

**Clark County  
Regional Flood Control District**

**Citizens Advisory Committee**

**February 1, 2021**



# Item # 8

- Action to adopt the flood control Master Plan Update for the Muddy River and Tributaries *(For possible action)*



# 2020 Flood Control Master Plan Update Muddy River and Tributary Washes

Clark County Regional Flood Control District  
**Presentation and Recommendations**

**ATKINS**

Member of the SNC-Lavalin Group

REGIONAL FLOOD  
CONTROL DISTRICT



# Master Plan Objectives

- NRS 543.596 requires that flood control master plans be reviewed and updated every 5 years.
- The purpose of the update (MPU) is to add new information, assess progress, identify obstacles, and recommend changes
- Previous updates completed in 1988, 1994, 2001, 2005, 2010, 2016



# Master Plan Process

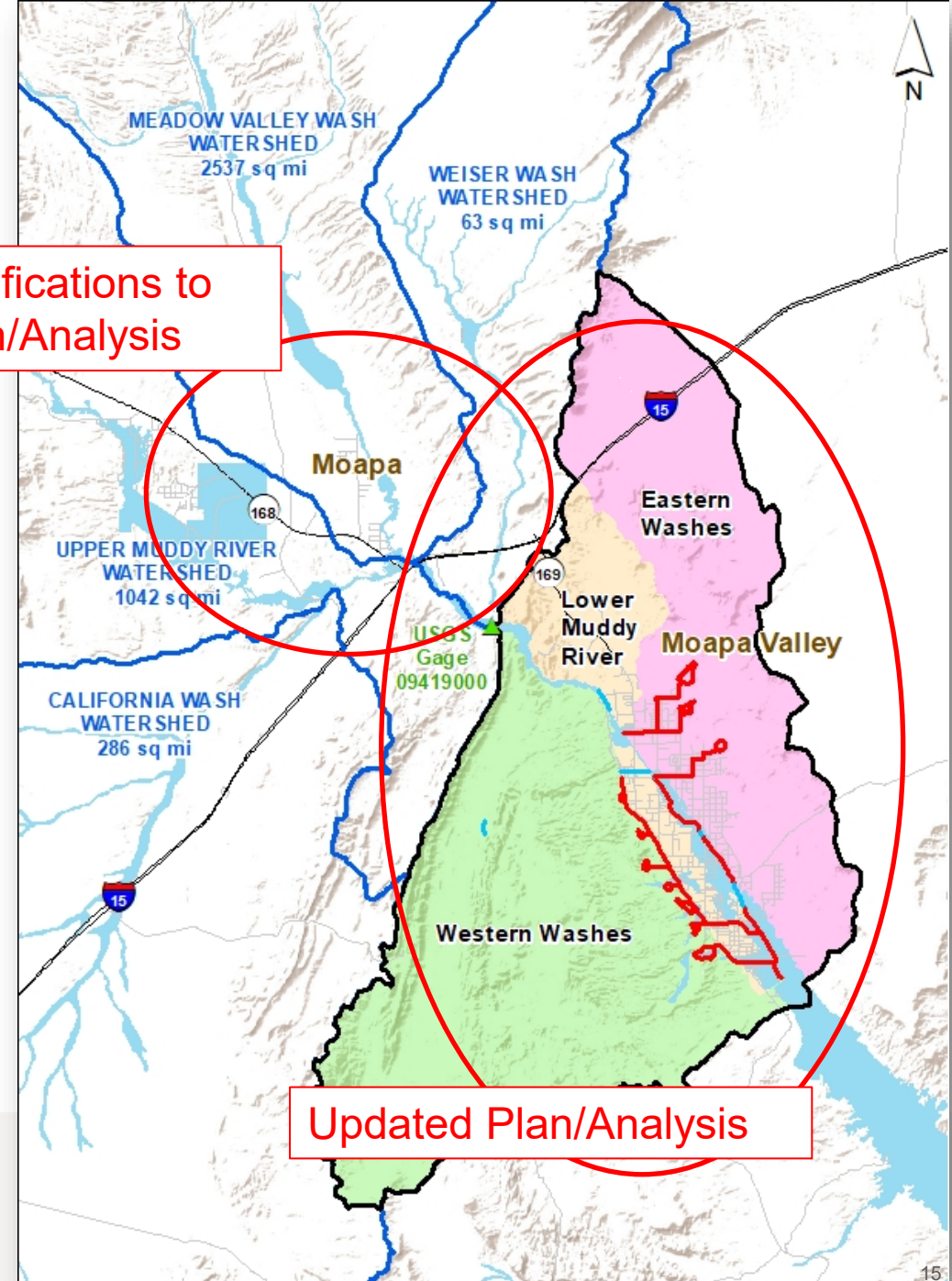
- Field investigations
- Data collection & review
- Input from CCPW & Maintenance Group
- Hydrologic and hydraulic analysis
- Addition/modification of regional facilities
- Cost estimate development



