

June 7, 2016

Dolores Water Conservancy District
Attn: Ken Curtis, District Engineer
P.O. Box 1150
60 S. Cactus Street
Cortez, CO 81321

RE: Notice to Proceed – WSRA Grant – **POGG1 2016-511** – SW Colorado Weather Modification
Strategic Plan for Winter Snow Pack Augmentation

Dear Ken,

This letter is to inform you that the purchase order to assist in the above WSRA grant project that was recently approved at the March 2016 Board Meeting has been approved. The email notice and attachments serve as your original contract documents.

With the executed purchase order you are now able to proceed with the project and invoice the State of Colorado for costs incurred through July 31, 2018. Please provide the project name, POGG1 number, and basin when corresponding with or invoicing for your project. Upon receipt of your invoice(s), the State of Colorado will provide payment no later than 30 days after review and signed approval of the project manager.

If an extension to the project is necessary, a formal letter of request must be submitted to the project manager along with a proposed completion date **60 days** prior to the current expiration date. There will be no prior notice from the CWCB contract compliance staff informing the grantee that the project is approaching its deadline, therefore the grantee must monitor the completion progress accordingly.

If you have any questions or concerns regarding the project, please contact Joe Busto, Project Manager at 303-866-3441 x3209 or at joe.busto@state.co.us. You can contact me at 303-866-3441 ext. 3250 for invoicing and payment disbursement questions.

Thank you.

Sincerely,

//s//

Doriann Vigil
Program Assistant II
O 303-866-3441 ext. 3250
1313 Sherman Street, Rm. 719
Denver, CO 80203
Dori.vigil@state.co.us / cwcb.state.co.com

Attachments





STATE OF COLORADO
Department of Natural Resources

ORDER		** IMPORTANT **				
Number: POGG1 PDAA 20160000000000000796		The order number and line number must appear on all invoices, packing slips, cartons and correspondence				
Date: 05/23/16						
Description: WSRA GRANT PDAA 2500 Dolores Water Conservancy District		BILL TO COLORADO WATER BOARD CONSERVATION 1313 SHERMAN STREET, ROOM 718 DENVER, CO 80203				
Effective Date: 05/23/16 Expiration Date: 07/31/18						
BUYER		SHIP TO				
Buyer:		COLORADO WATER BOARD CONSERVATION				
Email:		1313 SHERMAN STREET, ROOM 718 DENVER, CO 80203				
VENDOR		SHIPPING INSTRUCTIONS				
DOLORES WATER CONSERVANCY DISTRICT PO BOX 1150 CORTEZ, CO 81321-1150		Delivery/Install Date: F.O.B: FOB Dest, Freight Allowed				
Contact: .		VENDOR INSTRUCTIONS:				
Phone: .						
Line Item	Commodity/Item Code	UOM	QTY	Unit Cost	Total Cost	MSDS Req.
1	G1000		0	0.00	\$55,620.00	<input type="checkbox"/>
Description: WSRA GRANT PDAA 2500 Dolores Water Conservancy District						
Service From: 05/23/16 Service To: 07/31/18						
TERMS AND CONDITIONS						
https://www.colorado.gov/osc/purchase-order-terms-conditions						
DOCUMENT TOTAL = \$55,620.00						

Exhibit A
Statement of Work
Date: December 15, 2015

WATER ACTIVITY NAME - SW Colorado Weather Modification Strategic Plan for Winter Snow Augmentation

GRANT RECIPIENT – Dolores Water Conservancy District (DWCD)

FUNDING SOURCE - Southwest Basin Roundtable WSRA grant

INTRODUCTION AND BACKGROUND

Provide a brief description of the project. (Please limit to **no more than 200 words**; this will be used to inform reviewers and the public about your proposal)

This project will lead a local group with interested outside parties (CWCB & LB) through a strategic planning effort. This project will specifically fund the technical support and some organizational support to complete the plan. The current 3 SW Colorado Cloud seeding areas are funded by \$151,900 local dollars and \$86,000 outside supporters to augment snow for improved ski / tourism conditions and improve the water supply. Significant advancements in the technology and equipment have been made over the last 15 years and the SW Basin area would like to bring these new technological improvements and modern equipment to our local program.

OBJECTIVES

1. Establish a local oversight group that can actively assist and support the cloud seeding program development and improvements, and to request new sources for additional funding. This group may only meet once per year or possibly only through conference calling to control travel & time commitment. This group should also actively coordinate with CWCB and the Lower Basin funding partners.
2. Contract with an appropriate independent weather modification professional to help a local group develop a strategic plan for the southwest Colorado programs. The plan will focus on program improvements and efficiencies, and assist the basin in meeting “gaps” identified in our Basin Implementation Plan by adding additional or augmented water supplies.

