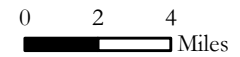


- Western Management Area (WMA)
- Central Management Area (CMA)
- Eastern Management Area (EMA)

SANTA YNEZ RIVER VALLEY GROUNDWATER BASIN
(DWR BULLETIN 118 BASIN NO. 3-105)
AND SGMA MANAGEMENT AREA BOUNDARIES

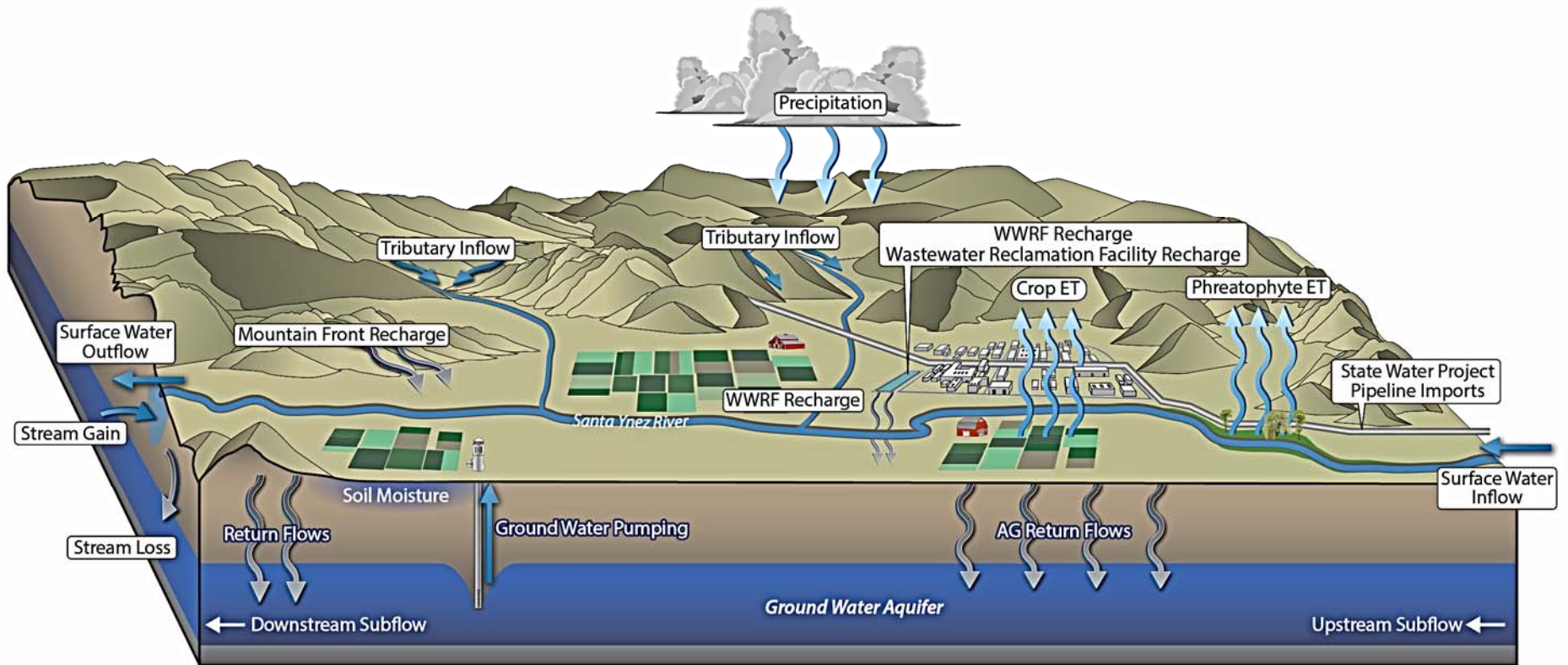
DRAFT



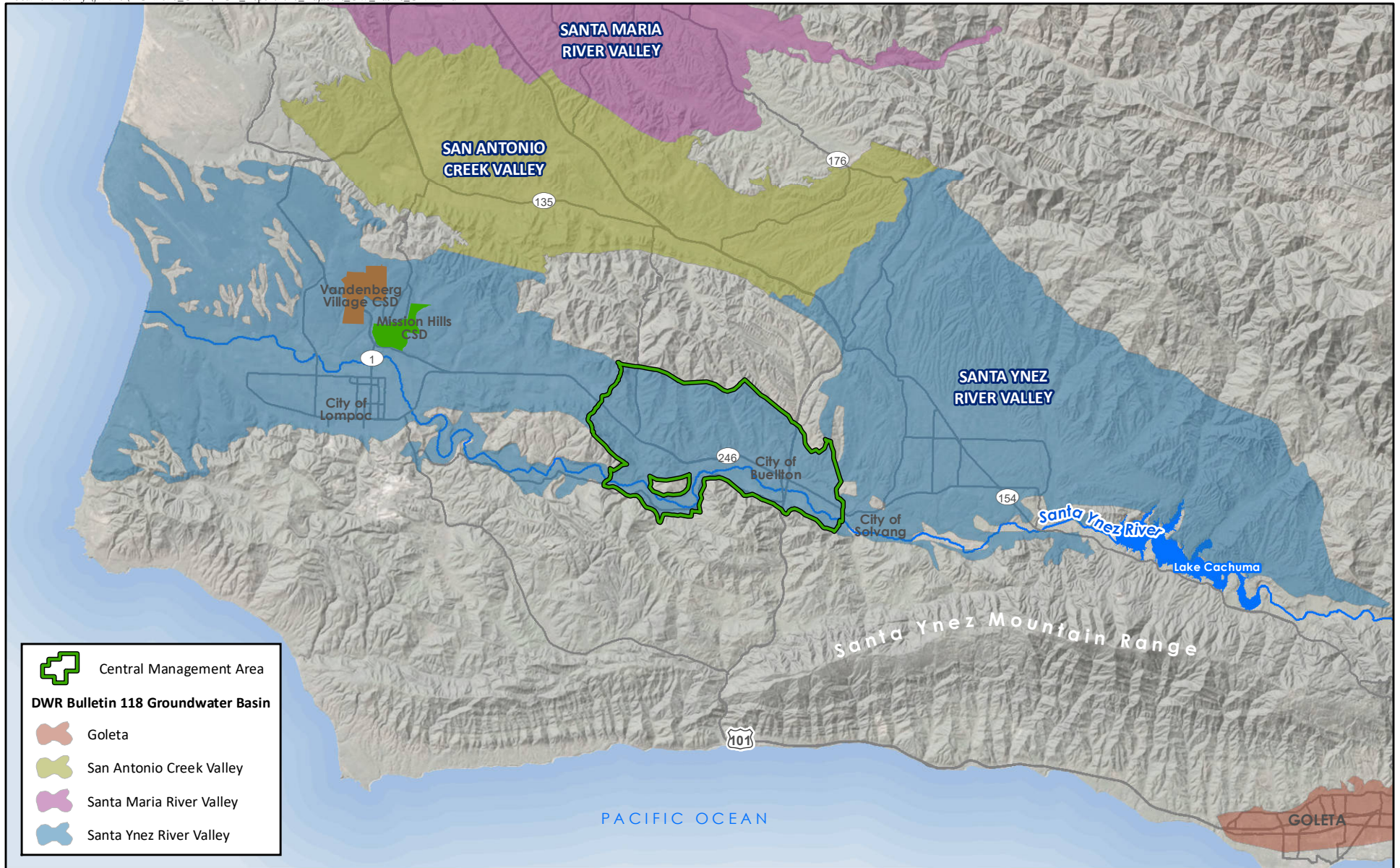
Sources:
NAIP (2018)
USGS National Elevation Dataset, 2002
Groundwater basin boundary from DWR Bulletin 118, 2018



DRAFT
**CENTRAL MANAGEMENT AREA OF THE
 SANTA YNEZ RIVER VALLEY GROUNDWATER BASIN**



**HYDROGEOLOGICAL CONCEPTUAL MODEL
 CENTRAL MANAGEMENT AREA
 SANTA YNEZ RIVER VALLEY GROUNDWATER BASIN**



Central Management Area

DWR Bulletin 118 Groundwater Basin

- Central Management Area
- Goleta
- San Antonio Creek Valley
- Santa Maria River Valley
- Santa Ynez River Valley



