

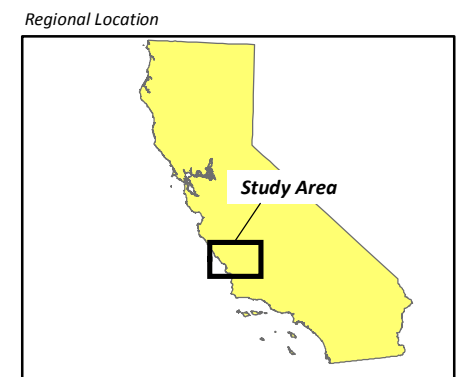
**FIGURES**



**PROJECT LOCATION**

**EXPLANATION**

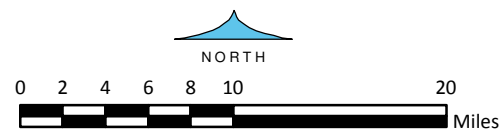
-  Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
-  Paso Robles Area Watershed Model Boundary
-  Paso Robles Area Watershed Boundary
-  California Aqueduct
-  Coastal Branch of the State Water Project Pipeline
-  Nacimiento Water Project Pipeline
-  County Boundary



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Prepared by: DB. Map Projection: State Plane 1983, Zone V.

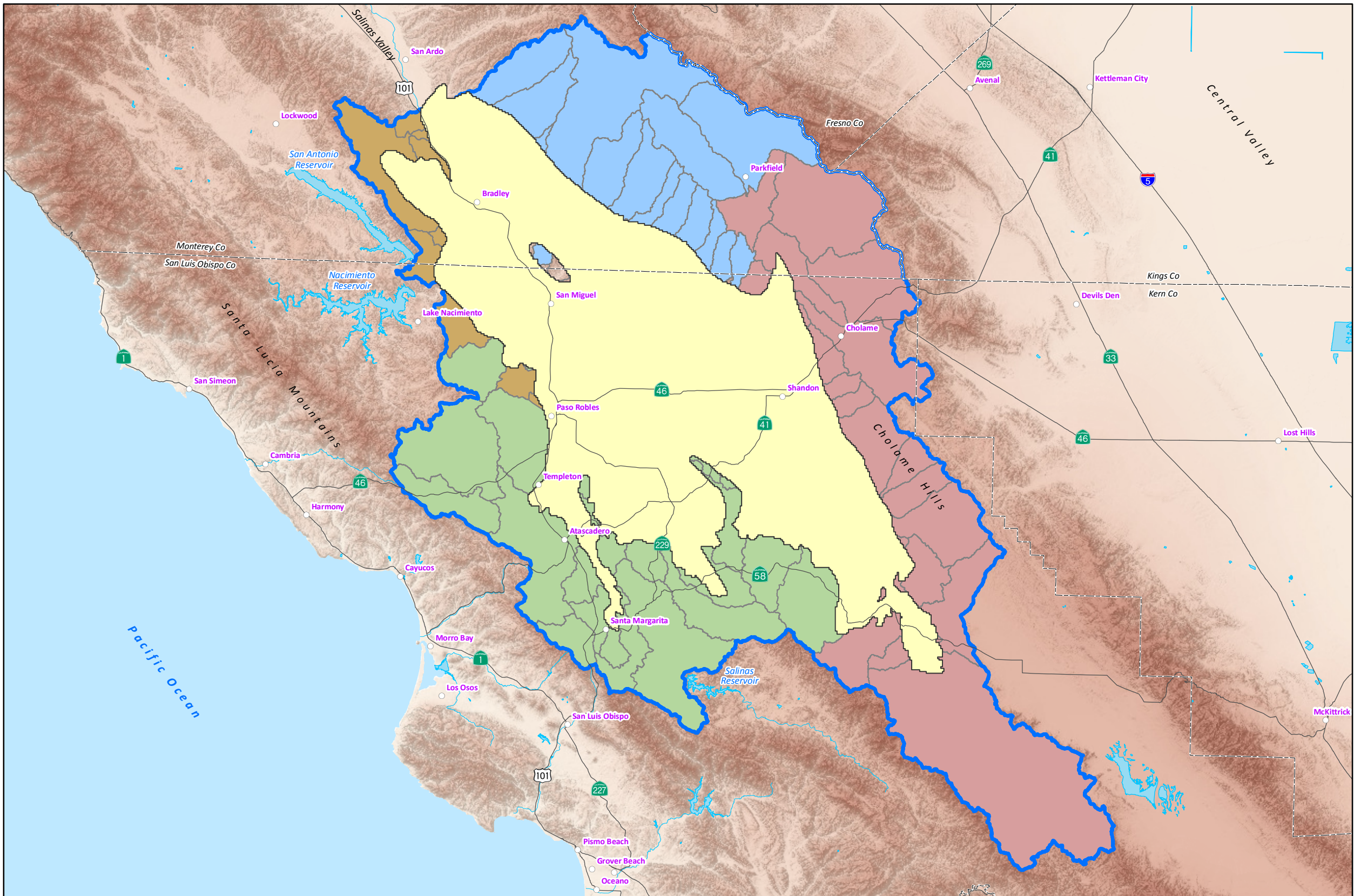
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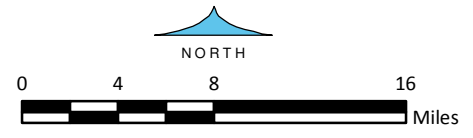
**Figure 1**



**SUB-WATERSHEDS AND PRECIPITATION ZONES**

**EXPLANATION**

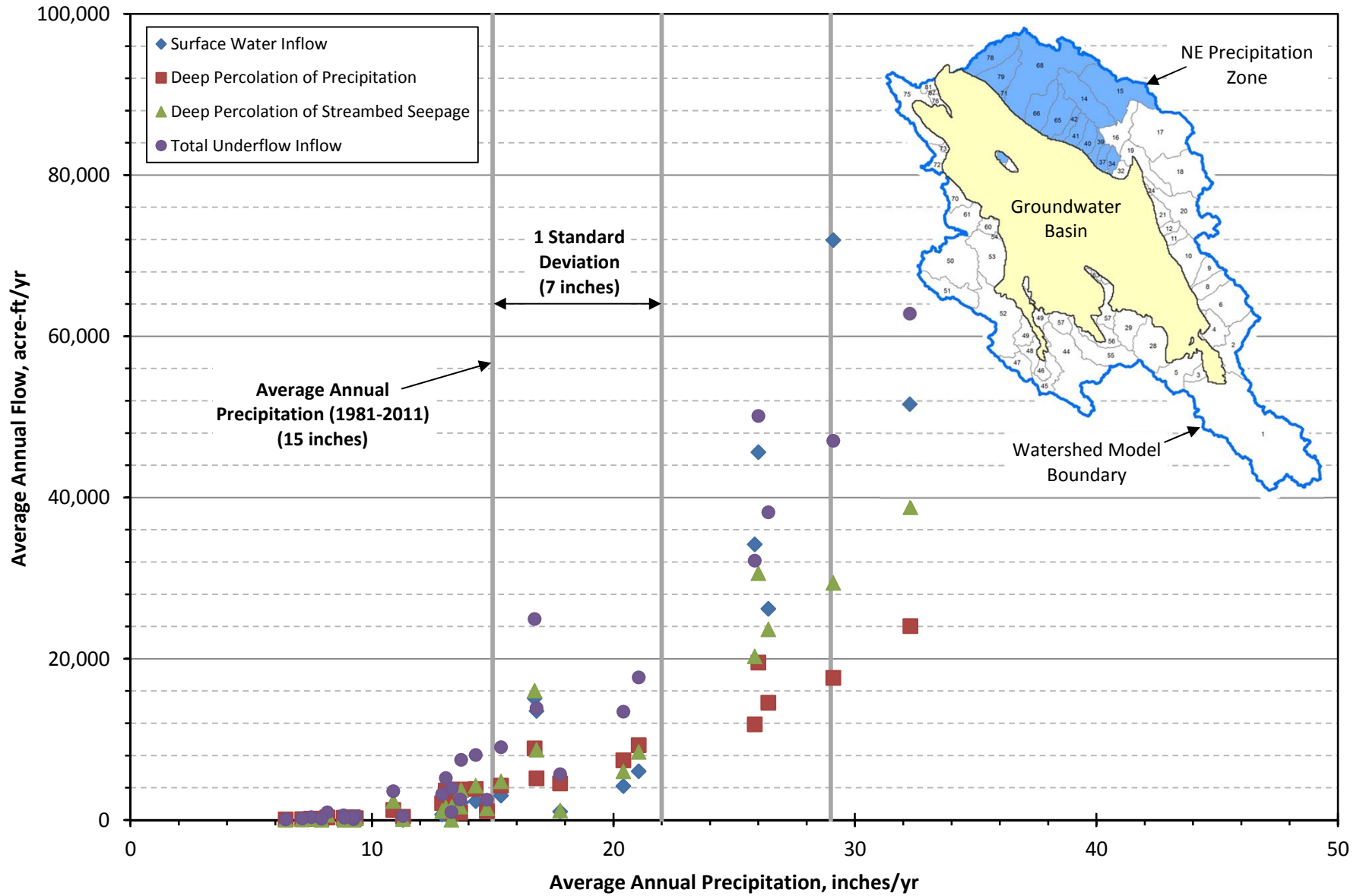
- Precipitation Zone
- Northeast
  - Northwest
  - Southeast
  - Southwest
- Paso Robles Area Watershed Boundary  
 Paso Robles Basin Sub-Watershed Boundary  
 Paso Robles Groundwater Basin Model Active Area  
 County Boundary



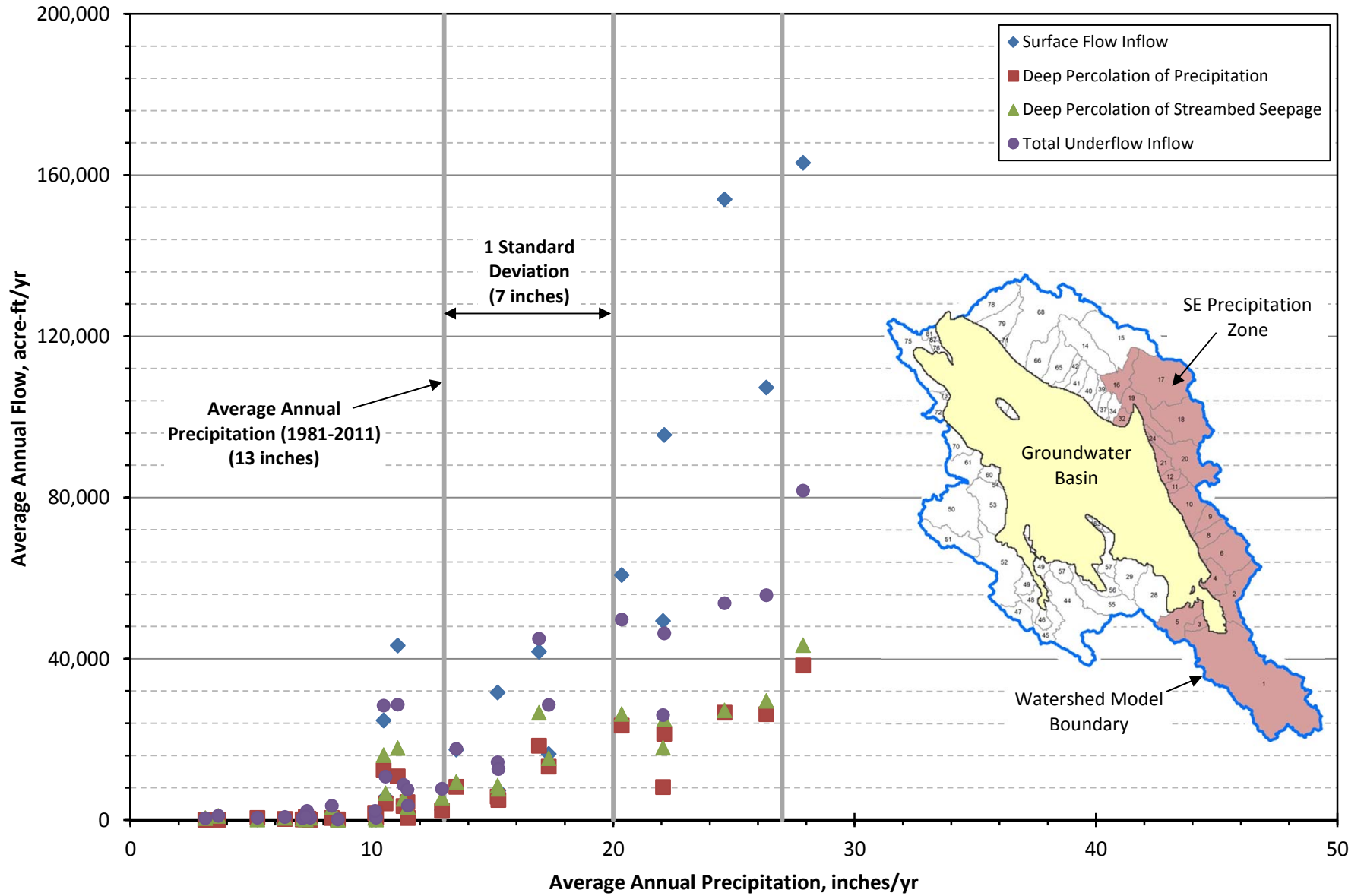
**Figure 2**

W:\GIS\_proj\co\_slo\_paso\_robles\_model\34\_Fig\_2\_subwatersheds\_precipzones\_12-16.mxd

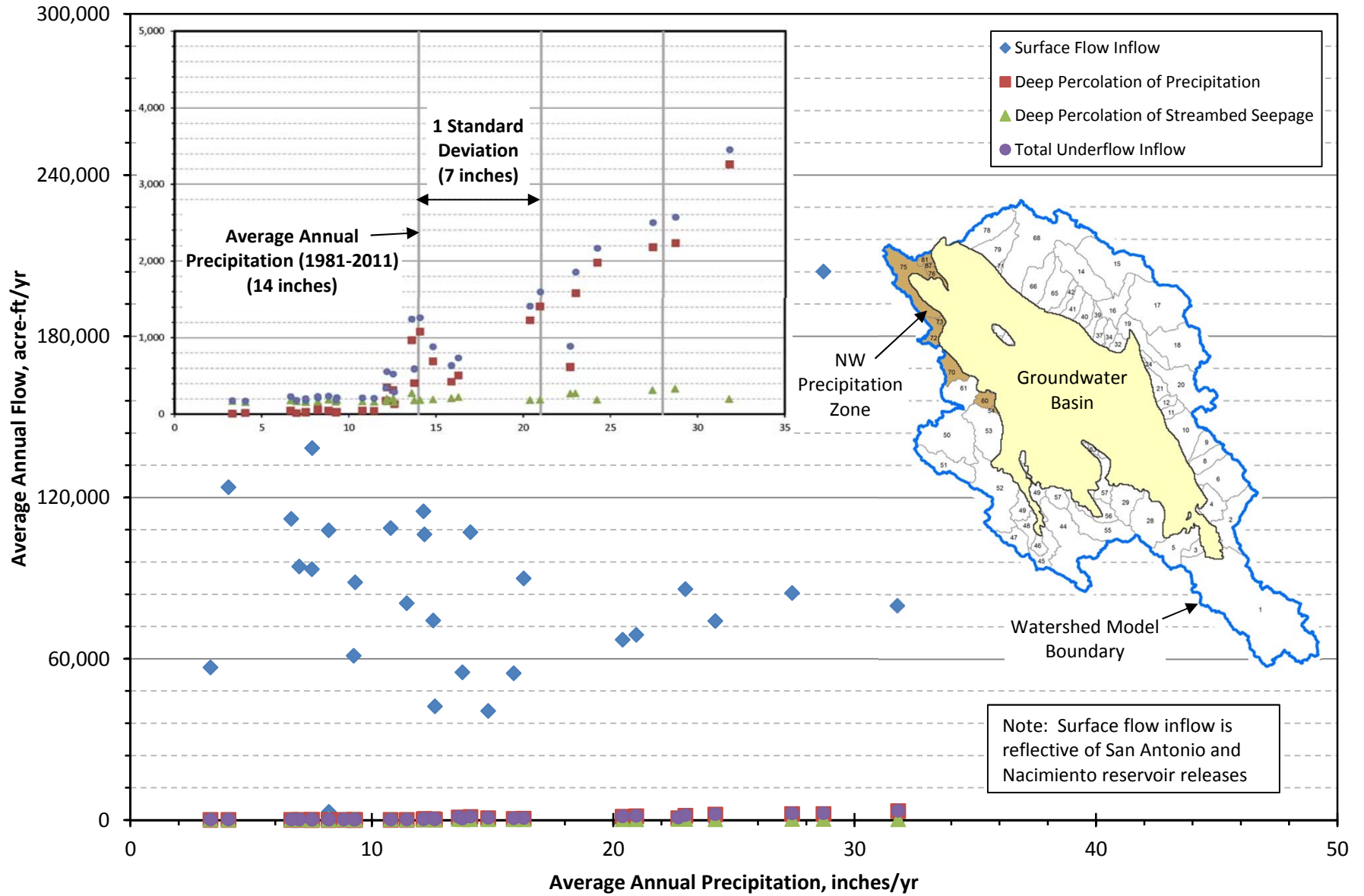
**Comparison of Precipitation Rate to Surface Flow Runoff and Deep Percolation  
 Sub-Watersheds Outside of Groundwater Basin - Northeast Zone**



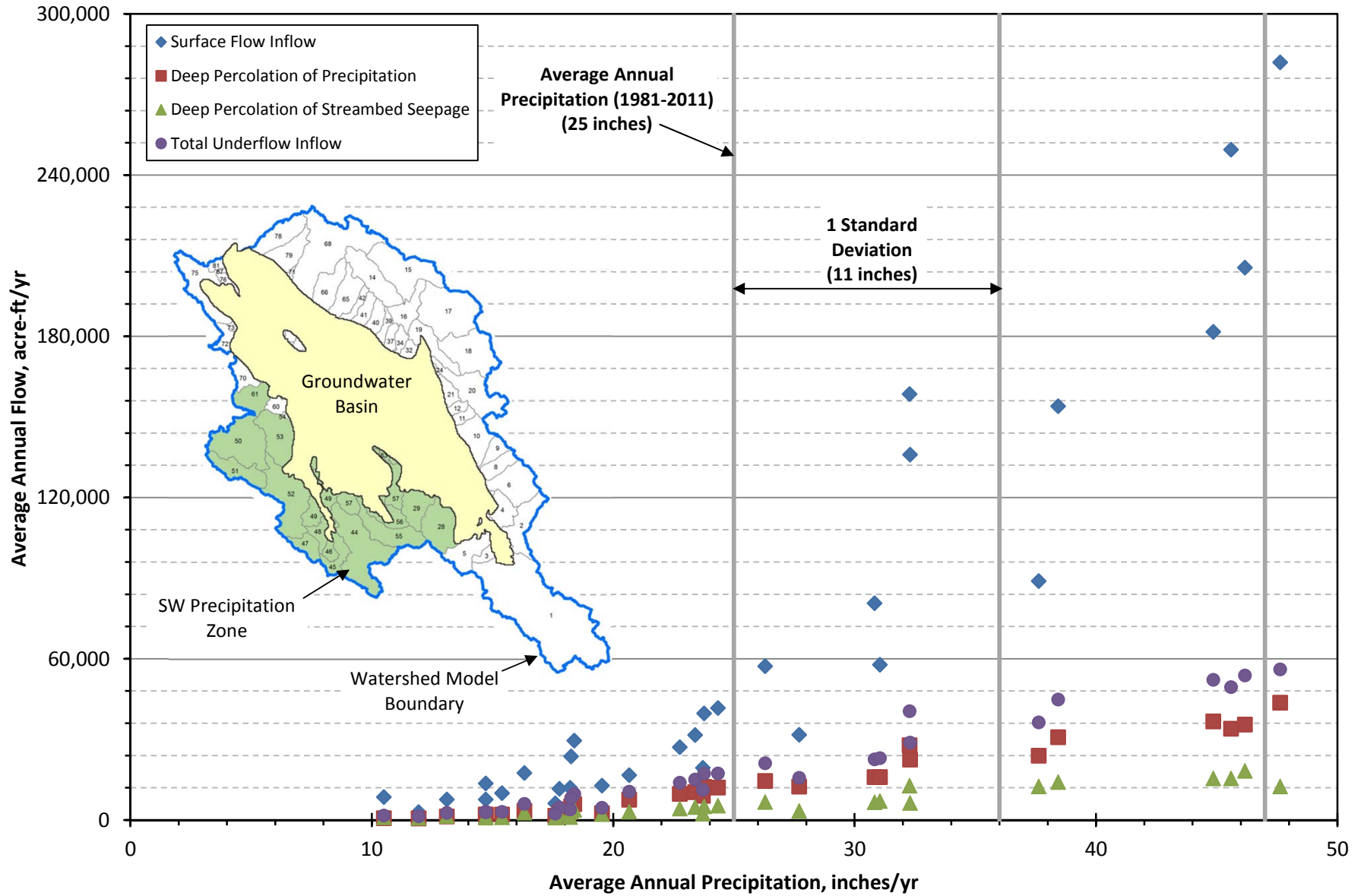
Comparison of Precipitation Rate to Surface Flow Runoff and Deep Percolation  
 Sub-Watersheds Outside of Groundwater Basin - Southeast Zone



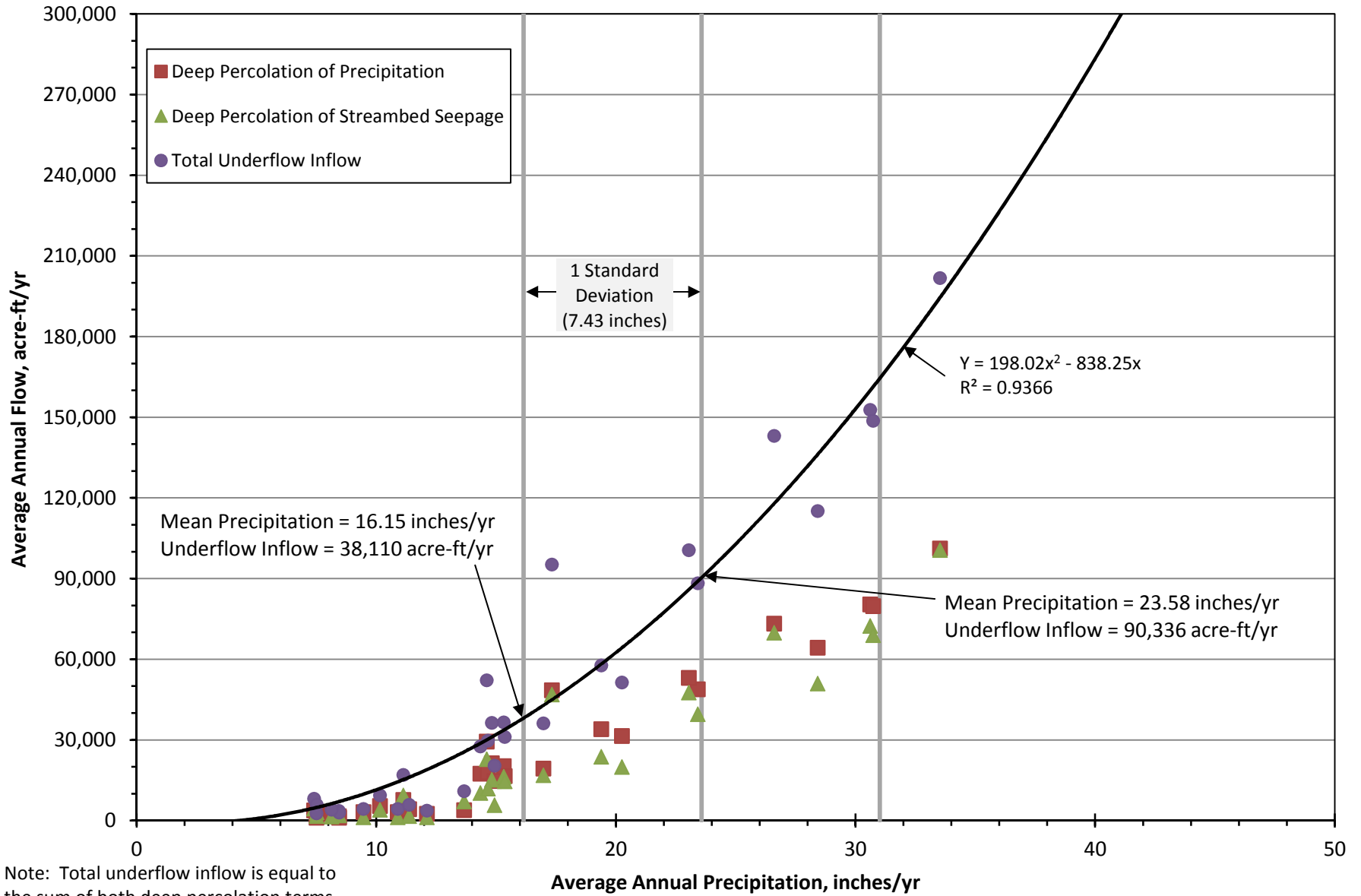
Comparison of Precipitation Rate to Surface Flow Runoff and Deep Percolation  
 Sub-Watersheds Outside of Groundwater Basin - Northwest Zone



Comparison of Precipitation Rate to Surface Flow Runoff and Deep Percolation  
 Sub-Watersheds Outside of Groundwater Basin - Southwest Zone



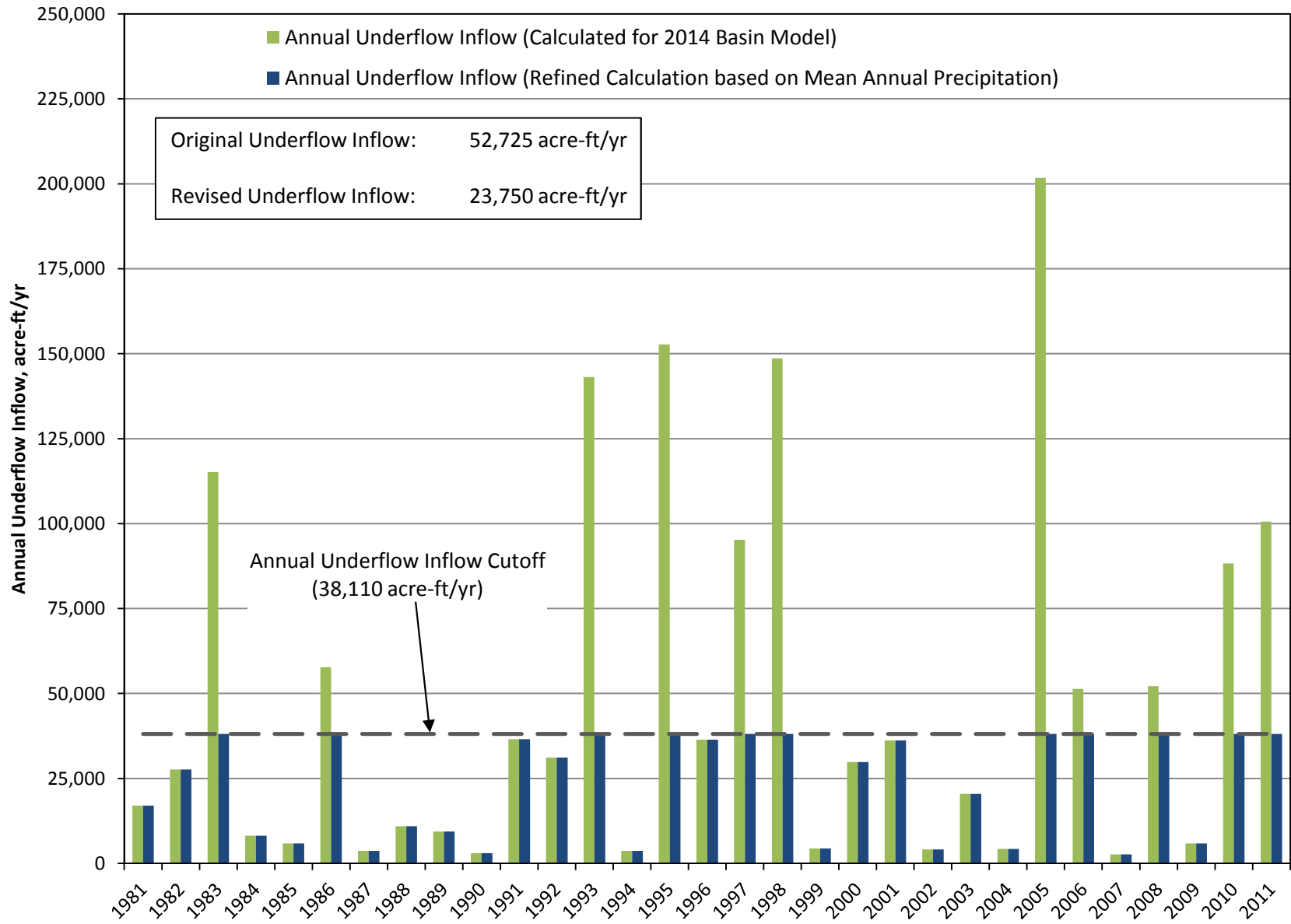
Comparison of Precipitation Rate to Total Underflow Inflow  
 Sub-Watersheds Outside of Groundwater Basin

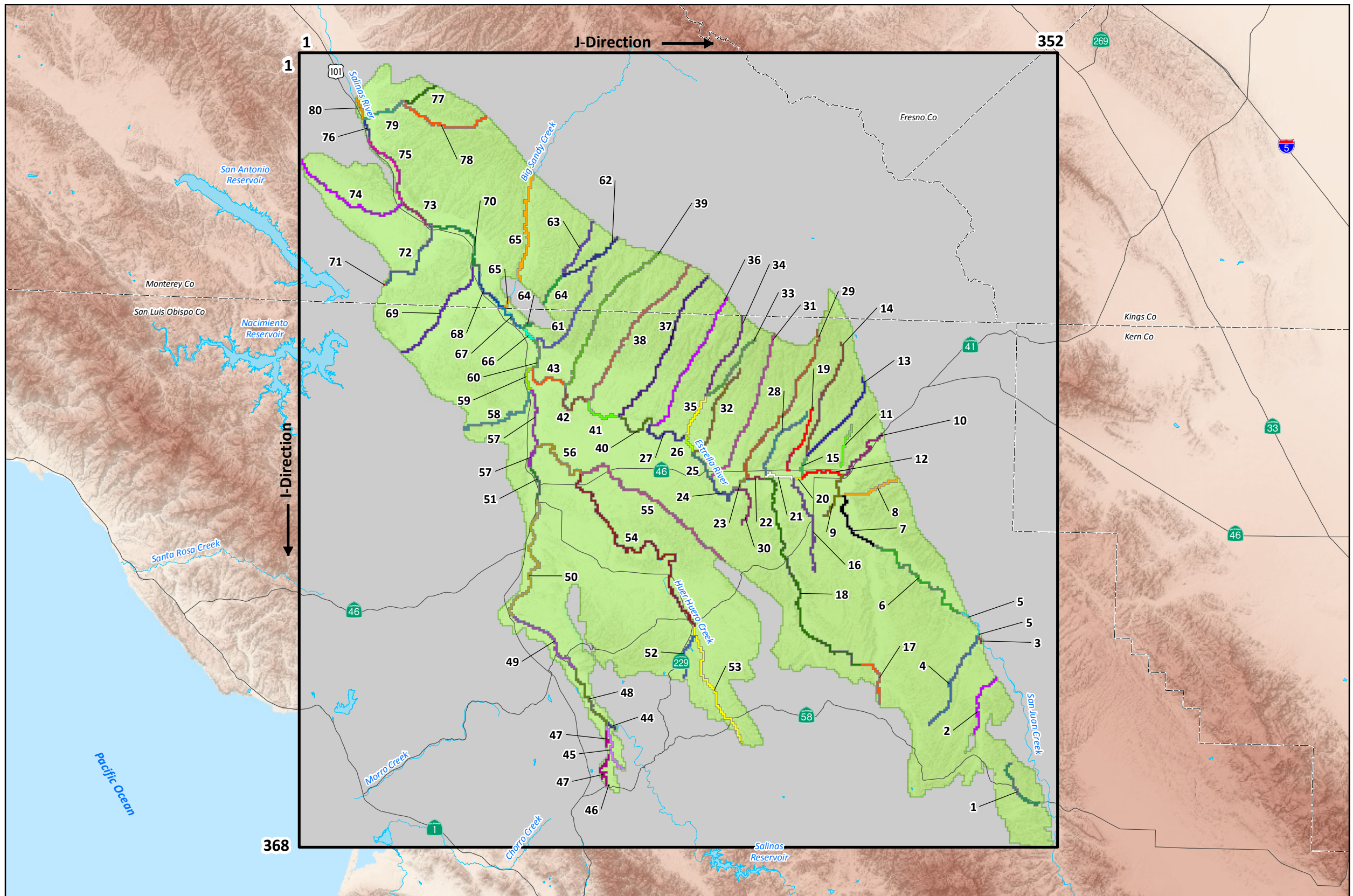


Note: Total underflow inflow is equal to the sum of both deep percolation terms.








**Comparison of Underflow Inflow Using  
 Mean Annual Precipitation as Cutoff Line (1981-2011)**





**LOCATION OF MODEL STREAM NETWORK**

**EXPLANATION**

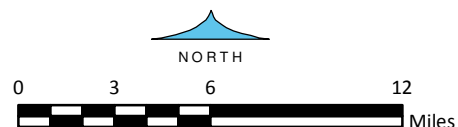
-  Model Streambed Segment Locations
-  Paso Robles Groundwater Basin Model Domain
-  Paso Robles Groundwater Basin Model Active Area
-  Paso Robles Groundwater Basin Model Inactive Area
-  County Boundary

(Source: Fugro, ETIC Engineers and Cleath, 2005)

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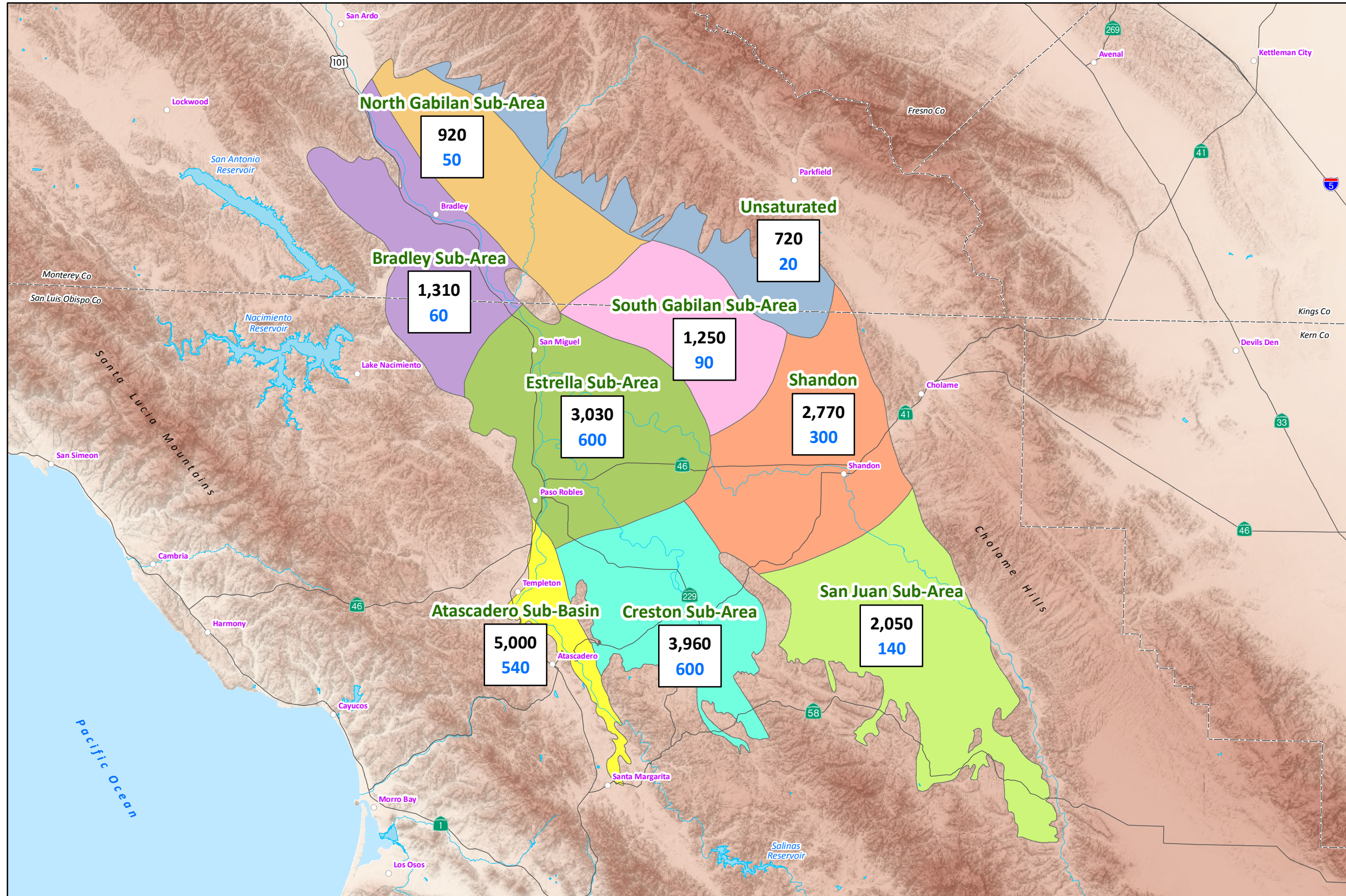
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**Figure 9**



**DEEP PERCOLATION FROM  
PRECIPITATION AND  
RETURN FLOW FROM  
APPLIED IRRIGATION WATER  
BY BASIN SUB-AREA  
ANNUAL AVERAGE OF  
WATER YEARS 1981-2011**

**EXPLANATION**

- Estrella** — Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- 3,030** — Deep Percolation from Precipitation
- 600** — Return Flow from Applied Irrigation Water

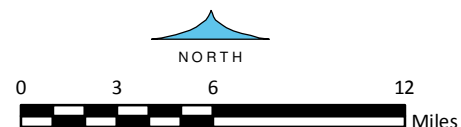
Units are in acre-ft/yr

----- County Boundary

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Prepared by: DB. Map Projection: State Plane 1983, Zone V.

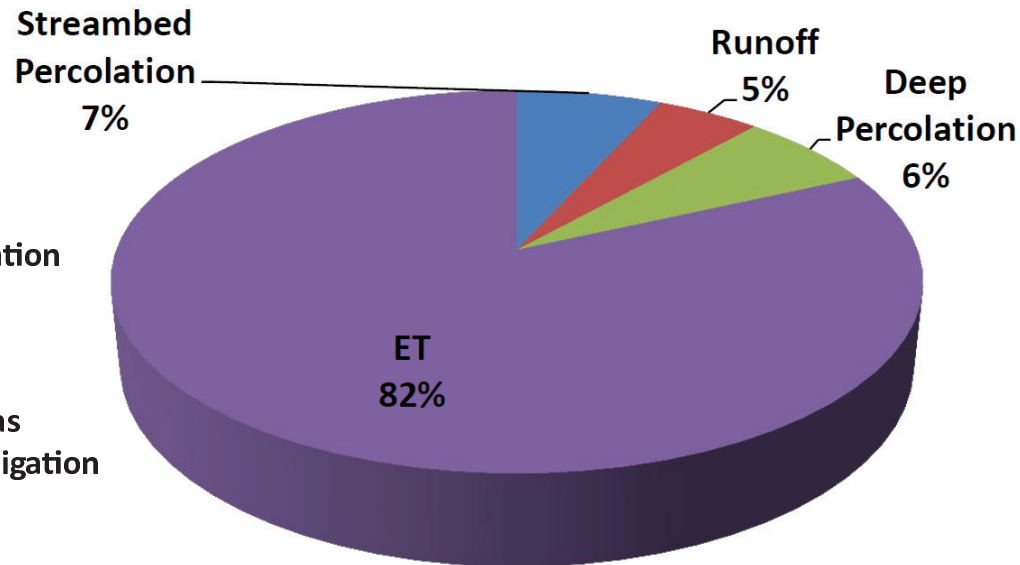
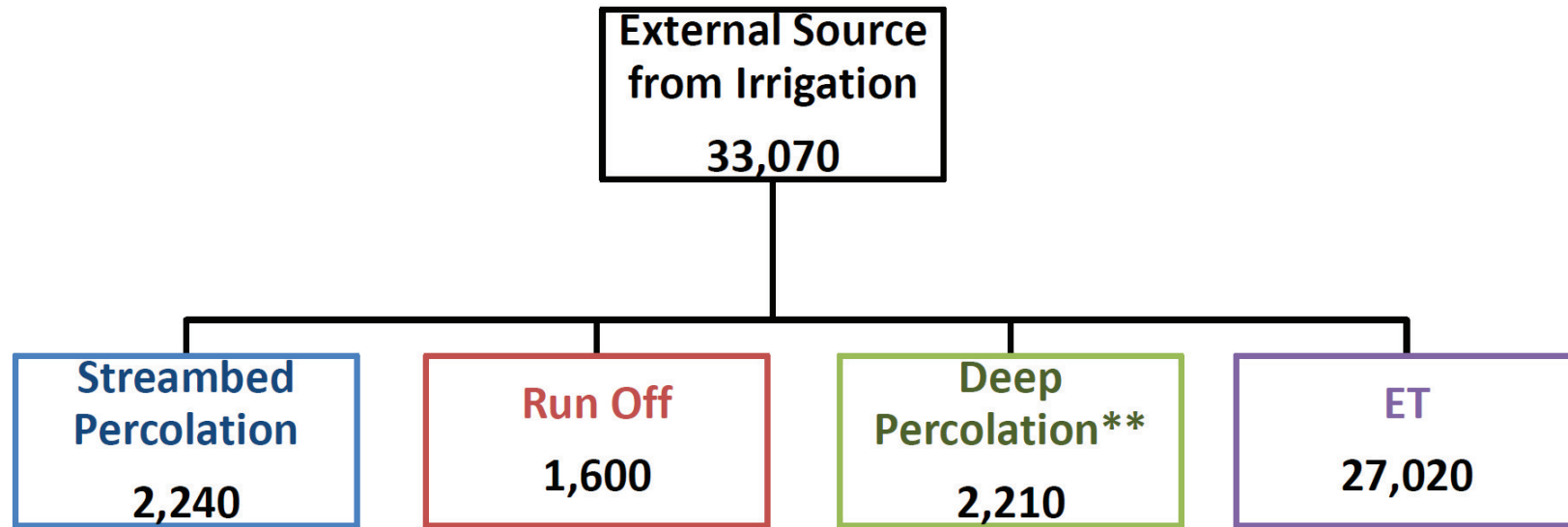
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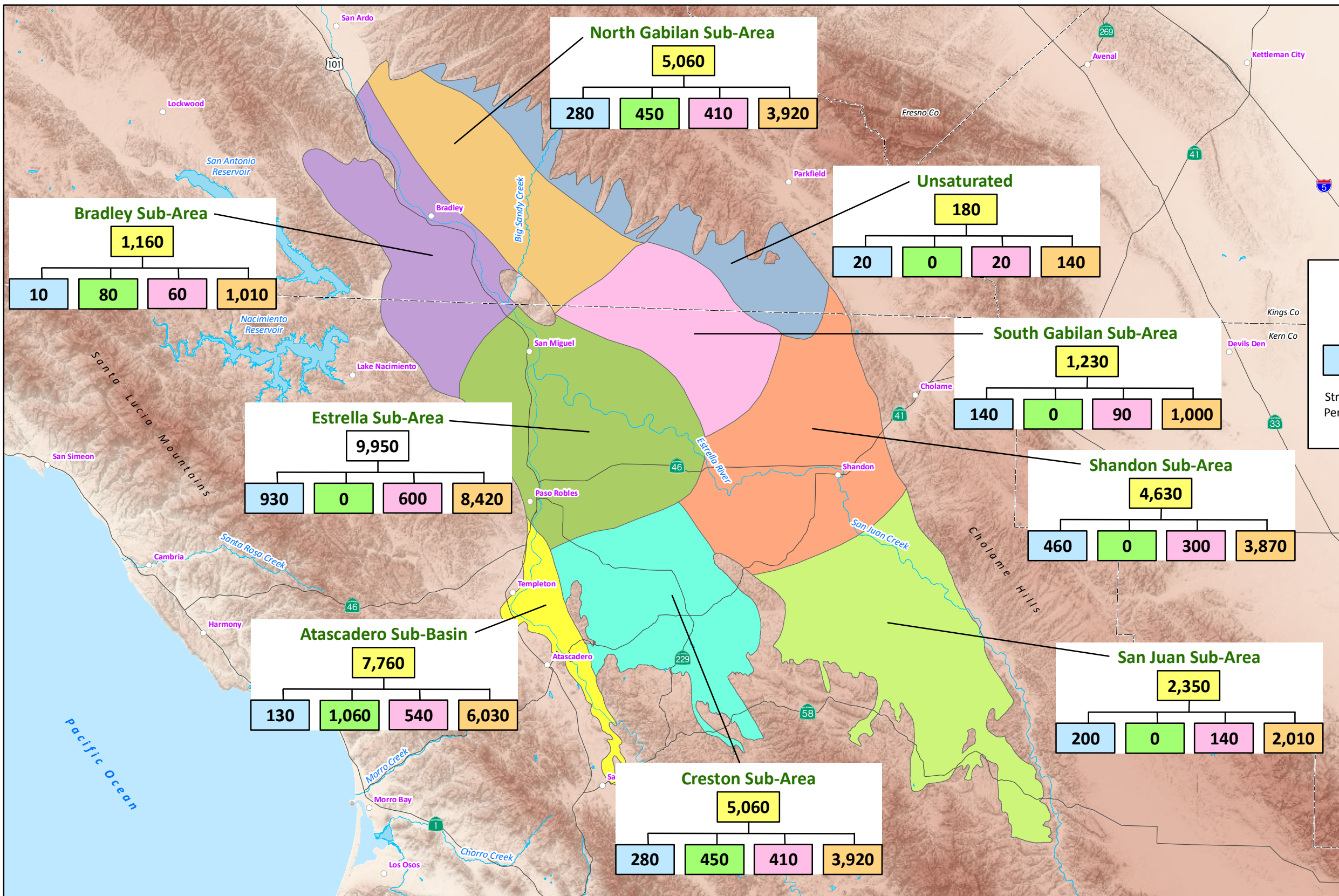
**Figure 10**



\*External source from irrigation is applied water less consumptive uses by crops.  
\*\*Deep percolation shown on this chart is considered as return flow from applied irrigation water.

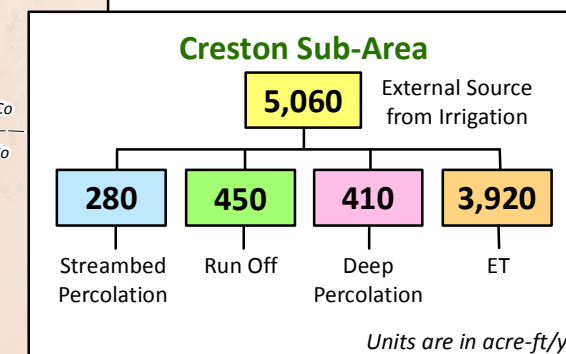
Units in Acre-Feet per Year

**BREAKDOWN OF EXTERNAL SOURCE FROM IRRIGATION\*  
ANNUAL AVERAGE OF WATER YEARS 1981 - 2011**



**BREAKDOWN OF EXTERNAL SOURCE FROM IRRIGATION BY BASIN SUB-AREA - ANNUAL AVERAGE OF WATER YEARS 1981-2011**

EXPLANATION

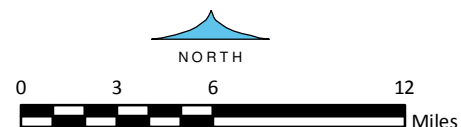


--- County Boundary

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Prepared by: DB. Map Projection: State Plane 1983, Zone V.

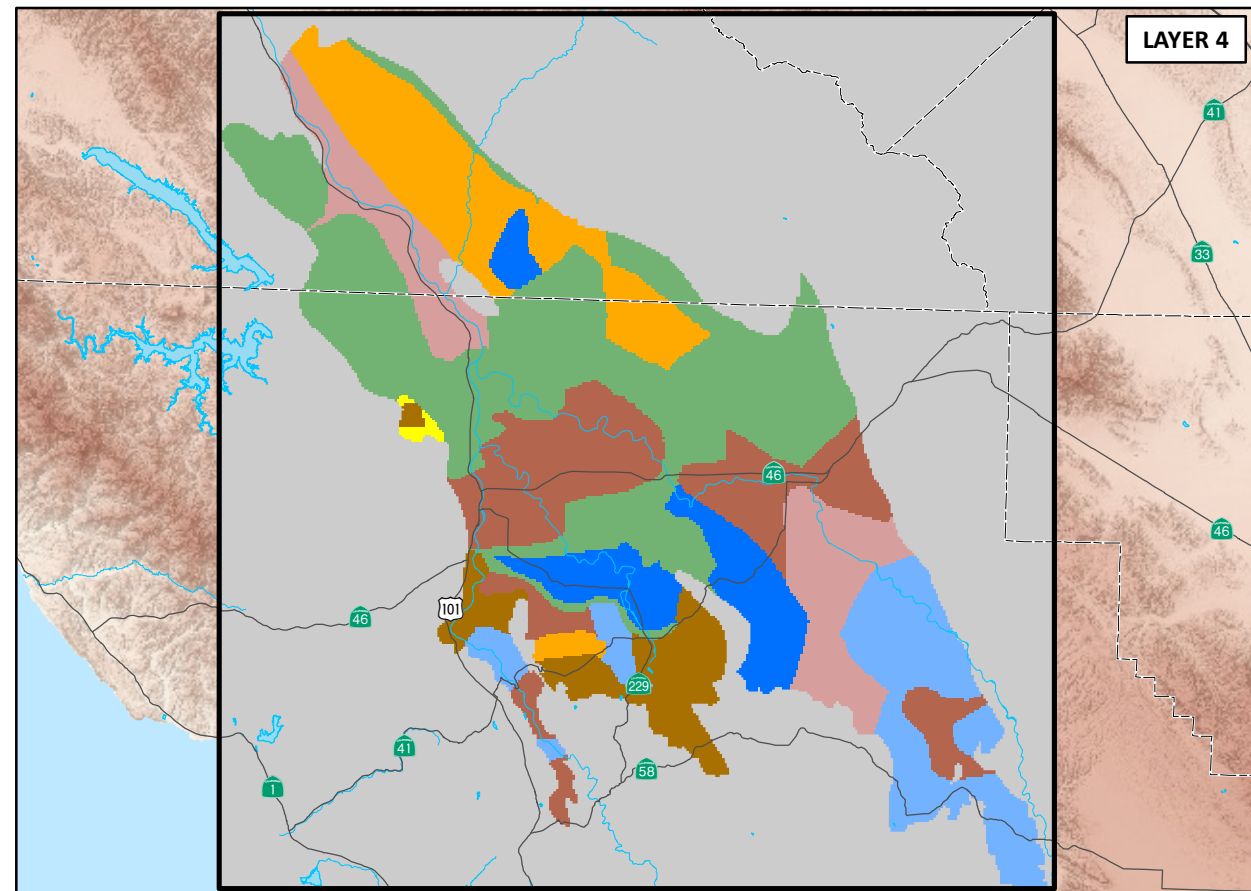
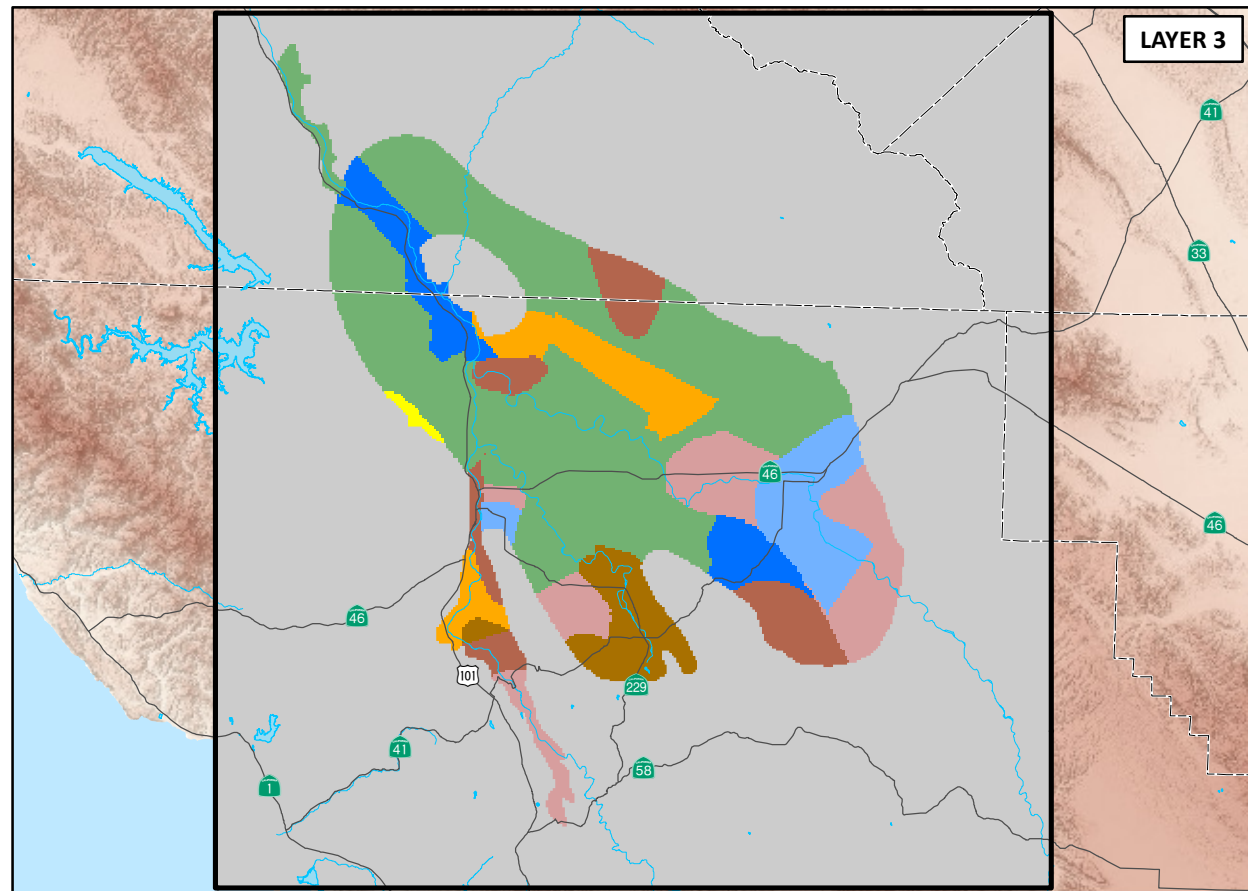
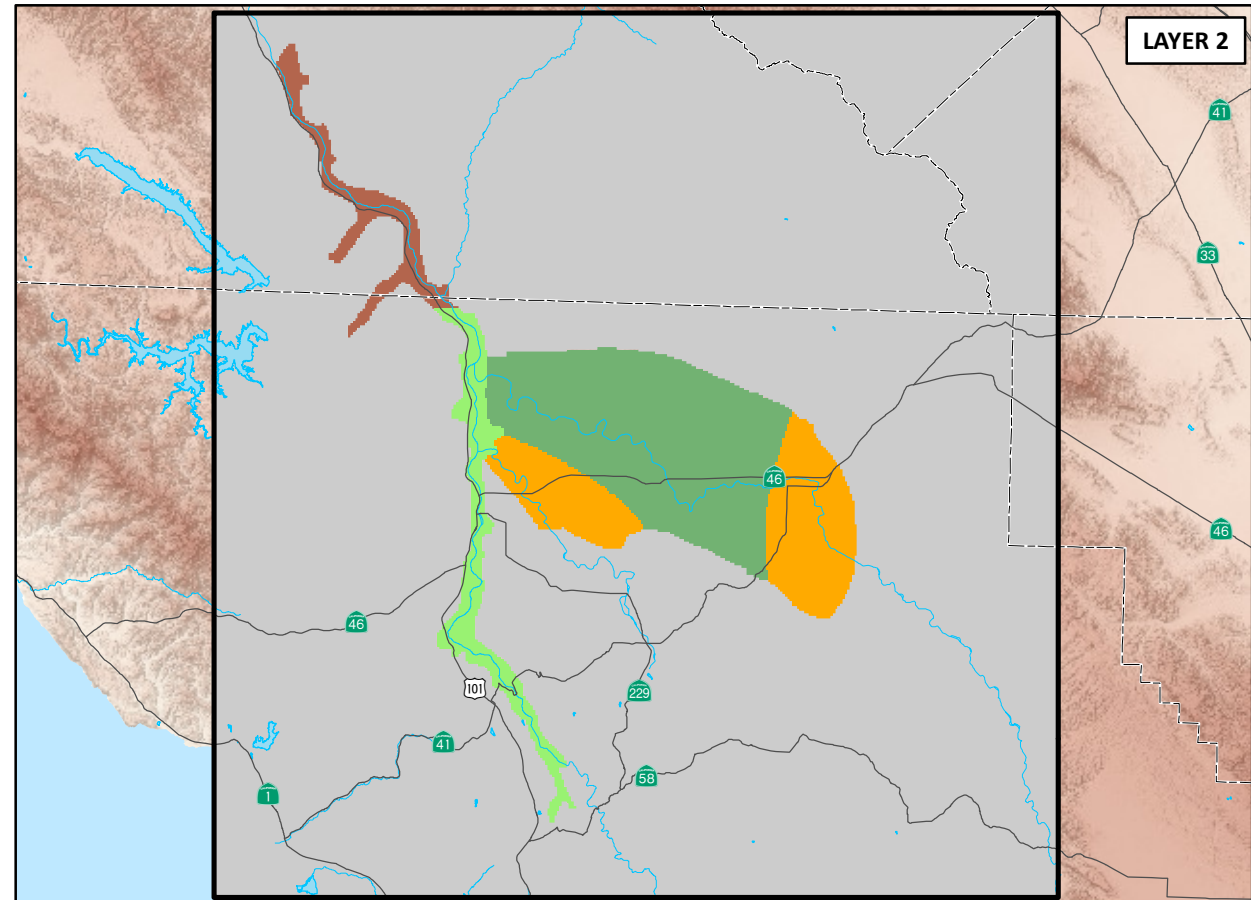
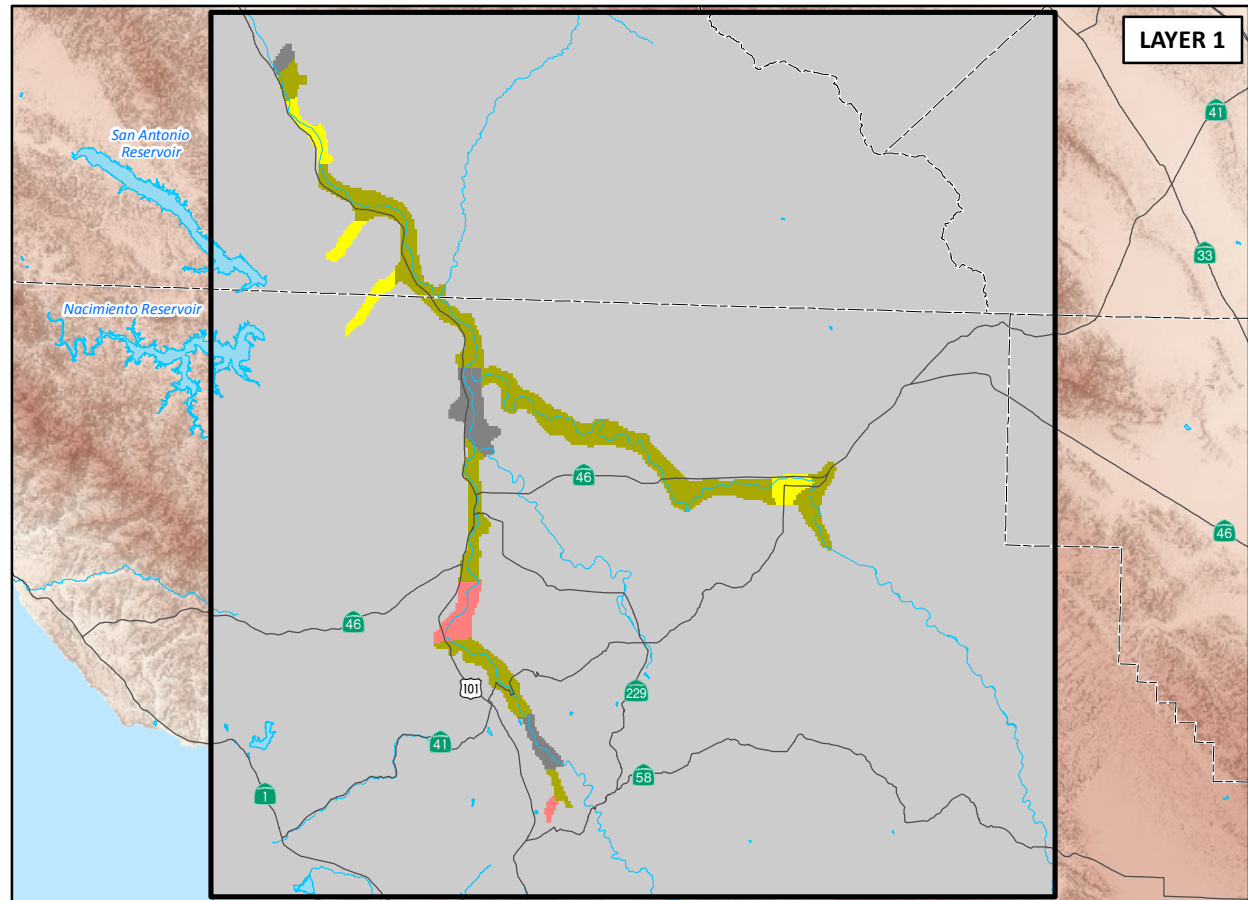
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**Figure 12**



**HORIZONTAL HYDRAULIC CONDUCTIVITY USED FOR BASIN MODEL RECALIBRATION LAYERS 1 THROUGH 4**

**EXPLANATION**

Horizontal Hydraulic Conductivity (ft/day)

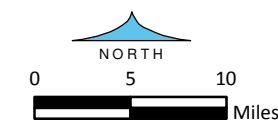
	<0.25		5 - 10
	0.25 - 0.5		10 - 20
	0.5 - 0.75		20 - 50
	0.75 - 1		50 - 100
	1 - 2		100 - 200
	2 - 5		200 - 300

Paso Robles Groundwater Basin Model Domain

Paso Robles Groundwater Basin Model Inactive Area

(Source: Fugro, ETIC Engineers and Cleath, 2005)

