

**MAG 208 Amendment**  
**Central Buckeye WWTP AZPDES**  
**Discharge to Roosevelt Canal**  
**and Buckeye Canal**

**Sponsor: City of Buckeye**



# Project Location

- Entirely within Buckeye's Municipal Planning Area.
- Portions within Buckeye's incorporated area.
- Entirely within Buckeye's Sewer Service Areas.

# Jurisdiction Within 3 Miles

- **Unincorporated Maricopa County.**
- **Letter received from Maricopa County.**

# Purpose of Amendment

- **Additional AZPDES discharge points for Central Buckeye WWTP:**
  - 1. Roosevelt Canal**
  - 2. Buckeye Canal (contingency)**

# No Change in Flow or Treatment

- This amendment will not result in a change in flow (currently 1.1 MGD).
- This amendment will not result in a change in treatment processes.
- Still Class A+ effluent.

# Gila River TMDLs

- **ADEQ recently evaluated Total Maximum Daily Loads for Boron and Selenium on the Middle Gila River.**
- **Boron and Selenium concentrations from the Central Buckeye WWTP and Sundance WRF were considered.**

# Why Buckeye Needs This Project

- **Currently 90% of effluent from Central Buckeye WWTP is discharged without benefit to the City.**
- **Need to convey effluent out of Buckeye Waterlogged Area to allow recharge and reuse.**

# Benefits of Project

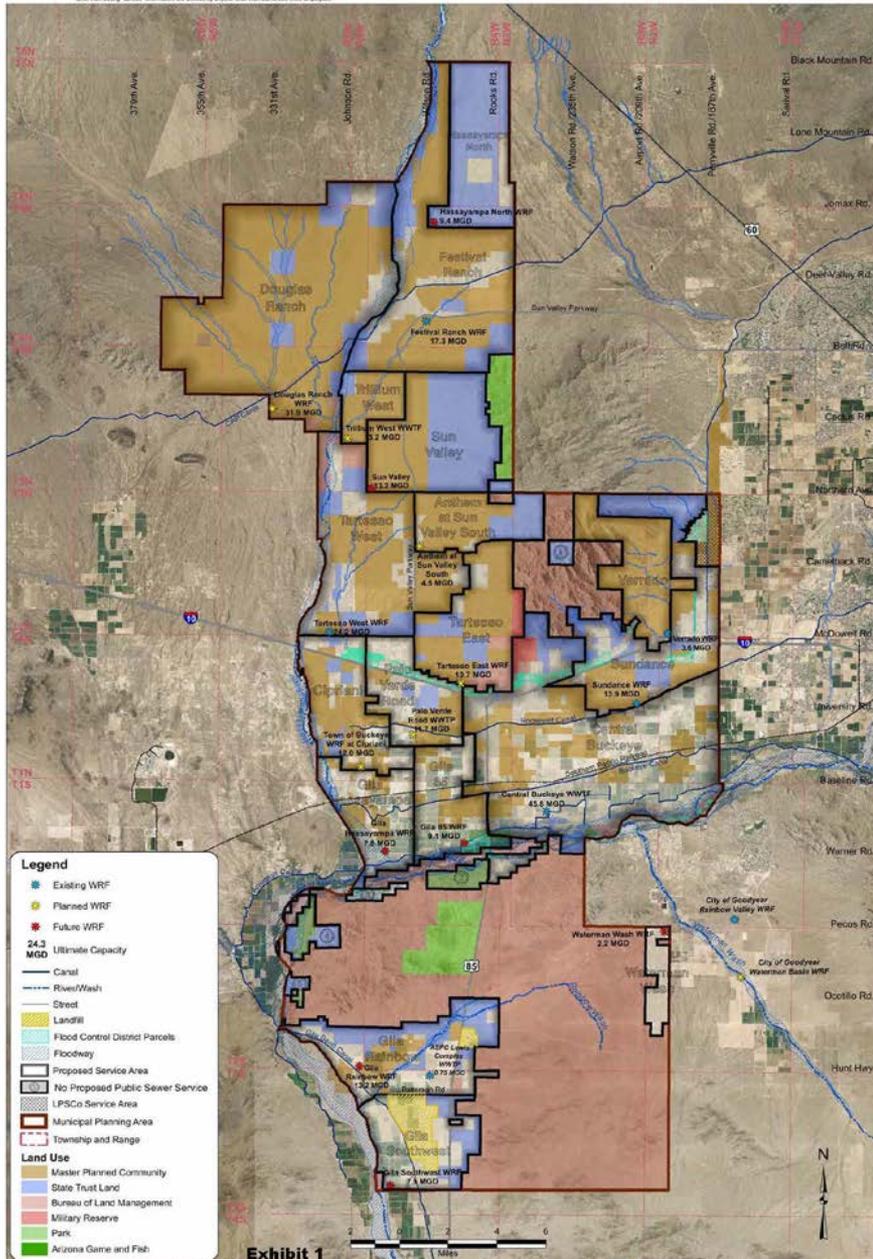
- **Conveys Class A+ Effluent to:**
  - **Roosevelt Canal Groundwater Savings Facility.**
  - **Reuse at Sundance Park and schools.**
  - **Future recharge location.**

# Benefits of Project (continued)

- Should decrease discharge to the Gila River, because more of the effluent will be reused or recharged.

