

MEMORANDUM OF AGREEMENT

**between the Department of Interior
Bureau of Reclamation
and the City of Santa Fe and Santa Fe County, New Mexico**

SANTA FE BASIN STUDY
**Santa Fe, Upper Rio Grande, and San Juan watersheds
WaterSMART Basin Study**

The United States Department of Interior, Bureau of Reclamation (“Reclamation”), the City of Santa Fe (“City”), and Santa Fe County (“County”) (the City and County are herein collectively referred to as the “Partners”) agree to work collaboratively to perform the Santa Fe Basin Study as part of the Department of the Interior’s WaterSMART Program Initiative. This Memorandum of Agreement establishes the terms that will guide the performance of the Santa Fe Basin Study.

ARTICLES

I. Definitions

- A. “Reclamation” means the United States Department of the Interior, Bureau of Reclamation.
- B. “Partners” mean City of Santa Fe and Santa Fe County.
- C. “Parties” mean Reclamation and Partners.
- D. “Agreement” means this Memorandum of Agreement.
- E. “Cost-Share” means a specific percentage (%) of identified costs that are allocated to Reclamation and Partners.
- F. “In-kind Services” means services provided by a non-Federal entity that substantially contribute to the completion of the work task or task identified.
- G. “Confidential Information” means trade secrets or commercial or financial information that is privileged or confidential under the meaning of 5 USC 552(b)(4).
- H. “Intellectual Property” means any invention that is legally protected through patents, copyrights, trademarks, and trade secrets or otherwise protectable under

Title 35 of the United States Code, under 7 USC 2321, et seq., or under the patent laws of a foreign country.

- I. “Key Personnel” means Dagmar Llewellyn, Jonne Hower, Mike Hamman, Carolyn Donnelly, Claudia Borchert, and Karen Torres.
 - J. “Subject Invention” means any invention or other intellectual property conceived or first reduced to practice under this Agreement which is patentable or otherwise protectable under Title 35 of the United States Code, under 7 USC 2321, et seq., or under the patent laws of a foreign country.
 - K. “Plan of Study” means those activities set forth in Attachment A.
 - L. “Term of Agreement” means that period set forth under the Section V herein.
- II. Plan of Study

This Agreement includes a detailed Plan of Study mutually developed by Reclamation and the Partners that enumerates study tasks and further defines responsibilities, processes, and methodologies. This Plan of Study is contained in Attachment A.

III. Authorities and Financial Obligations

1. Authorities: Nothing in this Agreement alters the statutory authorities or any other authorities of the Partners or Reclamation. This Agreement is intended to facilitate cooperative efforts for mutual provision of services and support, and technical assistance by both Parties in the conduct of meeting the objectives and scope of this Agreement. This Agreement does not supersede or void existing agreements between the Partners and Reclamation.

Reclamation’s authority to enter into this Agreement:

- a. Reclamation Act of June 17, 1902 (ch. 1093, 32 Stat. 388; 43 U.S.C. 372, et seq.) and acts amendatory thereof and supplementary thereto.
- b. Title IX of the Omnibus Public Land Management Act of 2009 (P.L. 111-11, 123 Stat. 991).

City’s authority to enter into this Agreement:

- a. City Resolution No. 2008-80 adopted the City’s Long Range Water Supply Plan (“Water Plan”) which developed by the Governing Body and City committees with input from the city’s residents. Impacts from climate change on water resources in the City are becoming better understood than when the Water Plan was first adopted.
- b. City Resolution No. 2011-17 directed staff to prepare revisions to the City’s Long Range Water Supply Plan for the Governing Body’s review, prepare a preliminary assessment for the Public Utilities

Committee of climate change impacts on the City's water supplies within six months of March 9, 2011, and bring necessary revisions to the Water Plan to the Public Utilities Committee for its review within sixteen months.

County's authority to enter into this Agreement:

- a. Joint Powers Agreement Act, NMSA 1978, § 11-1-1 et seq.

