



COLORADO WATER CONSERVATION BOARD



WATER SUPPLY RESERVE ACCOUNT 2009-2010 GRANT APPLICATION FORM

North Park Irrigated Meadow Conservation Program – Phase I

Name of Water Activity/Project

Approving Basin Roundtable

\$20,000

Amount from Statewide Account

\$0

Total Amount of Funds Requested

Amount from Basin Account

\$20,000

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

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

1.	Applicant Name(s):	Ducks Unlimited, Inc.		
	Mailing address:	2525 River Road Bismarck, ND 58503-9011		
	Taxpayer ID#:	13-5643799	Email address:	mreddy@ducks.org
	Phone Numbers: Business:	970.221.9862		
	Home:	970.381.2876		
	Fax:	970.797.1333		

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

Name:	Matthew A. Reddy, 2926 Mulberry Street, Fort Collins, CO 80524
Position/Title	Regional Biologist

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.

4. Provide a brief description of your organization

Ducks Unlimited, Inc. (DU) is a private not for profit (501(c)3) organization whose mission is to conserve, restore and manage wetlands and associated habitats for North America's waterfowl. These habitats also benefit other wildlife and people. Established in 1937, DU was founded by a group of men who realized the Dust Bowl was having a devastating effect on waterfowl populations. They set about to form an organization which has become the preeminent conservator of North American wetland habitats. Wetlands are one of the most dynamic natural systems on earth, providing flood irrigation, recharge of aquifers, contaminant removal, wildlife habitat, and they provide the basis for the livelihoods and recreation of millions of people. Over our 70 year history, DU has conserved more than 11 million acres of wetlands and associated habitats. DU is a science-based organization and it pursues its mission continent-wide, focusing on priority areas with the biggest impact on North American waterfowl populations.

In Colorado, DU has worked with several organizations focused on both wildlife conservation and water resources conservation. Since 1997, we have conserved, restored and managed nearly 71,000 acres of wetlands and associated habitats in Colorado. To deliver wetland conservation projects in the state, DU maintains a staff including a full-time program manager, a regional biologist, a certified engineer, a construction manager, a lands protection specialist and a regional director of grassroots membership. We also maintain a registered membership of over 10,000 members in the state of Colorado.

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

Not Applicable

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6. **Successful applicants will have to execute a contract with the CWCBC prior to beginning work on the portion of the project funded by the WSRA grant. In order to expedite the contracting process the CWCBC 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 CWCBC 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.

Ducks Unlimited, Inc. has utilized the CWCBC's Standard Contract on other WSRA projects with only slight modification.

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.**

As a private, non-profit corporation Ducks Unlimited, Inc. is not subject to the limitations imposed on government by the TABOR amendment and its policies.

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Part B. - Description of the Water Activity

1. Name of the Water Activity/Project:

North Park Irrigated Meadow Conservation Program – Phase I

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

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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.

The North Park Irrigated Meadow Conservation Program is a multi-partner effort to restore and enhance irrigated meadows found in Jackson County, Colorado. The Program addresses both consumptive and nonconsumptive needs by rehabilitating water-delivery systems in the Park. Irrigators benefit by increasing the acreage under irrigation. Waterfowl will benefit by increasing the quantity and quality of breeding habitats in the North Platte Basin (NPB) of Colorado. This application addresses the first phase of the program by seeking funding for the assessment of candidate projects. Water availability, irrigation infrastructure condition, wetland habitat condition, wildlife value, project impact assessments and the necessary project permitting will provide the information required by potential funders.