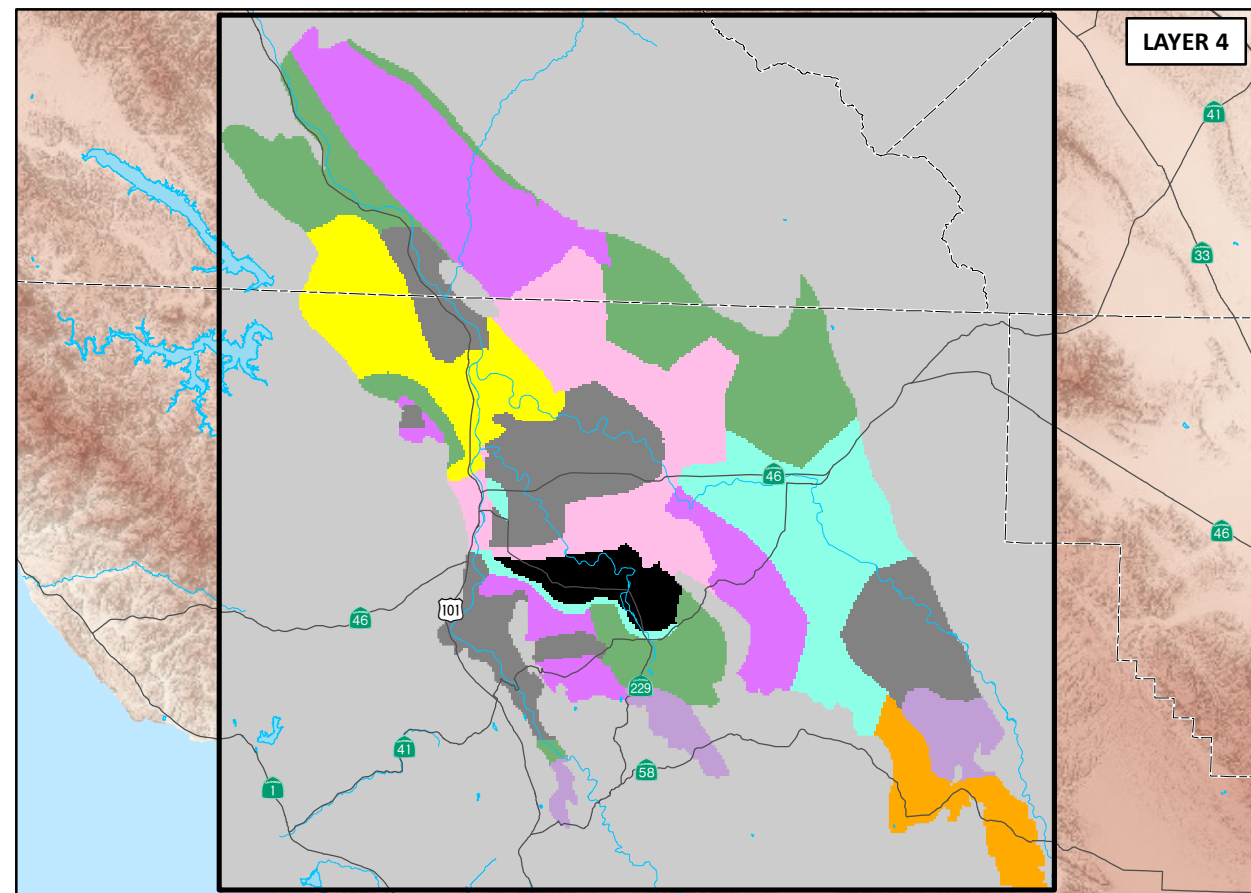
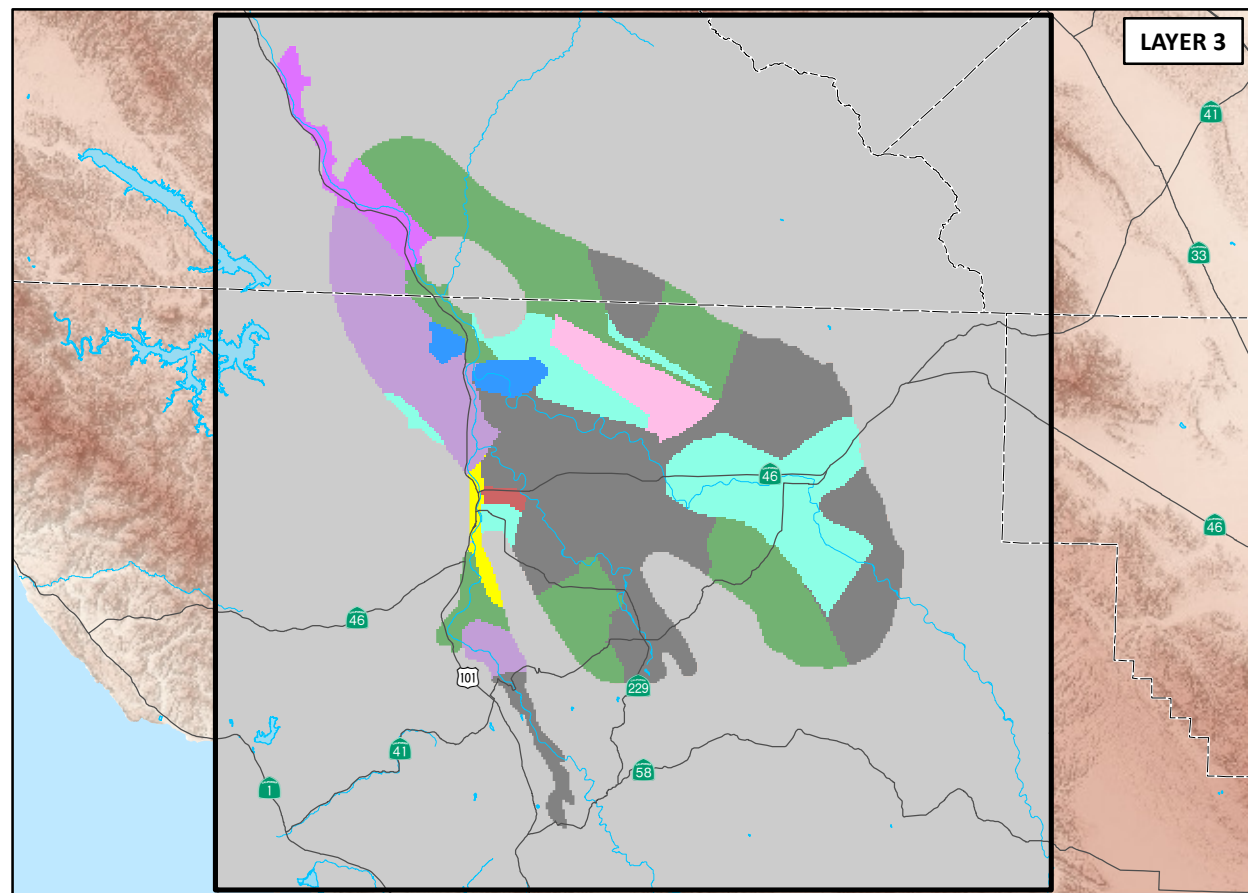
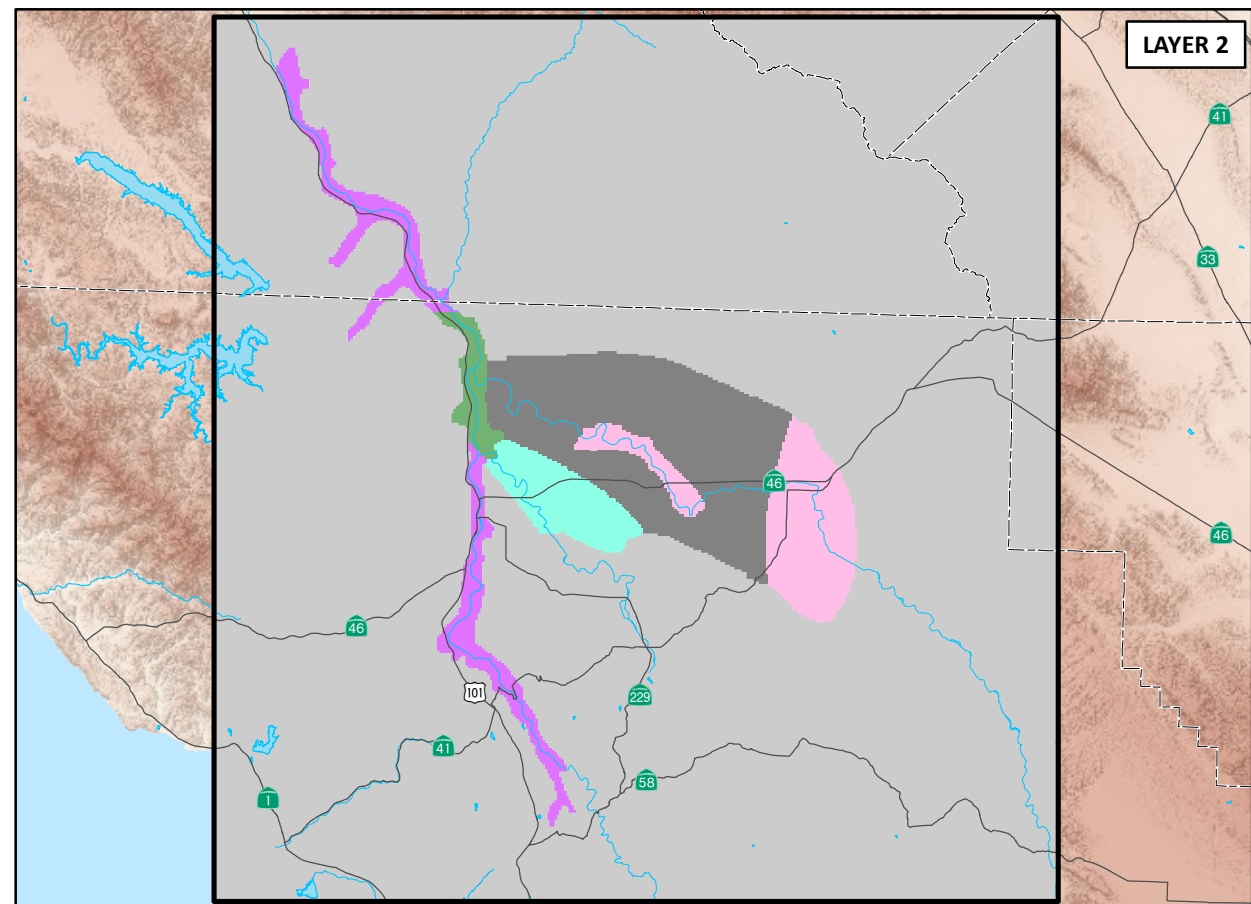
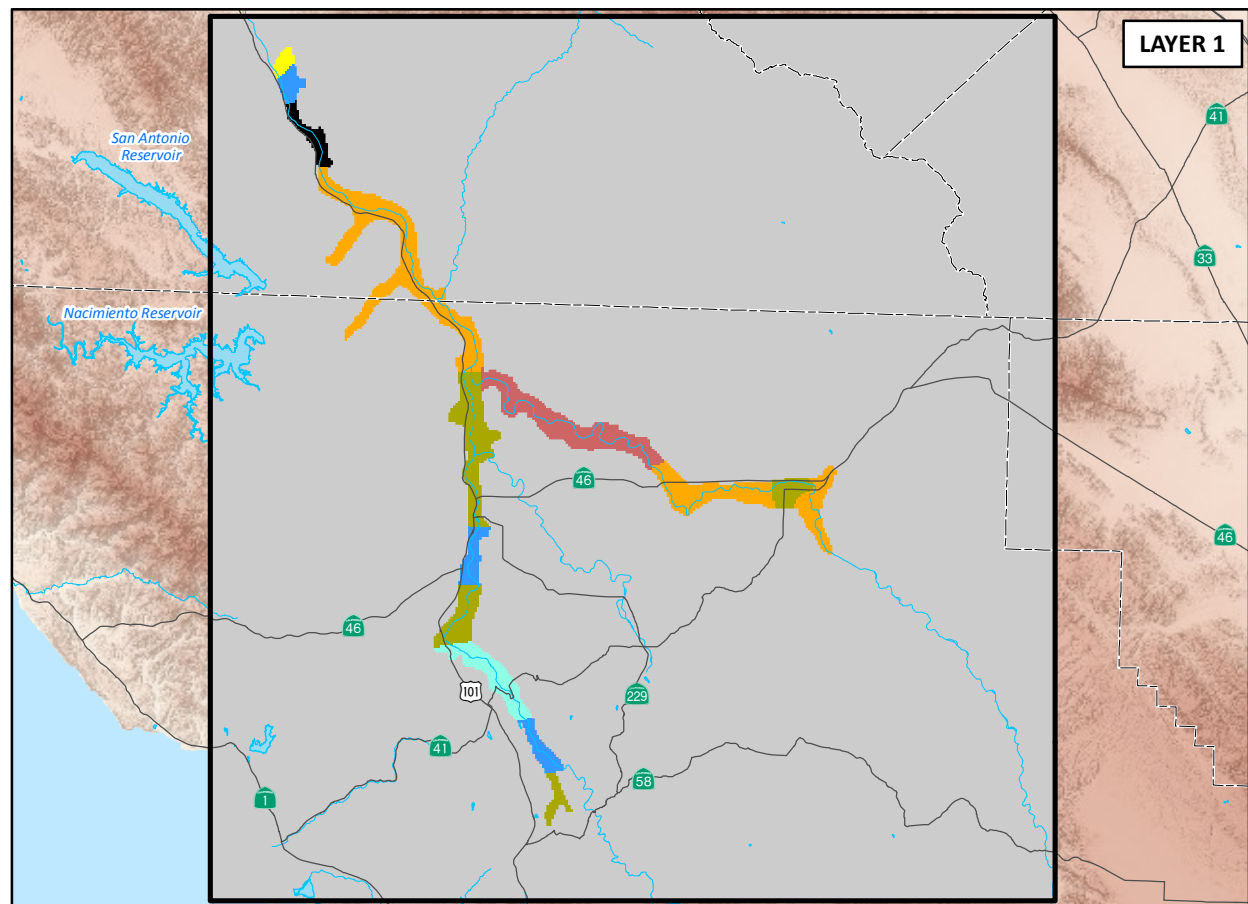
County Boundary



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**Figure 13**



**VERTICAL HYDRAULIC CONDUCTIVITY USED FOR BASIN MODEL RECALIBRATION LAYERS 1 THROUGH 4**

**EXPLANATION**

Vertical Hydraulic Conductivity (ft/day)

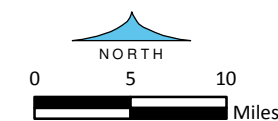
	<0.002		0.2 - 0.3
	0.002 - 0.01		0.3 - 0.4
	0.01 - 0.02		0.4 - 0.5
	0.02 - 0.03		0.5 - 0.6
	0.03 - 0.1		0.6 - 0.8
	0.1 - 0.2		0.8 - 1.0

Paso Robles Groundwater Basin Model Domain

Paso Robles Groundwater Basin Model Inactive Area

(Source: Fugro, ETIC Engineers and Cleath, 2005)

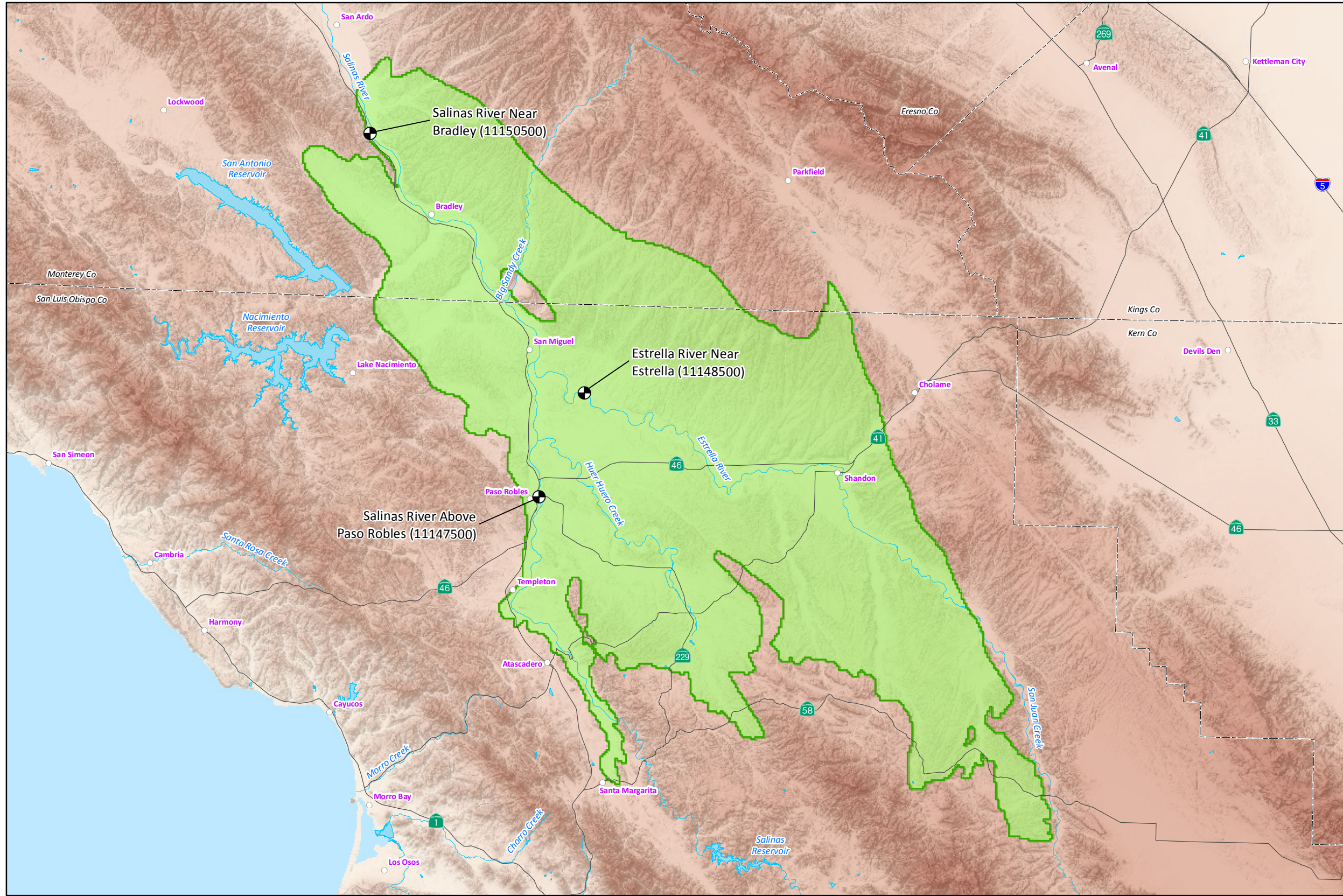
County Boundary



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**Figure 14**



**STREAM GAGING STATIONS USED FOR BASIN MODEL RECALIBRATION**

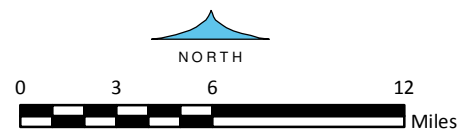
EXPLANATION

-  USGS Gaging Station
-  Paso Robles Groundwater Basin Model Active Area (Source: Fugro, ETIC Engineers and Cleath, 2005)
-  County Boundary

6-Dec-16

Prepared by: DB. Map Projection: State Plane 1983, Zone V.

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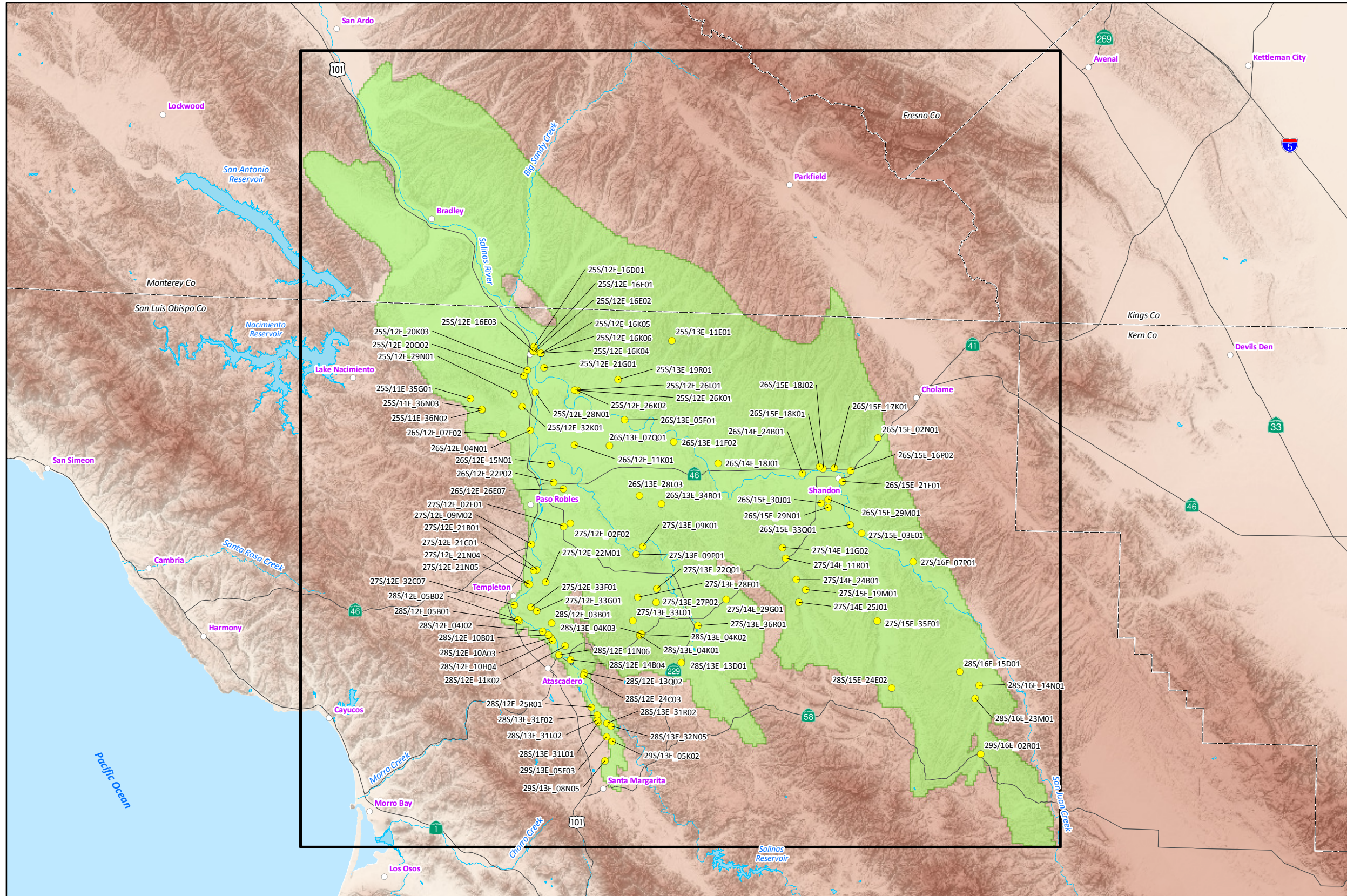


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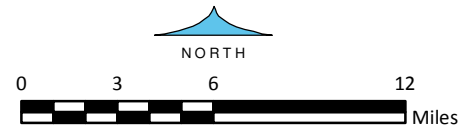
**Figure 15**









**TARGET WELLS USED FOR BASIN MODEL RECALIBRATION**

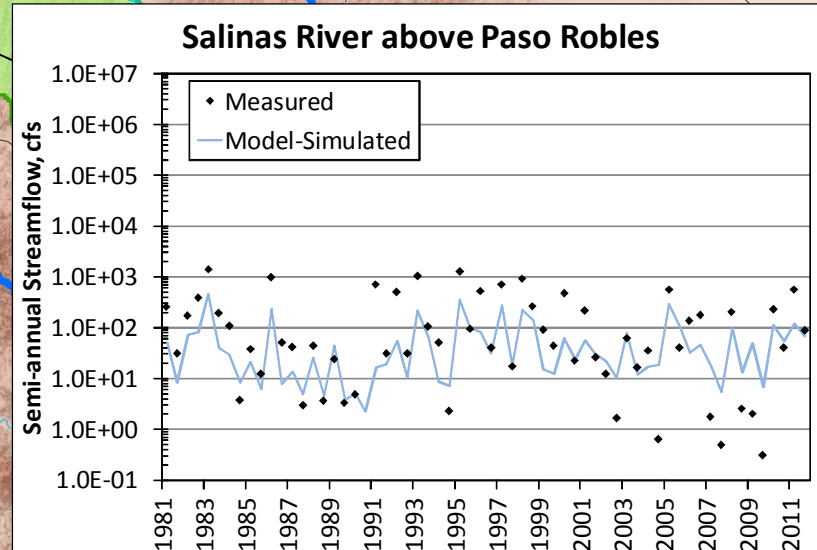
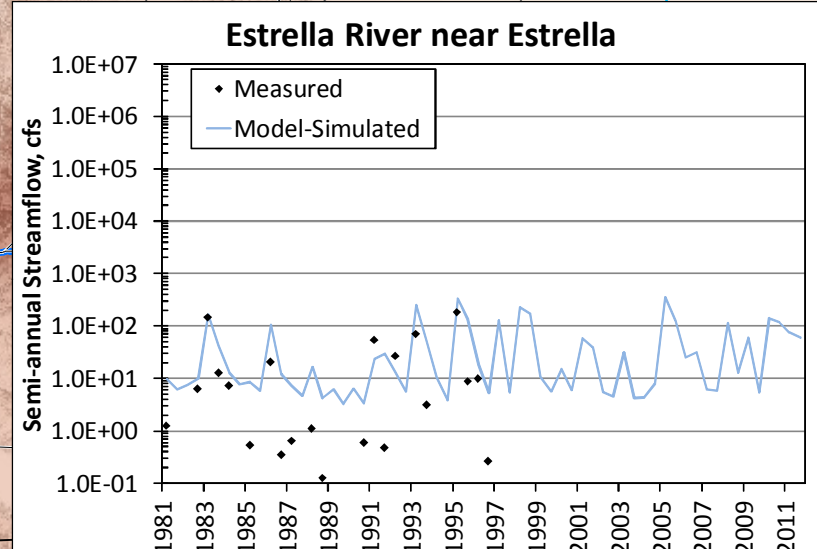
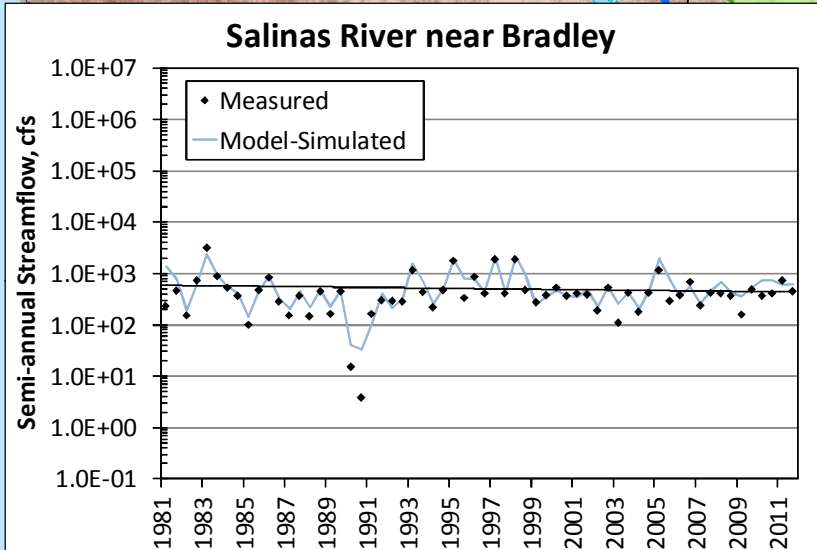
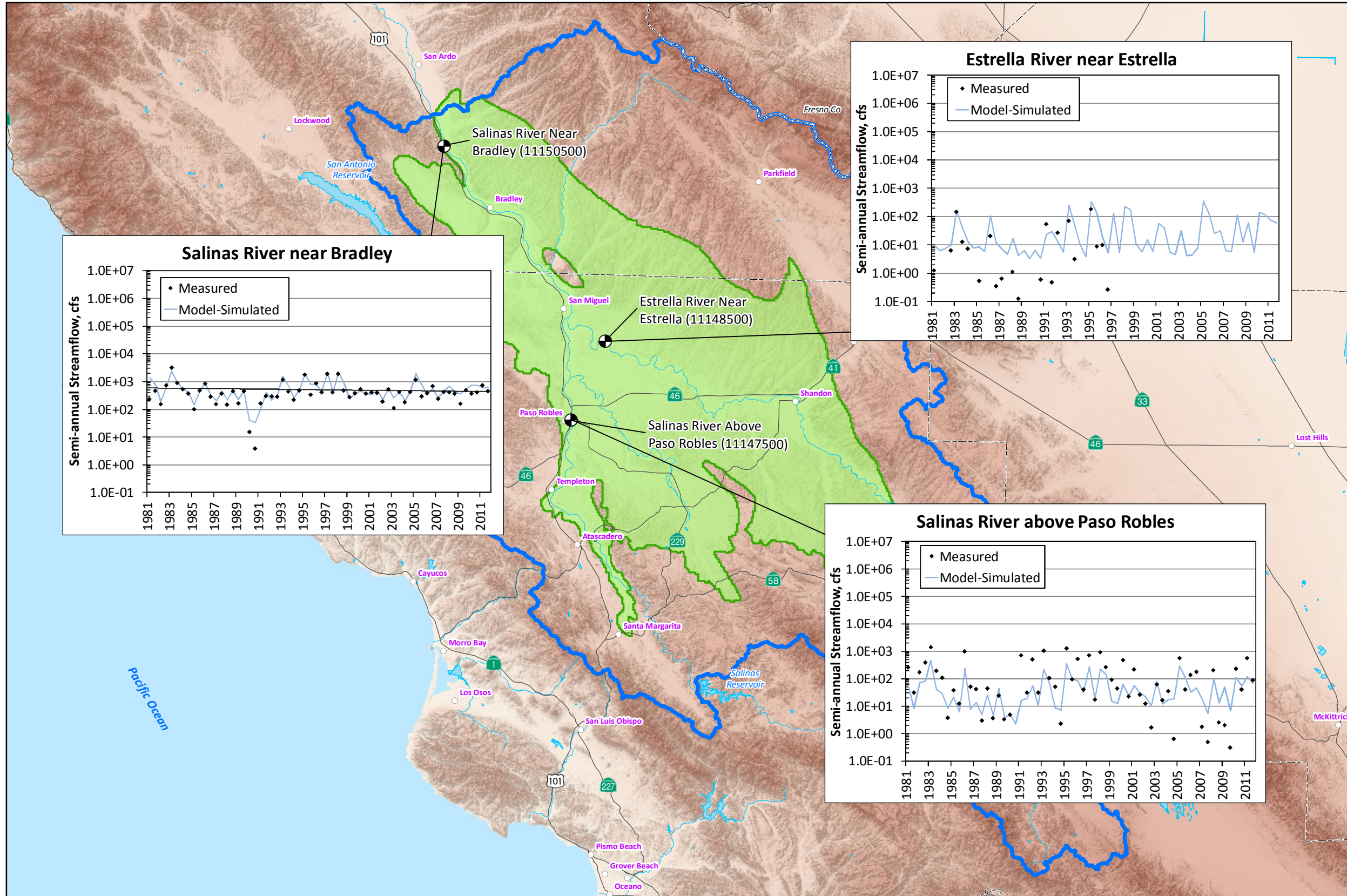
- EXPLANATION**
- Target Well Location
  - Paso Robles Groundwater Basin Model Domain
  - Paso Robles Groundwater Basin Model Active Area
  - County Boundary
- (Source: Fugro, ETIC Engineers and Cleath, 2005)



**HYDROGRAPHS OF MEASURED AND MODEL-SIMULATED SEMI-ANNUAL STREAMFLOW AT RIVER GAGING STATIONS (1981-2011)**

EXPLANATION

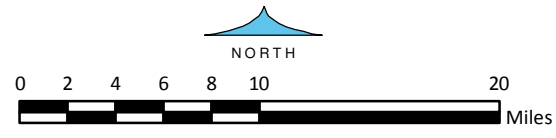
-  USGS Gaging Station
-  Paso Robles Groundwater Basin Model Active Area (Source: Fugro, ETIC Engineers and Cleath, 2005)
-  Paso Robles Area Watershed Boundary
-  County Boundary



6-Dec-16

Prepared by: DB. Map Projection: State Plane 1983, Zone V.

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**Figure 17**

W:\GIS\_proj\co\_slo\_paso\_robles\_model\34\_Fig\_17\_gaging\_stns\_calib\_hydrograph\_12-16.mxd

### Scatterplot of Measured and Model-Simulated Semi-Annual Streamflow at the Salinas River near Bradley Gaging Station No. 11150500 - (1981-2011)

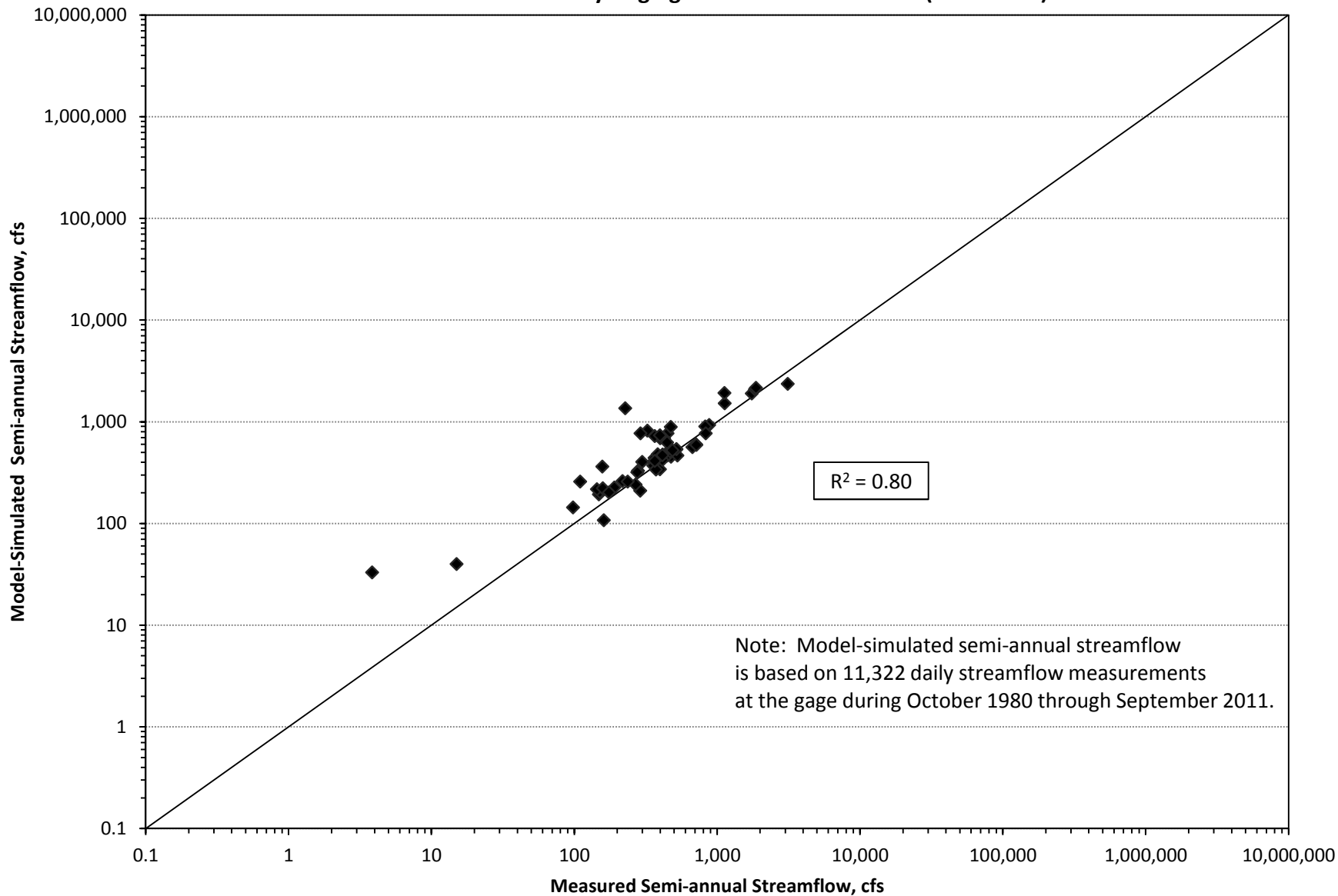


Figure 18

### Scatterplot of Measured and Model-Simulated Semi-Annual Streamflow at the Salinas River above Paso Robles Gaging Station No. 11147500 - (1981-2011)

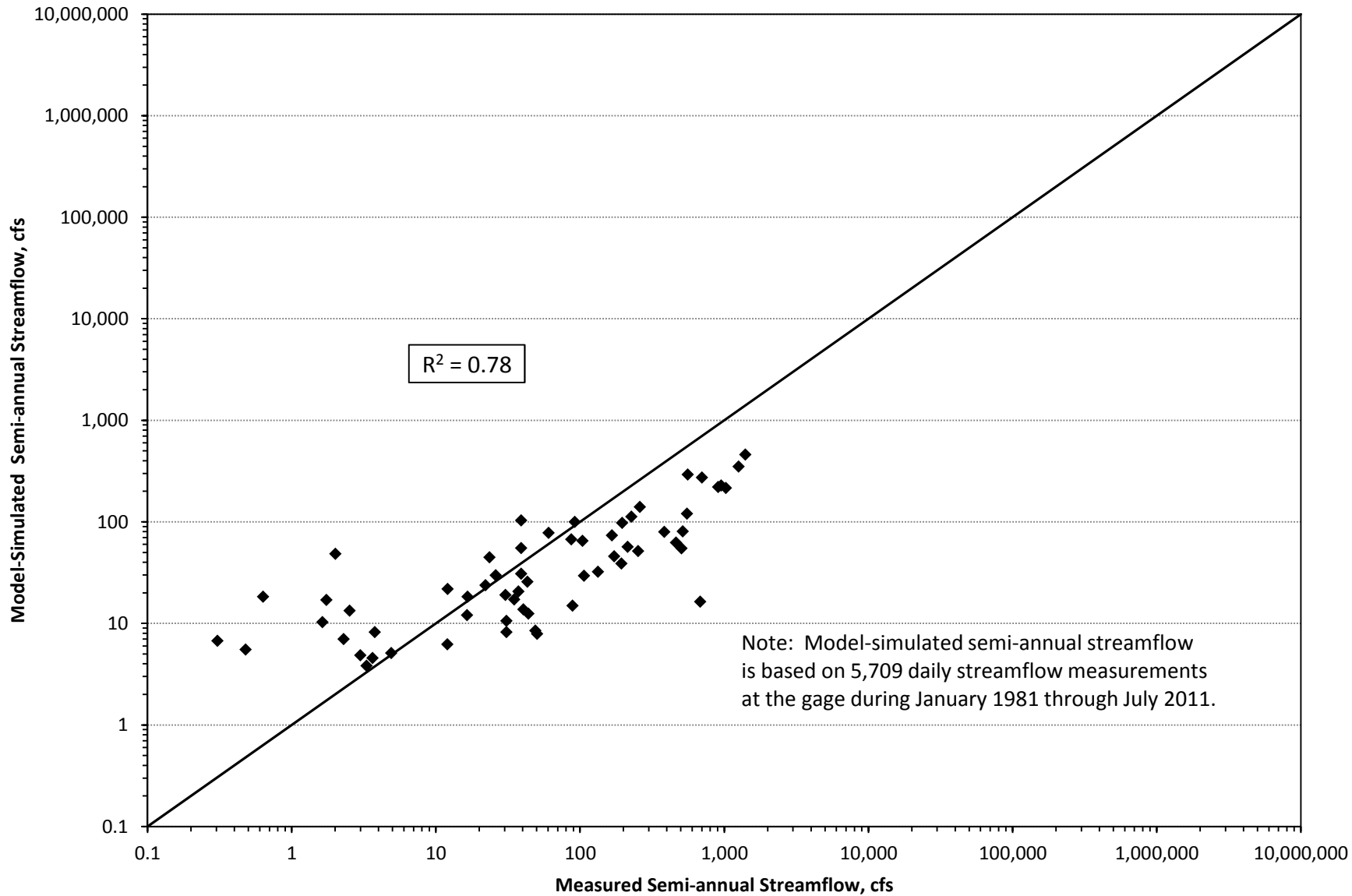


Figure 19

Scatterplot of Measured and Model-Simulated Semi-Annual Streamflow at the  
Estrella River near Estrella Gaging Station No. 11148500 - (1981-2011)

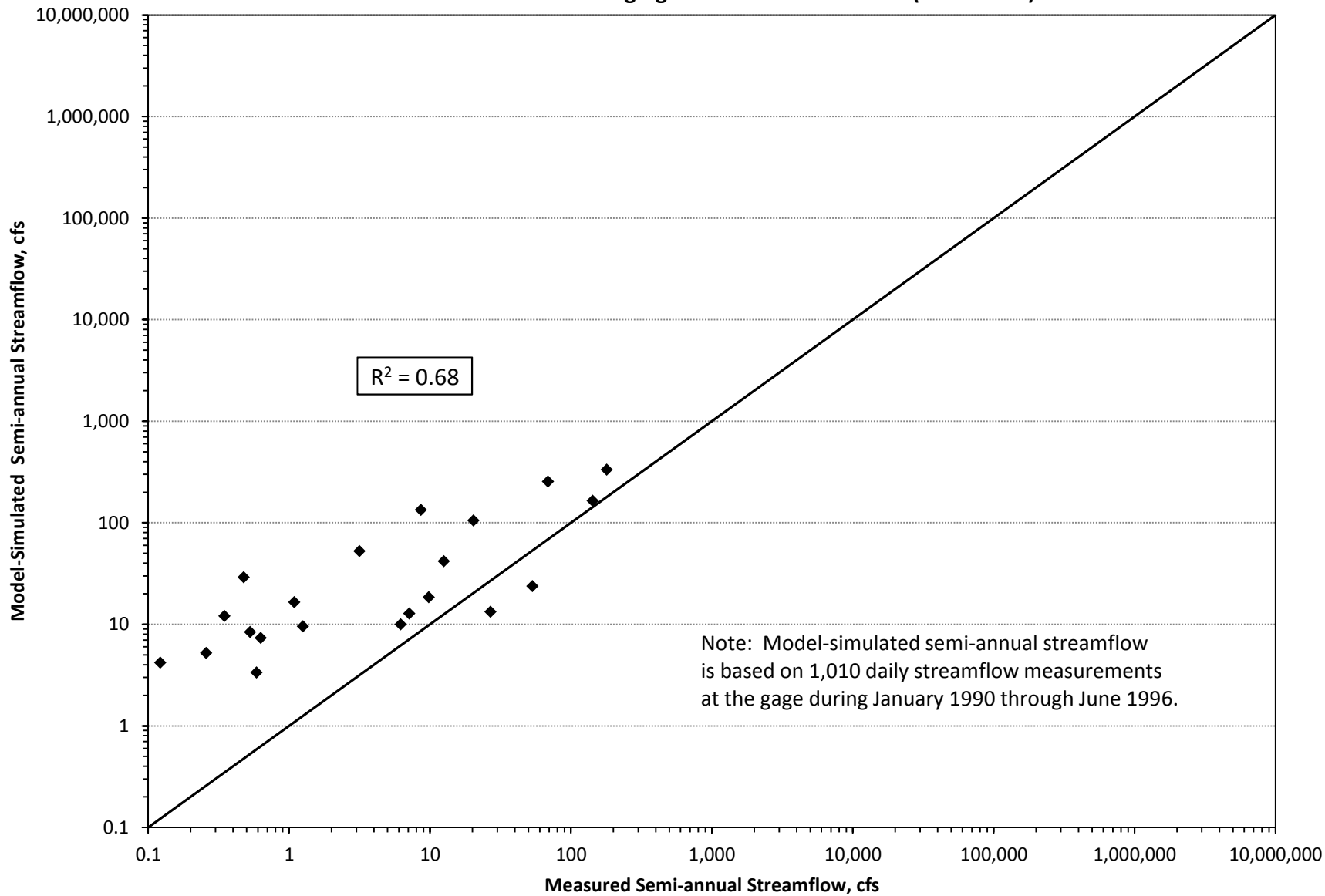
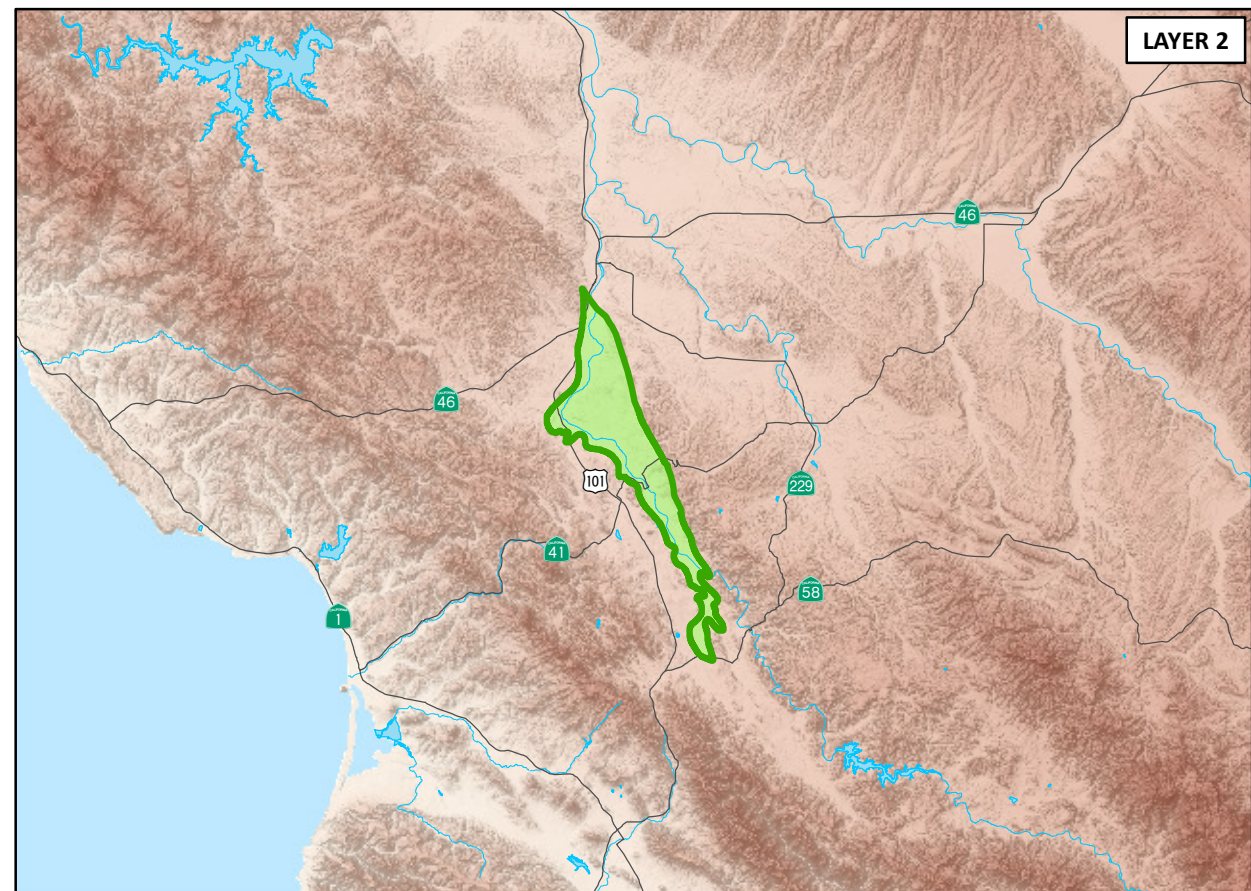
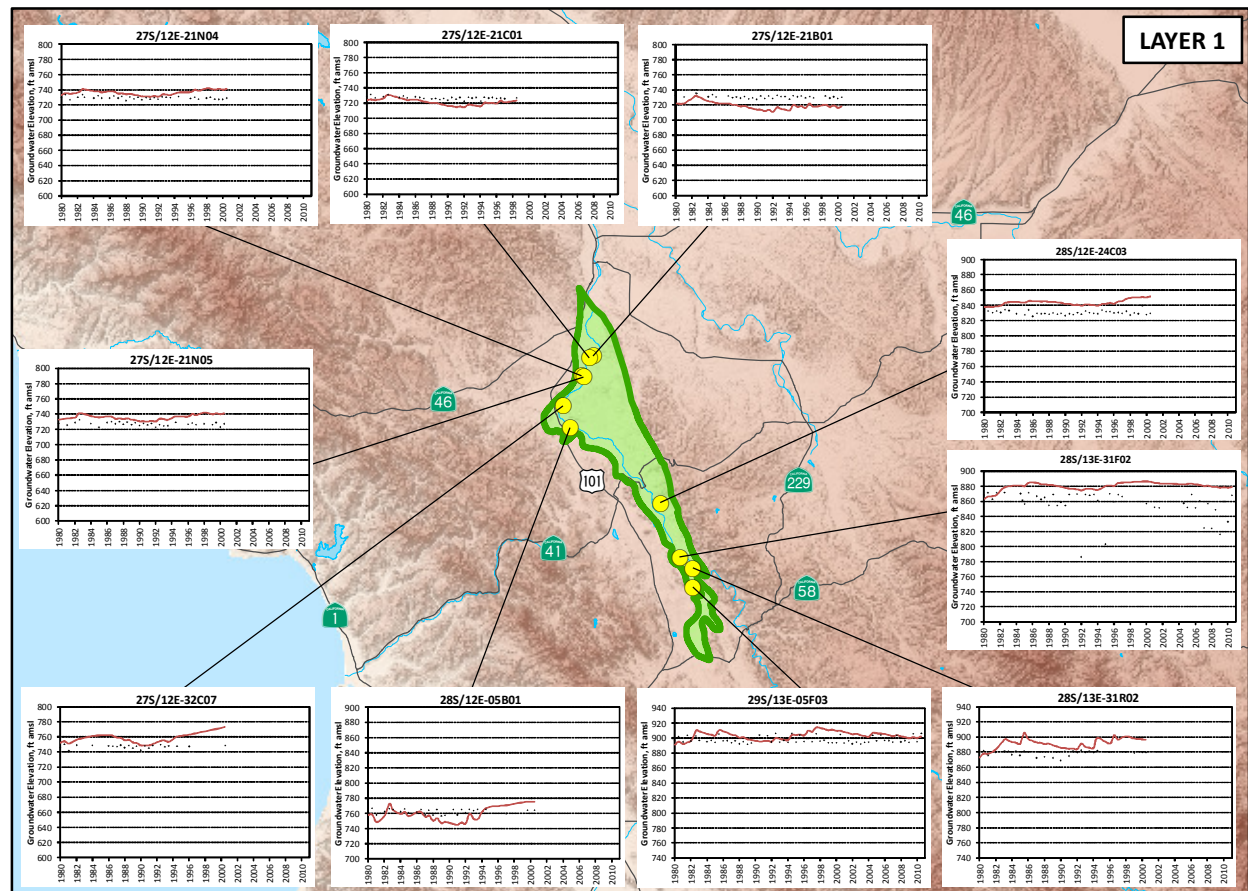
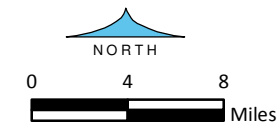
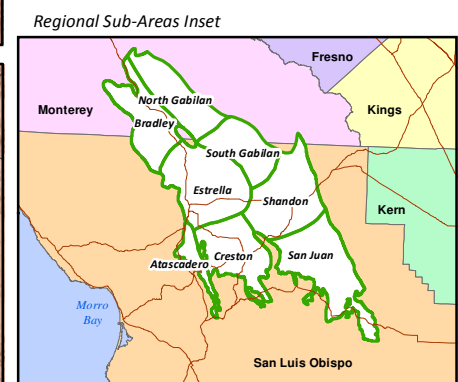
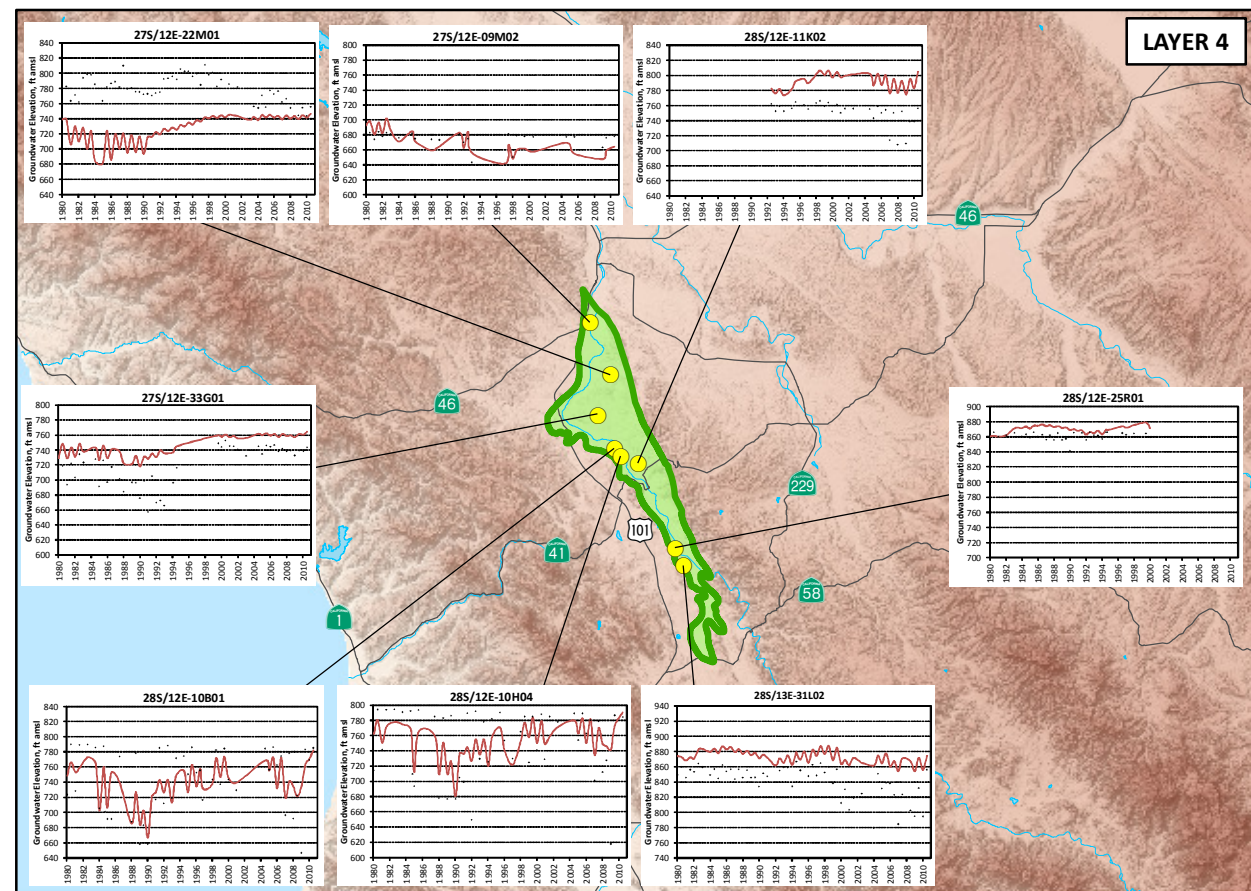
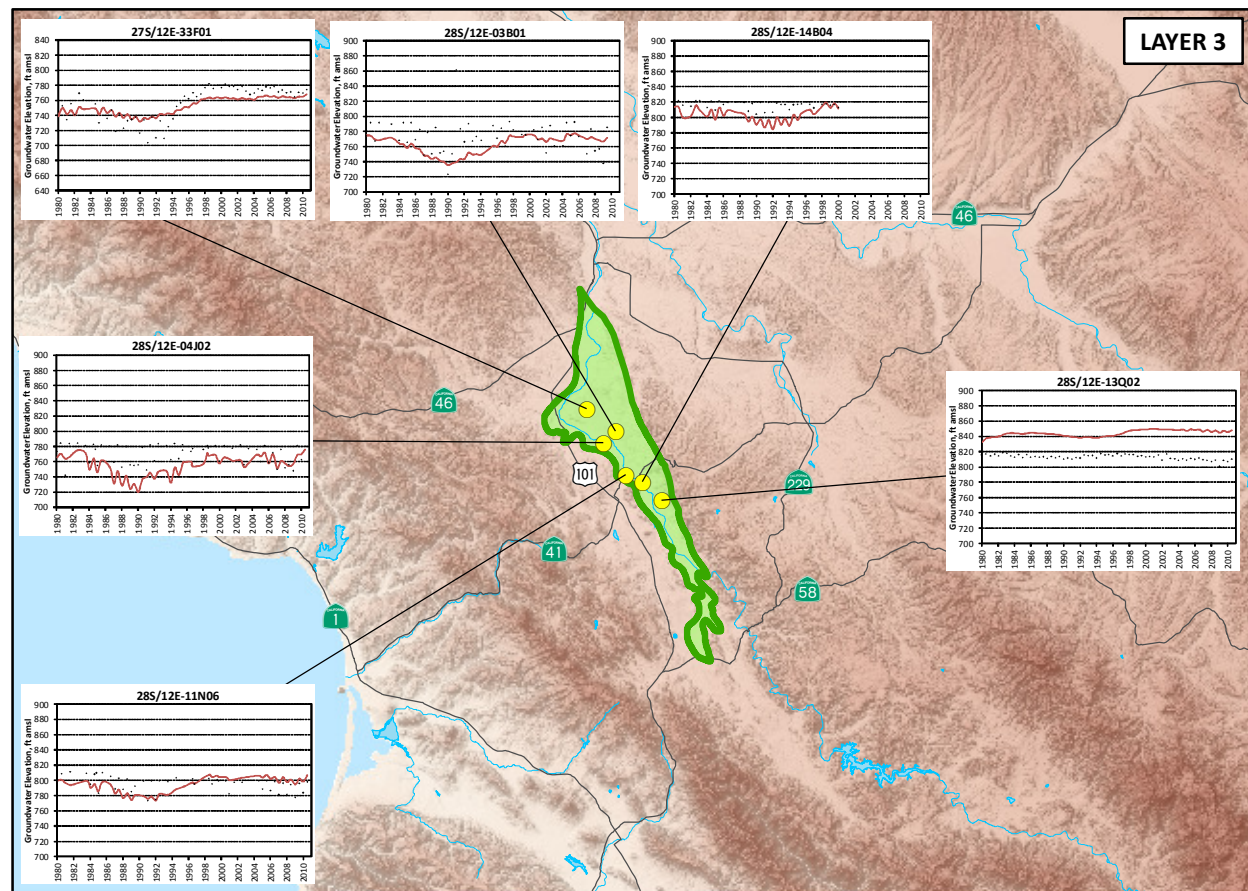


Figure 20



HYDROGRAPHS FOR RECALIBRATED BASIN MODEL ATASCADERO SUB-BASIN

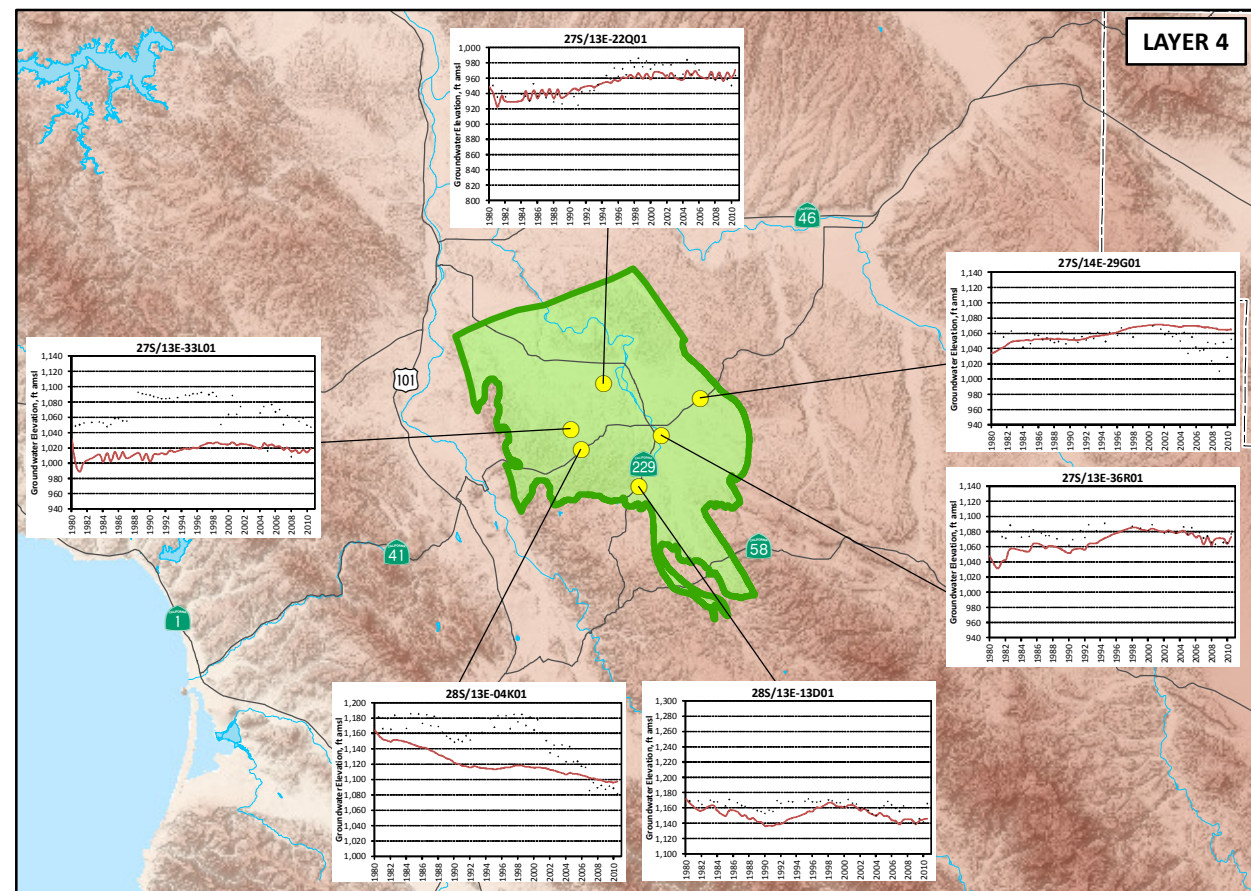
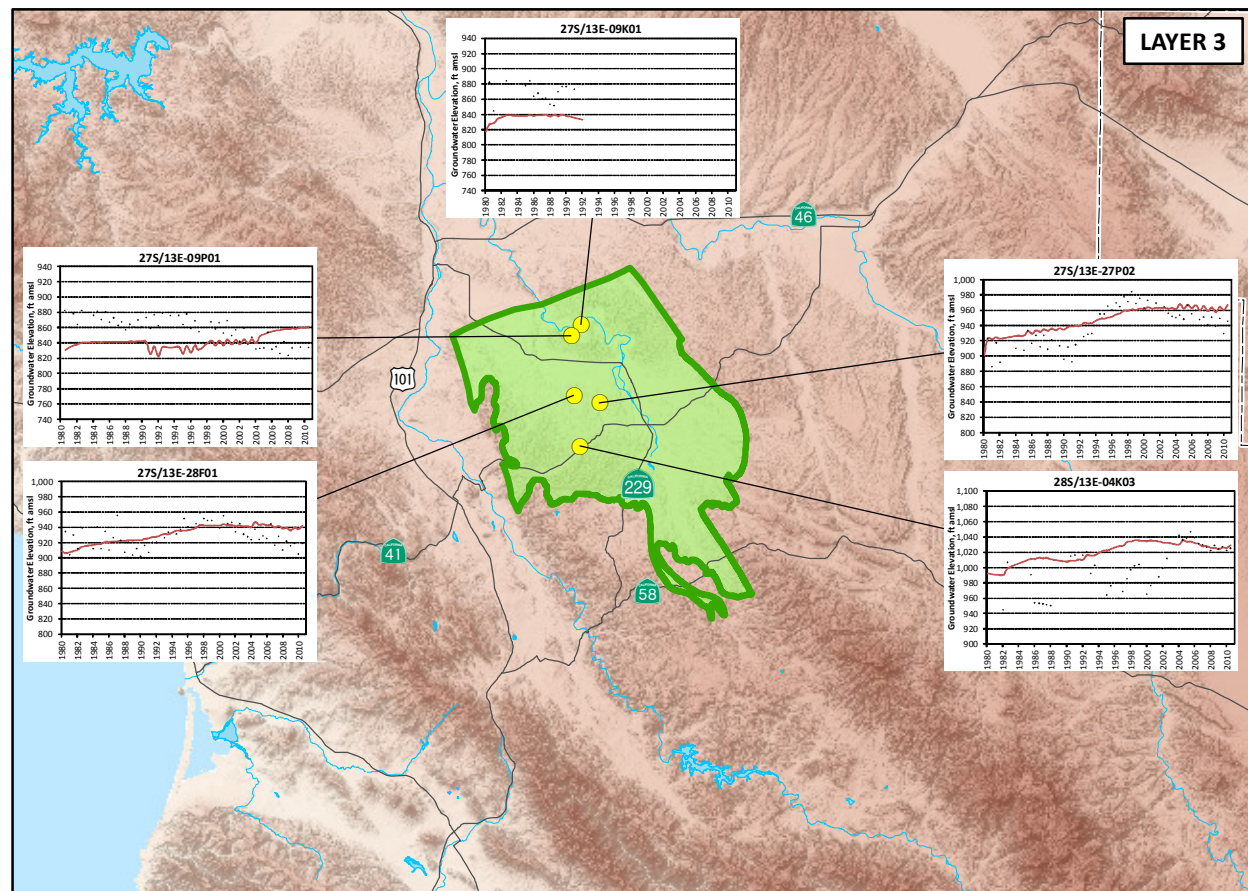
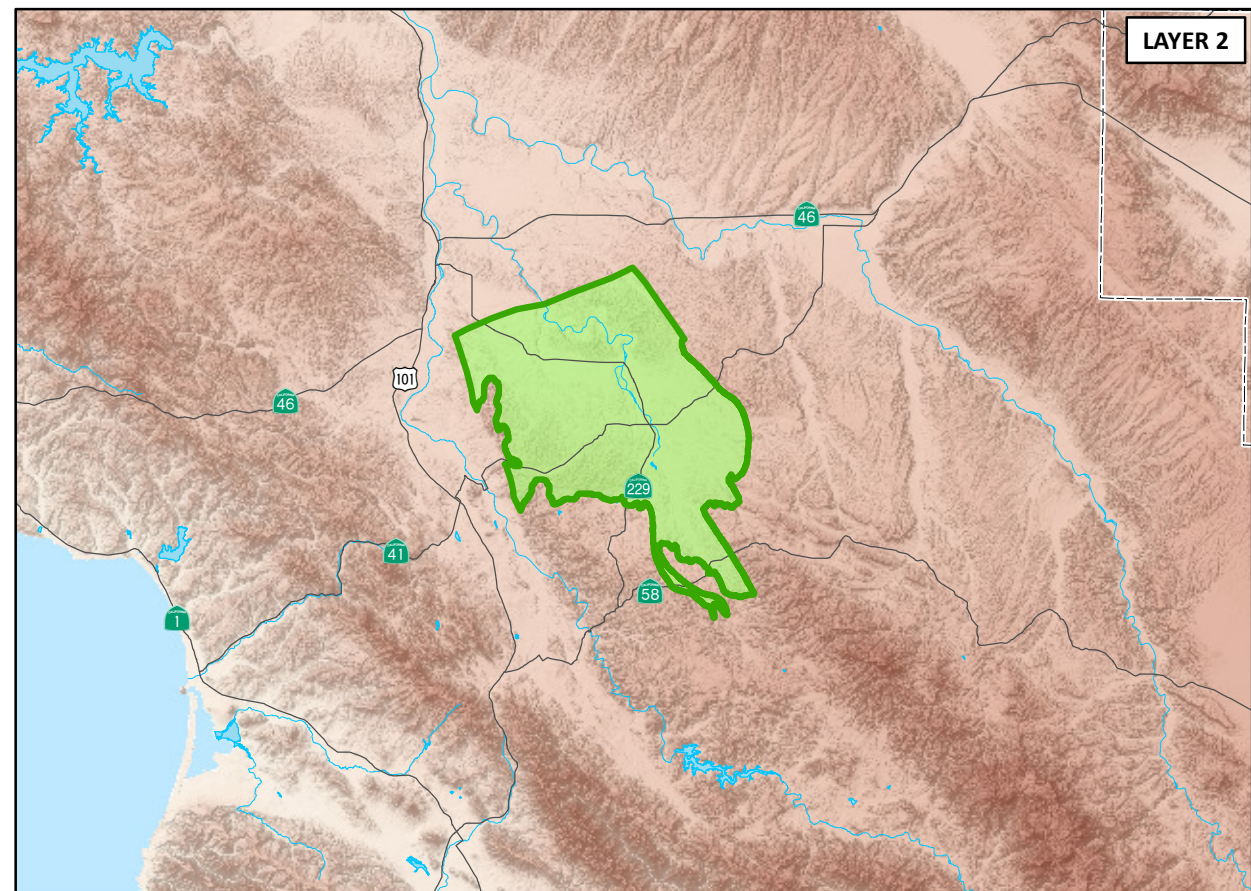
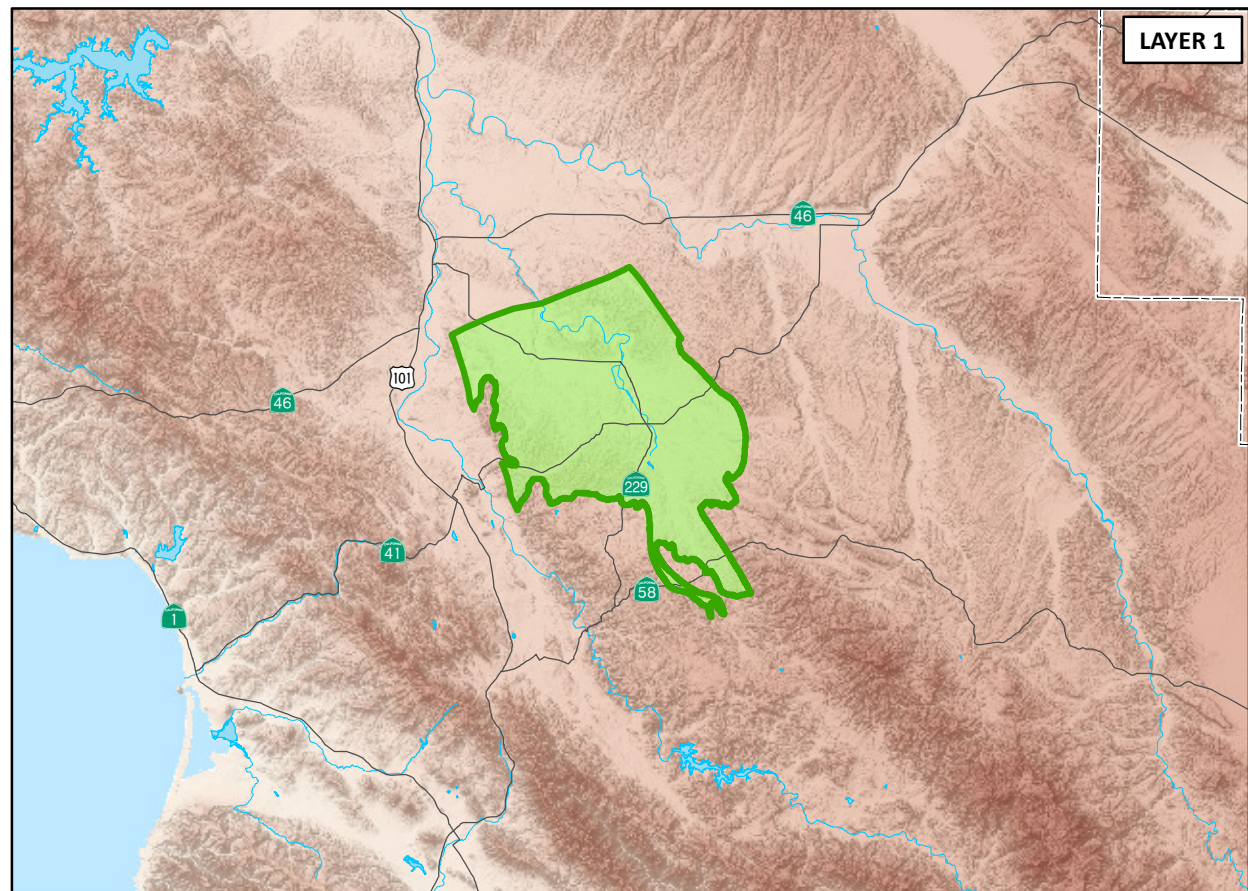
- EXPLANATION**
- Well Designation Within Subbasin
  - Observed
  - Model Generated
  - Paso Robles Groundwater Basin with Sub-Area (Source: Fugro and Cleath, 2002)