**ADJACENT AND NEIGHBORING GROUNDWATER BASINS
CENTRAL MANAGEMENT AREA**

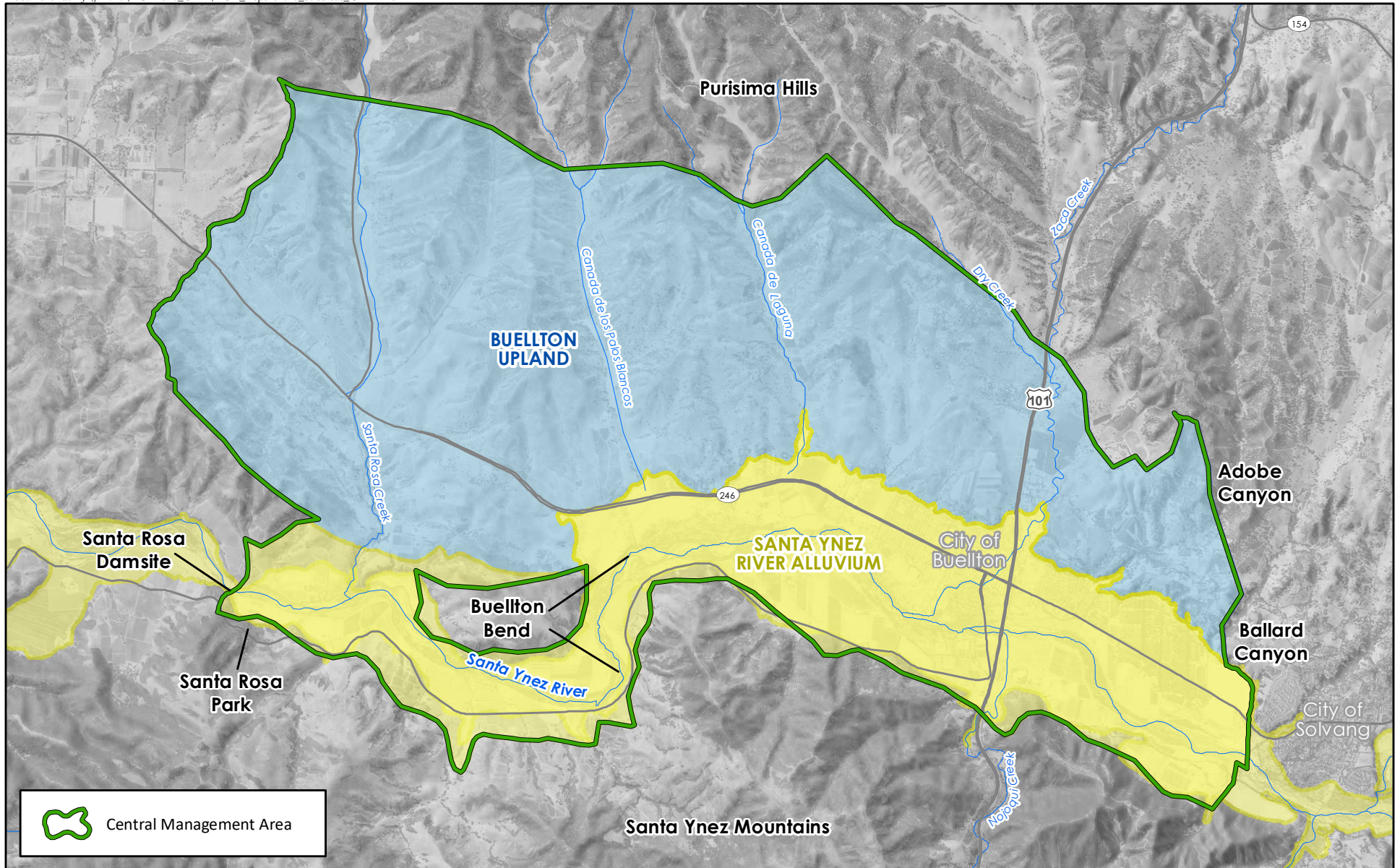
DRAFT


0 2 4 Miles

Sources:
ESRI World Imagery (2018 Maxar)
USGS National Elevation Dataset, 2002



FIGURE 1-3



 Central Management Area



SUBAREAS CENTRAL MANAGEMENT AREA

0 0.5 1 Miles

Sources:
USGS National Elevation Dataset, 2002
NAIP (2018)


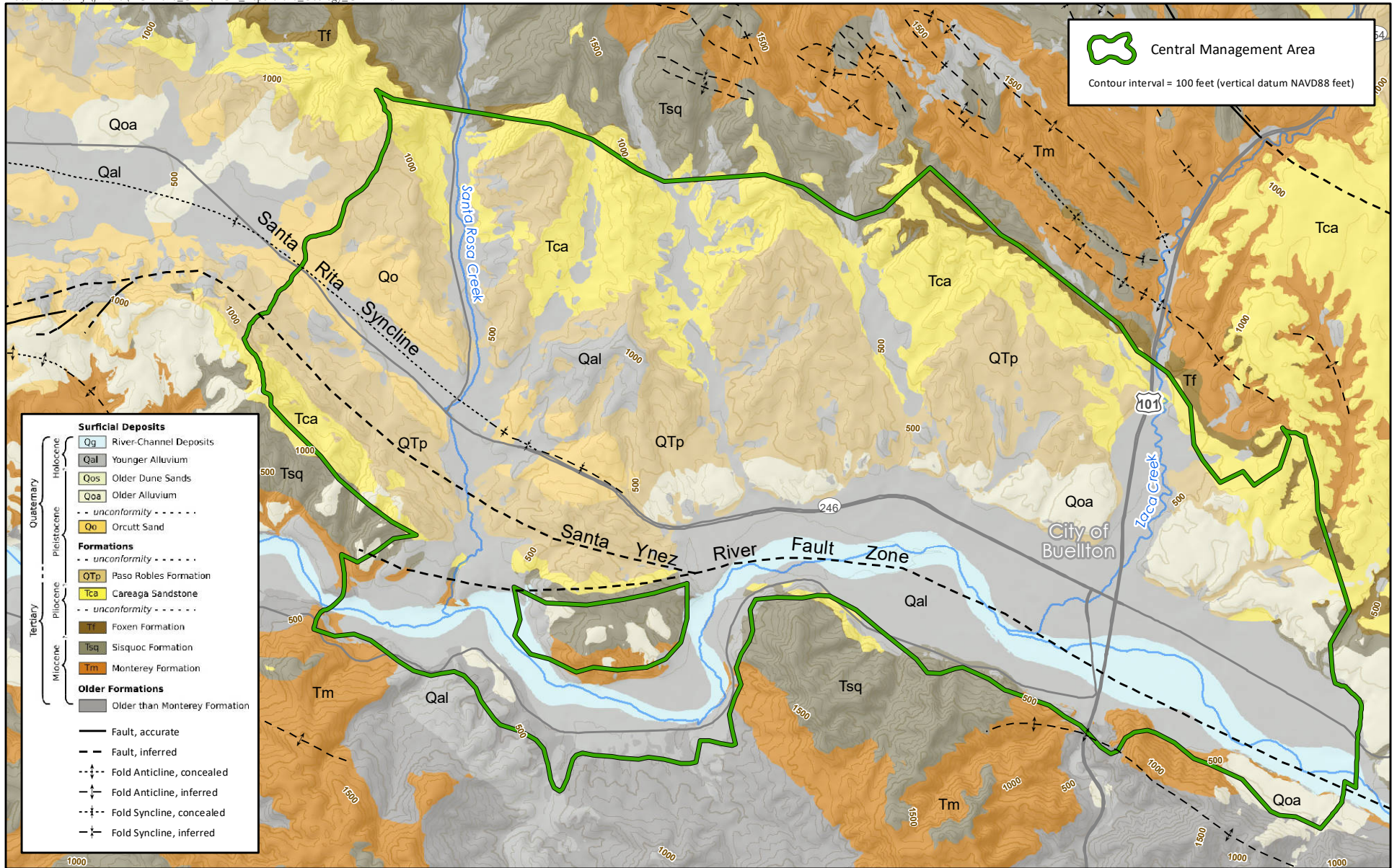


FIGURE 1.4



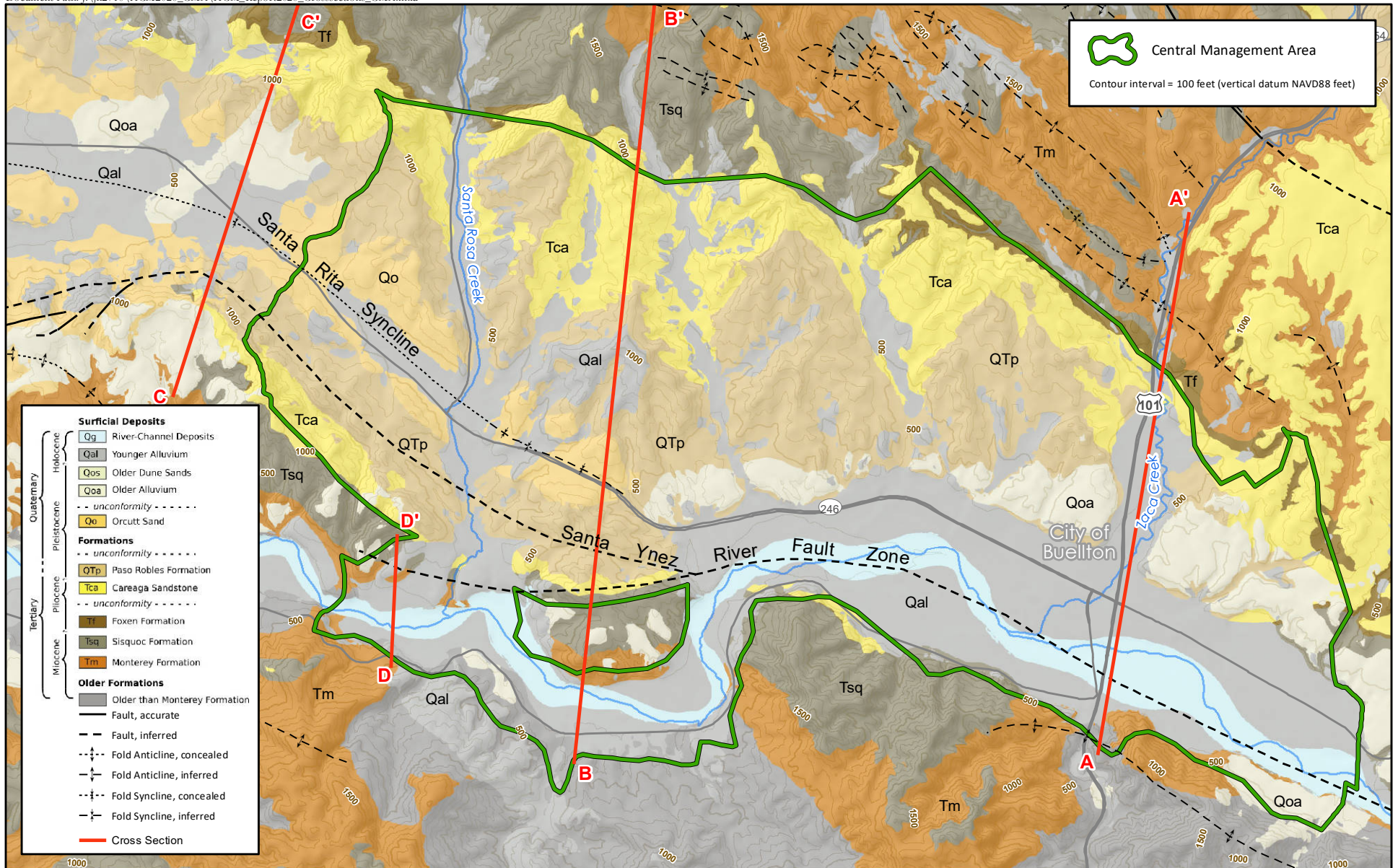
SURFACE GEOLOGY CENTRAL MANAGEMENT AREA

DRAFT

0 0.5 1 Miles

Sources:
Geosyntec, 2020; Dibblee, 1993; USGS, 2020
USGS National Elevation Dataset, 2002