First, the North Platte Basin Nonconsumptive Needs Assessment, the North Park River Surface Water Model, and the work of the Colorado Natural Heritage Program will be integrated with other wildlife resource data to specify areas of the NPB where irrigated meadow conservation work would provide the most benefit to water users. A ‘Thunderstorm’ map of potential project sites will be developed and will drive outreach efforts to landowners in the park. Next, site visits to properties identified by this modeling will be made by DU biologists and engineers. These visits are necessary to understand the extent of work needed to rehabilitate irrigation infrastructure and to ascertain the benefits of any such work. A conceptual plan, provisional budget, and summary of benefits (both agricultural and ecological) will be compiled, along with any significant hurdles to fully realizing the identified benefits. Four to five of the sites with the best potential will be subject to a detailed survey and design effort by DU engineers and technicians. Topographic maps, detailed water-control designs, ditch courses and impoundments will be plotted and made available to the landowner. These plans and the corresponding budgets will be used to raise funds for project delivery. Potential conflicts with existing land and water use arising from improvements will also be assessed. Finally, the necessary permits to accomplish project objectives will be identified and, to the extent possible, secured such that the planned work need only be funded for rehabilitation to begin.

\$10,634 of WSRA funds will be used to cover DU staff costs during this first phase. An additional \$7,584 will be used for direct costs. The remaining \$1,818 of the \$20,000 request will cover our indirect costs. This request will be matched 2.5 times by watershed and wildlife funds to be secured by DU.

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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

This Program shall conform to the requirements/language of the above Statute. We affirm the prior appropriation doctrine and water rights adjudication system as presented in C.R.S. 37-75-102. Water for the restored irrigated meadows will be put to use under existing decrees or new water rights will be secured. These rights will be administered by the water commissioners of District 47. All project transactions are subject to the Constitution, Statutes and regulations of the State of Colorado.

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.

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- 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.**

This project application was first reviewed by members of the North Platte Basin Roundtable in January of 2010. This revision reflects the following comments and criticisms of that original application:

- 1.) Funding of unidentified projects – Members of the NPBRT refused to approve ‘block’ funding for the Program. They required site-specific detail for any construction work funded with WSRA allocations. The construction phase of the original application has been removed in this revision. Phase I will provide the necessary detail for subsequent funding requests to the NPBRT.
- 2.) Detail of work plan – Members of the NPBRT requested additional detail on the work and deliverables to be provided under the program. This revision has separated the original ‘Feasibility’ phase into four tasks with more detail on the need, process, and outputs of each of those tasks.
- 3.) WSRA Funding – In an effort to be judicious with the limited funds in the NPBRT account, this revision has reduced the total request by \$2,000 from the Basin while increasing the amount of work funded. Additional project partners will be approached to share in the funding of the feasibility phase of the Program, increasing the overall match ratio above 2:1.
- 4.) Assessment of environmental impact – The original application induced concern from members of the board, federal agencies, and neighboring states regarding the impact of the Program on water, wildlife and other natural resources. This revision has budgeted for additional resources to assess environmental impacts of potential projects.

- 5.) Funding of projects on federal land – Assessment of irrigation rehabilitation projects on federal lands will not be funded with WSRA allocations.

The revised application will be submitted to the North Platte BRT in accordance with their bylaws for submitting applications for funding from the Basin account. The application was submitted on February 8, 2010 to be approved by the roundtable at their March 9, 2010 meeting. This will allow submission to CWCB by their March 15th deadline in time for their May meeting.

- c) **The water activity meets the provisions of Section 37-75-104(2), Colorado Revised Statutes.² Specifically describe how the water activity either furthers the Roundtable's basin-wide water needs assessment or meets a consumptive or non-consumptive water supply need identified in the Roundtable's working needs assessment.**

The Statewide Water Supply Initiative anticipates little change in consumptive use in the NPB over the next half-century. Water use in the watershed will likely continue to be dominated by irrigated agriculture. This application seeks funding for project feasibility work to develop plans to utilize available irrigable acres under the North Platte Decree and the Platte River Recovery Program. These irrigation projects will benefit both consumptive users, the irrigators, and nonconsumptive users, wetland-dependent wildlife species and the citizens who enjoy them.

The North Platte Decree (the Decree) caps water diversions for irrigated agriculture in the NPB of Colorado at 145,000 acres per irrigation season. Also, Colorado has established that up to 134,467 acres of lands can be irrigated in the Park without incurring new depletions (New Water Activities) under the Platte River Program Cooperative Agreement. It is the intent of this application to develop project plans for irrigation system rehabilitation such that North Park irrigators and waterfowl

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

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populations benefit from more and higher-quality irrigated meadows.

