RECLANATION Managing Water in the West

Public Scoping Meetings Arkansas Valley Conduit and Excess Capacity Master Contract Environmental Impact Statement



U.S. Department of the Interior Bureau of Reclamation August 16-19, 2010 Salida, Pueblo, La Junta, Lamar, and Fountain Colorado

Welcome!

- Plan for the Meeting
 - Open House
 - Presentation by Reclamation
 - Your Comments



Why Are We Here?



Our Key EIS Staff is in Attendance





What's All This "Alphabet Soup"?

- **EIS** = Environmental Impact Statement
- NEPA = National Environmental Policy Act
- AVC = Arkansas Valley Conduit
- Fry-Ark = Fryingpan-Arkansas Project
- STAG Report = State and Tribal Assistance Grant
- CDPHE = Colorado Department of Public Health and Environment



The EIS Will Be Conducted Based On NEPA Framework

- NEPA Requirements
 - Disclose Environmental Effects of Federal Actions
 - Assess and Consider Environmental Effects in Decision Making
- Environmental Impact Statement (EIS)
 - Purpose and Need
 - Alternatives Analysis (Including No Action)
 - Analyze Full Range of Direct, Indirect and Cumulative Effects
 - Public Comment (Scoping, Draft EIS)

Fry-Ark Project Made AVC Possible

- Trans-mountain diversion, storage and delivery project
- Signed into Law 1962; constructed 1964-1982
- Major Features
 - Five Major Dams and Reservoirs, tunnel, and powerplant
- Operations
 - Diverts 54,800 acre-feet/year
 - Provides Agricultural, Municipal and Industrial Water to
 - 12 counties
 - 200,000 acres of irrigated land
 - 650,000 people

AVC Would Serve the Lower Arkansas Valley

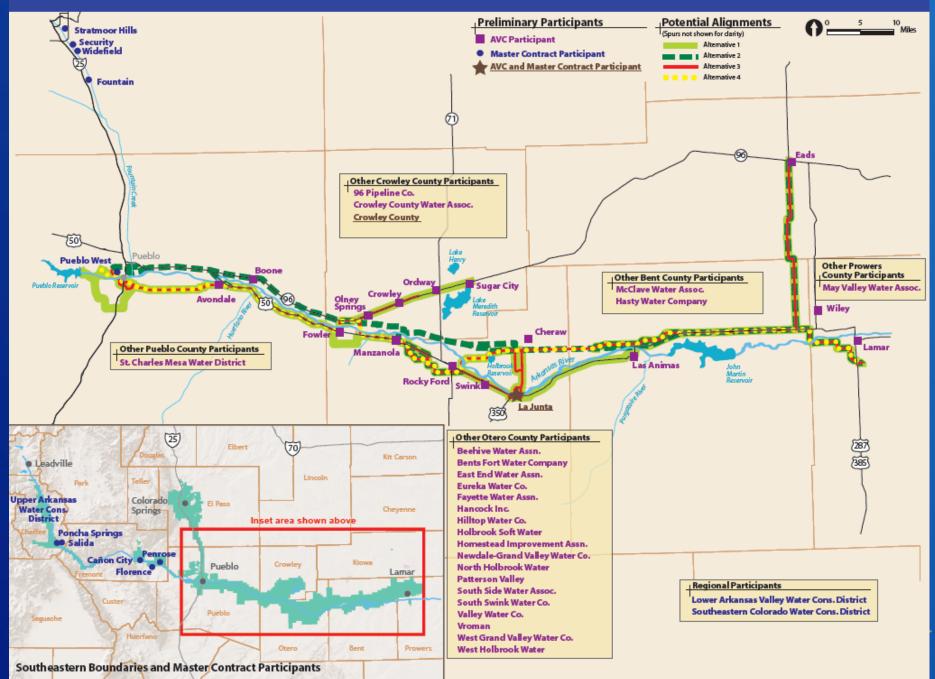
- Municipal Water Supply Pipeline
- Pueblo Reservoir to Lamar, Spurs to Other Users
- 41 Participants (Municipalities and Water Districts)

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- Mainline
 - 135 miles
 - 42-inch to 18-inch
- Spurs
 - 91 miles
 - 16-inch to 4-inch
- Capacity (TBD)
 - 14 mgd 20 mgd
 - 22 cfs 30 cfs
- Treatment

mgd = million gallons per day cfs = cubic feet per second

Arkansas Valley Conduit and Long-term Excess Capacity Master Contract, Fryingpan-Arkansas Project



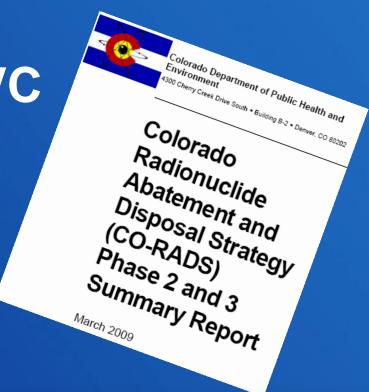
What Communities Could be Served by AVC?