GEOLOGIC CROSS SECTIONS CENTRAL MANAGEMENT AREA

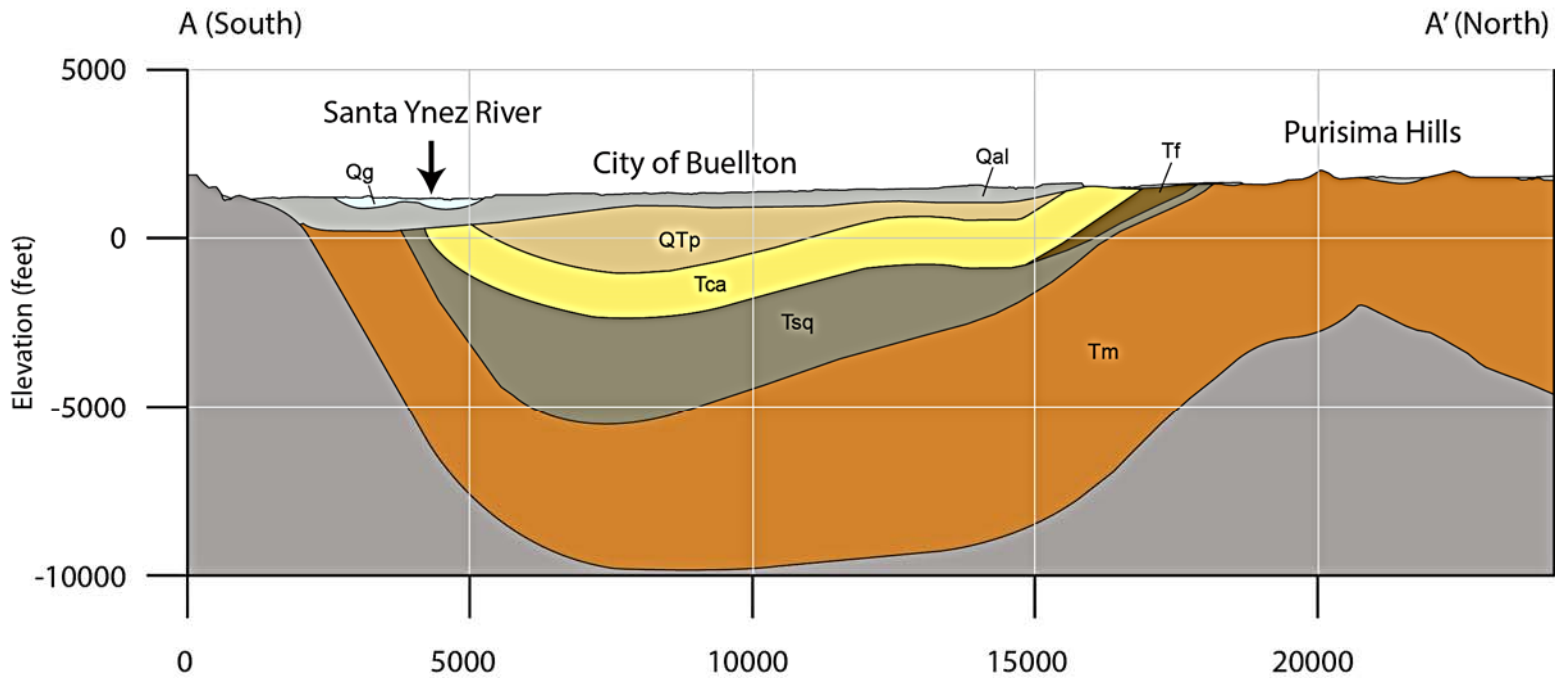
DRAFT

0 0.5 1 Miles

Sources:
Geosyntec, 2020; Dibblee, 1993; USGS, 2020
USGS National Elevation Dataset, 2002



FIGURE 2-2



deep cross section
2x vertical exaggeration

Model Geology

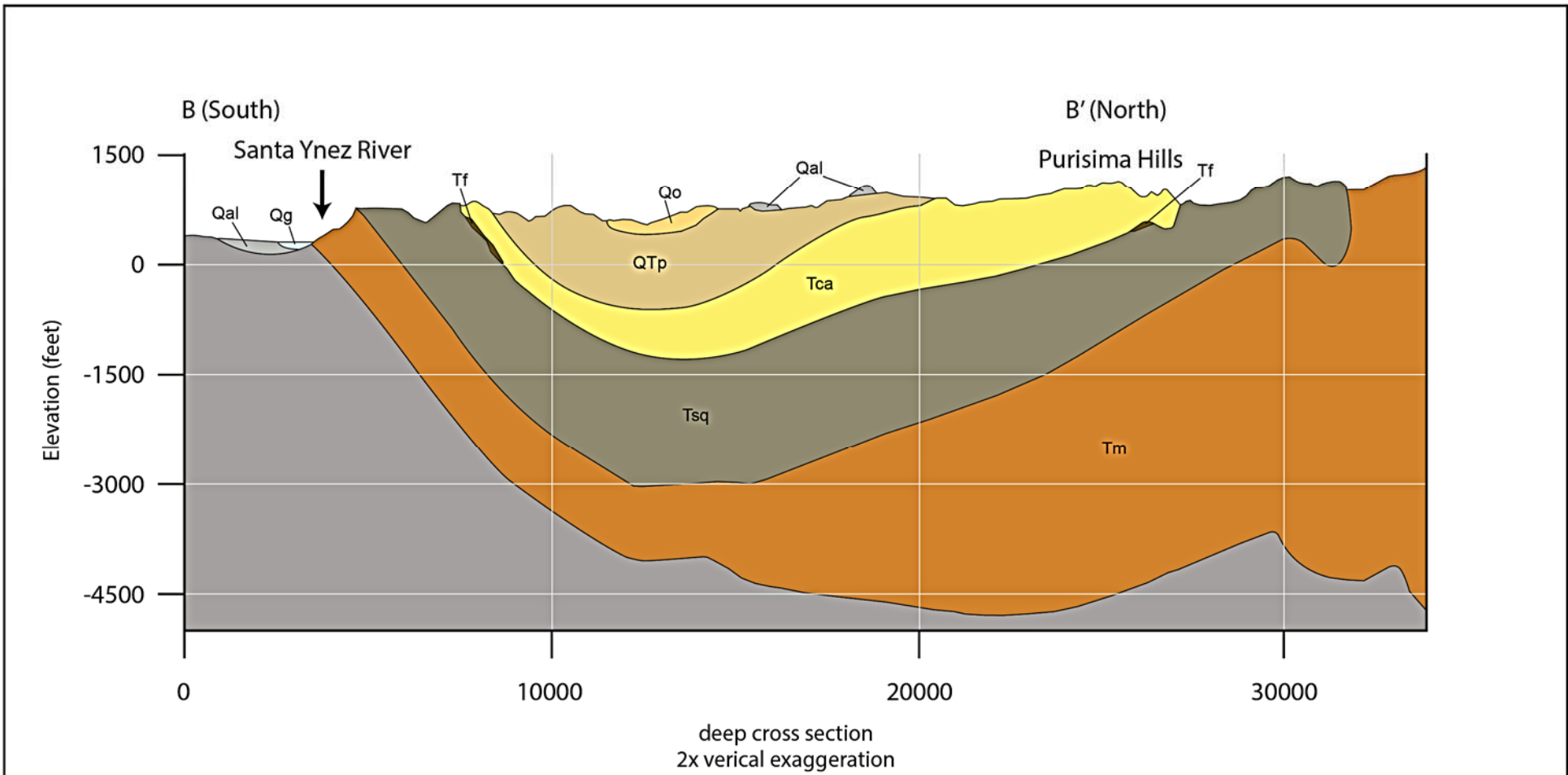
- | | | |
|-----------------------------|-----------------------------|--------------------------------|
| River-Channel Deposits (Qg) | Orcutt Sand (Qo) | Sisquoc Formation (Tsq) |
| Younger Alluvium (Qal) | Paso Robles Formation (QTP) | Monterey Formation (Tm) |
| Older Dune Sands (Qos) | Careaga Sandstone (Tca) | Tertiary - Older than Monterey |
| Older Alluvium (Qoa) | Foxen Formation (Tf) | |

Cross sections based on 3D geologic model Geosyntec (2020).



Geosyntec
consultants

Central Management Area Geologic Cross-section A-A'



Model Geology

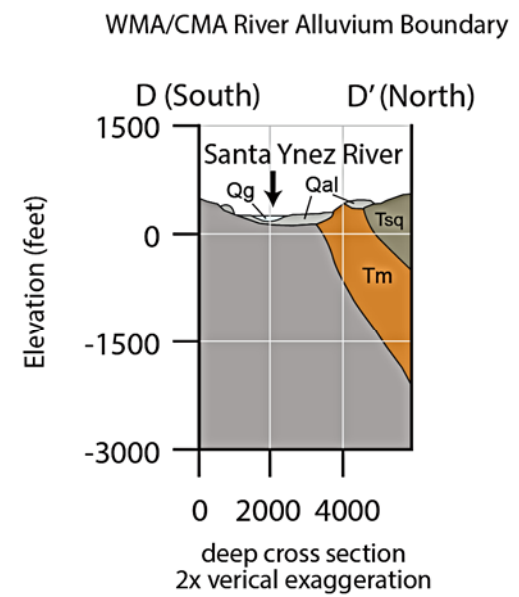
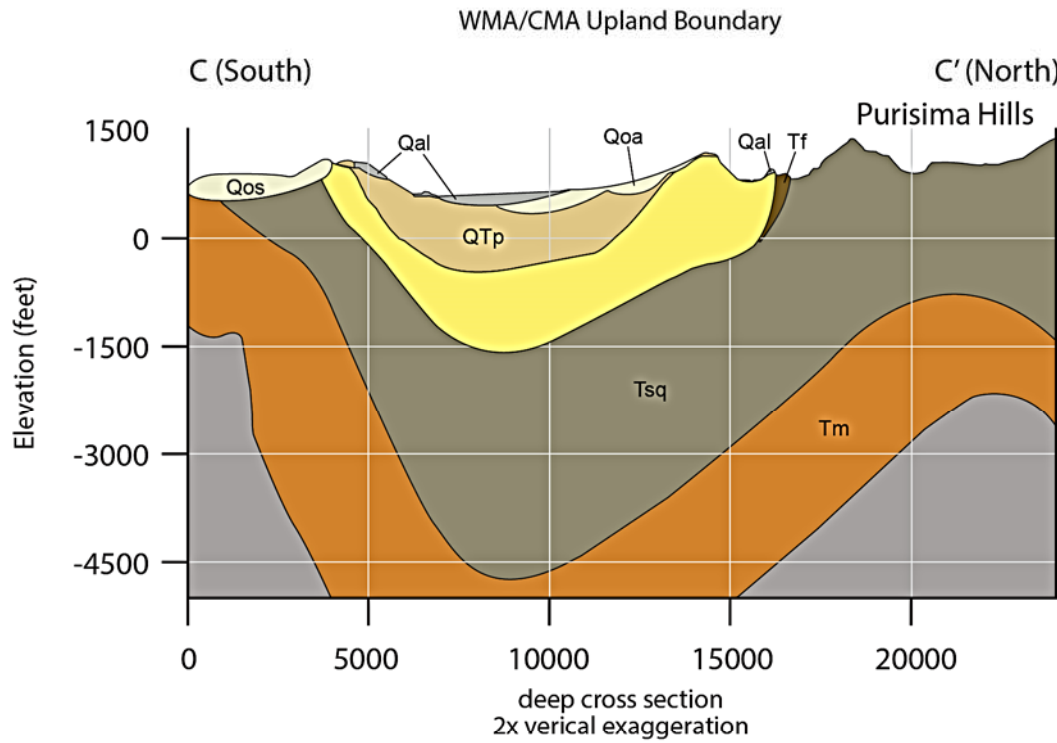
- | | | |
|-----------------------------|-----------------------------|--------------------------------|
| River-Channel Deposits (Qg) | Orcutt Sand (Qo) | Sisquoc Formation (Tsq) |
| Younger Alluvium (Qal) | Paso Robles Formation (QTp) | Monterey Formation (Tm) |
| Older Dune Sands (Qos) | Careaga Sandstone (Tca) | Tertiary - Older than Monterey |
| Older Alluvium (Qoa) | Foxen Formation (Tf) | |