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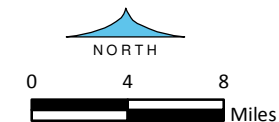
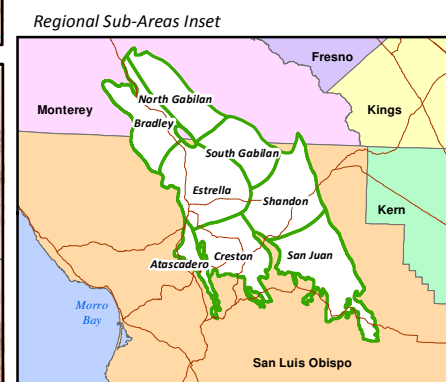
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Figure 21



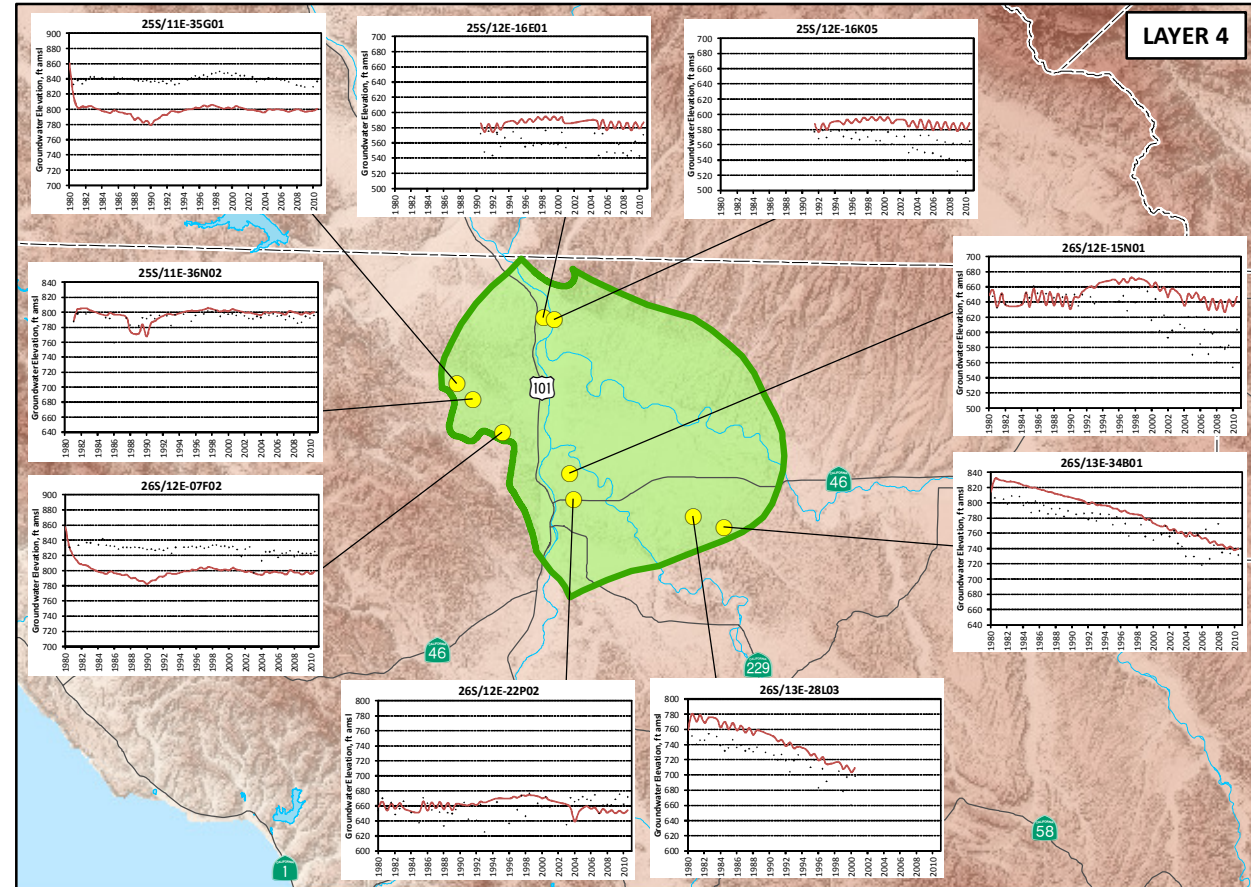
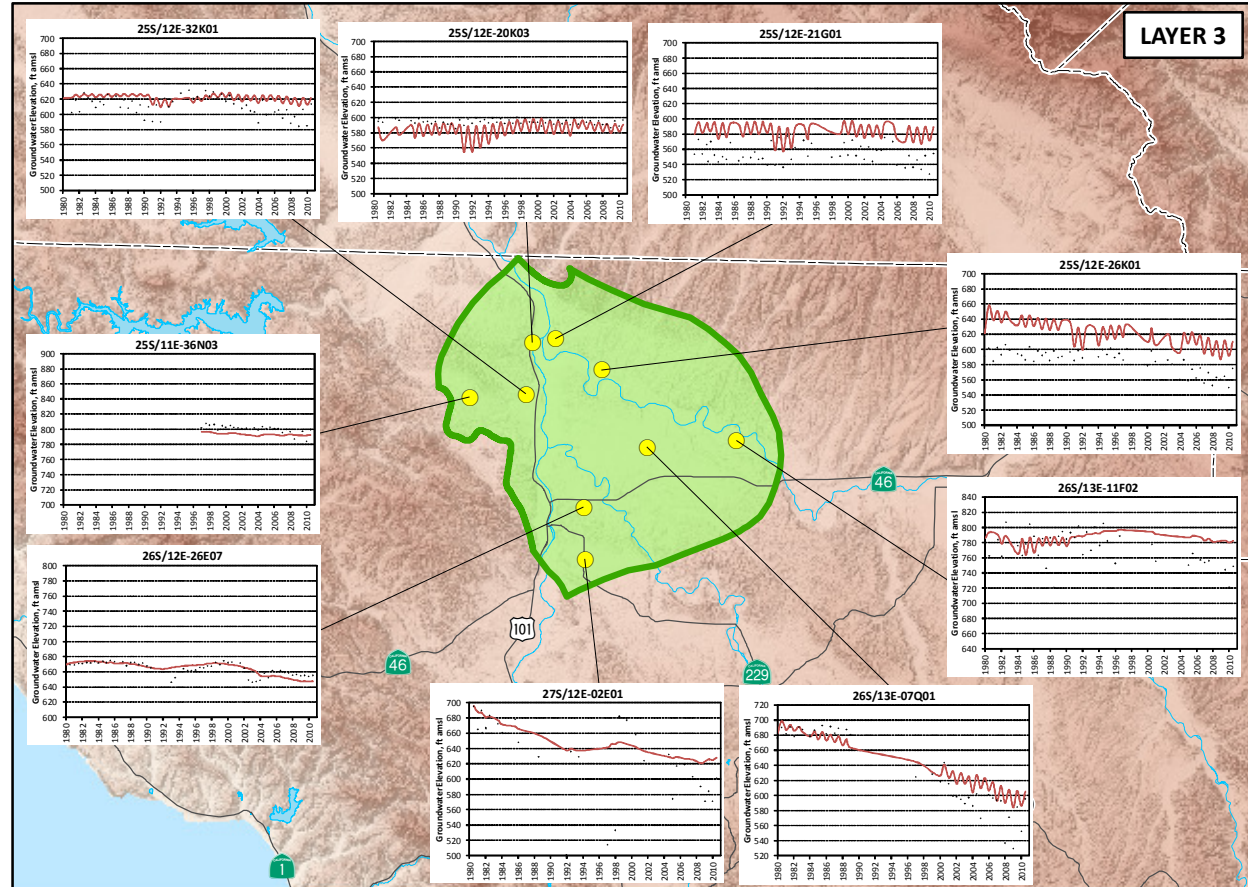
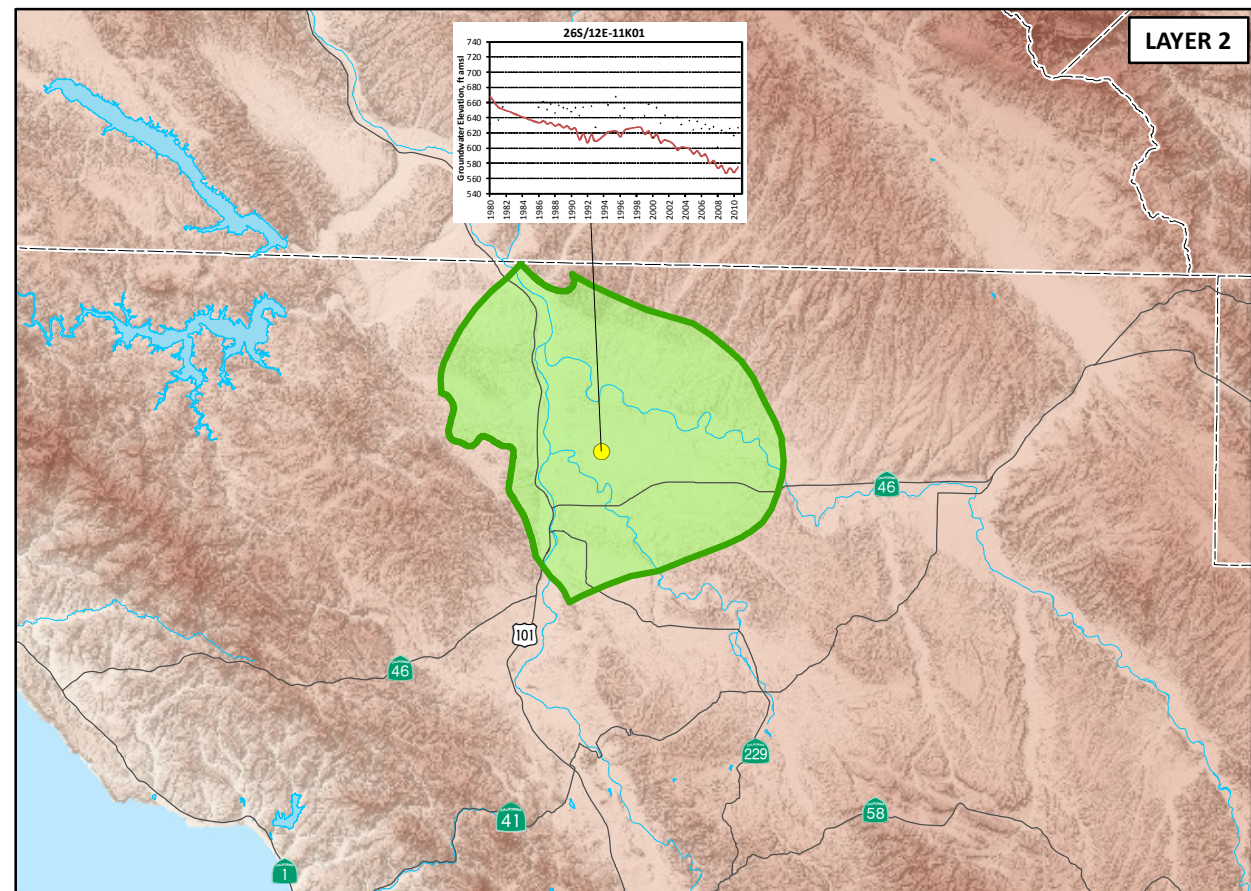
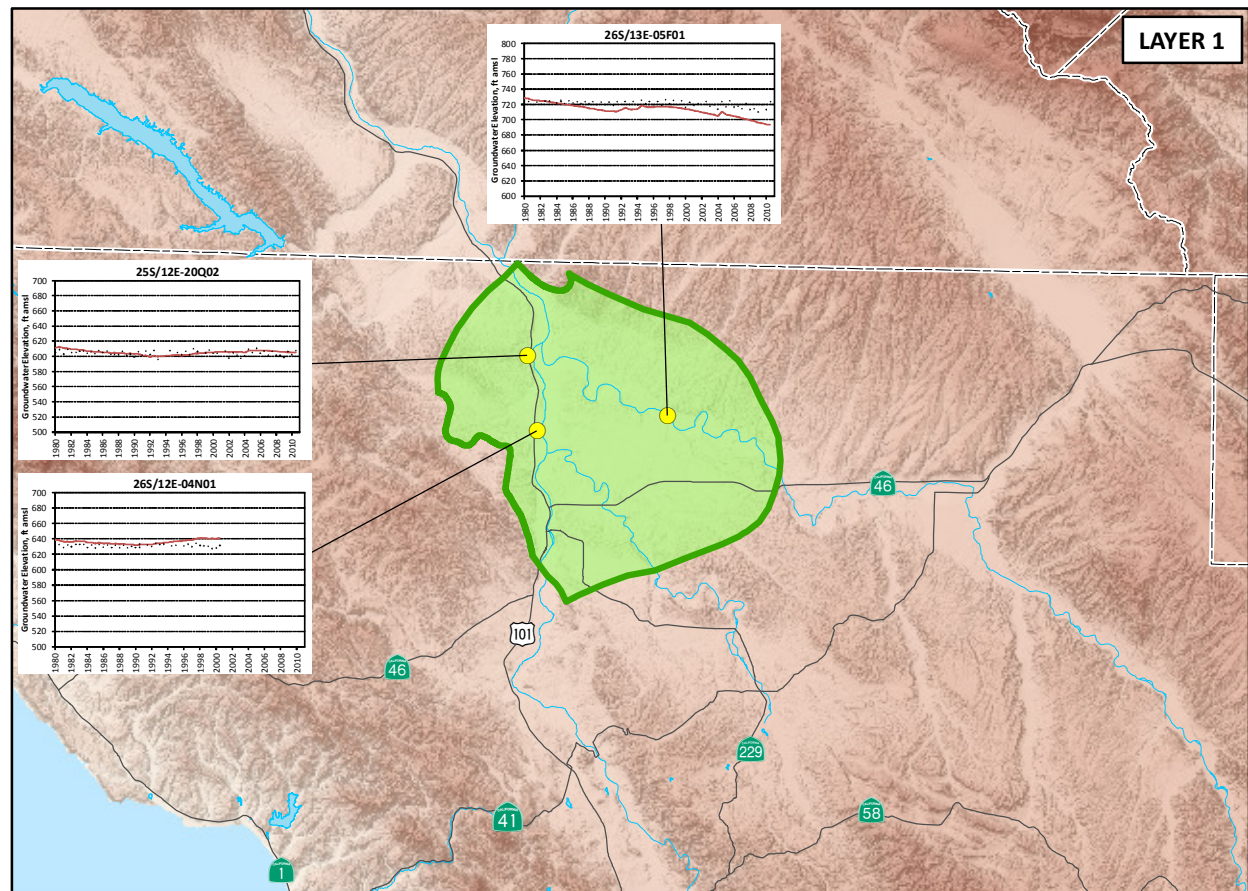
**HYDROGRAPHS FOR RECALIBRATED BASIN MODEL CRESTON SUB-AREA**

- EXPLANATION**
- Well Designation Within Sub-Area
  - Observed
  - Model Generated
  - ▭ Paso Robles Groundwater Basin with Sub-Area (Source: Fugro and Cleath, 2002)
  - - - County Boundary



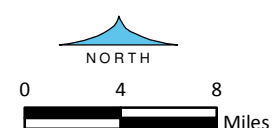
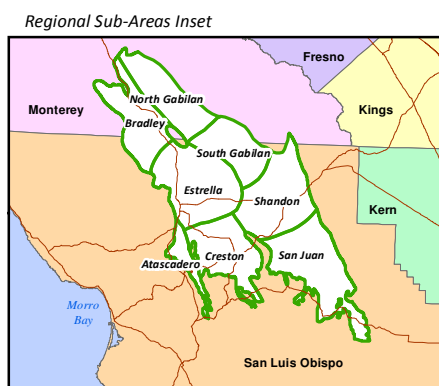
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**Figure 22**



**HYDROGRAPHS FOR RECALIBRATED BASIN MODEL ESTRELLA SUB-AREA**

- EXPLANATION**
- Well Designation Within Sub-Area
  - Observed
  - Model Generated
  - ▭ Paso Robles Groundwater Basin with Sub-Area (Source: Fugro and Cleath, 2002)
  - - - County Boundary



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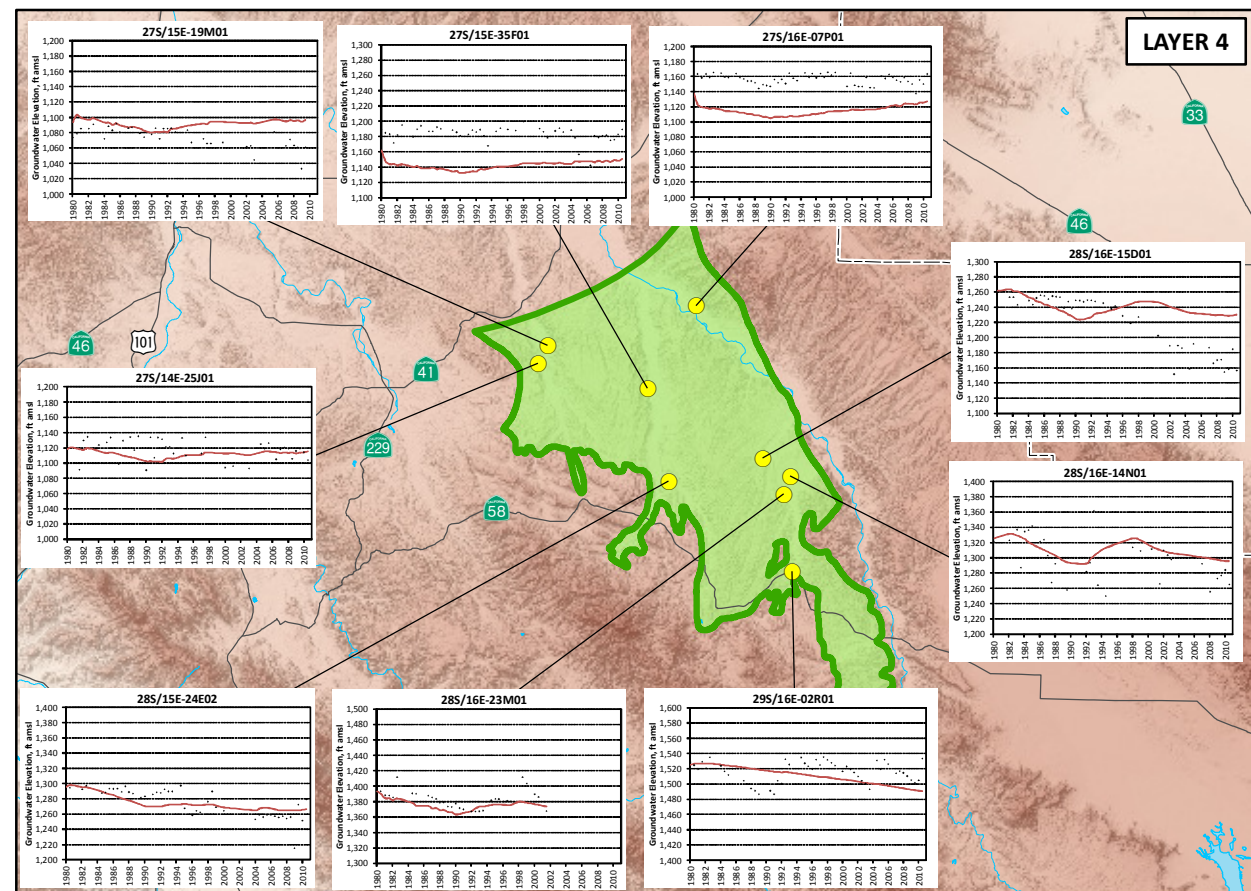
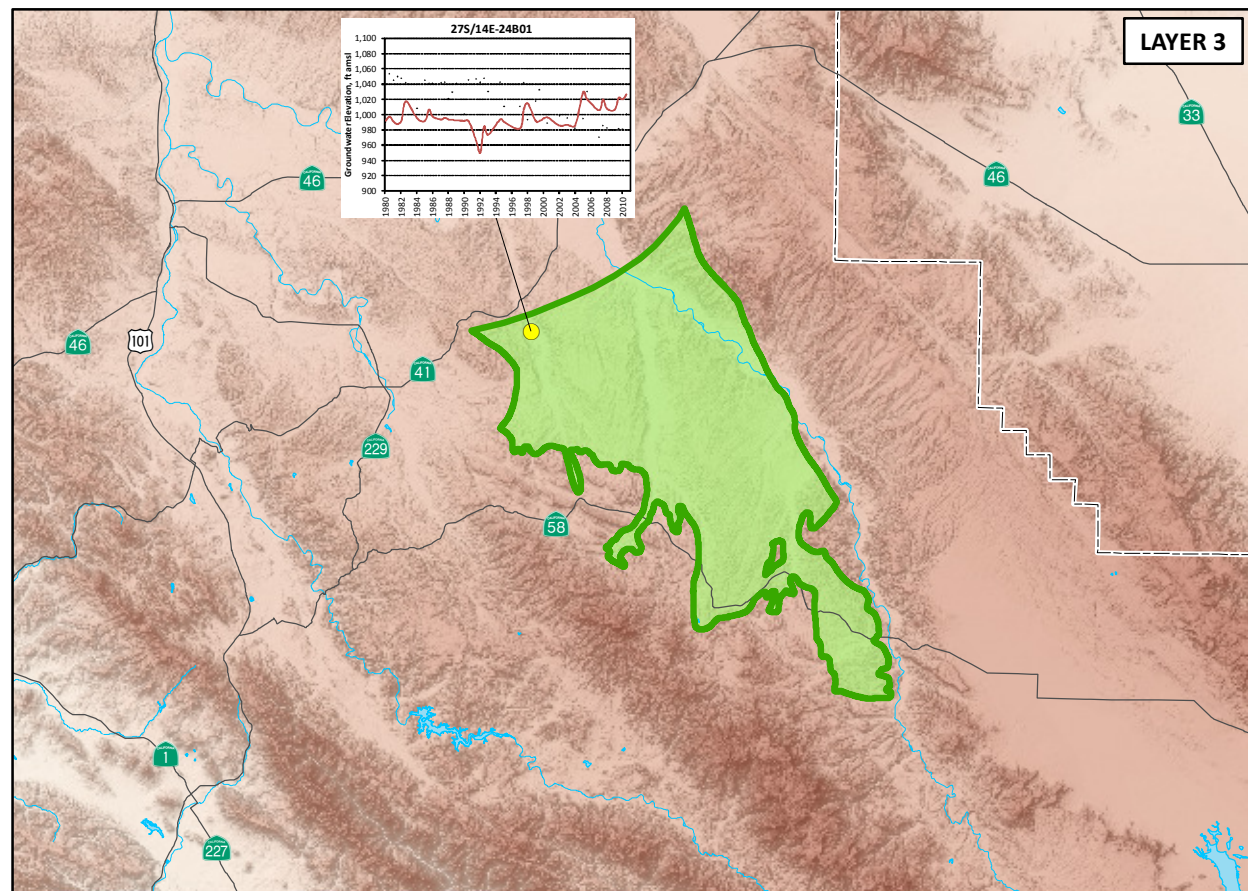
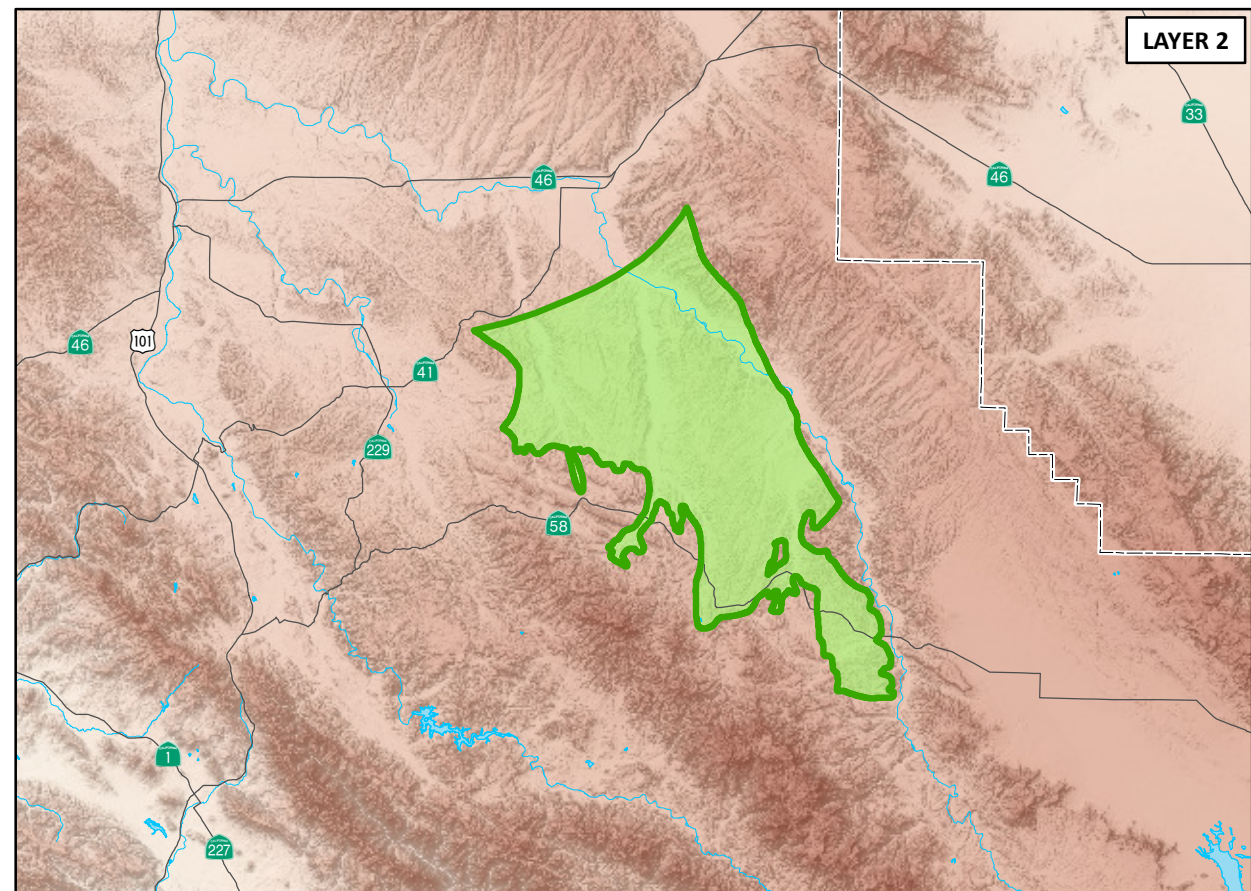
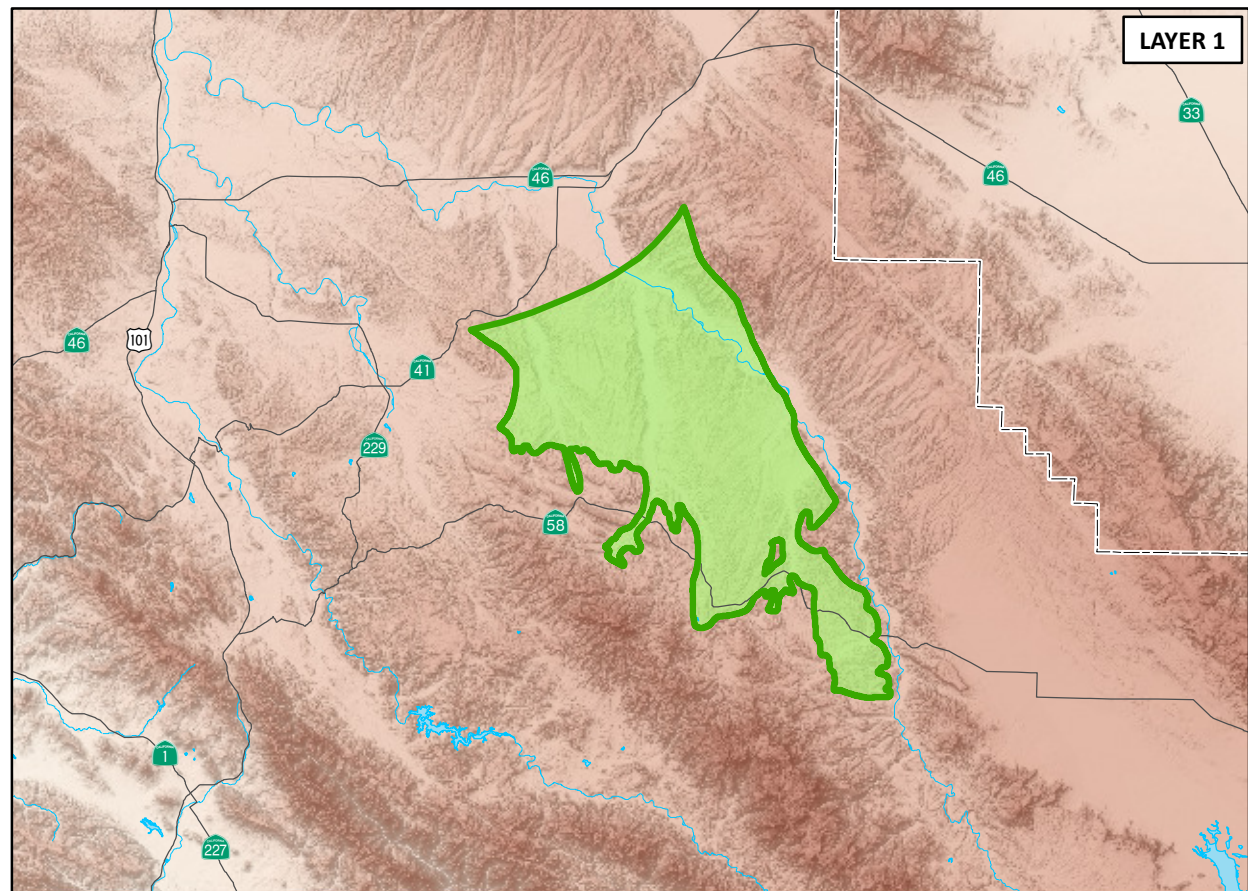
**Figure 23**



REFINEMENT OF THE PASO ROBLES GROUNDWATER BASIN MODEL AND  
RESULTS OF SUPPLEMENTAL WATER SUPPLY OPTIONS PREDICTIVE ANALYSIS

SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

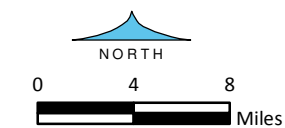
HYDROGRAPHS FOR  
RECALIBRATED BASIN MODEL  
SAN JUAN SUB-AREA



EXPLANATION

- Well Designation Within Sub-Area
- Observed
- Model Generated
- Paso Robles Groundwater Basin with Sub-Area (Source: Fugro and Cleath, 2002)
- County Boundary

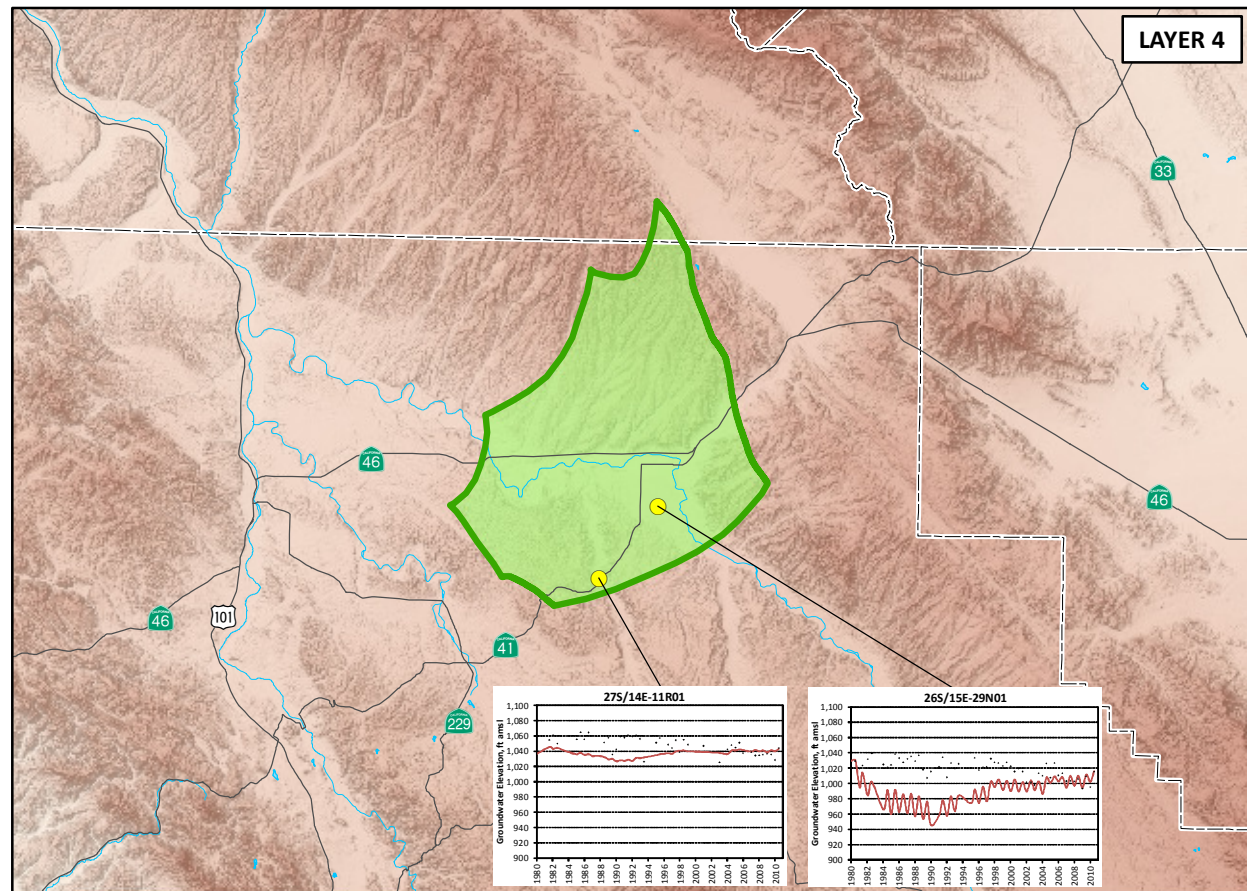
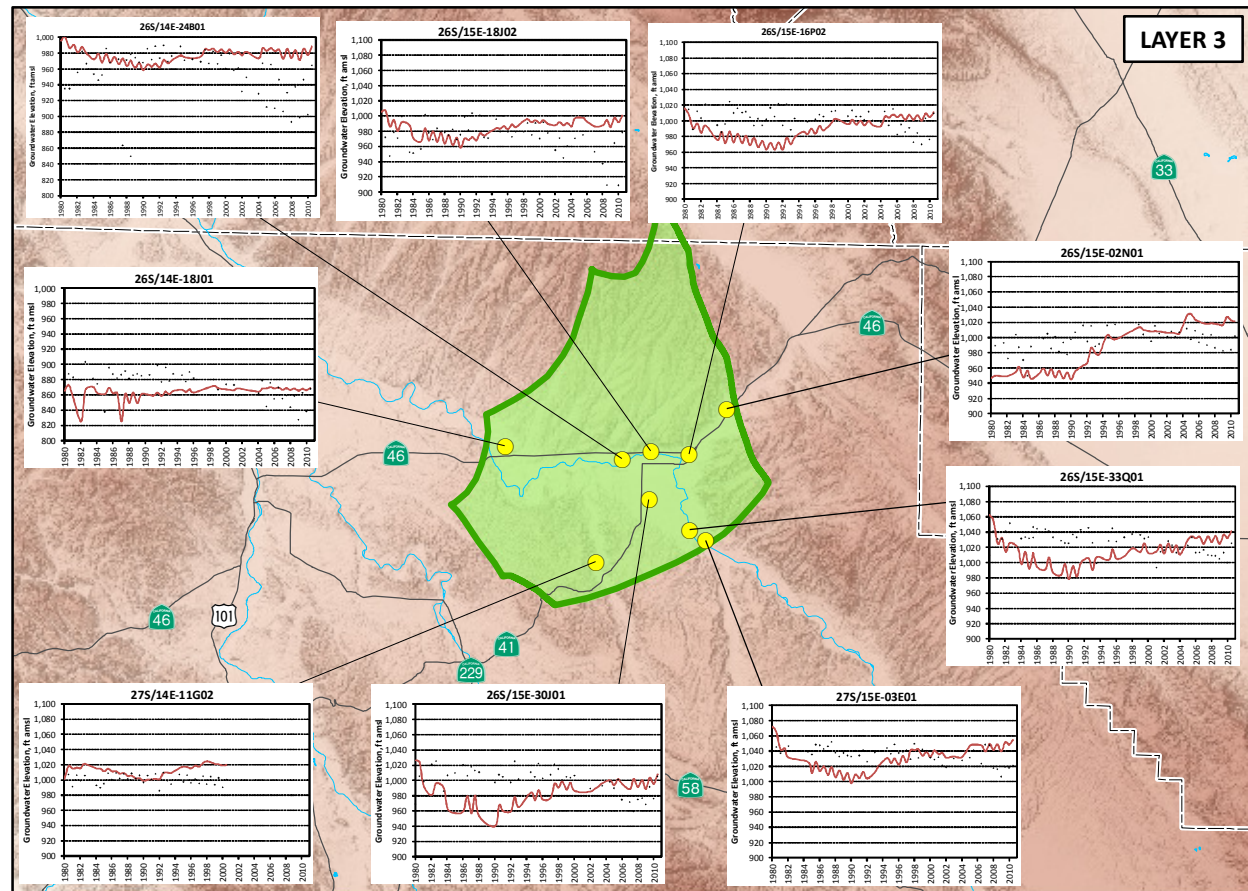
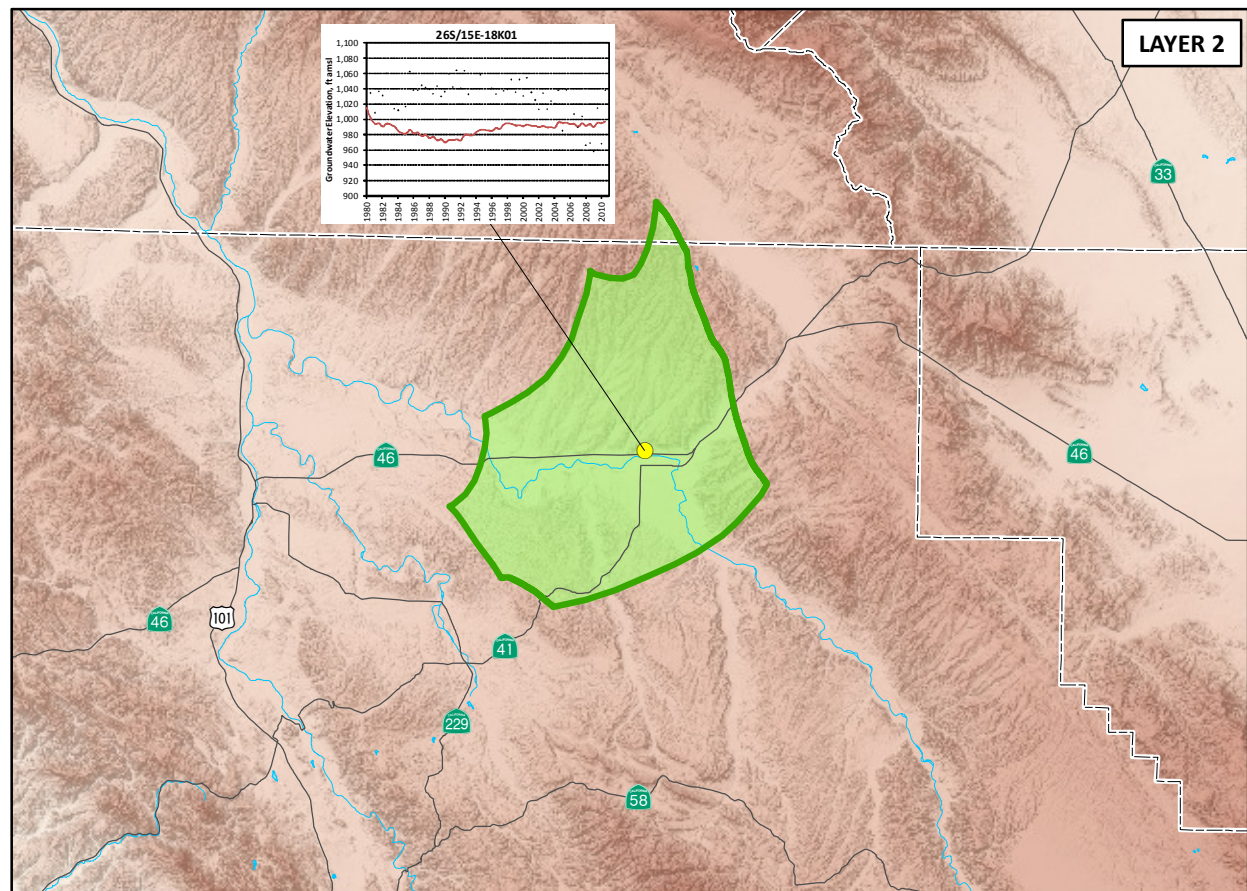
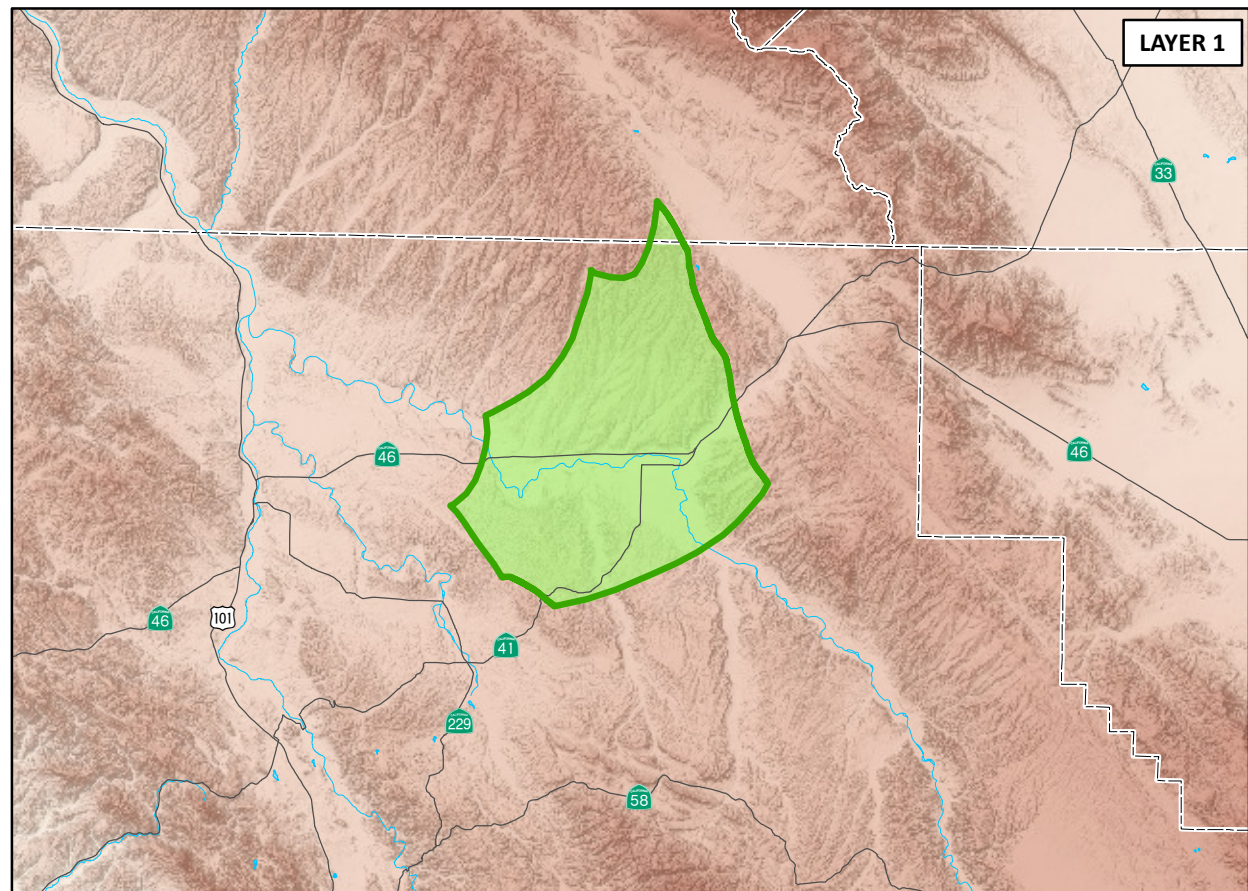
Regional Sub-Areas Inset



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Figure 24

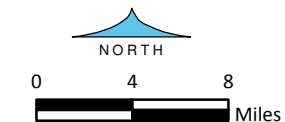
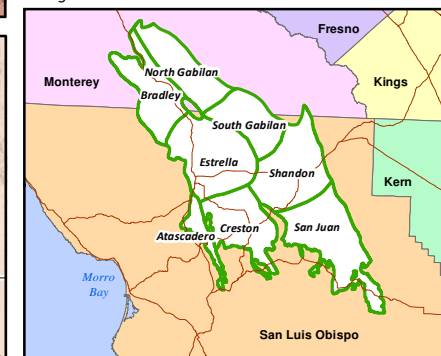


**HYDROGRAPHS FOR RECALIBRATED BASIN MODEL SHANDON SUB-AREA**

EXPLANATION

- Well Designation Within Sub-Area
- Observed
- Model Generated
- Paso Robles Sub-Area Boundary (Source: Fugro and Cleath, 2002)
- County Boundary

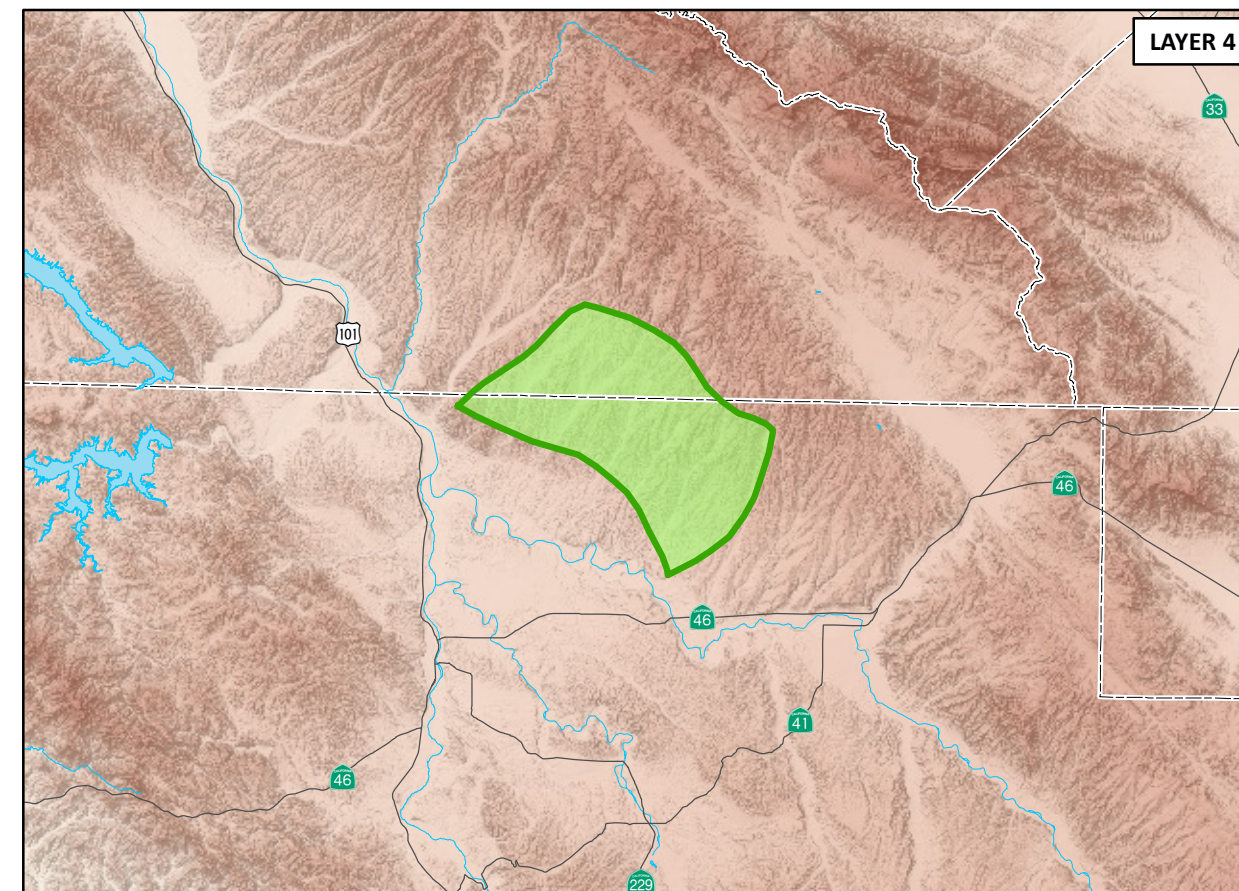
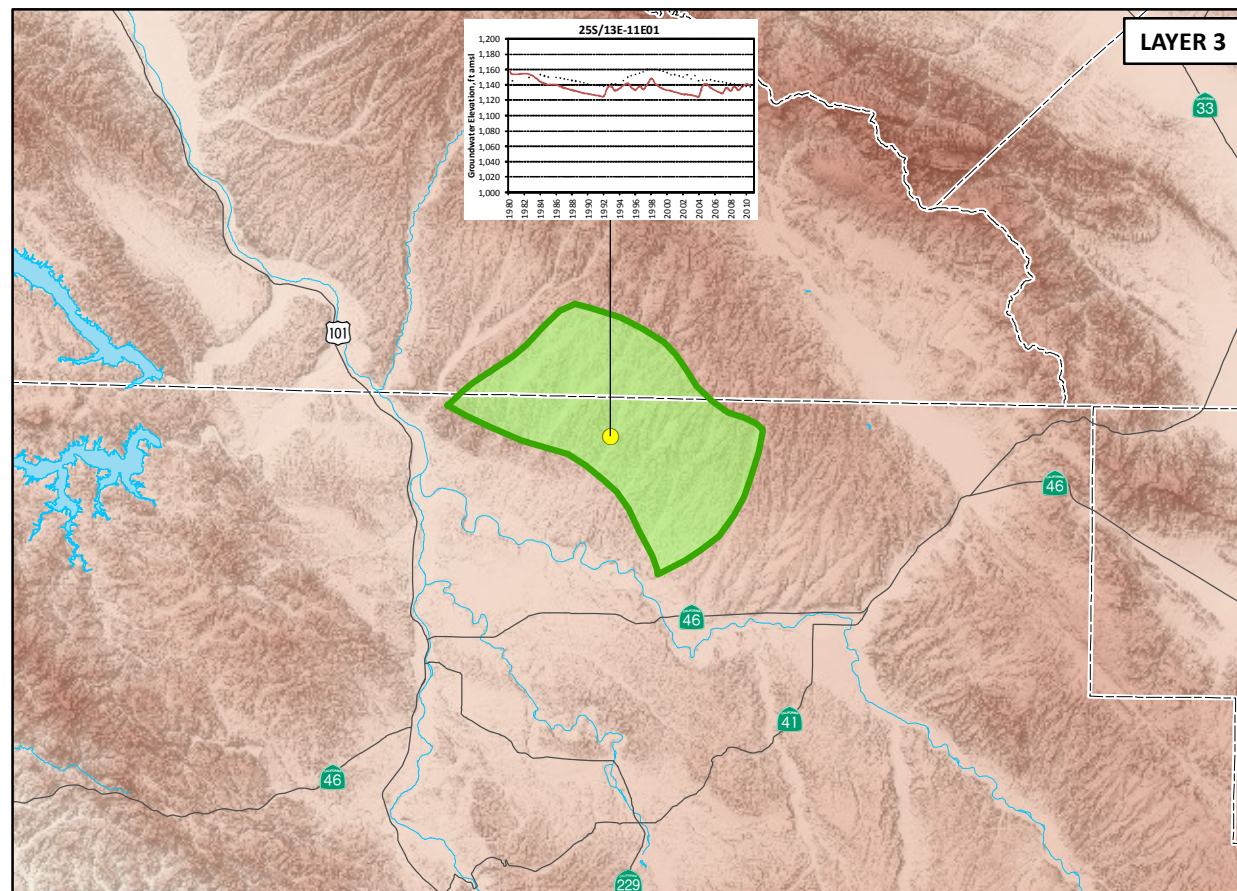
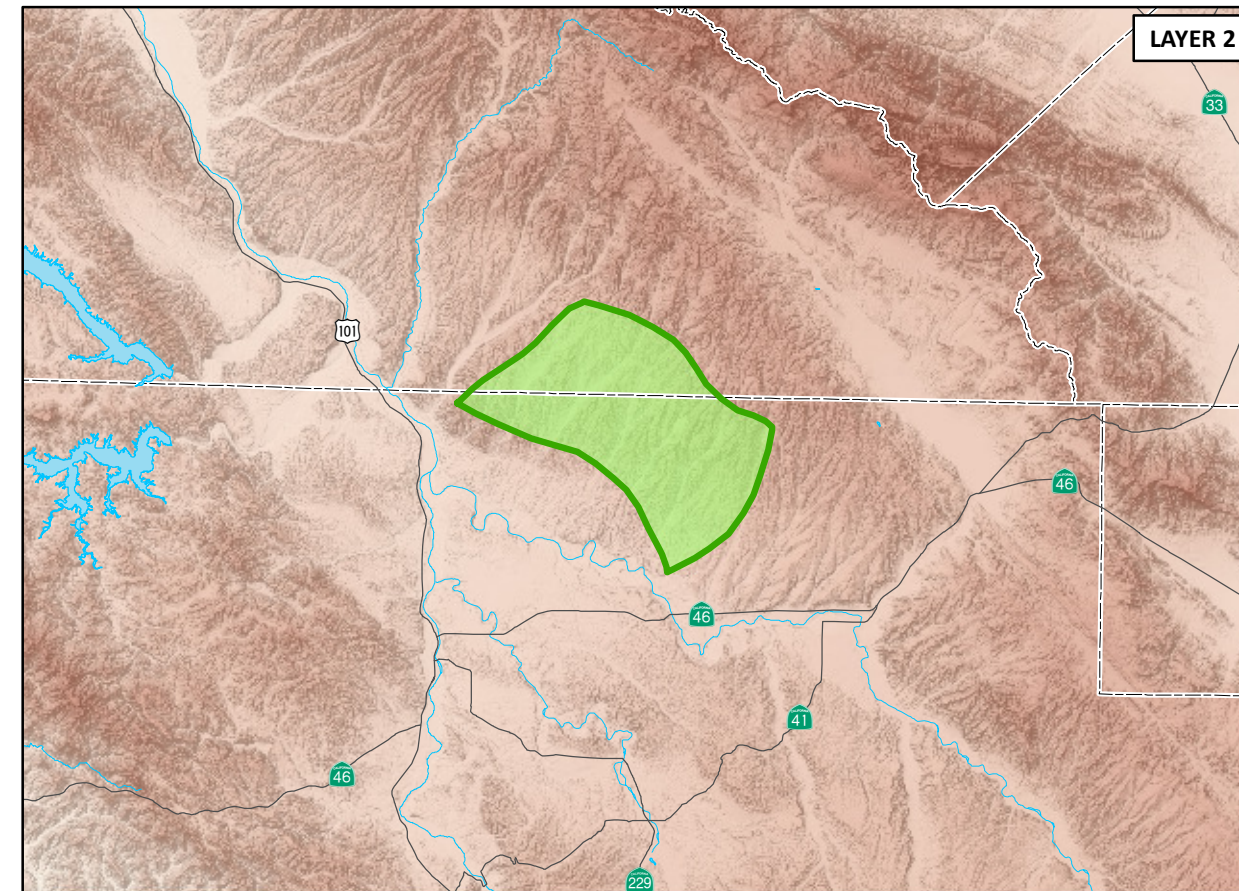
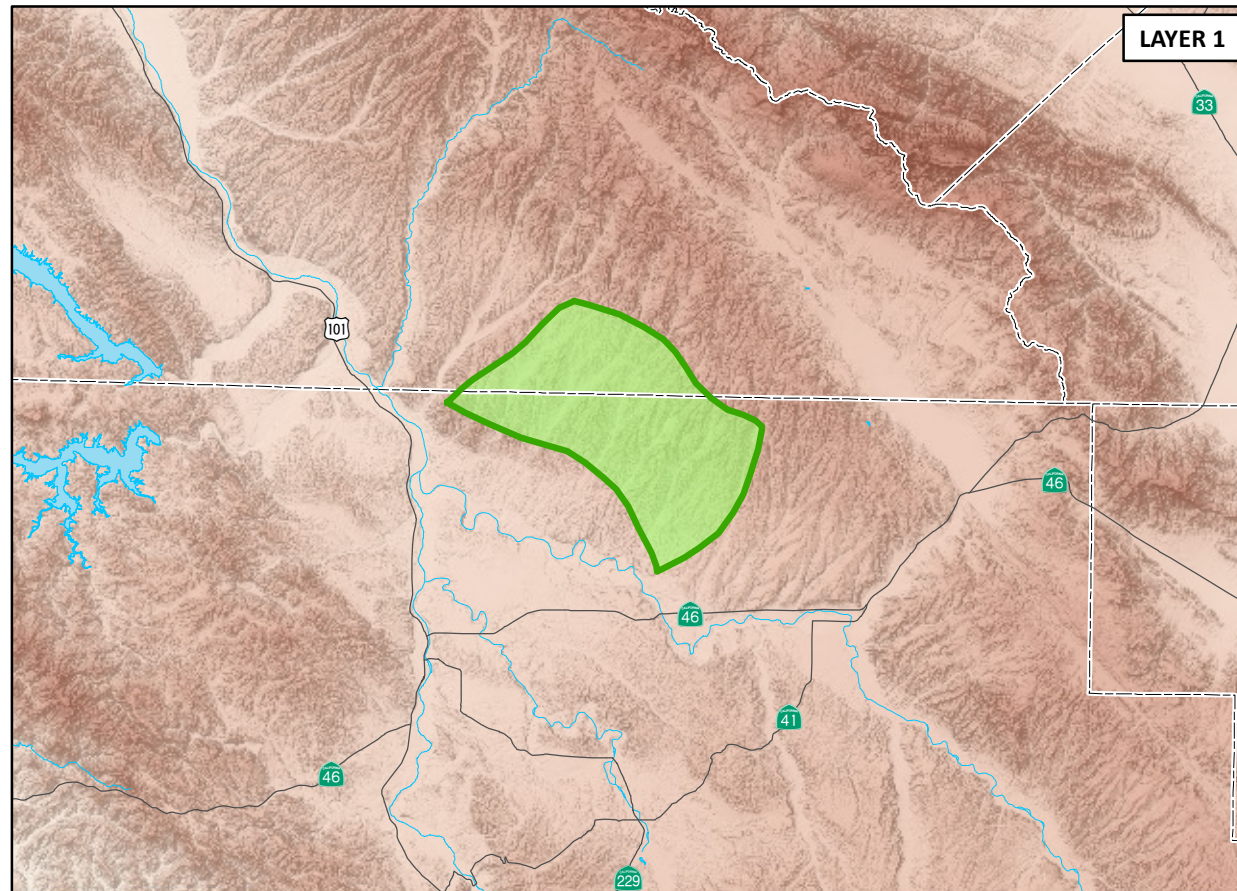
*Regional Sub-Areas Inset*



**GEOSCIENCE**

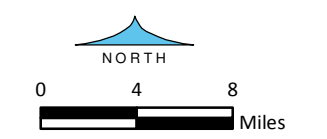
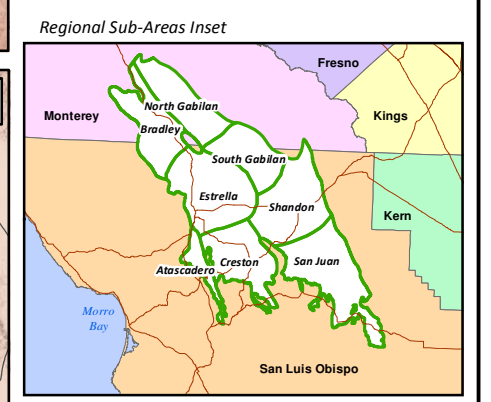
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**Figure 25**



**HYDROGRAPHS FOR RECALIBRATED BASIN MODEL SOUTH GABILAN SUB-AREA**

- EXPLANATION**
- Well Designation Within Sub-Area
  - Observed
  - Model Generated
  - Paso Robles Groundwater Basin with Sub-Area (Source: Fugro and Cleath, 2002)
  - County Boundary



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**Figure 26**

W:\GIS\_proj\co\_slo\_paso\_robles\_model\34\_Fig\_26\_Hydrograph\_SouthGabilanSubarea\_12-16.mxd