# Project Financing

- **WIFA Loan.**
- **Repayment from Sewer and Reclaimed Water Rates and Fees.**



**Legend**

- Existing WRF
- Planned WRF
- Future WRF
- 24.3 MGD** Ultimate Capacity
- Canal
- River/Wash
- Street
- Landfill
- Flood Control District Parcels
- Floodway
- Proposed Service Area
- No Proposed Public Sewer Service
- LPSCo Service Area
- Municipal Planning Area
- Township and Range

**Land Use**

- Master Planned Community
- State Trust Land
- Bureau of Land Management
- Military Reserve
- Park
- Arizona Game and Fish

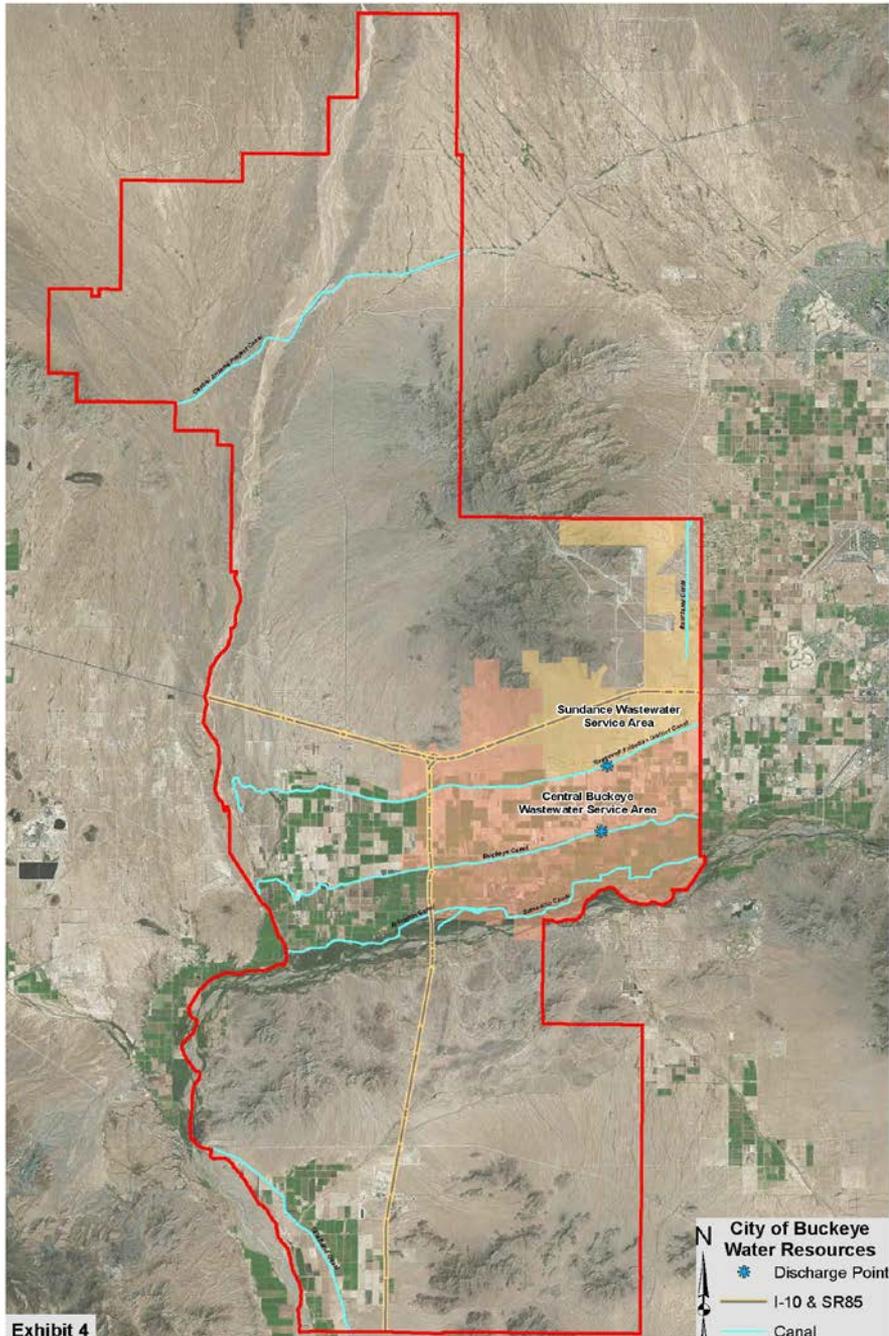
**Exhibit 1**

FIG NO. <b>10</b>	CMX PROJ: 7449	DATE: 07/20/07	SCALE: 1"=100.00'
DESIGNED BY: REV.	DRAWN BY:	CHECKED BY:	APPROVED BY:
SHT. 1 OF 1			