Cross sections based on 3D geologic model Geosyntec (2020).



Geosyntec
consultants

Central Management Area Geologic Cross-section B-B'



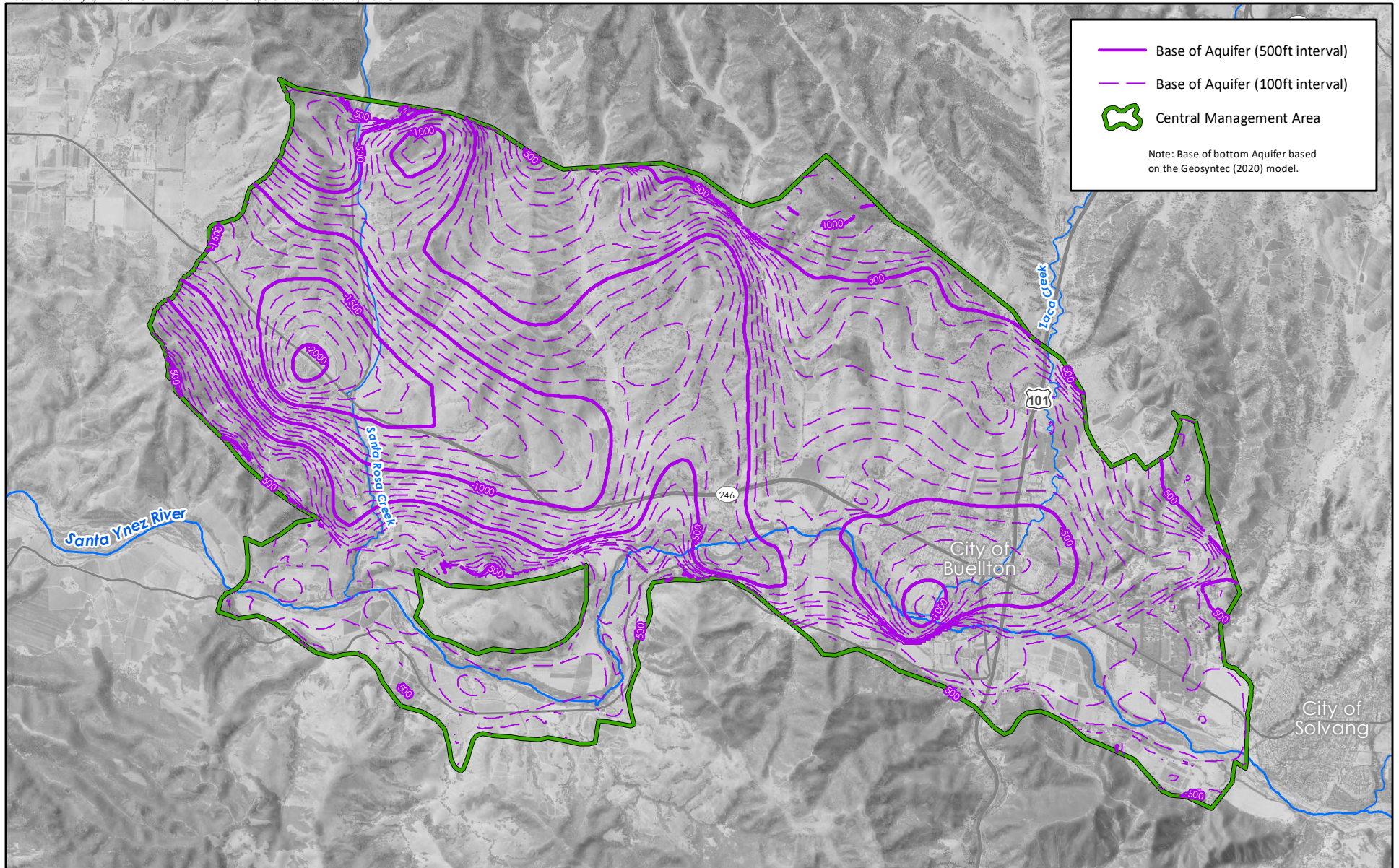
- Model Geology**
- | | | |
|-----------------------------|-----------------------------|--------------------------------|
| River-Channel Deposits (Qg) | Orcutt Sand (Qo) | Sisquoc Formation (Tsq) |
| Younger Alluvium (Qal) | Paso Robles Formation (QTp) | Monterey Formation (Tm) |
| Older Dune Sands (Qos) | Careaga Sandstone (Tca) | Tertiary - Older than Monterey |
| Older Alluvium (Qoa) | Foxen Formation (Tf) | |

Cross sections based on 3D geologic model Geosyntec (2020).



Geosyntec
consultants

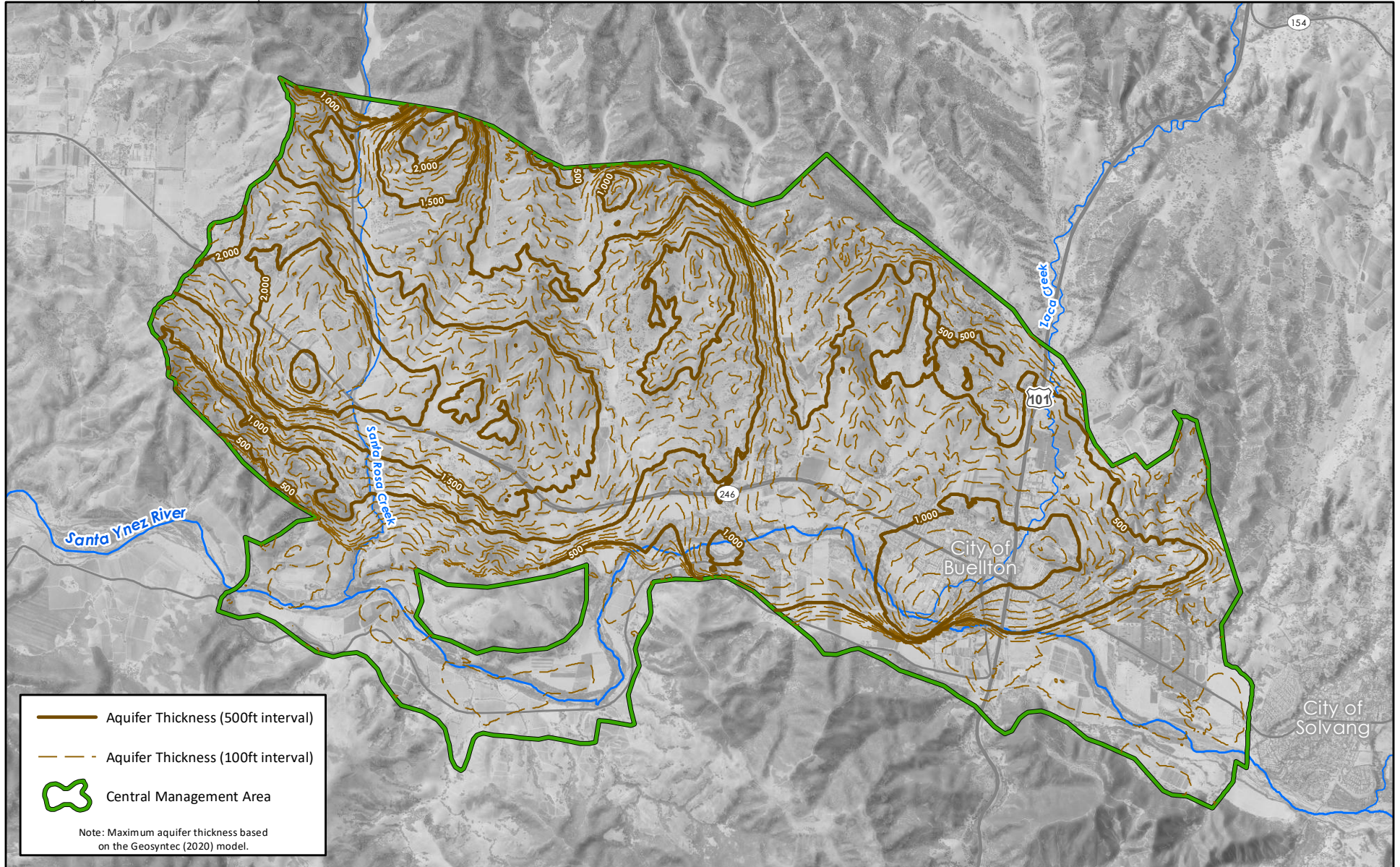
Central Management Area Geologic Cross-sections C-C' and D-D'