### Comparison of Measured Versus Model-Calculated Groundwater Elevations Transient Model Recalibration (1981 - 2011)

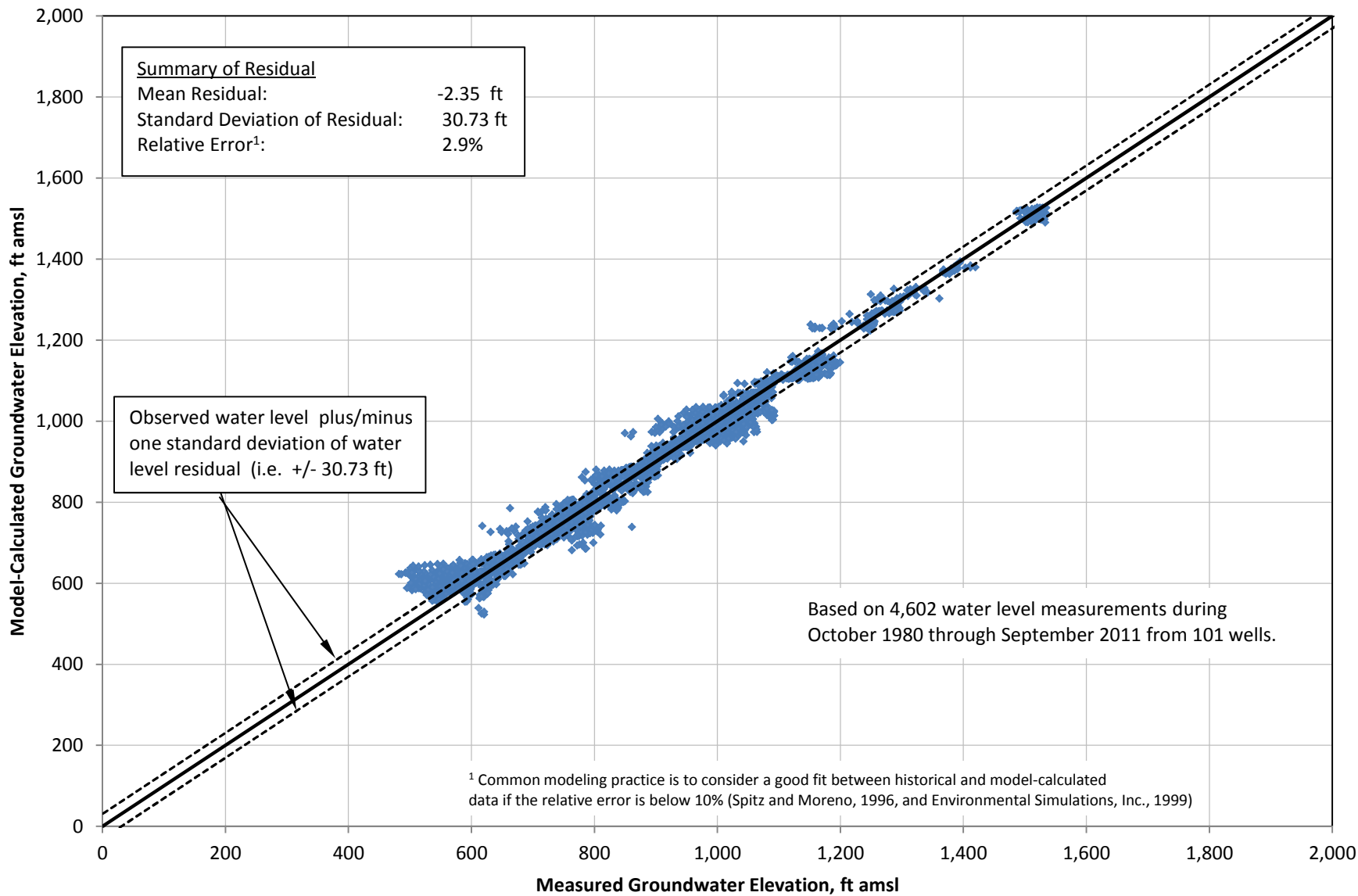


Figure 27

### Temporal Distribution of Groundwater Elevation Residuals (1981 - 2011)

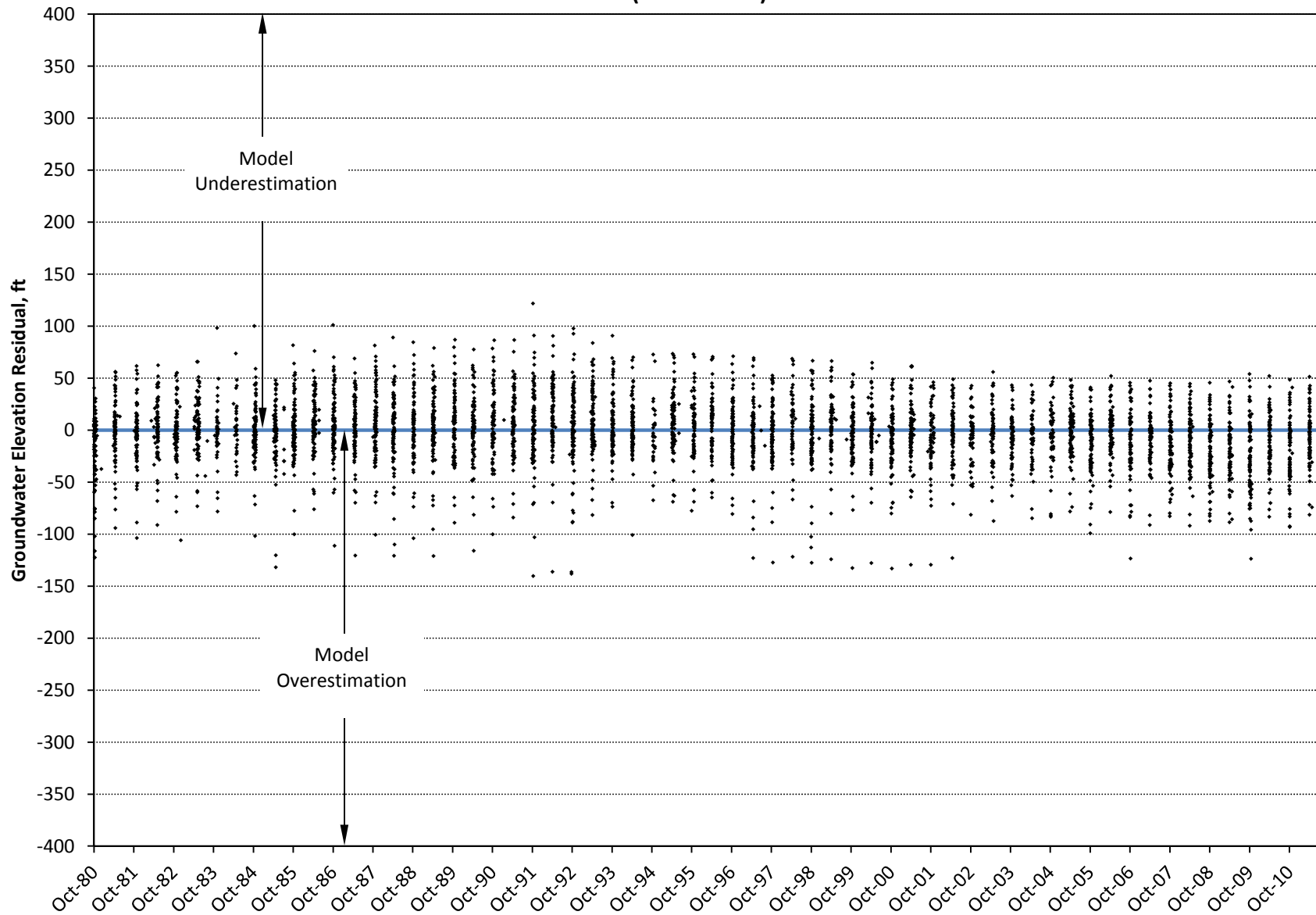


Figure 28

### Histogram of Groundwater Residuals Transient Model Recalibration (1981-2011)

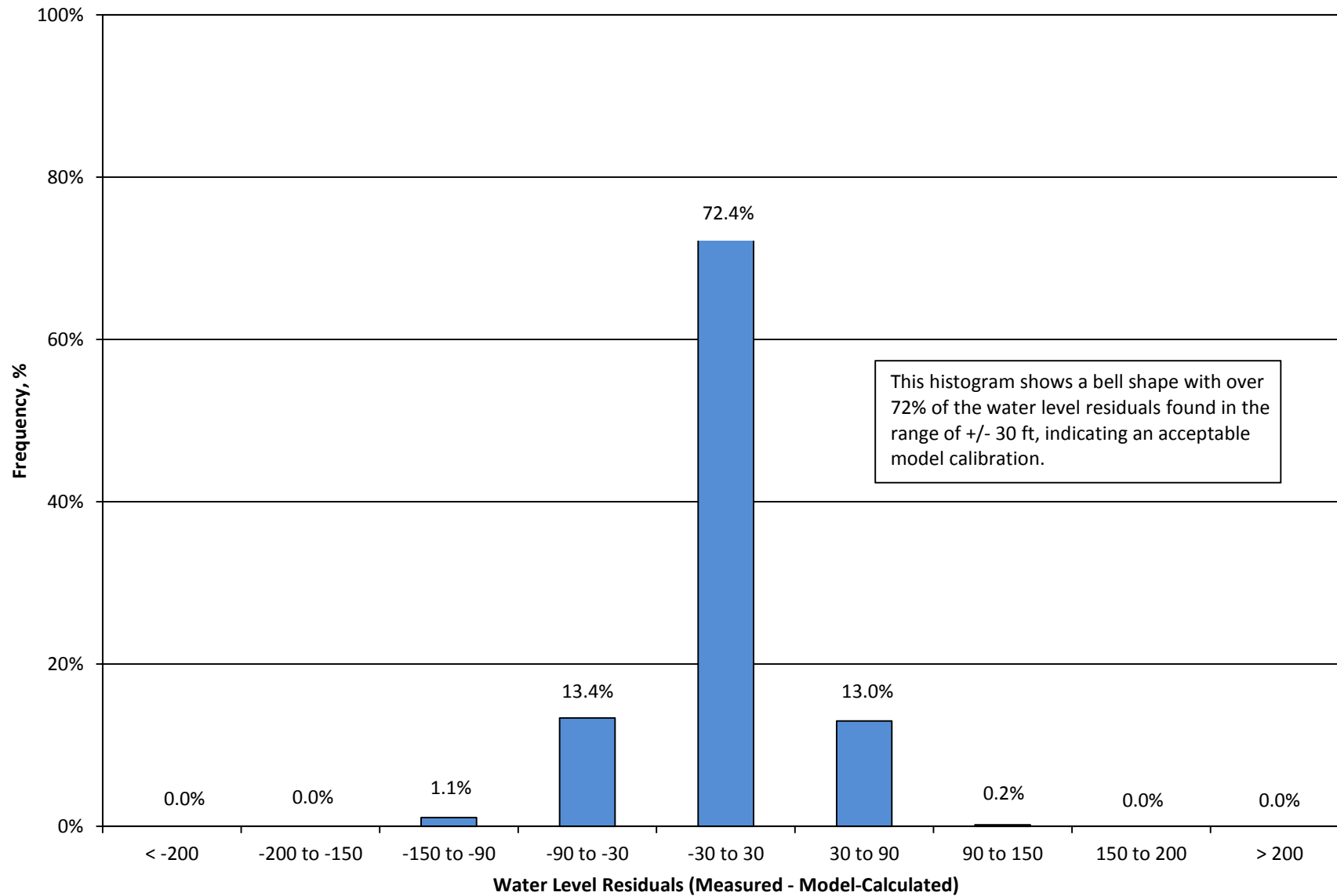
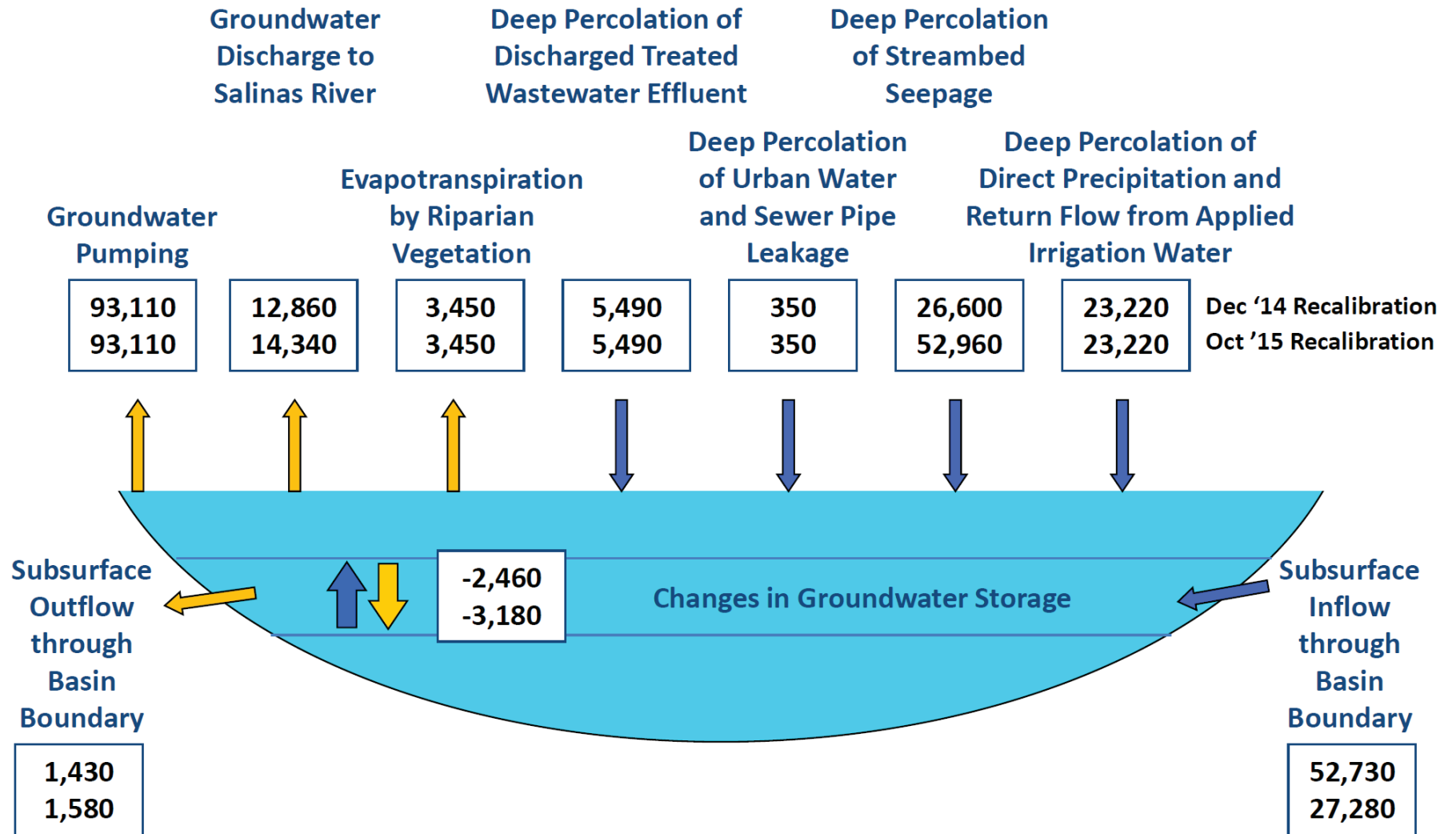


Figure 29



COMPARISON OF AVERAGE ANNUAL PASO ROBLES GROUNDWATER BASIN BUDGETS ANNUAL AVERAGE OF WATER YEARS 1981 - 2011

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**Figure 30**

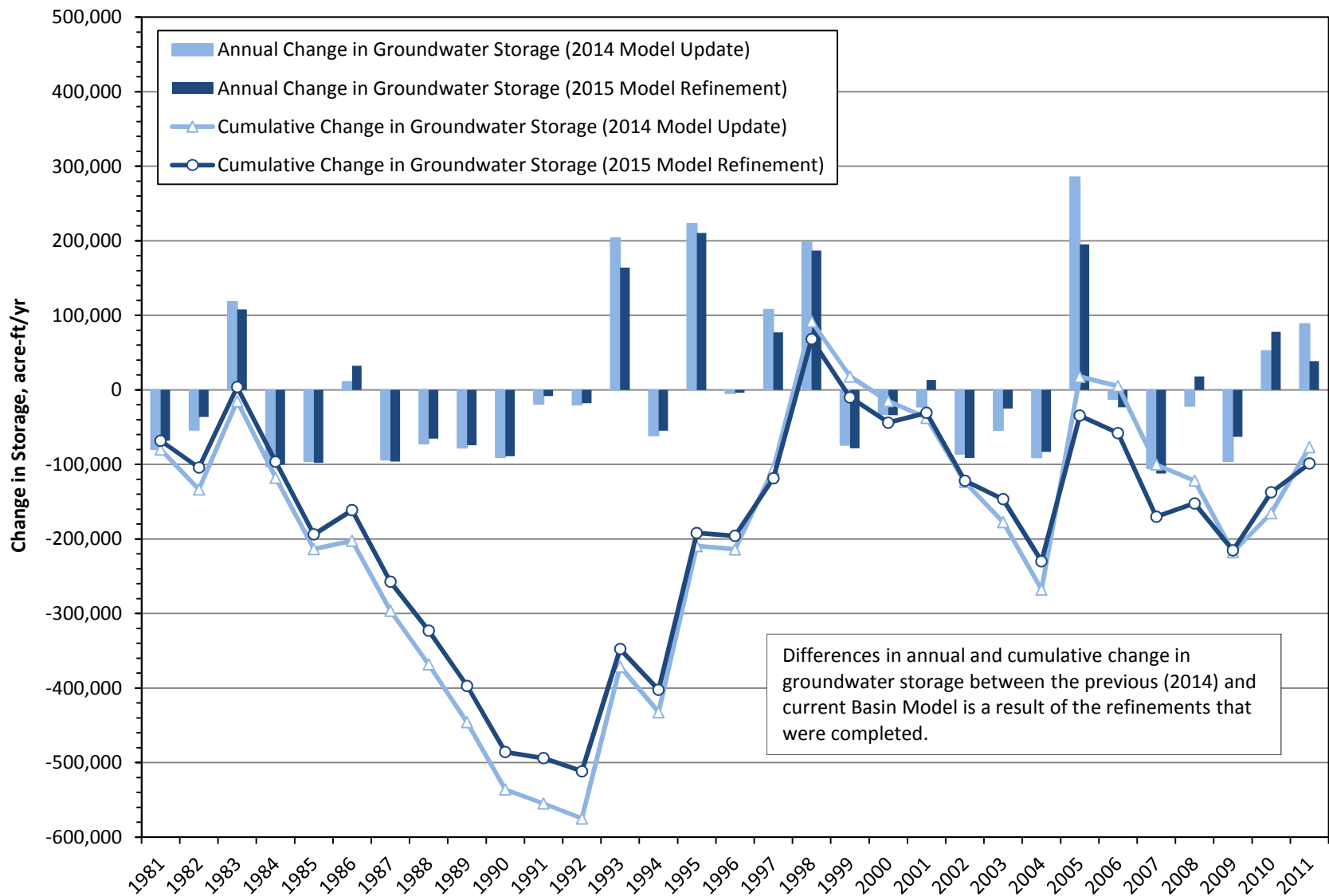
Units in Acre-Feet per Year

6-Dec-16

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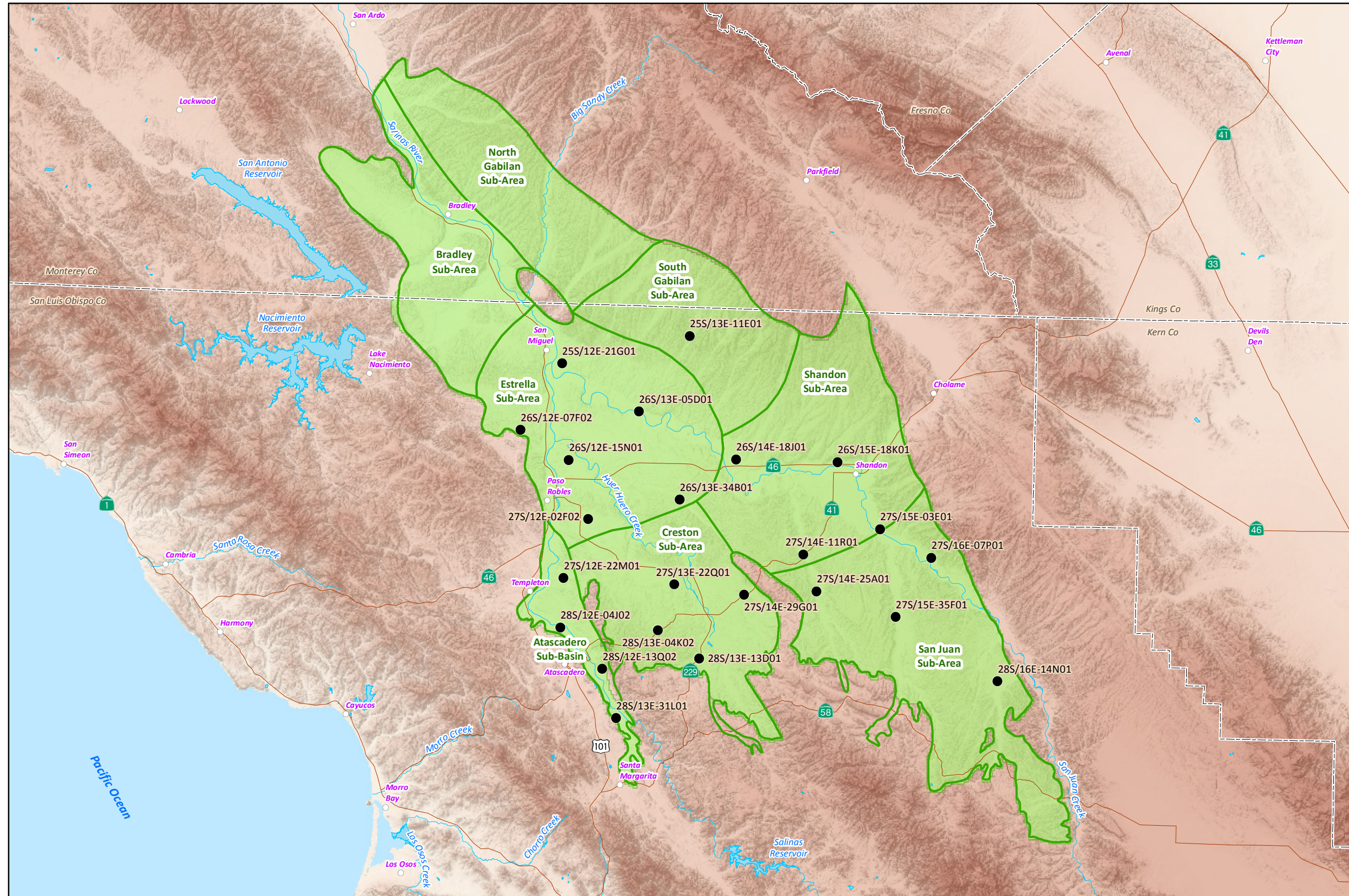
X:\Projects\County of San Luis Obispo\Paso Robles GW Basin Model Update\_2012\16\_Rpt-Refinement & WSO Study\01\Admin TM\figures\Fig\_30\_cal\_i\_wb.ai

**Comparison of Annual and Cumulative Change in Storage for  
 Paso Robles Groundwater Basin - 2014 Model Update Versus 2015 Model Refinement**



**Figure 31**





**LOCATION OF  
BASIN MANAGEMENT  
OBJECTIVES (BMO)  
TARGET WELLS**

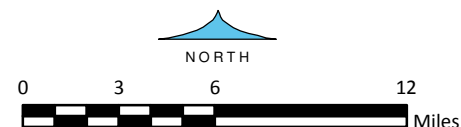
**EXPLANATION**

- BMO Target Well
- Paso Robles Groundwater Basin Model Active Area (Source: Fugro, ETIC Engineers and Cleath, 2005)
- Paso Robles Groundwater Basin with Sub-Area (Source: Fugro and Cleath, 2002)
- County Boundary

6-Dec-16

Prepared by: DB. Map Projection: State Plane 1983, Zone V.

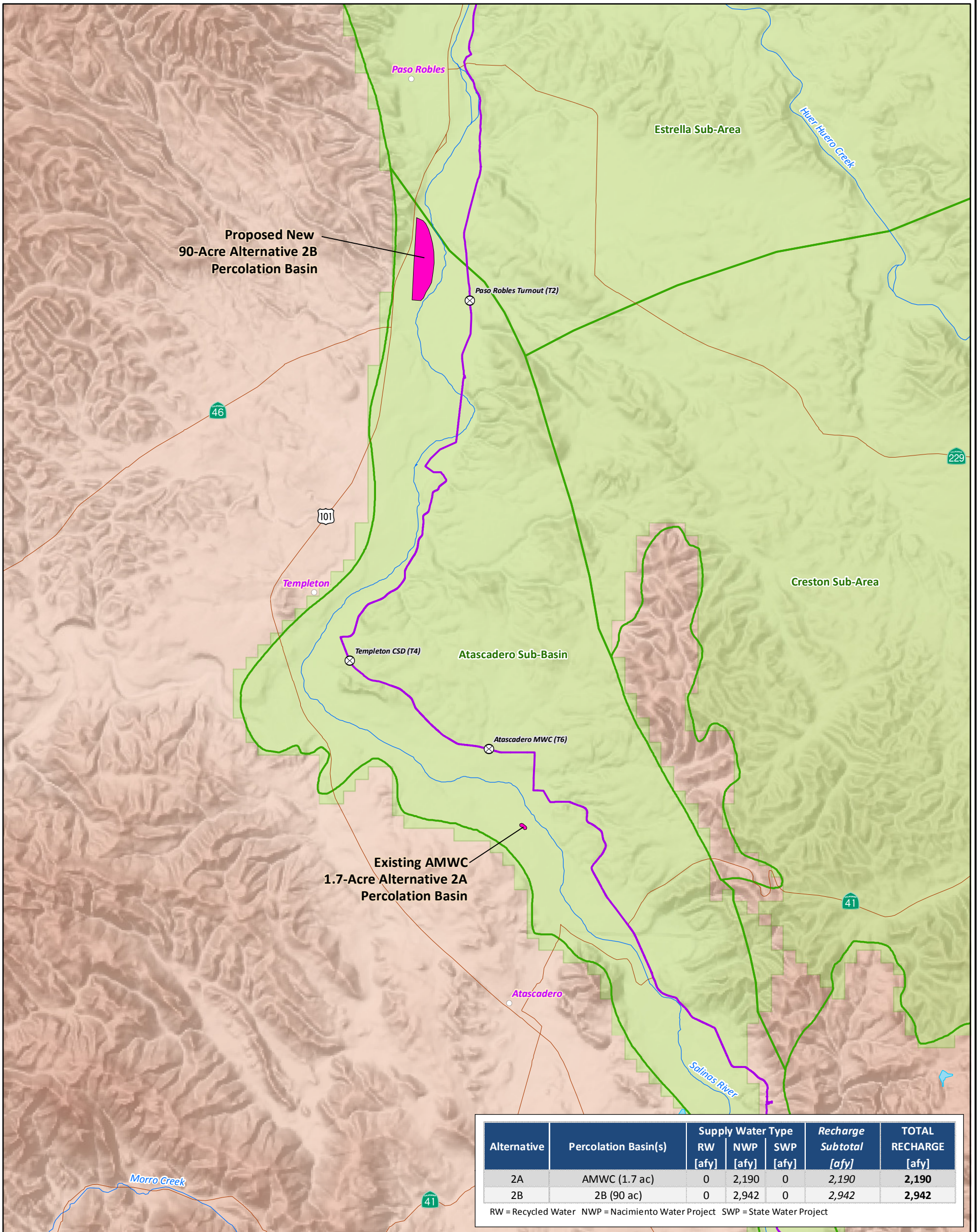
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**Figure 32**



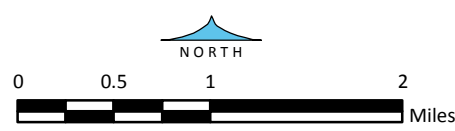
Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
2A	AMWC (1.7 ac)	0	2,190	0	2,190	2,190
2B	2B (90 ac)	0	2,942	0	2,942	2,942

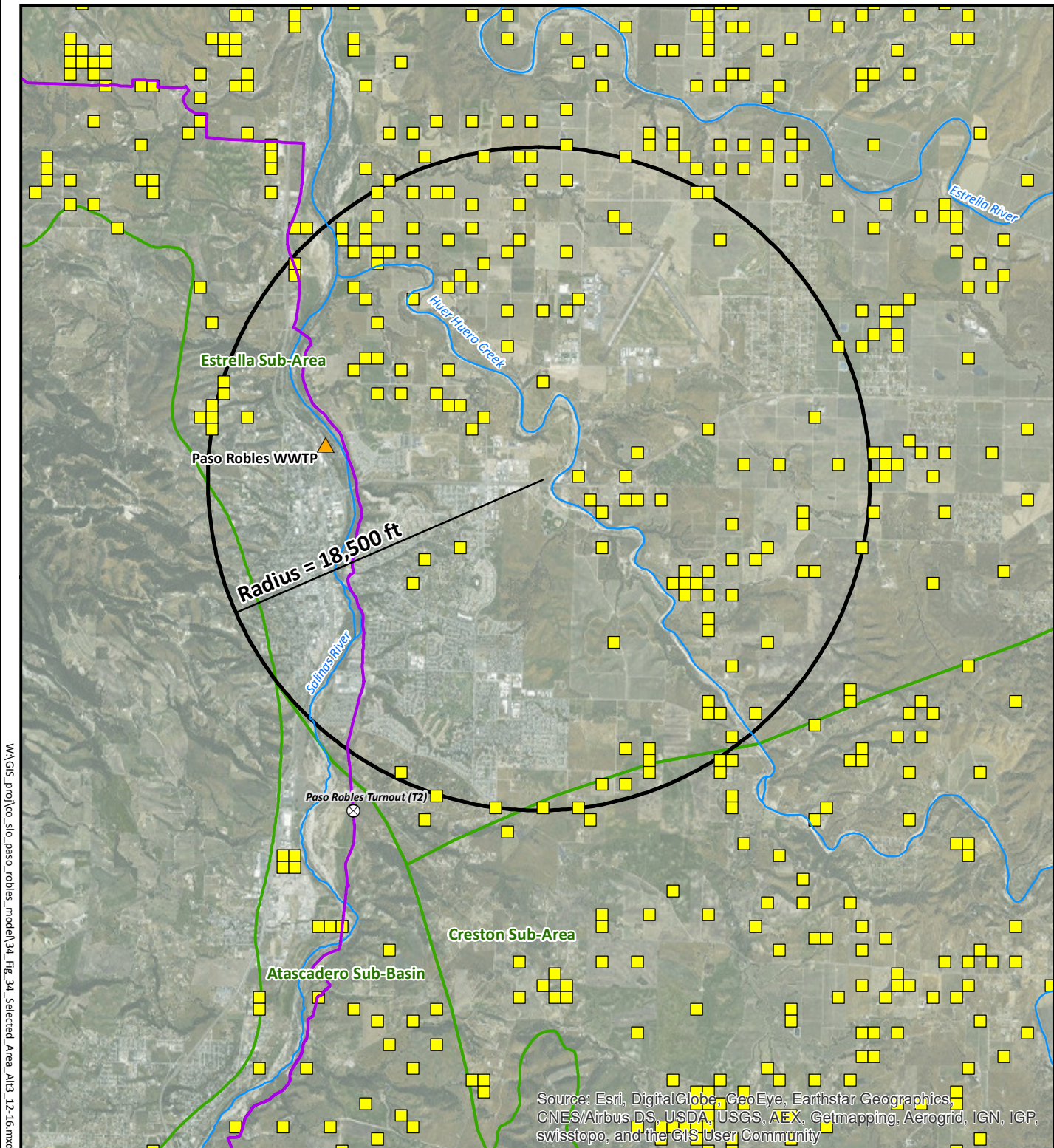
RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

W:\GIS\proj\co\_slo\_paso\_robles\_model\34\_fig\_33\_loc\_A12\_Salinas\_rech\_portrait\_12-16.mxd

- Model Cell Used to Simulate Percolation Basin
- Paso Robles Groundwater Basin Model Active Area (Source: Fugro, ETIC Engineers and Cleath, 2005)
- Nacimiento Water Project Pipeline
- Paso Robles Groundwater Basin with Sub-Area (Source: Fugro and Cleath, 2002)
- X Nacimiento Water Project Turnout

**LOCATION OF ALTERNATIVE 2 SALINAS RIVER PERCOLATION BASINS**





W:\GIS\_proj\loc\_sio\_paso\_robles\_model\34\_Fig\_34\_Selected\_Area\_A13\_12-16.mxd

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

**EXPLANATION**

- Agricultural Pumping Model Cell
- Paso Robles WWTP
- Selected Area to Offset Agricultural Pumping
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- X Nacimiento Water Project Turnout
- Alternative 3: Offset Agricultural Groundwater Pumping with Recycled Water.

**SELECTED AREA TO OFFSET AGRICULTURAL PUMPING (ALTERNATIVE 3)**

6-Dec-16

Prepared by: DB. Map Projection: State Plane 1983, Zone V.

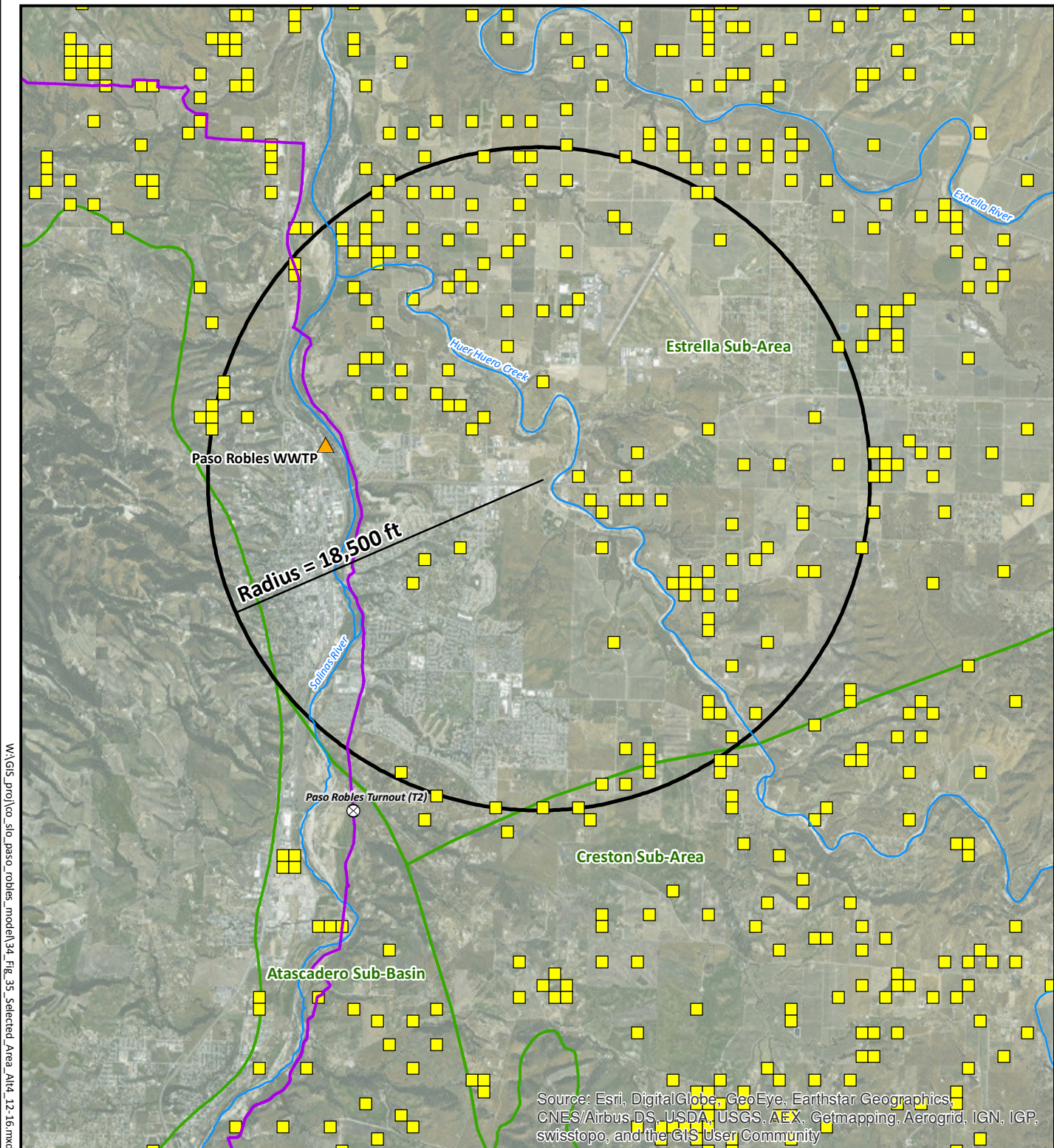
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**Figure 34**



W:\GIS\_proj\coo\_sio\_paso\_robles\_model\34\_Fig\_35\_Selected\_Area\_Alt4\_12-16.mxd

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

**EXPLANATION**

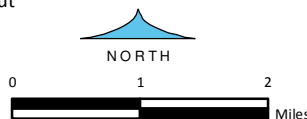
- |   |   |
|---|---|
| <span style="color: yellow;">■</span> Agricultural Pumping Model Cell   | <span style="color: green;">—</span> Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)   |
| <span style="color: orange;">▲</span> Paso Robles WWTP  | <span style="color: purple;">—</span> Nacimiento Water Project (NWP) Pipeline   |
| <span style="border: 1px solid black; border-radius: 50%; width: 15px; height: 15px; display: inline-block;"></span> Selected Area to Offset Agricultural Pumping | <span style="border: 1px solid black; border-radius: 50%; width: 10px; height: 10px; display: inline-block; text-align: center; vertical-align: middle;">⊗</span> NWP Turnout |

**SELECTED AREA TO OFFSET  
AGRICULTURAL PUMPING  
(ALTERNATIVES 4A AND 4B)**

6-Dec-16

Prepared by: DB. Map Projection: State Plane 1983, Zone V.

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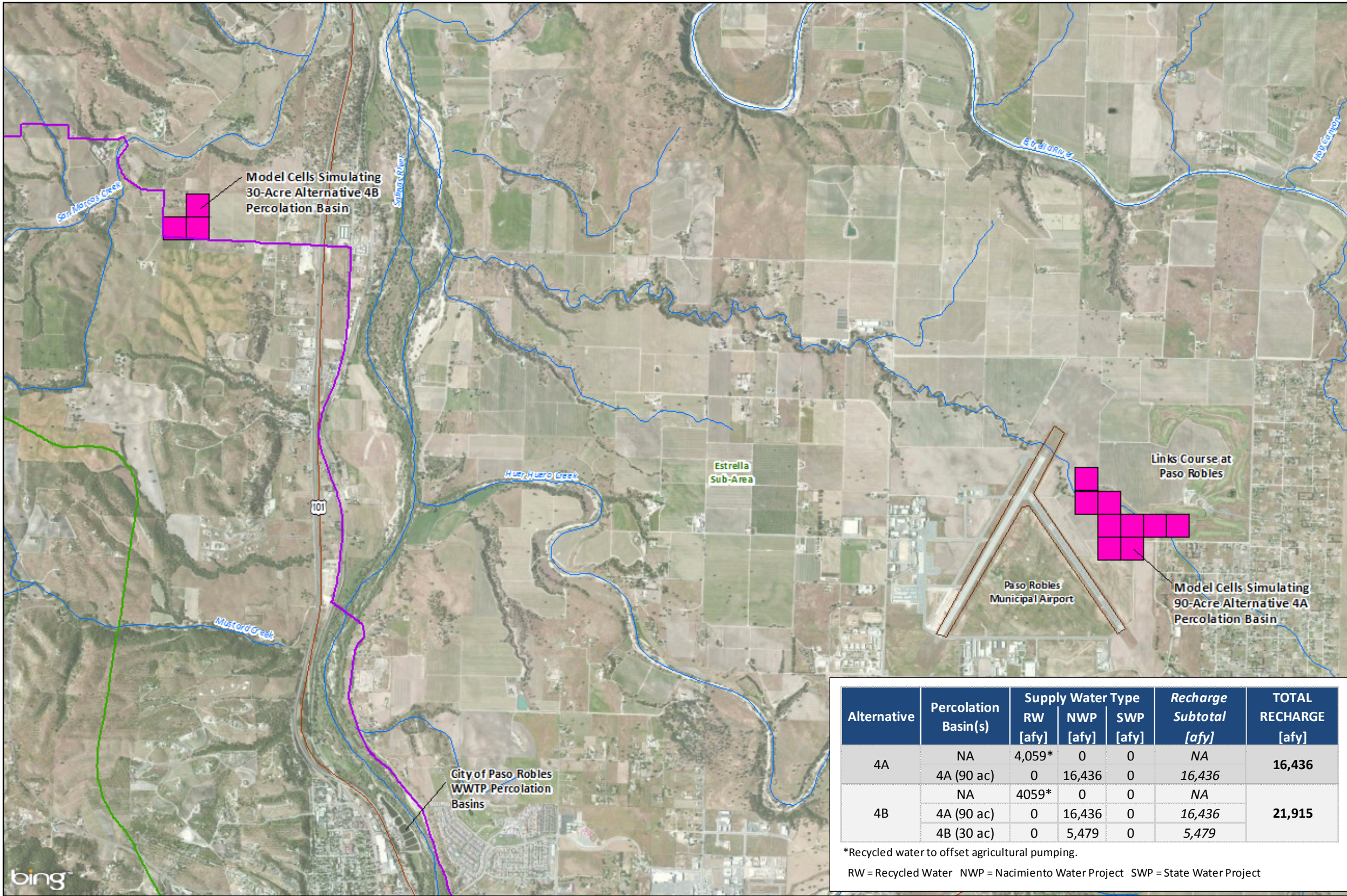


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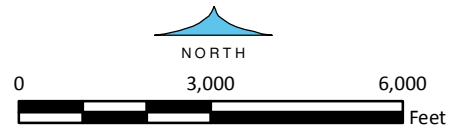
**Figure 35**

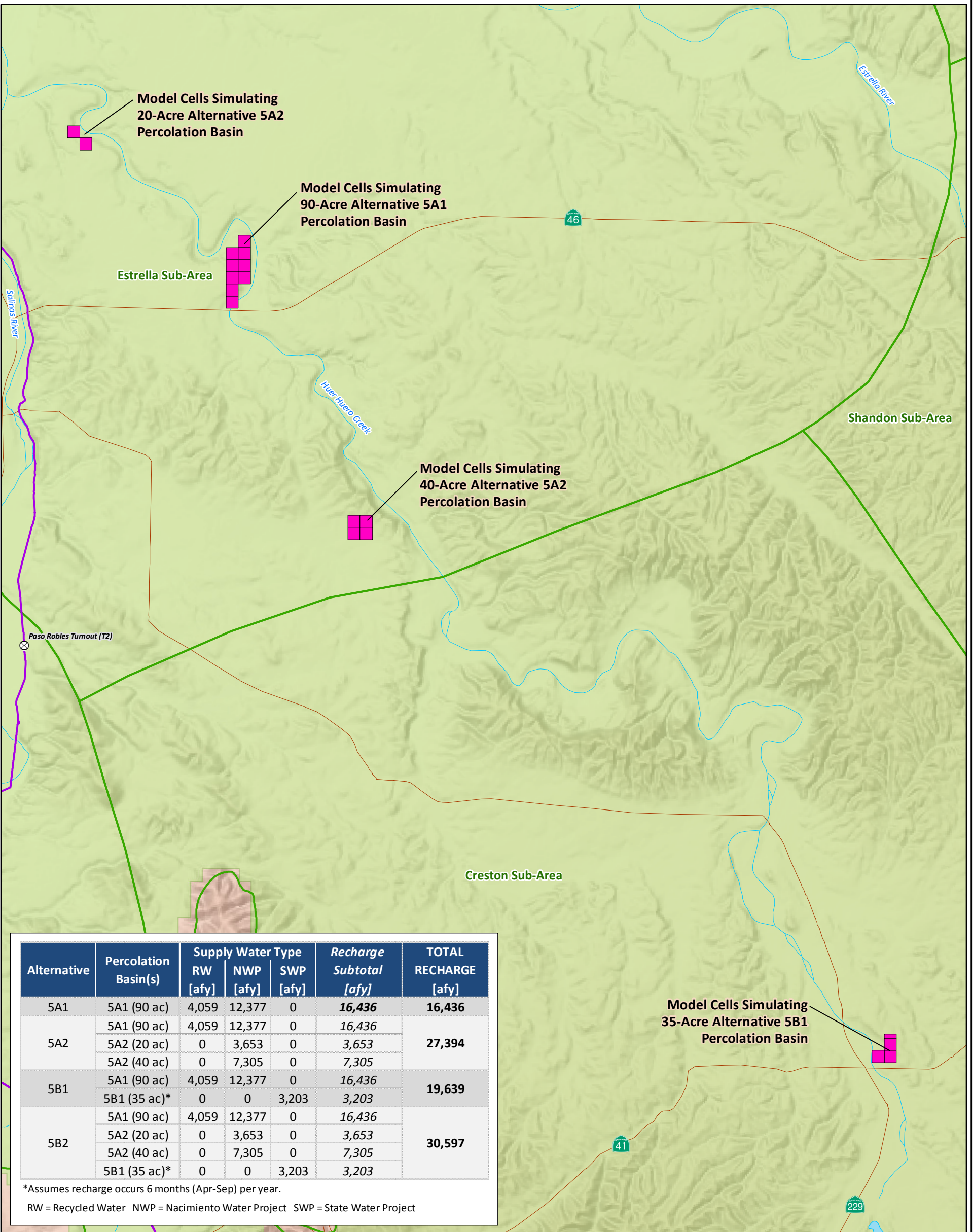
LOCATION OF ALTERNATIVE 4A AND 4B PERCOLATION BASINS



EXPLANATION

- Model Cell Used to Simulate Percolation Basin
- Nacimientto Water Project Pipeline
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)



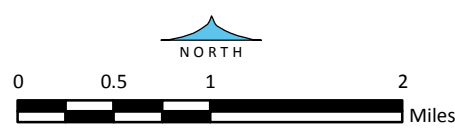


Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
5A1	5A1 (90 ac)	4,059	12,377	0	16,436	16,436
5A2	5A1 (90 ac)	4,059	12,377	0	16,436	
5A2	5A2 (20 ac)	0	3,653	0	3,653	27,394
	5A2 (40 ac)	0	7,305	0	7,305	
5B1	5A1 (90 ac)	4,059	12,377	0	16,436	19,639
	5B1 (35 ac)*	0	0	3,203	3,203	
5B2	5A1 (90 ac)	4,059	12,377	0	16,436	30,597
	5A2 (20 ac)	0	3,653	0	3,653	
	5A2 (40 ac)	0	7,305	0	7,305	
	5B1 (35 ac)*	0	0	3,203	3,203	

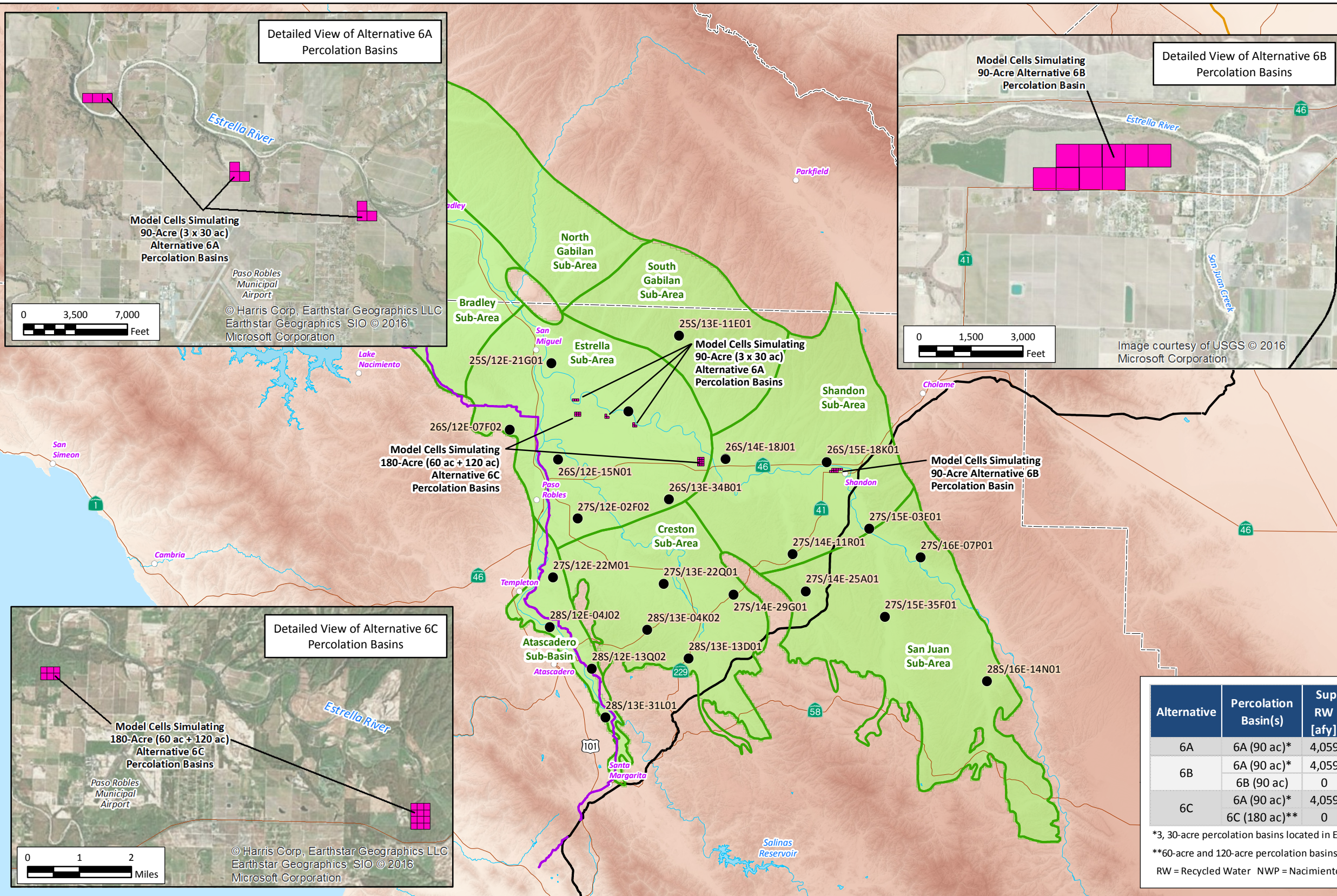
\*Assumes recharge occurs 6 months (Apr-Sep) per year.  
 RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

- Model Cell Used to Simulate Percolation Basin
- Nacimiento Water Project Pipeline
- ⊗ Nacimiento Water Project Turnout
- Paso Robles Groundwater Basin Model Active Area (Source: Fugro, ETIC Engineers and Cleath, 2005)
- Paso Robles Groundwater Basin with Sub-Area (Source: Fugro and Cleath, 2002)

**LOCATION OF ALTERNATIVES 5A1, 5A2, 5B1 AND 5B2 PERCOLATION BASINS**



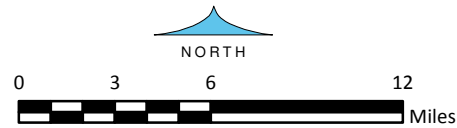
LOCATION OF ALTERNATIVES 6A, 6B AND 6C PERCOLATION BASINS

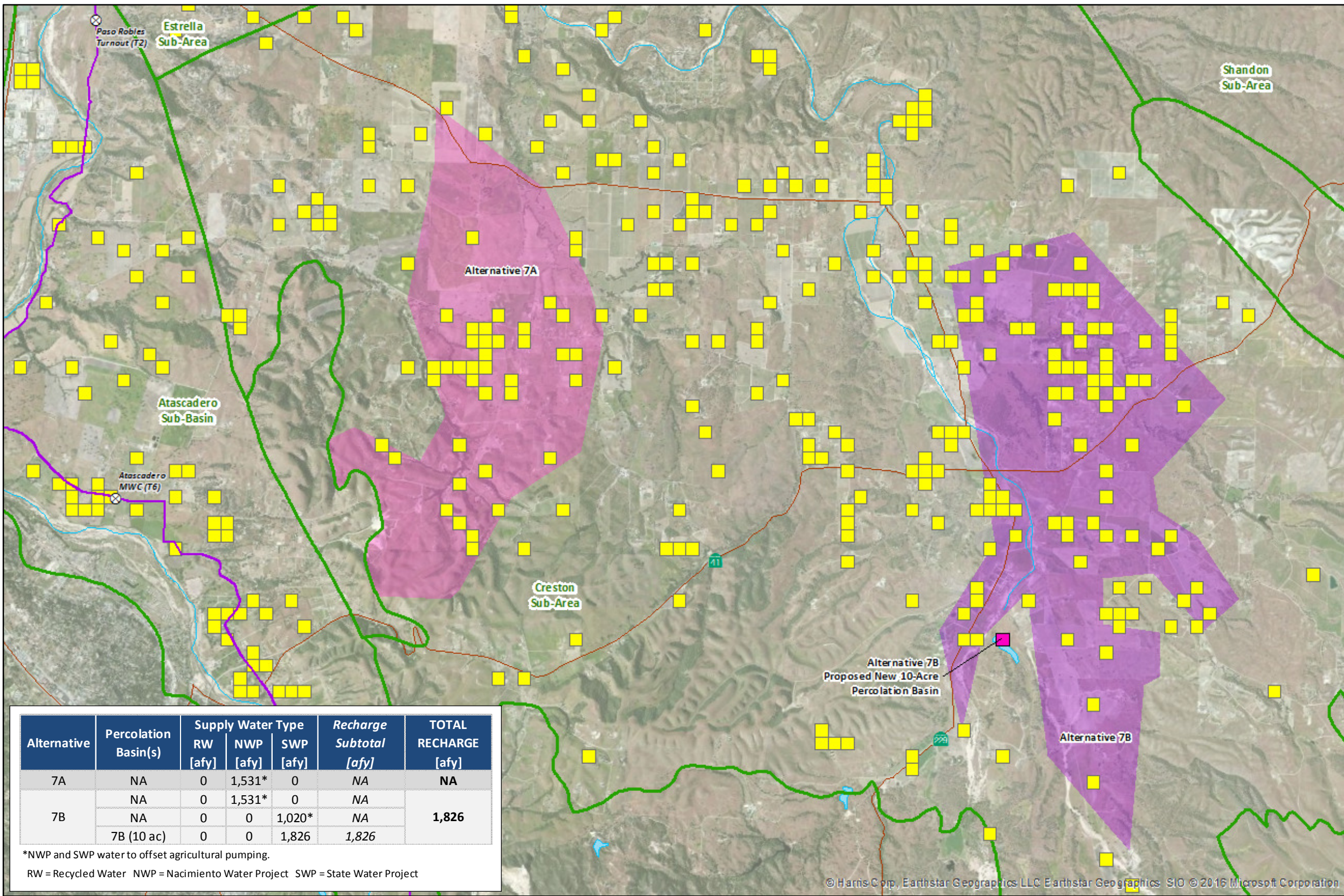


- EXPLANATION**
- BMO Target Well
  - Model Cell Used to Simulate Percolation Basin
  - California Aqueduct
  - Coastal Branch of the State Water Project Pipeline
  - Nacimiento Water Project Pipeline
  - Paso Robles Groundwater Basin Model Active Area (Source: Fugro, ETIC Engineers and Cleath, 2005)
  - Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
  - County Boundary

Alternative	Percolation Basin(s)	Supply Water Type	Recharge Subtotal	TOTAL RECHARGE	
		RW [afy]	NWP [afy]	SWP [afy]	[afy]
6A	6A (90 ac)*	4,059	12,377	0	16,436
6B	6A (90 ac)*	4,059	12,377	0	16,436
	6B (90 ac)	0	0	16,436	16,436
6C	6A (90 ac)*	4,059	12,377	0	16,436
	6C (180 ac)**	0	32,873	0	32,873
					<b>49,309</b>








\*3, 30-acre percolation basins located in Estrella Sub-Area  
 \*\*60-acre and 120-acre percolation basins located in Estrella Sub-Area  
 RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project





**SELECTED AREAS TO OFFSET AGRICULTURAL PUMPING (ALTERNATIVES 7A AND 7B) AND LOCATION OF ALTERNATIVE 7B PERCOLATION BASIN**

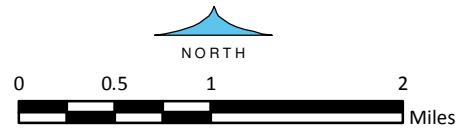
**EXPLANATION**

-  Selected Area to Offset Agricultural Pumping for Alternative 7A
-  Selected Area to Offset Agricultural Pumping for Alternative 7B
-  Alternative 7B Proposed New 10-Acre Percolation Basin
-  Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
-  Agricultural Pumping Cell
-  Nacimiento Water Project Pipeline
-  Nacimiento Water Project Turnout

Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
7A	NA	0	1,531*	0	NA	NA
	NA	0	1,531*	0	NA	
7B	NA	0	0	1,020*	NA	1,826
	7B (10 ac)	0	0	1,826	1,826	

\*NWP and SWP water to offset agricultural pumping.  
RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

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**Spring Water Surface Elevation (WSE) Trends - Updated Baseline (2012-2040)**  
**Estrella Sub-Area**

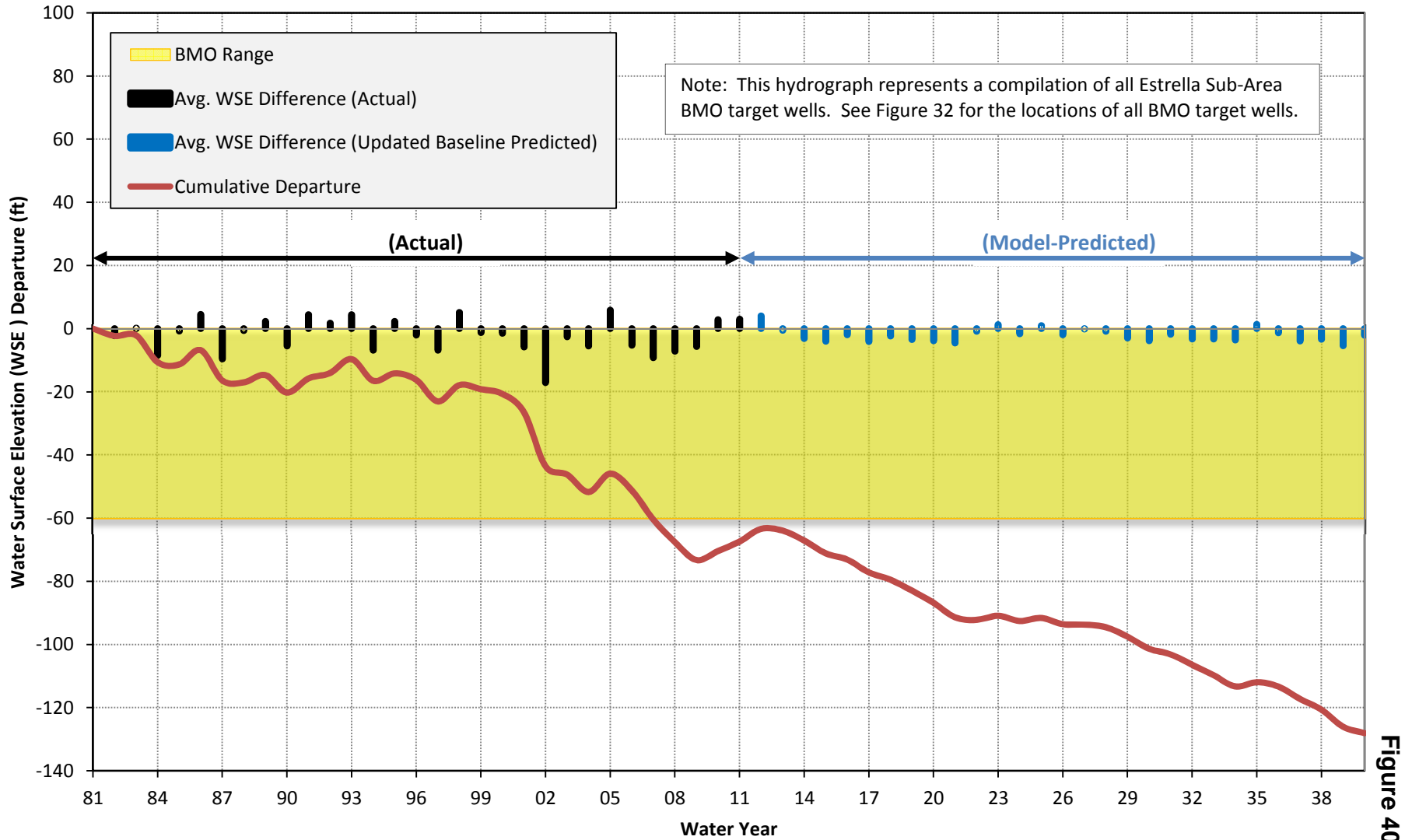


Figure 40

### Spring Water Surface Elevation (WSE) Trends - Updated Baseline (2012-2040) Atascadero Sub-Basin

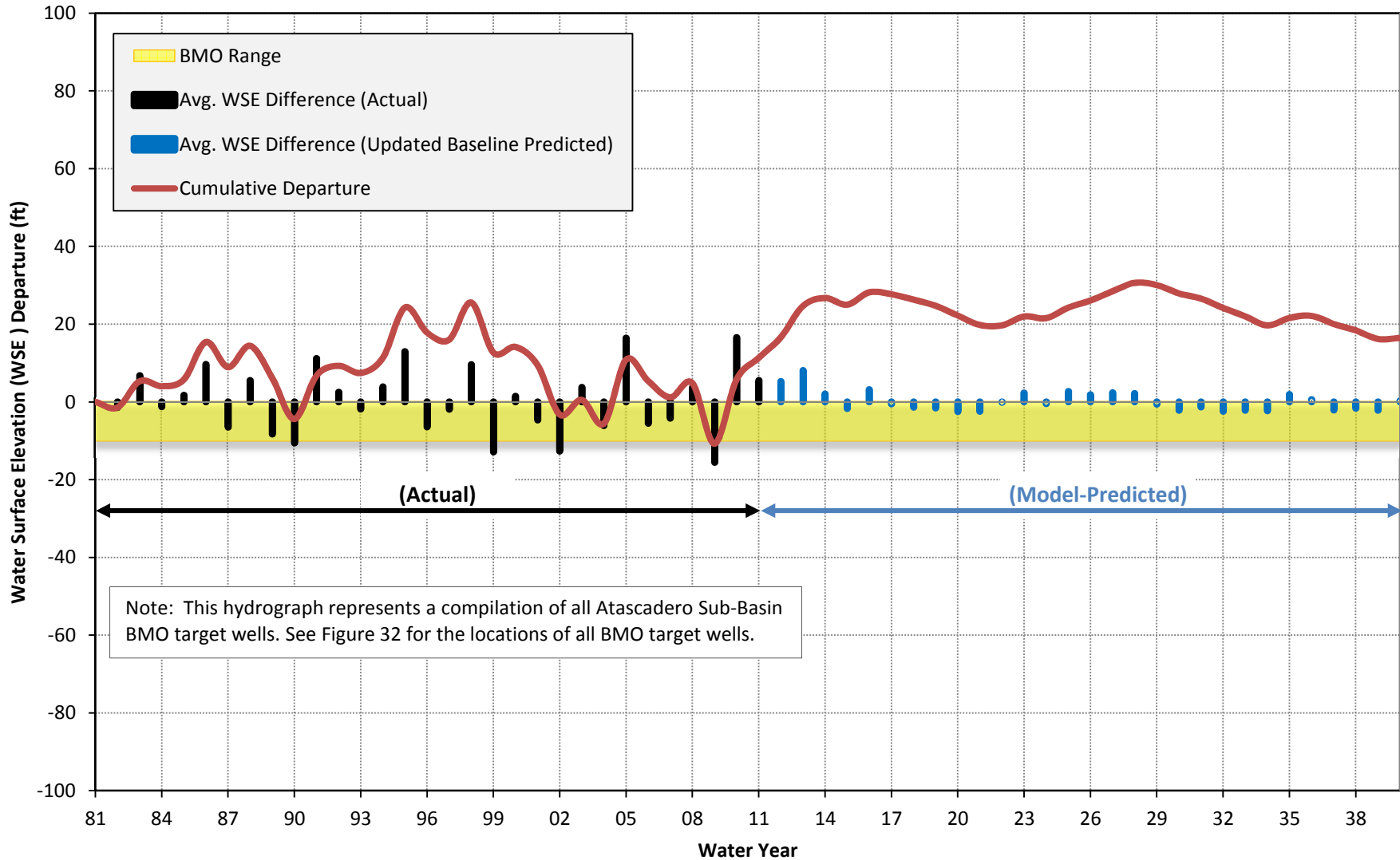


Figure 41

### Spring Water Surface Elevation (WSE) Trends - Updated Baseline (2012-2040) Creston Sub-Area

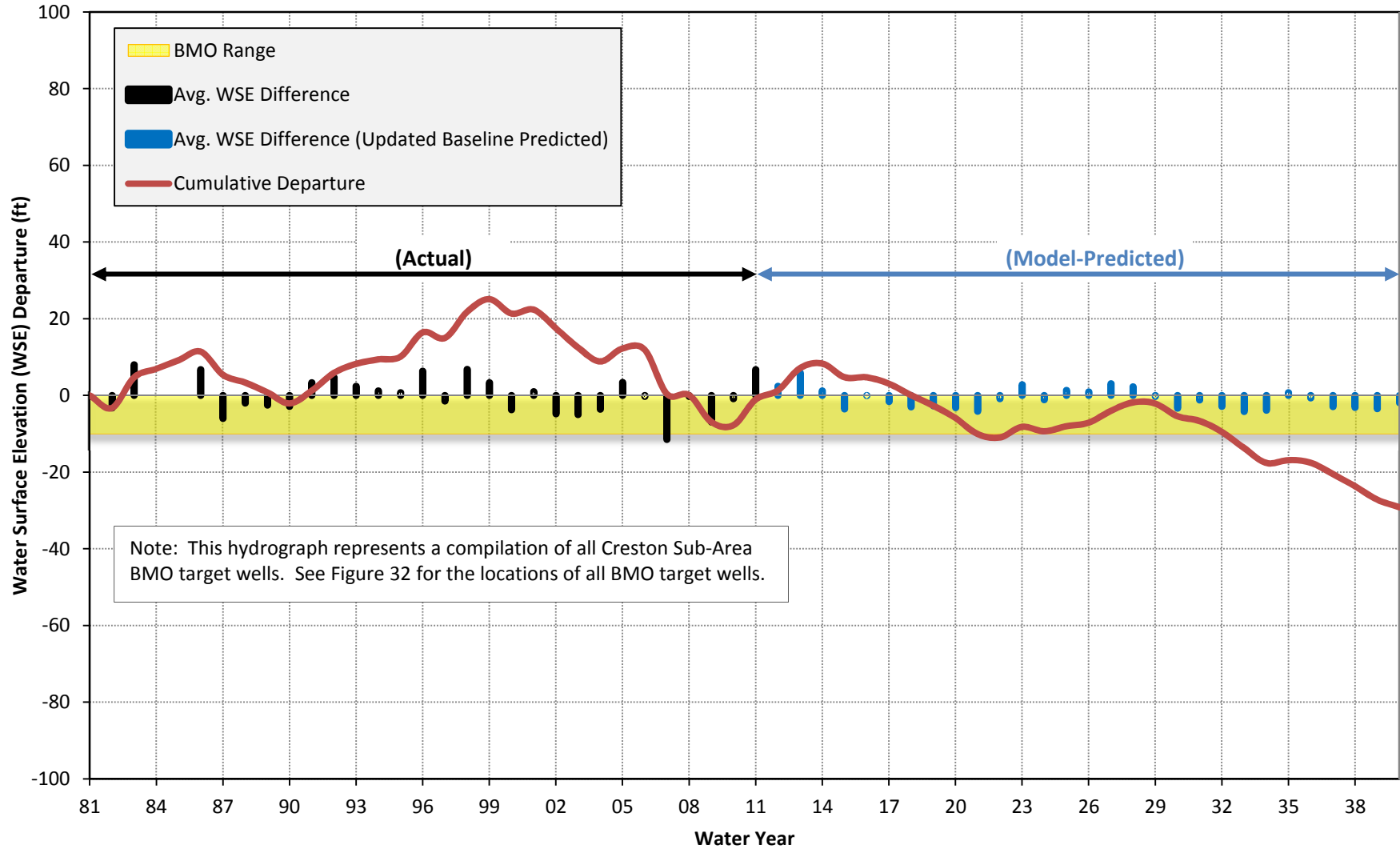


Figure 42

### Spring Water Surface Elevation (WSE) Trends - Updated Baseline (2012-2040) Shandon Sub-Area

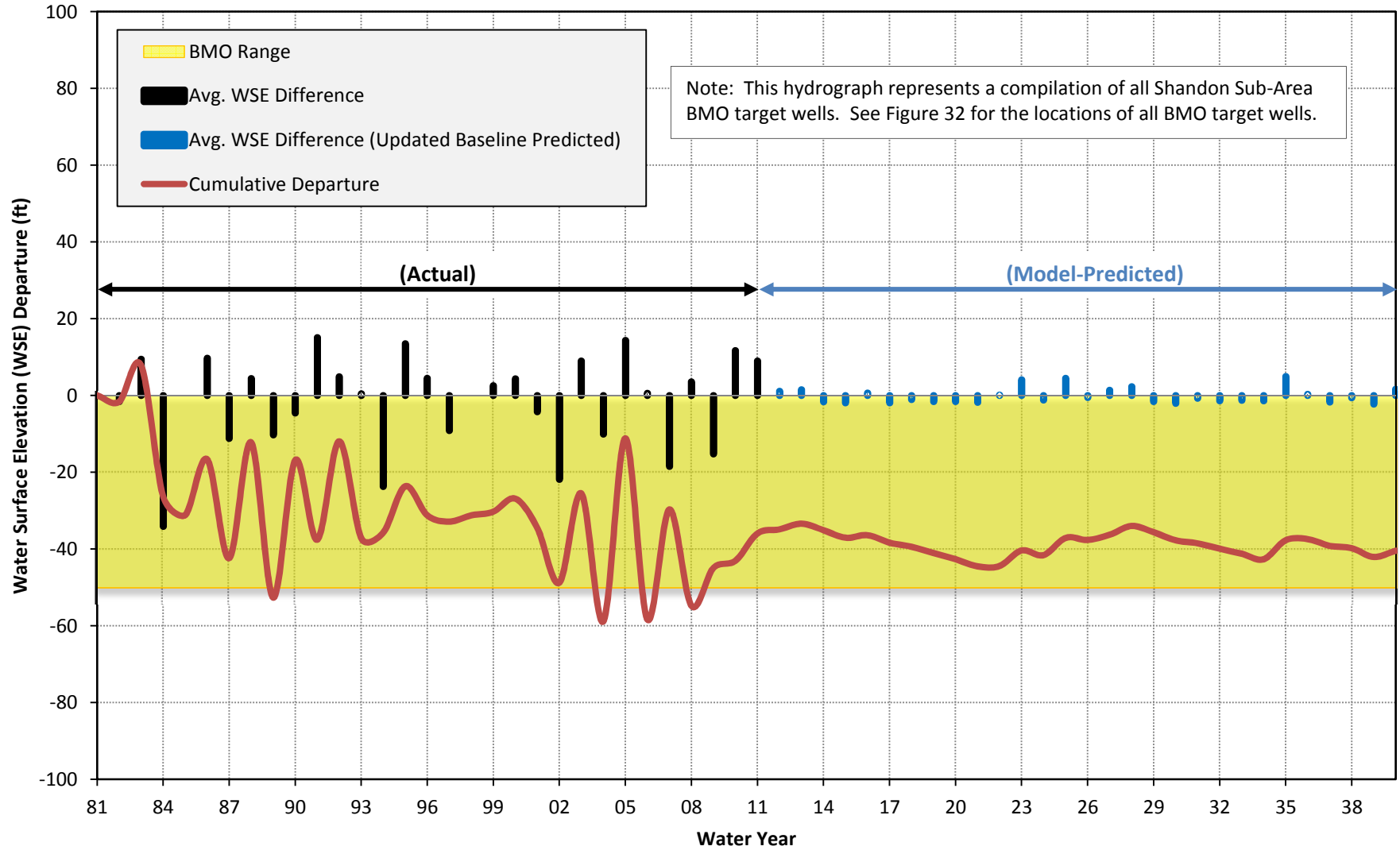


Figure 43

Spring Water Surface Elevation (WSE) Trends - Updated Baseline (2012-2040)  
 San Juan Sub-Area

