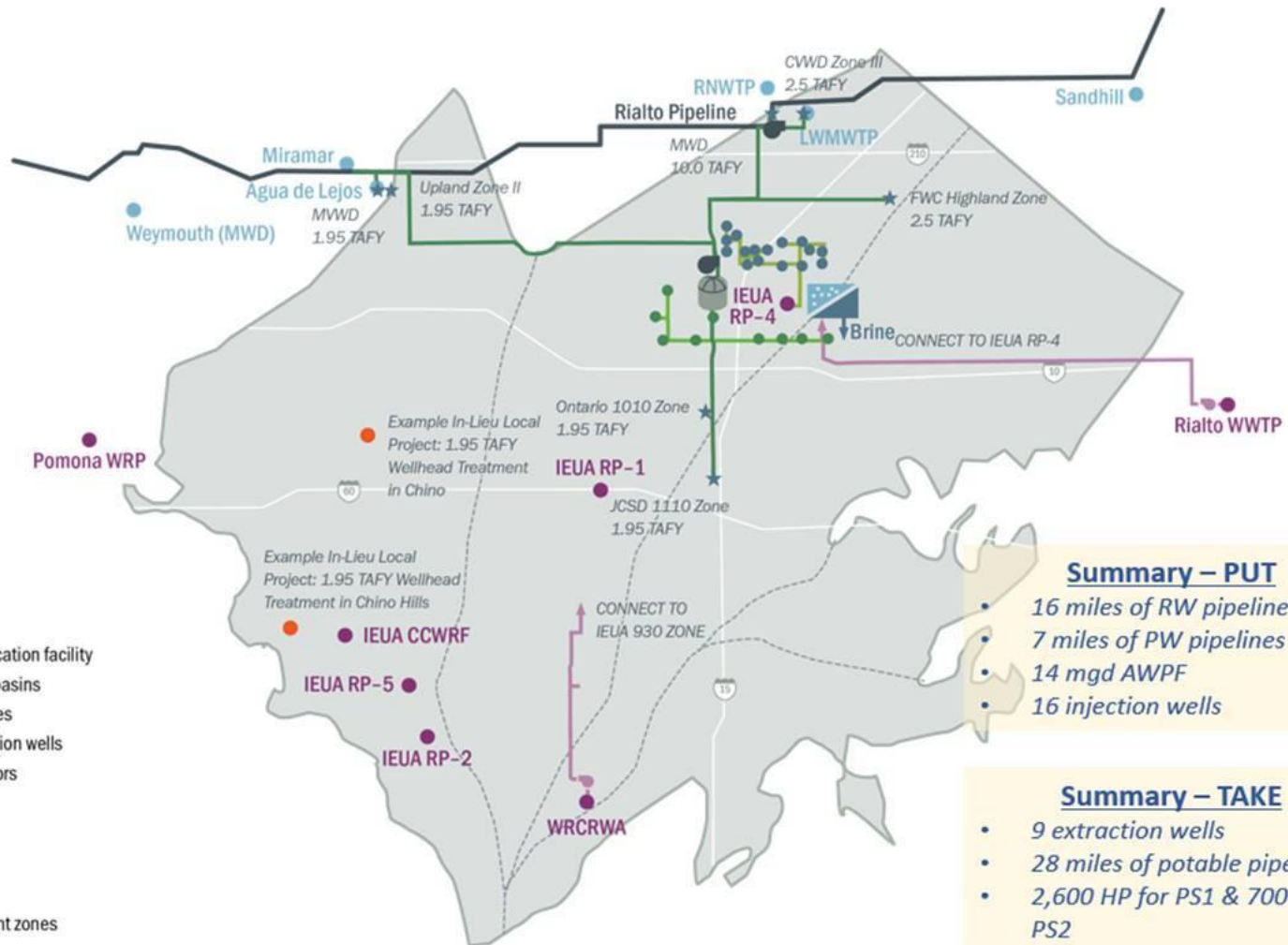
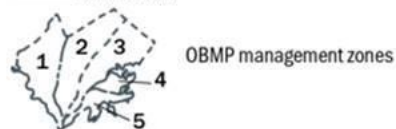


CBP Infrastructure

Infrastructure	
AWPF	✓
Injection	✓
Additional Supplies	✓
Wellhead Treatment	✓
Regional Water Pipeline	✓
State Water Exchange	✓

LEGEND

- Water treatment plant
- Recycled water treatment plant
- Proposed injection wells
- Proposed extraction wells
- Proposed wellhead treatment
- ★ Proposed interconnection
- Proposed recycled water BPS
- Proposed sump station
- Proposed storage tank
- Proposed advanced water purification facility
- Existing recharge/flood control basins
- Proposed recycled water pipelines
- Proposed purified water to injection wells
- Proposed extraction well collectors
- Proposed potable pipeline
- Management zone boundaries
- Chino Basin