# Study Area

- Western Washes
- Eastern Washes
- Lower Muddy River
- Moapa

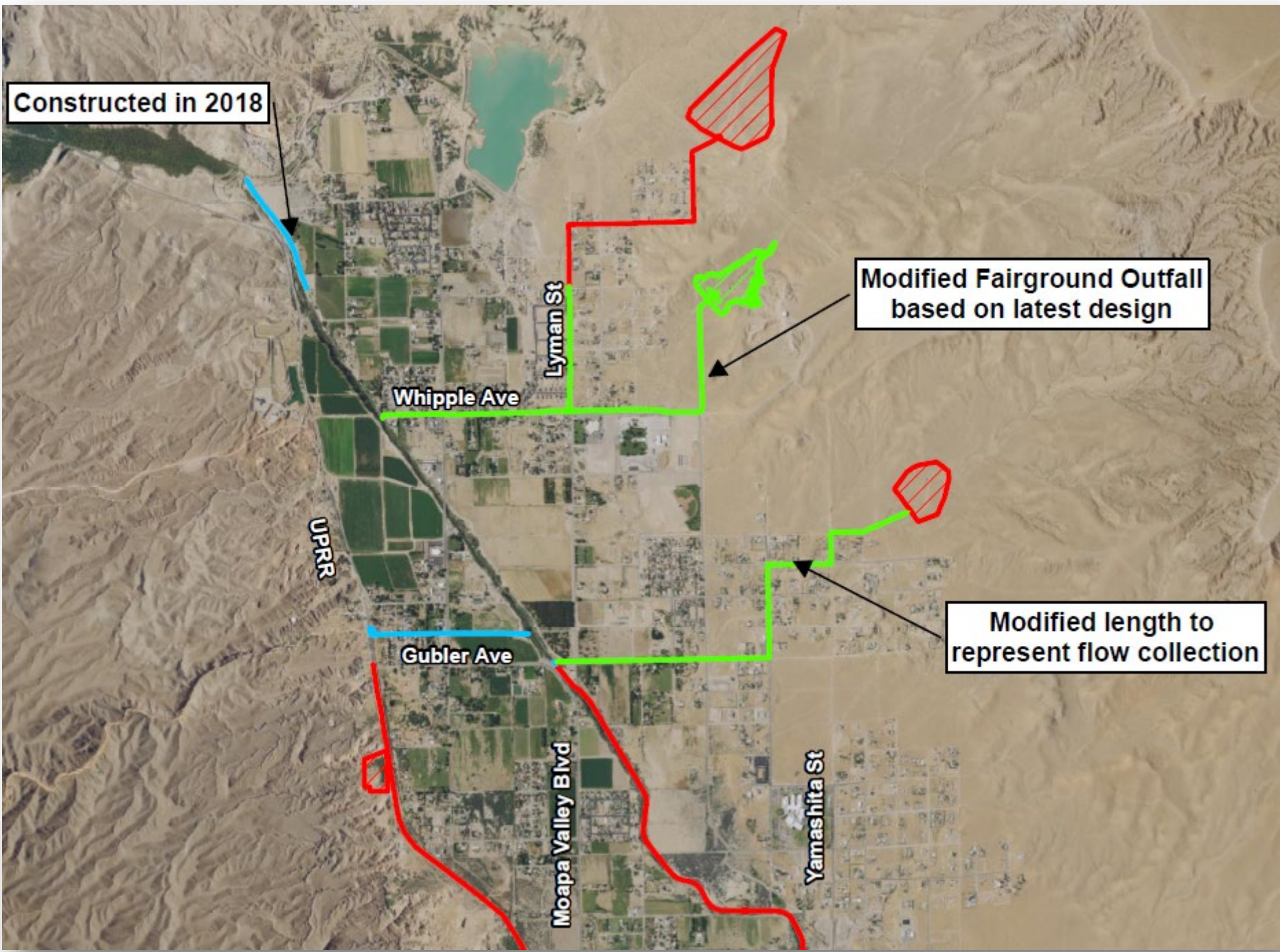
No Modifications to  
Plan/Analysis



Constructed in 2018




Modified Fairground Outfall based on latest design

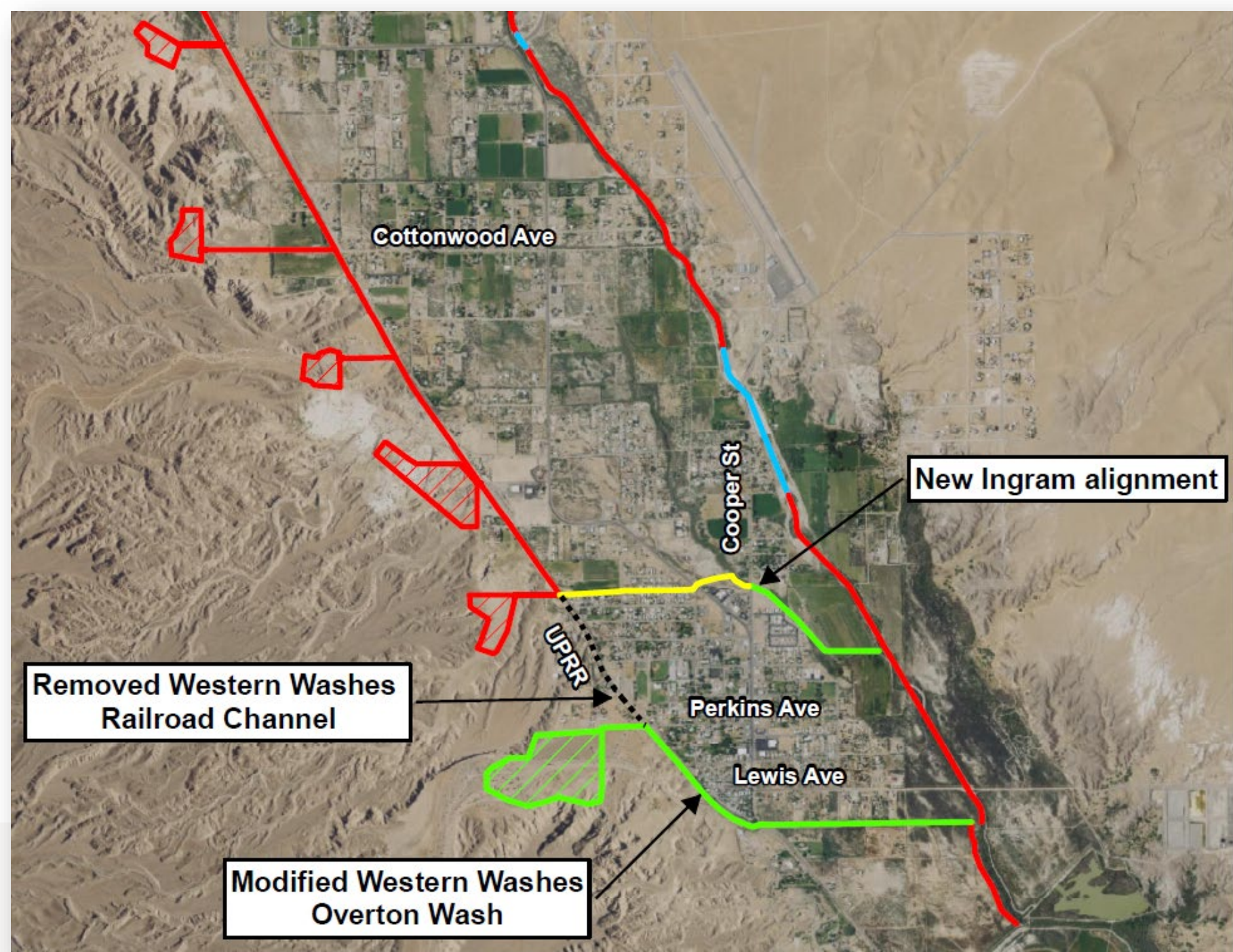
Modified length to represent flow collection



## LEGEND

### Regional Facility Status

-  Existing
-  Proposed
-  New
-  Modified
-  Removed



## LEGEND

### Regional Facility Status

- Existing
- Proposed
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- Modified
- Removed



# Cost Estimates

Total Value of Existing Facilities – **\$37.4 million**

Total Estimated Cost for Proposed Facilities – **\$ 158.6 million**

WATERSHED	EXISTING	PROPOSED			
	Total Value	Design & Admin Cost	Right-of-Way Cost	Construction Cost	Total Cost
	(\$ x 1000)	(\$ x 1000)	(\$ x 1000)	(\$ x 1000)	(\$ x 1000)
EASTERN WASHES	\$0	\$8,449	\$0	\$42,245	\$50,694
LOWER MUDDY RIVER	\$36,014	\$9,344	\$4,173	\$46,722	\$60,240
WESTERN WASHES	\$1,346	\$7,948	\$0	\$39,738	\$47,685
<b>Total</b>	<b>\$37,360</b>				<b>\$158,619</b>

# Action Needed

## Recommended approval

Adopt the MPU for the Muddy River and Tributaries and find that the MPU is the most effective structural and regulatory means for correcting existing problems of flooding within the area and dealing with the probable effects of future development and forward to Clark County for adoption as an amendment to their Comprehensive Plan in accordance with NRS 543.597(5,6).



# Questions?

