

**DiNatale Water Consultants**  
**Scope of Work**  
**Rio Grande Cooperative Project**  
**October 18, 2012**  
**Introduction and Background**

The following SCOPE OF WORK has been developed for the Rio Grande Cooperative Project ("Project") that is being carried out by the San Luis Valley Irrigation District ("District") with funding assistance from the Colorado Water Conservation Board ("CWCB"). The Project's primary objectives are to store and regulate decreed water rights to better meet irrigation and augmentation demands, maximize the use of certain CPW water rights and to provide storage space in Rio Grande Reservoir for compact compliance. It is anticipated these objectives can be accomplished through the rehabilitation of Rio Grande Reservoir as well as coordination of future operations both within and between Rio Grande Reservoir and Beaver Park Reservoir.

The District owns the Rio Grande Reservoir, a 54,000 acre-foot pre-compact reservoir located on the mainstem of the Rio Grande River. Rio Grande Reservoir has several dam safety issues. The Rio Grande Reservoir rehabilitation is estimated to cost \$16 to \$25 million in 2012 dollars.

The District has previously conducted studies regarding operations of Rio Grande Reservoir. The Rio Grande Reservoir Multi-Use Project Studies (collectively "Multi-Use Studies") identified basin-wide benefits from the use of storage and re-operations of Rio Grande Reservoir. These studies also concluded that CPW can particularly benefit from storage in Rio Grande Reservoir as it relies upon storage to manage some of its water resources. In recent years, under a non-permanent lease agreement, CPW, the San Luis Valley Water Conservancy District and others have stored up to 10,000 AF of water in Rio Grande Reservoir. In addition, the benefits of compact storage for Rio Grande Compact compliance and basin administration were outlined. The Multi-Use Studies revealed that Rio Grande Reservoir must be rehabilitated in order to provide long-term regulation of CPW water rights and other basin water supplies as well as storage for compact compliance.

The District has recently been awarded a \$5 million grant from the Colorado Water Conservation to assist in the planning, permitting, design, Forest Service land exchange, development of storage agreements, construction and other activities in support of the rehabilitation of Rio Grande Reservoir. This grant is not sufficient to achieve the full rehabilitation, but provides important seed money to begin the process.

This SCOPE OF WORK is for DiNatale Water Consultants to assist the District in the role of overall Program Manager for the Rio Grande Cooperative Project and to perform or assist in specific tasks as described below.

## SCOPE OF WORK for the Rio Grande Cooperative Project

### Task 1 – Assistance with Negotiating a Land Exchange with the Forest Service

**Description of Task:** The purpose of this task is to assist with negotiating a land exchange with the Forest Service. The District would like to exchange part of its land near the reservoir for Forest Service land directly below the Rio Grande Reservoir dam. This task will be completed by the Rio Grande Cooperative Project Team (Project Team). The Project Team consists of the District, Western Land Group, Tod Smith, the District's attorney, Deere & Ault Consultants and DWC.

1. DWC will coordinate the efforts of the Project Team on securing a land exchange with the Forest Service. Western Land Group will be the lead on this effort.
  - a. Numerous meetings will be held with the Forest Service and Western Land Group to discuss the terms of exchange.
  - b. Development of an exchange proposal for the proposed land exchange.

**Task Execution:**  
The Project Team

**Assumptions:**  
Western Land Group will be the lead and primary contact with the Forest Service

#### **Major Deliverables/Products:**

1. Meetings with the Project Team and Forest Service about the land exchange.
2. Review and comment of the land exchange proposal prepared by Western Land Group.

### Task 2 – Feasibility Analyses and Permitting for the Land Exchange

**Description of Task:** The purpose of this task is to perform a feasibility analysis addressing the environmental, technical and political issues associated with the land exchanges as well as address any additional permitting issues associated with a 404 permit, if required. This work product will be prepared for submittal to the Forest Service and its Third Party Contractor (3PC) retained to prepare the Environmental Analysis (EA) for the land exchange. It is intended that work generated for this task can also be used by the Army Corps of Engineers (Corps) for the preparation of a 404 permit, if required, for the outlet works construction.



1. Conduct meetings with the Project Team, Forest Service and the 3PC, the Corps and stakeholders (local and state) to discuss and address any issues or information related to the EA.
2. Coordinate the development of an Environmental Assessment or supporting work of any other 3PC consultants
  - a. Identify and address all pertinent environmental permitting issues.
  - b. Conduct oversight of construction and permitting.
  - c. Provide information on flows from potential operations and develop any new modeling that may be required.
3. Coordinate with the Project Team and Corps on any 404 permitting, if required.