2. Cost Sharing: The costs of the Basin Study will be shared between Reclamation and the Partners. All or part of the Partners share may be provided as In-kind Services. Valuation of In-kind Services shall be in accordance with 2 CFR Part 225, Cost Principles for State, Local, and Indian Tribal Governments (OMB Circular A-87).

The cost of the Study is expected to be \$421,256, with 53% contributed by the Partners and 47% contributed by Reclamation.

3. Financial Obligations: This Agreement is not a funding document and does not authorize the obligation or transfer of funds. If a subsequently identified activity or project is identified that may require Reclamation to receive or expend funds received from the Partners for investigations, surveys, construction work, or any other development work incident thereto involving operations similar to those provided for by the Reclamation law, a supplemental Contributed Funds Agreement, pursuant to the Contributed Funds Act of 1921, 43 USC 395, will be executed.

4. Anti-Deficiency Act: All activities, responsibilities, and commitments made under or pursuant to this Agreement (including any Contributed Funds Agreement under this Agreement) are subject to the availability of appropriate funds and each Agency's budget priorities, as determined by each Agency, and neither the Partners nor Reclamation is obligated in any way under this Agreement to expend appropriations or to enter into any contract, assistance agreement, Contributed Funds agreement, or other financial obligation. No provision herein shall be interpreted to require obligation or payment of funds in violation of the Anti-Deficiency Act, 31 U.S.C. 1341.

IV. Publications, Reports, Confidentiality, and Intellectual Property

1. Publications: The parties understand and agree that this Agreement may be disclosed to the public in accordance with the Freedom of Information Act and the New Mexico Inspection of Public Records Act. Subject to the requirements of confidentiality and preservation of rights in Subject Inventions, either party may publish the results of this Agreement, PROVIDED:

- a. The other party is allowed to review the manuscript at least sixty (60) days prior to submission for publication by submission to the Authorized Agent.
- b. The publication shall acknowledge this Agreement and the contributions of each party's personnel.
- c. The final decision as to the publication content rests with the party that writes the publication.

2. Reports: The results of this Agreement and science, engineering, and technology data that are collected, compiled, and evaluated under this Agreement shall be shared and mutually interchanged by Partners and Reclamation. A final report summarizing all data shall be submitted to Reclamation and the Partners through the key personnel identified in Sections VI.14.A and B within the performance period of this Agreement, as defined in Section V.9.

3. Confidentiality: Any confidential information used in this Agreement shall be clearly marked confidential or proprietary by the submitter and shall not be disclosed by the Recipient without permission of the owner. To the extent either party orally submits its Confidential Information to the other party, the submitting party will prepare a document marked "CONFIDENTIAL" embodying or identifying in reasonable detail such orally submitted Confidential Information and provide the document to the other party within thirty (30) days of disclosure.

Neither party shall be bound by confidentiality if the Confidential Information received from the other party:

- a. Already is available to the public or known to the recipient;
- b. Becomes available to the public through no fault of the recipient; or
- c. Is nonconfidentially received from another party legally entitled to it.

It shall not be a breach of this Agreement if Recipient is required to disclose the Confidential Information by a valid order of a court or other government body, or as otherwise required by law, or as necessary to establish the rights of either party under this Agreement; PROVIDED THAT Recipient shall provide prompt prior notice thereof to Reclamation and the Partners to enable Reclamation or the Partners to seek a protective order or otherwise prevent such disclosure, and PROVIDED FURTHER THAT the Confidential Information otherwise shall continue to be confidential.

4. Intellectual Property: Unless otherwise agreed by the Agencies, custody and administration of inventions made as a consequence of, or in direct relation to, the performance of activities under this Agreement shall remain with the respective

inventing Party. In the event that an invention is made jointly by employees of the Parties or an employee of an Agency's contractor, the Parties shall consult and agree as to future actions toward establishment of patent protection for the invention.