This will be accomplished through the installation of modern water-delivery systems in watersheds maintaining irrigated meadows useful to both landowners and waterfowl. Two principal activities will be considered under the Program: Rehabilitation of systems diverting and delivering water to groups of landowners; and, local water distribution systems irrigating specific tracts of land. Under each of these principal activities we will strive to develop plans that increase both the efficiency of water delivery and expand the reach of that delivery to improve irrigated meadow habitat.

Practices to be considered in this feasibility phase include ditch renovation and lining, water-control structure replacement and rehabilitation, head-gate replacement and rehabilitation, the construction of new feeder ditch systems and shallow-water impoundments. All of these activities are meant to increase the capacity, delivery efficiency and ease of operation for the systems delivering water to the irrigated meadows of the Park.

For instance, lining of a major ditch irrigating acreage near a noted waterfowl breeding area would decrease the loss of water from that ditch. This would allow the irrigator to expand the expanse and duration of meadow put under irrigation while decreasing the amount of ‘carrying’ water originally diverted. Similarly, modern water-control structures significantly shorten the time needed to manage the ditch while lending the landowner greater control over flow rates and water levels. A new headgate contributes to these efficiencies and is much more fish friendly, allowing passage even during diversion events. New feeder ditches carry water to portions of the meadow that were difficult to irrigate and were converting back to upland habitat. The increase in production provides thicker cover for breeding waterfowl and provides habitat for amphibians deeper into their breeding season. A suitable site is found for storage of irrigation water in a shallow-water impoundment, further securing a water supply for brood-rearing waterfowl, foraging shorebirds, and amphibians.

These sorts of water conservation activities planned under this phase of the Program will boost

Charter.

agricultural economic activity in Jackson County by increasing hay and forage production. As noted in the NPB non-consumptive needs assessment, economic opportunities borne from the increase in wildlife populations anticipated under the program are also beneficial to the County.

Agriculture in North Park provides significant benefits to wetland-dependent wildlife species, especially breeding waterfowl. Irrigated hay meadows and pasture consisting of hydrophytic forbs and grasses are closely associated with the several small rivers that drain the basin, including the Illinois, Michigan, Canadian, and North Platte. These riverine-associated meadows provide a high-quality matrix of habitats conducive to successful breeding in waterfowl and other waterbirds. Importantly, short growing seasons force delayed haying and grazing into later periods of the growing season, which allows the tens of thousands of breeding ducks in the Park ample time to complete their nesting activities. Wetland-dependent wildlife species will benefit by the increase in flooded habitats located in the NPB.

Projects identified and planned under this phase of the program will increase the quantity of shallow-water wetland habitats in the Park, it will increase their quality, and it will improve the connectivity of the habitats, especially important for broods moving amongst the wetland complexes found in the NPB. North Park is the second most important waterfowl nesting region in Colorado and these additional wet meadow acres will help secure this position. Arapaho National Wildlife Refuge, Hebron Slough Wetland Management Area and a number of Colorado Division of Wildlife lands have become major attractions for waterfowl hunting and bird viewing. These are properties where DU has already delivered similar rehabilitation projects and illustrate the manifold benefits derived from such water-related conservation activities. In addition to the recreational values provided by these wetland projects, flood control, removal of sediments, attenuation of river flows, removing harmful chemicals, and providing harbors for biodiversity also arise from wetland conservation.

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- 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)

This is not a request for funds from the Statewide Account. However, we demonstrate direct cash match of more than two partner dollars to each WSRA dollar.

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.)

Not Applicable

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.

The Program will focus on fully developing existing decreed irrigation water rights. Not surprisingly, ninety-eight percent (98%) of the ditches in the Park contain some sort of wetland habitat. Irrigation infrastructure improvements within these ditches can extend the utility of existing diversions for irrigators and for wildlife populations in both extent and in time. However, new water rights will be secured for projects where additional irrigation, storage or wildlife habitat can be developed without negatively impacting existing land use, critical habitats, or important plant communities. All rights developed or secured under the Program are subject to the Prior Appropriation doctrine as administered by the State of Colorado.

