



Town Hall Meeting

Presentation by

Steve Nugent, General Manager

March 16, 2005

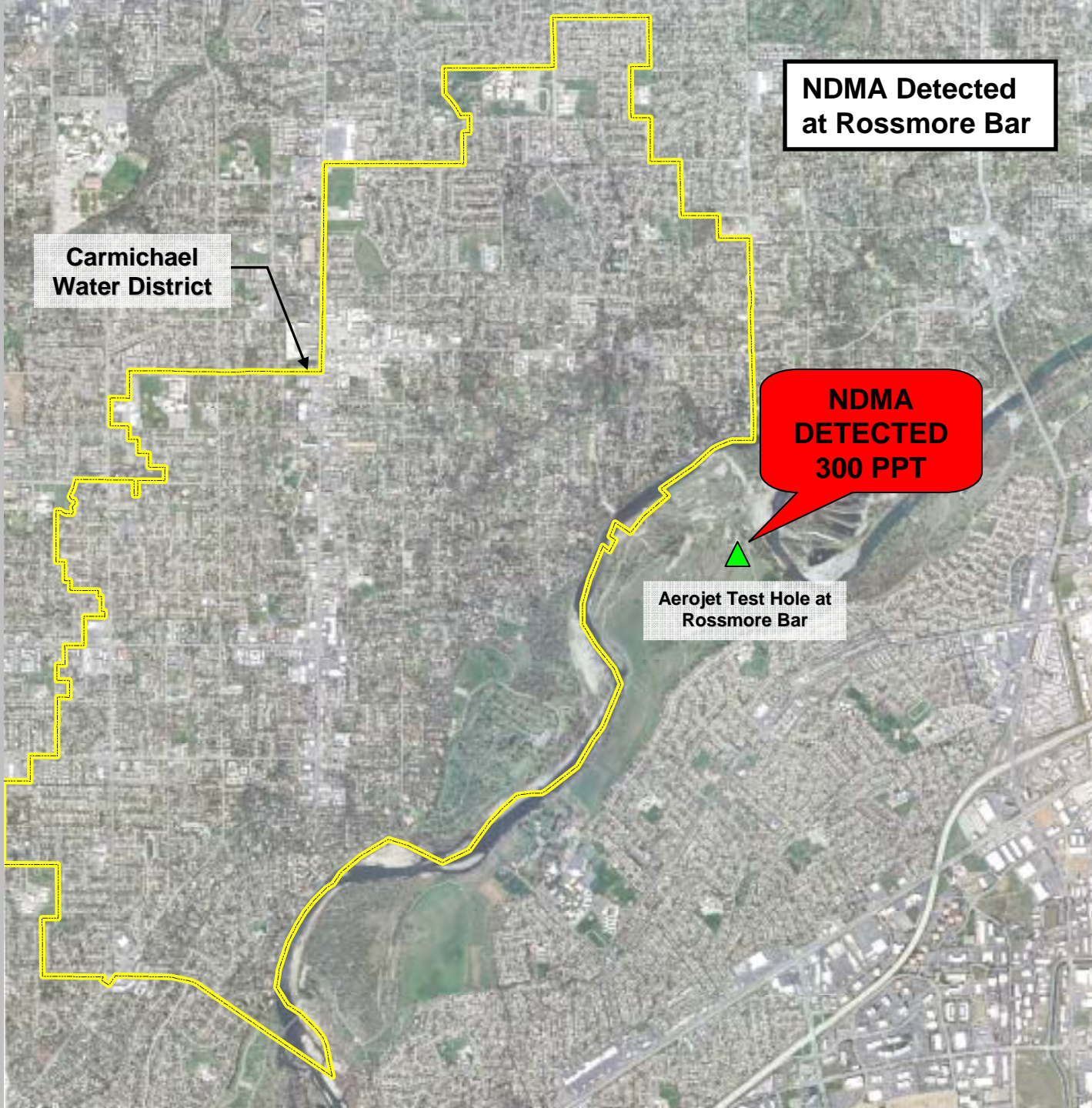


**Carmichael
Water District**

American River

Highway 50

Aerojet Corporation Site



**NDMA Detected
at Rossmore Bar**

**Carmichael
Water District**

**NDMA
DETECTED
300 PPT**

**Aerojet Test Hole at
Rossmore Bar**

**Two New
Monitoring Wells**

**Carmichael
Water District**



Grant Ave.



Palm Dr.