V. Term, Amendment, and Termination

1. Term: This Agreement shall take effect upon the approval of the Parties and, unless terminated per Section V, Article 3, Termination, will expire on three years from the date of the last signature to this Agreement, unless amended.

2. Amendment: If any Party desires a modification in this Agreement, the parties shall confer in good faith to determine the desirability of such modification. Such modification shall not be effective until a written amendment is signed, and dated by the Parties.

3. Termination: Any Party may terminate this Agreement prior to its expiration at any time, with or without cause, and without incurring any liability or obligation to the other parties, by giving the other parties at least ninety (90) calendar days prior written notice of termination.

VI. General

1. Liability: It is understood and agreed that no Party to this Agreement shall be responsible for any damages or injuries arising out of the conduct of activities, acts or omissions, governed by and related to the performance of this Agreement, except to the extent that such damages and/or injuries were caused by the negligent or wrongful acts or omissions of its employees, agents or officers. Reclamation's liability shall be limited by the Federal Tort Claims Act, 28 USC 2671, *et seq.* The City and County's liabilities are subject to the limitations and immunities of the New Mexico Tort Claims Act, NMSA 1978, § 41-4-1 *et seq.*

2. Limitations: This Agreement sets out the Parties' intentions and objectives and does not direct or apply to any person outside the Partners and Reclamation. This Agreement is not intended to, and does not create, any right, benefit, or trust responsibility, substantive or procedural, enforceable at law or equity, by anyone against the United States, its agencies, its officers, or any person.

3. Notices and Key Personnel: Notices between the Parties and copies of correspondence among the scientific and/or technical representatives of each Party that interpret or may have a bearing on the legal effect of this Agreement's terms and conditions shall be sent to the Key Personnel listed below. Reclamation's Key Personnel is authorized to perform scientific and/or technical activities falling within the scope of this Agreement. The Key Personnel are not authorized to change or interpret with authority the terms and conditions of this Agreement.

A. Partners:

City of Santa Fe Water Division

Claudia Borchert

801 W. San Mateo, Santa Fe, NM 87505

(505) 955-4203; ciborchert@santafenm.gov

Santa Fe County Water Utility

Karen Torres

424 NM 599, Santa Fe, NM 87504

(505) 992-9871; ktorres@co.santa-fe.nm.us

B. Reclamation:

Bureau of Reclamation

Dagmar Llewellyn

555 Broadway, NE, Suite 100

Albuquerque, NM 87102

(505) 462-3594; dllewellyn@usbr.gov

Alternate:

Carolyn Donnelly

555 Broadway, NE, Suite 100

Albuquerque, NM 87102

(505) 462-3607; cdonnelly@usbr.gov

4. Subcontracting Approval: A Party hereto desiring to obtain and use the services of a third party via contract or otherwise shall give prior notice to the other Parties, including details of the contract or other arrangement. This requirement is to assure that confidentiality is not breached and rights in Subject Inventions are not compromised.

5. Assignment: Neither Party has the right to assign this Agreement or any of its responsibilities hereunder.

6. Endorsement: The Partners shall not in any way state or imply that this Agreement or the results of this Agreement is an endorsement by Interior, Federal Government, or Reclamation of its organizational units, employees, products, or services except to the extent permission is granted by an authorized representative of Reclamation.

7. Regulatory Compliance: All Parties acknowledge and agree to comply with all applicable laws and regulations of the state, Federal, and local environmental and cultural and paleontological resource protection laws and regulations as applicable to the activities or projects for this Agreement. These regulatory compliance requirements may include, but are not limited to, the National Environmental Policy Act (NEPA) the Council on Environmental Quality and

Department of the Interior regulations implementing NEPA, the Clean Water Act, the Endangered Species Act, consultation with potentially affected Tribes, and consultation with the State Historic Preservation Office.