Item one is coordinated locally while the second goal is the reason for a SWBRT grant request.

TASKS

TASK 1 – Contractor Selection & Project Initiation

Description of Task: Strategic Planning Group (through DWCD) will solicit, review, select and contract with an appropriately qualified weather modification firm, individual or team. Upon selection successful contractor to visit with group and review specific scoping.

Method/Procedure: Group will seek Request for Proposals (RFP) through known professional organizations and known contacts through CWCB.

Deliverable: Suitable negotiated contract.

TASK 2 – Plume Studies

Description of Task: Contractor to conduct representative plume studies to guide other questions necessary to complete strategic plan.

Method/Procedure: Contractor to use suitable topographic information combined with technological proven and modern weather model to verify several representative storms that bring winter precipitation to the 3 SW Colorado target areas.

Deliverable: Modeling results that show likely affects & targets for specific cloud seeder locations.

TASK 3 – Existing Equipment Fleet Review

Description of Task: Inventory, map and evaluate existing program equipment type & placement, technology and practices.

Method/Procedure: Contractor to review past annual reports and work with WWC to compile detailed information.

Deliverable: Chapter in the final report.

TASK 4 – Review available new technologies and modernized equipment then prioritize with current cost information.

Description of Task: Contractor will assemble quotes and technical data into logical combined packages and sequence to maximum benefit to the cloud seeding programs. This should address operating, maintenance and replacement costs. This information should give some analysis to costs and benefits. Include a funding schedule that pairs logical upgrade packages in even dollar increments. Also include potential new locations to site new equipment.

Deliverable: Chapter in final report.

TASK 5 – Local meeting with strategic planning team to review draft Final Report, Exhibits and conclusions.

Deliverable: Notes on group discussion and follow up activities included in final report.

BUDGET

Provide a detailed budget by task including number of hours and rates for labor and unit costs for other direct costs (i.e. mileage, \$/unit of material for construction, etc.). A detailed and perfectly balanced budget that shows all costs is required for the State's contracting and purchase order processes. Sample budget tables are provided below. Please note that these budget tables are examples and will need to be adapted to fit each individual application. Tasks should correspond to the tasks described above.

	Contractor	DWCD Administrative Costs (3%)	Total Project Costs
Task 1 - Contractor Selection & Project Initiation	\$2,500		
Task 2 – Plume studies	\$37,500		
Task 3 – Existing Program Review	\$4,000		
Task 4 – Technology & Equipment Review	\$2,000		
Task 5 – De-brief meeting & final report	\$3,000		
Overhead (Travel, Publishing, Meeting Organization)	\$5,000		
Total Costs:	\$54,000	\$1,620	\$55,620

Note that though we haven't included in kind services, we expect significant participation from local funders, other local interested parties, CWCB and the LB. These will include communication, work product reviews and meetings.

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	Start Date *	Finish Date *
1 - Contractor Selection & Project Initiation	Upon NTP	NTP + 180 days
2 - Plume studies	NTP + 180 days	NTP + 365 days
3 - Existing Program Review	NTP + 365 days	NTP + 545 days
4 - Technology & Equipment Review	NTP + 365 days	NTP + 545
5 - De-brief meeting & final report	NTP + 545 days	July 2018

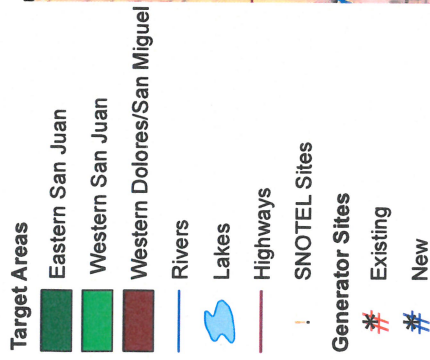
NTP = Notice to Proceed

*We have recognized an extended schedule over two (2) years. Although the contractor work probably does not require a full two years all parties are involved in the water business and the contractor may have a counter cyclic schedule in the winter season along with local ski area funders and WWC our local program operator. For these reasons combined with a dispersed group, we chose to extend the schedule to allow maximum participation.

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 5 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.