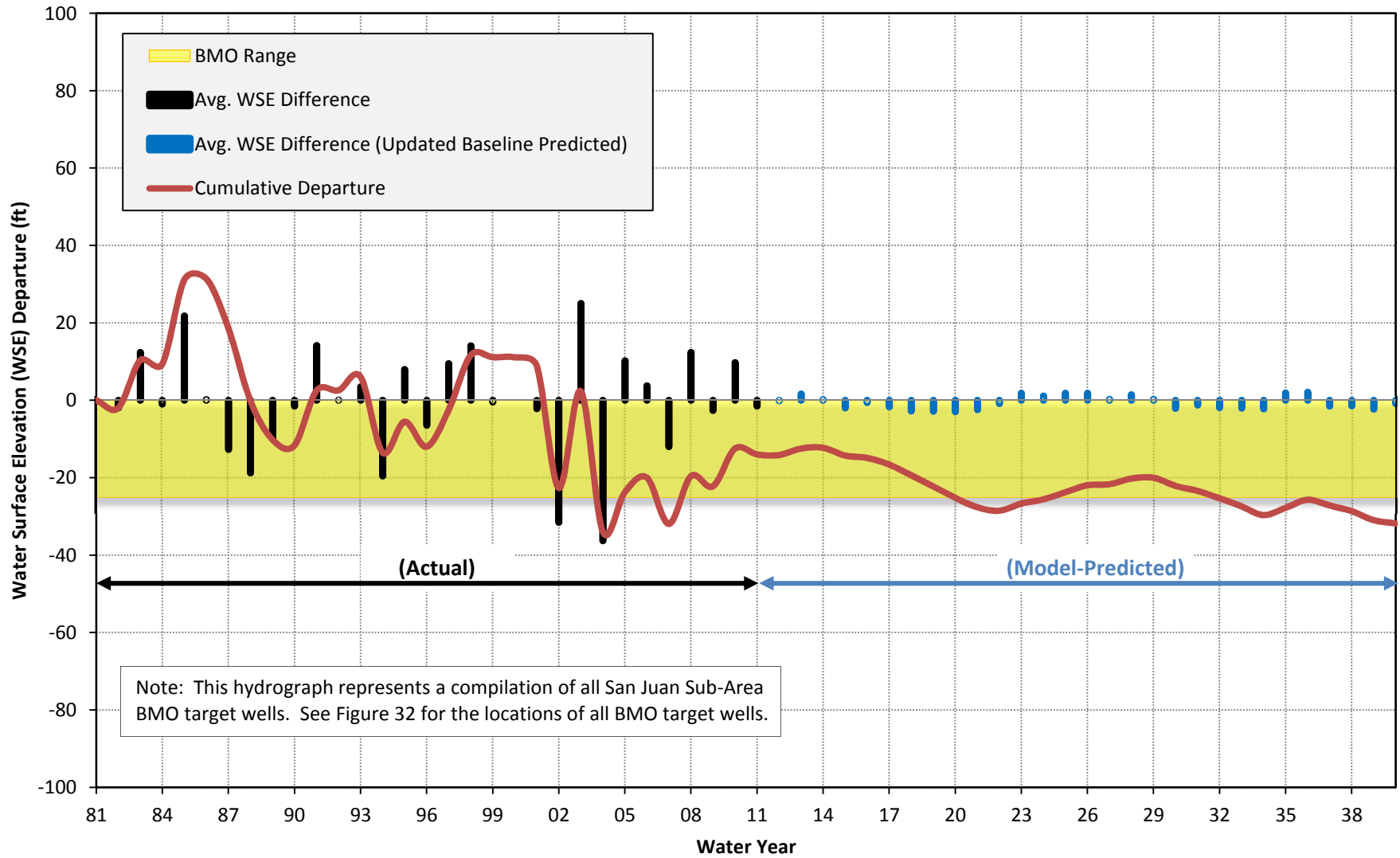


Figure 44

### Spring Water Surface Elevation (WSE) Trends - Alternative 1 (2012-2040) Estrella Sub-Area

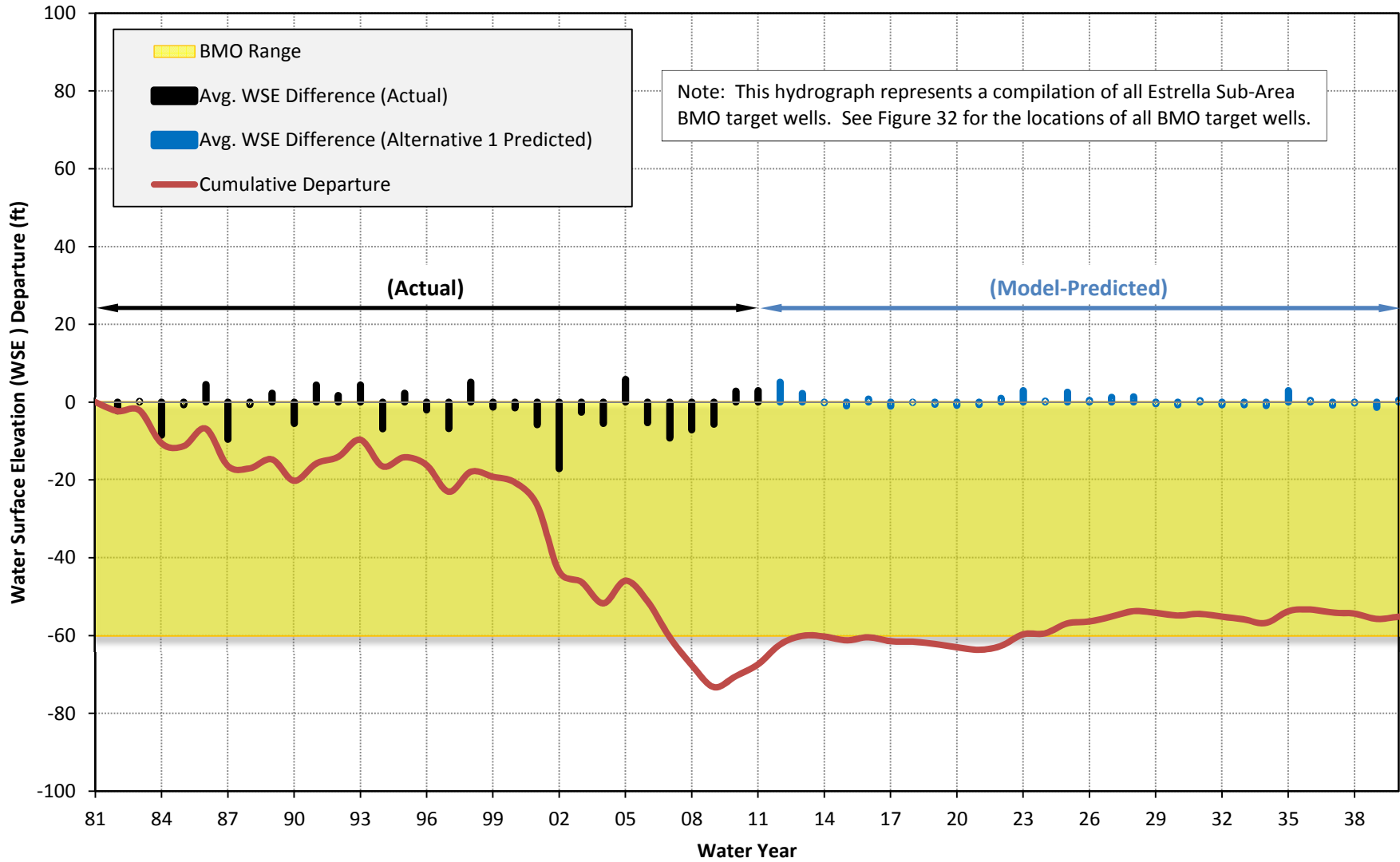


Figure 45

Spring Water Surface Elevation (WSE) Trends - Alternative 1 (2012-2040)  
 Atascadero Sub-Basin

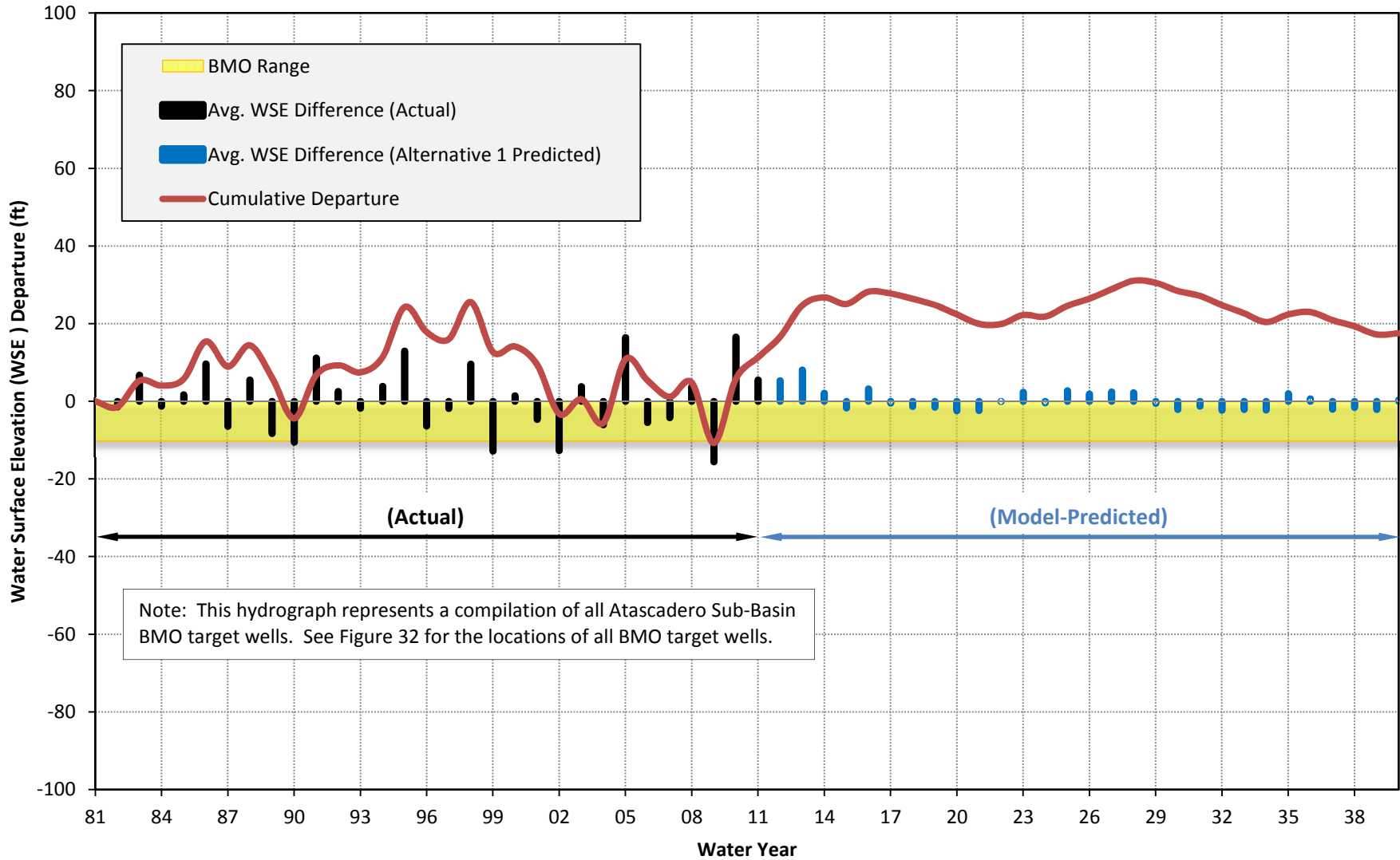


Figure 46

Spring Water Surface Elevation (WSE) Trends - Alternative 1 (2012-2040)  
 Creston Sub-Area

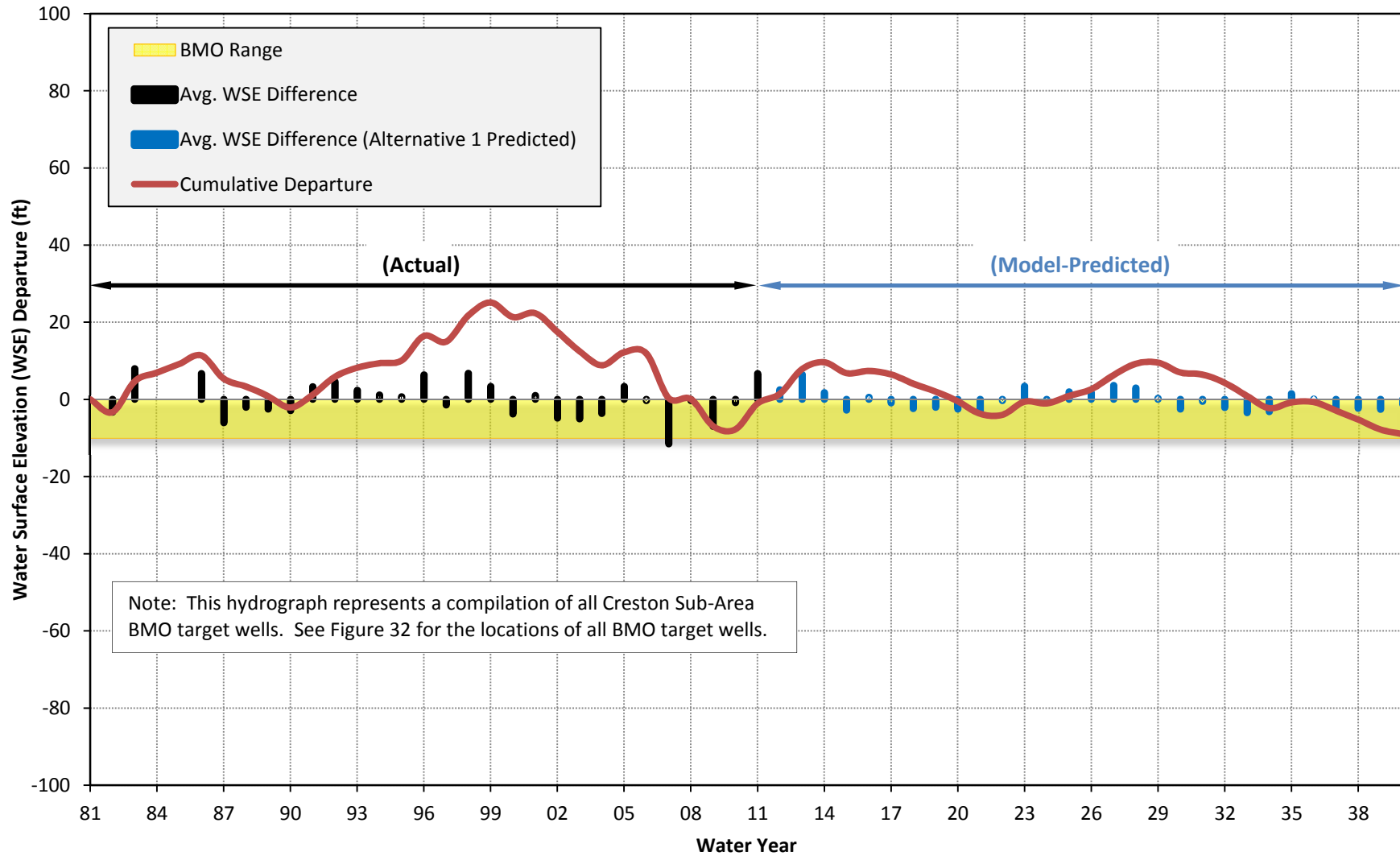


Figure 47



### Spring Water Surface Elevation (WSE) Trends - Alternative 1 (2012-2040) Shandon Sub-Area

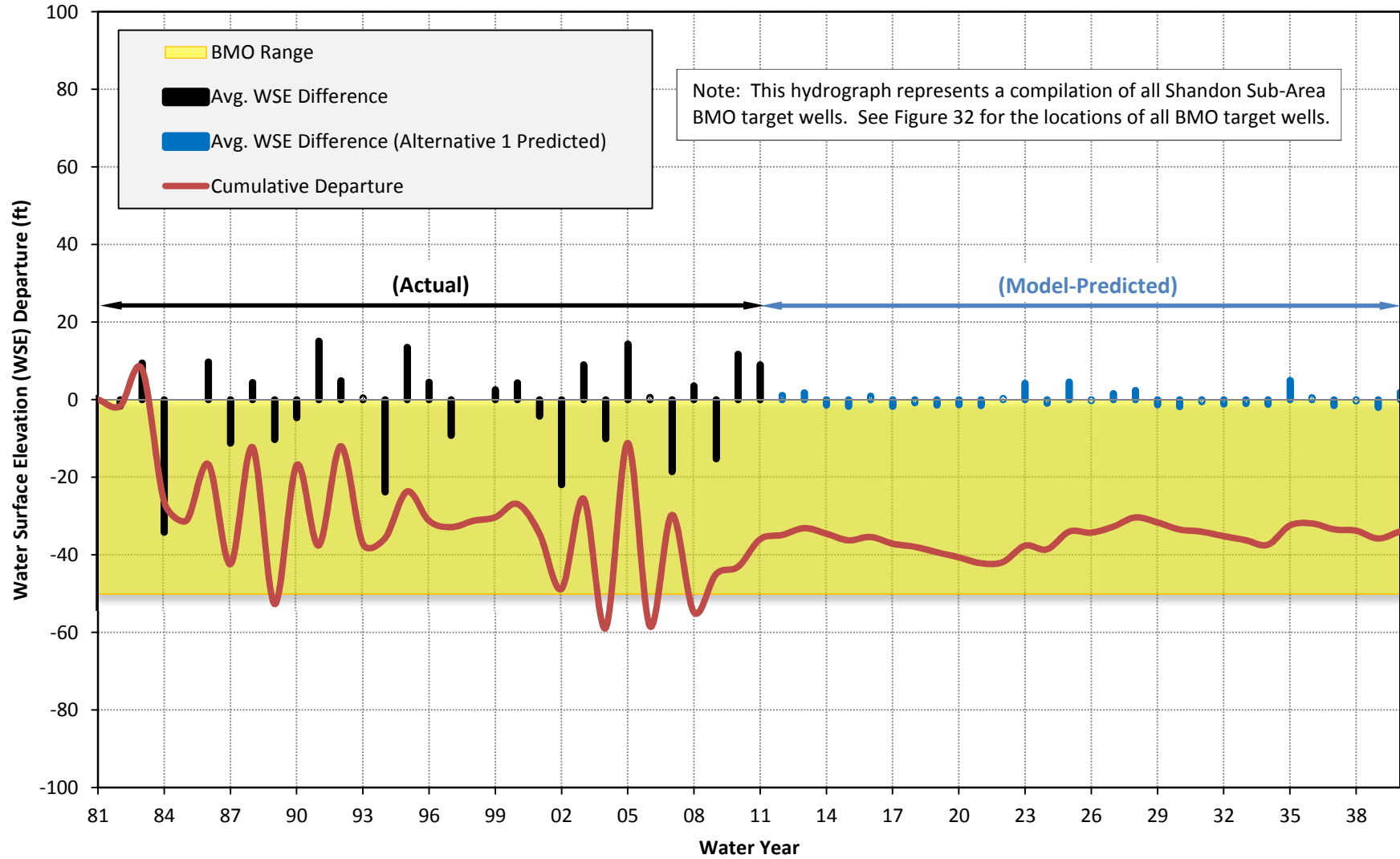


Figure 48

### Spring Water Surface Elevation (WSE) Trends - Alternative 1 (2012-2040) San Juan Sub-Area

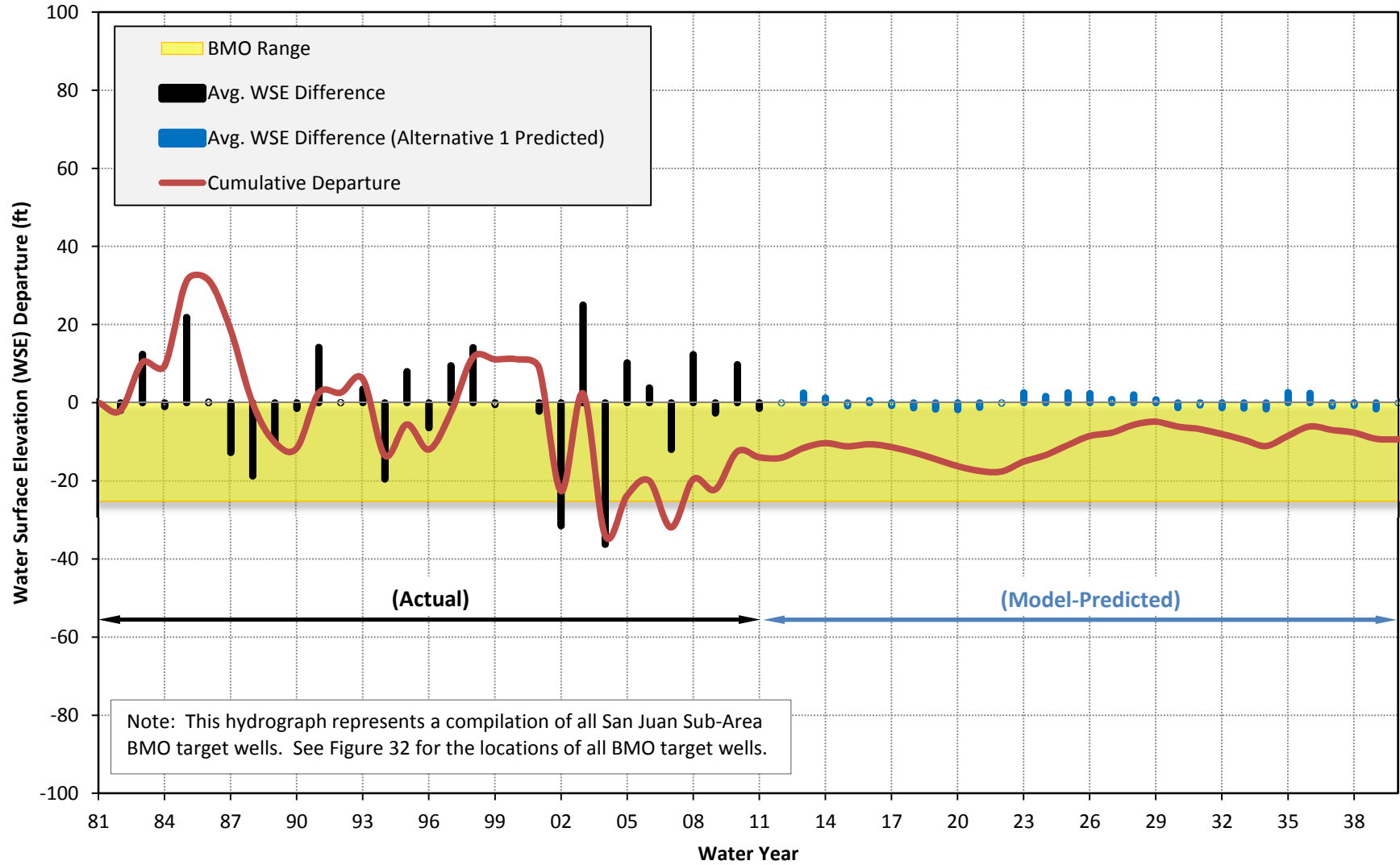
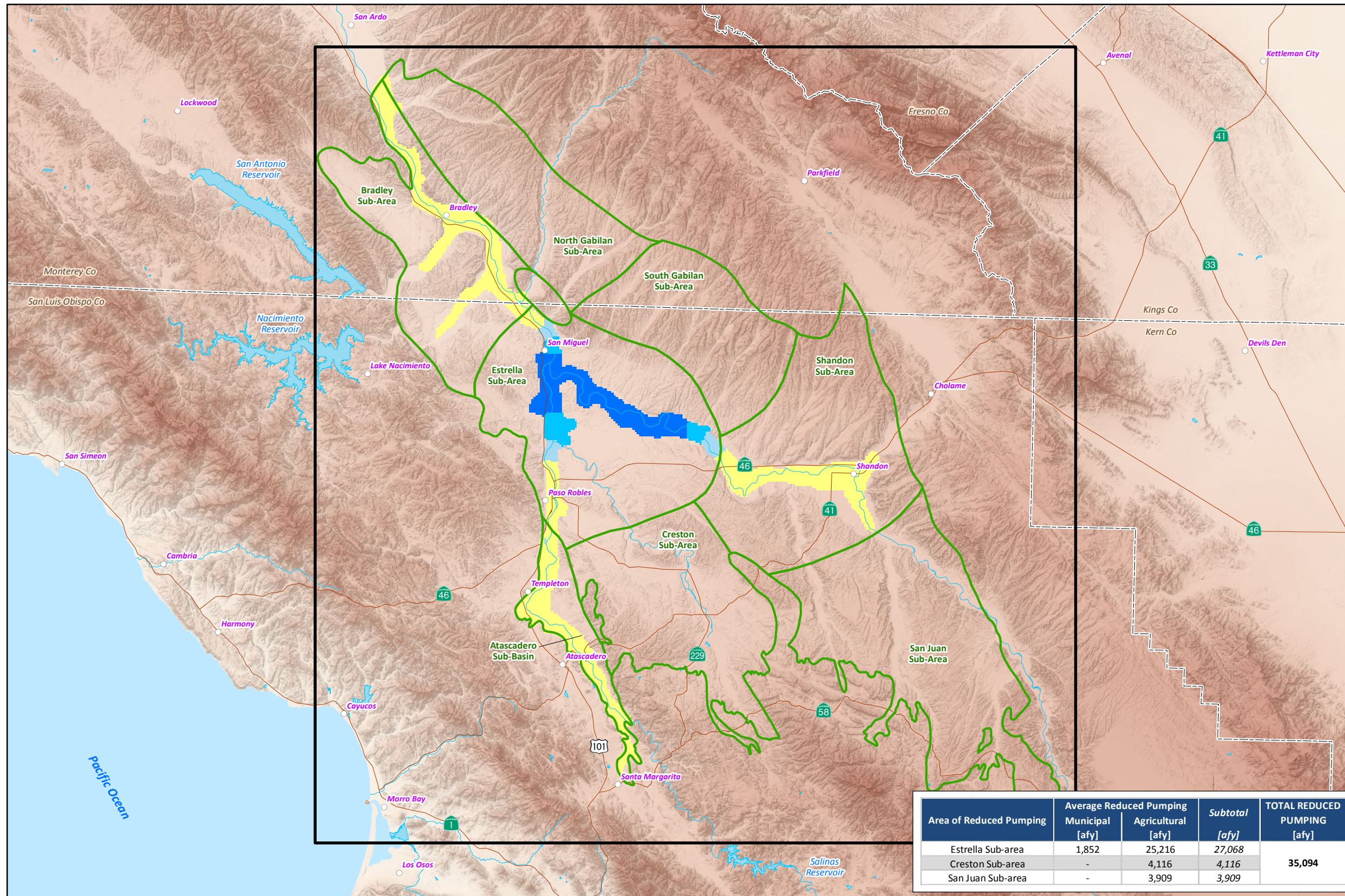


Figure 49



**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 1 AND UPDATED BASELINE (MODEL LAYER 1)**

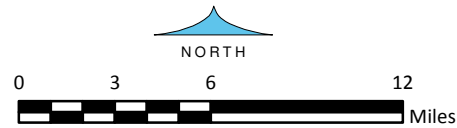
**EXPLANATION**

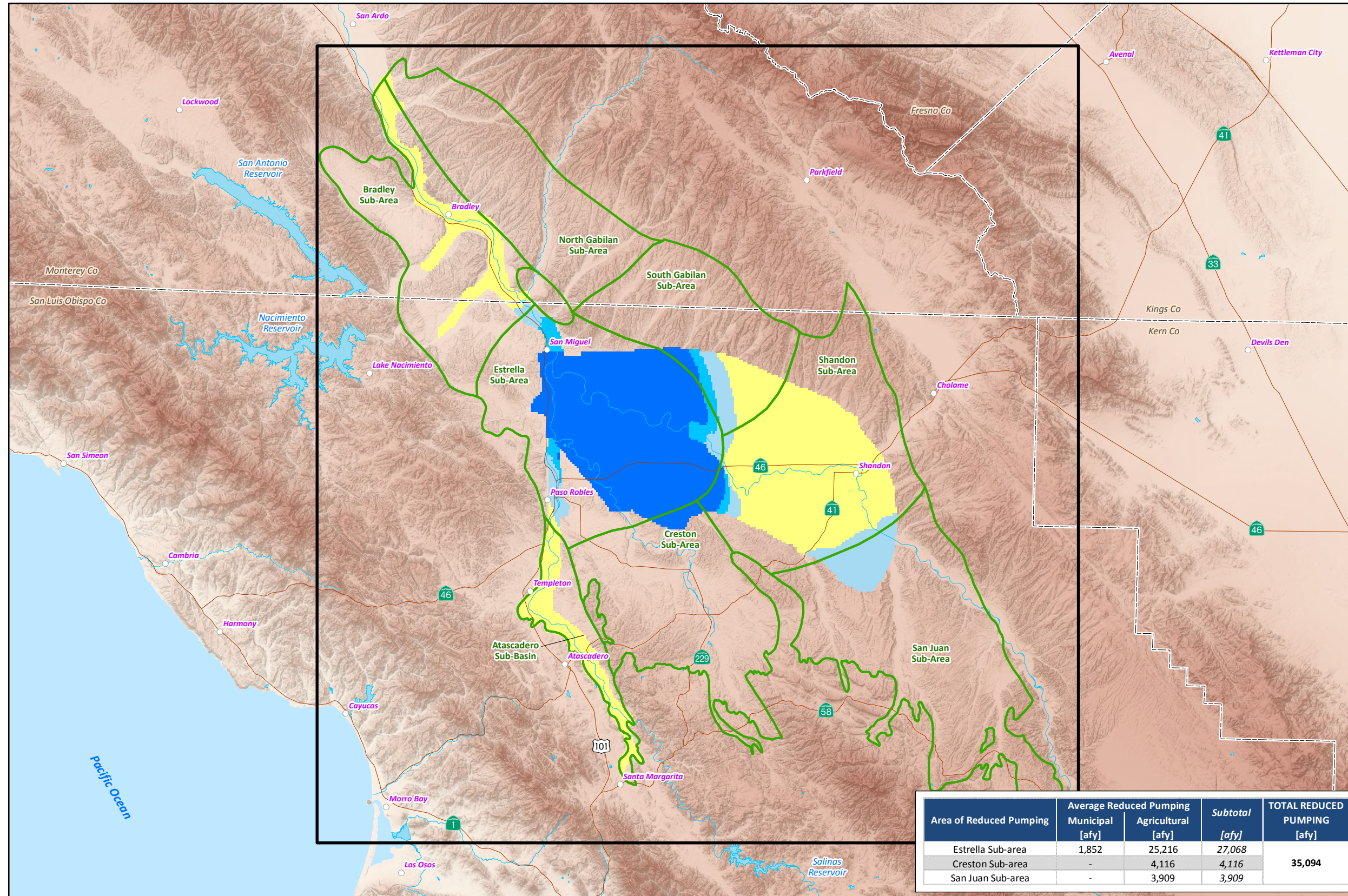
- Model-Predicted Changes in Groundwater Elevations (ft)
- More than -30 ft
  - 30 to -20 ft
  - 0 to 10 ft
  - 10 to 20 ft
  - 20 to 30 ft
  - More than 30 ft
  - 20 to -10 ft
  - 10 to 0 ft

- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin with Sub-Area (Source: Fugro and Cleath, 2002)
- County Boundary

Notes:  
Model Layer 1 represents recent alluvial deposits.

Area of Reduced Pumping	Average Reduced Pumping Municipal [afy]	Average Reduced Pumping Agricultural [afy]	Subtotal [afy]	TOTAL REDUCED PUMPING [afy]
Estrella Sub-area	1,852	25,216	27,068	<b>35,094</b>
Creston Sub-area	-	4,116	4,116	
San Juan Sub-area	-	3,909	3,909	





**MODEL-PREDICTED CHANGES  
IN GROUNDWATER ELEVATIONS  
BETWEEN ALTERNATIVE 1  
AND UPDATED BASELINE  
(MODEL LAYER 2)**

**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin with Sub-Area (Source: Fugro and Cleath, 2002)
- County Boundary

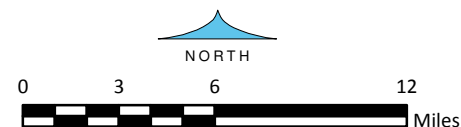
Notes:  
Model Layer 2 represents the upper portion of the Paso Robles Formation.

Area of Reduced Pumping	Average Reduced Pumping Municipal [afy]	Average Reduced Pumping Agricultural [afy]	Subtotal [afy]	TOTAL REDUCED PUMPING [afy]
Estrella Sub-area	1,852	25,216	27,068	35,094
Creston Sub-area	-	4,116	4,116	
San Juan Sub-area	-	3,909	3,909	

6-Dec-16

Prepared by: DB. Map Projection: State Plane 1983, Zone V.

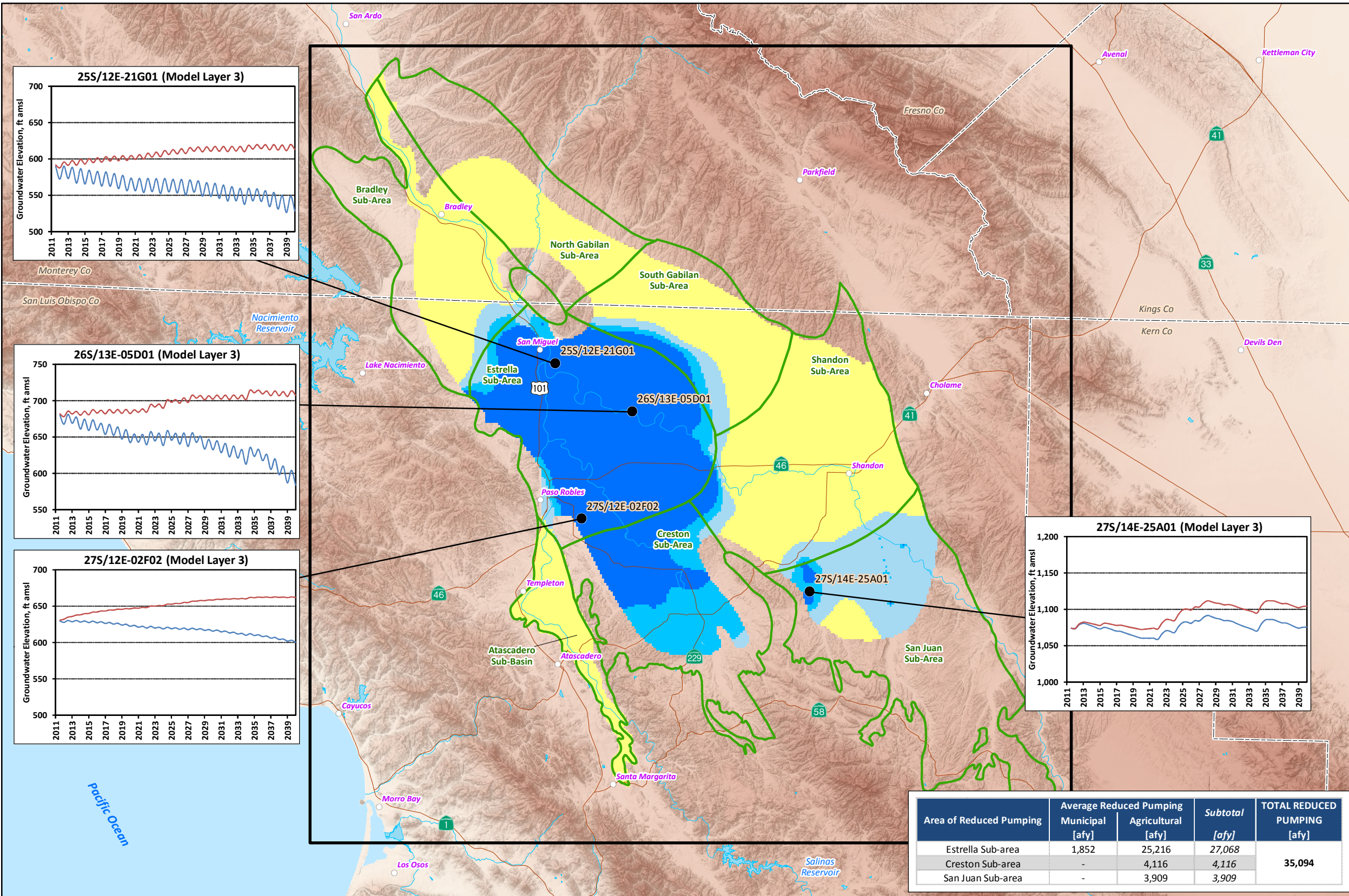
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**Figure 51**



**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 1 AND UPDATED BASELINE (MODEL LAYER 3)**

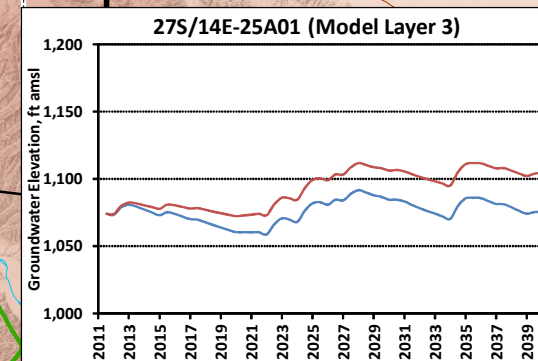
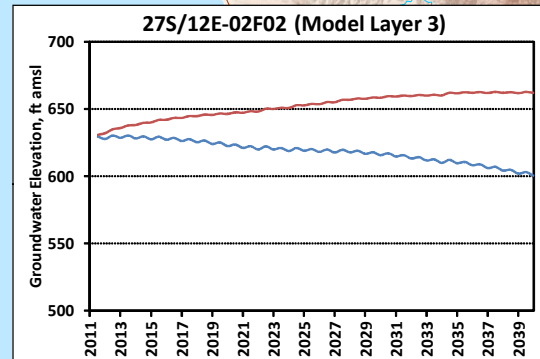
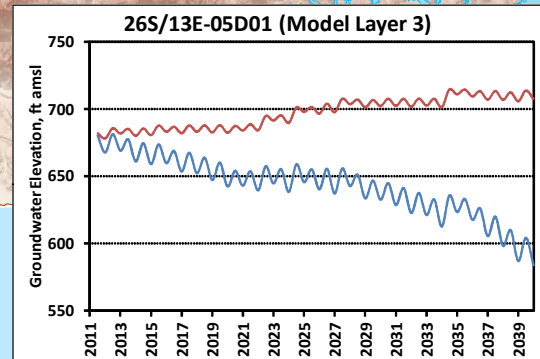
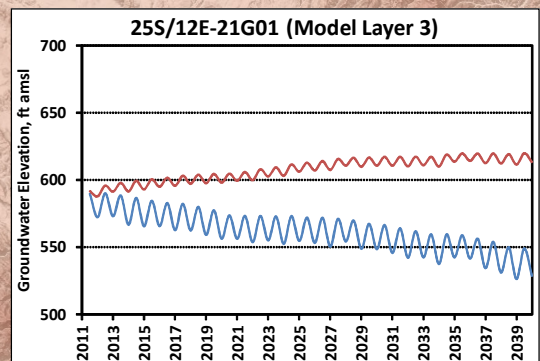
**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

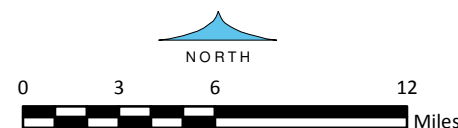
More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

- BMO Target Well
- Predicted Groundwater Elevation
  - Alternative
  - Updated Baseline
- ▭ Paso Robles Groundwater Basin Model Domain
- ▭ Paso Robles Groundwater Basin with Sub-Area (Source: Fugro and Cleath, 2002)
- - - County Boundary

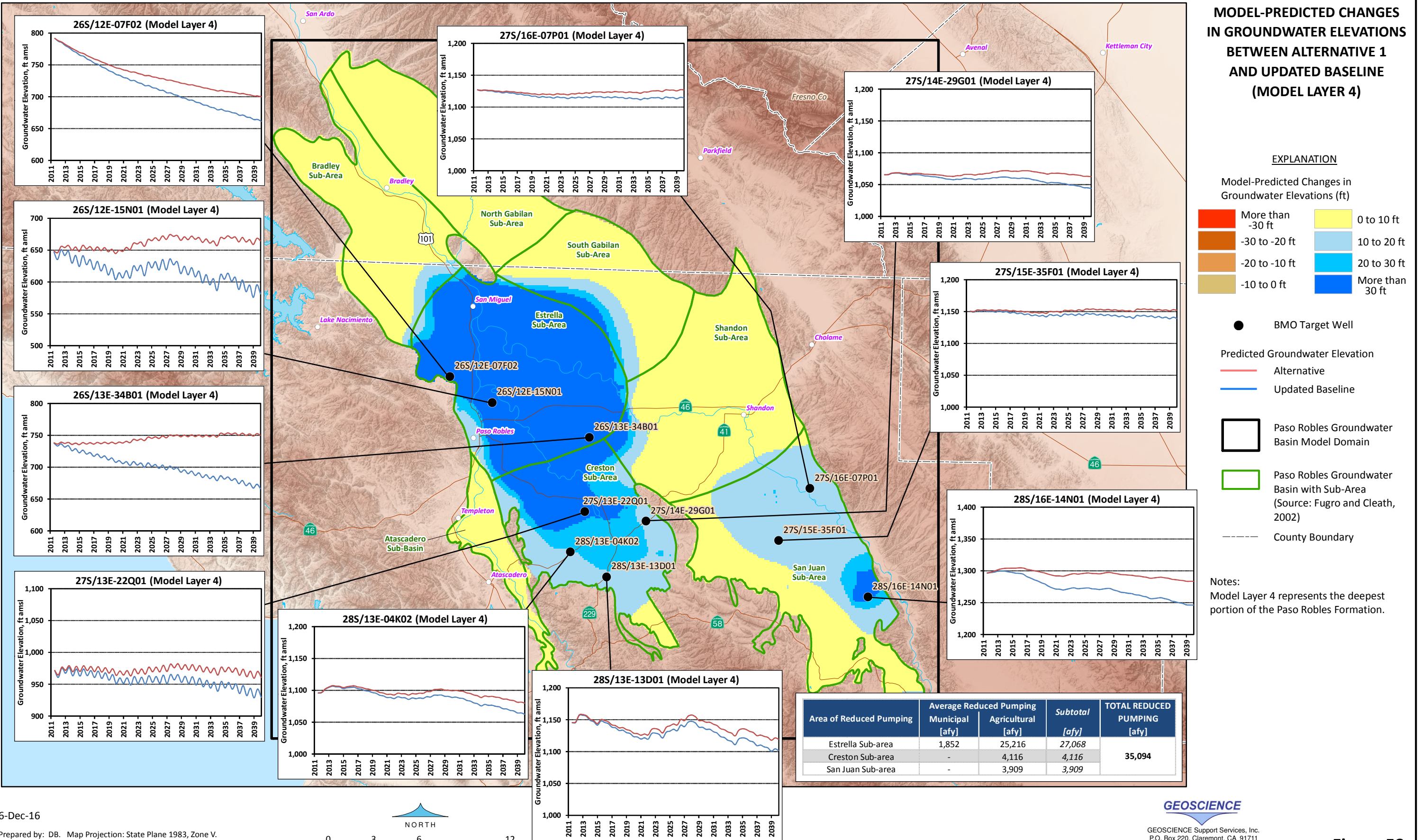
Notes:  
Model Layer 3 represents the portion of the Paso Robles Formation which covers most of the basin.



Area of Reduced Pumping	Average Reduced Municipal [afy]	Average Reduced Agricultural [afy]	Subtotal [afy]	TOTAL REDUCED PUMPING [afy]
Estrella Sub-area	1,852	25,216	27,068	35,094
Creston Sub-area	-	4,116	4,116	
San Juan Sub-area	-	3,909	3,909	



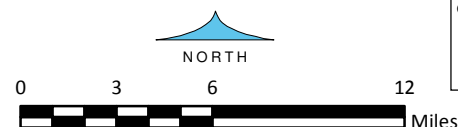
W:\GIS\_proj\co\_slo\_paso\_robles\_model\34\_Fig\_52\_L3\_gw\_elev\_change\_flood\_Alt1andbaseline\_12-16.mxd



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**Figure 53**

### Spring Water Surface Elevation (WSE) Trends - Alternative 2A (2012-2040) Atascadero Sub-Basin

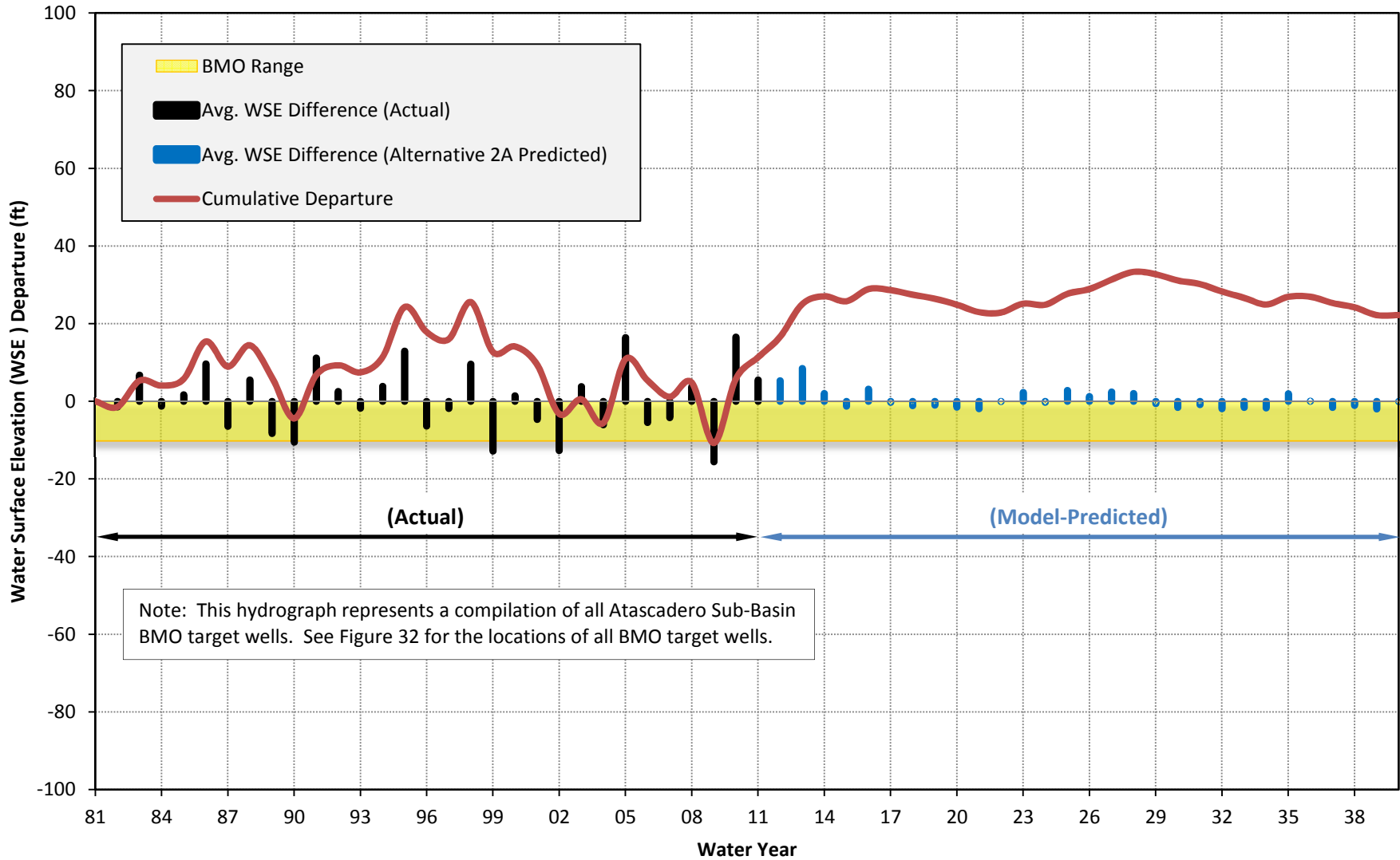


Figure 54

### Spring Water Surface Elevation (WSE) Trends - Alternative 2A (2012-2040) Estrella Sub-Area

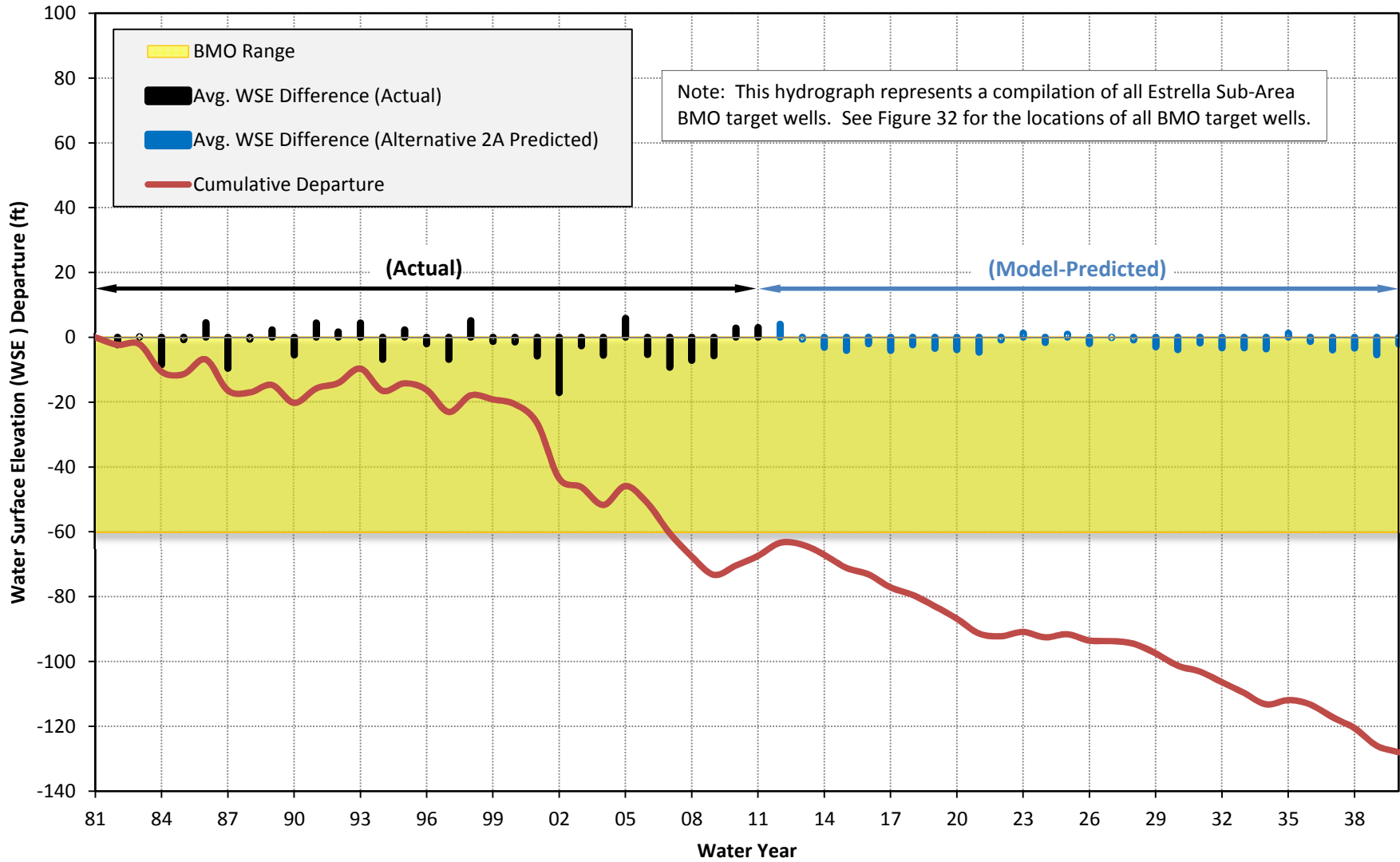
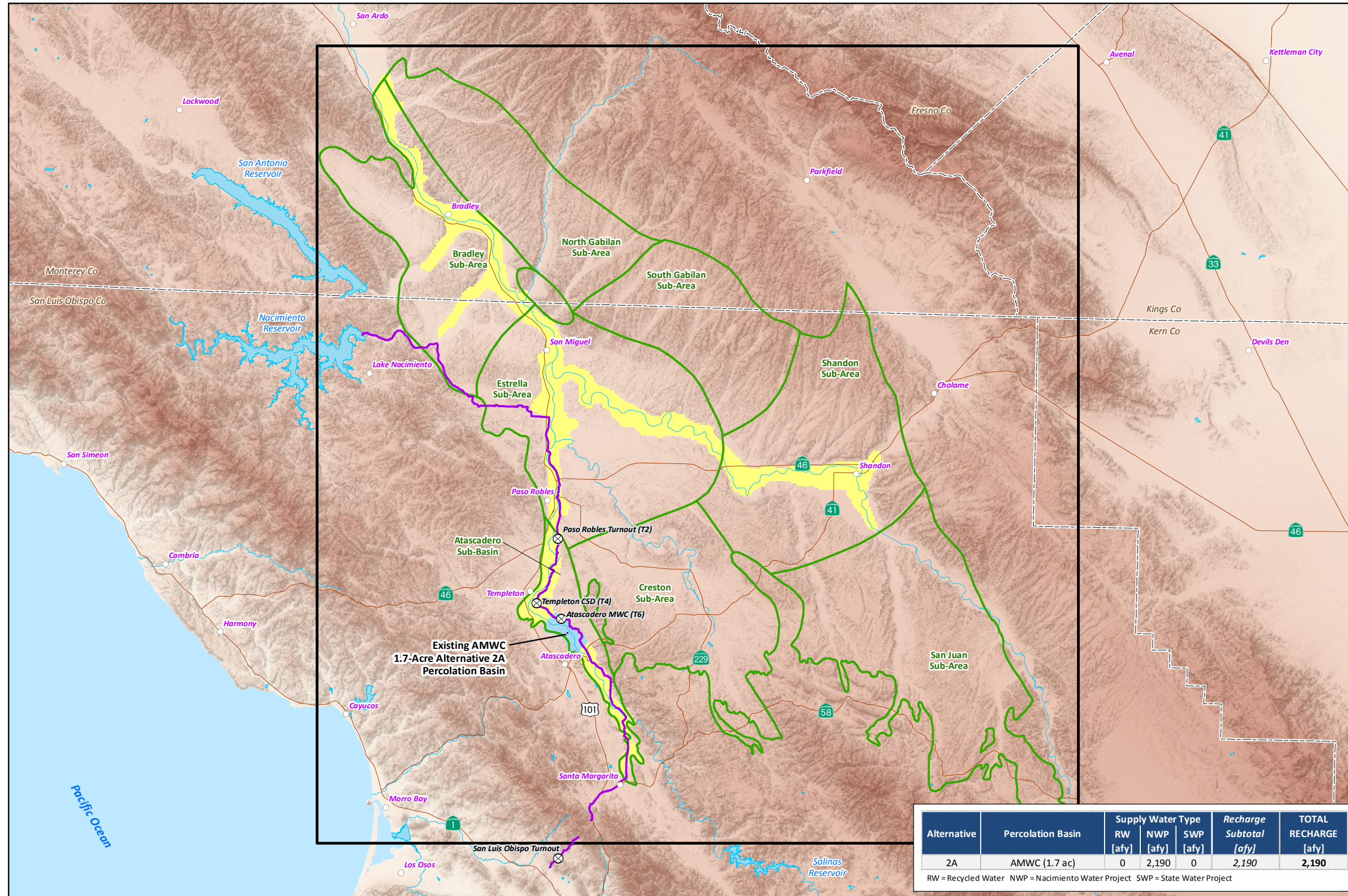


Figure 55





**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 2A AND UPDATED BASELINE (MODEL LAYER 1)**

**EXPLANATION**

- Model-Predicted Changes in Groundwater Elevations (ft)
- More than -30 ft
  - 30 to -20 ft
  - 20 to -10 ft
  - 10 to 0 ft
  - 0 to 10 ft
  - 10 to 20 ft
  - 20 to 30 ft
  - More than 30 ft

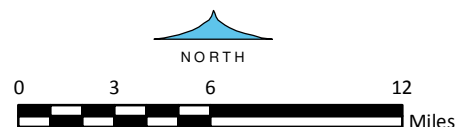
- Model Cell Used to Simulate Percolation Basin
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- ⊗ Nacimiento Water Project Turnout
- County Boundary

Notes:  
Model Layer 1 represents recent alluvial deposits.

6-Dec-16

Prepared by: DB. Map Projection: State Plane 1983, Zone V.

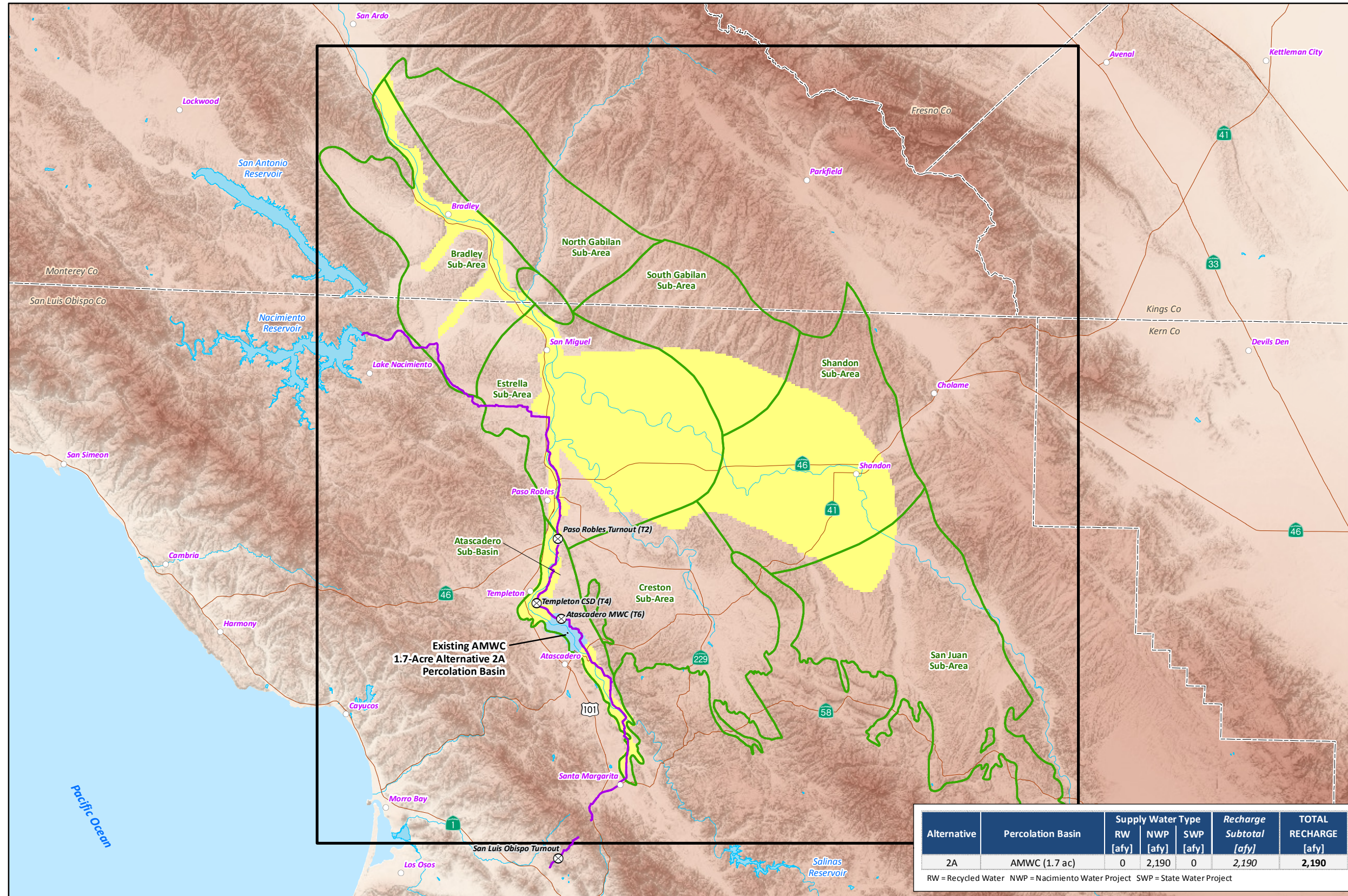
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**Figure 56**



**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 2A AND UPDATED BASELINE (MODEL LAYER 2)**

**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

- Model Cell Used to Simulate Percolation Basin
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- ⊗ Nacimiento Water Project Turnout
- County Boundary

Notes:  
Model Layer 2 represents the upper portion of the Paso Robles Formation.