Summary – PUT

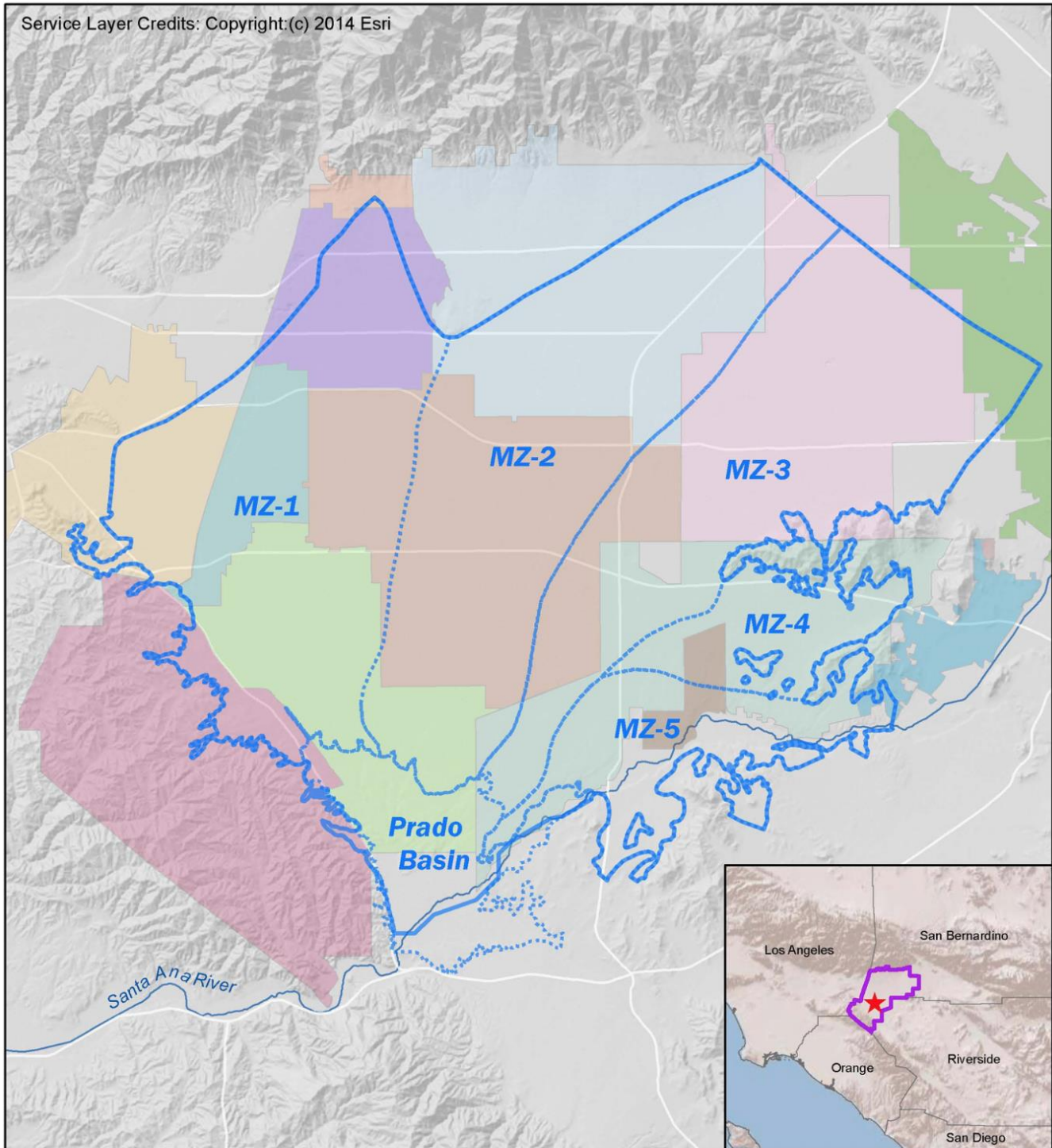
- 16 miles of RW pipelines
- 7 miles of PW pipelines
- 14 mgd AWPF
- 16 injection wells

Summary – TAKE

- 9 extraction wells
- 28 miles of potable pipelines
- 2,600 HP for PS1 & 700 HP for PS2
- 2.5 MG storage tank
- 7 interconnections

FIGURE 1

Service Layer Credits: Copyright:(c) 2014 Esri



Prepared by:



Author: AWM

File Name: CBP_ChinoBasin_MZs



Date: 7/23/2020



1 in : 3.2 miles

0 4,500 9,000 Feet

0 1.5 3 Miles

References/Notes:

1. Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
2. Prado Basin boundary extends outside of the Chino Groundwater Basin boundary.

Project:



Preliminary Design Report

Prepared for:



A MUNICIPAL WATER DISTRICT

Explanation:

CVWD	MVWD	SARWC
Chino	Ontario	SAWCo
Chino Hills	Pomona	SBVMWD
FWC	RCSD	Upland
JCSD	Rialto	