8. Disputes: Any dispute arising under this Agreement, which cannot be readily resolved, shall be submitted jointly to the key personnel officials, identified in Section VI, Article 3, Notices and Key Personnel. Each party agrees to seek in good faith to resolve the issue through negotiation or other forms of nonbinding dispute resolution processes mutually acceptable to the parties. Pending the resolution of any dispute or claim pursuant to Section VI, Article 8, the parties agree that performance of all obligations shall be pursued diligently.

9. Force Majeure: No Party shall be liable for any unforeseeable event beyond its reasonable control not caused by the fault or negligence of such Party:

- a. Which causes any Party to be unable to perform its obligations under this Agreement; and
- b. Which it has been unable to overcome by the exercise of due diligence.
- c. This includes, but is not limited to, flood, drought, earthquake, storm, fire, pestilence, lightning and other natural catastrophes, epidemic, war, riot, civil disturbance or disobedience, strikes, labor dispute, failure or sabotage of either party's facilities or any order or injunction made by a court or public agency.

10. Relationship between the Parties: The Parties are and shall remain independent contractors and nothing herein shall be construed to create a partnership, agency, joint venture, or teaming agreement between the Parties.

11. Severability: The illegality or invalidity of any provision of this Agreement shall not impair, affect, or invalidate the other provisions of this Agreement.

12. Governing Law: The construction, validity, performance, and effect of this entire Agreement shall be governed by the laws applicable to the Government of the United States of America in accordance with applicable Federal Law as interpreted by Federal Courts, and applicable laws of the State of New Mexico.

13. Waiver: The failure of either party to enforce any term hereof shall not be deemed a waiver of any rights contained herein.

14. Invalid Provision: In the event any provision of this Agreement is determined to be invalid or unenforceable under any controlling law, the invalidity or unenforceability of that provision shall not in any way affect the validity or enforceability of the remaining provisions of this Agreement.

15. Entire Agreement: The terms and conditions contained in this MOA and its appendices or attachments constitute the entire agreement and understanding by and between the parties and shall supersede all other communications, negotiations, arrangements and agreements either oral or written, with respect to the subject matter herein.

16. Counterparts: This Agreement may be executed in duplicate and each original shall be equally effective.

For the Partners

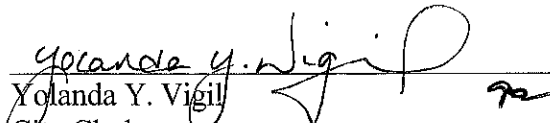
For the City:



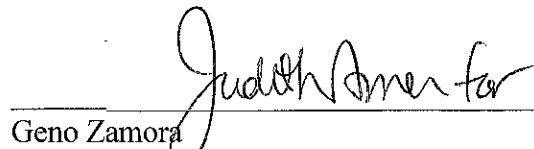
Robert P. Romero
City Manager

Date 10-26-11

Attest:



Yolanda Y. Vigil
City Clerk



Geno Zamora
City Attorney

Date 10/25/11

N/A


N/A

N/A

N/A

N.M. Taxation & Revenue
CRS #
City of Santa Fe Business
Registration #

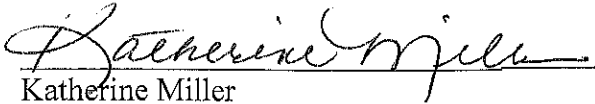
Approved:




Dr. Melville L. Morgan
Finance Director

50300-510300
Business Unit & Line Number

For the County:



Katherine Miller
Santa Fe County Manager

Approved as to form
Santa Fe County Attorney
By: 
Date: November 15, 2011

11.17.11

Date



Teresa Martinez
Finance Department

11/16/11

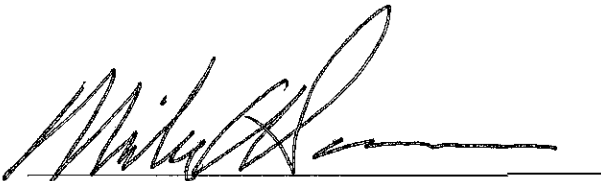
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For Reclamation