Rossmore Bar



**NDMA Detected
in the District**

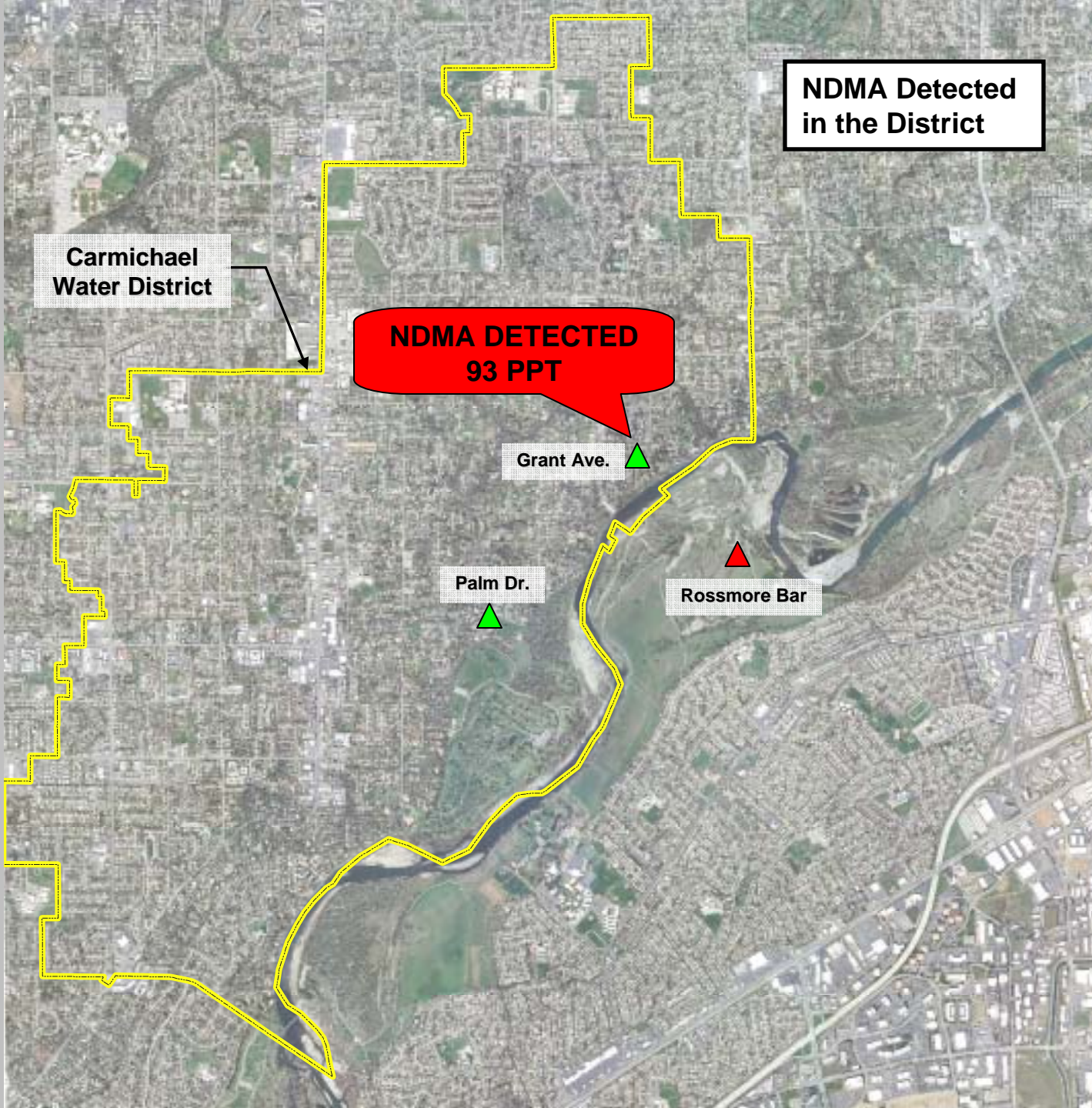
**Carmichael
Water District**

**NDMA DETECTED
93 PPT**

Grant Ave. ▲

Palm Dr. ▲

Rossmore Bar ▲



**NDMA Plume
Map**

**Carmichael
Water District**



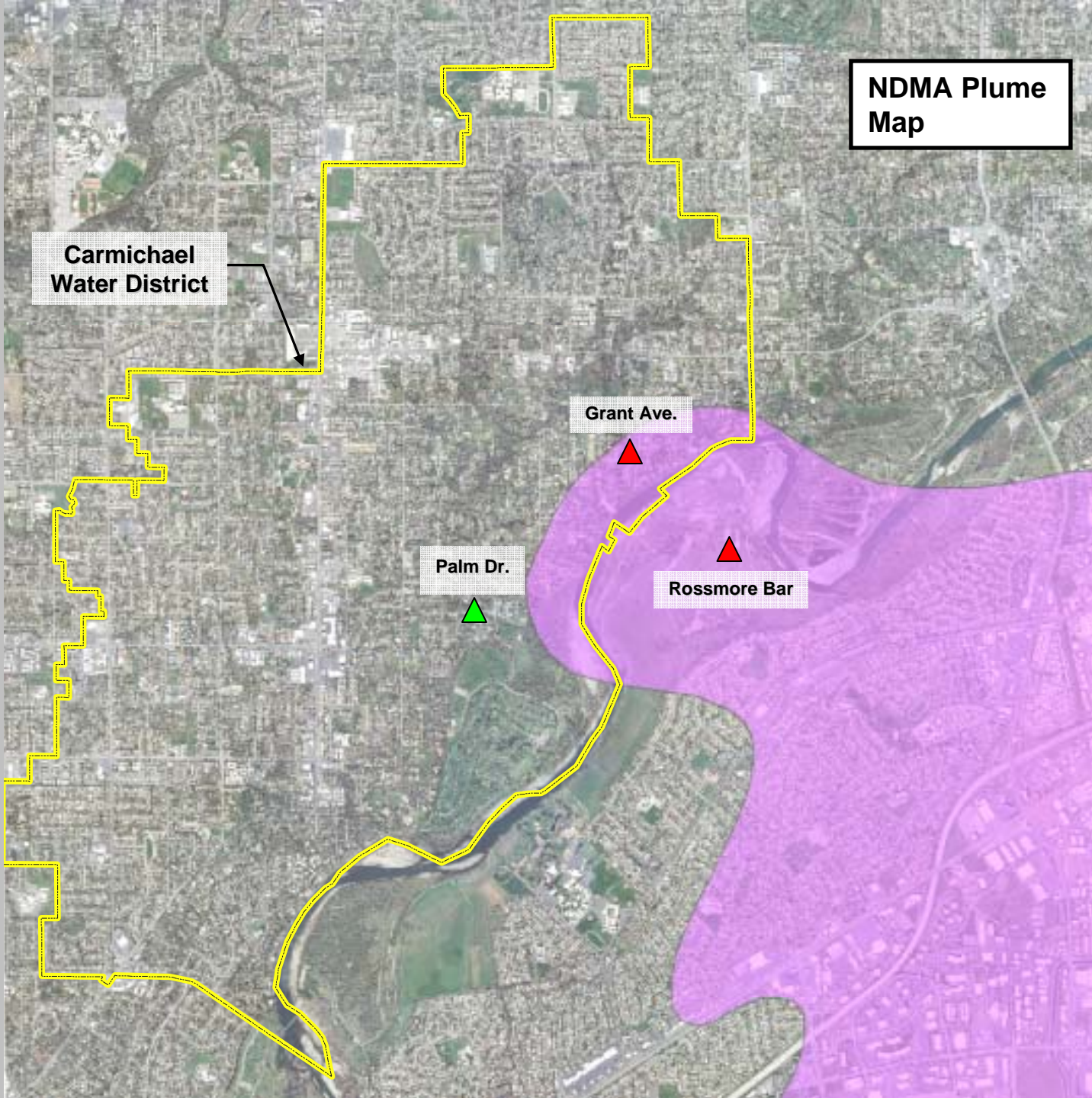
Grant Ave.



Palm Dr.



Rossmore Bar



**Three New
Monitoring Wells**

**Carmichael
Water District**



Marshall Ave.



Amy Ave.



Grant Ave.



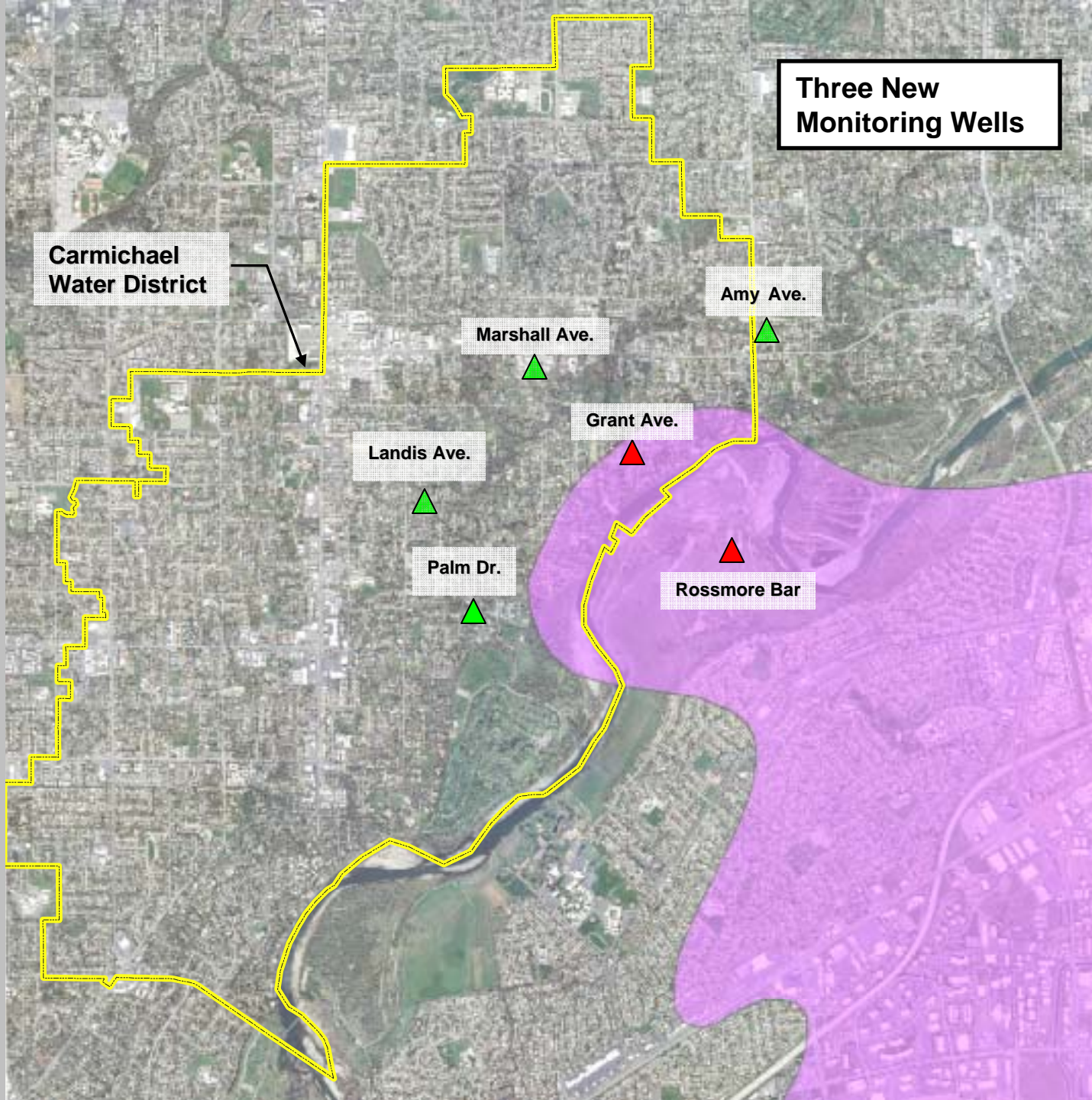
Landis Ave.