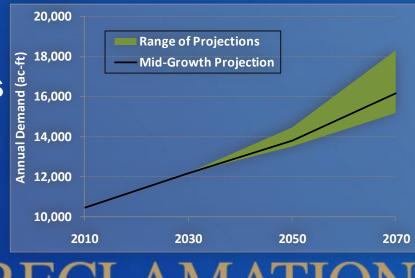
| | % of Annual | | | % of Annual |
|---------------------------------|-------------|--|------------------------------------|-------------|
| Participant | Deliveries | | Participant | Deliveries |
| Pueblo County | | | Otero County | 35% |
| Avondale | 1.4% | | Beehive Water Assn | 0.1% |
| Town of Boone | 0.4% | | Bents Fort Water Co. | 0.8% |
| St. Charles Mesa Water District | 25.6% | | Town of Cheraw | 0.6% |
| Crowley County | 12% | | East End Water Assn. | 0.1% |
| 96 Pipeline Co. | 0.2% | | Eureka Water Co. | 1.0% |
| Crowley County Commissioners | 4.1% | | Fayette Water Assn. | 0.2% |
| Crowley County Water Assoc. | 4.3% | | Town of Fowler | 1.5% |
| Town of Crowley | 0.2% | | Hancock Inc. | 0.1% |
| Town of Olney Springs | 0.7% | | Hilltop Water Co. | 0.3% |
| Town of Ordway | 1.5% | | Holbrook Center Soft Water | 0.2% |
| Town of Sugar City | 0.7% | | Homestead Improvement Assn. | 0.1% |
| Bent County | 7% | | City of La Junta | 18.2% |
| Hasty Water Company | 0.3% | | Town of Manzanola | 0.5% |
| City of Las Animas | 6.6% | | Newdale-Grand Valley Water Co. | 0.7% |
| McClave Water Assoc. | 0.5% | | North Holbrook Water | 0.1% |
| Prowers County | 16% | | Patterson Valley | 0.2% |
| City of Lamar | 10.6% | | City of Rocky Ford | 7.7% |
| May Valley Water Assoc. | 5.4% | | South Side Water Assoc. (La Junta) | 0.0% |
| Town of Wiley | 0.3% | | South Swink Water Co. | 1.1% |
| Kiowa County | 2% | | Town of Swink | 0.5% |
| Town of Eads | 1.7% | | Valley Water Co. | 0.5% |
| | | | Vroman | 0.4% |
| | | | West Grand Valley Water Inc. | 0.2% |
| Fotal | 100% | | West Holbrook Water | 0.1% |

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Purpose and Need - AVC

- Replace Existing Poor Quality Supplies
 - 12 CDPHE Enforcement Actions (Radionuclides)
 - Remaining Participants Have Poor Quality Supplies
- Provide Supplemental Supplies for Future Demands
 - Additional Demand (af/yr)
 - 3,100 to 4,000 (2050)
 - 4,700 to 7,900 (2070)





Master Contract Is About Storage

- Storage of Non-Project Water in Fry-Ark Project Storage Space
- Long-Term Master Agreement with Southeastern
- 15 Participants- All Use Within Southeastern Boundaries

Who Would the Master Contract Serve?

| | Annual Delivery |
|--|--------------------|
| Participant | (ac-ft) |
| Chaffee County | 3,200 |
| Poncha Springs | 200 |
| Salida | 2,000 |
| Upper Arkansas Water Cons. District * | 1,000 |
| Fremont County | 4,150 |
| Canon City | 1,000 |
| Florence | 2,250 |
| Penrose | 900 |
| Pueblo County | 5,000 |
| Pueblo West | 5,000 |
| El Paso County | 3,350 |
| Fountain | 1,000 |
| Security | 1,500 |
| Stratmoor Hills | 200 |
| Widefield | 650 |
| Otero County | 12,000 |
| La Junta | 2,000 |
| Lower Arkansas Valley Water Cons. District * | 5,000 |
| Southeastern Colorado Water Cons. District * | 5,000 |
| Crowley County | 500 |
| Crowley County | 500 |
| Total | 28,200 |

* Service area includes more than one county. Use limited to portion of District within Southeastern boundaries.

Purpose and Need – Master Contract

- Meet Existing and Future Storage Needs
 - AVC
 - Municipal/Domestic
 - Well Augmentation
- Spill Priorities Would Not Change

| Spill Order * | Storage Account |
|---------------|---|
| 1 | Entities Outside of District (Including Aurora) |
| 2 | If-and-When Storage |
| 3 | Winter Water (> 70,000 ac-ft) |
| 4 | Municipal non-Fry-Ark Project Water (including Master Contract) |
| 5 | Winter Water (< 70,000 ac-ft) |
| 6 | Native Arkansas River Basin Fry-Ark Project water |

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*First to spill is the first account in the list.