BOTTOM OF THE BASIN SUBSURFACE ELEVATION CONTOUR WITHIN CENTRAL MANAGEMENT AREA

DRAFT
0 0.5 1 Miles
Sources:
USGS National Elevation Dataset, 2002
NAIP (2018)
Geosyntec (2020)





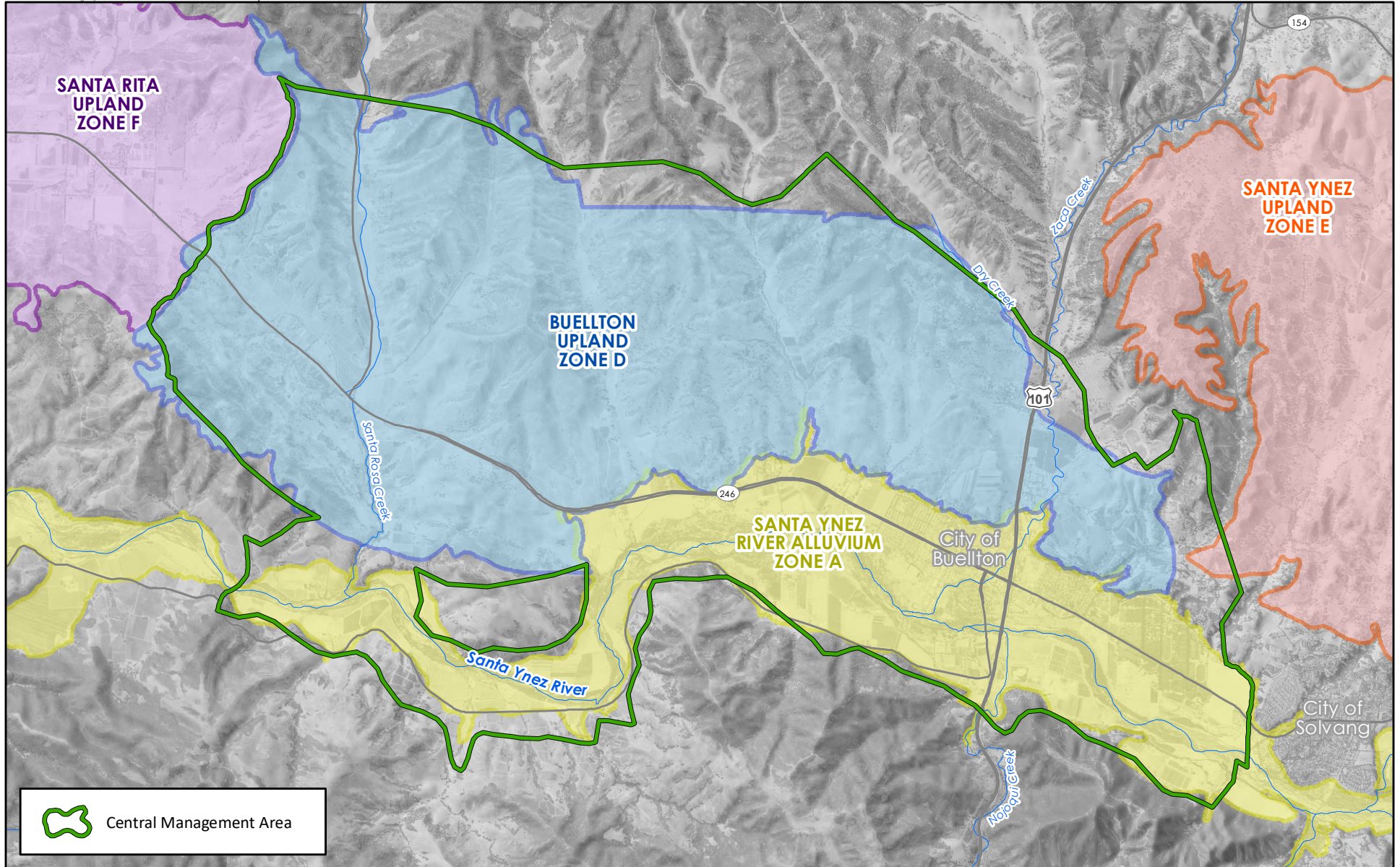
MAXIMUM THICKNESS OF THE BASIN WITHIN CENTRAL MANAGEMENT AREA


DRAFT

0 0.5 1 Miles

Sources:
USGS National Elevation Dataset, 2002
NAIP (2018)
Geosyntec (2020)





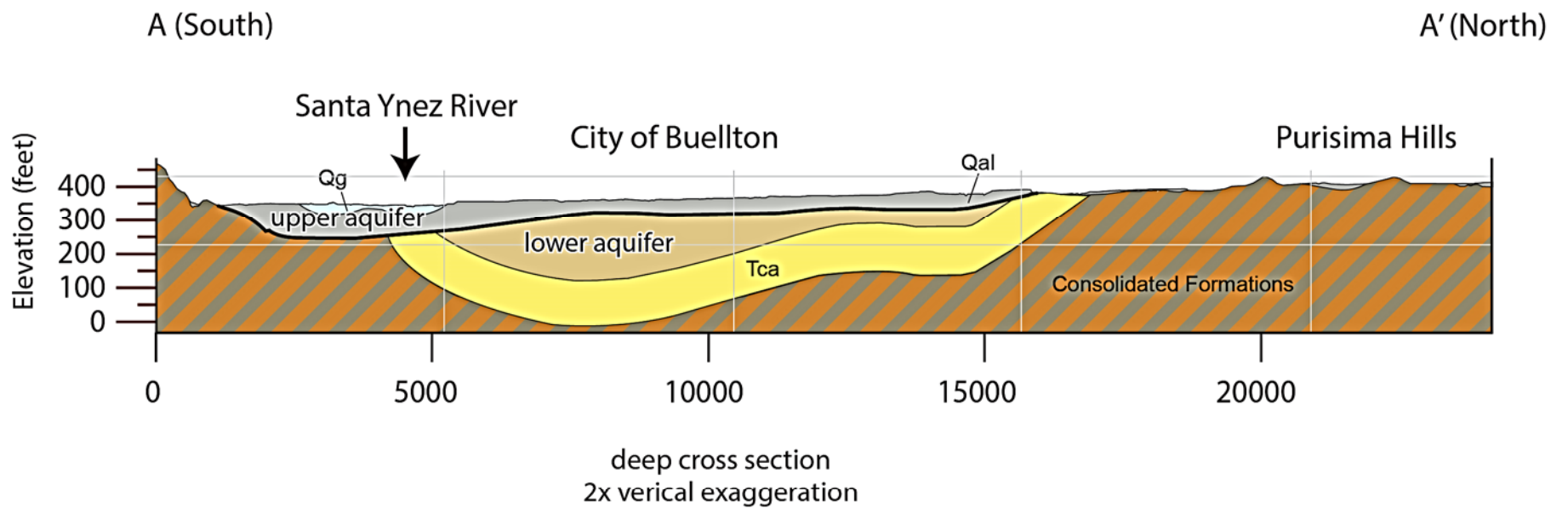
 Central Management Area







**SANTA YNEZ RIVER
WATER CONSERVATION DISTRICT
GROUNDWATER ZONES
AND THE CENTRAL MANAGEMENT AREA**



FIGURE 3-3



Model Geology

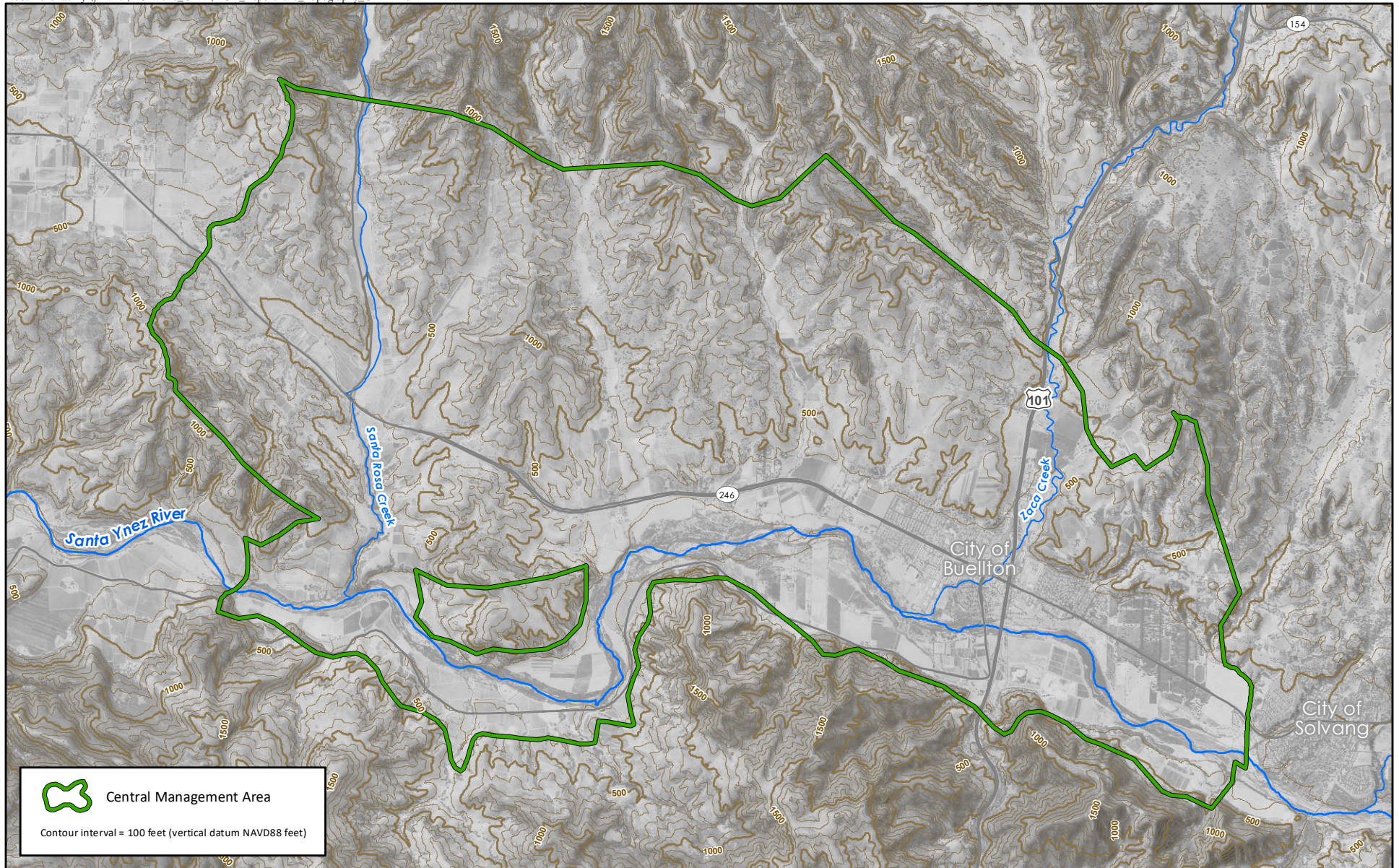
Upper aquifer		Lower aquifer		Consolidated Formations (Ts _q and T _m)
	River-Channel Deposits (Qg)		Paso Robles Formation (QT _p)	
	Younger Alluvium (Qal)		Careaga Sandstone (Tca)	

Cross sections based on 3D geologic model Geosyntec (2020).