Chino Basin Management Zones

FIGURE 2

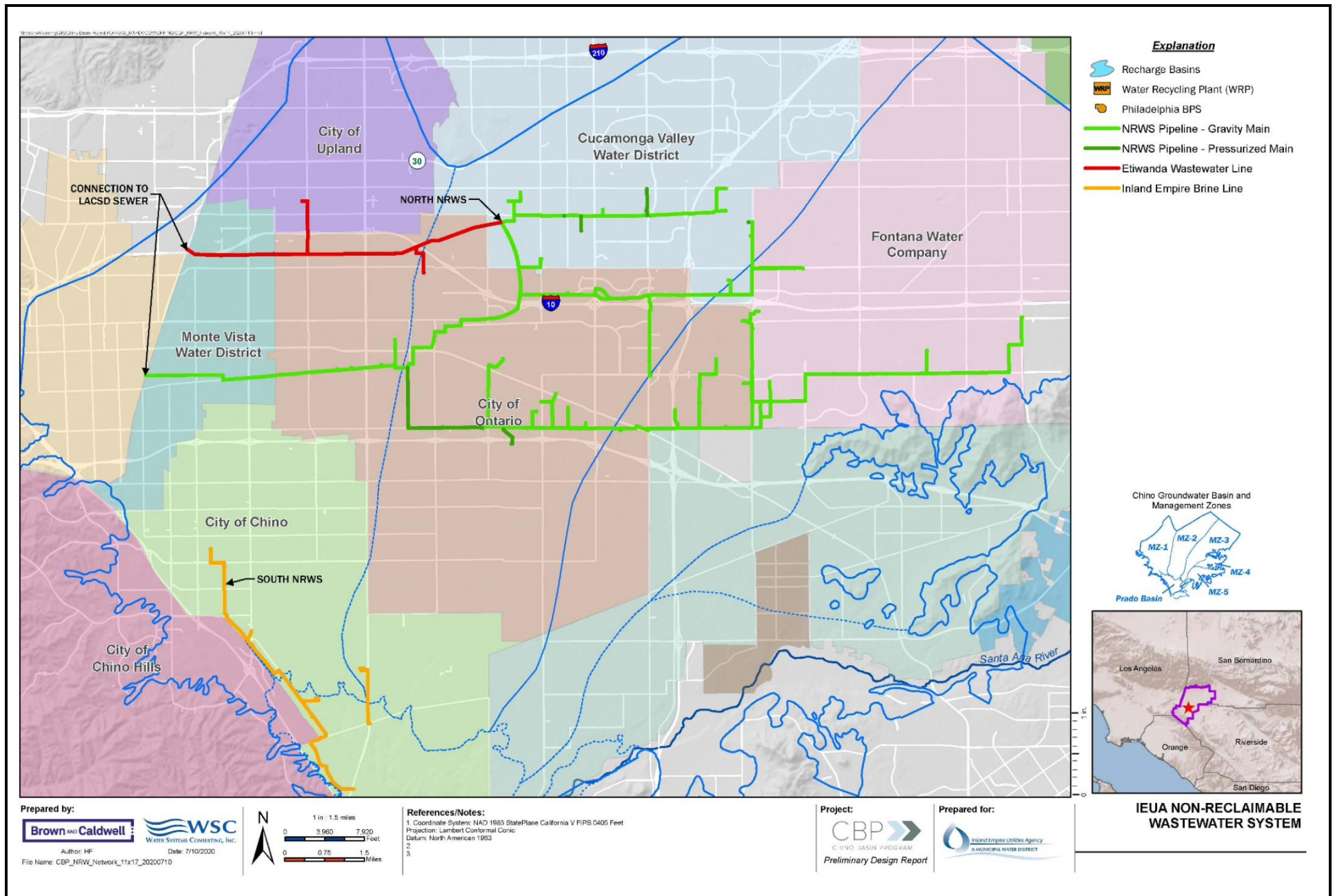


FIGURE 3

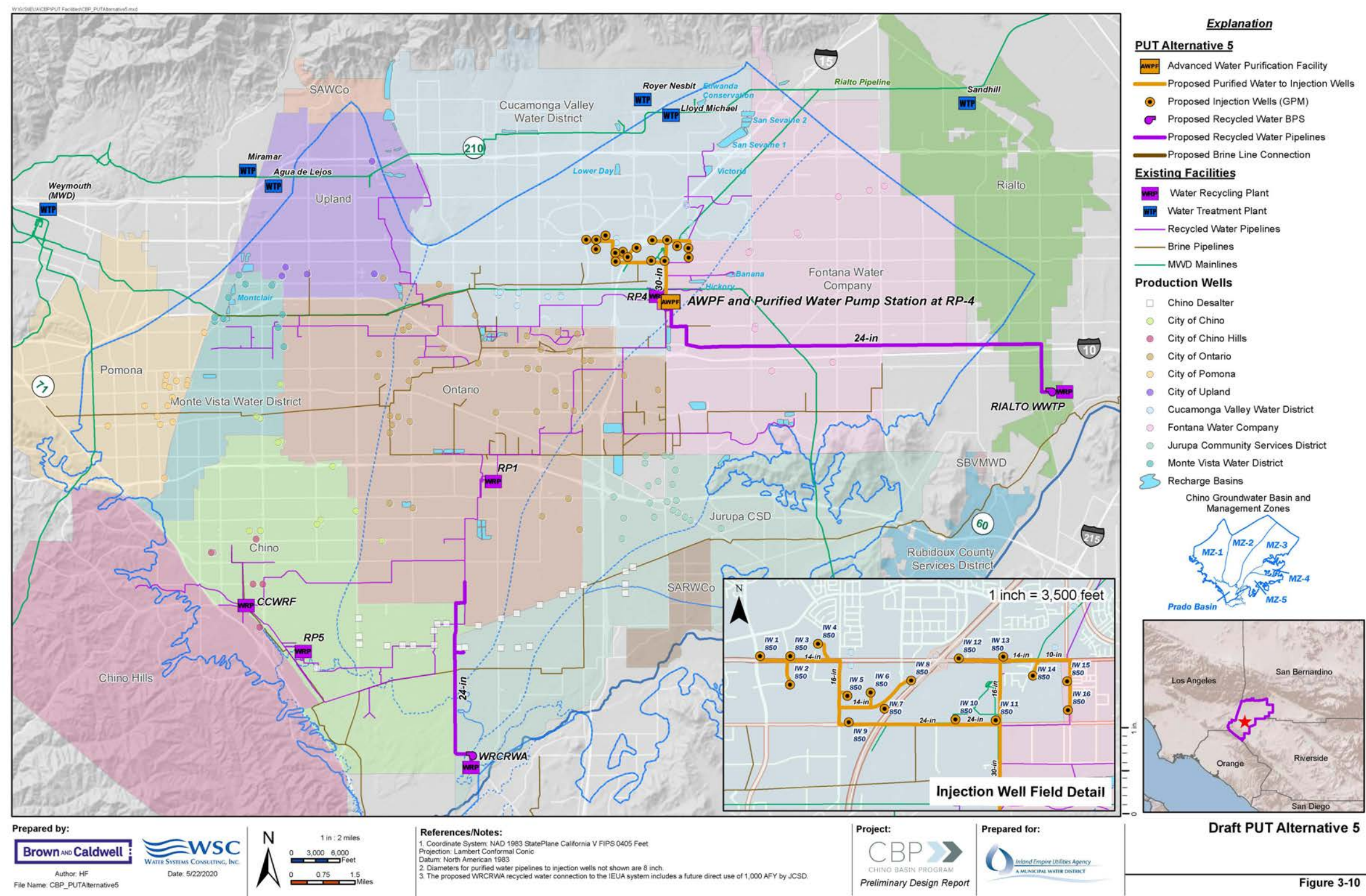