The planned work will allow an assessment of the viability of irrigation improvements. It is not now possible to determine the location and yield of affected waters until we integrate information supplied by the NPB Nonconsumptive Needs Assessment and the North Park River Surface Water Model with land use and habitat information. Indeed, an important output of the Program is the location of diversions with sufficient yield to simultaneously improve agriculture and waterfowl habitat on potentially irrigable lands as permitted under the Decree. An outcome of the proposed assessment will be a list of water supplies, decreed rights and enhanced acreages for each of the four to five project site plans fully developed within this first phase.

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

For more than ten years, DU has worked in North Park delivering waterfowl conservation projects that depend upon functional water-delivery systems. We have worked on both public and private lands to increase waterfowl habitat quality in the park, primarily through the installation of irrigation improvements

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and shallow-water impoundments. Between 2003 and 2007, we worked with multiple conservation partners and private landowners to improve the capacity and delivery efficiency of the Independence and Pleasant Valley ditches. The proximate result of this work was the ability to carry and store more water in the Big Creek and Lake Creek watersheds, respectively. The ultimate result, and our aim, was the improvement and expansion of irrigated meadows in the Boetcher Lakes wetland complex. In 2009, DU delivered two conservation projects (one on public land and one on a private ranch) where improvements in waterfowl habitat were accomplished through the renovation of water delivery apparatus. Headgate replacement, flume installation, and ditch rehabilitations were applied to areas that had high potential for waterfowl use, but suffered from inefficient water delivery. Our improvements were geared towards increasing habitat suitability, but they also resulted in an increase in forage production on the sites (this was especially important on the private ranch). We, along with our partners in conservation, have developed a strong track record in delivering water conservation projects that serve dual purposes and have evidence of their effectiveness.

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.

Statement of Work

WATER ACTIVITY NAME – NORTH PARK IRRIGATED MEADOW CONSERVATION PROGRAM – PHASE I

GRANT RECIPIENT – Ducks Unlimited, Inc.

FUNDING SOURCE – WSRA: North Platte Basin Roundtable Allocation

INTRODUCTION AND BACKGROUND

The rehabilitation of irrigation systems in North Park will increase the vitality of the area's agricultural economy through increased yields and heightened efficiencies. It will also benefit wetland-dependent wildlife species inhabiting the park, especially the breeding waterfowl population found there, by providing more reliable, higher quality and more interconnected wetland habitats. Using established resource information, Ducks Unlimited, Inc. will assess the viability of a number of irrigated meadow restoration projects such that those with the most benefits for both consumptive and nonconsumptive water users are identified and, subsequently, developed. We will work with landowners, wildlife groups and the local water community to assess, design, and permit these projects. The goal of this first phase of the project is to develop a portfolio of project plans that we can present to diverse funding partners, including the North Platte Basin Roundtable, for funding of the infrastructure work. The result will be the more efficient use of existing water supplies as well as a fuller utilization of the irrigated meadow acreage allowed under the North Platte Decree. This will secure both the economic and ecological benefits an increase in irrigated meadows in the park bestows on its landowners, citizens and the public.

OBJECTIVES

- 1.) Integration of existing water supply and habitat studies in the NPB;
- 2.) Identification of high-priority irrigated meadow restoration areas;
- 3.) Outreach to willing landowners in high-priority restoration areas;
- 4.) Development of feasibility for specific properties within high-priority restoration areas;
- 5.) Development of plans, budgets, permits and schedules for suitable project sites;

TASKS

TASK 1 – MODELING

Description of Task

Existing resource data will be integrated with models produced by the CWCB and the NPBRT to identify priority areas for irrigated wet meadow conservation. These areas will be the focus of outreach and further conservation work. While extensive work has been done to identify potentially irrigable lands, water supply availability, potential habitat and land ownership, the whole of these datasets have not been integrated in such a way as to highlight areas of the NPB where water supplies could be put to use on additional irrigated lands. The intent is to provide a basin-wide synopsis of priority areas where Program funds can be most effectively applied.