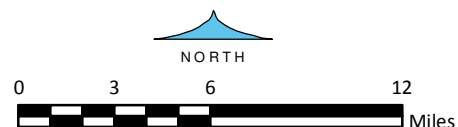
Alternative	Percolation Basin	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
2A	AMWC (1.7 ac)	0	2,190	0	2,190	2,190

RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

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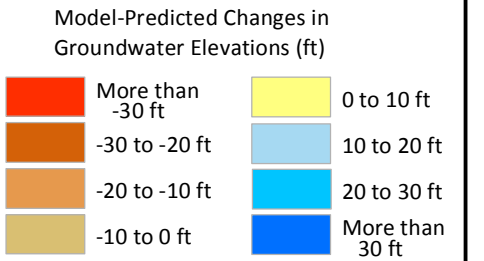
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**Figure 57**

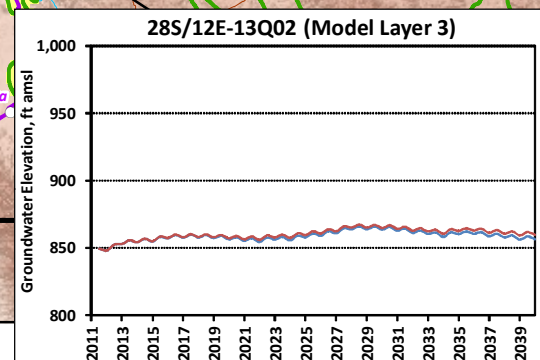
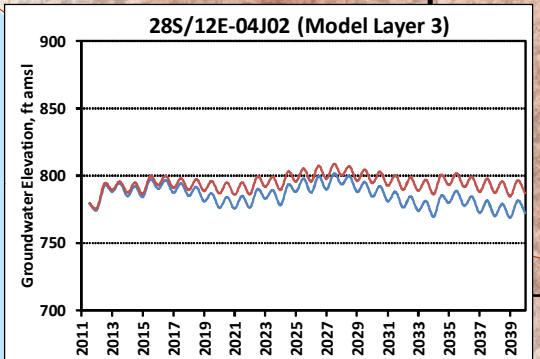
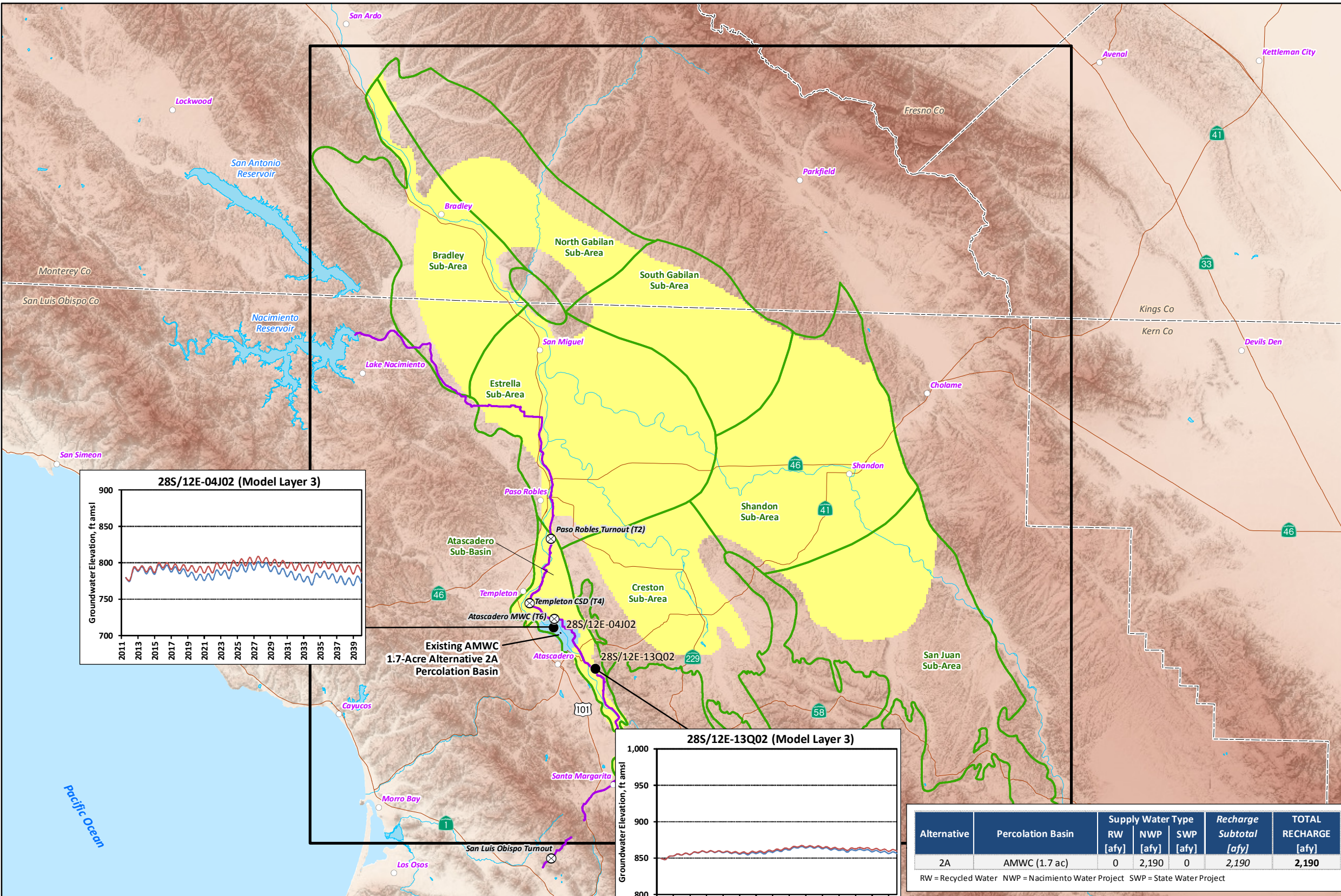
**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 2A AND UPDATED BASELINE (MODEL LAYER 3)**

**EXPLANATION**



- BMO Target Well
- Model-Predicted Groundwater Elevation
  - Alternative
  - Updated Baseline
- Model Cell Used to Simulate Percolation Basin
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- ⊗ Nacimiento Water Project Turnout
- County Boundary

Notes:  
Model Layer 3 represents the portion of the Paso Robles Formation which covers most of the basin.



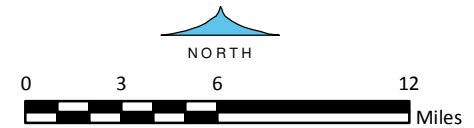
Alternative	Percolation Basin	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
2A	AMWC (1.7 ac)	0	2,190	0	2,190	2,190

RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

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Prepared by: DB. Map Projection: State Plane 1983, Zone V.

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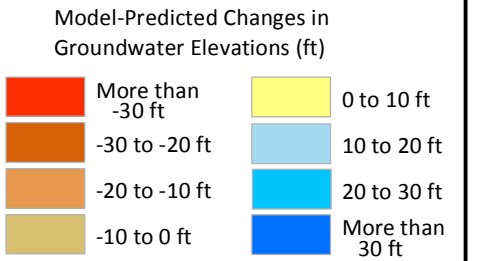
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**Figure 58**

W:\GIS\_proj\co\_slo\_paso\_robles\_model\34\_Fig\_58\_L3\_gw\_elev\_change\_flood\_Alt2Aminusbaseline\_12-16.mxd

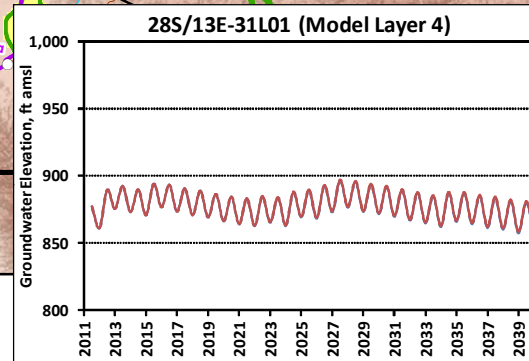
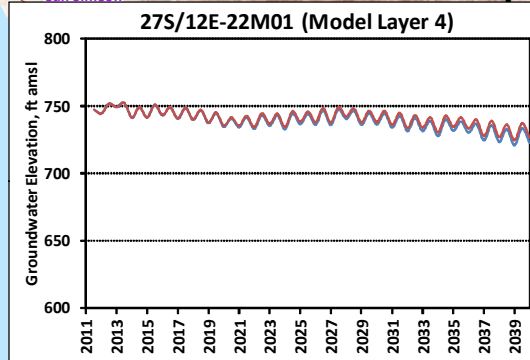
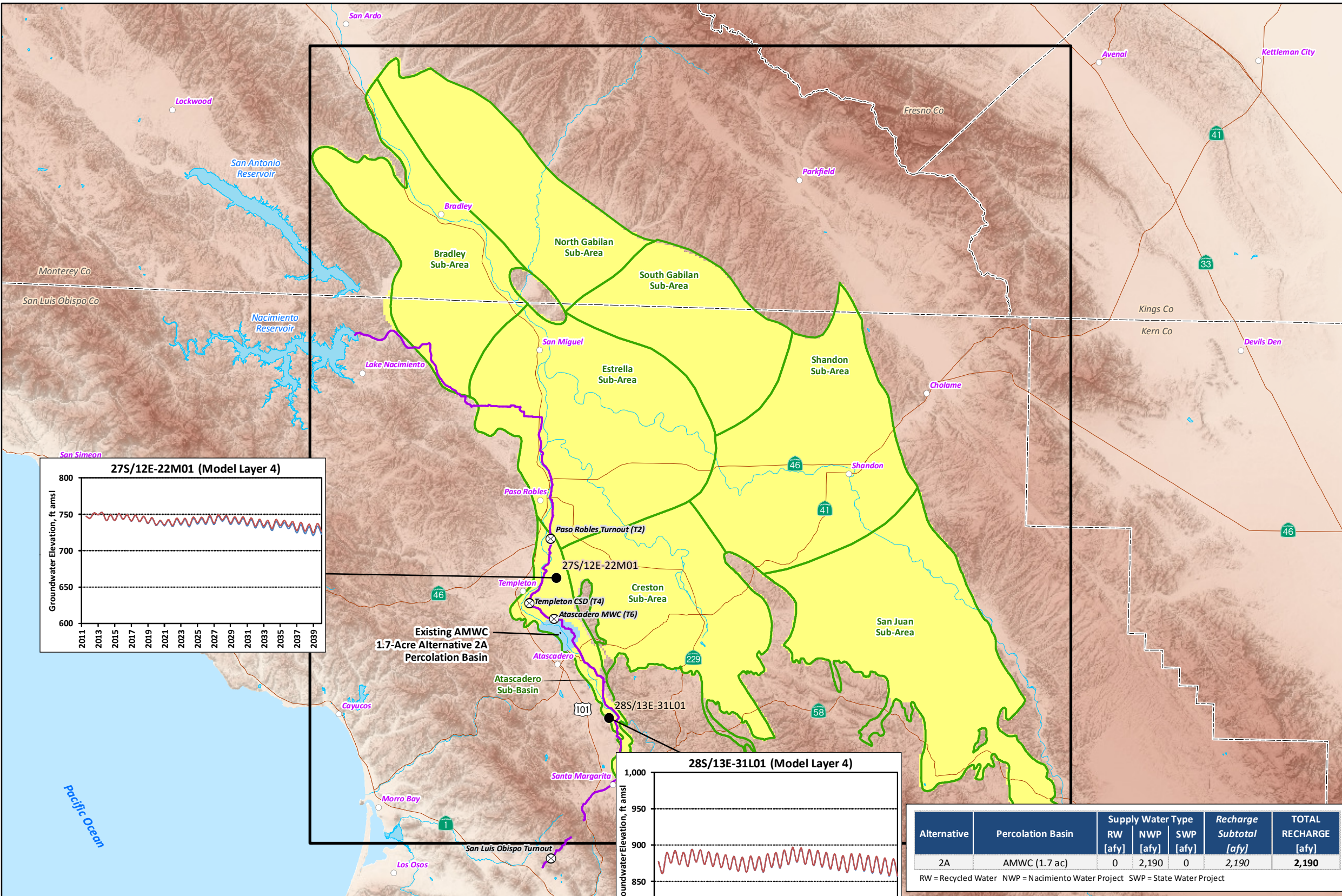
**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 2A AND UPDATED BASELINE (MODEL LAYER 4)**

**EXPLANATION**



- BMO Target Well
- Model-Predicted Groundwater Elevation
  - Alternative
  - Updated Baseline
- Model Cell Used to Simulate Percolation Basin
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- ⊗ Nacimiento Water Project Turnout
- County Boundary

Notes:  
Model Layer 4 represents the deepest portion of the Paso Robles Formation.



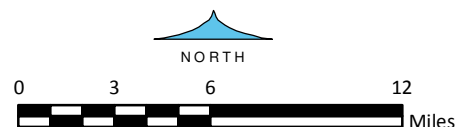
Alternative	Percolation Basin	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
2A	AMWC (1.7 ac)	0	2,190	0	2,190	2,190

RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

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Prepared by: DB. Map Projection: State Plane 1983, Zone V.

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**Figure 59**

**Spring Water Surface Elevation (WSE) Trends - Alternative 2B (2012-2040)**  
**Atascadero Sub-Basin**

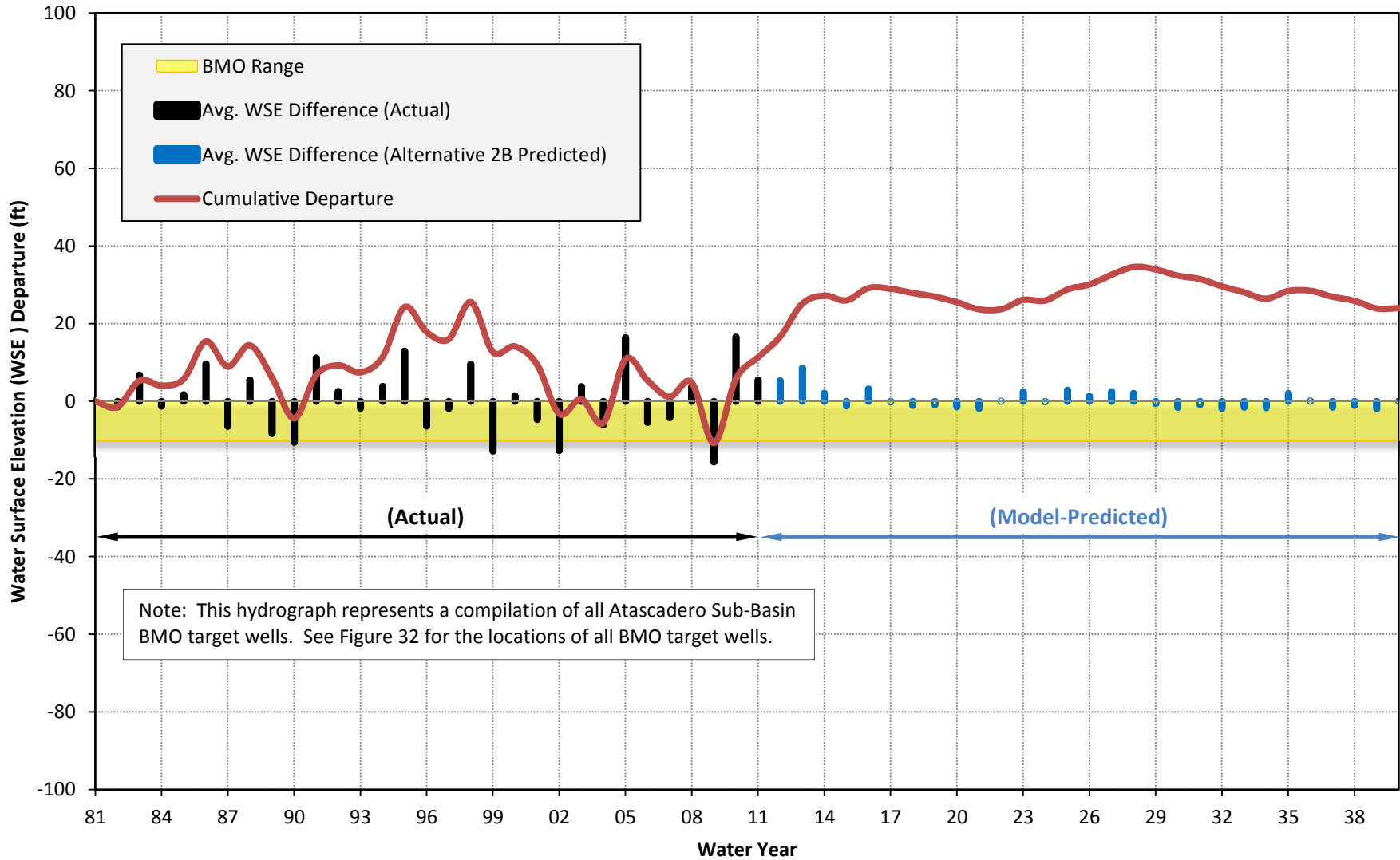


Figure 60

**Spring Water Surface Elevation (WSE) Trends - Alternative 2B (2012-2040)**  
**Estrella Sub-Area**

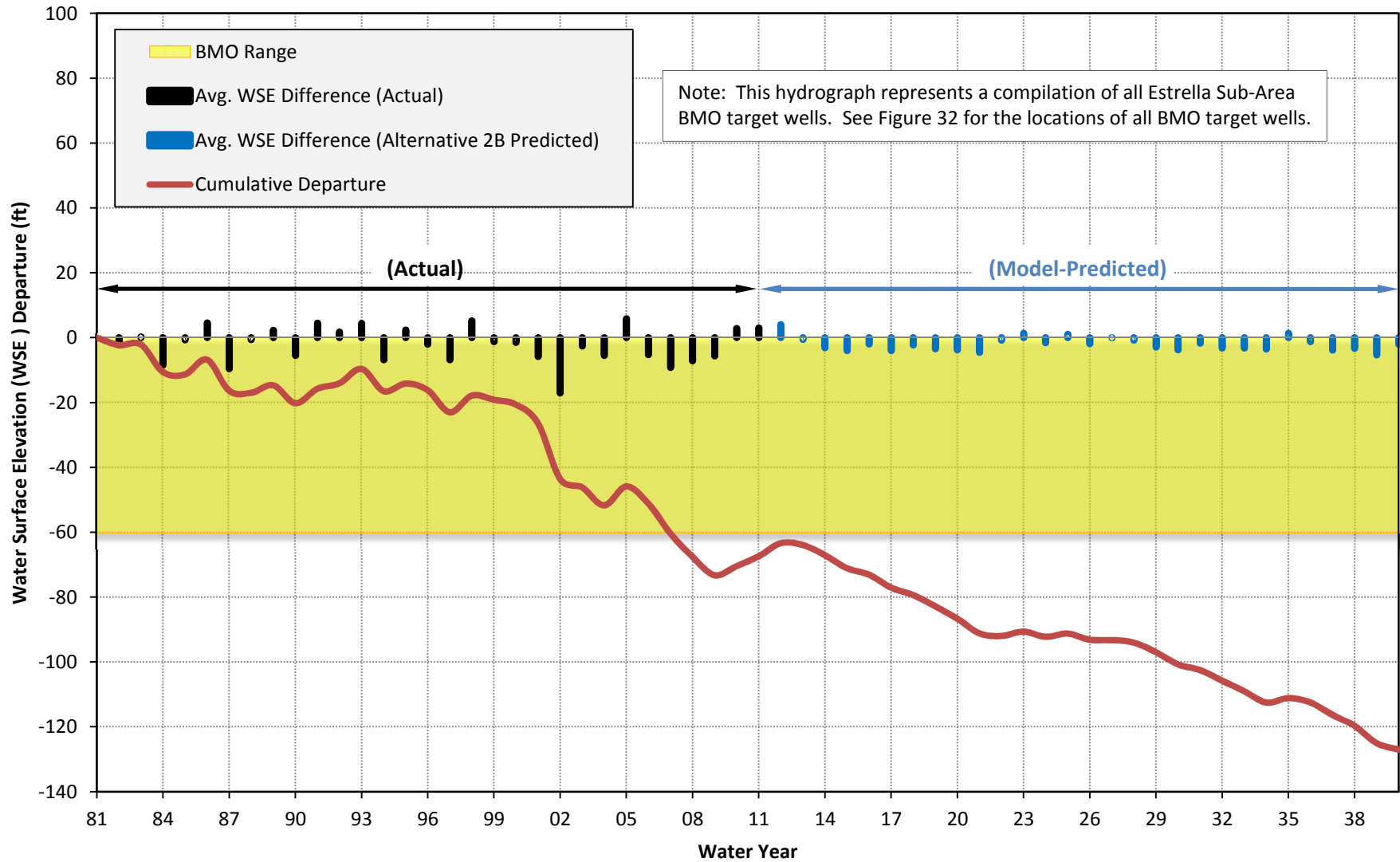
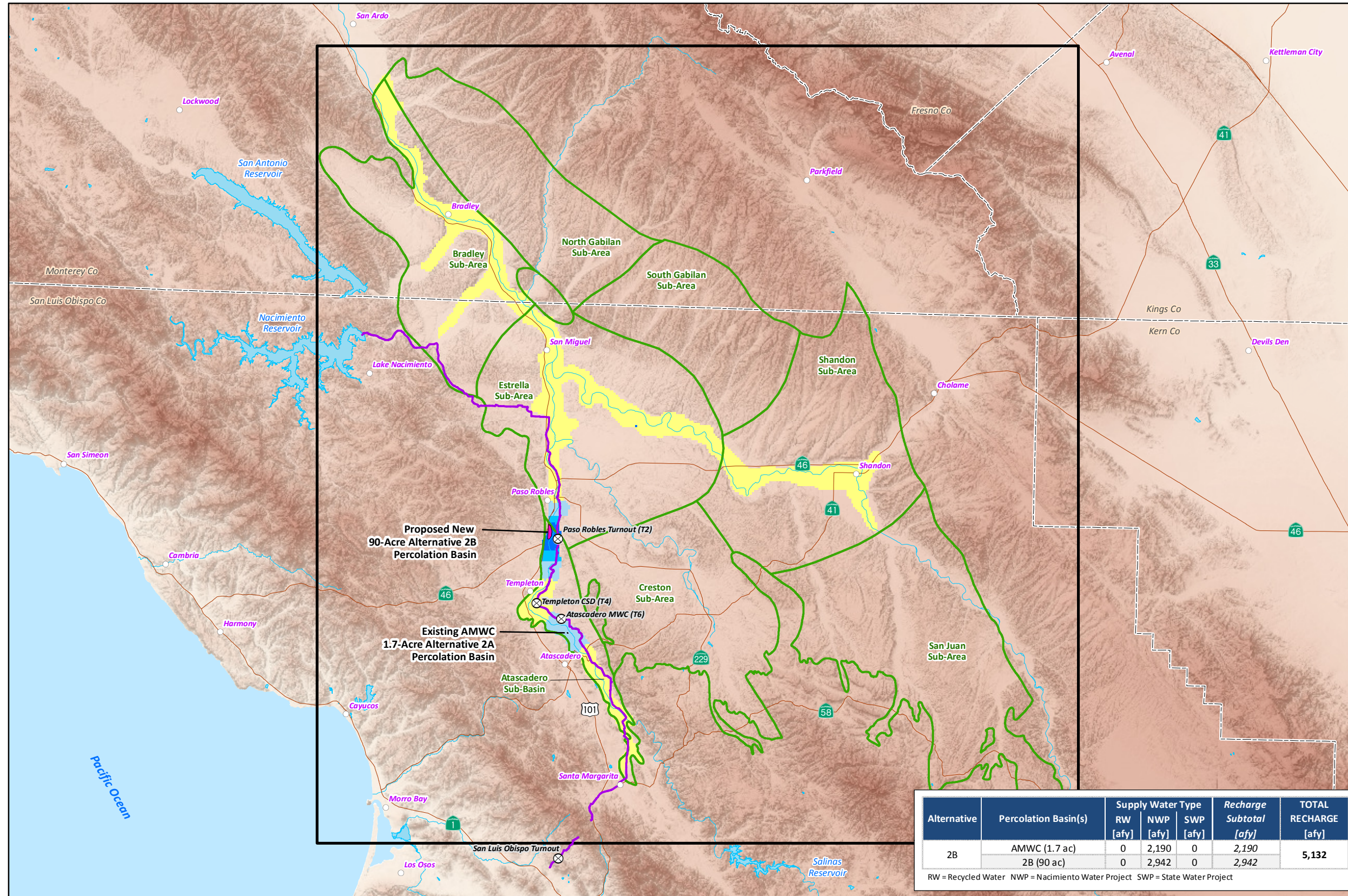


Figure 61



**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 2B AND UPDATED BASELINE (MODEL LAYER 1)**

**EXPLANATION**

- Model-Predicted Changes in Groundwater Elevations (ft)
- More than -30 ft
  - 30 to -20 ft
  - 20 to -10 ft
  - 10 to 0 ft
  - 0 to 10 ft
  - 10 to 20 ft
  - 20 to 30 ft
  - More than 30 ft

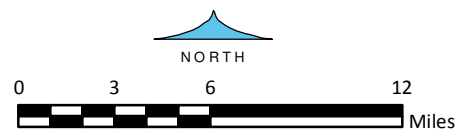
- Model Cell Used to Simulate Percolation Basin
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- Nacimiento Water Project Turnout
- County Boundary

Notes:  
Model Layer 1 represents recent alluvial deposits.

6-Dec-16

Prepared by: DB. Map Projection: State Plane 1983, Zone V.

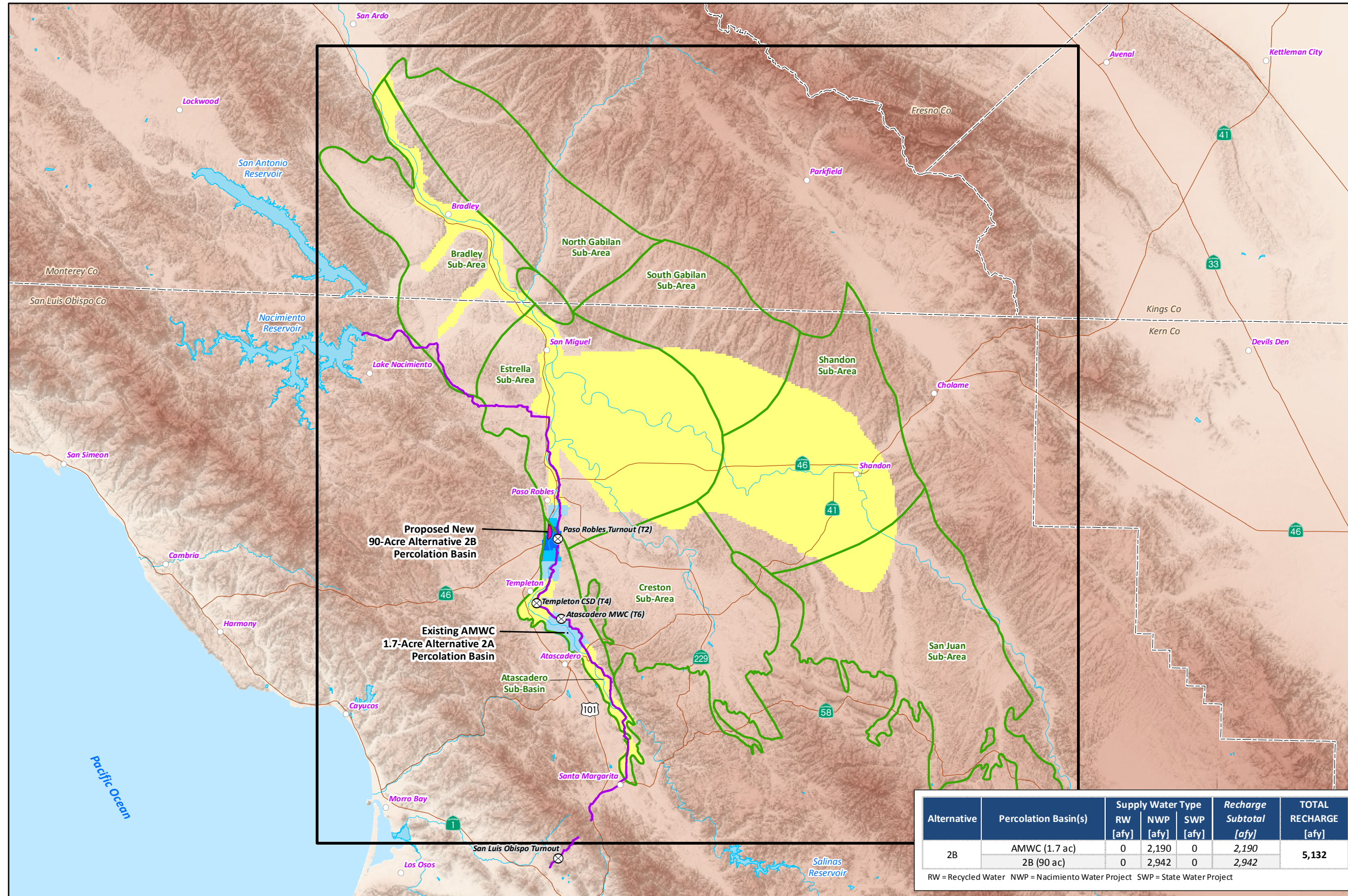
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**Figure 62**



**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 2B AND UPDATED BASELINE (MODEL LAYER 2)**

**EXPLANATION**

- Model-Predicted Changes in Groundwater Elevations (ft)
- More than -30 ft
  - 30 to -20 ft
  - 20 to -10 ft
  - 10 to 0 ft
  - 0 to 10 ft
  - 10 to 20 ft
  - 20 to 30 ft
  - More than 30 ft

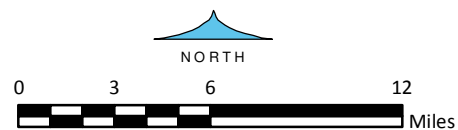
- Model Cell Used to Simulate Percolation Basin
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- Nacimiento Water Project Turnout
- County Boundary

Notes:  
Model Layer 2 represents the upper portion of the Paso Robles Formation.

6-Dec-16

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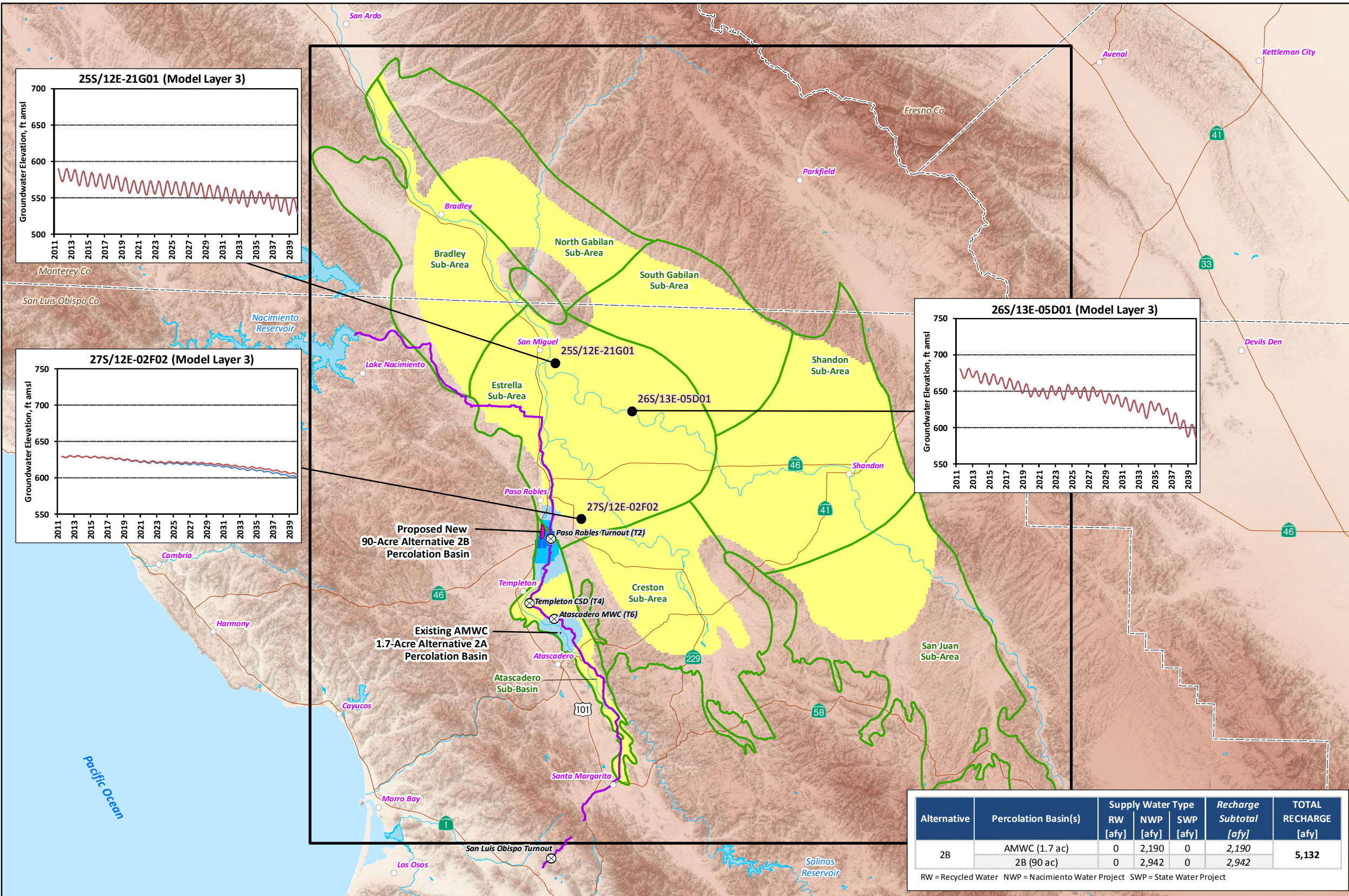


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**Figure 63**





**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 2B AND UPDATED BASELINE (MODEL LAYER 3)**

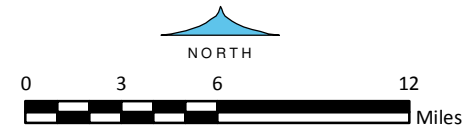
**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

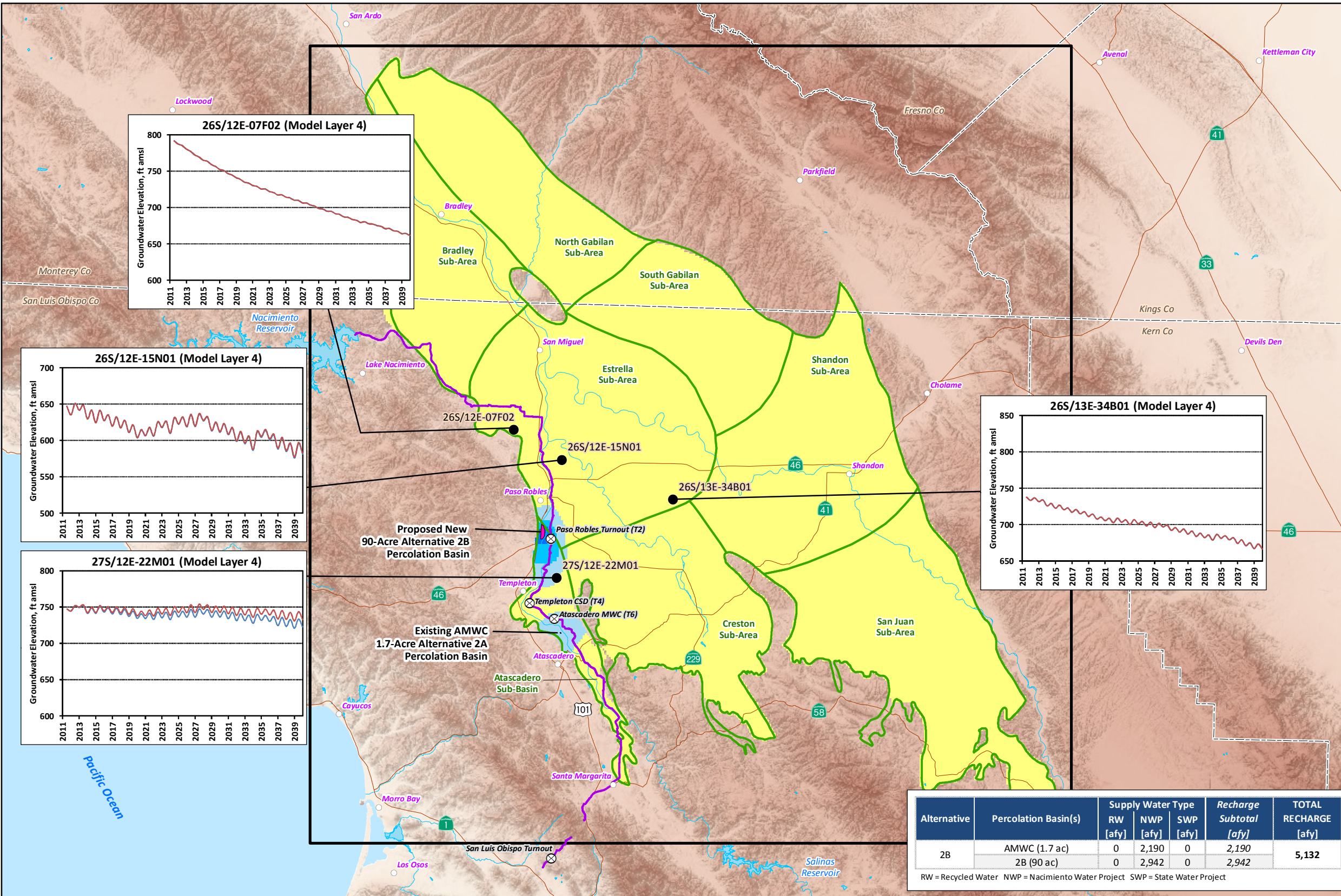
- BMO Target Well
- Model-Predicted Groundwater Elevation
- Alternative
- Updated Baseline
- Model Cell Used to Simulate Percolation Basin
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- ⊗ Nacimiento Water Project Turnout
- County Boundary

Notes:  
Model Layer 3 represents the portion of the Paso Robles Formation which covers most of the basin.



W:\GIS\_proj\co\_slo\_paso\_robles\_model\34\_Fig\_64\_L3\_gw\_elev\_change\_flood\_Alt2Bminusbaseline\_12-16.mxd

**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 2B AND UPDATED BASELINE (MODEL LAYER 4)**



**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

- BMO Target Well
- Model-Predicted Groundwater Elevation
  - Alternative
  - Updated Baseline
- Model Cell Used to Simulate Percolation Basin
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- ⊗ Nacimiento Water Project Turnout
- County Boundary

Notes:  
Model Layer 4 represents the deepest portion of the Paso Robles Formation.

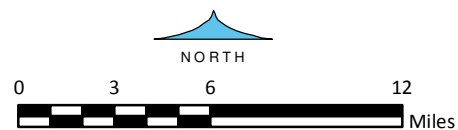
Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
2B	AMWC (1.7 ac)	0	2,190	0	2,190	5,132
	2B (90 ac)	0	2,942	0	2,942	

RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

6-Dec-16

Prepared by: DB. Map Projection: State Plane 1983, Zone V.

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**Figure 65**

### Spring Water Surface Elevation (WSE) Trends - Alternative 3 (2012-2040) Estrella Sub-Area

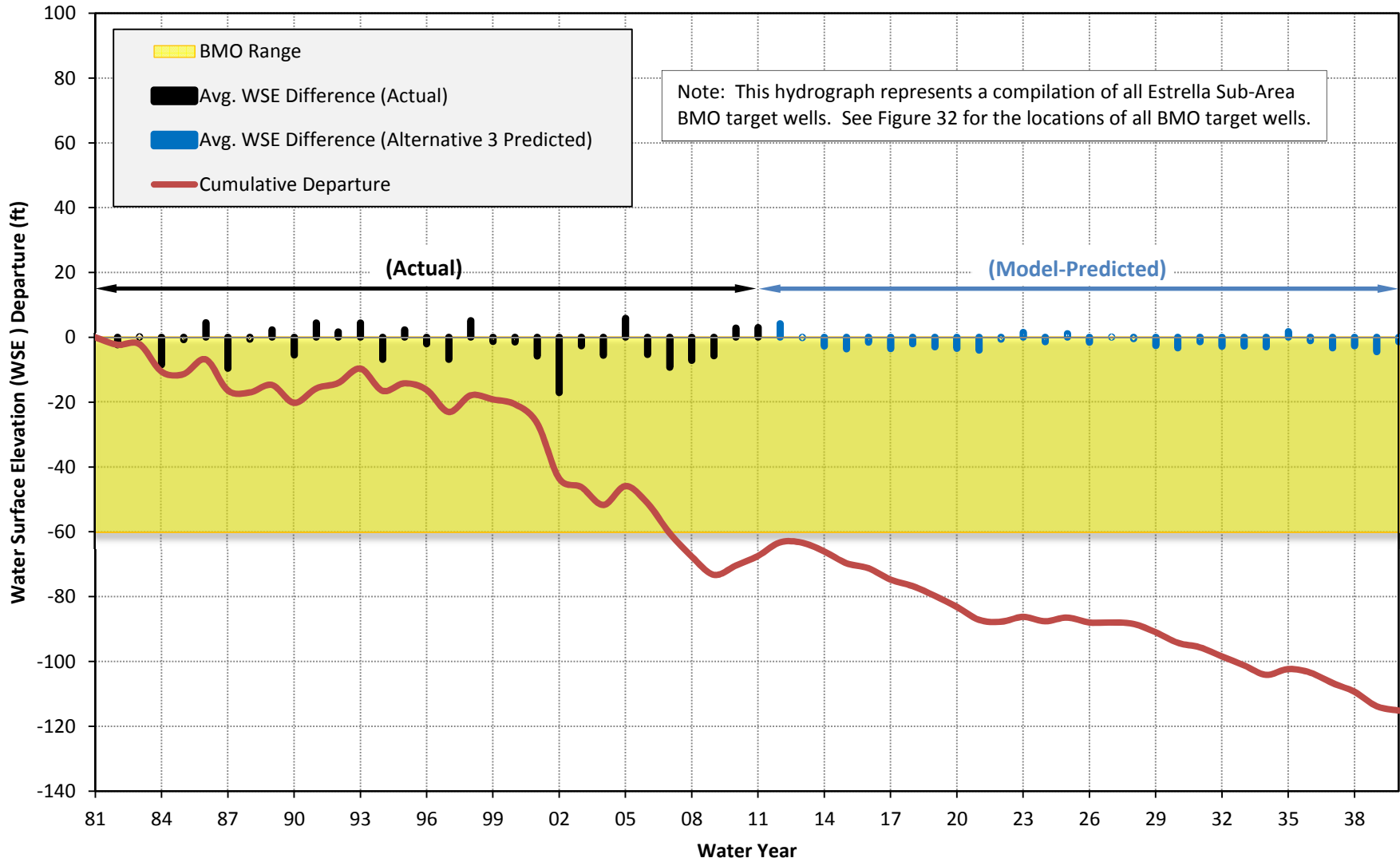
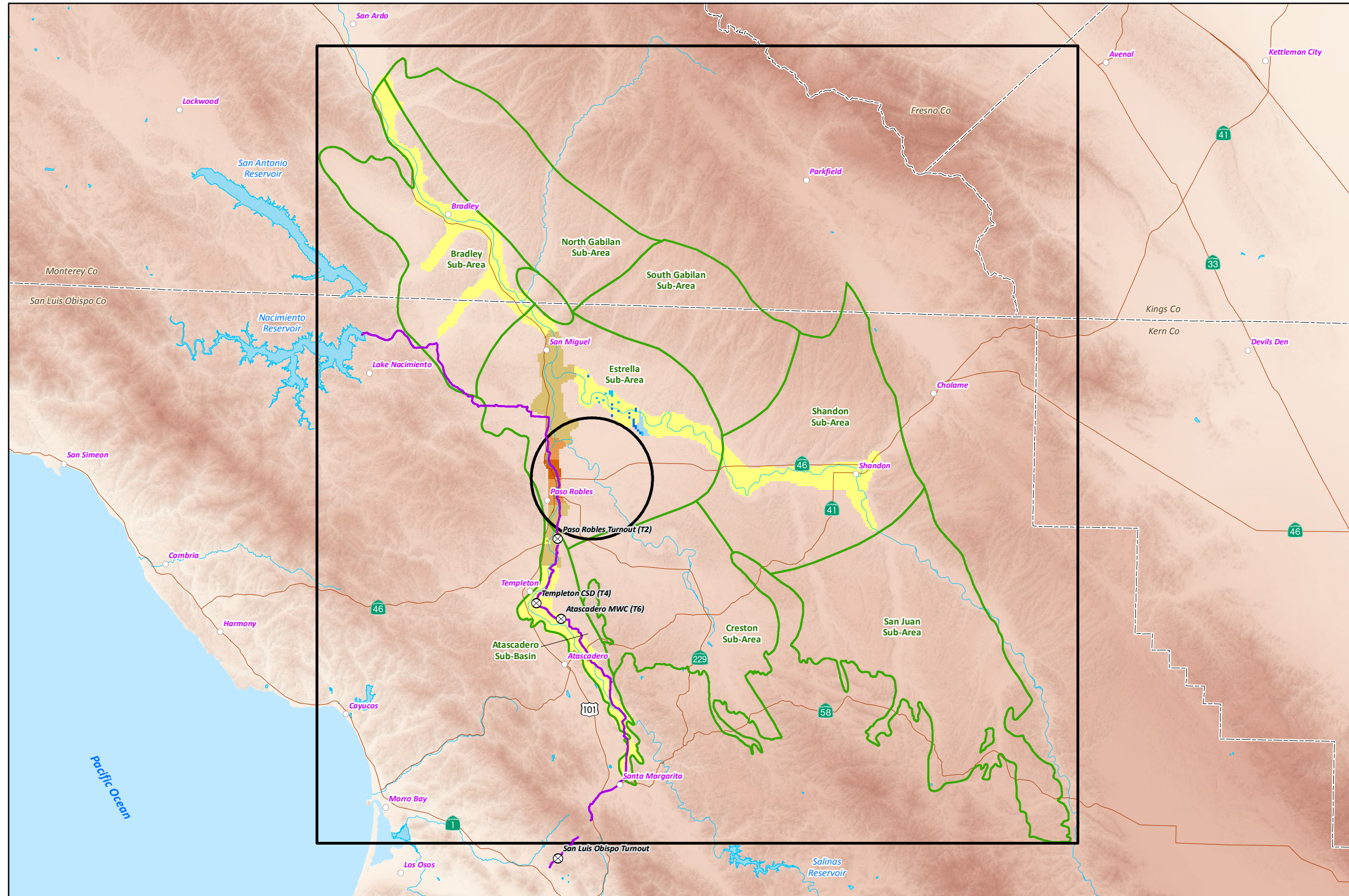


Figure 66



**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 3 AND UPDATED BASELINE (MODEL LAYER 1)**

**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

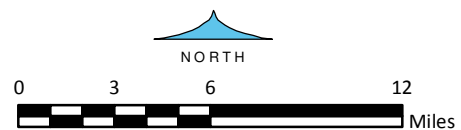
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Selected Area to Offset Agricultural Pumping
- Nacimiento Water Project Pipeline
- Nacimiento Water Project Turnout
- County Boundary

- Notes:
- Alternative 3: Offset Agricultural Groundwater Pumping with Recycled Water.
  - Model Layer 1 represents recent alluvial deposits.

6-Dec-16

Prepared by: DB. Map Projection: State Plane 1983, Zone V.

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**Figure 67**

**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 3 AND UPDATED BASELINE (MODEL LAYER 2)**

**EXPLANATION**

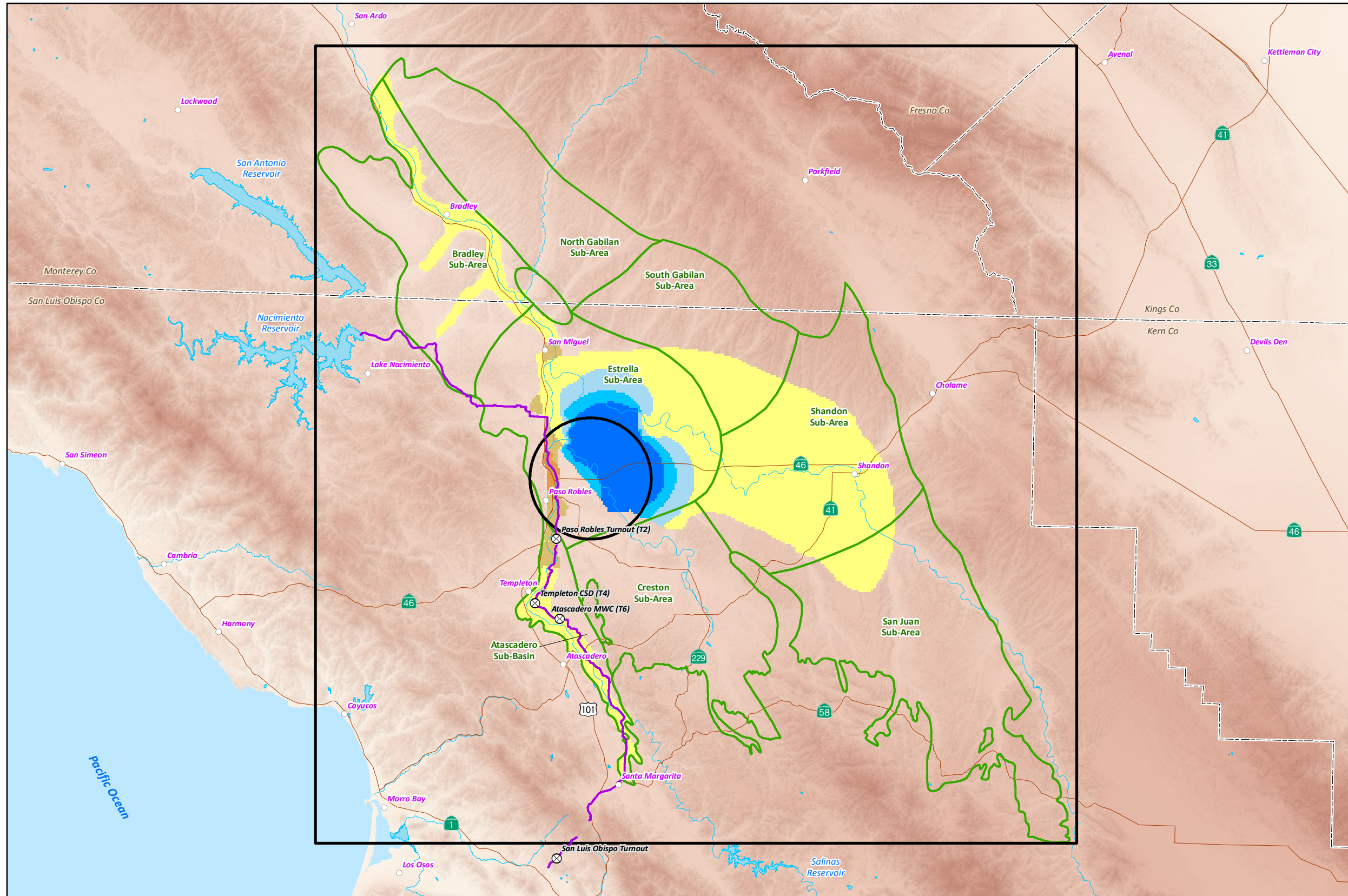
Model-Predicted Changes in Groundwater Elevations (ft)

	More than -30 ft		0 to 10 ft
	-30 to -20 ft		10 to 20 ft
	-20 to -10 ft		20 to 30 ft
	-10 to 0 ft		More than 30 ft

- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Selected Area to Offset Agricultural Pumping
- Nacimiento Water Project Pipeline
- Nacimiento Water Project Turnout
- County Boundary

**Notes:**

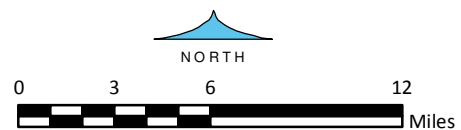
1. Alternative 3: Offset Agricultural Groundwater Pumping with Recycled Water.
2. Model Layer 2 represents the upper portion of the Paso Robles Formation.



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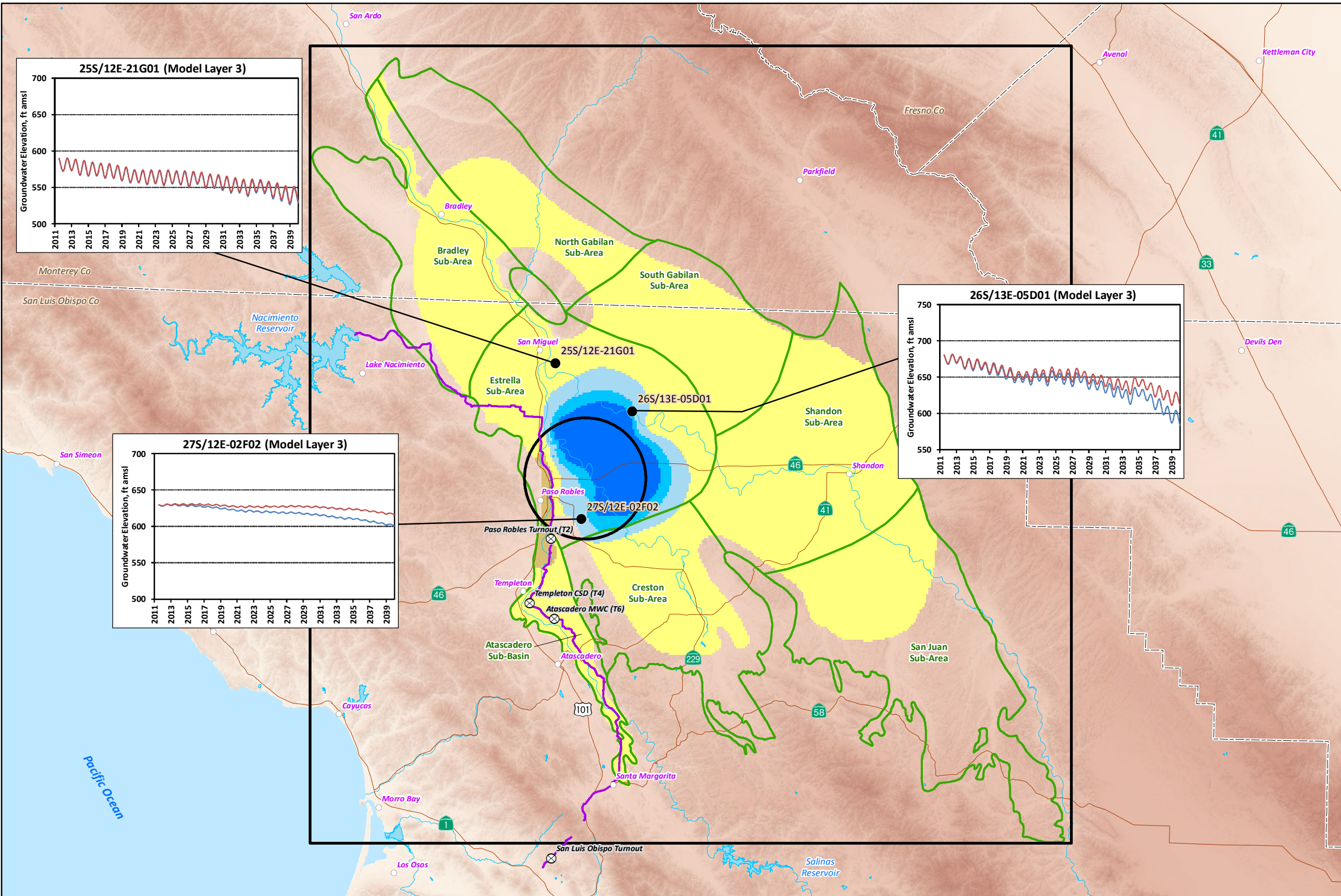


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**Figure 68**

**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 3 AND UPDATED BASELINE (MODEL LAYER 3)**



**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

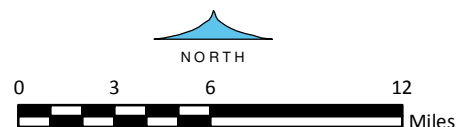
- BMO Target Well
- Model-Predicted Groundwater Elevation
  - Alternative
  - Updated Baseline
- ▭ Paso Robles Groundwater Basin Model Domain
- ▭ Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Selected Area to Offset Agricultural Pumping
- Nacimiento Water Project Pipeline
- ⊗ Nacimiento Water Project Turnout
- - - County Boundary

- Notes:
- Alternative 3: Offset Agricultural Groundwater Pumping with Recycled Water.
  - Model Layer 3 represents the portion of the Paso Robles Formation which covers most of the basin.

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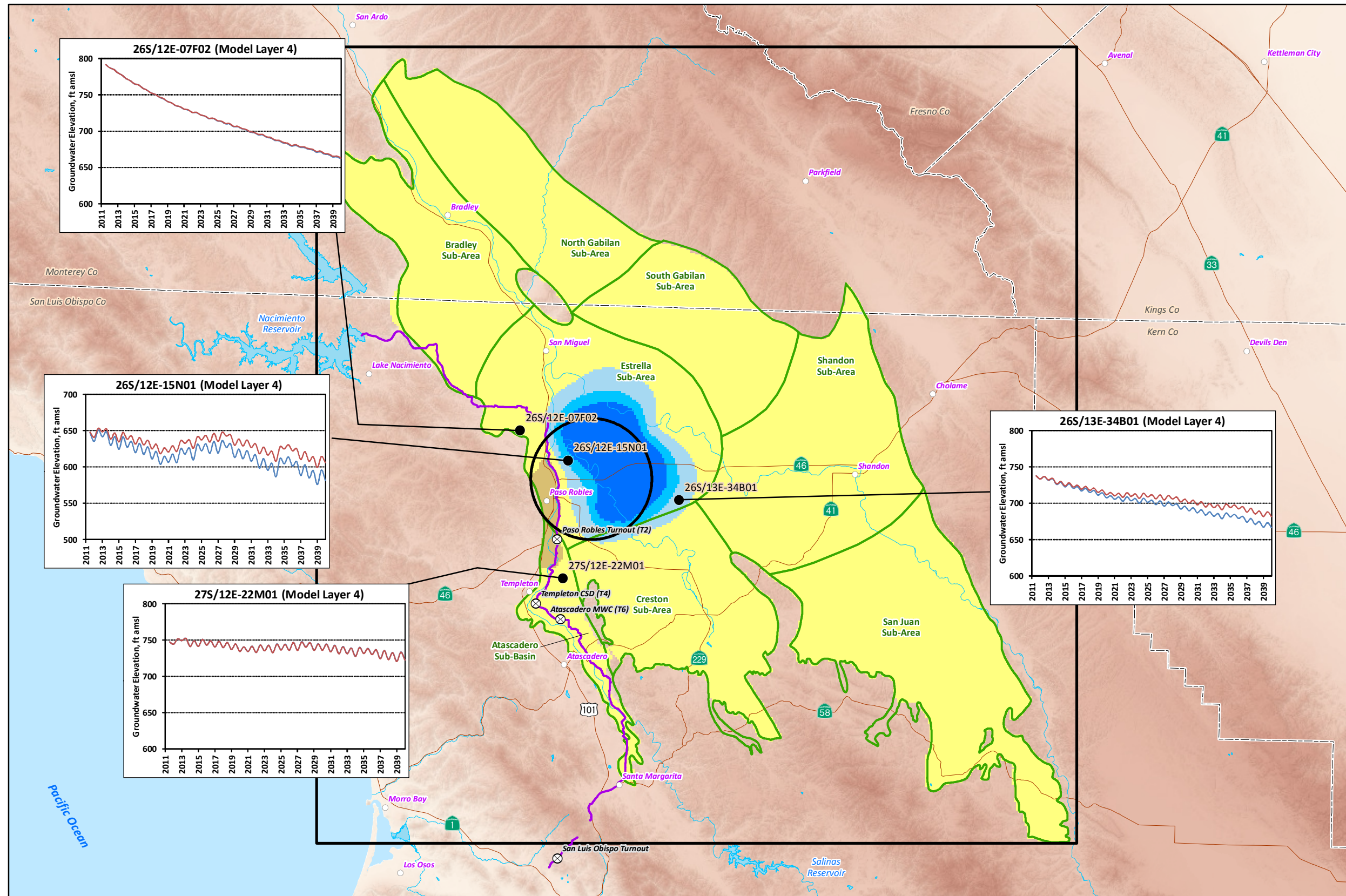


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**Figure 69**

**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 3 AND UPDATED BASELINE (MODEL LAYER 4)**



**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

● BMO Target Well

Model-Predicted Groundwater Elevation

— Alternative  
— Updated Baseline

▭ Paso Robles Groundwater Basin Model Domain

▭ Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)

○ Selected Area to Offset Agricultural Pumping

— Nacimiento Water Project Pipeline

⊗ Nacimiento Water Project Turnout

- - - County Boundary

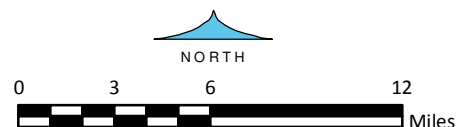
**Notes:**

1. Alternative 3: Offset Agricultural Groundwater Pumping with Recycled Water.
2. Model Layer 4 represents the deepest portion of the Paso Robles Formation.