Figure 3-10. PUT Alternative 5 Map

FIGURE 4

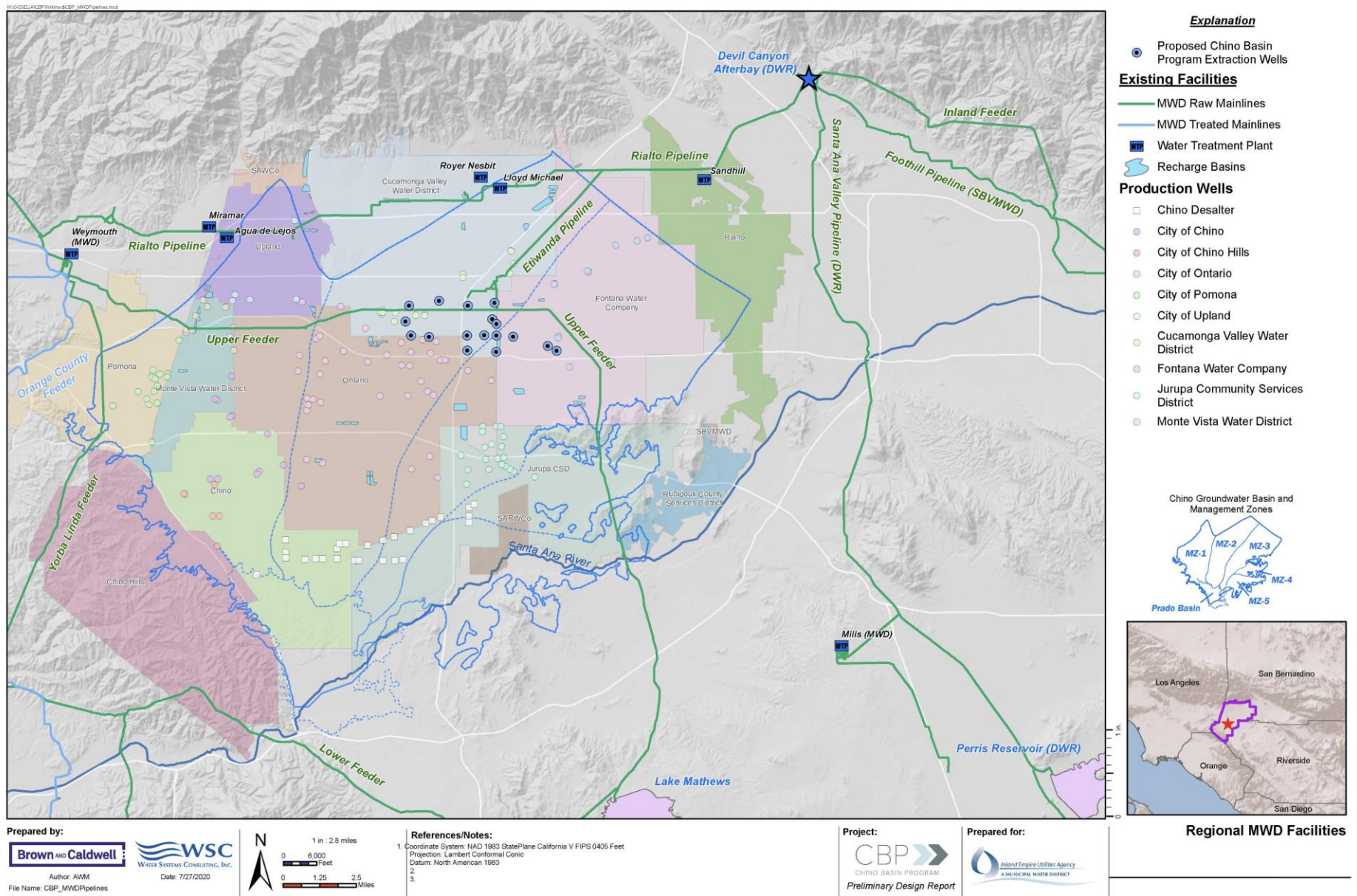


FIGURE 5

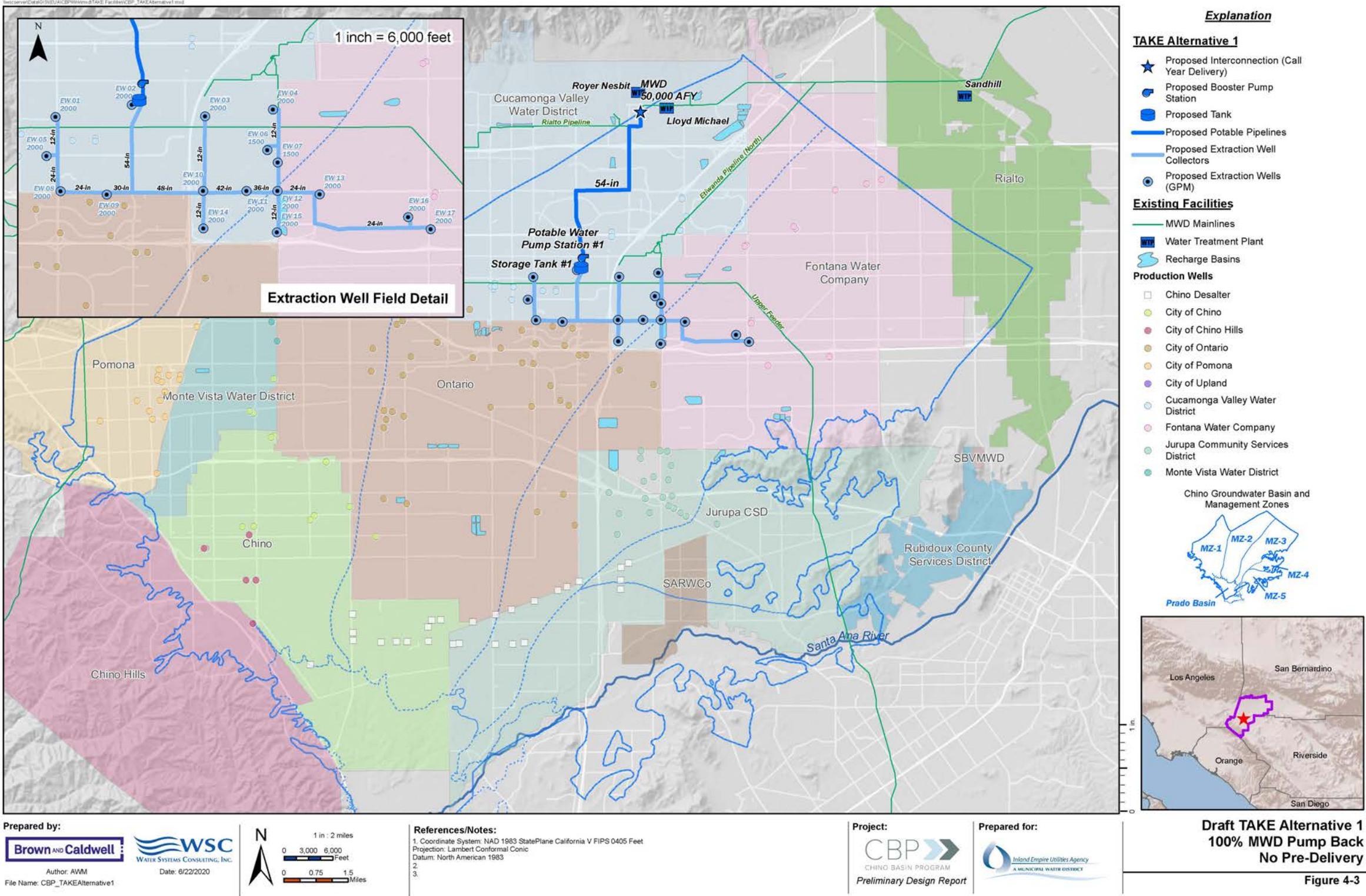