Method/Procedure

DU will work with the NPBRT, the Colorado Division of Wildlife, the Colorado Natural Heritage Program and other stakeholders to develop a spatially-explicit model highlighting priority areas for irrigated meadow conservation. Data from the nonconsumptive needs assessment, the NPB Surface Water Model, and other resource data will be analyzed by Geographic Information System to guide conservation efforts. Model outputs will be intersected with land ownership data in the County to identify potential landowners. Conversely, landowners already interested in the Program will be apprised of the potential for irrigated meadow conservation on their properties. Subsequently, DU will work with our conservation partners, members of the NPBRT, and the Water Conservation District to contact landowners in high-priority areas and inform them of opportunities for project planning under the Program.

Deliverable

- 1.) Thunderstorm map of priority irrigated meadow areas
- 2.) Map of potential Program project sites
- 3.) Contact list of potential Program landowners
- 4.) North Platte Basin Roundtable Board Review and Approval of Map
- 5.) Outreach to potential Program landowners

TASK 2 – SITE ASSESSMENTS

Description of Task

Site visits to potential project sites will be made to assess project scope, viability, cost and potential impacts on existing land use. A portfolio of potential projects in the NPB will be developed. While many landowners in the Park have expressed interest in cooperative projects, no systematic effort to identify and meet with all potential landowners has been done. Information is also lacking on specific practices needed to improve qualifying tracts to benefit irrigators and waterfowl. This task will provide an equitable approach allowing all qualifying landowners an opportunity to participate in the program with standard reports on project scope, cost and schedule.

Method/Procedure

DU biologists and engineers will schedule site visits with interested landowners in the NPB to assess the current condition of irrigated meadows, appurtenant water-delivery systems, and water availability under existing rights. A project plan will be produced for each project that outlines project objectives, expected benefits, the scope of necessary work to achieve those benefits, and assessment of necessary permits required to begin that work. The budget presented in this application will provide enough funding for 10-15 site visits, depending upon the size and complexity of the properties identified in Task 1.

Based on this information a set of four to five projects will be selected for further development. These projects will be selected based upon estimated benefits gained from the development, both consumptive and nonconsumptive. Other factors to be considered will be available water supply, project cost, and potential negative impacts project development could have on existing land and water use, wildlife populations, or plant communities. Longevity of proposed improvements will also be assessed.

Remaining projects will be fully developed in subsequent years.

Deliverable

6.) Potential Program project portfolio

- i. Project conceptual plan
 - ii. Project water supply
 - iii. Project provisional budget
 - iv. Project stipulations and challenges.
- 7.) Potential Program project prioritization list
- 8.) North Platte Basin Roundtable Board Review and Approval of Program project portfolio and project prioritization list.

TASK 3 – PRIORITY PROJECT SURVEY AND DESIGN

Description of Task

Four to five projects identified in the Site Assessments task will have detailed project plans developed. These project plans will serve as the basis for requests to upcoming funding requests for applications. The intent of this phase is to have four to five detailed plans ready for deployment should project funding be secured.

Method/Procedure

Certified DU engineering staff will survey priority meadows and existing irrigation infrastructure. A topographic map will be generated which will serve as the basis for irrigation improvements. DU staff will use the survey and topographic map information to develop detailed project plans based on objectives obtained in Task 2. Professional CAD drawings of the scope of work, design of necessary project structures, and detail drawings of project infrastructure will be produced and made available to the landowner. Additionally, DU biologists will identify potential funding sources for the designed work and develop a schedule of requests to achieve the necessary level of funding to accomplish the project.