Geosyntec
consultants

Central Management Area Aquifer Cross-section A-A'



TOPOGRAPHY CENTRAL MANAGEMENT AREA

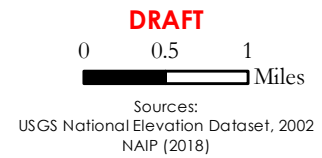
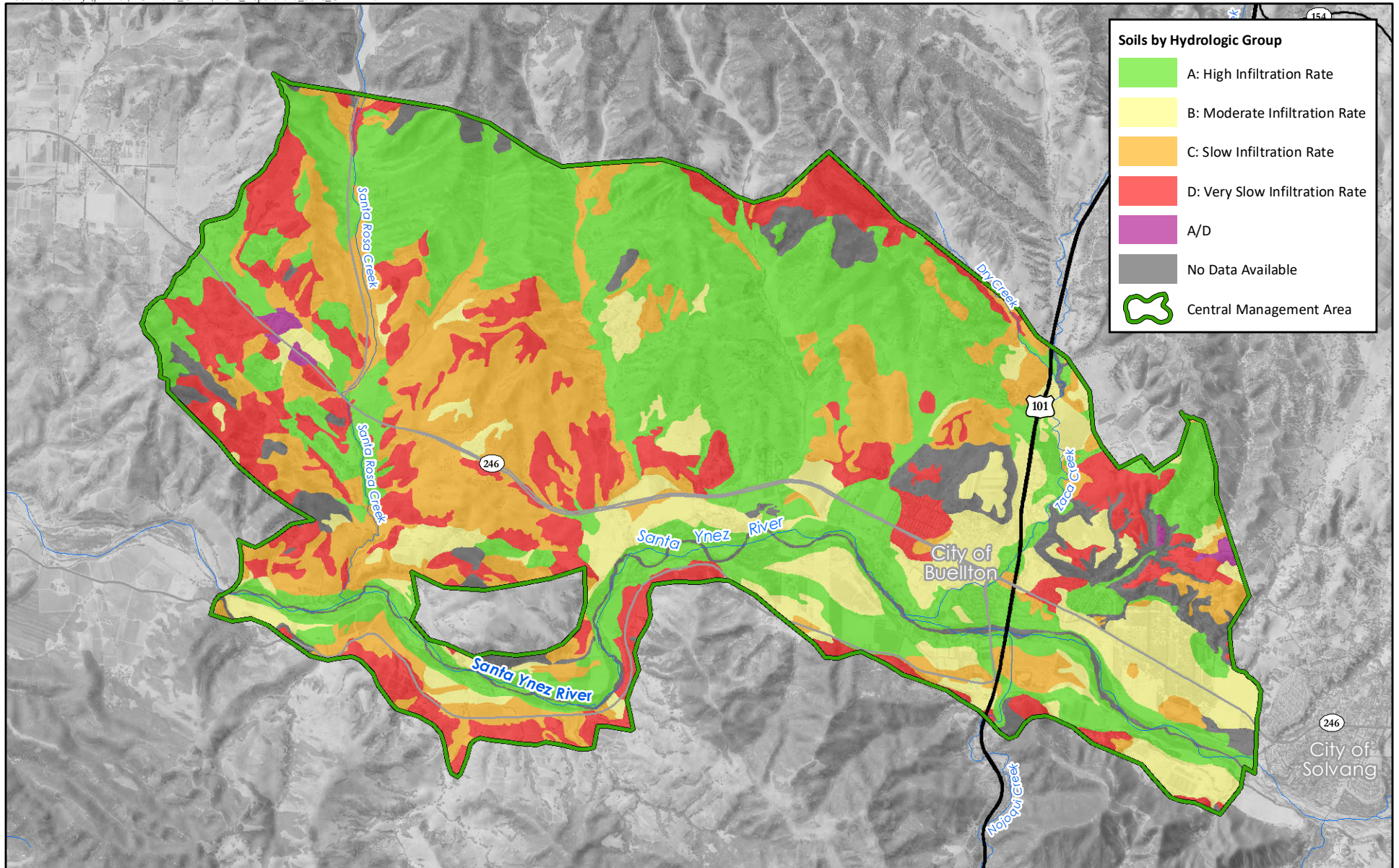


FIGURE 4-1



SOIL CHARACTERISTICS CENTRAL MANAGEMENT AREA

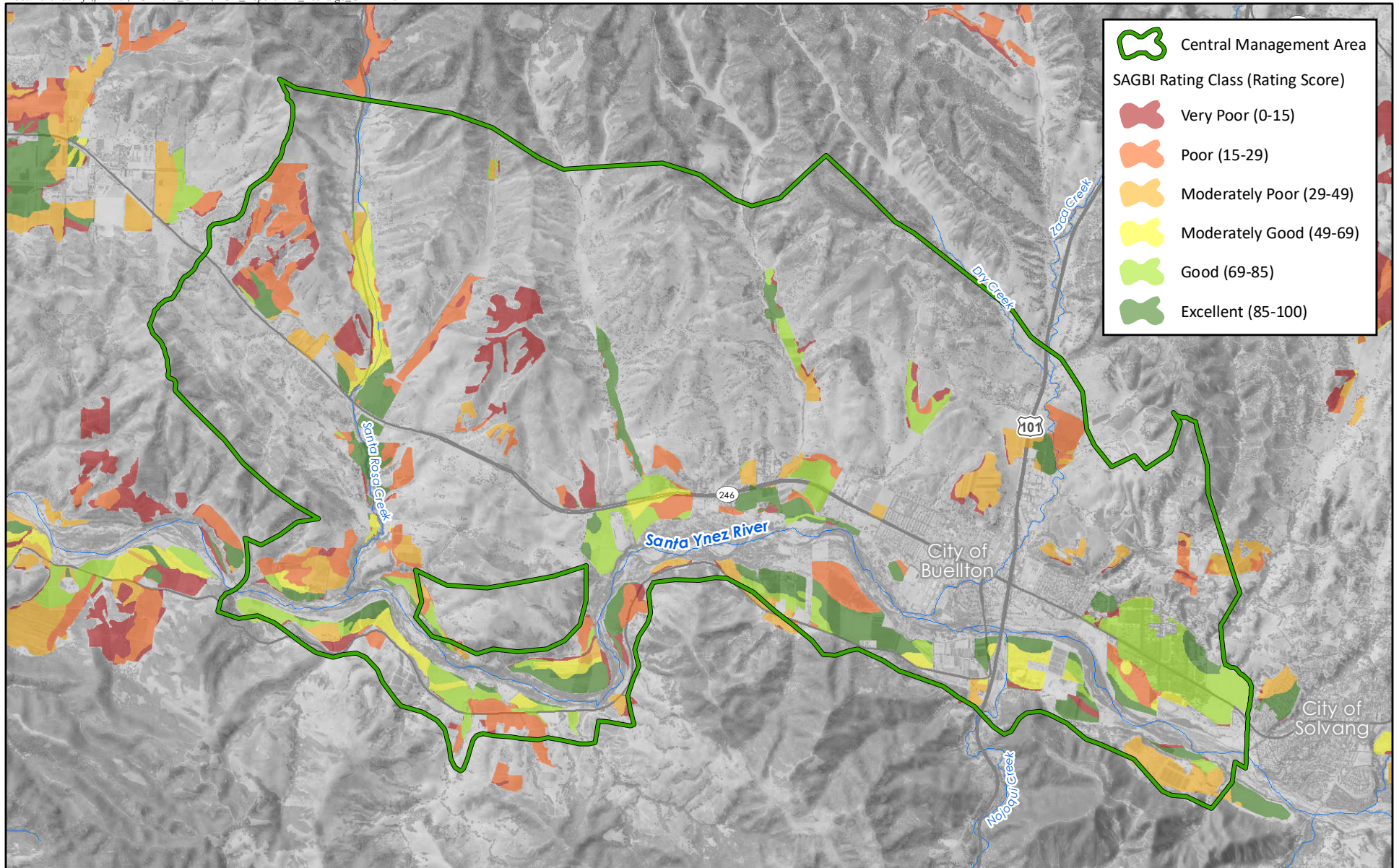
DRAFT

0 0.5 1 Miles

Source:
SSURGO Soil Survey Geographic Database,
National Resources Conservation Service.