Figure 4-3. TAKE Alternative 1 100% MWD Pump Back, Standard Delivery

FIGURE 6

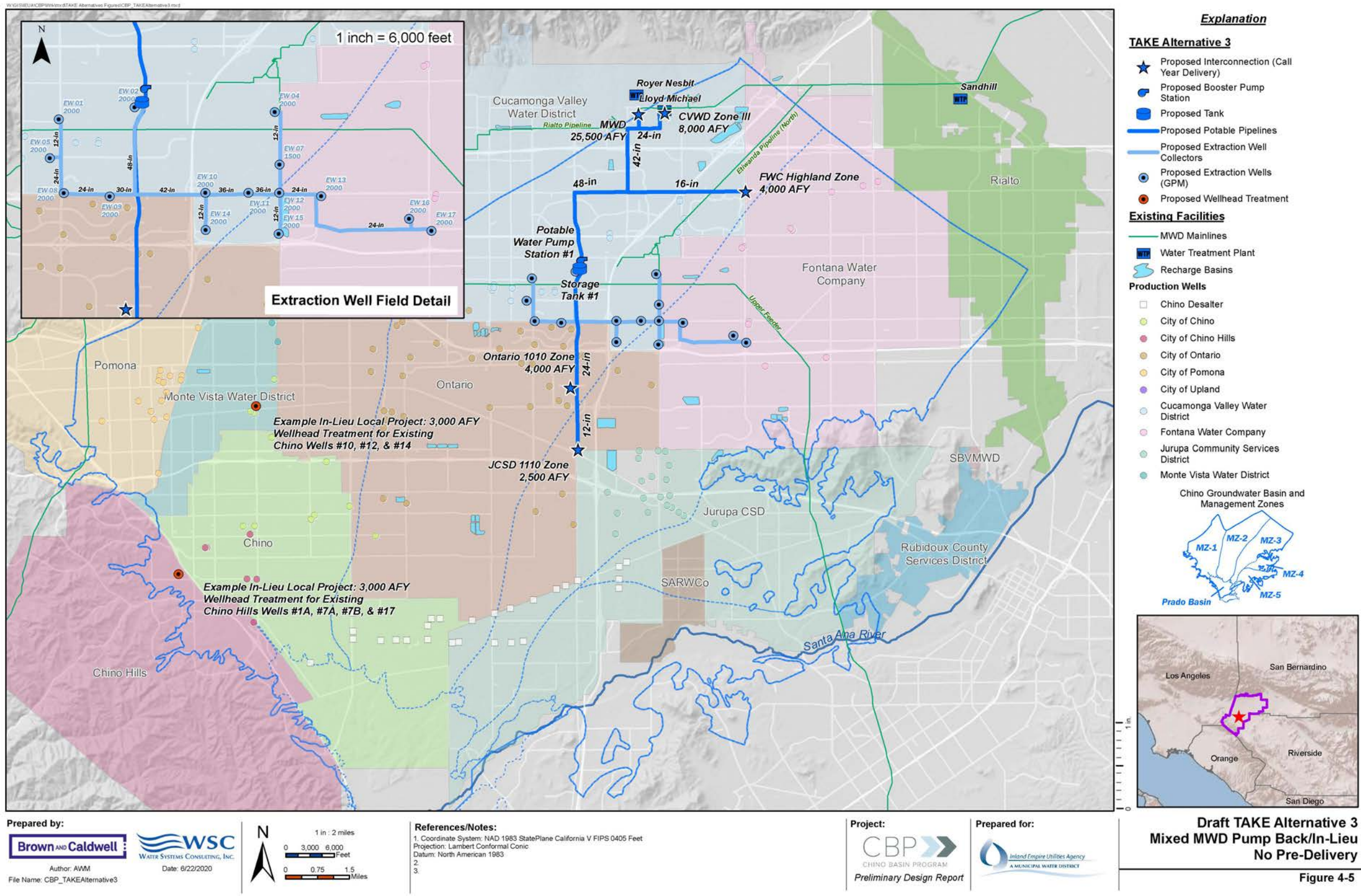
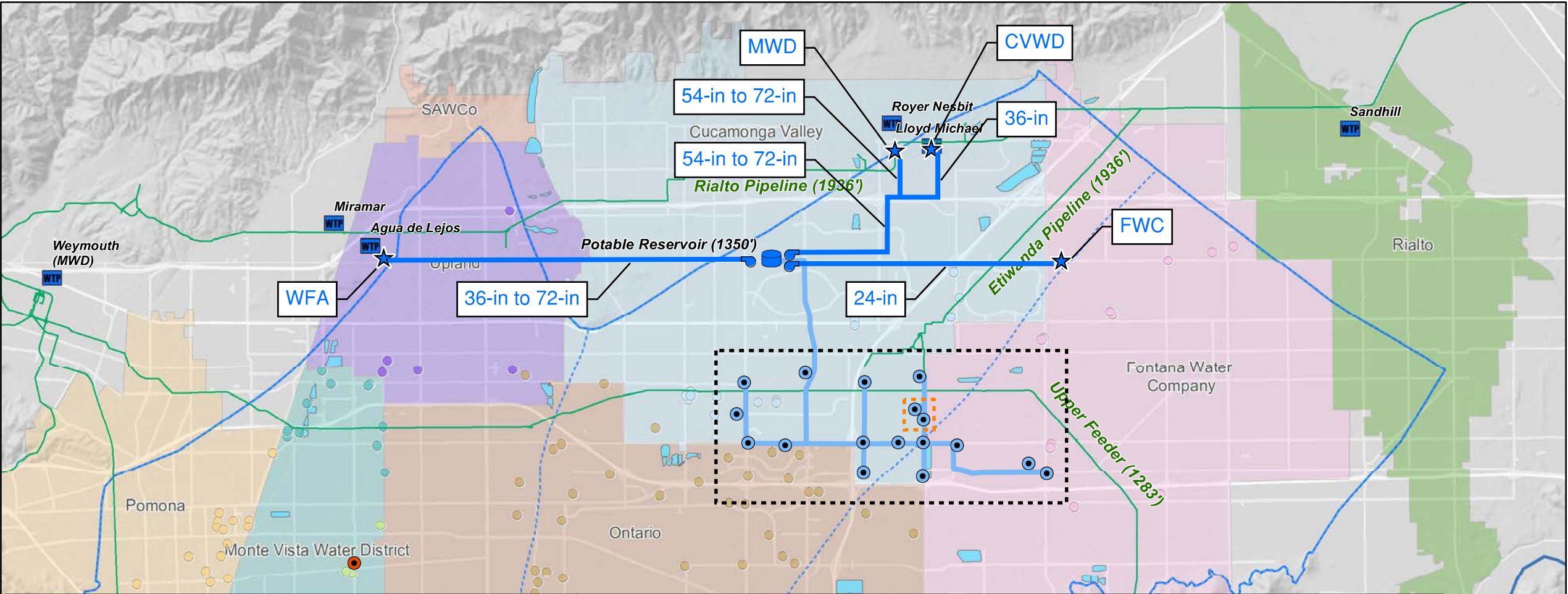