Deliverable

- 9.) Topographic Maps
- 10.) Designs
- 11.) Project Plans
- 12.) Project Funding Plan

13.) North Platte Basin Roundtable Board Review of priority project plans

TASK 4 – ASSESSMENT AND PERMITTING

Description of Task

Each of the four to five projects designed in Task 4 will undergo a thorough assessment regarding potential negative impacts the project may have on existing land and water use, wildlife populations, plant communities and other environmental concerns. This assessment will consider the impact of the project on Colorado's administration of its irrigation and storage allowances under the Decree, the Platte River Cooperative Agreement, and the NPB Nonconsumptive Needs Assessment. Further, this assessment will identify all necessary permits required for the project to move forward. These include both state and federal permitting requirements. If possible, said permits will be secured. The intent of this task is to assure all stakeholders that irrigation development accomplished under the Program will not abrogate existing law, rule and policy protecting the water, land, and wildlife resources of the State of Colorado and the federal government.

Method/Procedure

For each of the priority projects identified in Task 2, DU staff and their agents will work with the landowner to identify the impacts expansion of their irrigated acres may have. Existing land use and the wildlife and plant communities that rely upon that use will be recorded. To the extent that reliable data and analyses exist that can predict wildlife and plant community response to diversions planned in Task 3, those responses will be noted in the project plan. If a significant, negative response is found to be likely alternatives to the planned irrigation improvements will be identified. This land use assessment will attempt to take into consideration the multiple scales at which land use changes impact wildlife and plant communities. Similarly, a water use assessment will be used to determine the negative impacts, if any, of water diversions on the stream flows and habitats for each of the projects identified in Task 2. Acting on behalf of the willing landowner, DU will engage the expertise of the landowners, our conservation partners, representatives of federal land management agencies, the members of the NPBRT and its Nonconsumptive Needs Assessment committee, and other stakeholders to identify concerns and alternatives to project plans.

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For each of the priority projects identified in Task 2, DU will work with the landowner to identify which permits will be necessary to ensure speedy project development. If a federal nexus exists, necessary permits include National Environmental Protection Act clearance, Endangered Species Act clearance, Clean Water Act clearance, National Historic Preservation Act clearance, and any additional permissions deemed necessary under the Platte River Cooperative Agreement. Additionally, if the project design is based upon a new water right, this will be noted in the project plan and the necessary legal and engineering work to secure that water right will be identified. If possible any of these permits will be secured to ensure the project is prepared for construction after funds have been secured.

Deliverable

- 14.) Land use assessment
- 15.) Water use assessment
- 16.) Permit docket with instructions and schedule
- 17.) North Platte Basin Roundtable Board Review of project assessments

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BUDGET

TOTAL COSTS							
Task	Labor		Other Direct Costs		Matching Funds		Total Project Costs
Modeling	\$	1,752	\$	-	\$	-	\$ 1,752
Site Assessment	\$	4,000	\$	48	\$	15,000	\$ 19,048
Survey and Design					\$	11,202	\$ 11,202
Assess/Permitting	\$	4,882	\$	7,500	\$	11,378	\$ 23,760
Total Costs	\$	10,634	\$	7,548	\$	37,580	\$ 55,762
Indirect (<10%)	\$	1,063	\$	755	\$	3,758	\$ 5,576
Total Request:			\$ 20,000				\$ 61,338

PROJECT PERSONNEL COSTS								
Personnel:	Biologist	Engineer	Program Manager	Technician I				Total
Tasks	\$73.00	\$73.00	\$73.00	\$62.00				
Modeling	24							24
Site Assessment	120	120						240
Survey and Design		38		120				158
Assess/Permitting	80		40					120
Modeling	\$ 1,752	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,752	
Site Assessment	\$ 8,760	\$ 8,760	\$ -	\$ -	\$ -	\$ -	\$ 17,520	
Survey and Design	\$ -	\$ 2,774	\$ -	\$ 7,440	\$ -	\$ -	\$ 10,214	
Assess/Permitting	\$ 5,840	\$ -	\$ 2,920	\$ -	\$ -	\$ -	\$ 8,760	
Total Hours	224	158	40	120	0	0	542	
Direct Personnel Costs	\$ 16,352	\$ 11,534	\$ 2,920	\$ 7,440	\$ -	\$ -	\$ 38,246	