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Office of the Regional Solicitor

Date

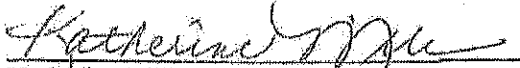


Mike Hamman
Area Manager

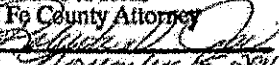
12/16/11

Date

For the County:


Katherine Miller
Santa Fe County Manager


11-17-11
Date

Approved as to form
Santa Fe County Attorney
By: 
Date: November 15, 2011


Teresa Martinez
Finance Department

11/16/11
Date

For Reclamation


Office of the Regional Solicitor

12-13-11
Date

Mike Hamman
Area Manager

Date

Attachment A

Plan of Study

I. Introduction

To increase the sustainability of their water supply, the City of Santa Fe (City) and Santa Fe County (County) water utilities have developed new surface water sources. Like many surface waters in the arid Southwest, however, both existing (Santa Fe River) and new sources (Rio Grande and the tributaries to the San Juan River) are vulnerable to climate-change-induced impacts. Through this Santa Fe Basin Study (Study) the City and County will work with Bureau of Reclamation (Reclamation) experts to better understand the future effects on and associated risks from climate change on surface water use in three sub-basins: the Santa Fe River watershed, the upper Rio Grande watershed (upstream from Otowi stream gage), and the San Juan River watershed, which is the source of water for the San Juan-Chama Project water.

Federal government involvement is critical to the success of this water planning effort, given the extensive Federal involvement in climate risk assessment and water management within the Rio Grande basin. Adaptation and mitigation measures considered in the Study may include optimizing the use of Federal facilities, intergovernmental agreements, or operational changes on the Rio Grande.

II. Objective

The objectives for this Study are: (1) to generally assess the projected impacts of climate change on the Santa Fe watershed and on the City and County's water supplies; (2) to quantify the potential impact of climate change on the potentially available water supply from each of the three sub-basins that supply surface water to the City and County; (3) to assess the vulnerability and possible shortcomings of the current long-range water supply strategies; and (4) evaluate and adopt new mitigation and adaptation strategies and integrate them into the region's water supply plan, as necessary.

III. Study Area

The Study will focus on the Santa Fe river watershed, Upper Rio Grande sub-basin (upstream of Otowi Gage), and San Juan River sub-basin (source of San Juan-Chama Project water). Each of these sub-basins is a source of surface-water supply for the City and County. The first two sub-basins are within the Rio Grande basin; the third lies within the Upper Colorado River basin (Figure 1).

IV. Existing Information

The Study will heavily rely on existing water supply data, reports, and information, some of which are identified below:

- Santa Fe supply and demand projections
- Santa Fe River historical stream flow records