Palm Dr.



Rossmore Bar



**One New
Monitoring Well**

**Carmichael
Water District**



Marshall Ave.



Amy Ave.



Grant Ave.



Landis Ave.



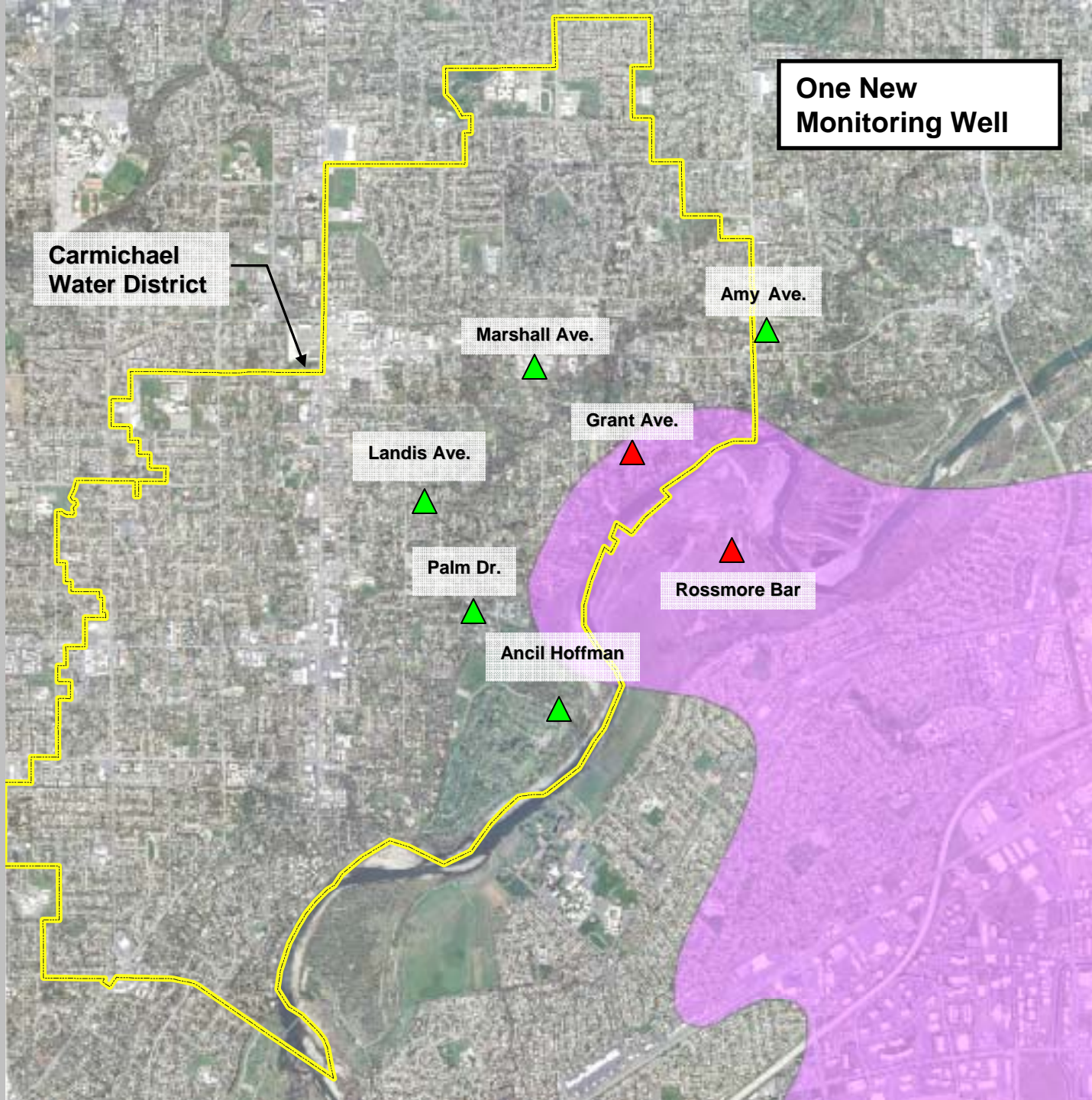
Palm Dr.



Rossmore Bar



Ancil Hoffman



NDMA Detected at Ancil Hoffman Well

Carmichael Water District

Amy Ave.

Marshall Ave.

Grant Ave.

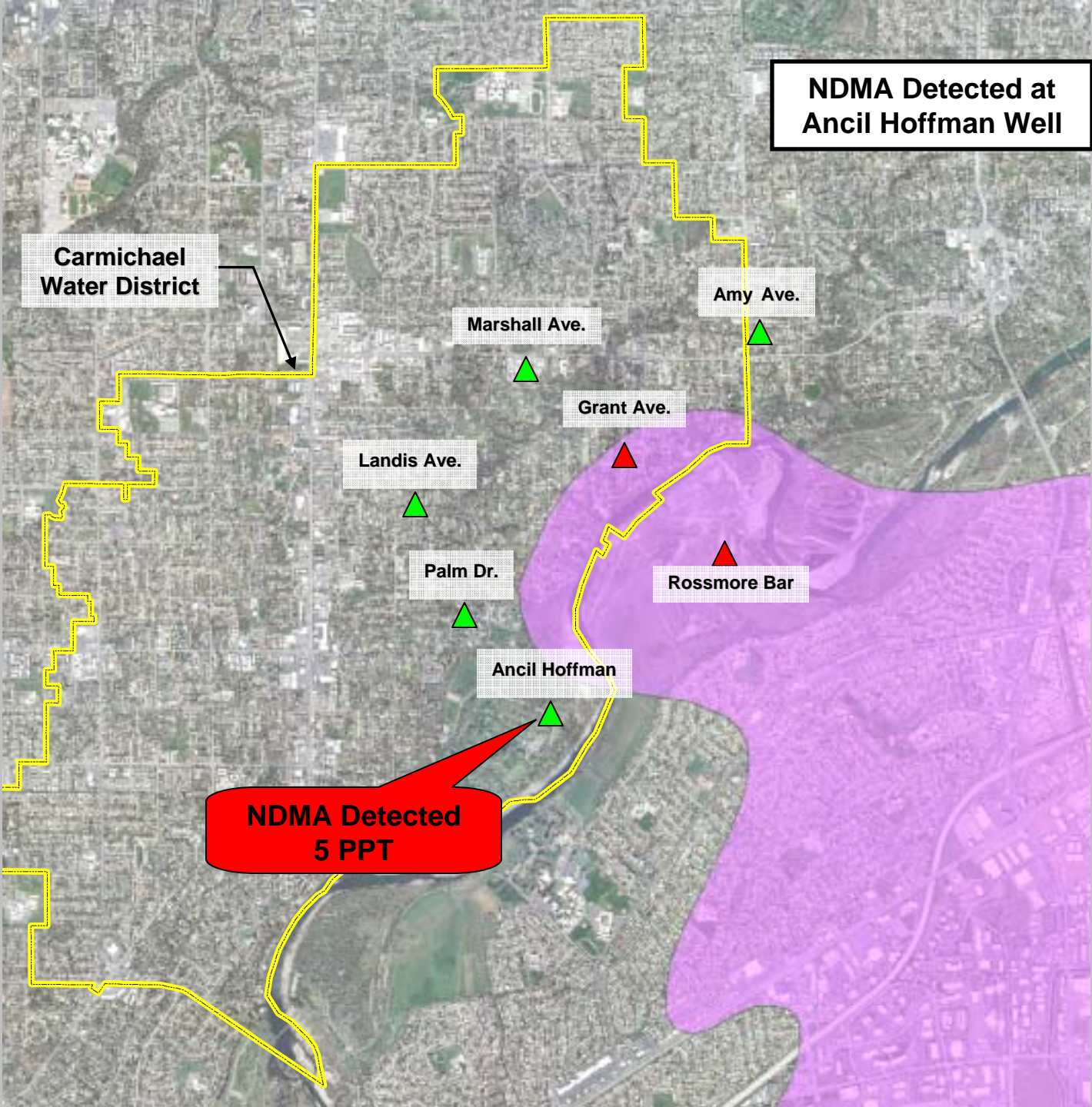
Landis Ave.