**Buckeye 208 Plan**  
Buckeye, Arizona  
Proposed Water Reclamation  
Facilities and Service Areas

**CMX**  
 ENGINEERS, PLANNERS, LANDSCAPE ARCHITECTS, SURVEYORS, CONSTRUCTION MANAGERS

7740 N. 16TH ST. STE. 100  
 PHOENIX, AZ 85020  
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**Exhibit 4**

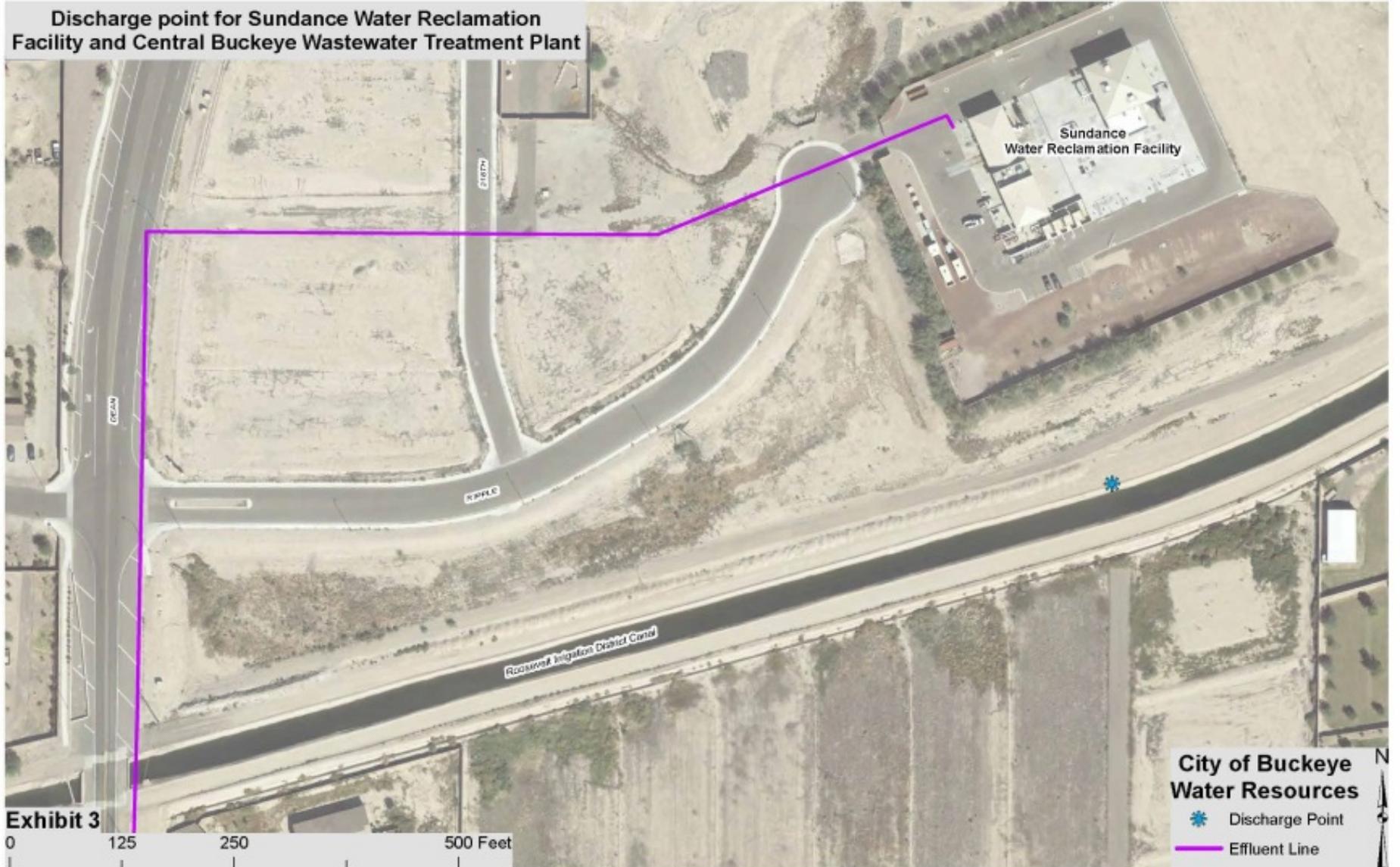
0 2.5 5 10 Miles

Discharge point for Sundance Water Reclamation Facility and Central Buckeye Wastewater Treatment Plant