OTHER DIRECT EXPENSES							
Tasks	Items & Description		Est. Quant.	Unit	Unit Price	Total	
Site Assessment	Travel		944	MI	\$ 0.48	\$ 448	
	Lodging		18	DA YS	\$ 60.00	\$ 1,080	
Survey and Design	Travel		944	MI	\$ 0.48	\$ 448	
	Lodging		9	DA YS	\$ 60.00	\$ 540	
Assess/Permitting	Contractor Fees		1	LS.	\$ 7,500.00	\$ 7,500	
	Professional Fees		1	LS.	\$ 7,500.00	\$ 7,500	
						TOTAL DIRECT EXPENSE	
						\$ 17,516	

MATCH CONTRIBUTIONS							
Project Task	Sources	Grant \$\$	Match \$\$	In-kind \$\$	Total		
Modeling	WSRA	\$ 1,752			\$ 1,752		
Site Assessment	WSRA	\$ 4,048			\$ 4,048		
	CHRF		\$ 5,000		\$ 5,000		
	NA WCA		\$ 5,000		\$ 5,000		
	DOW		\$ 5,000		\$ 5,000		
Survey & Design	NA WCA		\$ 6,000		\$ 6,000		
	DOW		\$ 5,202		\$ 5,202		
Assessment/Permitting	WSRA	\$ 12,382			\$ 12,382		
	CHRF		\$ 11,378		\$ 11,378		
		\$ 18,182	\$ 37,580		\$ 55,762		
Indirect (<10%)	IND	\$ 1,818	\$ 3,758	\$ -	\$ 5,576		
Total		\$ 20,000	\$ 41,338	\$ -	\$ 61,338		

Water Supply Reserve Account – Grant Application Form

Form Revised March 2009

WSRA:	Water Supply Reserve Account	State of Colorado	Pending
CHRF:	Colorado Healthy Rivers Fund	State of Colorado	Pending
DOW:	DOW Wetlands Program Fund	State of Colorado	Pending
NAWCA:	North American Wetlands Conservation Act	Federal	Pending

SCHEDULE

Provide a project schedule including key milestones for each task and the completion dates or time period from the Notice to Proceed (NTP). This dating method allows flexibility in the event of potential delays from the procurement process. Sample schedules are provided below. Please note that these schedules are examples and will need to be adapted to fit each individual application.

Task	Deliverable	Start Date	Finish Date
1 MODELING			
	1 Thunderstorm map	Upon NTP	NTP + 30 days
	2 Map of potential sites	Upon NTP	NTP + 30 days
	3 Contact list of potential landowners	NTP +30 days	NTP + 45 days
	4 NPBRT Board Review & Approval	NTP +45 days	NTP + 60 days
	5 Outreach to potential landowners	NTP +45 days	NTP + 60 days
2 SITE ASSESSMENTS			
	6 Projects Portfolio	NTP +60 days	NTP +120 days
	7 Priority Project List	NTP +120 days	NTP +135 days
	8 NPBRT Board Review & Approval	NTP +120 days	NTP +150 days
3 PROJECT SURVEY AND DESIGN			
	9 Topographic Maps	NTP +120 days	NTP +150 days
	10 Designs	NTP +130 days	NTP +160 days
	11 Project Plans	NTP +130 days	NTP +180 days
	12 Project Funding Plan	NTP +120 days	NTP +180 days
	13 NPBRT Board Review	NTP +180 days	NTP +240 days
4 ASSESSMENT AND PERMITTING			
	14 Land use assessment	NTP +160 days	NTP +180 days
	15 Water use assessment	NTP +160 days	NTP +180 days
	16 Project permit docket	NTP +160 days	NTP +180 days
	17 NPBRT Board Review	NTP + 180 days	NTP +240 days

NTP = Notice to Proceed

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: Matthew A. Reddy, Regional Biologist

Project Title: North Park Irrigated Meadow Conservation Program – Phase I

Return this application to:

Mr. Todd Doherty
Intrastate Water Management and Development Section
COLORADO WATER CONSERVATION BOARD
1580 Logan Street, Suite 600
Denver, CO 80203

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

To submit applications by Fax, send to: (303) 894-2578

For questions, call Telephone No.: (303) 866-3426