Weather Modification Sites and Target Areas San Juan/Dolores River Basins - Exhibit B



of Generators: 30

Target Area Coverage:

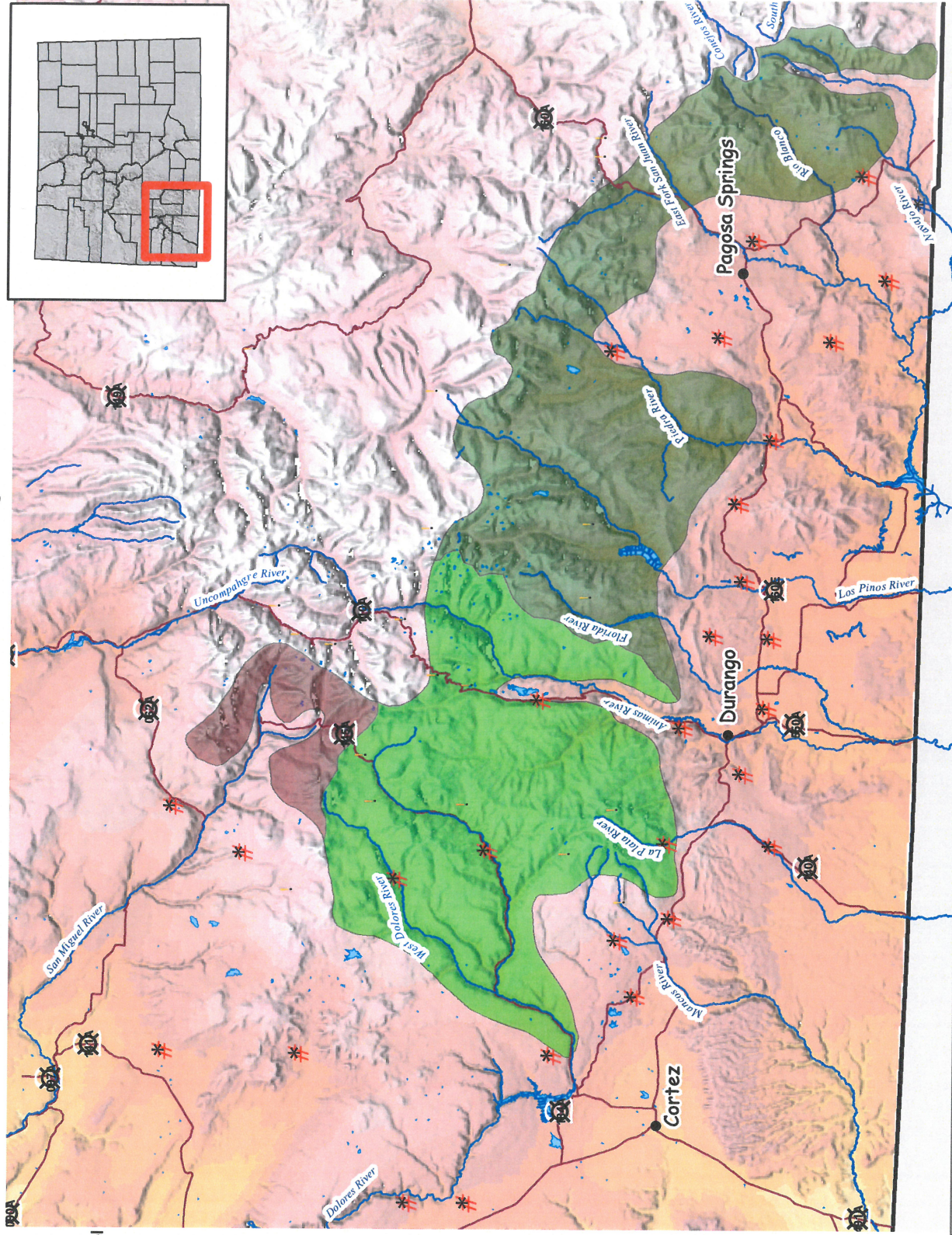
E. San Juan: 1100 sq miles

W. San Juan: 990 sq miles

W. Dolores/San Miguel: 147 sq miles



Map created by Carolyn Fritz
CWCB GIS Coordinator
September 28, 2007



Program Sponsors:
 Colorado Water Conservation Board, Southwestern Water Conservation Dist., New Mexico Interstate Stream Commission
 E. San Juan - SWCD, Pine River Irrigation Dist., Pagosa Area W & S, San Juan WCD
 W. San Juan - SWCD, Dolores WCD, Durango Mtn. Resort, Animas La Plata WCD, City of Durango