Palm Dr.

Rossmore Bar

Ancil Hoffman

**NDMA Detected
5 PPT**



**NDMA Detected at
Ancil Hoffman Well –
Plume 2005 Update**

**Carmichael
Water District**



Marshall Ave.



Amy Ave.



Grant Ave.



Landis Ave.



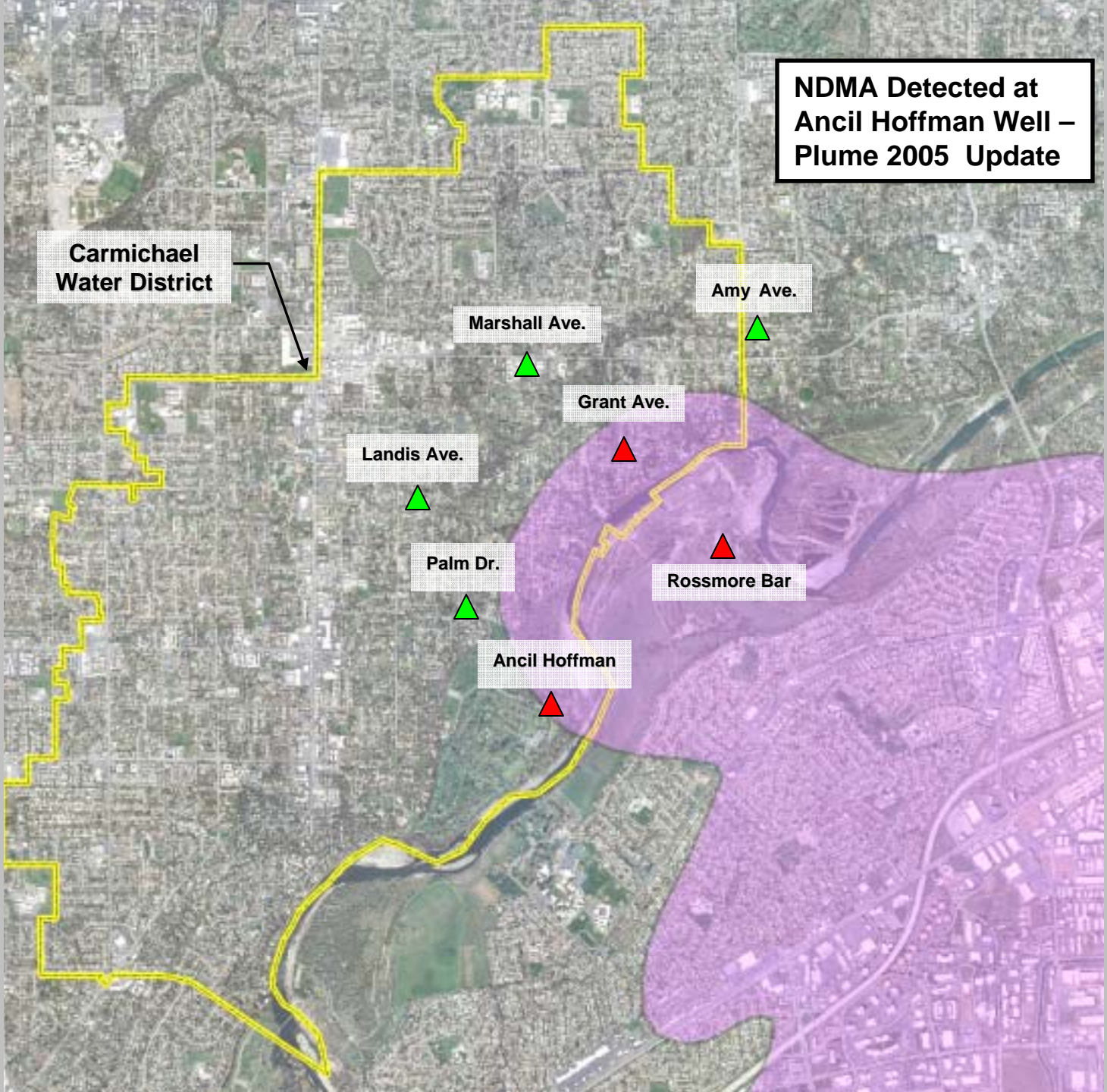
Palm Dr.