**City of Buckeye Water Resources**

-  Discharge Point
-  I-10 & SR85
-  Canal
-  Planning Area

**Discharge point for Sundance Water Reclamation Facility and Central Buckeye Wastewater Treatment Plant**



**Exhibit 3**

**City of Buckeye  
Water Resources**

-  Discharge Point
-  Effluent Line

Central Buckeye Wastewater Treatment Plant to  
Sundance Water Reclamation Facility  
EFFLUENT LINE ALIGNMENT



LEGEND

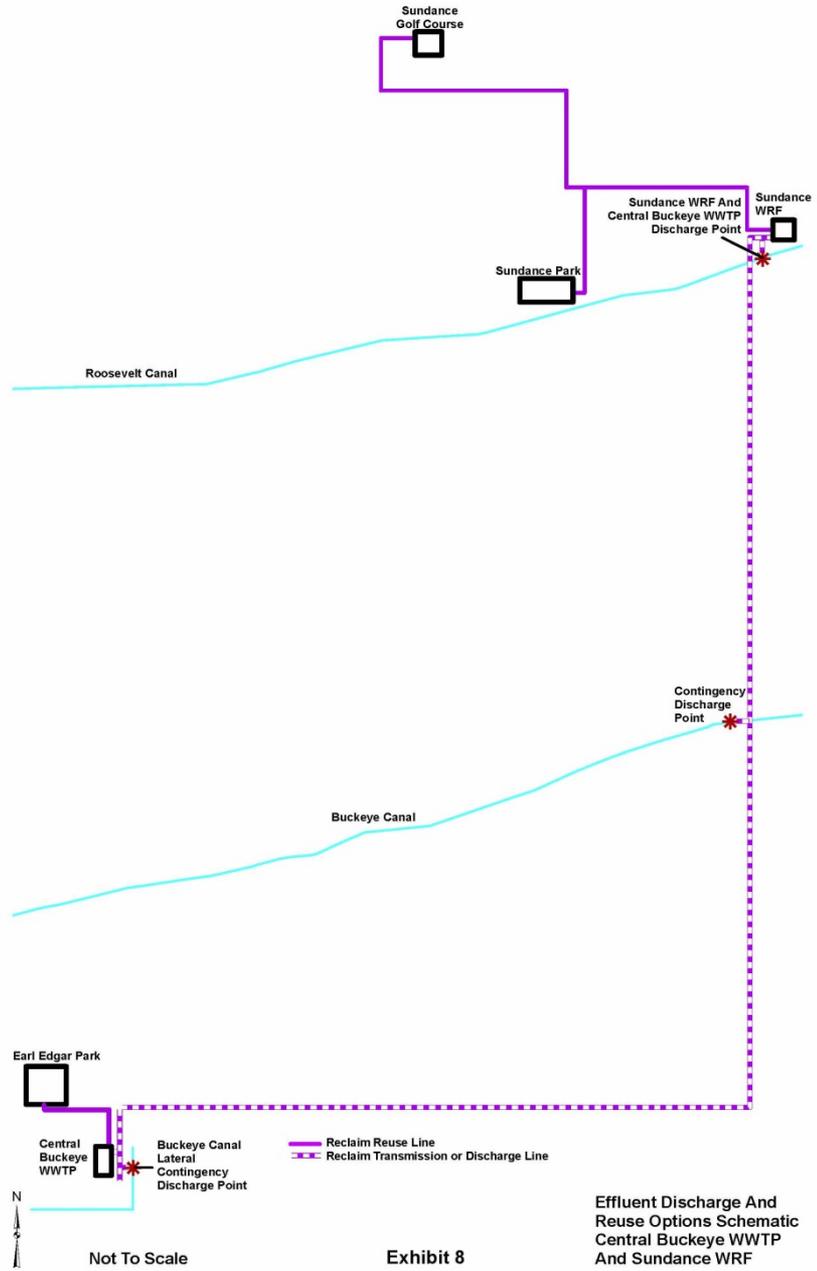
- PROPOSED ALTERNATIVE: 12" PVC-C-900
- - - EXISTING 20" EFFLUENT TRANSMISSION LINE
- - - EXISTING 12" EFFLUENT DISTRIBUTION LINE



PLANNING  
DESIGN  
CONSTRUCTION

EXHIBIT 7

P:\PROJECTS\131877-Buckeye CAUSD\Water\GIS\Map\131877-DW-46121\mfroute-2013 11 11.dwg    D:\DWG\_P\DWG\_P\131877-01.dwg    3/19/14    8:10:35 AM



Not To Scale

Exhibit 8

Effluent Discharge And Reuse Options Schematic  
 Central Buckeye WWTP  
 And Sundance WRF

# Questions?