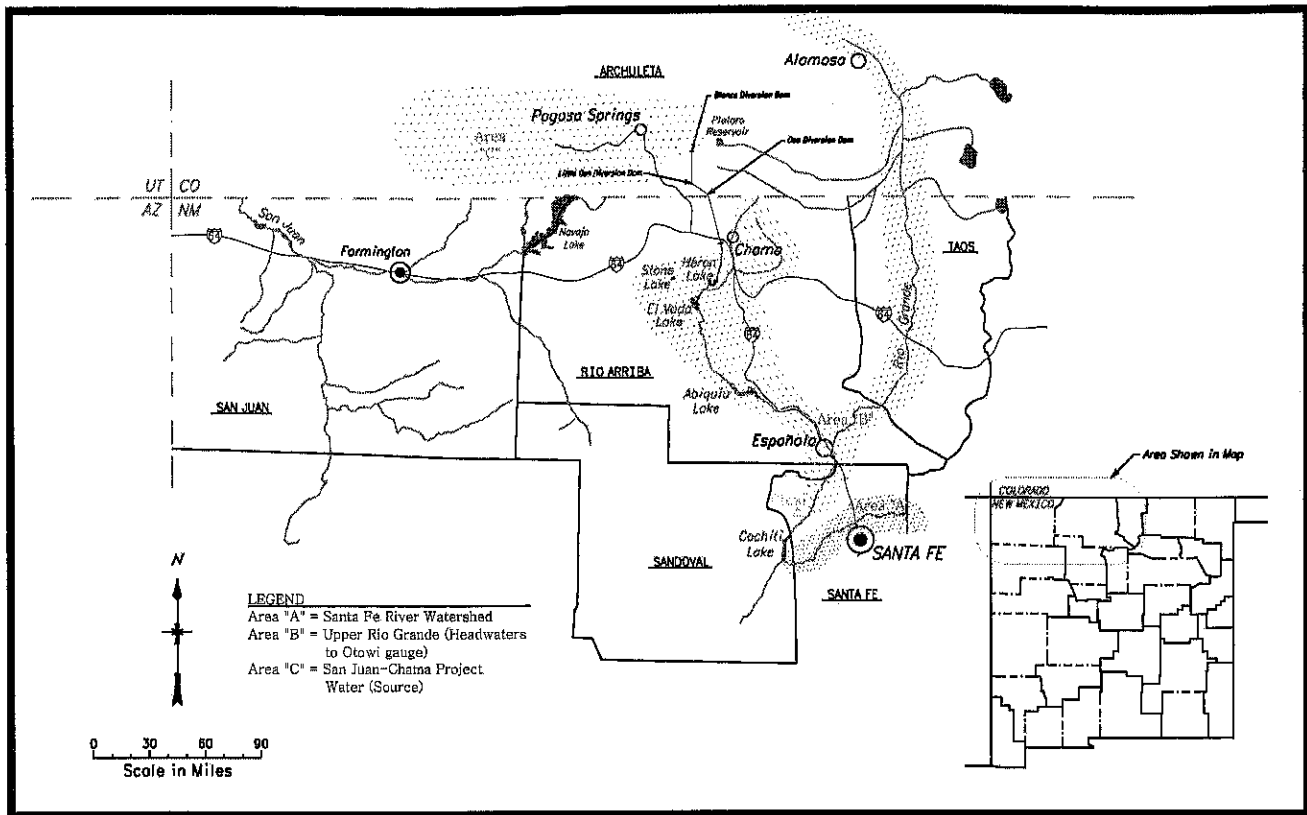


Figure 1. The Santa Fe watershed (shaded green) receives water supply from the Santa Fe sub-basin, the upper Rio Grande sub-basin (green stipple) and the San Juan - Chama River sub-basin (all green stipple).

- Precipitation data, including two SNOTEL weather stations and seven precipitation gages (1867- present)
- 500 and 700-year stream flow record reconstructed from tree ring data
- Current population and future projections
- Water storage data in the municipal reservoirs and reservoirs on the mainstem Rio Grande
- Groundwater level data from over 50 monitoring and private wells (1962 - present)
- Surface and groundwater production data by individual source from the City and County
- Seasonal demand factors derived from historic production by the City and County
- Per capita water use data from the City and County
- City treated effluent production and use data
- Operational costs for production by source from the City
- Acequia delivery requirements and use

V. Scope

The partners agree to accomplish this Plan of Study by completing the five tasks outlined below. The parenthetical following each task delineates which of the partners will be involved in the process. Bolded type indicates primary responsibility where several are listed.