Rossmore Bar



Ancil Hoffman

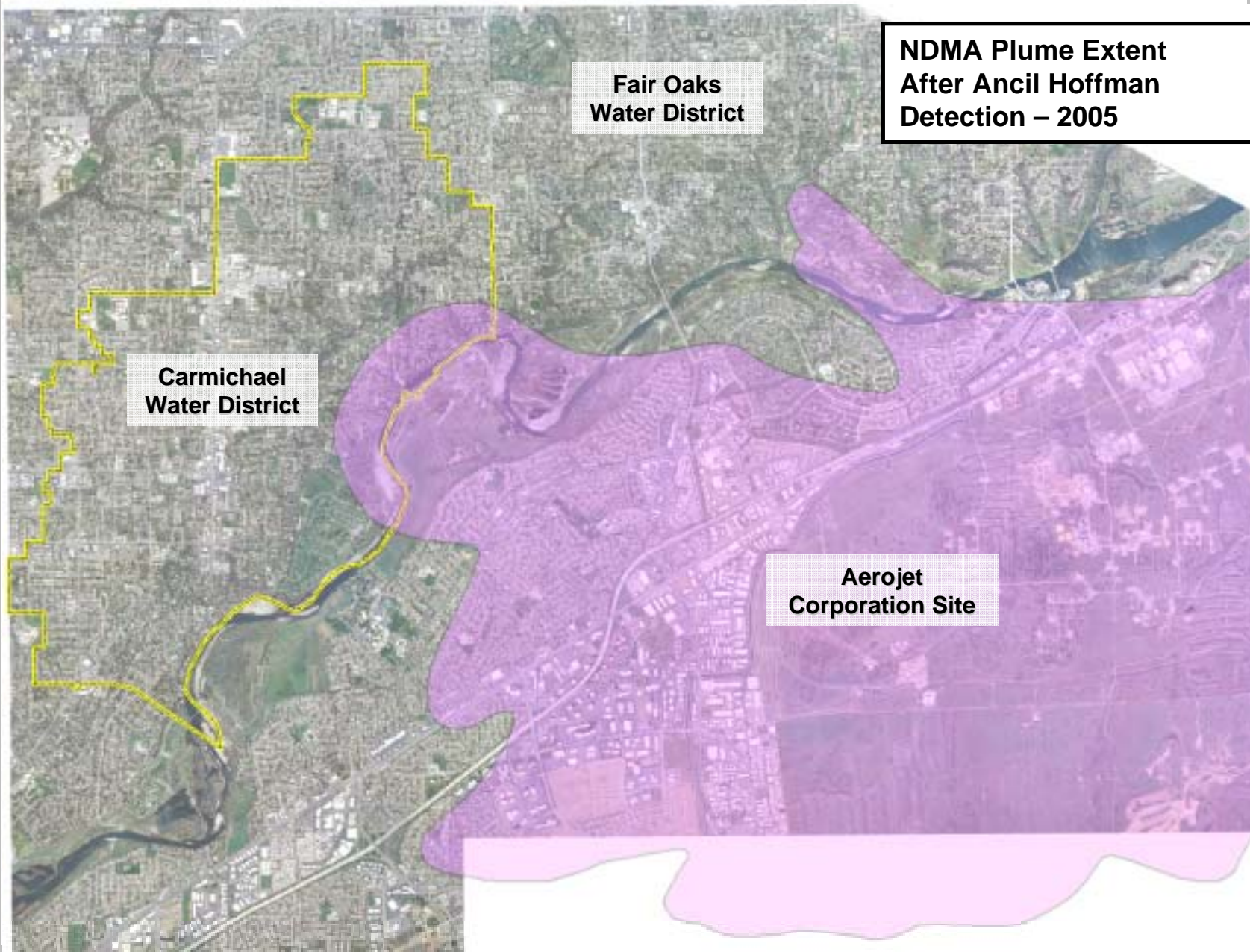


**NDMA Plume Extent
After Ancil Hoffman
Detection – 2005**

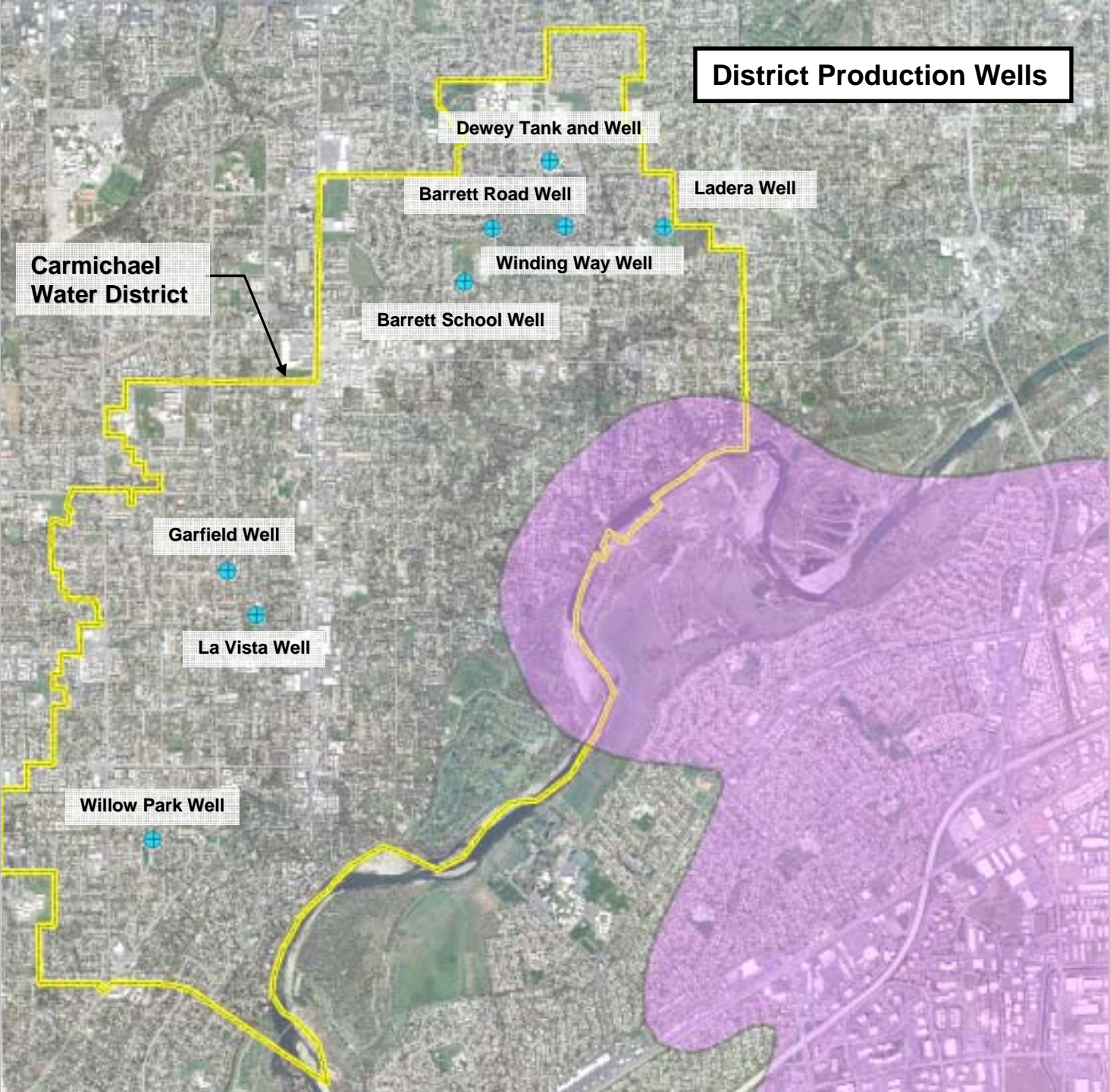
**Fair Oaks
Water District**

**Carmichael
Water District**

**Aerojet
Corporation Site**



District Production Wells



District Production Wells -- EPA 2,000 Ft. Buffer Zones

Carmichael Water District



Dewey Tank Well

Barrett Road Well

Ladera Well

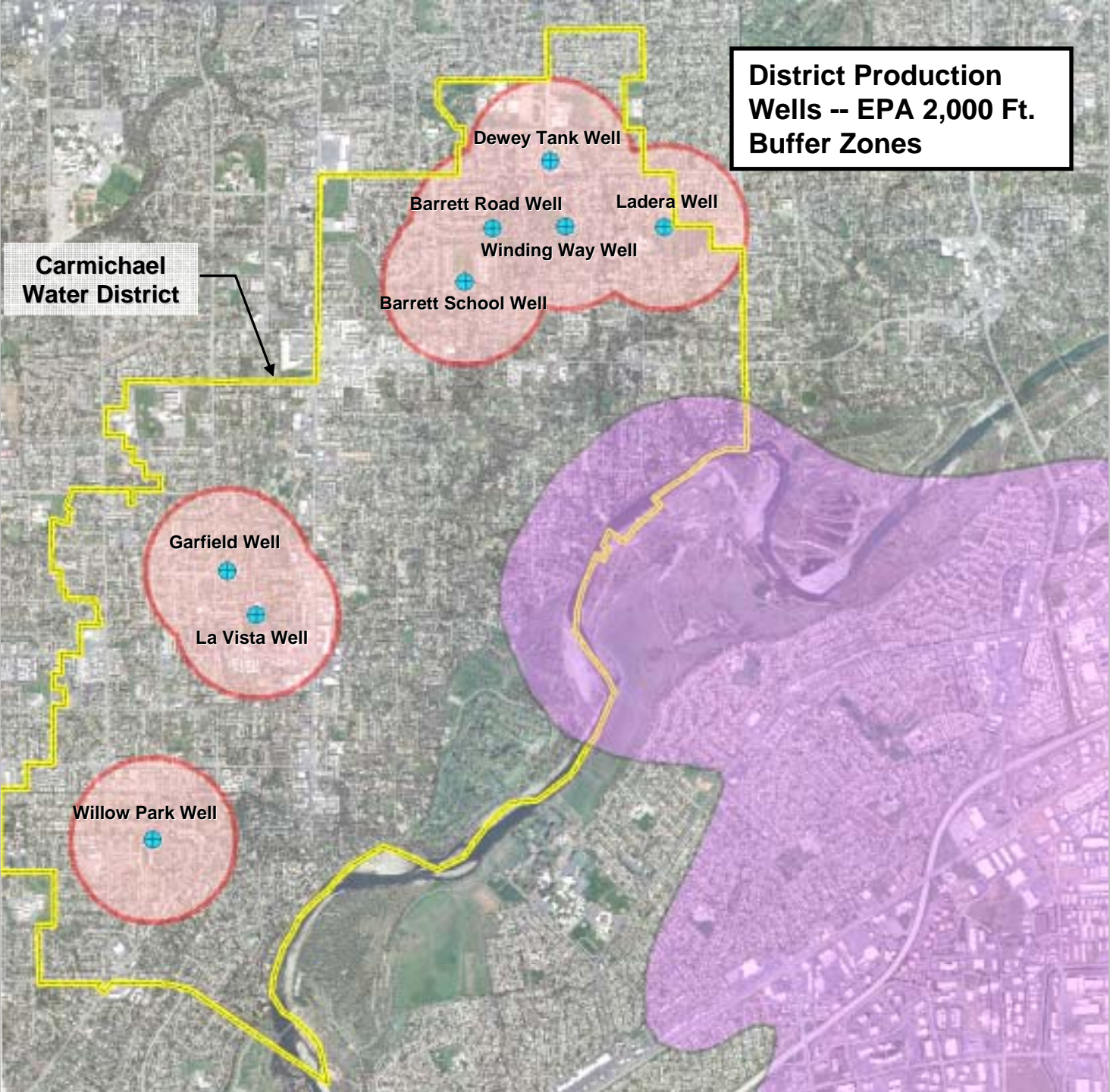
Winding Way Well

Barrett School Well

Garfield Well

La Vista Well

Willow Park Well



**District Production Wells
DWSAP Zones**

**Carmichael
Water District**

Dewey Tank and Well

Barrett Road Well

Ladera Well

Winding Way Well

Barrett School Well

Garfield Well

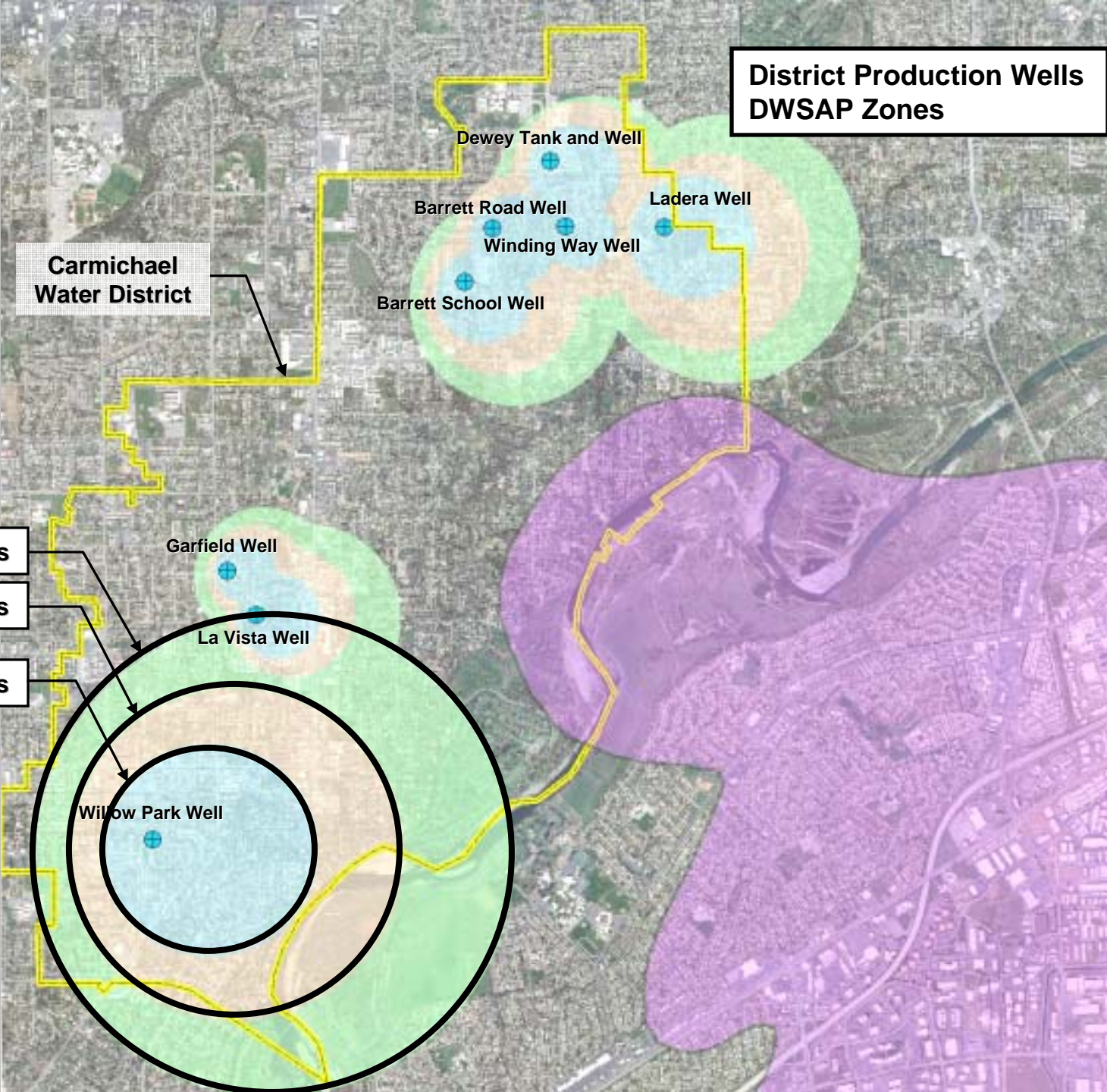
La Vista Well

