technical Memorandum summarizing the above-named statewide trans-basin proposed alternatives water right priorities comparison to the Yampa-White Basin major diverters and municipalities
- Meeting summaries documenting action items from subcommittee meeting
- Presentation for use at Basin Roundtable Meetings

Cost

The cost for this task is estimated at \$20,000.

TASK 4 – 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.

Cost

The cost for this task is estimated at \$20,000.

Total Cost – \$190,000.

Recommend 80% from Statewide Account
 20% from Yampa Basin Account

Yampa-White Basin Projects and Methods Analysis

Updated: Jan 20, 2011

Budget includes Statewide and Basin Account Funds (Statewide 80% and Yampa-White Basin Account 20%)

Total Costs

Tasks	Labor	Other Direct Costs	Total Project Costs
Task 1 - Develop Common Understanding	\$ 74,000	\$ 1,000	\$ 75,000
Task 2 - Analyze River Operations	\$ 72,400	\$ 2,600	\$ 75,000
Task 3 - Comparison of Water Rights	\$ 19,100	\$ 900	\$ 20,000
Task 4 - Reporting and Final Deliverable	\$ 19,300	\$ 700	\$ 20,000
Total Costs	\$ 184,800	\$ 5,200	\$ 190,000

Labor Costs

Example Project Personnel	Project Manager	Project Engineer	Scientist	Graphics/Designer	Clerical		Total Costs
Hourly Rate:	\$195	\$150	\$100	\$80	\$60		
Task 1 - Develop Common Understanding	120	160	186	40	80		\$ 74,000
Task 2 - Analyze River Operations	80	240	196		20		\$ 72,400
Task 3 - Comparison of Water Rights	20	40	48	40	20		\$ 19,100
Task 4 - Reporting and Final Deliverable	20	40	54	20	40		\$ 19,300
Total Hours:	240	480	484	100	160		1464
Total Costs:	\$46,800	\$72,000	\$48,400	\$8,000	\$9,600		\$ 184,800

Other Direct Costs

Item	Copies (No.)	Materials	Equipment/ Supplies	Mileage (Miles)		Total
Unit Cost	\$0.50/page	\$	\$	\$0.51/mile		
Task 1 - Develop Common Understanding	384	\$ -	\$ 400.00	800		\$ 1,000
Task 2 - Analyze River Operations	352	\$ -	\$ 1,200.00	2400		\$ 2,600
Task 3 - Comparison of Water Rights	184	\$ -	\$ 400.00	800		\$ 900
Task 4 - Reporting and Final Deliverable	592	\$ -	\$ 200.00	400		\$ 700
Total Units	1512	\$ -	\$ 2,200.00	4400		
Total Cost	\$ 756	\$ -	\$ 2,200	\$ 2,244		\$ 5,200

Yampa-White Basin Projects and Methods Analysis

Updated: Jan 20, 2011

Schedule

Task	Task Description	Start Date	End Date
Task 1	Task 1 - Develop Common Understanding	Upon NTP	NTP + 180 days
Task 2	Task 2 - Analyze River Operations	NTP + 180 days	NTP + 300 days
Task 3	Task 3 - Comparison of Water Rights	NTP + 240 days	NTP + 360 days
Task 4	Task 4 - Reporting and Final Deliverable	NTP + 360 days	NTP + 420 days

NTP = Notice to Proceed

State of Colorado
Jacob Bornstein
1313 Sherman Street, Room 721
Denver, CO 80203

October xx, 2013

RE: Contract Number: 150481

Dear Mr. Bornstein,

I am sending this correspondence to request a contract amendment and extension for the Yampa-White Projects & Methods Analysis which is funded by a Water Supply Reserve Account (WSRA) Grant project budget.

As you know the Moffat County Natural Resources Department initiated work on the Yampa-White Projects & Methods Analysis. This project is intended to build on the findings of these needs assessments to identify potential projects and methods that could be used to meet the Yampa-White Basin future water needs for both consumptive and nonconsumptive needs.

The project as originally scoped is expected to be completed by December 31, 2013. The Basin Roundtable has learned a lot through the modeling performed under this project. The Basin Roundtable has recognized that additional modeling may be required to better understand its needs and how they may be met by identified projects and procedures (IP&Ps) in the Yampa and White River Basins. This modeling will be both to identify additional potentially beneficial projects as well as support the development of the Draft Basin Implementation Plan (BIP).