FIGURE 4.2





POTENTIAL GROUNDWATER RECHARGE AREAS CENTRAL MANAGEMENT AREA



Source:
Soil Agricultural Groundwater Banking Index (SAGBI) - UC Davis, 2020

FIGURE 4.3



-  Central Management Area
-  Watershed Boundary

SANTA YNEZ RIVER WATERSHED AND SANTA YNEZ RIVER VALLEY GROUNDWATER BASIN CENTRAL MANAGEMENT AREA

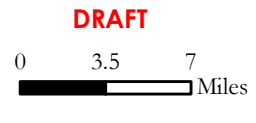
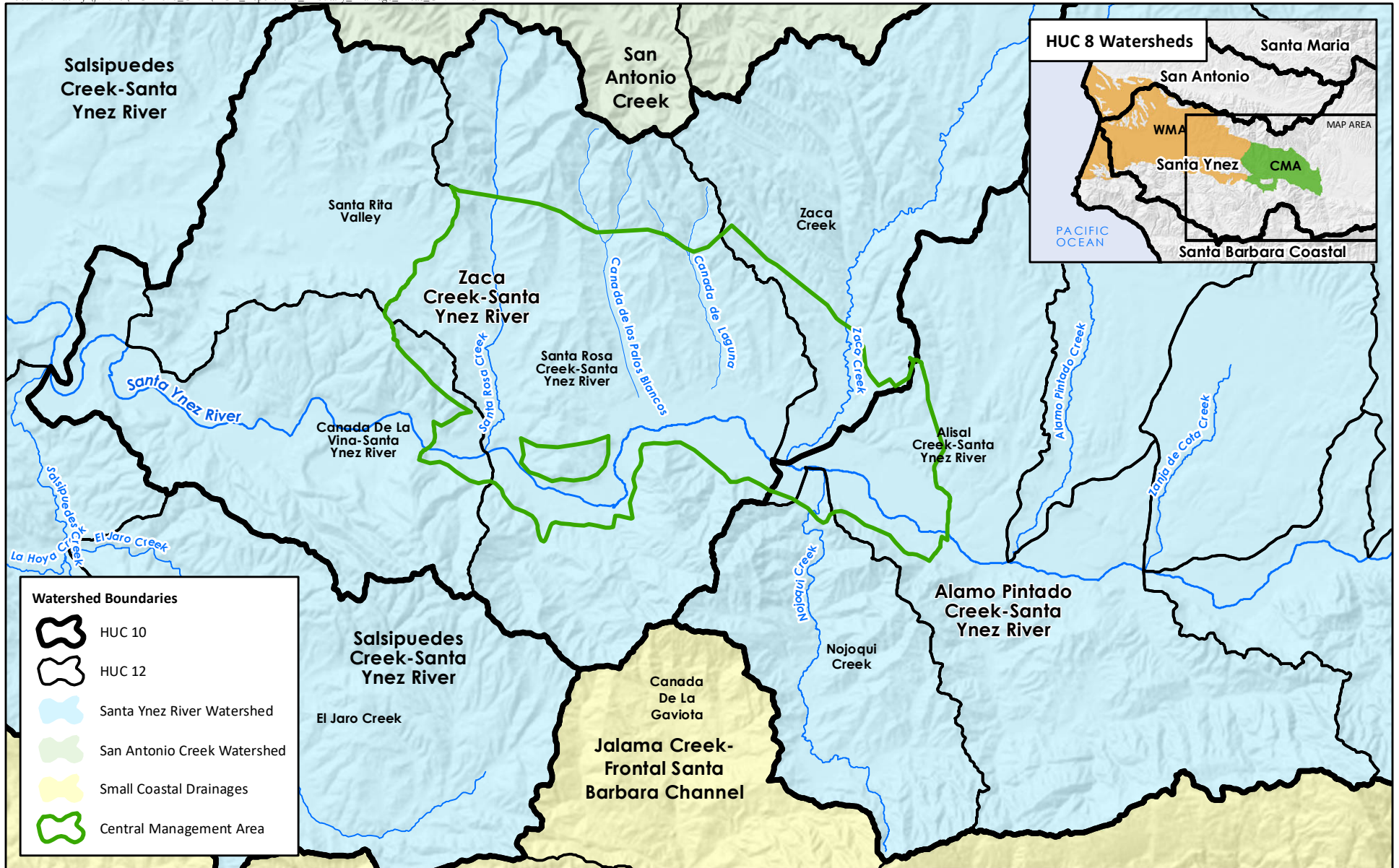


FIGURE 4-4



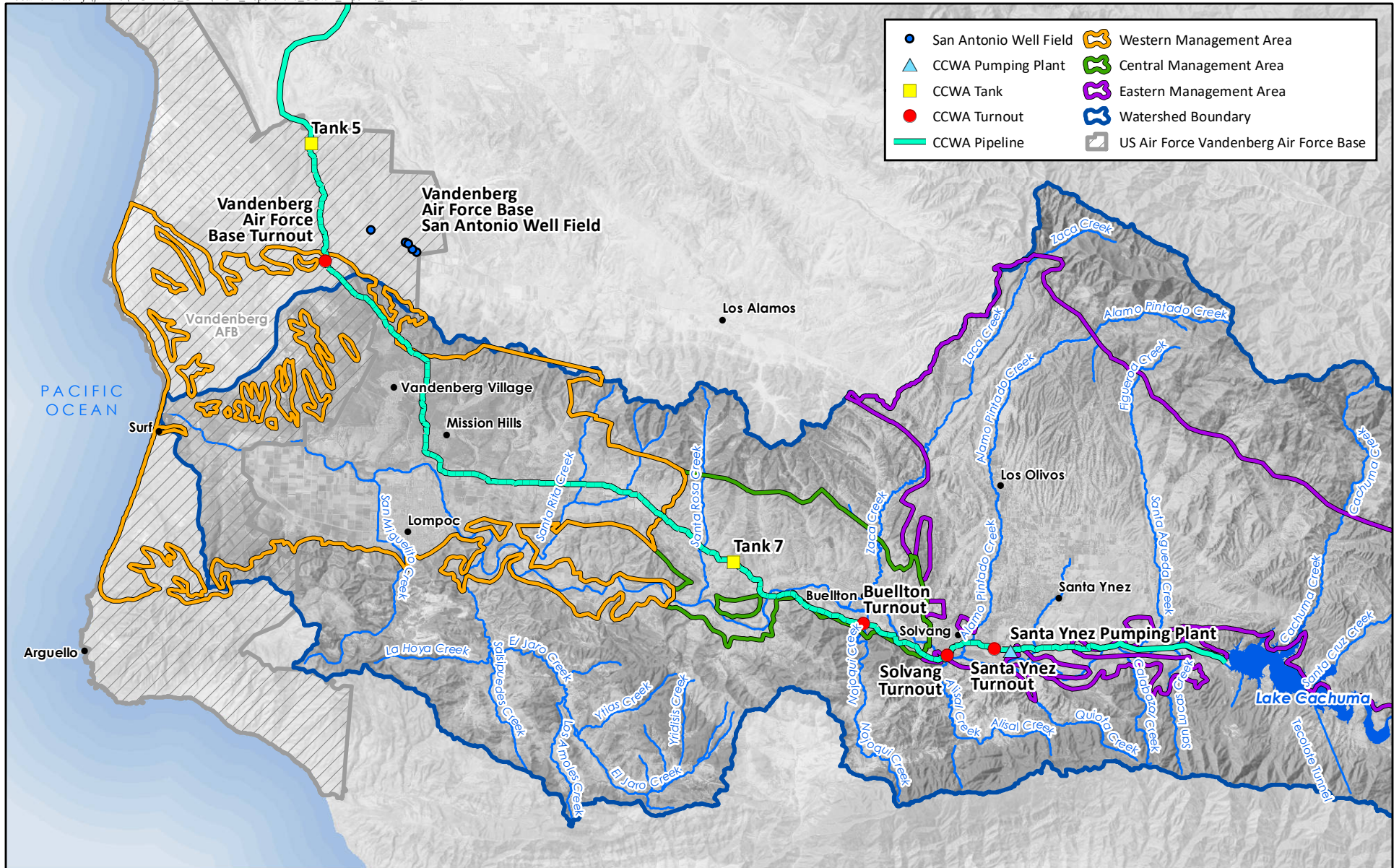
**TRIBUTARY DRAINAGE AREAS
CENTRAL MANAGEMENT AREA**

DRAFT

0 1 2 Miles

Sources:
USGS National Elevation Dataset, 2002
National Hydrography Dataset

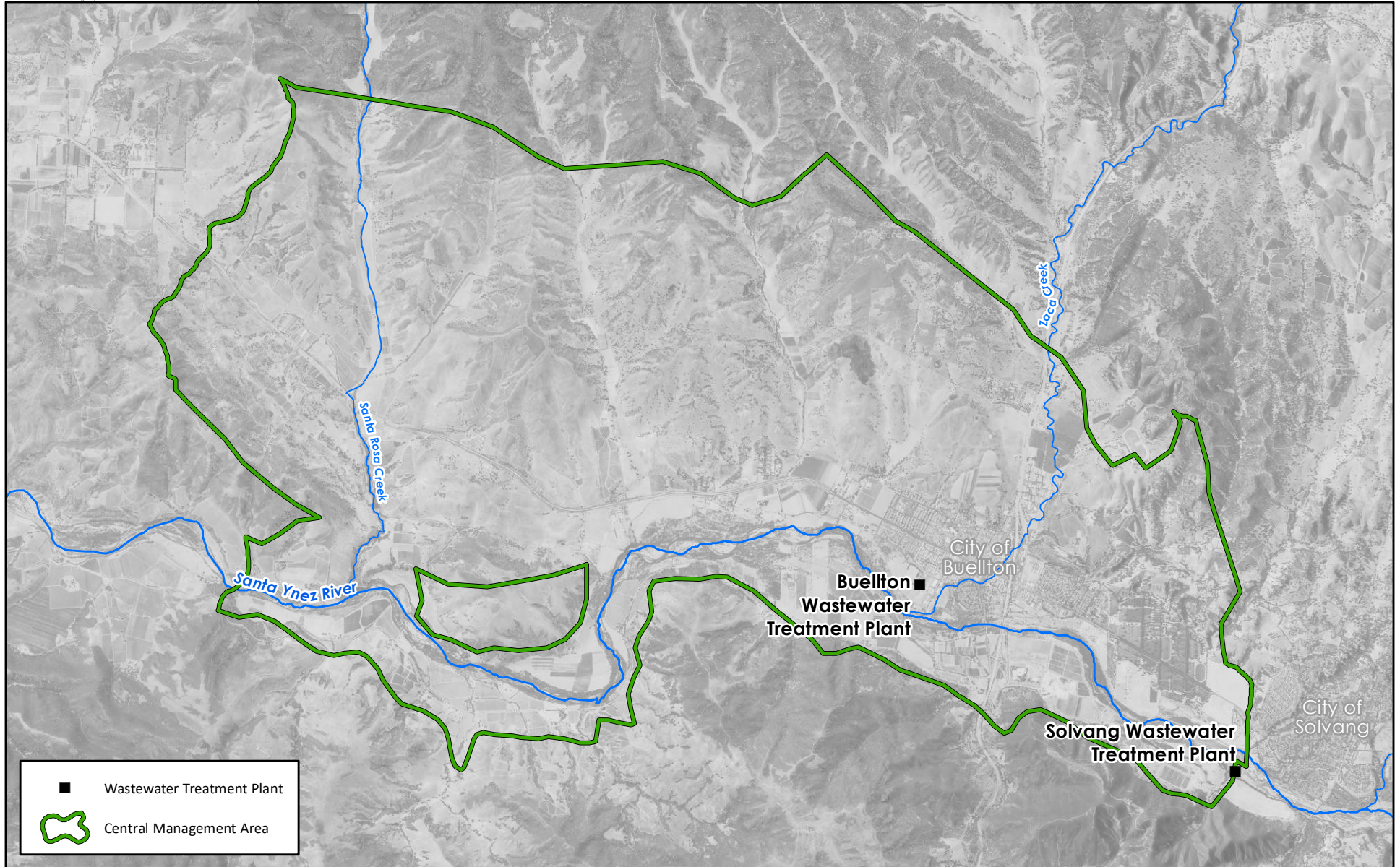
FIGURE 4.5



**WATER IMPORTS
CCWA PIPELINE AND SAN ANTONIO WELLS
WESTERN AND CENTRAL MANAGEMENT AREAS**

DRAFT
0 2 4 Miles
Source:
Central Coast Water Authority (CCWA)