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**Figure 70**

**Spring Water Surface Elevation (WSE) Trends - Alternative 4A (2012-2040)**  
**Estrella Sub-Area**

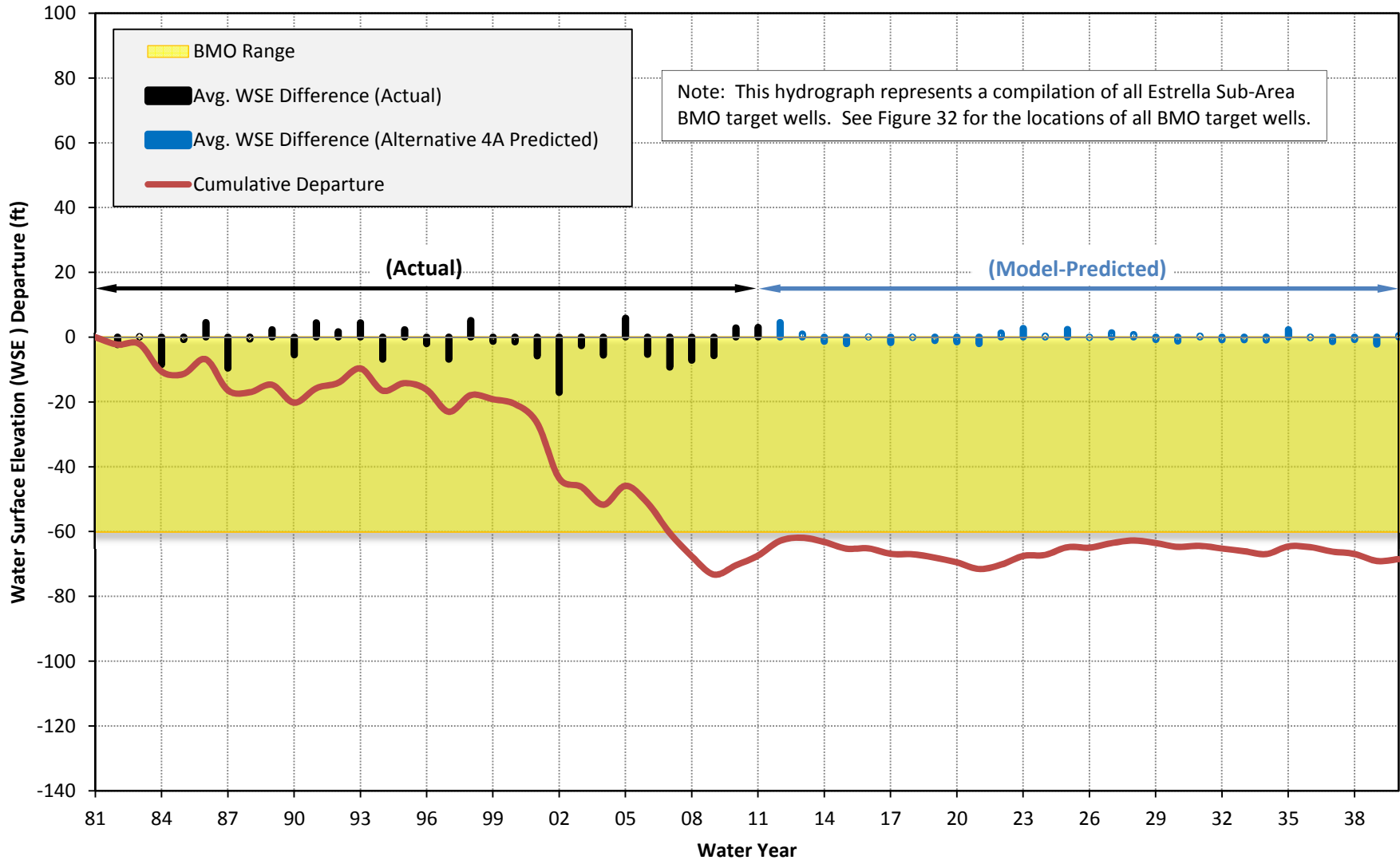


Figure 71



**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 4A AND UPDATED BASELINE (MODEL LAYER 1)**

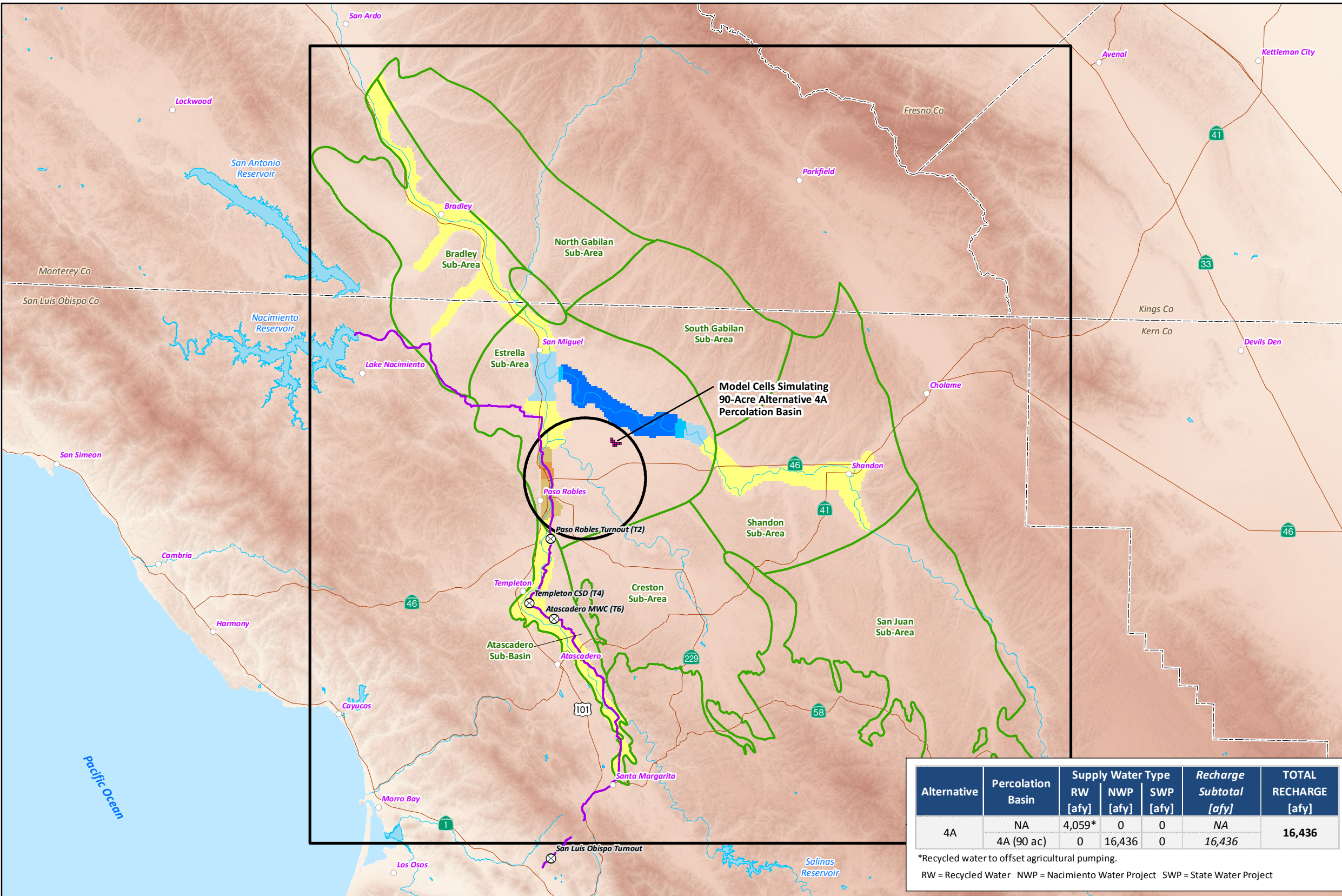
**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

- Model Cell Used to Simulate Percolation Basin
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Selected Area to Offset Agricultural Pumping
- Nacimiento Water Project (NWP) Pipeline
- Nacimiento Water Project Turnout
- County Boundary

Notes:  
Model Layer 1 represents recent alluvial deposits.



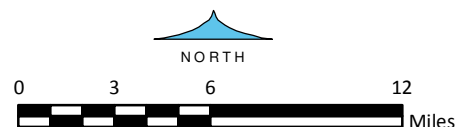
Alternative	Percolation Basin	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
4A	NA	4,059*	0	0	NA	16,436
	4A (90 ac)	0	16,436	0	16,436	

\*Recycled water to offset agricultural pumping.  
RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

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Prepared by: DB. Map Projection: State Plane 1983, Zone V.

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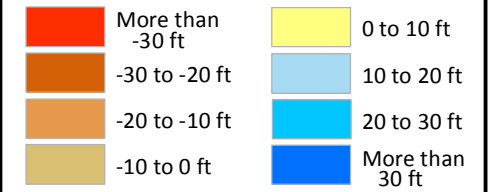
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**Figure 72**

**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 4A AND UPDATED BASELINE (MODEL LAYER 2)**

**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)



Model Cell Used to Simulate Percolation Basin

Paso Robles Groundwater Basin Model Domain

Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)

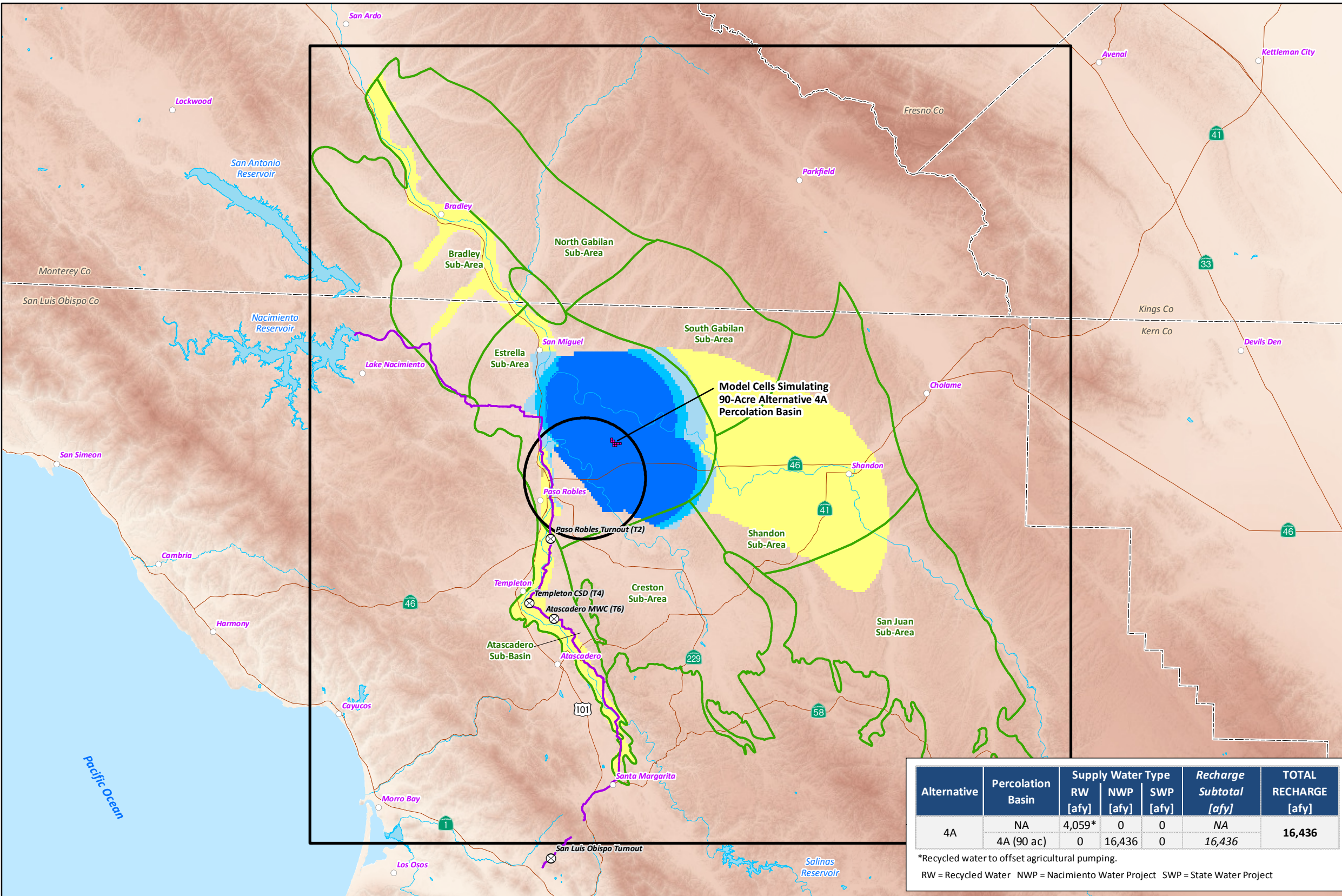
Selected Area to Offset Agricultural Pumping

Nacimiento Water Project (NWP) Pipeline

Nacimiento Water Project Turnout

County Boundary

Notes:  
Model Layer 2 represents the upper portion of the Paso Robles Formation.



Alternative	Percolation Basin	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
4A	NA	4,059*	0	0	NA	16,436
	4A (90 ac)	0	16,436	0	16,436	

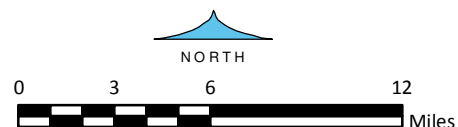
\*Recycled water to offset agricultural pumping.

RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

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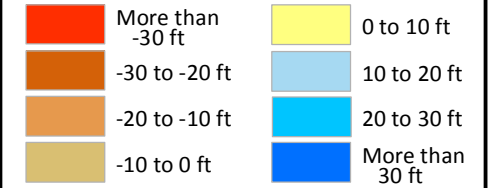
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**Figure 73**

**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 4A AND UPDATED BASELINE (MODEL LAYER 3)**

**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)



● BMO Target Well

Model-Predicted Groundwater Elevation

— Alternative  
— Updated Baseline

■ Model Cell Used to Simulate Percolation Basin

□ Paso Robles Groundwater Basin Model Domain

▭ Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)

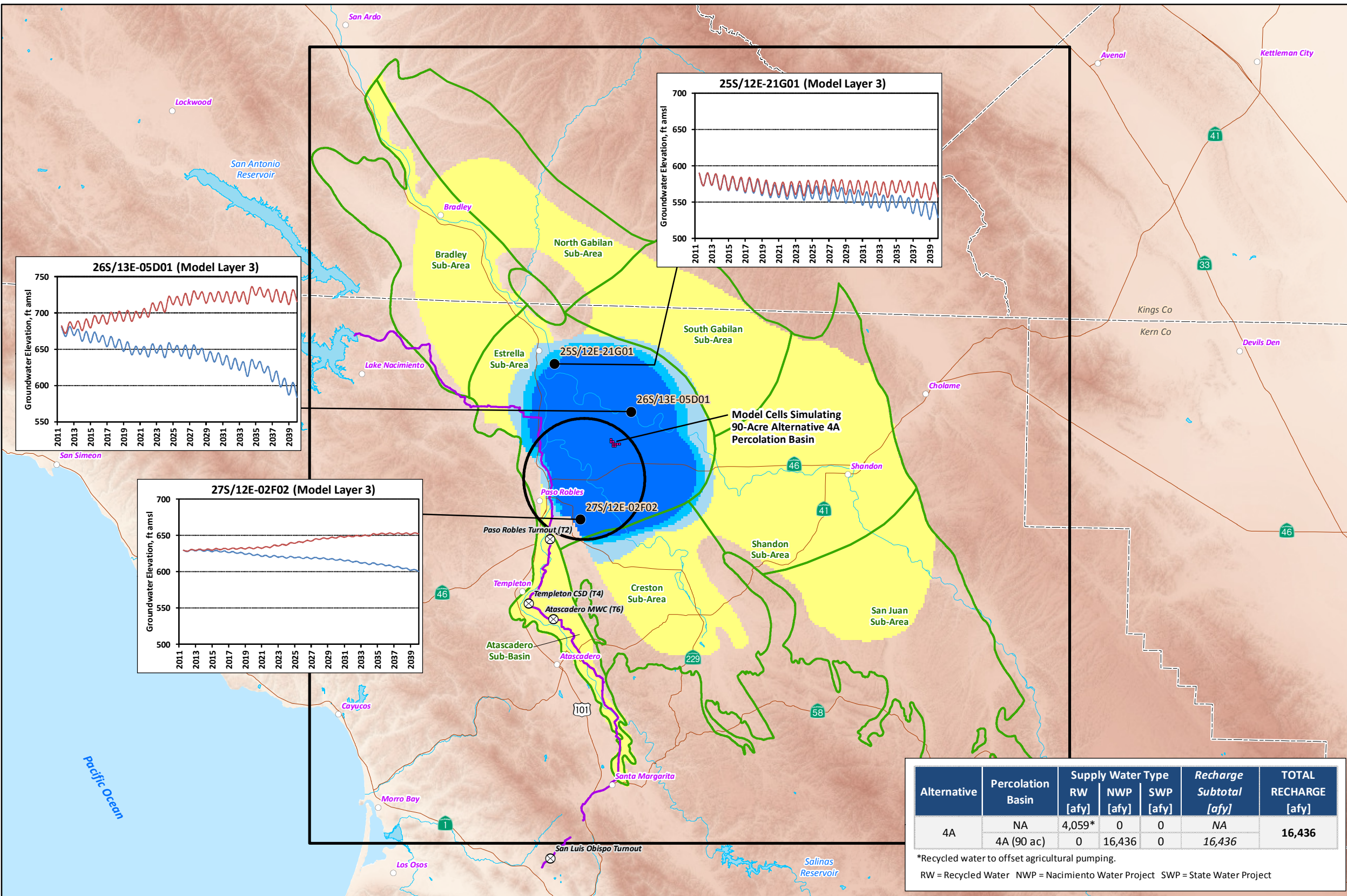
○ Selected Area to Offset Agricultural Pumping

— Nacimiento Water Project (NWP) Pipeline

⊗ Nacimiento Water Project Turnout

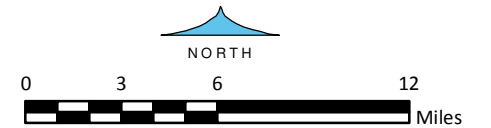
--- County Boundary

Notes:  
Model Layer 3 represents the portion of the Paso Robles Formation which covers most of the basin.

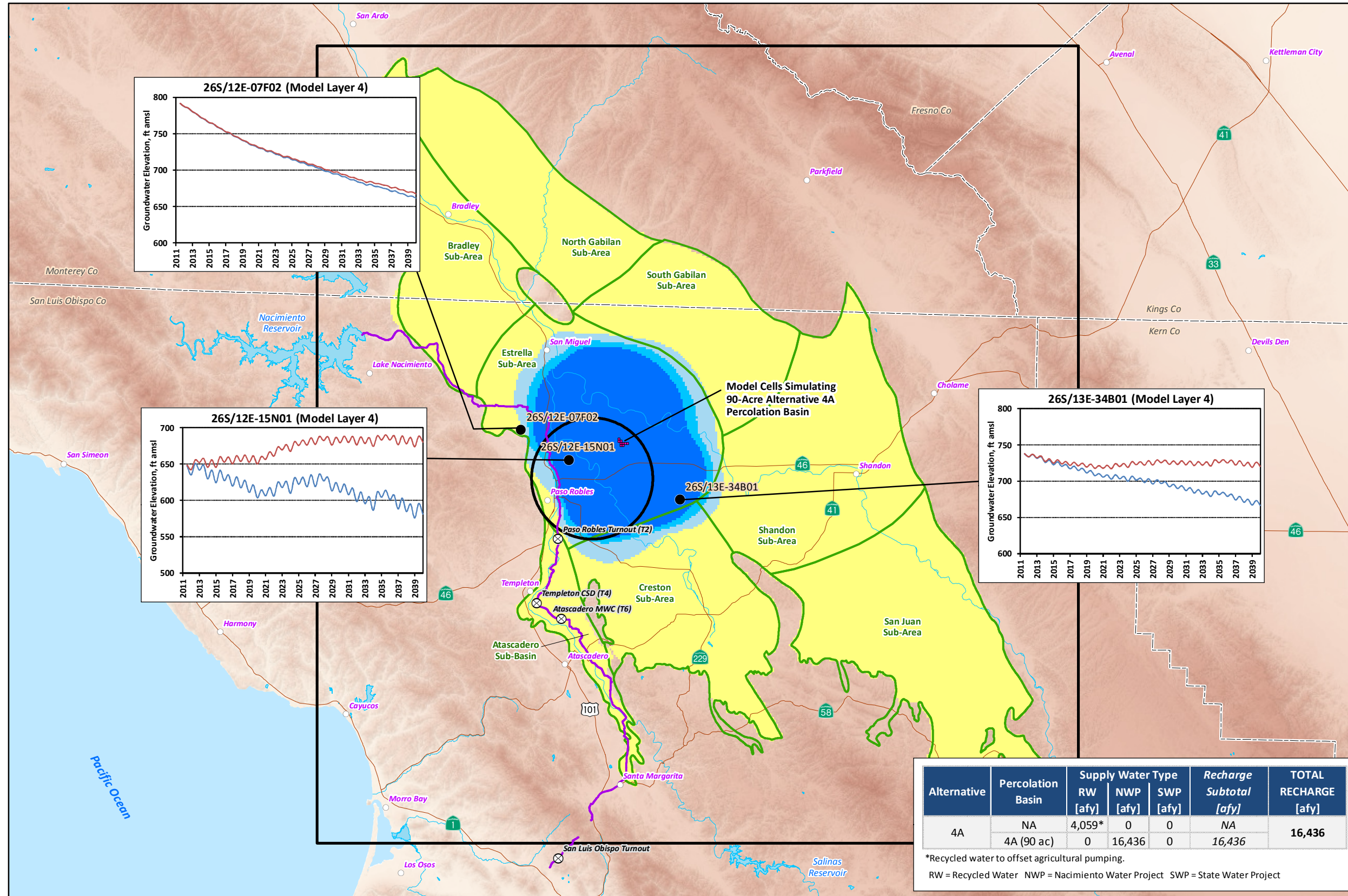


Alternative	Percolation Basin	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
4A	NA	4,059*	0	0	NA	16,436
	4A (90 ac)	0	16,436	0	16,436	

\*Recycled water to offset agricultural pumping.  
RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project



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**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 4A AND UPDATED BASELINE (MODEL LAYER 4)**

**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

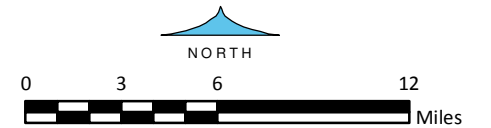
More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

- BMO Target Well
- Model-Predicted Groundwater Elevation
  - Alternative
  - Updated Baseline
- Model Cell Used to Simulate Percolation Basin
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Selected Area to Offset Agricultural Pumping
- Nacimiento Water Project (NWP) Pipeline
- ⊗ Nacimiento Water Project Turnout
- - - County Boundary

Notes:  
Model Layer 4 represents the deepest portion of the Paso Robles Formation.

Alternative	Percolation Basin	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
4A	NA	4,059*	0	0	NA	16,436
	4A (90 ac)	0	16,436	0	16,436	

\*Recycled water to offset agricultural pumping.  
RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project



**Spring Water Surface Elevation (WSE) Trends - Alternative 4B (2012-2040)**  
**Estrella Sub-Area**

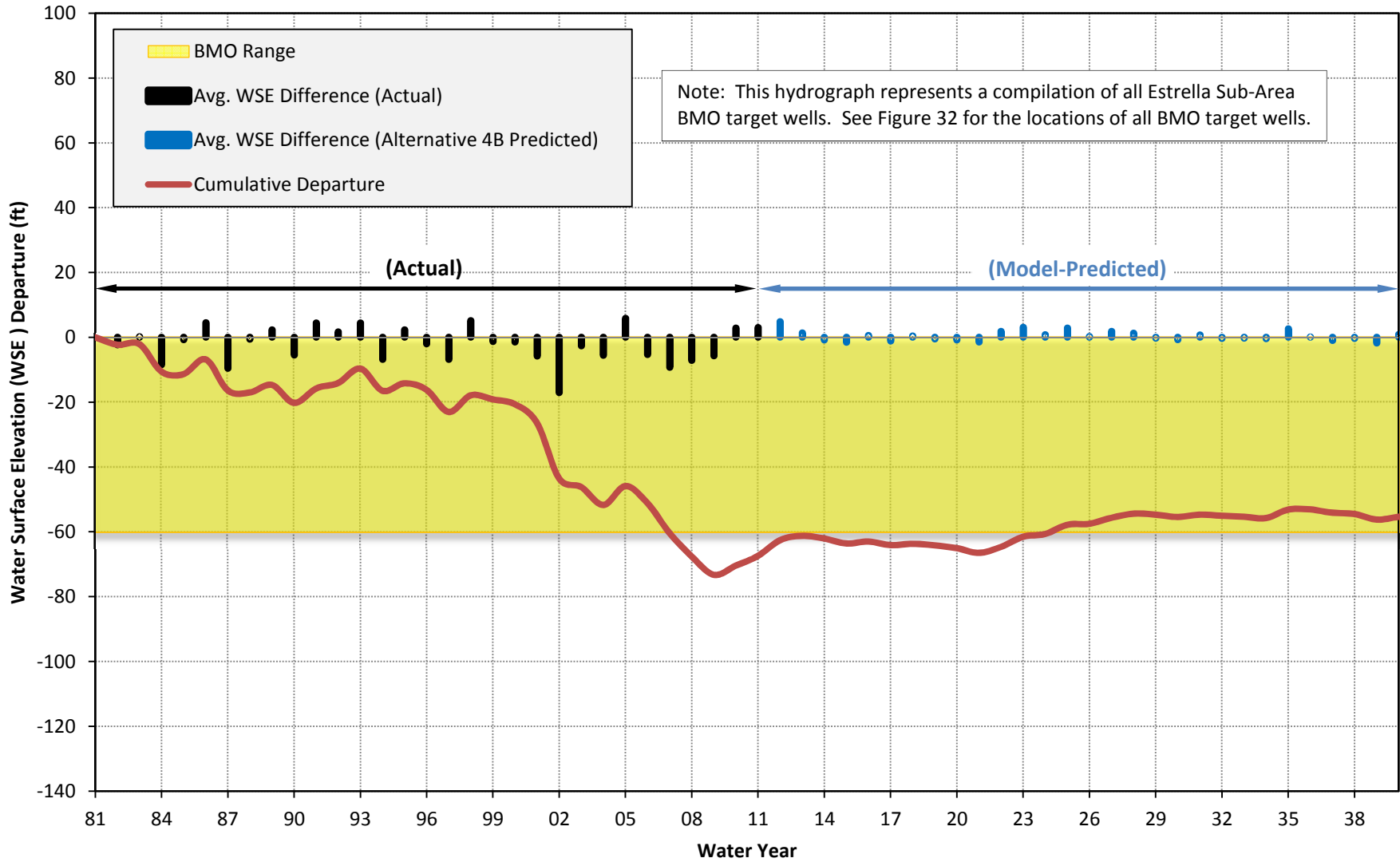
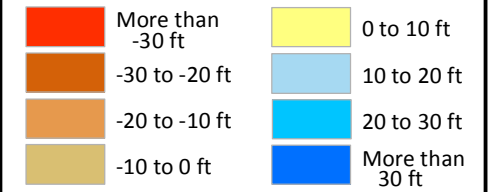


Figure 76

**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 4B AND UPDATED BASELINE (MODEL LAYER 1)**

**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)



Model Cell Used to Simulate Percolation Basin

Paso Robles Groundwater Basin Model Domain

Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)

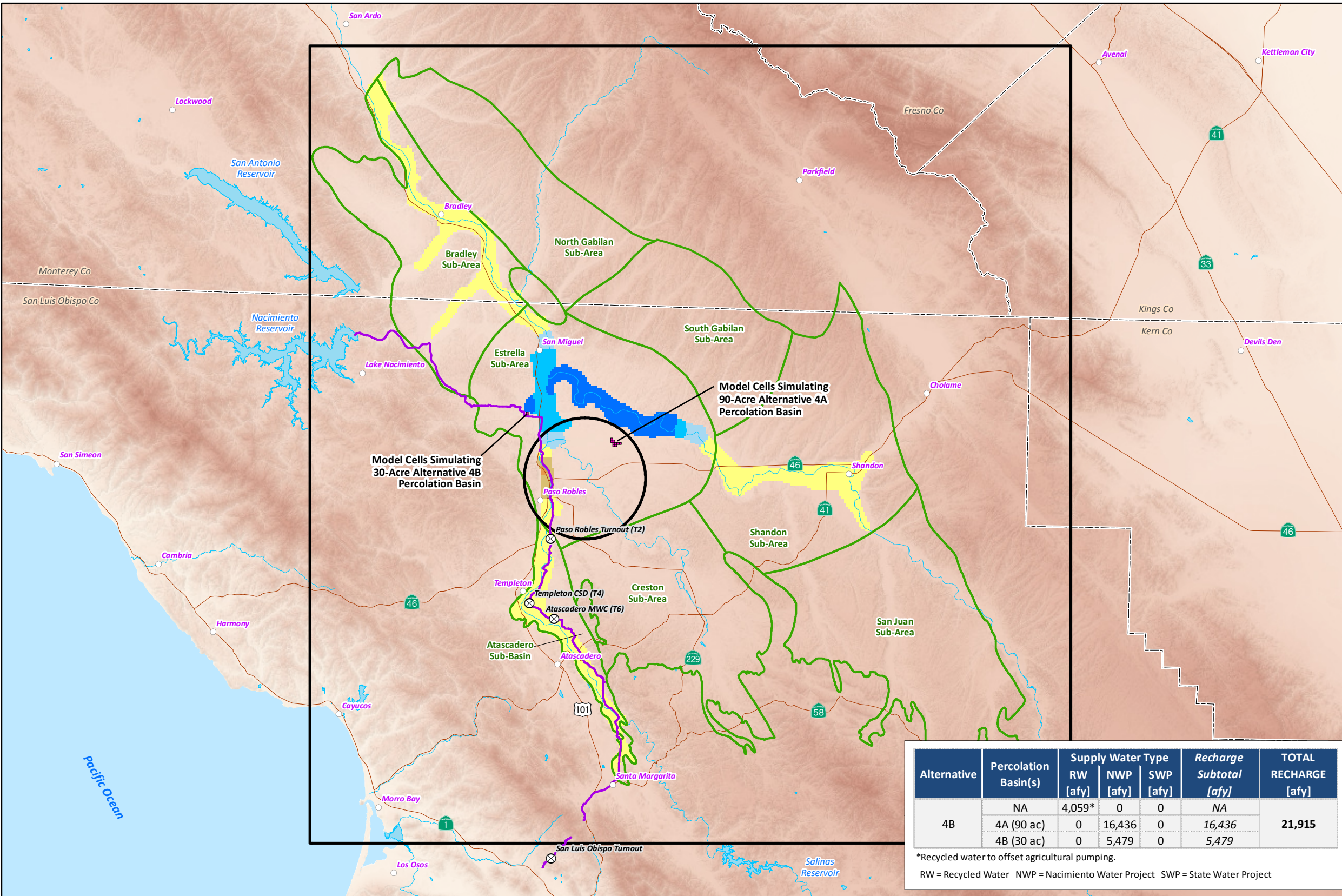
Selected Area to Offset Agricultural Pumping

Nacimiento Water Project (NWP) Pipeline

Nacimiento Water Project Turnout

County Boundary

Notes:  
Model Layer 1 represents recent alluvial deposits.



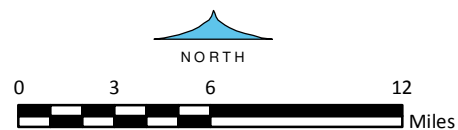
Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
4B	NA	4,059*	0	0	NA	21,915
	4A (90 ac)	0	16,436	0	16,436	
	4B (30 ac)	0	5,479	0	5,479	

\*Recycled water to offset agricultural pumping.  
RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

6-Dec-16

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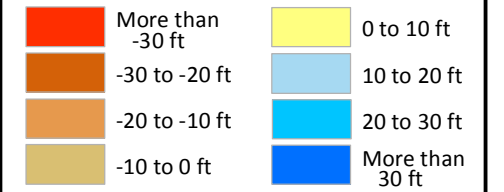
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**Figure 77**

**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 4B AND UPDATED BASELINE (MODEL LAYER 2)**

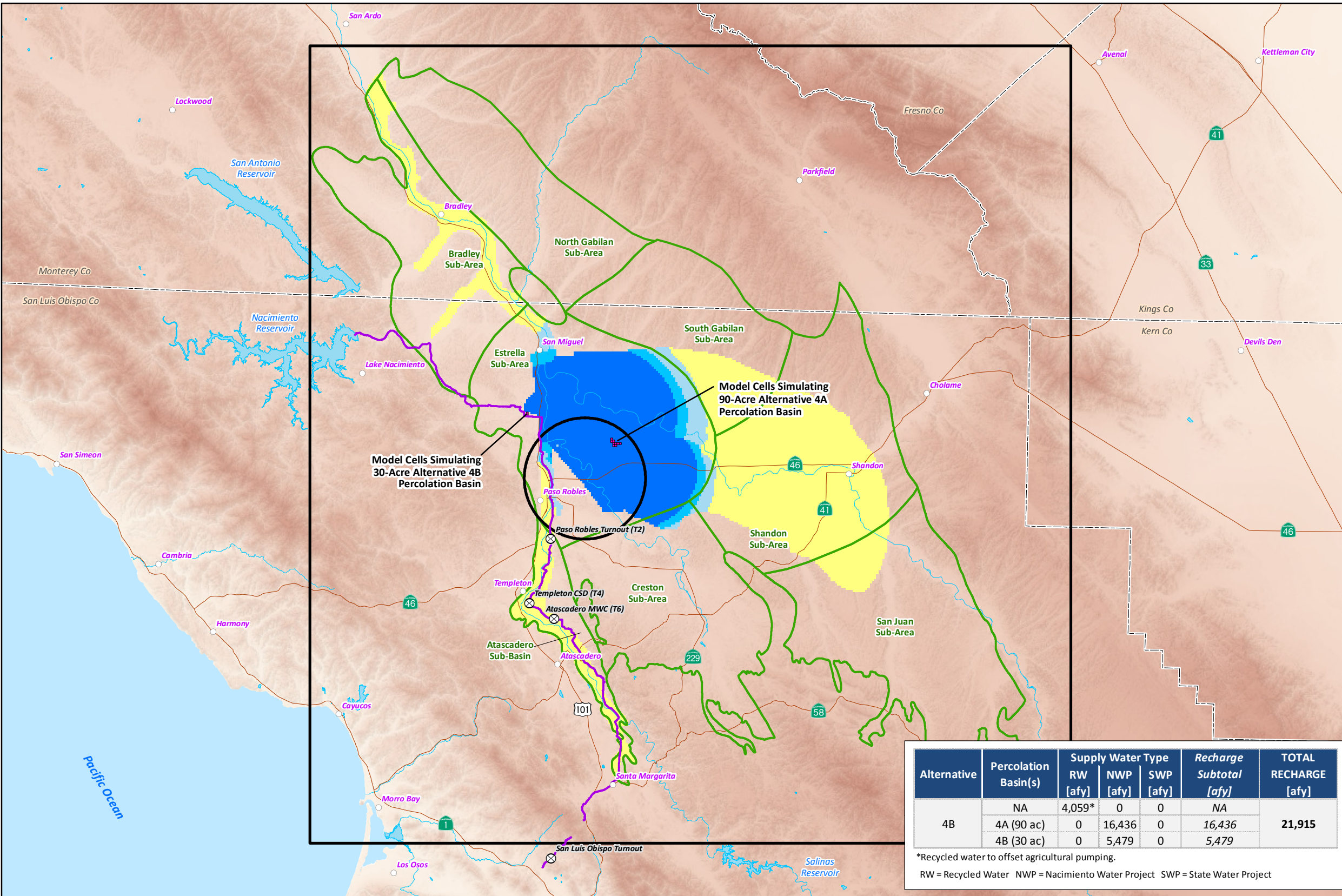
**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)



- Model Cell Used to Simulate Percolation Basin
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Selected Area to Offset Agricultural Pumping
- Nacimiento Water Project (NWP) Pipeline
- Nacimiento Water Project Turnout
- County Boundary

Notes:  
Model Layer 2 represents the upper portion of the Paso Robles Formation.



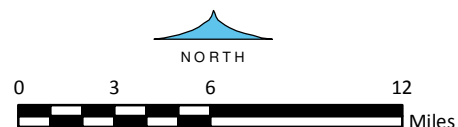
Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
4B	NA	4,059*	0	0	NA	21,915
	4A (90 ac)	0	16,436	0	16,436	
	4B (30 ac)	0	5,479	0	5,479	

\*Recycled water to offset agricultural pumping.  
RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

6-Dec-16

Prepared by: DB. Map Projection: State Plane 1983, Zone V.

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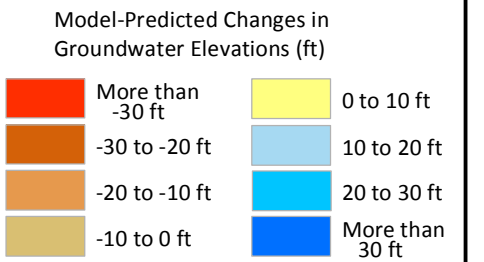
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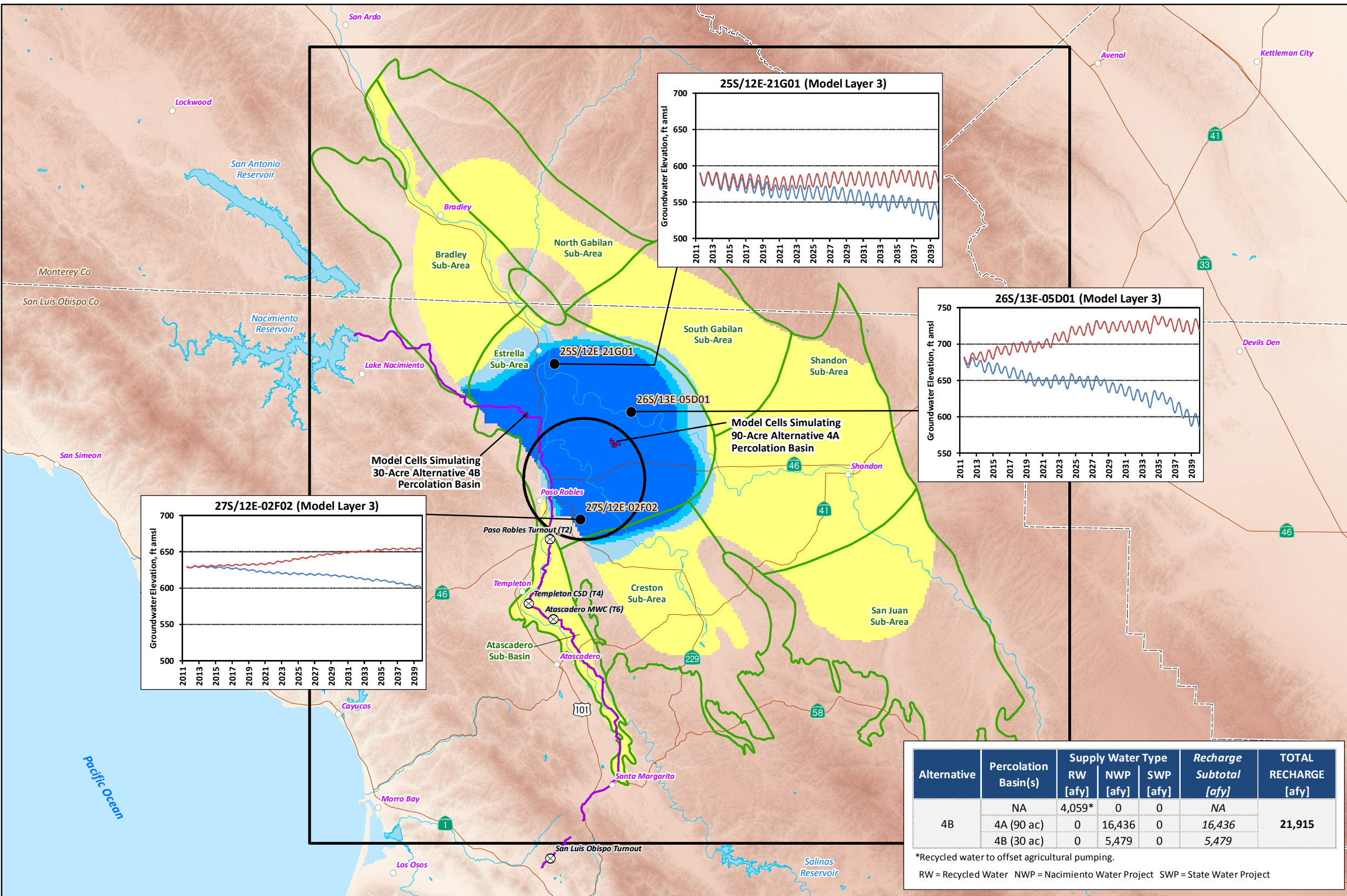
**Figure 78**

**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 4B AND UPDATED BASELINE (MODEL LAYER 3)**

**EXPLANATION**



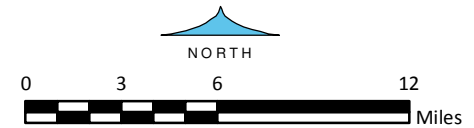
- BMO Target Well
- Model-Predicted Groundwater Elevation
  - Alternative
  - Updated Baseline
- Model Cell Used to Simulate Percolation Basin
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Selected Area to Offset Agricultural Pumping
- Nacimiento Water Project (NWP) Pipeline
- ⊗ Nacimiento Water Project Turnout
- - - County Boundary



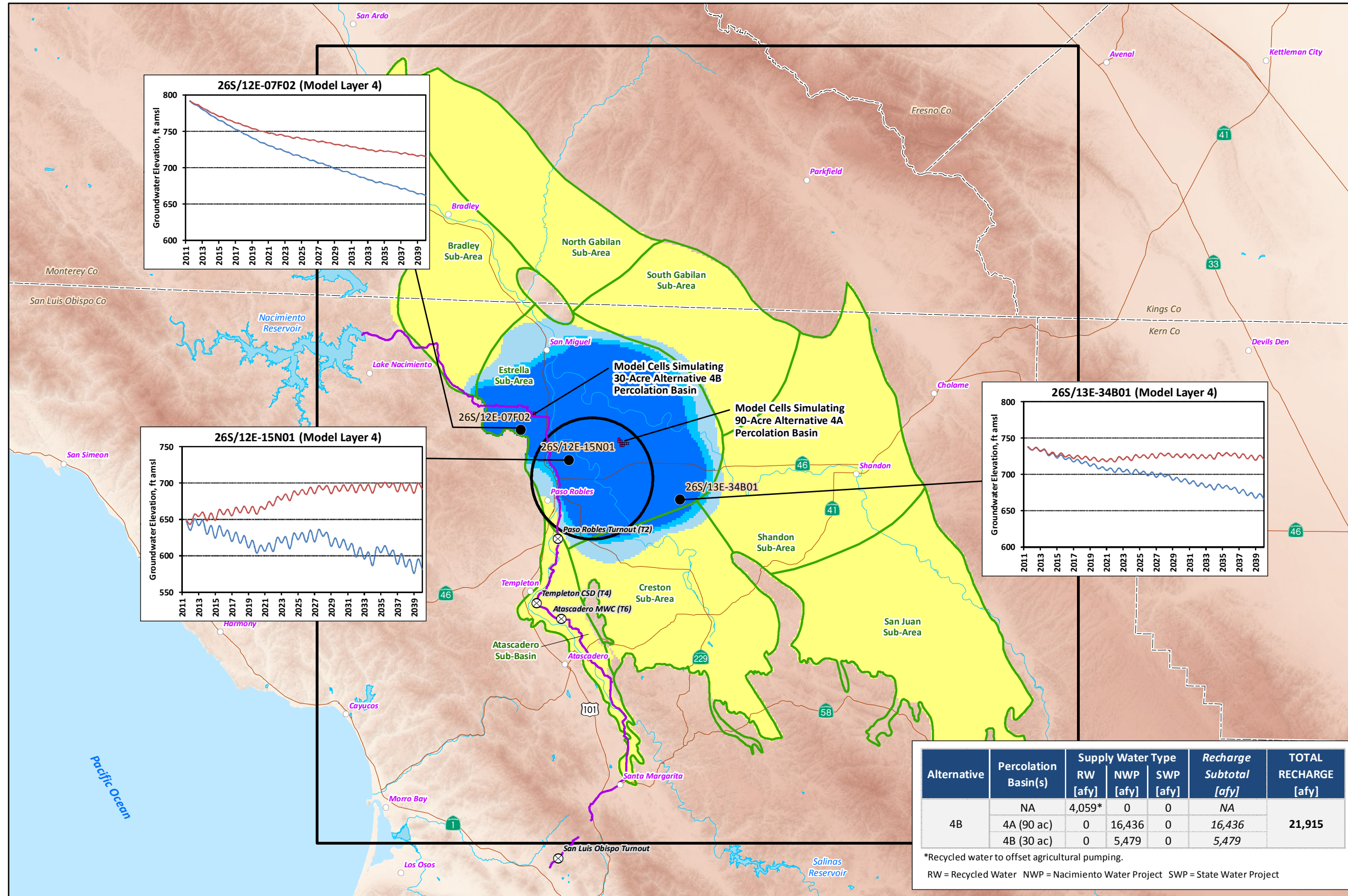
Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
4B	NA	4,059*	0	0	NA	21,915
	4A (90 ac)	0	16,436	0	16,436	
	4B (30 ac)	0	5,479	0	5,479	

\*Recycled water to offset agricultural pumping.  
 RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

Notes:  
 Model Layer 3 represents the portion of the Paso Robles Formation which covers most of the basin.







**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 4B AND UPDATED BASELINE (MODEL LAYER 4)**

**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

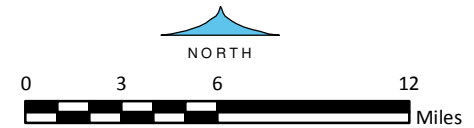
More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

- BMO Target Well
- Model-Predicted Groundwater Elevation
  - Alternative
  - Updated Baseline
- Model Cell Used to Simulate Percolation Basin
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Selected Area to Offset Agricultural Pumping
- Nacimiento Water Project (NWP) Pipeline
- ⊗ Nacimiento Water Project Turnout
- - - County Boundary

Notes:  
Model Layer 4 represents the deepest portion of the Paso Robles Formation.

Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
4B	NA	4,059*	0	0	NA	21,915
	4A (90 ac)	0	16,436	0	16,436	
	4B (30 ac)	0	5,479	0	5,479	

\*Recycled water to offset agricultural pumping.  
RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project



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### Spring Water Surface Elevation (WSE) Trends - Alternative 5A1 (2012-2040) Estrella Sub-Area

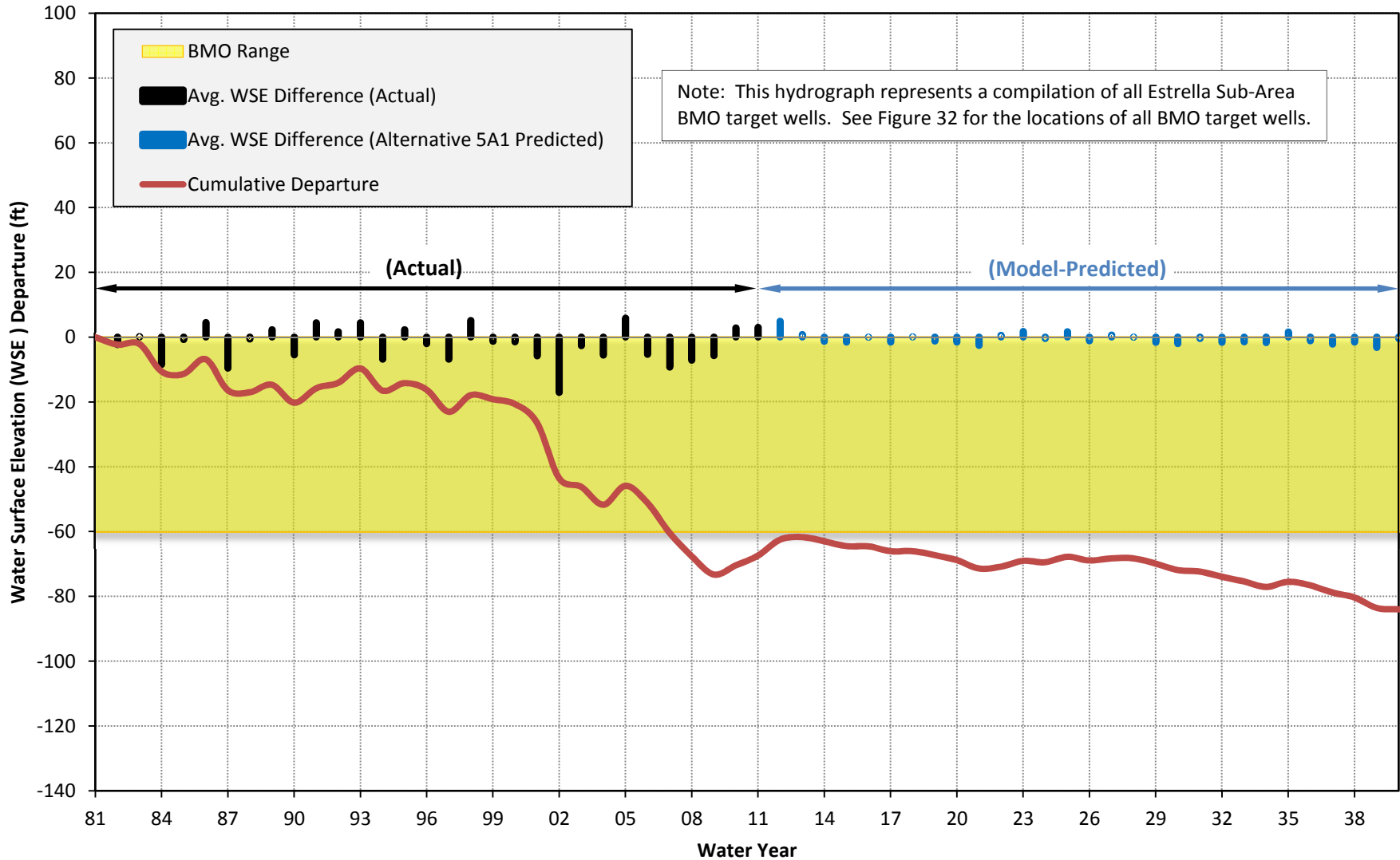
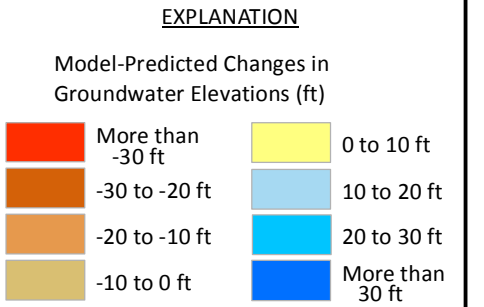
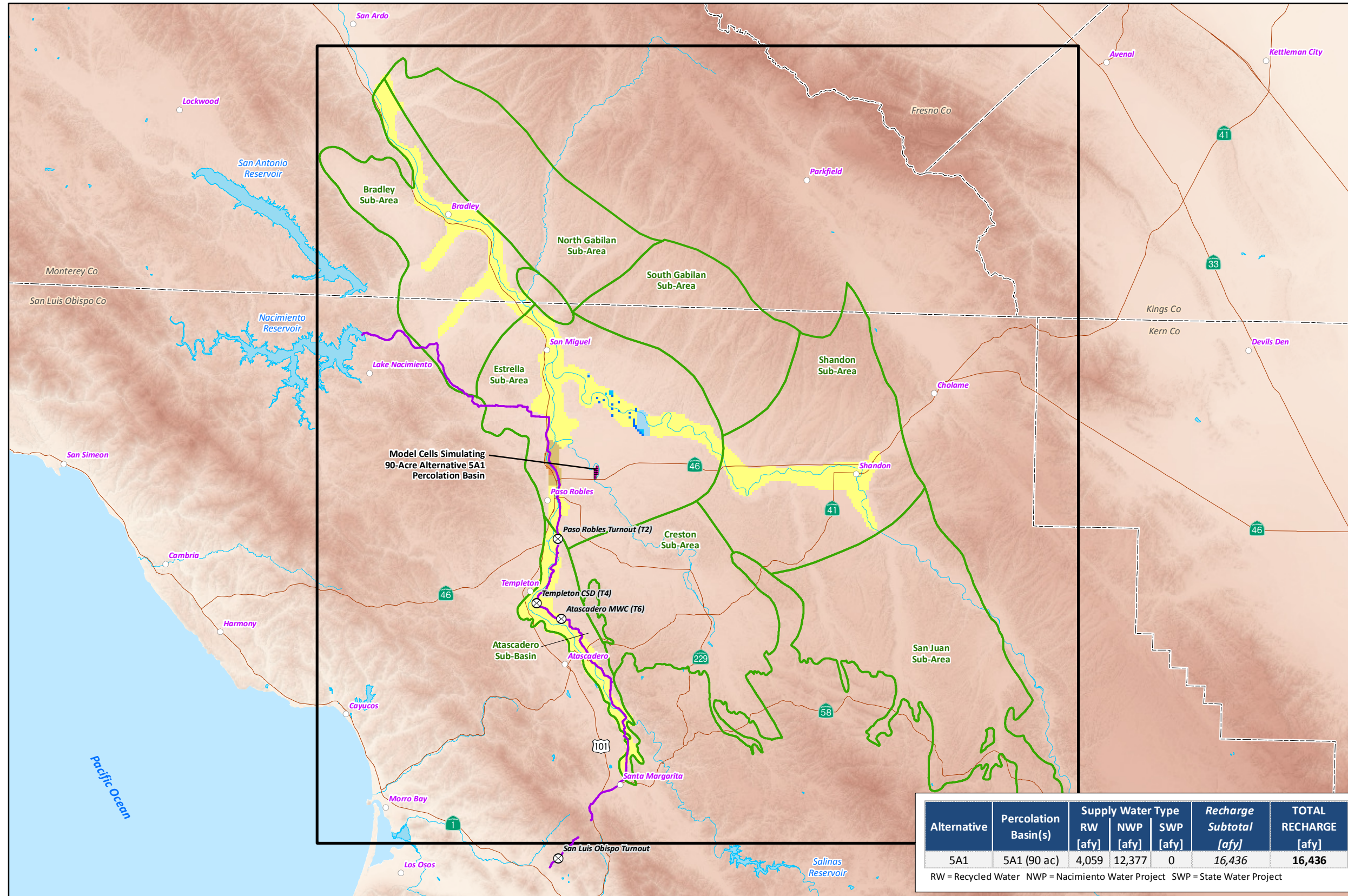


Figure 81

**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 5A1 AND UPDATED BASELINE (MODEL LAYER 1)**



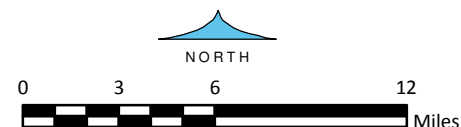
- Model Cell Used to Simulate Percolation Basin
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- Nacimiento Water Project Turnout
- County Boundary

Notes:  
Model Layer 1 represents recent alluvial deposits.

6-Dec-16

Prepared by: DB. Map Projection: State Plane 1983, Zone V.

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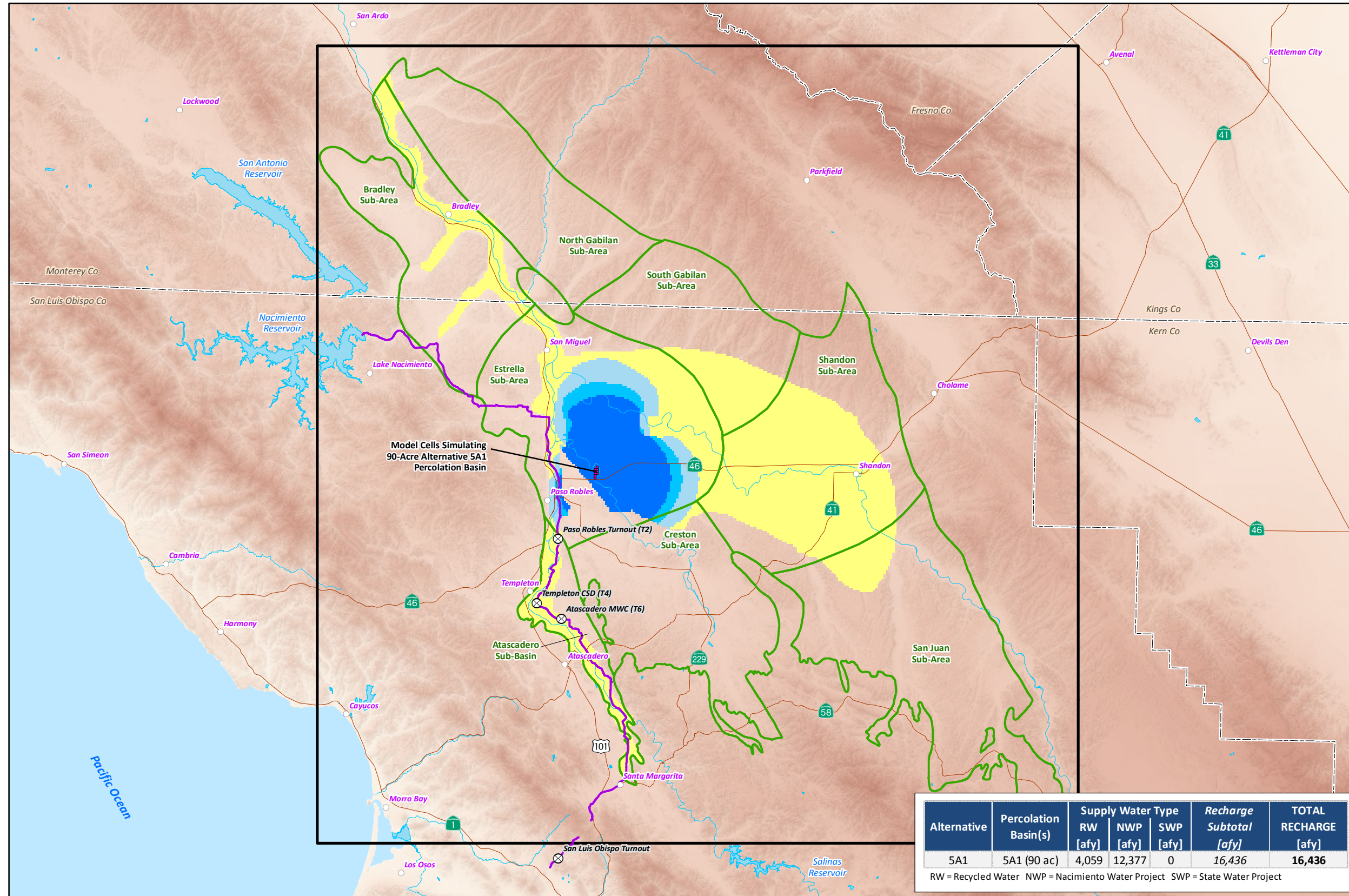


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**Figure 82**

**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 5A1 AND UPDATED BASELINE (MODEL LAYER 2)**



**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

- Model Cell Used to Simulate Percolation Basin
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- Nacimiento Water Project Turnout
- County Boundary

Notes:  
Model Layer 2 represents the upper portion of the Paso Robles Formation.

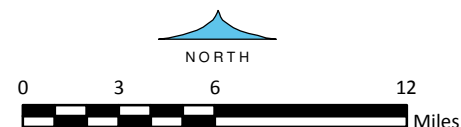
Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
5A1	5A1 (90 ac)	4,059	12,377	0	16,436	16,436

RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

6-Dec-16

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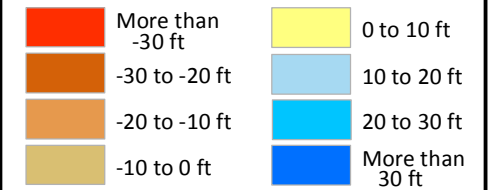
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**Figure 83**

**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 5A1 AND UPDATED BASELINE (MODEL LAYER 3)**

**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)



● BMO Target Well

Model-Predicted Groundwater Elevation

— Alternative  
— Updated Baseline

■ Model Cell Used to Simulate Percolation Basin

□ Paso Robles Groundwater Basin Model Domain

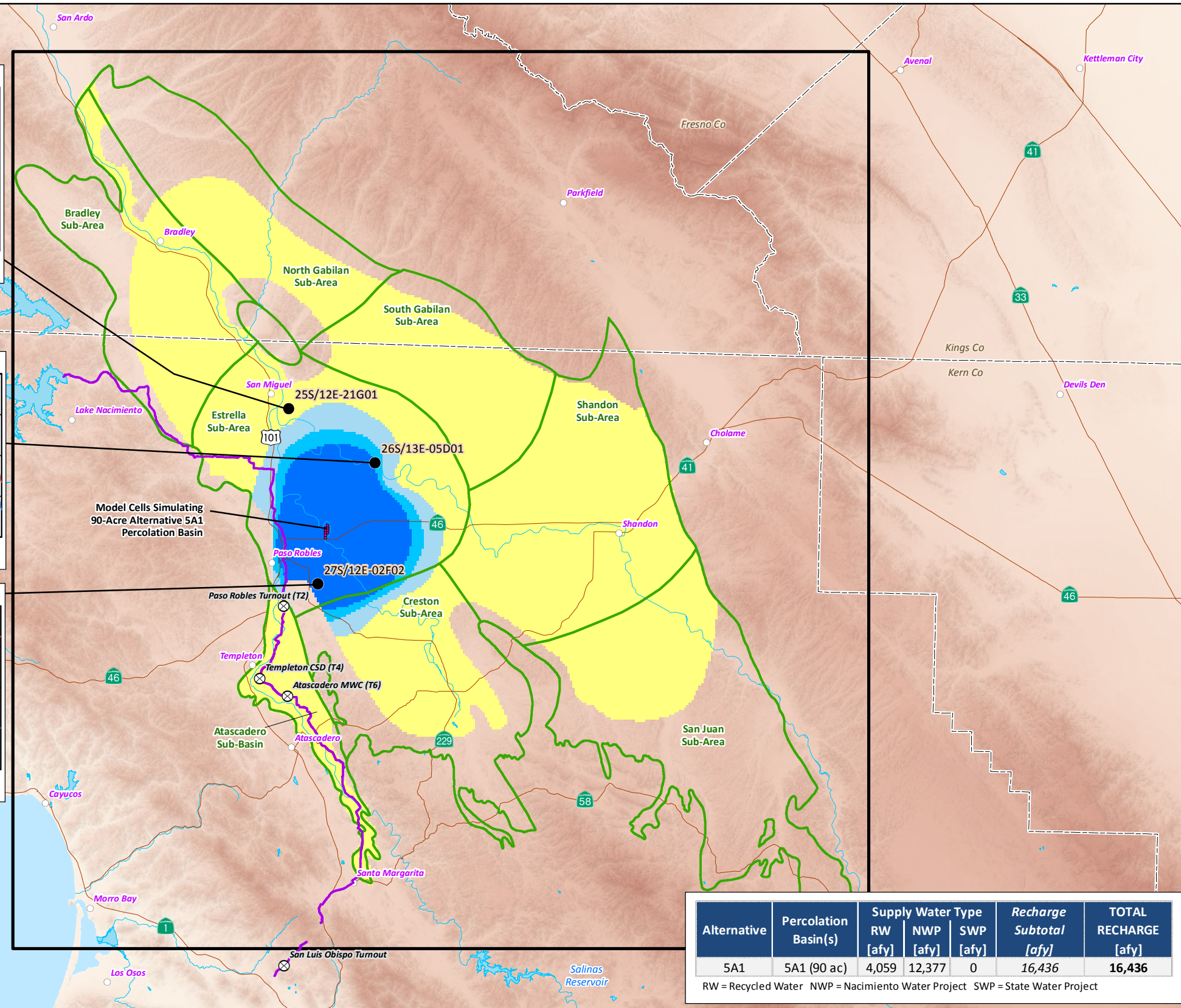
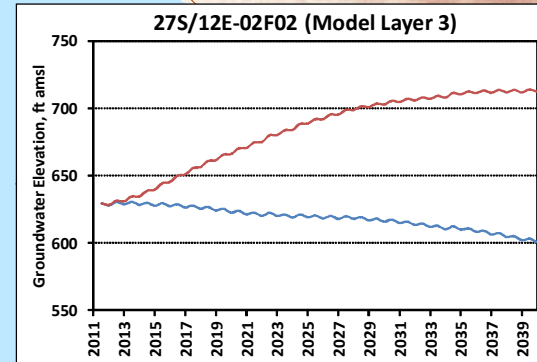
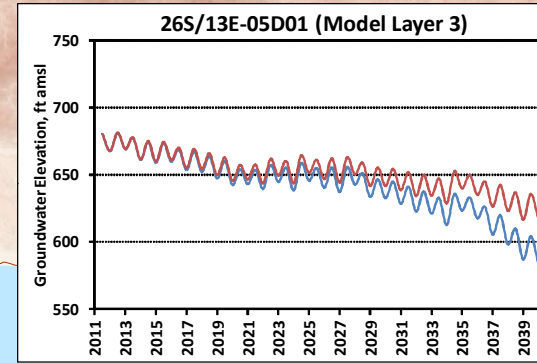
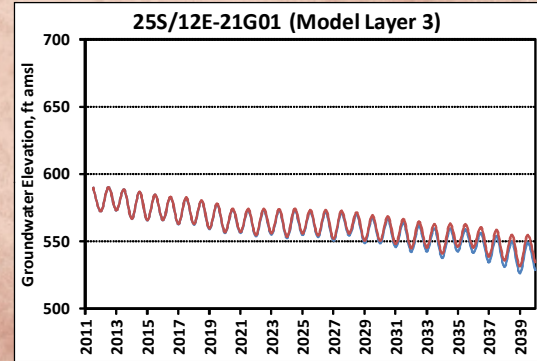
□ Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)

— Nacimiento Water Project Pipeline

⊗ Nacimiento Water Project Turnout

--- County Boundary

Notes:  
Model Layer 3 represents the portion of the Paso Robles Formation which covers most of the basin.



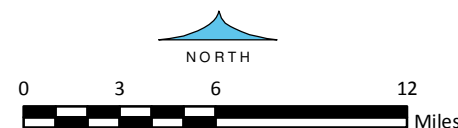
Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
5A1	5A1 (90 ac)	4,059	12,377	0	16,436	16,436

RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

6-Dec-16

Prepared by: DB. Map Projection: State Plane 1983, Zone V.

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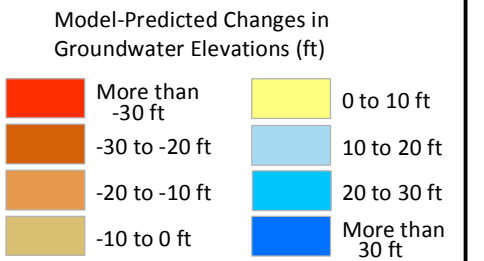
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**Figure 84**

**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 5A1 AND UPDATED BASELINE (MODEL LAYER 4)**

**EXPLANATION**



● BMO Target Well

Model-Predicted Groundwater Elevation  
 — Alternative  
 — Updated Baseline

■ Model Cell Used to Simulate Percolation Basin

□ Paso Robles Groundwater Basin Model Domain

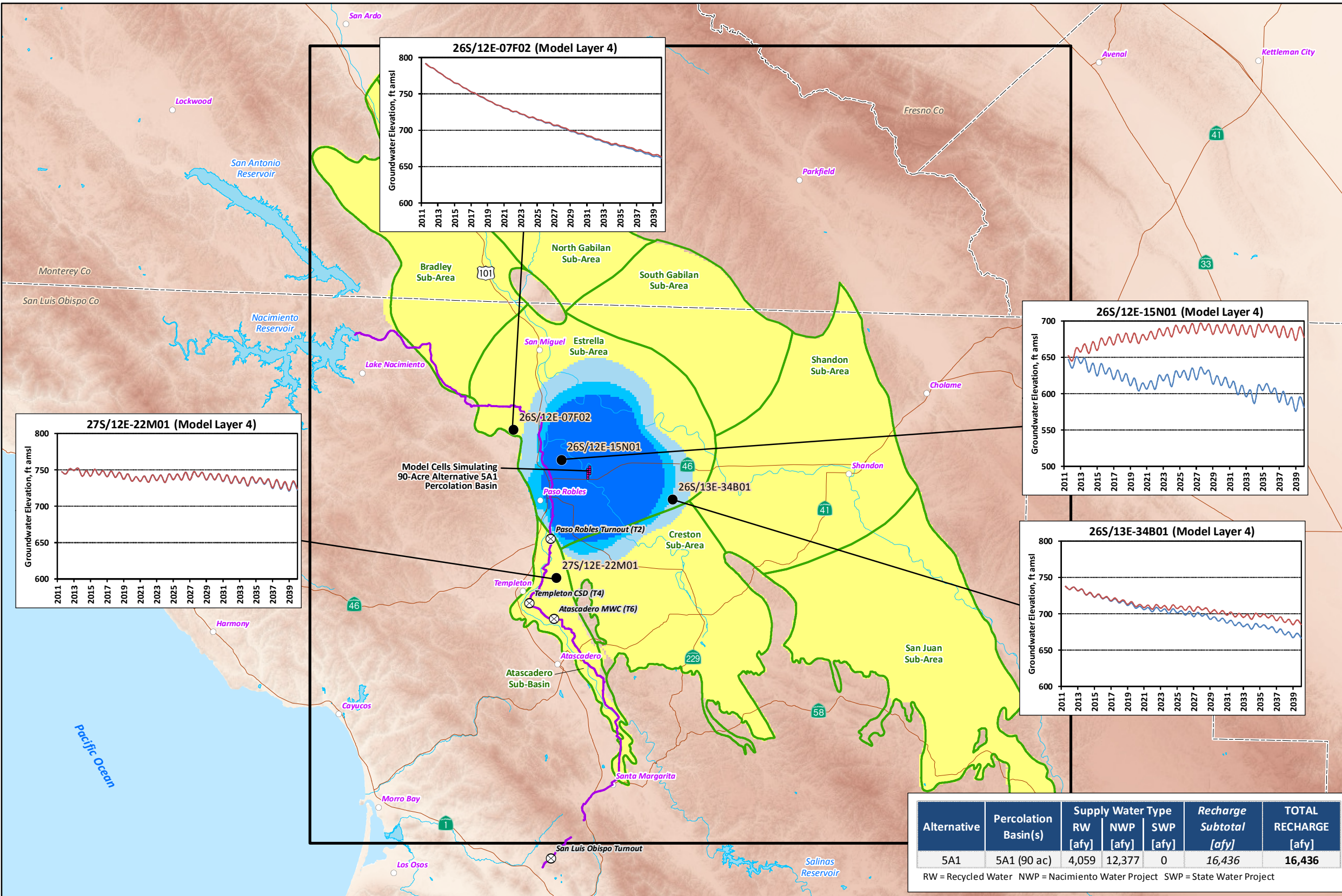
▭ Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)

— Nacimiento Water Project Pipeline

⊗ Nacimiento Water Project Turnout

--- County Boundary

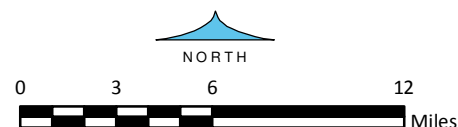
Notes:  
 Model Layer 4 represents the deepest portion of the Paso Robles Formation.