Willow Park Well

10 years

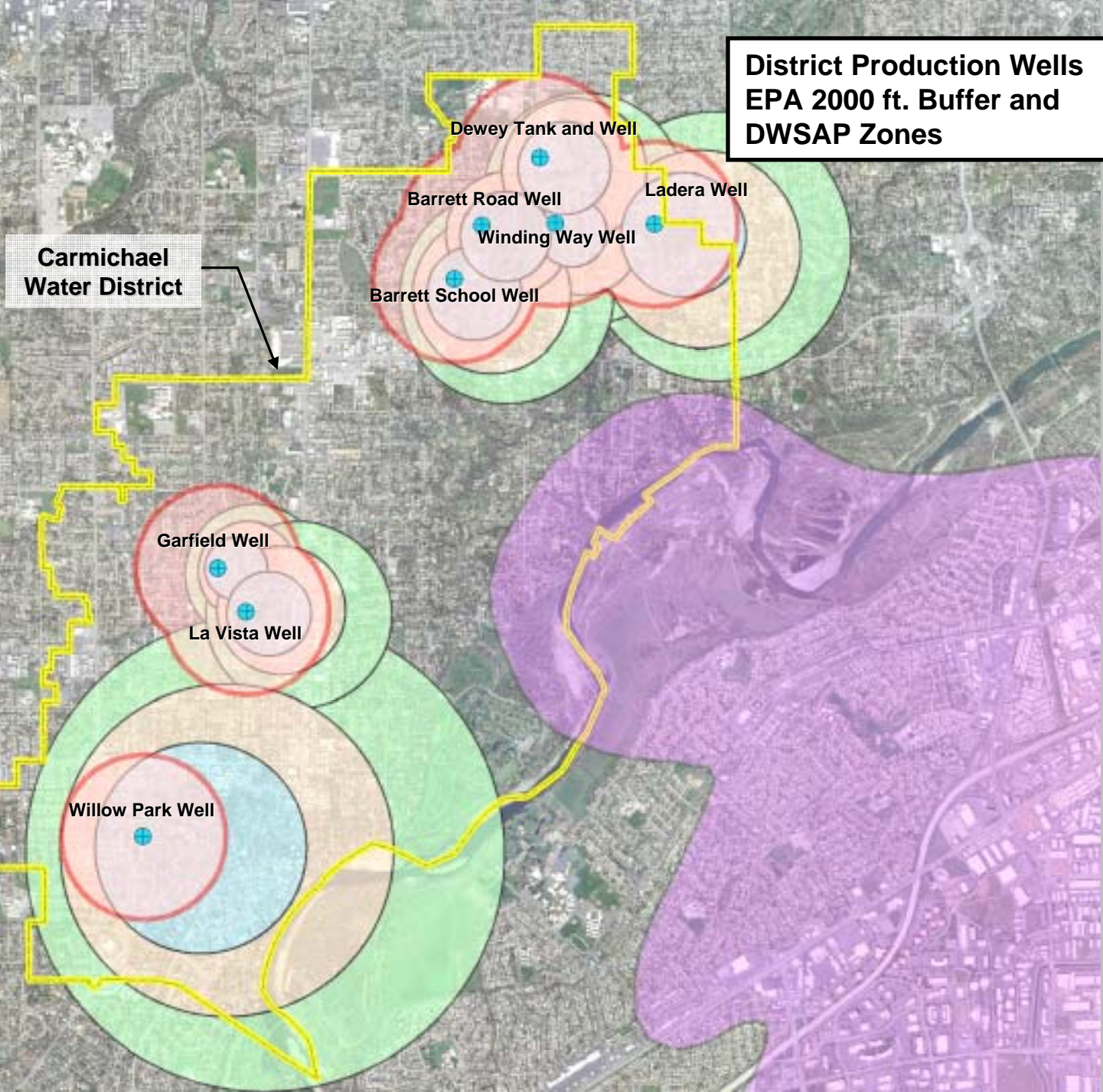
5 years

2 years

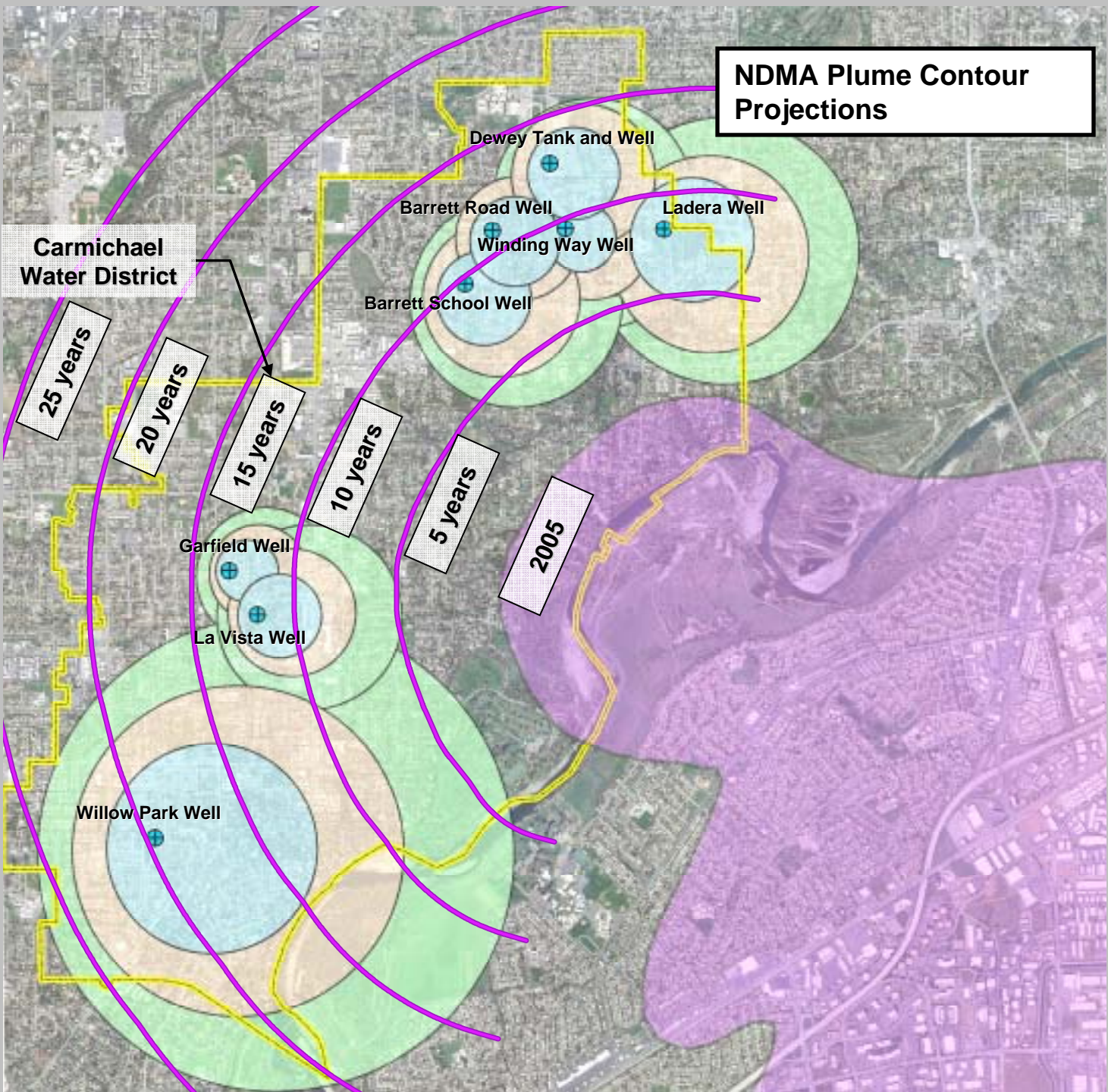


**District Production Wells
EPA 2000 ft. Buffer and
DWSAP Zones**

**Carmichael
Water District**



NDMA Plume Contour Projections



Carmichael Water District

25 years

20 years

15 years

10 years

5 years

2005

Dewey Tank and Well

Barrett Road Well

Ladera Well

Winding Way Well

Barrett School Well

Garfield Well

La Vista Well

Willow Park Well

Joint Contamination Committee SGA & Water Forums

Participants:

- ◆ Arden Cordova Water Service
- ◆ Cal-American
- ◆ Carmichael Water District
- ◆ City of Sacramento
- ◆ Citrus Heights Water District
- ◆ Fair Oaks Water District
- ◆ Sacramento County
- ◆ Sacramento Groundwater Authority
- ◆ Water Forums

Regional Committee Efforts

Goals:

1. Raise level of awareness.
2. Insist that responsible parties identify and contain all contaminant plumes.
3. Ensure responsible parties proceed with expedient clean-up.
4. Develop replacement water supplies.

Goal 1 - Raise Level of Awareness

Committee has briefed:

- ◆ Senator Deborah Ortiz
- ◆ Supervisor Roberta MacGlashan
- ◆ Supervisor Roger Dickinson

In addition – CWD has briefed:

- ◆ Congressman Dan Lungren
- ◆ Congressman John Doolittle
- ◆ Senator Dave Cox
- ◆ Assemblyman Roger Niello
- ◆ Supervisor Susan Peters

Goals 2, 3 & 4

Committee has:

- ◆ Established monthly technical meetings with USEPA, RWQCB, DTSC, DHS, Aerojet and Boeing.
- ◆ Established quarterly division chiefs meetings to discuss direction of clean-up and potential policy changes.