It is for this reason the Yampa/White/Green Basin Roundtable approved a motion to amend this contract with a new task (Task 5 – Additional Modeling of the Yampa and White River Basins) for an additional \$20,000 of basin funds and request an extension of the contract to December 31, 2014. This task will be directed by the Basin Roundtable – Projects and Methods Subcommittee to explore options to meet its future water needs.

We are requesting an extension of our current contract by 1 year (360 days) through December 2014 so that we can complete the scoped tasks of this analysis.

The following is a revised project schedule which includes the original start/end dates for each of the scoped tasks.

Revised Project Budget by Task

Task	Task Description	Budget (Original)	Budget (Revised)
Task 1	Task 1 - Develop Common Understanding	\$75,000	\$75,000
Task 2	Task 2 - Analyze River Operations	\$75,000	\$75,000
Task 3	Task 3 - Comparison of Water Rights	\$20,000	\$20,000
Task 4	Task 4 - Reporting and Final Deliverable	\$20,000	\$20,000
Task 5	Task 5 – Additional Modeling	-	\$20,000
Total		\$190,000	\$210,000

Notice to Proceed was given August 2011

Revised Project Schedule by Task

Task	Task Description	Start Date	End Date (Original)	End Date (Revised)
Task 1	Task 1 - Develop Common Understanding	Aug-11	Feb-12	Dec-13
Task 2	Task 2 - Analyze River Operations	Feb-12	Jun-12	Dec-13
Task 3	Task 3 - Comparison of Water Rights	Apr-12	Aug-12	Dec-13
Task 4	Task 4 - Reporting and Final Deliverable	Aug-12	Nov-12	Dec-13
Task 5	Task 5 – Additional Modeling	Nov-13	NA	Dec-14

Notice to Proceed was given August 2011

Please contact me if you have any questions.

Sincerely,

Jeff Comstock
Director
Moffat County Natural Resources Department

Statement of Work – Amendment#1

WATER ACTIVITY NAME – Yampa-White Basin Projects and Methods Analysis

GRANT RECIPIENT – Moffat County Natural Resources Department

FUNDING SOURCE –Basin Account

INTRODUCTION AND BACKGROUND

The Yampa-White Basin is completing the Project and Methods Study. During the completion of this study, the Basin Roundtable has identified the potential need for additional river basin modeling to support the development of the Draft Basin Implementation Plan. The river basin model has been developed and will be used to preform additional model simulations as directed by the Projects and Methods Subcommittee.

This additional modeling task will use the river operations model(s) developed under the Projects and Methods Study to assist the Yampa-White Basin in evaluating potential projects and methods to meet the basins future water needs.

OBJECTIVES

List the objectives of this new task are consistent with the original project and are:

- Develop a common understanding by the Yampa-White Basin Roundtable and other key stakeholders of the consumptive and nonconsumptive needs in the Yampa-White Basin
- Develop spatial representation of consumptive (municipal, industrial & agricultural) needs
- Develop spatial representation of nonconsumptive (environmental & recreational) needs
- Identify critical areas in basin such as endangered species flow requirements
- Analyze river operations for the Yampa and White Basins

TASKS

This amendment will add the following task to the Projects and Methods Project Scope of Work:

- Task 5 – Additional Modeling of the Yampa and White River Basins

The description, method/procedure and deliverables associated with each task are described below.

TASK 5 – Additional Modeling of the Yampa and White River Basins

Description of Task

The purpose of this task is model river operations to meet the needs of the Yampa and White basins. The Applicant will utilize the CDSS models developed for the Yampa-White Basin

under the Projects and Methods Study to perform additional model simulations as directed by the Projects and Methods Subcommittee up to \$20,000.

Method/Procedure

Applicant will use the CDSS and other tools developed for the Yampa-White Basin under the Projects and Methods Study to analyze river operations for the Yampa and White Basins. The model will be used to evaluate additional identified projects and procedures as directed and defined by the Projects and Methods Subcommittee. As the Subcommittee identifies model simulations to be performed they will direct the Engineer to run the scenario in the Yampa and/or White River StateMod model. The Engineer will run the scenario and provide results to the subcommittee in a format which is consistent with the results provided during Task 2 of the Projects and Methods Study. The results will identify benefits and impacts of the scenario associated with consumptive and nonconsumptive needs in the basin. This task will not include a report of the findings but the results may be used in the Draft Basin Implementation Plan (BIP) which is currently being developed.

Deliverable

Deliverables for the task will include:

- Updated model files summarizing river operations
- Providing model results to the subcommittee
- Presentation for use at Basin Roundtable Meetings (???)

Cost

The cost for this task is estimated at \$20,000.

Total Cost – \$20,000.

Recommend 100% from Yampa Basin Account