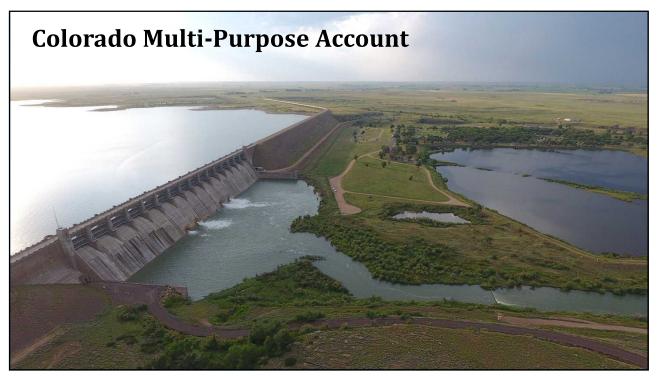
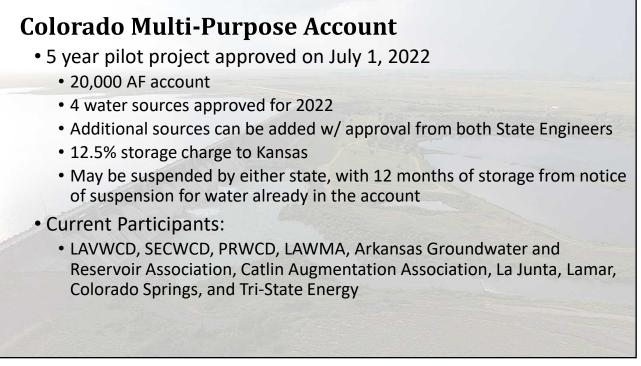


## Leasing-Fallowing Catlin Pilot Project • Approved to operate from 2015 through 2024 • Fallow up to 30% 10 out of 10 years • 1,098 Catlin Canal shares from 960 acres • Municipalities: City of Fountain and Security Water District • Delivered 2,519 ac-ft during the 8 years of operating Colorado Springs Utilities Pilot Project

- Approved to operate from 2020 through 2029
- Fallow 100% 3 out of 10 years
- 1,573 Catlin Canal shares from 1,449 acres
- Delivered 1,021 AF during 1 year of operating
- Municipality: Colorado Springs Utilities





7

## **Water Quality**

 Under Colorado's Section 303(D) list of impaired water waters, the mainstem of the river between JMR and the CO/KS state line is listed as impaired with a "high" priority level for Selenium and Uranium.

### COLORADO'S SECTION 303(D) LIST

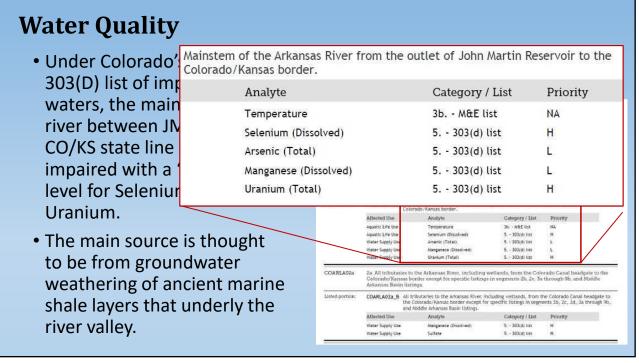
DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Water Quality Control Commission

REGULATION #93 - COLORADO'S SECTION 303(D) LIST OF IMPAIRED WATERS AND MONITORING AND EVALUATION LIST

5 CCR 1002-93

COARLAGIE	<ol> <li>Mainstem of the Arkansas River from the outlet of John Martin Reservoir to the Colorado/Kansas border.</li> </ol>			
Listed portion.	COARLADIC_A Mainstern of the Arkansas River from the outlet of John Martin Reservoir to the Colorado/Kansas border.			
	Affected Use	Analyte	Category / List	Priority
	Aquatic Life Use	Temperature	3b MILE Dist	NA
	Aquatic Life Use	Selenium (Dissolved)	5 303(d) lint	H
	Water Supply Use	Arsanic (Total)	5 303(d) lint	L
	Water Supply Use	Manganese (Dissolved)	5 303(d) list	L
	Water Supply Use	Uranium (Total)	5. · 303(d) list	н
COARLAGZa	2a. All tributaries to the Arkamass River, including wellands, from the Colorado Canal headgate to the Colorado Kanas border except for specific listings in segments 2b, 2c, 3s through 9b, and Middle Arkanass Basin listing.			
Listed portion:	COARLA02a_B All tributaries to the Arkansas River, including wetlands, from the Colorado Canal headgate to the Colorado Kanats border except for specific listings in segments 2b, 2c, 2d, 3a through 9b and Middle Arkansas Bashi Stitting.			
		Analyte	Category / List	Priority
	Affected Use	Anaryte	entedral . Fror	Summy
	Affected Use Water Supply Use	Manganete (Disolved)	5 303(d) list	н



9

## Water Quality

- Based off of 20+ years of research in the valley, Colorado State University recommends the following best management practices (BMPs) to reduce deep percolation and lessen shale weathering:
  - Canal/Ditch Sealing and Lining
  - Reduced Irrigation Application (sprinklers and drip)
  - Lease-Fallowing
  - Enhance Stream Riparian Areas
  - Nitrogen Fertilizer Reduction

## Water Quality – LAVWCD BMP Funding Sources LAVWCD Funding to implement the recommended BMPs: \$3.3 million from three Section 319 Grants from the CDPHE \$1 million in Supplement Environment Project funds resulting from a stormwater water quality lawsuit settlement w/ Colorado Springs Currently applying for additional 319 Grant funds

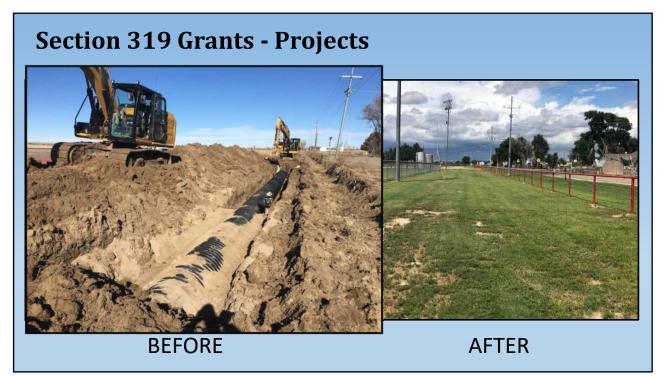
## Water Quality - BMPs Implemented

- 8 Sprinkler Pond Linings
- 1 Sprinkler
- 1 Drip Irrigation System
- 2 Lateral Ditch Lining
- 2 Lease-Fallowing Projects
- 2 Riparian Buffer Zones
- 2 N Fertilizer Reduction Projects



## Water Quality - BMPs to be Implemented

- 4 Sprinklers
- 3 Pond Linings
- 3 Lateral Ditch Lining
- 2 Lease-Fallowing Projects
- 2 Riparian Buffer Zones
- 2 N Fertilizer Reduction Projects



# <complex-block>

15



Monitor surface water and groundwater quality before and after