1. Study preparation

- a. Compile supporting information, including information from the Upper Rio Grande Climate Risk Assessment, Upper Colorado River Climate Risk Assessment, recent

population data for the City and County, County water rights, water supply and future demand. (*City, County, and Reclamation*);

- b. Prepare preliminary assessment report of qualitative climate change impacts on water supply sources, ecosystems, quality of life, agriculture and local food production, landscapes and land use, and water demand (*City, County, and Reclamation*);

2. Prepare datasets

- a. Process and format projections from the VIC and URGSiM models from the Upper Rio Grande Climate Risk Assessment as needed for input into Santa Fe water management model (WaterMAPS). The climate risk assessment will identify the potential impacts of the predicted temperature and precipitation patterns on stream flow, reservoir evaporation, soil-moisture content and, indirectly, groundwater recharge. (*Reclamation*).
- b. Analyze San Juan-Chama firm yield, including the impact of increased evaporation loss and long-term carry-over storage at Heron Reservoir (*Reclamation*);

3. Update and enhance Santa Fe WaterMAPS model

- a. Incorporate range of hydrologic variability from paleoclimate streamflow record (tree-ring analysis performed in Santa Fe upper watershed) (*City/CDM*);
- b. Incorporate snowpack/runoff relationship (*CDM*);
- c. Incorporate County water rights, water supply, and demand projections (*County, CDM, City*);
- d. Develop simulations using climate-change-impacted hydrologic projections developed in Task 2 (*Reclamation*);
- e. Develop City and County demand projections under future climate change conditions by linking current demand to appropriate independent variables such as season, weather condition, population projections, and socioeconomics (*CDM*);
- f. Incorporate changes in magnitude and timing of available supply from the San Juan-Chama project (*City, CDM*);
- g. Establish future reservoir evaporation rates from Santa Fe basin reservoirs by developing a regression model as a function of mean monthly temperature (*City, CDM*);

4. Assess adequacy of current water supply plan strategies and watershed health under future climate-change-induced conditions

- a. Use updated WaterMAPS model to evaluate impacts of climate change on timing and magnitude of flows and supply imbalance, need and frequency of mandatory demand restrictions, reliance on groundwater beyond “sustainable” levels, and the long term feasibility of the 1,000 acre-foot allocation for Santa Fe ‘Living’ River Initiative (*City/CDM, County, Reclamation*);

5. Use updated WaterMAPS model to evaluate adaptation and mitigation options

- a. Develop and analyze options, then program options into WaterMAPS; revisit objective weighting of criteria by which options will be evaluated; evaluate options or option portfolios with WaterMAPS. Adaptation and mitigation options may include changes in operating rules, changes to agreements, aquifer storage and recovery using storm flows, excess BDD capacity, and/or unused water rights, increasing above-ground storage, treated

effluent use, increased conservation, and demand management (*City, County, Reclamation, CDM*);

- b. Prepare final report: Santa Fe Basin Water Supply Plan (*City, County, Reclamation, CDM*);

VI. Deliverables

Under the specific tasks of the Plan of Study, City, County, Reclamation, and consultants will prepare the following deliverables. Bolded type indicates primary responsibility where several are listed.

1. Study preparation

- Technical Memo summarizing how the data from the Upper Rio Grande Climate Risk Assessment has been used in this effort. (*Reclamation*)
- Preliminary Assessment Report: Climate Change Impacts on the Santa Fe Watershed and Mitigation and Adaptation Alternatives (***City, County, Reclamation, consultant***)

2. Prepare datasets

- Technical Memorandum identifying the data, method, and results of Reclamation's calculation of the potential San Juan-Chama Project Water firm yield under multiple future projected climate change conditions (*Reclamation*)

3. Update and enhance Santa Fe WaterMAPS model

- Technical Memorandum documenting the new input data for WaterMAPS with a description of the source and analysis of the data where appropriate (*City/CDM*)

4. Assess adequacy of current water supply plan strategies and watershed health under future climate-change-induced conditions

- Technical Memorandum documenting quantitatively how the Santa Fe water supply may be impacted under various projected climate change scenarios. (***City/CDM, County, Reclamation***)

5. Use updated WaterMAPS model to evaluate adaptation and mitigation options

- Santa Fe Basin Water Supply Plan that incorporates potential climate-change impacts, with adaptation and mitigation strategies. (***City/CDM, County, Reclamation***)