Alternatives Will Be Analyzed



Pipeline Alignments

- Routes through City of Pueblo
- Alternate Routes North and South of Arkansas River

Diversion Locations

- Pueblo Dam
- Arkansas River Below Pueblo Dam



Water Treatment Plant Locations/Treatment Levels

- Contracting with Board of Water Works of Pueblo
- New Water Treatment Plant



Various Water Supplies

- Fry-Ark Allocations/Return Flows
- Agriculture (Ditch Shares, Leases)



Storage of non-Project Water in Fry-Ark Space (Master Contract)

What If No Action Is Taken?

- Represents "Future Without Project"
- AVC
 - STAG Participant Survey

| STAG Option | Number of Responses |
|--|---------------------|
| Do Nothing, Continue Current Water Operations | 18 |
| Purchase other supplies | 7 |
| Construct a New or Additional Water Delivery System | 4 |
| Construct a New or Additional Water Treatment System | 9 |
| Regionalization | 7 |
| Haul Water | 1 |
| Individual Treatment at Tap | 5 |
| No Response | 7 |
| | |

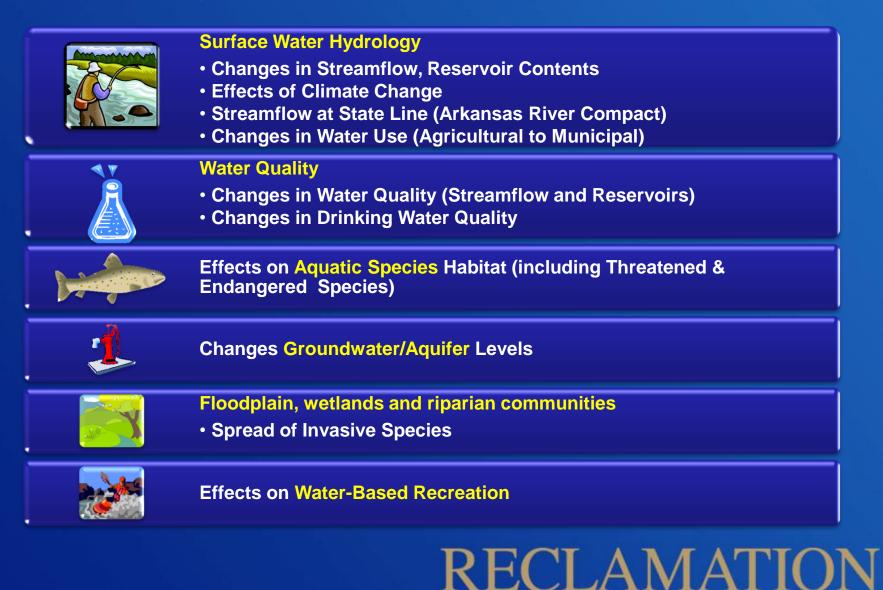
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(Some Participants Had Multiple Responses)

– CoRADS Study

- Master Contract
 - No Master Contract (Status Quo)

There May Be Water-Based Issues



There May Be Land-Based Issues





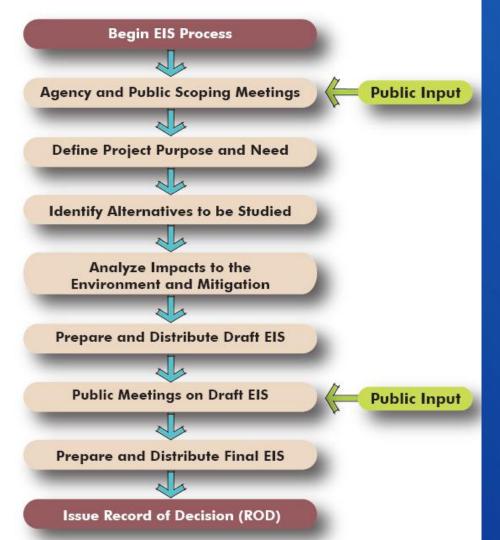
NEPA Related Issues

Reasonably Foreseeable Actions/Cumulative Effects

Compliance with Executive Orders, Federal, State and Local Statutes

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Substantive Issues and Comments Will Be Evaluated Over the Next Two Years



Your Specific Comments Are Encouraged

COUNCIL ON ENVIRONMENTAL QUALITY EXECUTIVE OFFICE OF THE PRESIDENT

A Citizen's Guide

to the NEPA

Having Your Voice Heard

DECEMBER 2007

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- Substantive Comments:
 - are specific in their criticism of analysis methods,
 - identify new information or an lssue,
 - raise a new alternative, or
 - explain how an alternative could be modified
- Resource Council For **Environmental Quality (CEQ)**
 - http://www.whitehouse.gov/a dministration/eop/ceg/

How Do I Get Involved?

- Project Website: www.usbr.gov/avceis
- Submit Comments to Signe Snortland:

J. Signe Snortland Bureau of Reclamation, Dakotas Area Office P.O. Box 1017 Bismarck, ND 58502

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E-mail: jsnortland@usbr.gov

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