FIGURE 7



Explanation

TAKE MWD Integration

- ★ WSIP Interconnection (WSIP Call Year Delivery)
- Proposed Tank
- Proposed Extraction Well Collectors
- Proposed Extraction Wells
- Proposed Booster Station

Existing Production Wells

- Chino Desalter
- City of Chino
- City of Chino Hills
- City of Ontario
- City of Pomona
- City of Upland
- Cucamonga Valley Water District
- Fontana Water Company
- Jurupa Community Services District
- Monte Vista Water District

Delivery Points

- 1. WFA: Agua de Lejos Clearwell - HGL 1,632 ft
- 2. FWC: Highland Zone @ Baseline & Cherry - HGL 1,504 ft
- 3. CVWD: Lloyd Michael Clearwell - HGL 1,658 ft
- 4. MWD: Rialto Pipeline @ CB-7 (upsized) - HGL 1,936 ft

Pipeline Alignments

- 1. 36-in to 72-in WFA Pipeline: Baseline, Benson (7.0 miles)
- 2. 24-in FWC Pipeline: Baseline: (4.5 miles)
- 3. 54-in to 72-in & 36-in CVWD/MWD Pipeline: Baseline, Day Creek, Banyan, Etiwanda (4.5 miles)
- 4. 54-in to 72-in MWD Pipeline: Bluegrass (0.3 miles)

Pump Stations

- 1. WFA Booster: 1,700 HP
- 2. FWC Booster: 300 HP
- 3. CVWD/MWD Booster: 4,800 HP

Extraction Wells

- 1. 15x 2,000 gpm
- 2. 2x 1,500 gpm
- 53,000 AFY total production capacity
- Average Well Pump HP: 600 HP

Delivery Schedule

WSIP Call Year

WFA:	10,000 AFY
FWC:	4,000 AFY
CVWD:	8,000 AFY
MWD:	28,000 AFY

Note 1: During WSIP Non-Call Years, MWD could use the facilities shown (smaller diameters) to extract up to 50,000 AFY from the Chino Basin and deliver it to the Rialto Pipeline, provided MWD had banked water in the basin previously.

Note 2: During WSIP Non-Call Years, MWD could use the facilities shown (larger diameters) to extract up to 100,000 AFY from the Chino Basin and deliver it to the Rialto Pipeline or Weymouth, provided MWD had banked the water in the basin previously.

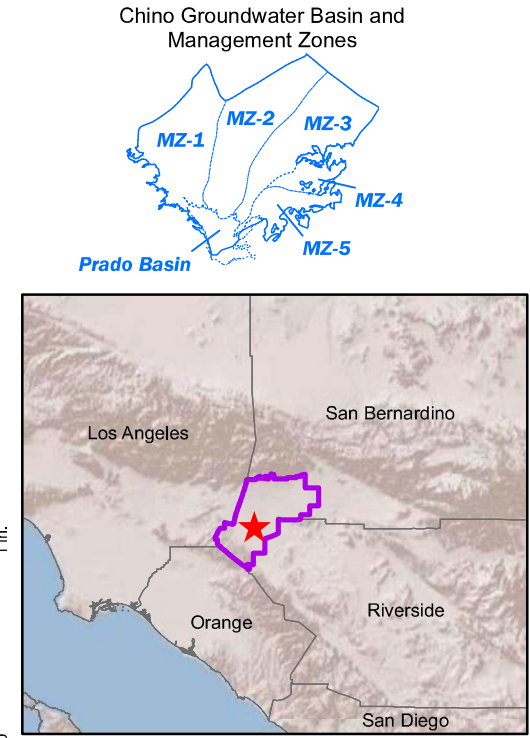
Further, for a 100,000 AFY banking program, MWD would need to install an additional 50,000 AFY of extraction well capacity, upsize the extraction well collector network, provide additional surface storage, upsize the CVWD/MWD Booster, upsize the WFA Booster (if delivering to Weymouth), and extend the WFA Pipeline to Weymouth (if delivering to Weymouth). These additional or upsized facilities are not included in this Environmental Impact Report.