VII. Public and Stakeholder Involvement

Public and stakeholder involvement is a critical ingredient to the plan's success and is included throughout the Study. One of the desired outcomes of the public involvement is increased education in the region on the climate-change impacts. Numerous stakeholders at the federal, state, local and individual levels have expressed their support for the project and will be involved at key moments throughout the process, as described below:

1. Study preparation

- Workshop to gather information for preliminary assessment report. (*City, Reclamation*)

- One public meeting and website to gather adaptation and mitigation alternatives from in-basin stakeholders; presentation of Preliminary Assessment Report to City and County governing bodies. *(City, County, Reclamation)*

2. Prepare datasets

- Presentation of firm yield assessment to San Juan-Chama Contractors Association. *(Reclamation)*

3. Assess adequacy of current water supply plan strategies and watershed health under future climate-change-induced conditions

- Updates to Jemez y Sangre Regional Water Council and Espanola Basin Regional Issues Forum. *(City, County, Reclamation)*
- Follow up meeting with technical experts and interested stakeholders to identify and assess climate induced water supply impacts. *(City, County, Reclamation)*

4. Use updated WaterMAPS model to evaluate adaptation and mitigation options

- One meeting to share results with public. *(City, County, Reclamation)*
- Approval of regional water supply plan by City and County governing bodies. *(City, County)*
- Updates to Jemez y Sangre Regional Water Council, Espanola Basin Regional Issues Forum, and San Juan-Chama Contractors Association. *(City, County, Reclamation)*

VIII. Budget Estimate and Cost-Share

This Study is a 53 / 47 % cost share between non-Federal cost-share partners and the Federal Government, with the costs projection allocation as shown in the table below. The 53% non-Federal cost-share includes in-kind contribution of supporting stakeholders. The partners reserve the right to distribute costs and consultant funding amount tasks as the project progresses. The allocation of resources is subject to all the provisions previously addressed in this MOA.

Costs for City of Santa Fe and Santa Fe County Basin Study Proposal	City of Santa Fe:		Santa Fe County:		City of Santa Fe Contracts		Stakeholders (w/ EBRIF, SJC Contractors)		Reclamation:		Reclamation: Agreements/IDIC/Cooperators	
	Labor Hours	Value	Labor Hours	Value	Value	Contractor				Value	Contractor	Value
Task 1a: Study preparation - compile supporting information	12	\$864	14	\$700			15	\$750	10	\$809		
Task 1b: Study preparation- Preliminary Assessment Report	160	\$11,520	22	\$1,120					40	\$3,237		
Task 2a: Prepare data sets-develop climate change - impacted		\$0		\$0					30	\$2,428		Sandia National Labs
Task 2b: SJC firm yield analysis		\$0		\$0			20	\$1,000	610	\$50,000		
Task 3: Update and enhance WaterMAPS	200	\$14,400	56	\$2,800	\$55,000	CDM			20	\$1,618		
Task 4a: Assess climate change impacts on City and County water supplies	100	\$7,200	14	\$700	\$25,000	CDM	15	\$750	30	\$2,428		
Task 4b: Assess climate change impacts on Santa Fe watershed	80	\$5,760	11	\$560			40	\$2,000	60	\$4,855		SFWA, Earthworks, TNC, etc
Task 5a: Develop and analyze mitigation and adaptation options	400	\$28,800	112	\$5,600	\$40,000	CDM			80	\$6,474		\$80,000 CDM/ Sandia National Labs
Task 5b: Prepare Santa Fe basin Water Supply Plan	200	\$14,400	56	\$2,800			30	\$1,500	200	\$16,184		
Sub Total	1152	\$82,944	285.6	\$14,280	\$120,000			\$6,000	1079.76	\$88,032		\$110,000
Non-Federal/Reclamation												\$198,032
Non-Federal/Reclamation												47%
BASIN STUDY TOTAL												\$421,256