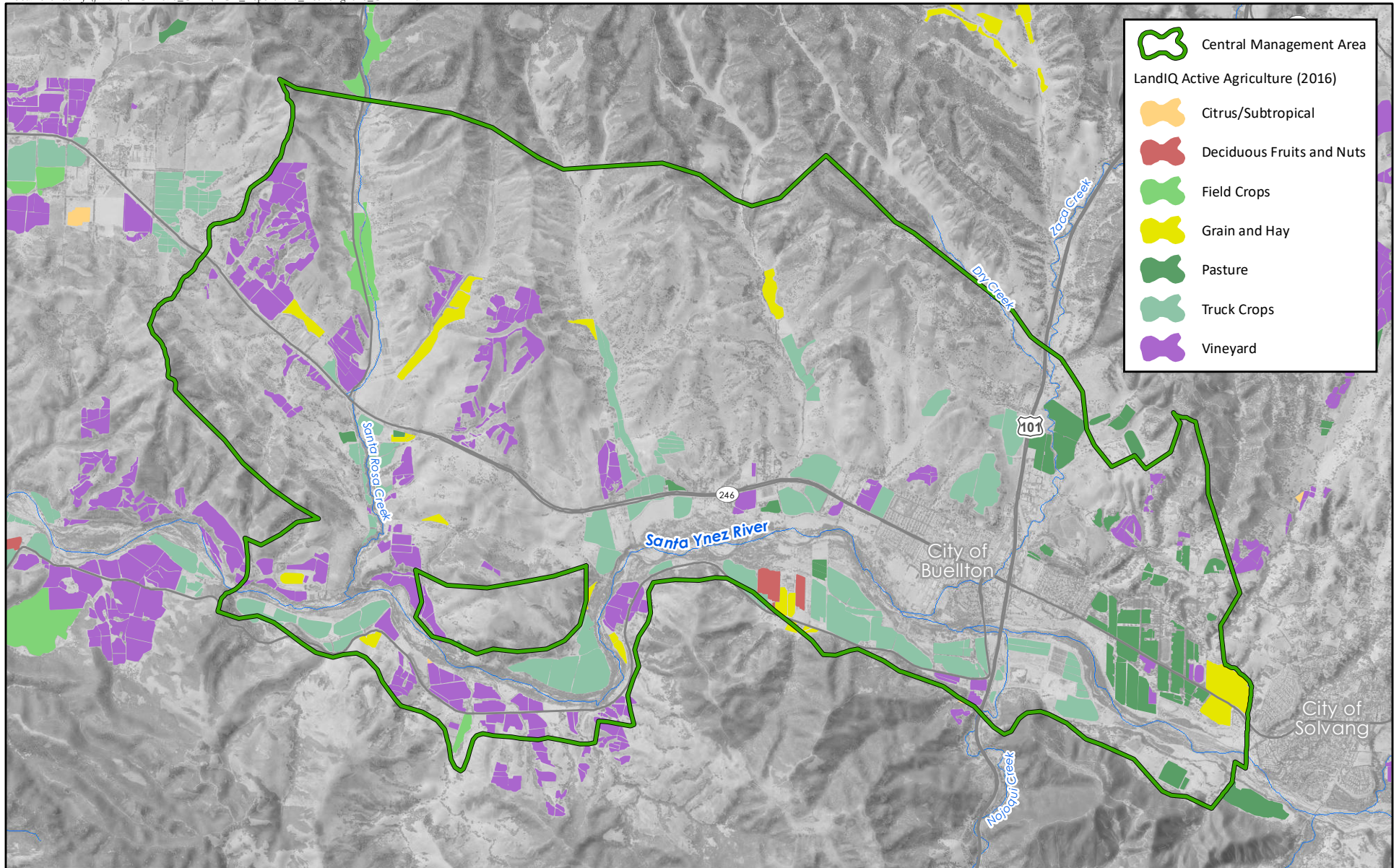


WASTEWATER TREATMENT PLANTS CENTRAL MANAGEMENT AREA

DRAFT
0 0.5 1 Miles
Sources:
USGS National Elevation Dataset, 2002



FIGURE 4-7



Central Management Area

LandIQ Active Agriculture (2016)

- Citrus/Subtropical
- Deciduous Fruits and Nuts
- Field Crops
- Grain and Hay
- Pasture
- Truck Crops
- Vineyard



ACTIVE AGRICULTURAL AREA 2016 CENTRAL MANAGEMENT AREA

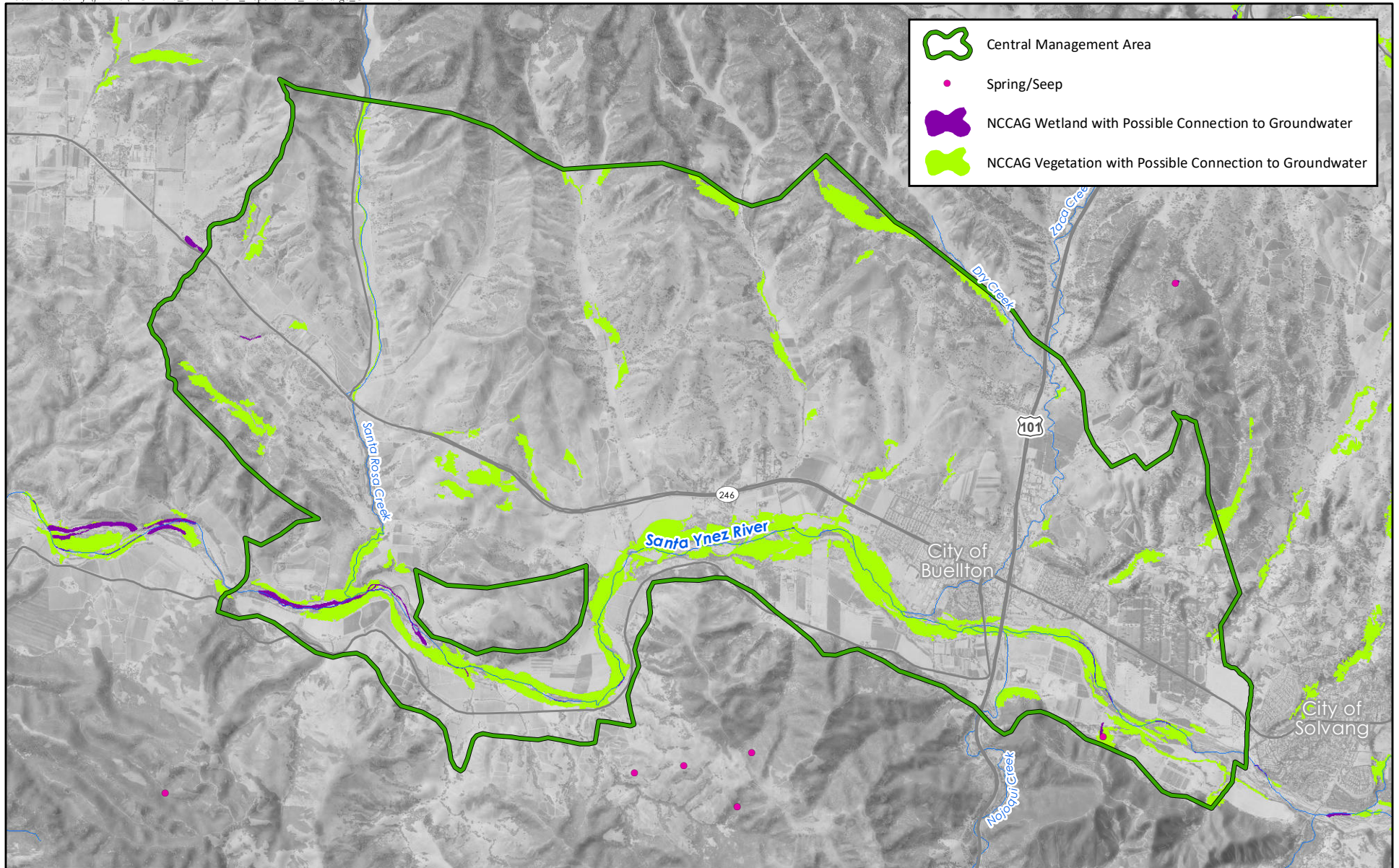


DRAFT



Source:
California Department of Water Resources, LandIQ 2016

FIGURE 5-1

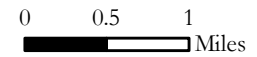


- Central Management Area
- Spring/Seep
- NCCAG Wetland with Possible Connection to Groundwater
- NCCAG Vegetation with Possible Connection to Groundwater



POTENTIAL GROUNDWATER DEPENDENT ECOSYSTEMS AND GROUNDWATER DISCHARGE AREAS CENTRAL MANAGEMENT AREA

DRAFT



Source:

The Natural Communities Commonly Associated with Groundwater (NCCAG) Wetland dataset.



FIGURE 5-2