Carmichael Water District's Regional Efforts

Established a strategic plan

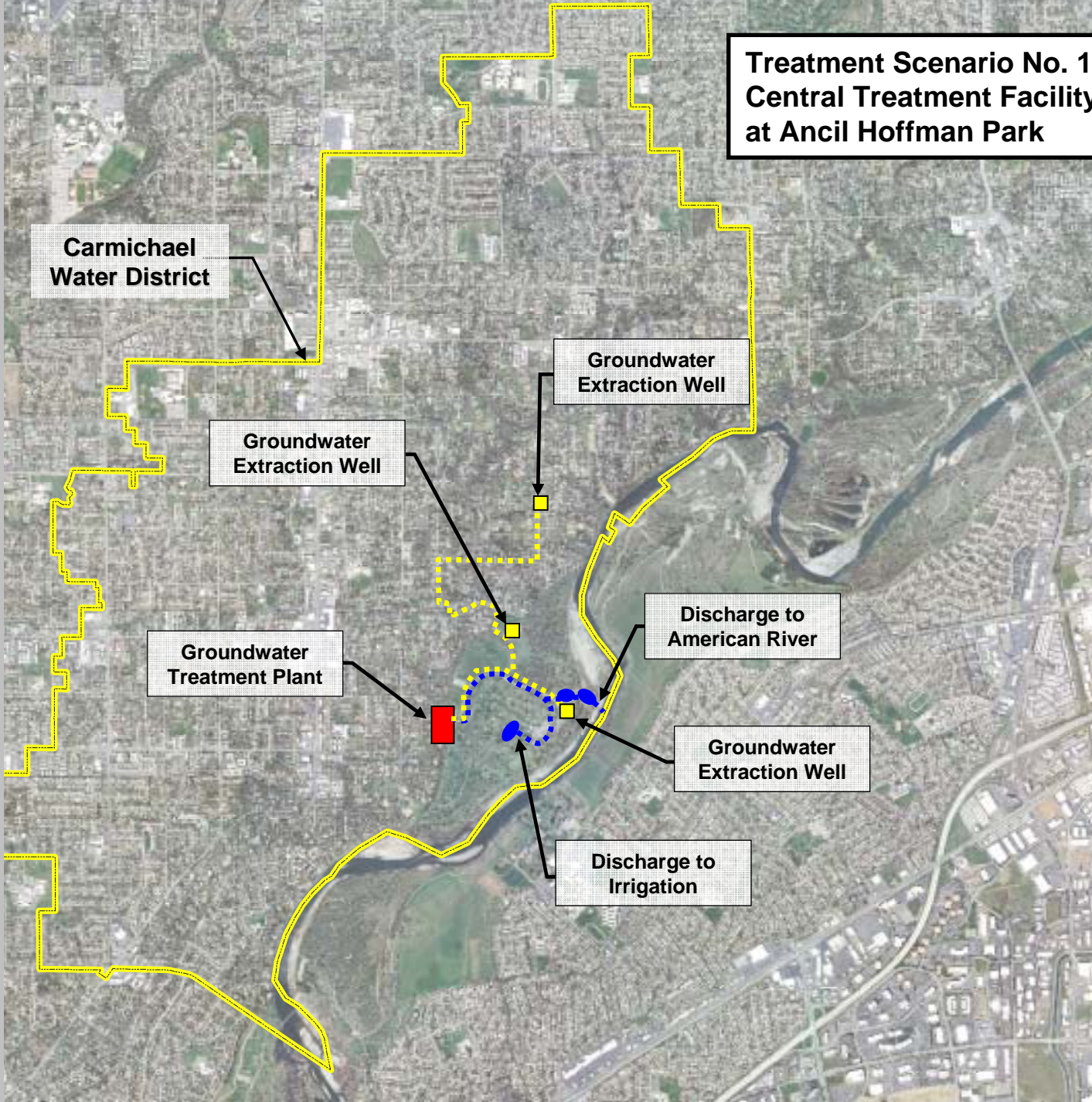
The goals of the plan:

- ◆ To provide protection to the customers of Carmichael from groundwater contamination.
- ◆ Give the District a multi-facade approach in dealing with this issue.

8 Objectives to Meet the Goals

1. Detection & identification of contaminants near our water supply wells.
2. Expansion of the Bajamont Water Treatment Plant.
3. Assist Aerojet in locating, permitting remediation facilities.
4. Using treated, extracted groundwater at Ancil Hoffman Park.
5. Increased conservation efforts to reduce overall demand.
6. Identify potential funding sources for projects.
7. Work regionally to in act legislation to increase funding to expedite remediation efforts.
8. Legal representation.

**Treatment Scenario No. 1,
Central Treatment Facility
at Ancil Hoffman Park**



**Carmichael
Water District**

**Groundwater
Extraction Well**

**Groundwater
Extraction Well**

**Groundwater
Treatment Plant**

**Discharge to
American River**

**Groundwater
Extraction Well**

**Discharge to
Irrigation**

**Treatment Scenario No. 2,
Central Treatment Facility
at Bajamont WTP**



**Carmichael
Water District**

**Groundwater
Extraction Well**

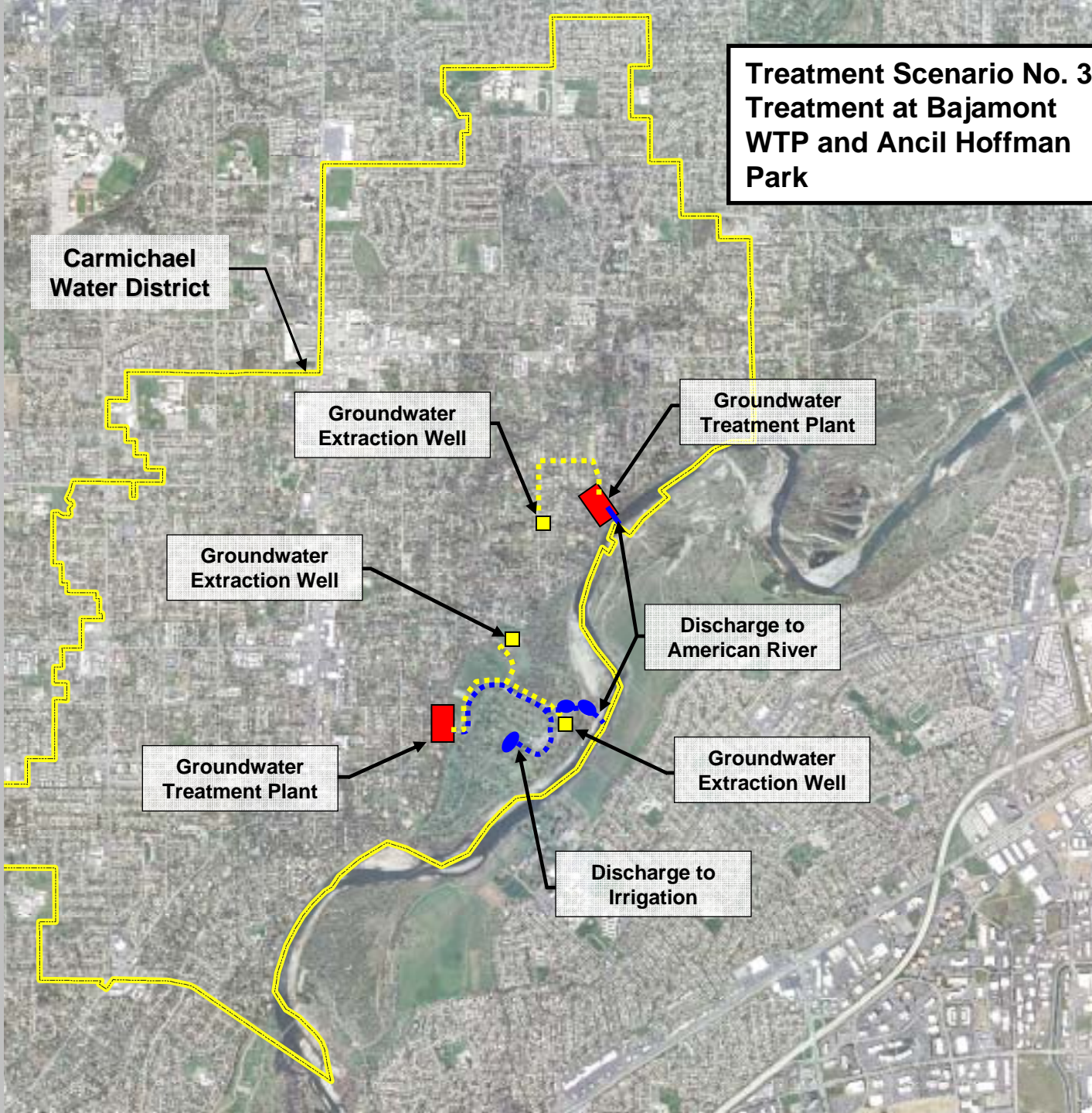
**Groundwater
Treatment Plant**

**Groundwater
Extraction Well**

**Discharge to
American River**

**Groundwater
Extraction Well**

**Treatment Scenario No. 3,
Treatment at Bajamont
WTP and Ancil Hoffman
Park**



**Carmichael
Water District**

**Groundwater
Extraction Well**

**Groundwater
Treatment Plant**

**Groundwater
Extraction Well**

**Discharge to
American River**

**Groundwater
Treatment Plant**

**Groundwater
Extraction Well**

**Discharge to
Irrigation**