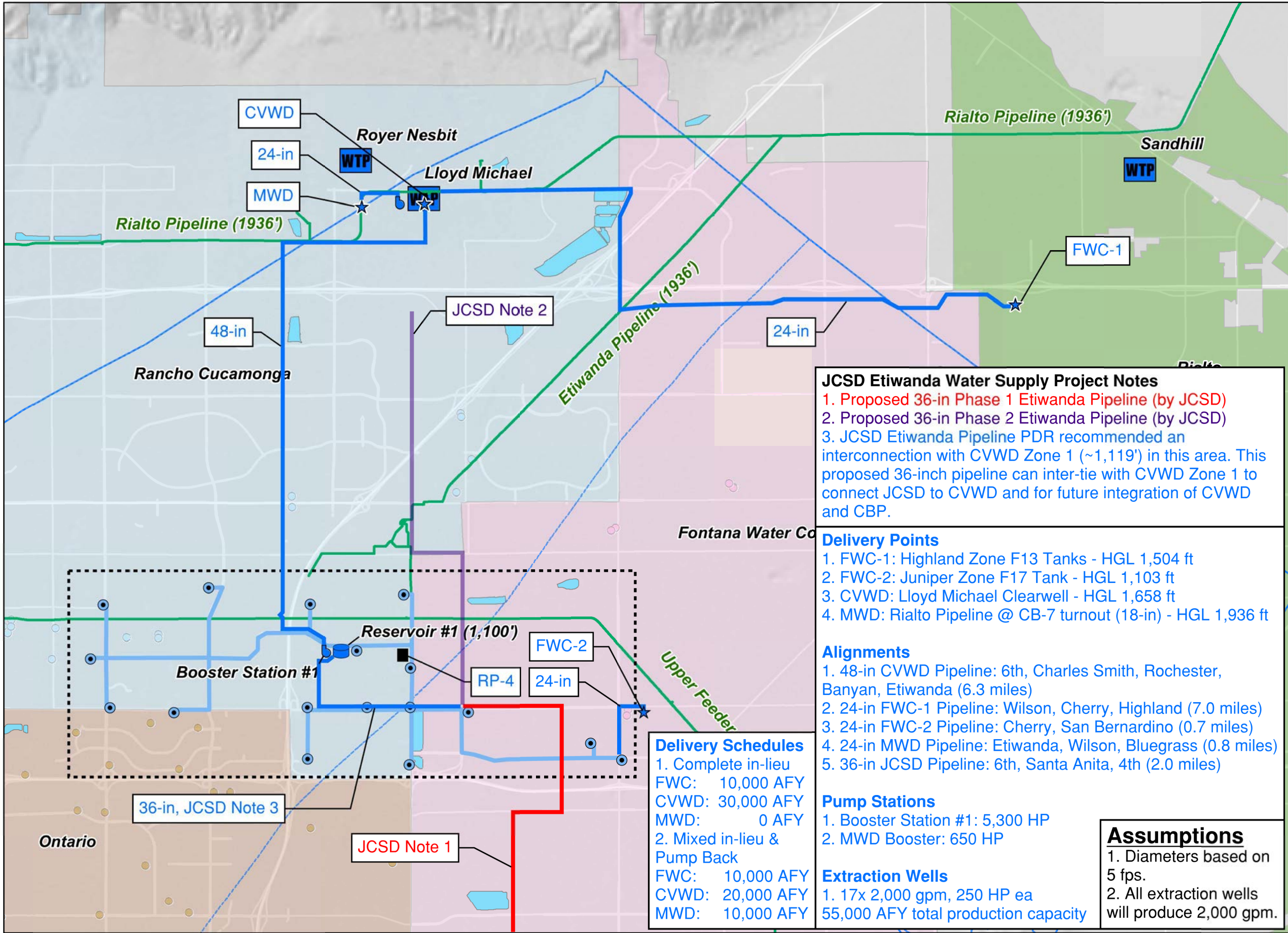
Assumptions

- 1. Diameters based on 5 fps.
- 2. Extraction wells will produce 2,000 gpm, except wells outlined in orange will produce 1,500 gpm.

Pipe Capacities by Diameter

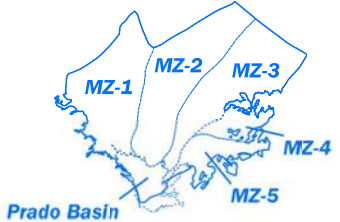
12-in.....	3,000 AFY
16-in.....	5,000 AFY
24-in.....	11,500 AFY
30-in.....	18,000 AFY
36-in.....	25,500 AFY
42-in.....	35,000 AFY
48-in.....	45,500 AFY
54-in.....	57,500 AFY
60-in.....	71,000 AFY
66-in.....	86,000 AFY
72-in.....	102,000 AFY





- Explanation**
- Proposed Facilities**
- Booster Pump Station
 - Delivery Point
 - Reservoir
 - Distribution Pipeline
 - Extraction Well Pipe
 - Extraction Well
- Existing Facilities**
- MWD Pipeline (Static HGL)
 - Water Treatment Plant
- Production Wells**
- Chino Desalter
 - City of Chino
 - City of Chino Hills
 - City of Ontario
 - City of Pomona
 - City of Upland
 - Cucamonga Valley Water District
 - Fontana Water Company
 - Jurupa Community Services District
 - Monte Vista Water District

Chino Groundwater Basin and Management Zones



Prepared by:

Brown and Caldwell

WSC
WATER SYSTEMS CONSULTING, INC.

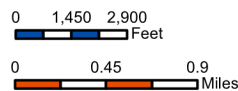
Author: AWM

Date: 7/23/2021

File Name: WSIP TAKE 40TAFY-10PB



1 in. = 0.9 miles



References/Notes:

1. Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
- 2.
- 3.

Project:

CBP
CHINO BASIN PROGRAM
Preliminary Design Report

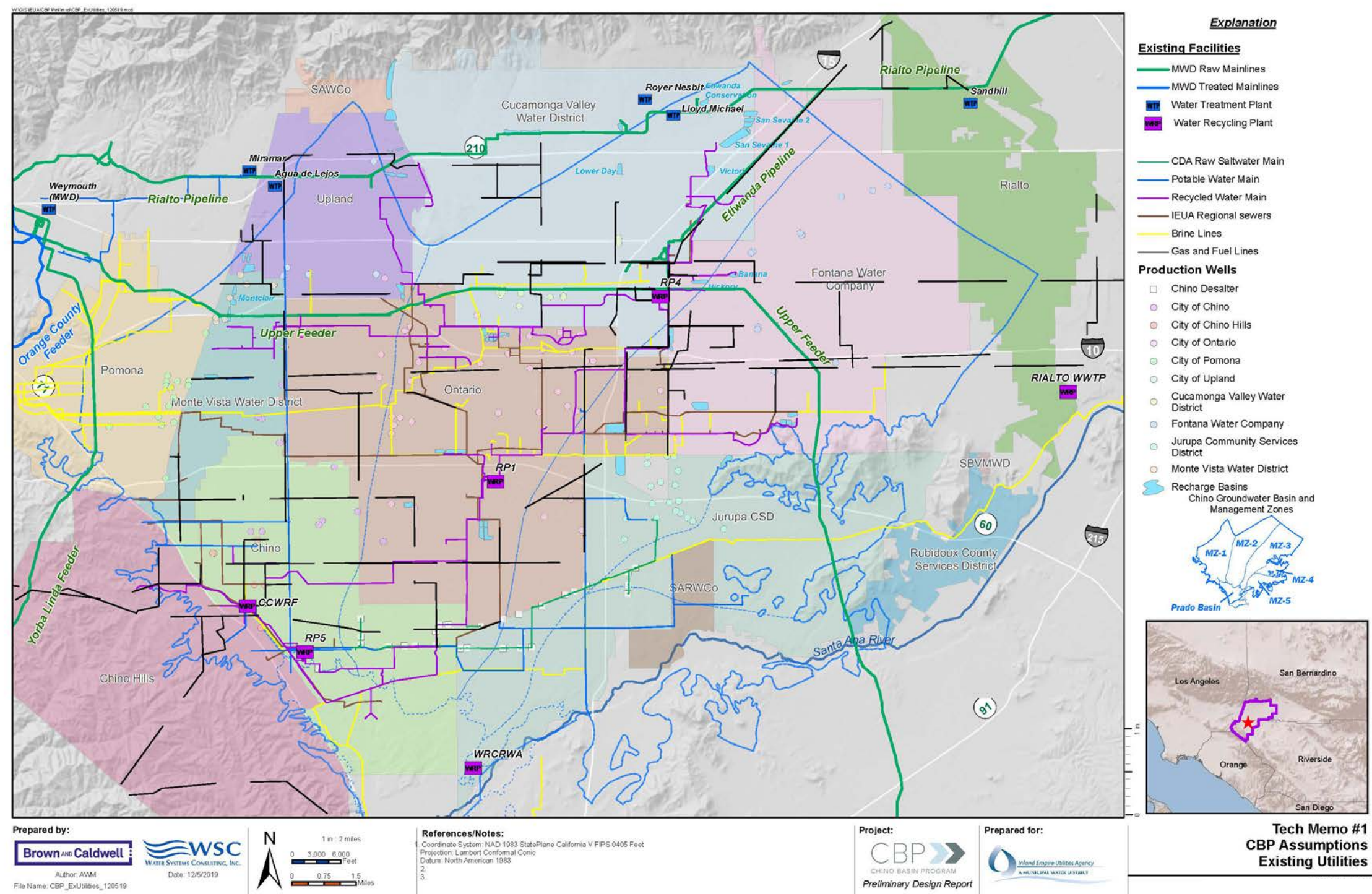
Prepared for:

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

TAKE Alternative 8
Pump Back/In-Lieu, JCSD
Etiwanda Water Supply Project

FIGURE 9

Figure #-#



Existing Utilities Map

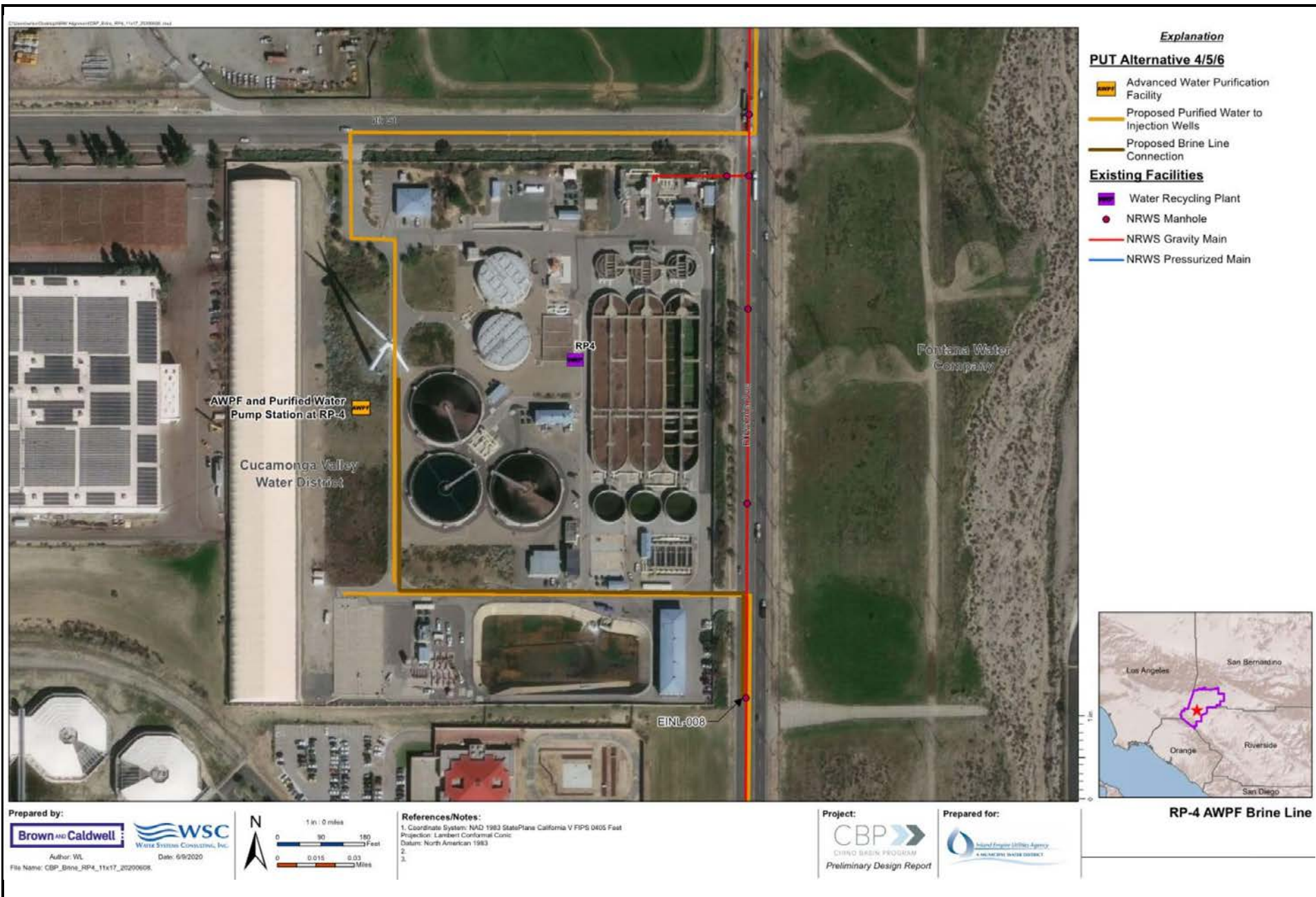


FIGURE 11



FIGURE 12