**Task Execution:**

DiNatale Water Consultants

**Assumptions:**

DiNatale Water Consultants will develop draft information that can be used by the Forest Service and its 3PC for preparation of the Environmental Assessment.

**Major Deliverables/Products:**

1. Development and submission of feasibility analysis and other information to the Forest Service and its 3PC for preparation of the EA.

**Task 3 – Stakeholder Coordination**

**Description of Task:** The purpose of this task is to inform stakeholders regarding the basin-wide benefits from the use of storage and re-operations of Rio Grande Reservoir. Stakeholder understanding of the need for and benefits of the dam rehabilitation project is important to the success of the project.

1. Conduct meetings and presentations with stakeholders about the benefits of the dam rehabilitation project.
  - a. Coordinate with local and state environmental organizations.
  - b. Provide presentations of modeled flows

**Task Execution:**

DiNatale Water Consultants

**Assumptions:**

**Major Deliverables/Products:**

**Task Execution:**

DiNatale Water Consultants

**Assumptions:**

All necessary data for model refinement and river administration will be provided.

**Major Deliverables/Products:**

1. Completed storage agreements with all pertinent parties.

**Task 6 – Program Management, Coordination and Reporting**

**Description of Task:** This task includes program management, grant administration and reporting, coordination of consulting team and meetings with CWCBC staff and other stakeholders as needed. Progress reporting to CWCBC will occur every 6 months.

1. CWCBC will be provided a progress report every 6 months, beginning from the date of the executed contract. The progress report will 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.
2. Project coordination meetings with the consulting team (Deere and Ault, attorneys and other consultants) and informational meetings with CWCBC staff will be held throughout the project.
3. Program oversight and work coordination amongst the Project Team will occur throughout the project.

**Task Execution:**

DiNatale Water Consultants

**Major Deliverables/Products:**

1. Progress reports and grant reimbursement requests to CWCBC.

# RIO GRANDE COOPERATIVE PROJECT BUDGET

		DiNatale Water Consultants Project Budget for Rio Grande Cooperative Project				
Tasks	DiNatale Water Senior Engineer	DiNatale Water Resources Engineer II	DiNatale Water Resources I/ Word Processing/ Graphic Design	Subtotal Hours	Subtotal Task	
	\$180	\$105	\$80			
Estimated Hours						
Task 1 – Assistance with Negotiating a Land Exchange with the Forest Service	120	80		200	\$30,000	
Task 2 – Feasibility Analyses and Permitting for the Land Exchange	240	120	100	460	\$63,800	
Task 3 – Stakeholder Coordination	120	60		180	\$27,900	
Task 4 – Storage Accounts and Operations (RiverWare) Modeling	120	240	60	420	\$51,600	
Task 5 – Storage Agreements	80	24		104	\$16,920	
Task 6 – Program Management, Coordination and Reporting	140	120	60	320	\$42,600	
	Subtotal Hours	820	644	220	1684	
	Subtotal Labor	\$147,600	\$67,620	\$17,600	\$232,820	
	Reimbursable Expenses	\$800	\$800	\$560	\$6,540	
	Total				239,360	



**DiNatale Water Consultants  
Reimbursable Expenses Rio Grande Cooperative Project**

Item:	Copies (Black & White)	Copies (Color)	Materials	Lodging and Meals	Mileage	Total
Units:	No.	No	Lump Sum	Lump Sum	Miles	
Unit Cost:	\$ 0.10	\$ 1.00			\$ 0.550	
Task 1 – Assistance with Negotiating a Land Exchange with the Forest Service				330	1,100	
Task 2 – Feasibility Analyses and Permitting for the Land Exchange	100	100	400	330	1,100	
Task 3 – Stakeholder Coordination	100	100	100	990	1,650	
Task 4 – Storage Accounts and Operations (RiverWare) Modeling	100	100	100	660	1,100	
Task 5 – Storage Agreements				165	550	
Task 6 – Program Management, Coordination and Reporting				0	200	
				0	0	
Total Units:	300	300	600	2,475	5,700	
Total Cost:	\$30	\$300	\$600	\$2,475	\$3,135	\$6,540

Materials and Equipment and Supplies include plotter maps, report covers and dividers, etc.

**DiNatale Water Consultants**  
**Project Timeline for Rio Grande Cooperative Project**

Task	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14
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