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**Figure 85**

### Spring Water Surface Elevation (WSE) Trends - Alternative 5A2 (2012-2040) Estrella Sub-Area

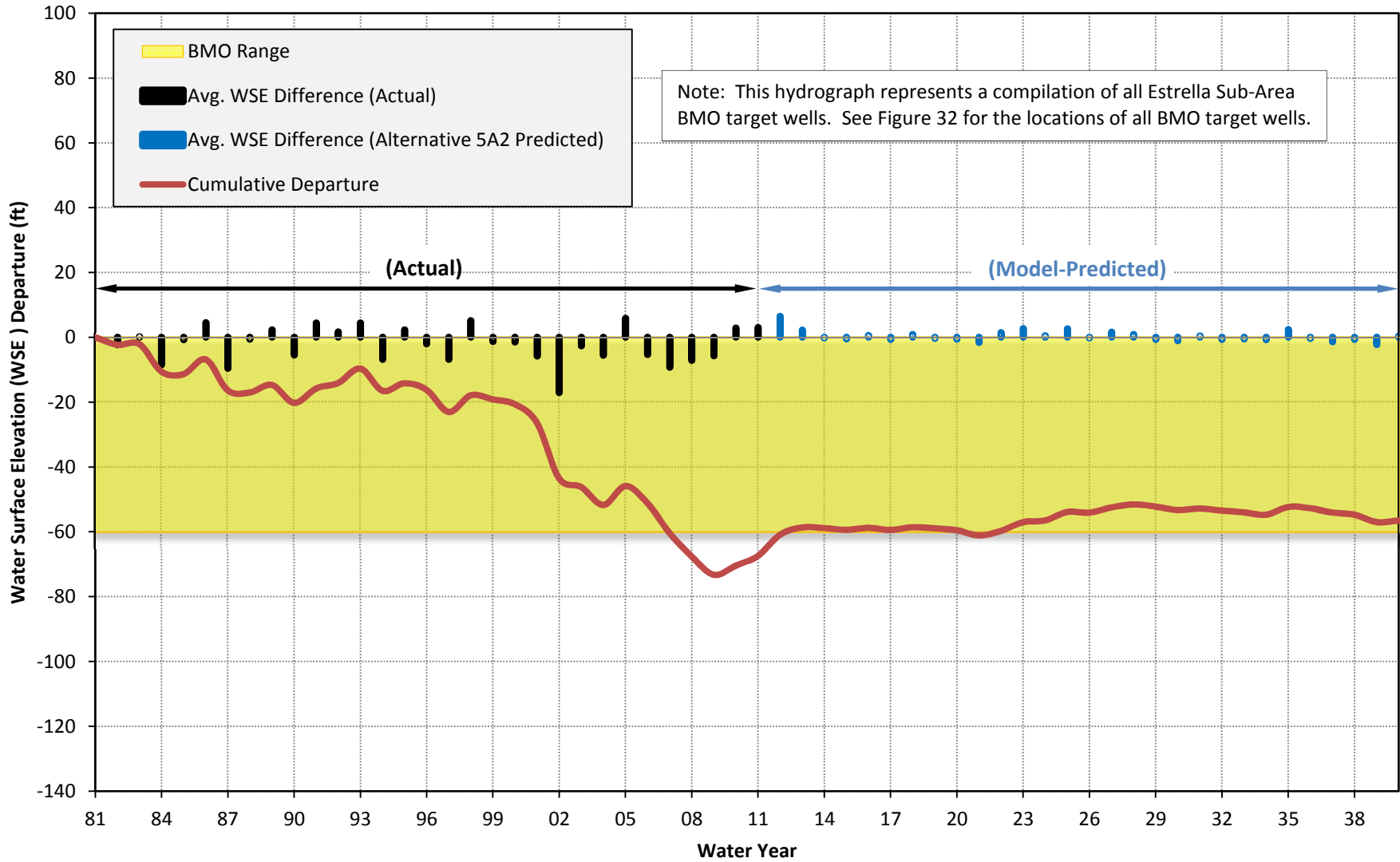
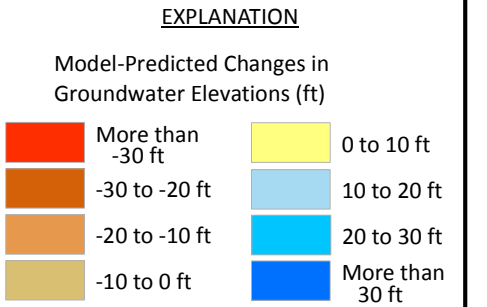
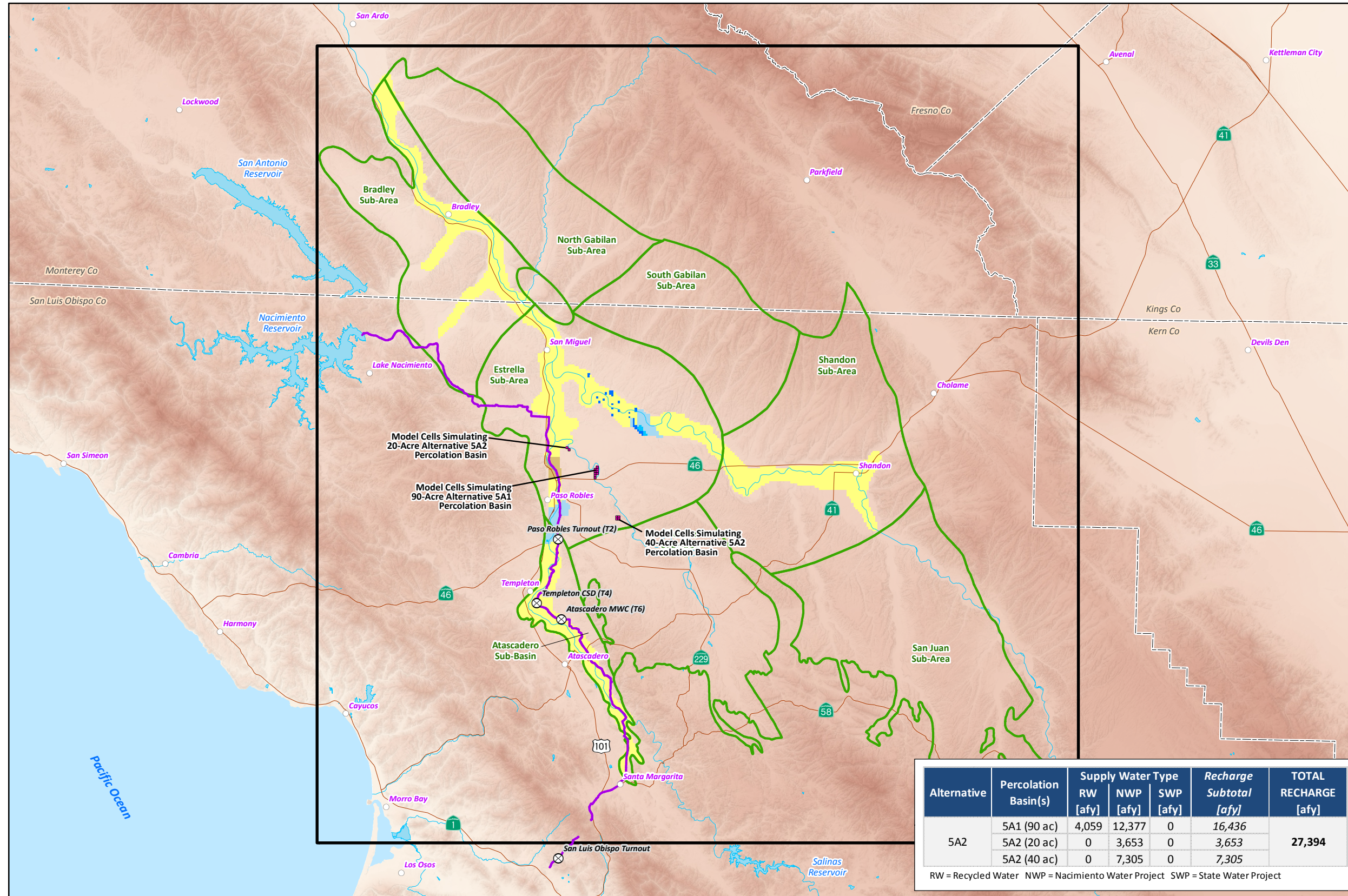


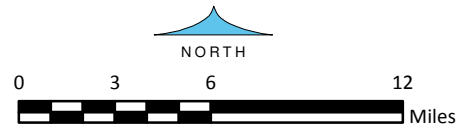
Figure 86

**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 5A2 AND UPDATED BASELINE (MODEL LAYER 1)**

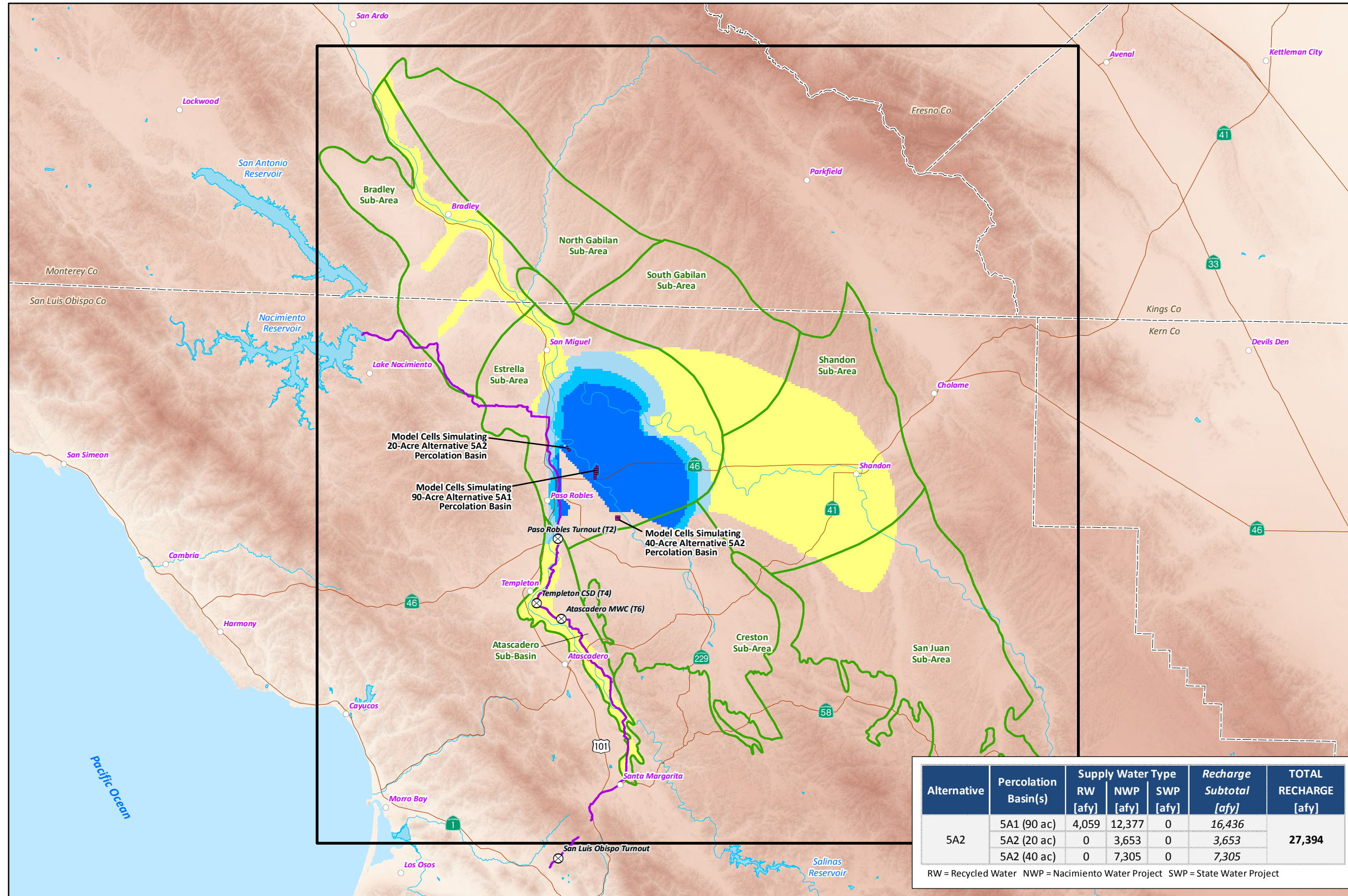


- Model Cell Used to Simulate Percolation Basin
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- Nacimiento Water Project Turnout
- County Boundary

Notes:  
Model Layer 1 represents recent alluvial deposits.

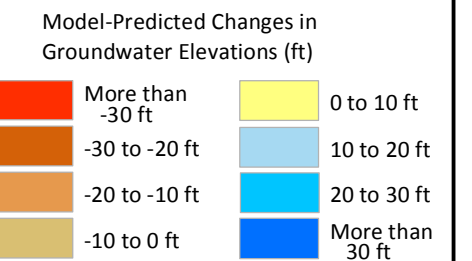






**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 5A2 AND UPDATED BASELINE (MODEL LAYER 2)**

**EXPLANATION**



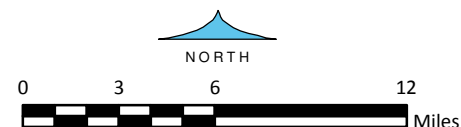
- Model Cell Used to Simulate Percolation Basin
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- Nacimiento Water Project Turnout
- County Boundary

Notes:  
Model Layer 2 represents the upper portion of the Paso Robles Formation.

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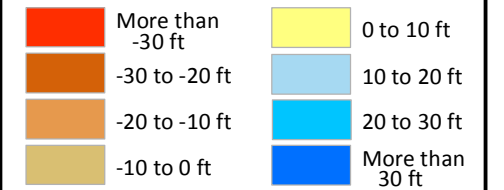
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**Figure 88**

**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 5A2 AND UPDATED BASELINE (MODEL LAYER 3)**

**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)



● BMO Target Well

Model-Predicted Groundwater Elevation

— Alternative  
— Updated Baseline

■ Model Cell Used to Simulate Percolation Basin

□ Paso Robles Groundwater Basin Model Domain

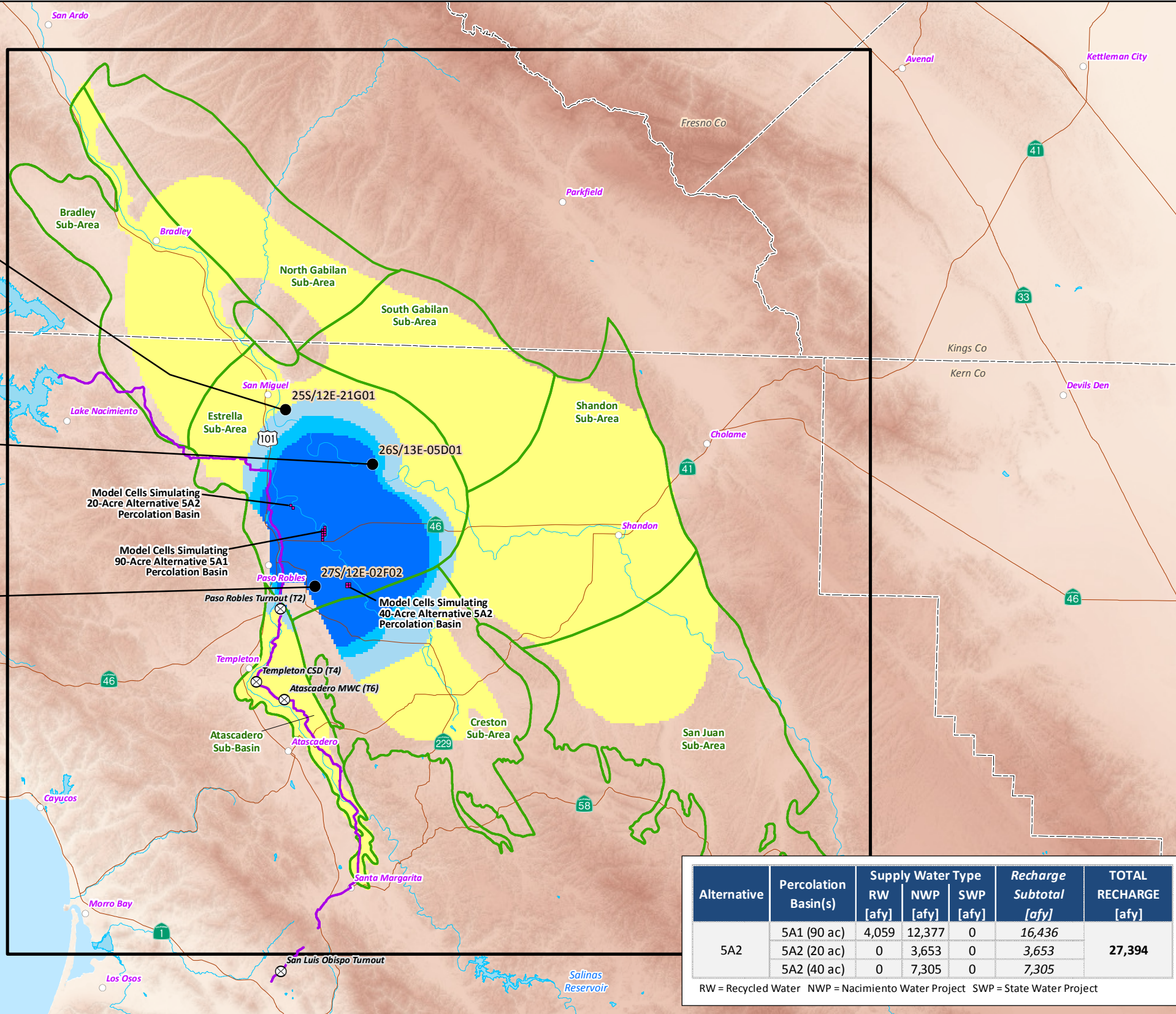
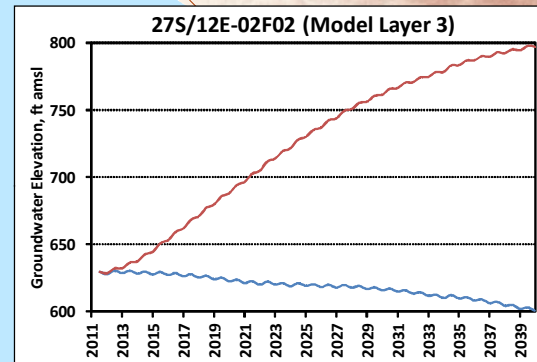
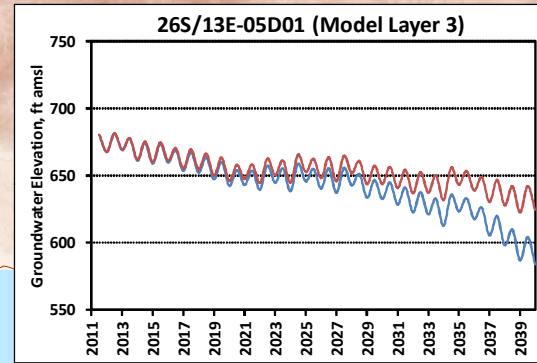
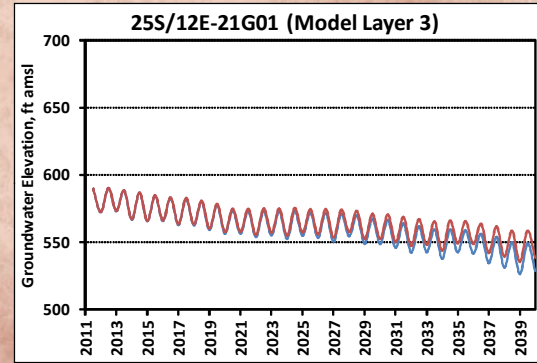
□ Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)

— Nacimiento Water Project Pipeline

⊗ Nacimiento Water Project Turnout

--- County Boundary

Notes:  
Model Layer 3 represents the portion of the Paso Robles Formation which covers most of the basin.



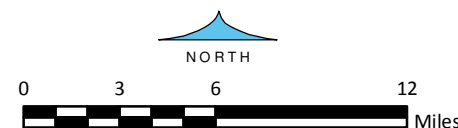
Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
5A2	5A1 (90 ac)	4,059	12,377	0	16,436	27,394
	5A2 (20 ac)	0	3,653	0	3,653	
	5A2 (40 ac)	0	7,305	0	7,305	

RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

6-Dec-16

Prepared by: DB. Map Projection: State Plane 1983, Zone V.

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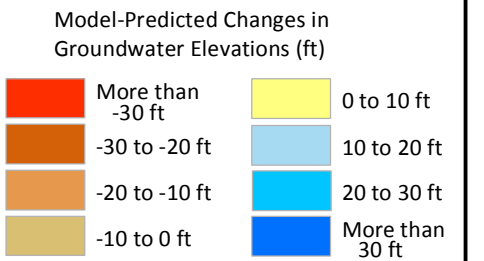
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**Figure 89**

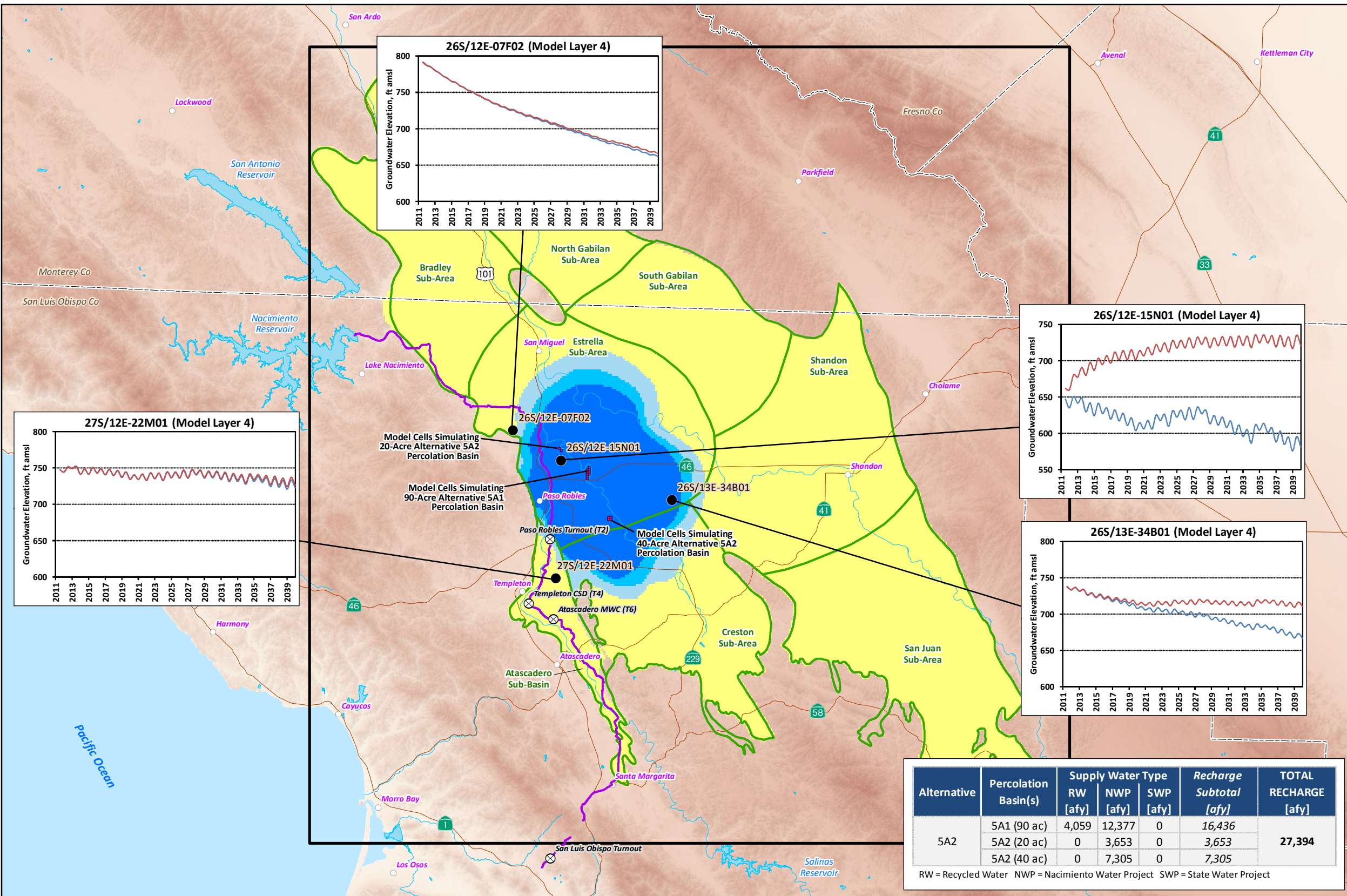
**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 5A2 AND UPDATED BASELINE (MODEL LAYER 4)**

**EXPLANATION**



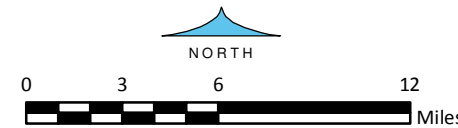
- BMO Target Well
- Model-Predicted Groundwater Elevation
  - Alternative
  - Updated Baseline
- Model Cell Used to Simulate Percolation Basin
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- ⊗ Nacimiento Water Project Turnout
- County Boundary

Notes:  
Model Layer 4 represents the deepest portion of the Paso Robles Formation.



Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
5A2	5A1 (90 ac)	4,059	12,377	0	16,436	27,394
	5A2 (20 ac)	0	3,653	0	3,653	
	5A2 (40 ac)	0	7,305	0	7,305	

RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project



**Spring Water Surface Elevation (WSE) Trends - Alternative 5B1 (2012-2040)**  
**Estrella Sub-Area**

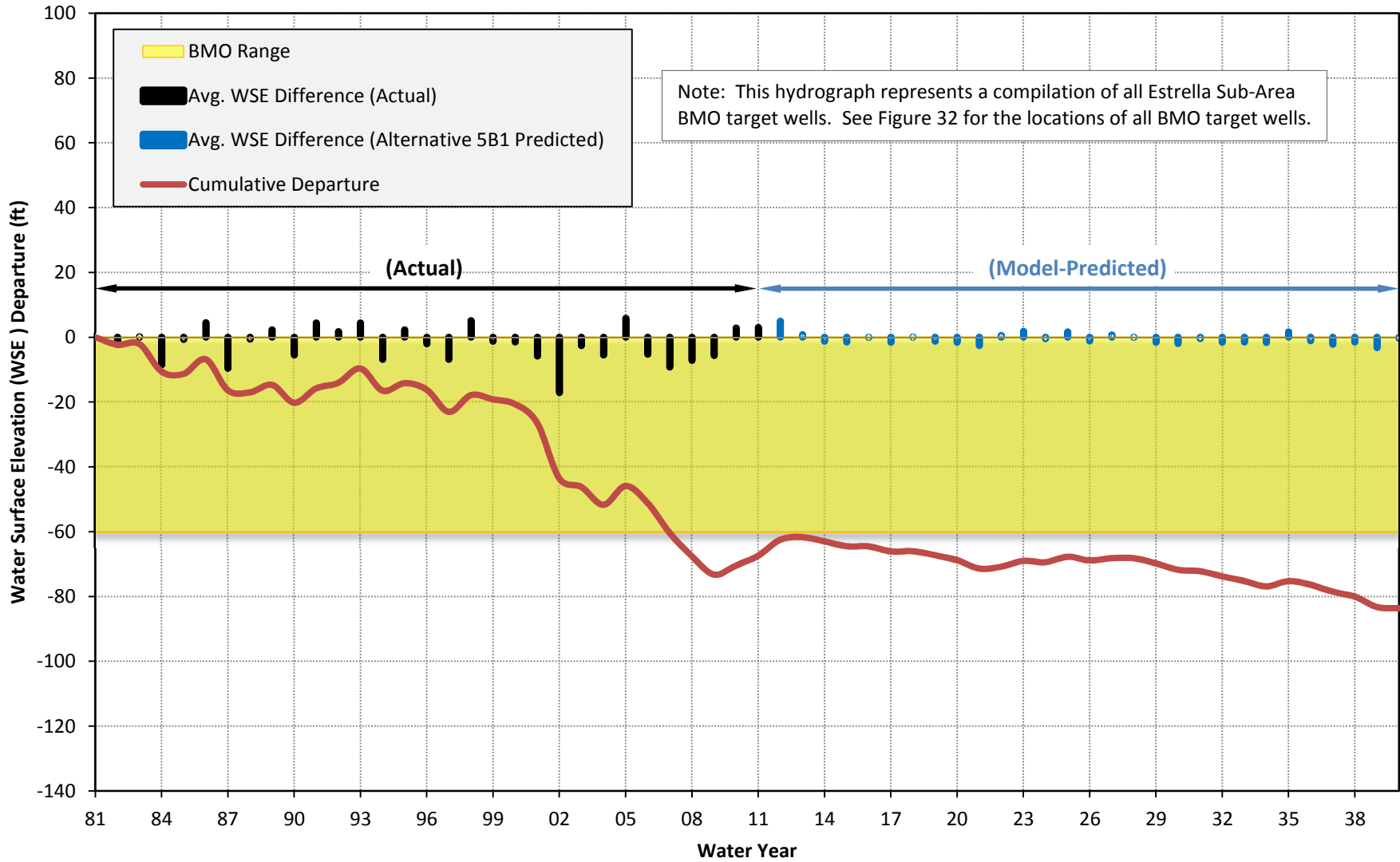


Figure 91

### Spring Water Surface Elevation (WSE) Trends - Alternative 5B1 (2012-2040) Creston Sub-Area

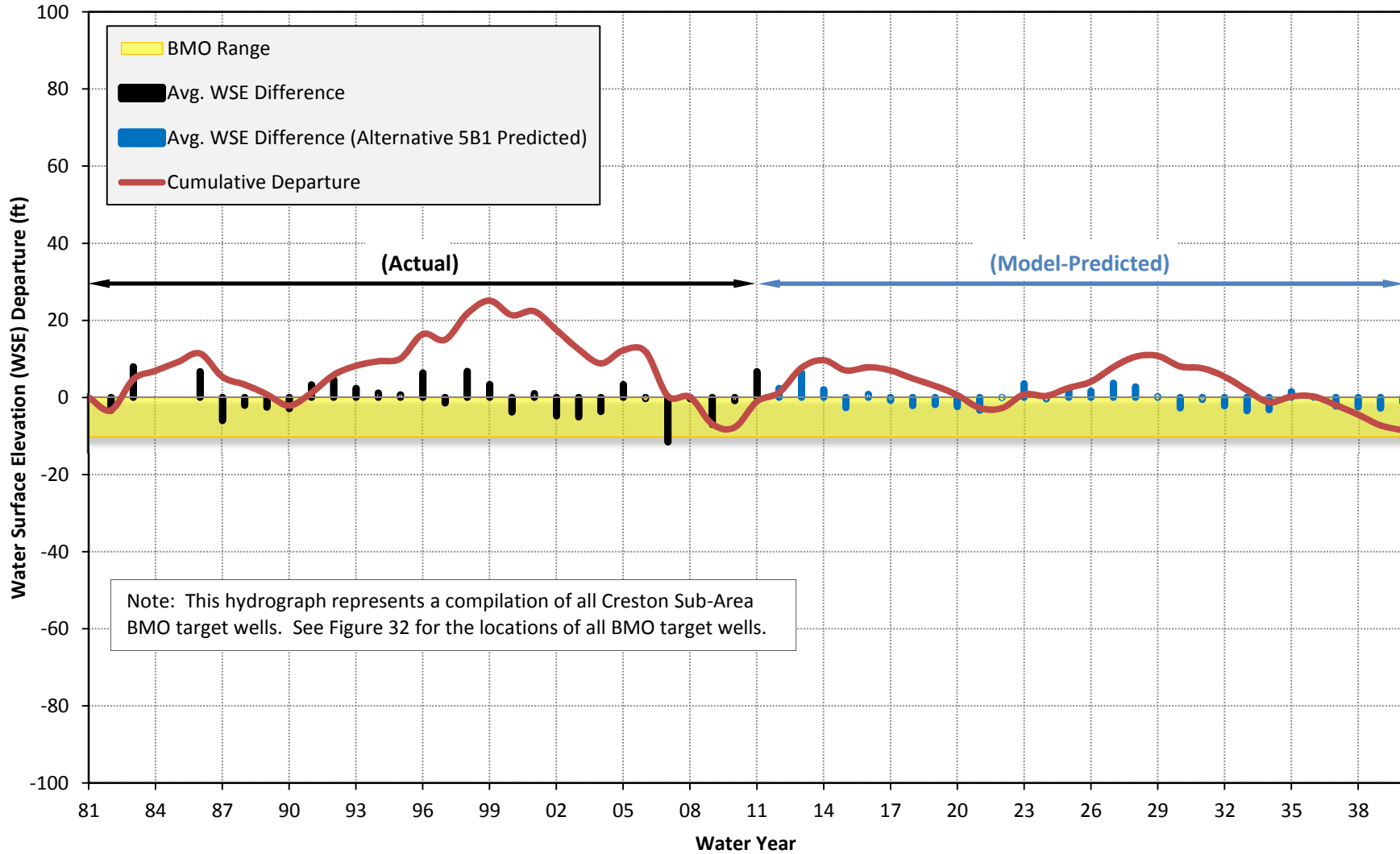
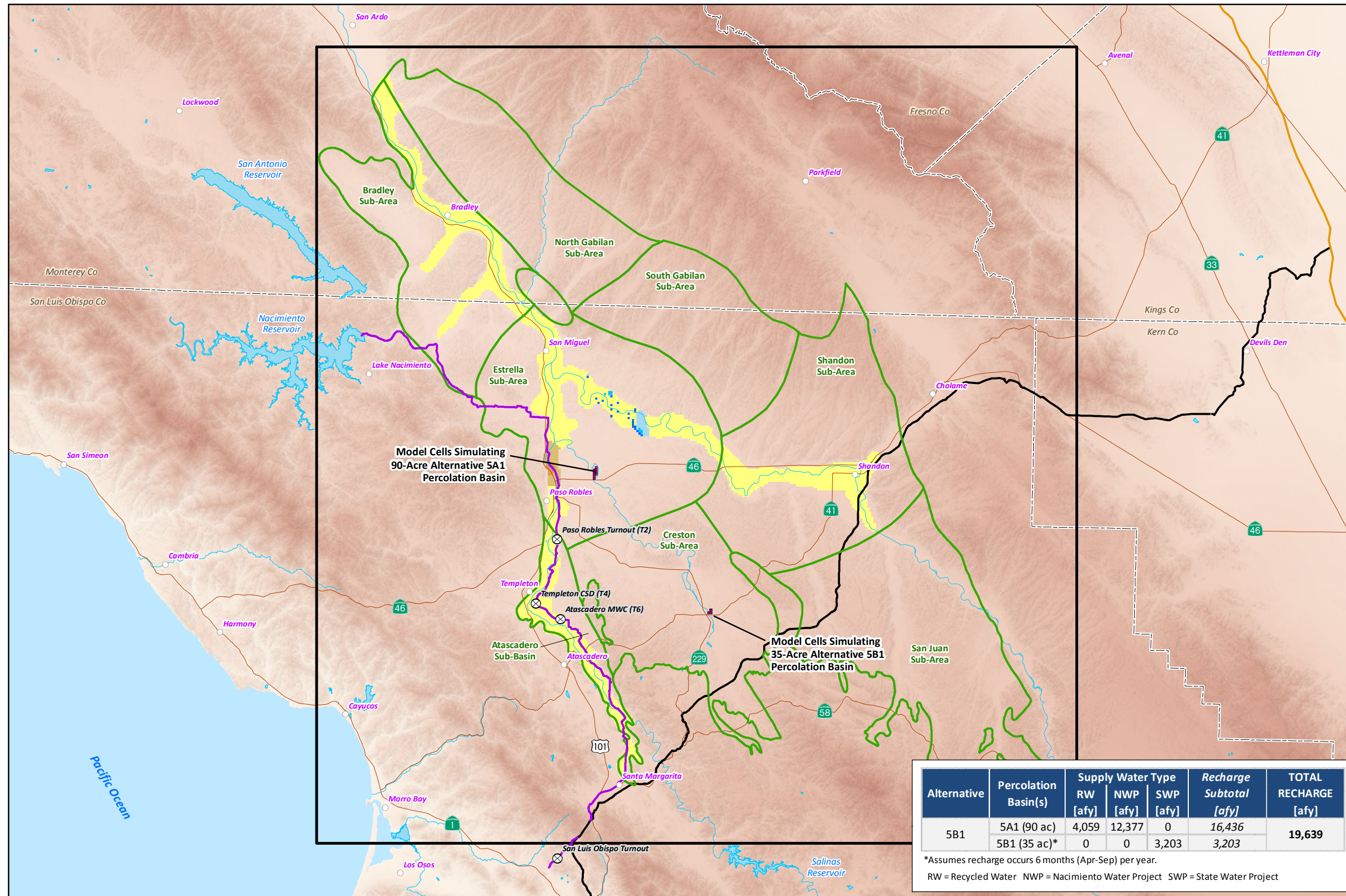


Figure 92

**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 5B1 AND UPDATED BASELINE (MODEL LAYER 1)**



**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

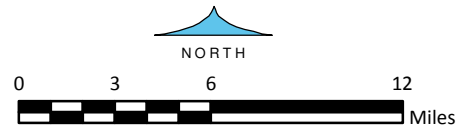
More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

- Model Cell Used to Simulate Percolation Basin
- California Aqueduct
- Coastal Branch of the State Water Project Pipeline
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- ⊗ Nacimiento Water Project Turnout
- County Boundary

Notes:  
Model Layer 1 represents recent alluvial deposits.

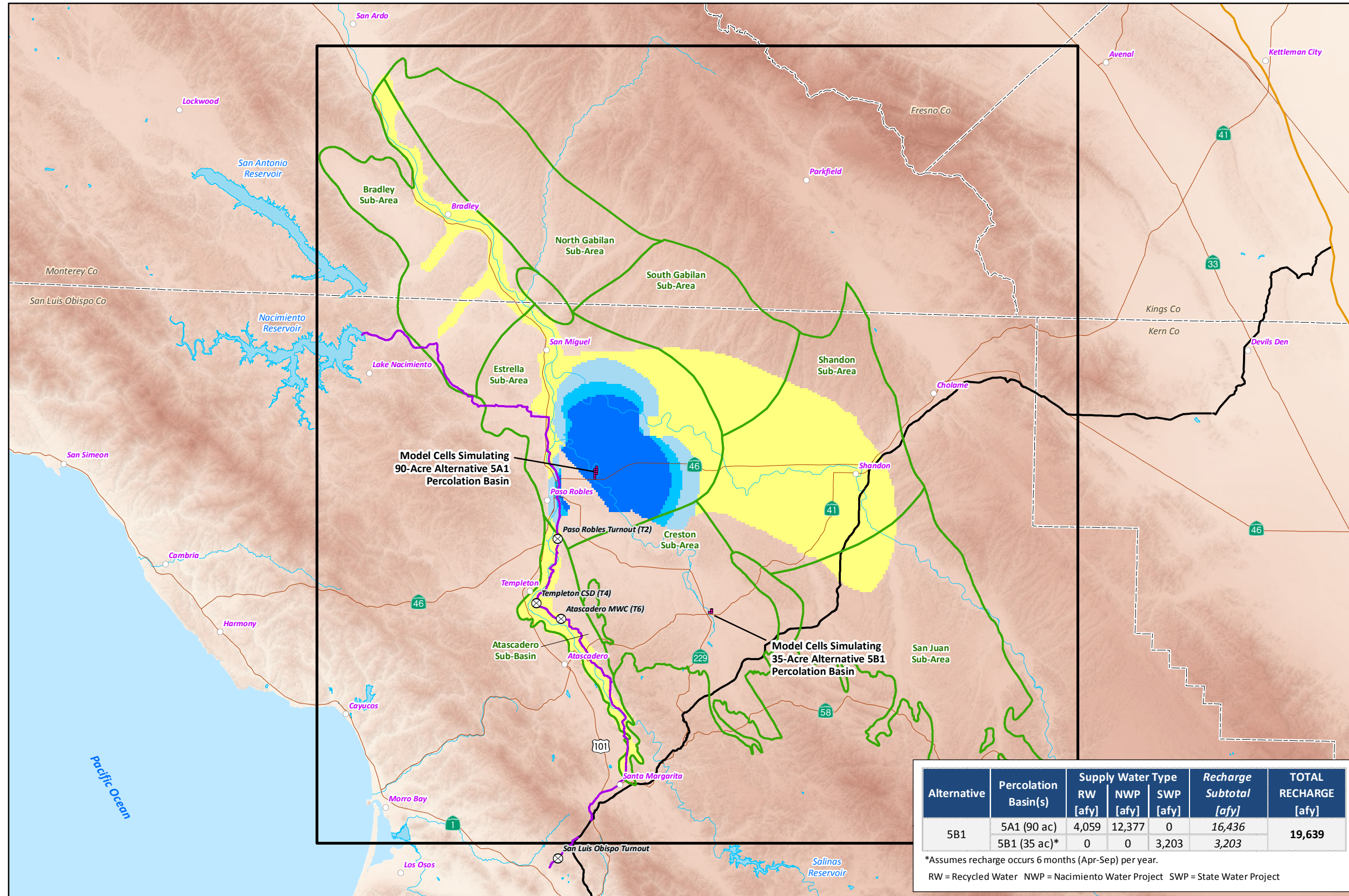
Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
5B1	5A1 (90 ac)	4,059	12,377	0	16,436	19,639
	5B1 (35 ac)*	0	0	3,203	3,203	

\*Assumes recharge occurs 6 months (Apr-Sep) per year.  
RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project



W:\GIS\_proj\co\_slo\_paso\_robles\_model\34\_Fig\_93\_L1\_gw\_elev\_change\_flood\_Alt5B1andbaseline\_12-16.mxd

**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 5B1 AND UPDATED BASELINE (MODEL LAYER 2)**



**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

- Model Cell Used to Simulate Percolation Basin
- California Aqueduct
- Coastal Branch of the State Water Project Pipeline
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- ⊗ Nacimiento Water Project Turnout
- - - County Boundary

Notes:  
Model Layer 2 represents the upper portion of the Paso Robles Formation.

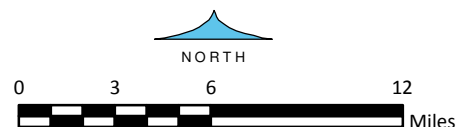
Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
5B1	5A1 (90 ac)	4,059	12,377	0	16,436	19,639
	5B1 (35 ac)*	0	0	3,203	3,203	

\*Assumes recharge occurs 6 months (Apr-Sep) per year.  
RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

6-Dec-16

Prepared by: DB. Map Projection: State Plane 1983, Zone V.

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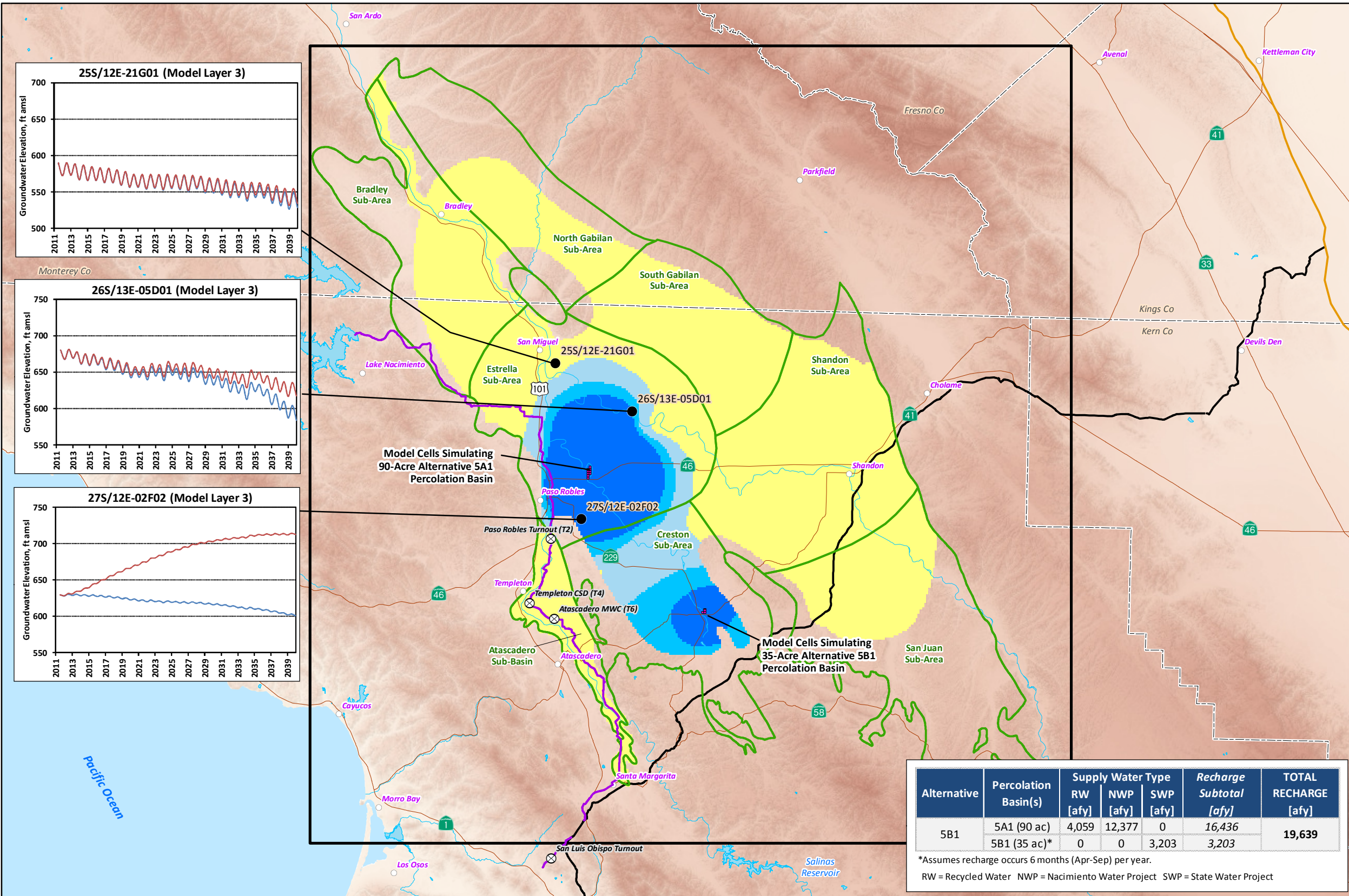


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**Figure 94**

**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 5B1 AND UPDATED BASELINE (MODEL LAYER 3)**



**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

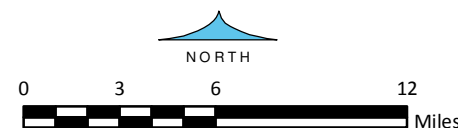
More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

- BMO Target Well
- Model-Predicted Groundwater Elevation
  - Alternative
  - Updated Baseline
- Model Cell Used to Simulate Percolation Basin
- California Aqueduct
- Coastal Branch of the State Water Project Pipeline
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- ⊗ Nacimiento Water Project Turnout
- County Boundary

Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
5B1	5A1 (90 ac)	4,059	12,377	0	16,436	19,639
	5B1 (35 ac)*	0	0	3,203		

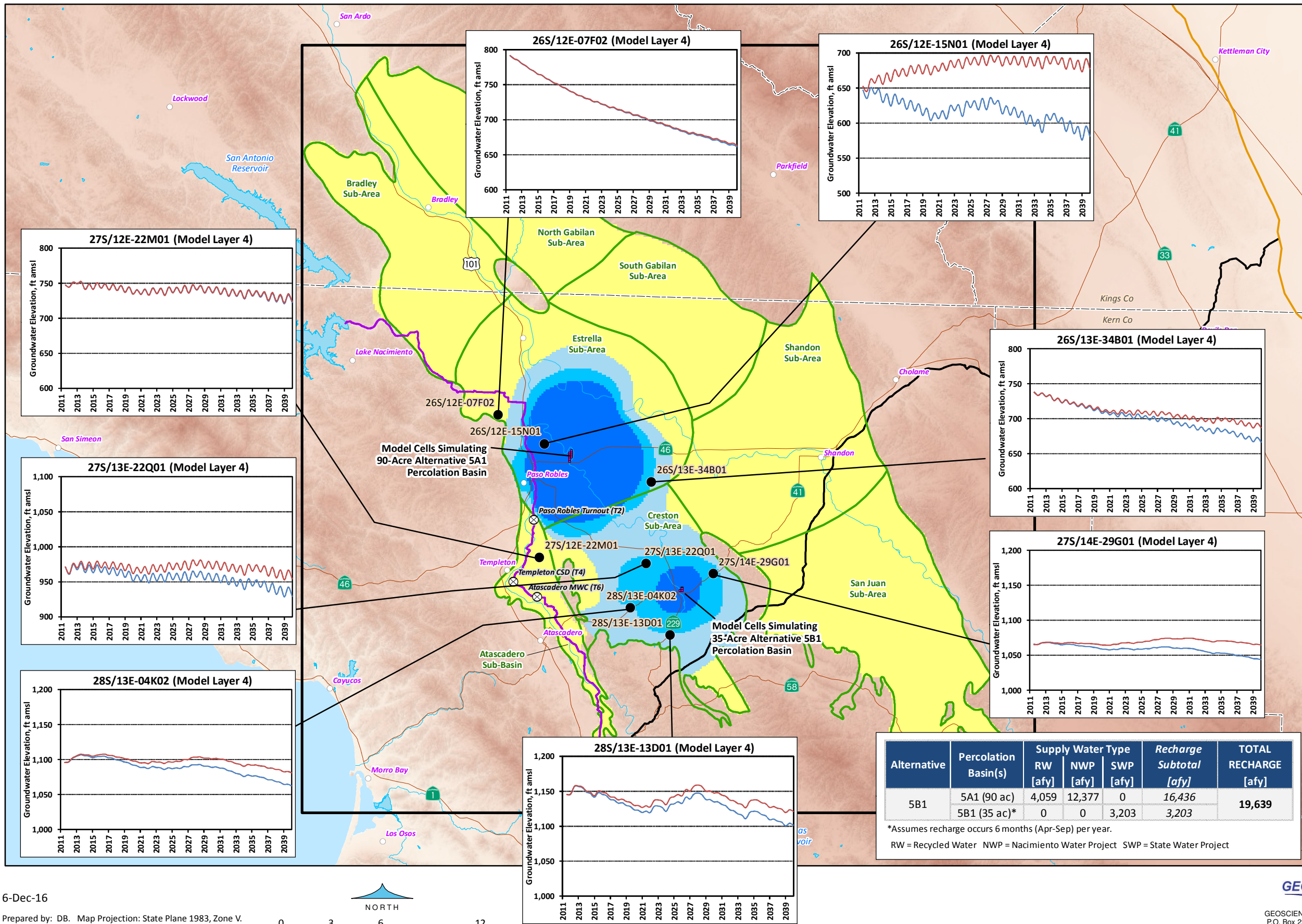
\*Assumes recharge occurs 6 months (Apr-Sep) per year.  
 RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

Notes:  
 Model Layer 3 represents the portion of the Paso Robles Formation which covers most of the basin.



W:\GIS\_proj\co\_slo\_paso\_robles\_model\34\_Fig\_95\_L3\_gw\_elev\_change\_flood\_Alt5B1andbaseline\_12-16.mxd





**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 5B1 AND UPDATED BASELINE (MODEL LAYER 4)**

**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

- BMO Target Well
- Model-Predicted Groundwater Elevation
  - Alternative
  - Updated Baseline
- Model Cell Used to Simulate Percolation Basin
- California Aqueduct
- Coastal Branch of the State Water Project Pipeline
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- ⊗ Nacimiento Water Project Turnout
- County Boundary

Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
5B1	5A1 (90 ac)	4,059	12,377	0	16,436	19,639
	5B1 (35 ac)*	0	0	3,203	3,203	

\*Assumes recharge occurs 6 months (Apr-Sep) per year.  
RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

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### Spring Water Surface Elevation (WSE) Trends - Alternative 5B2 (2012-2040) Estrella Sub-Area

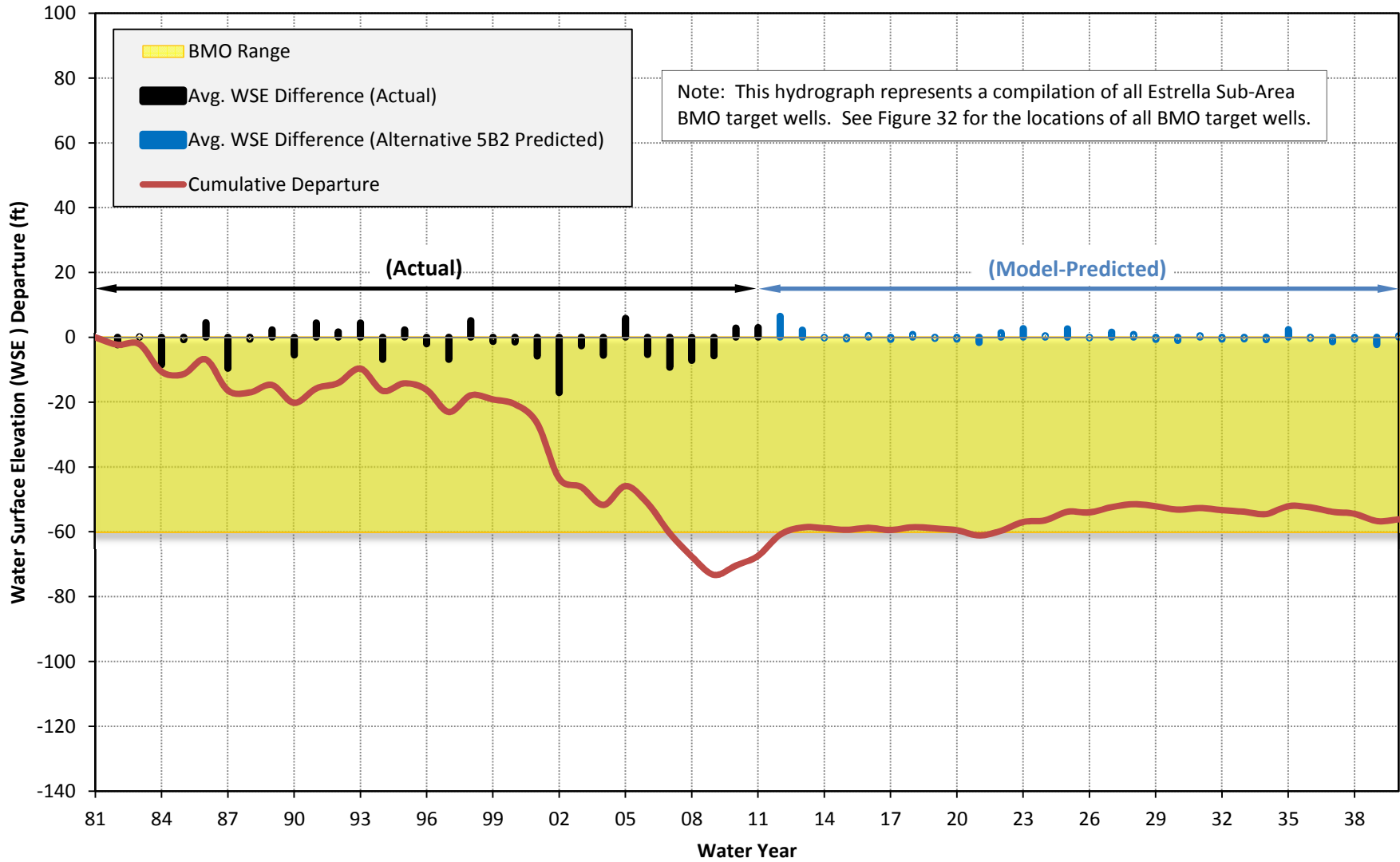


Figure 97

### Spring Water Surface Elevation (WSE) Trends - Alternative 5B2 (2012-2040) Creston Sub-Area

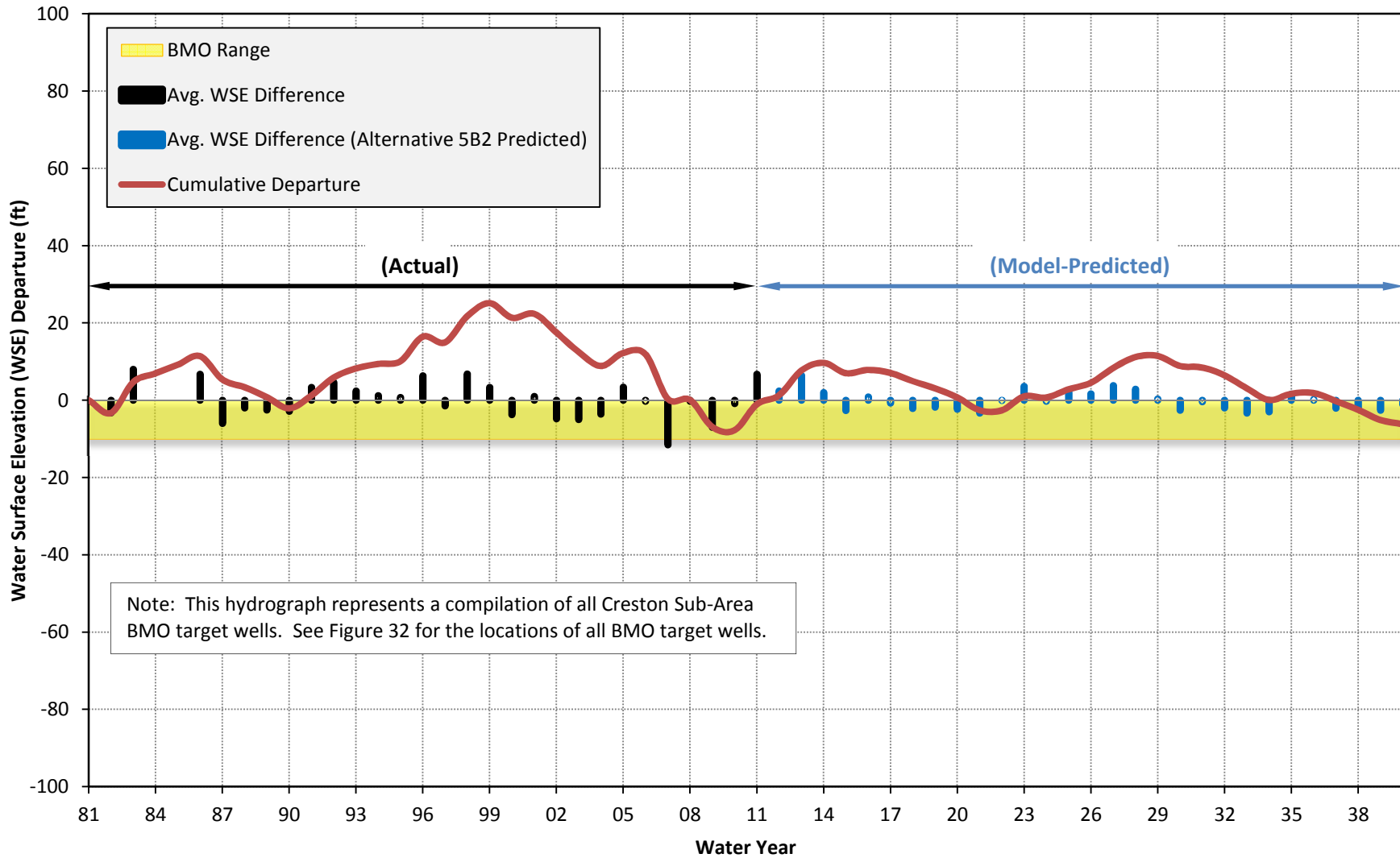
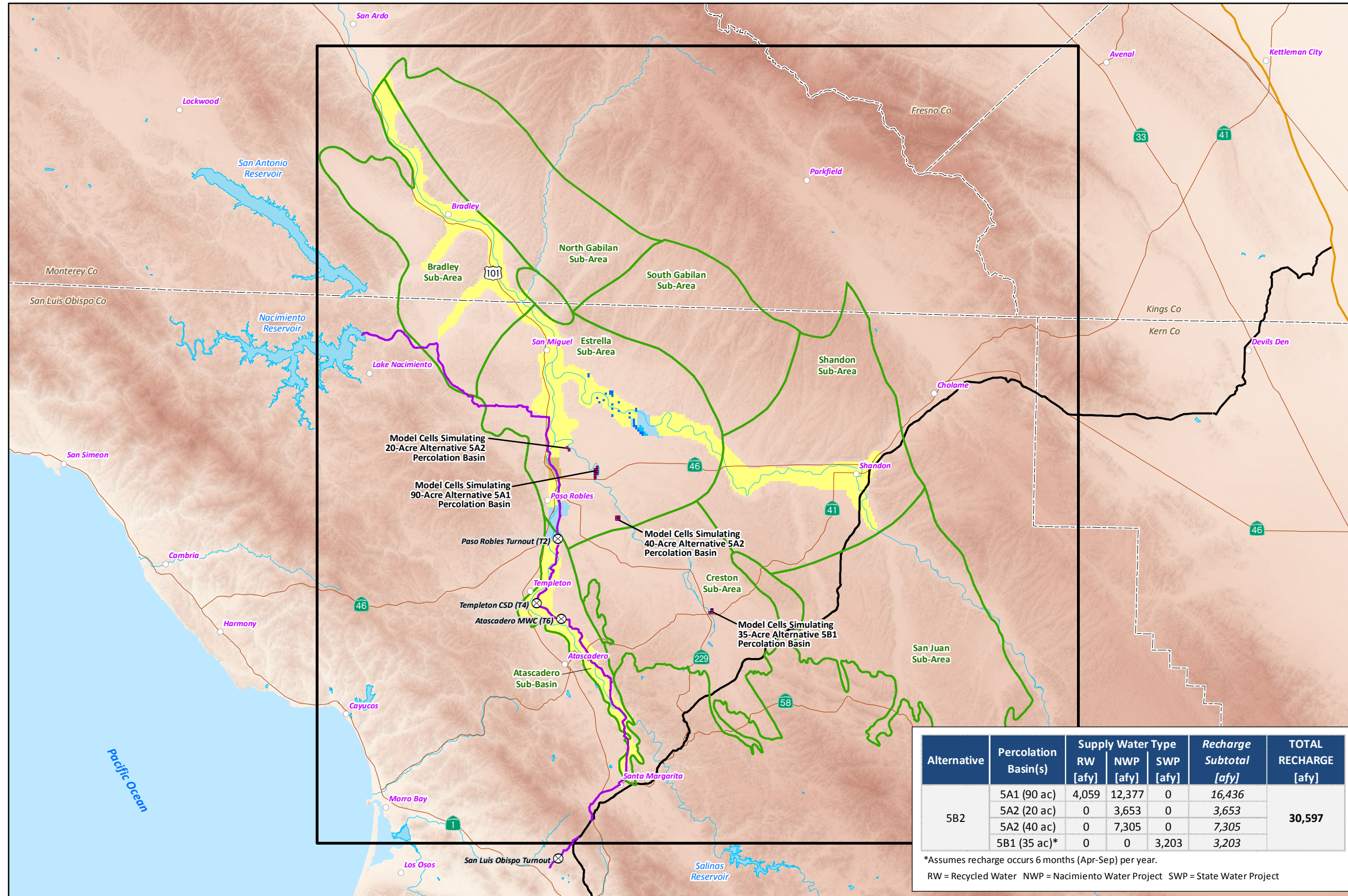


Figure 98

**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 5B2 AND UPDATED BASELINE (MODEL LAYER 1)**



**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

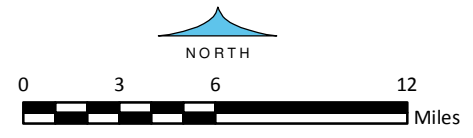
More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

- Model Cell Used to Simulate Percolation Basin
- California Aqueduct
- Coastal Branch of the State Water Project Pipeline
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- ⊗ Nacimiento Water Project Turnout
- - - County Boundary

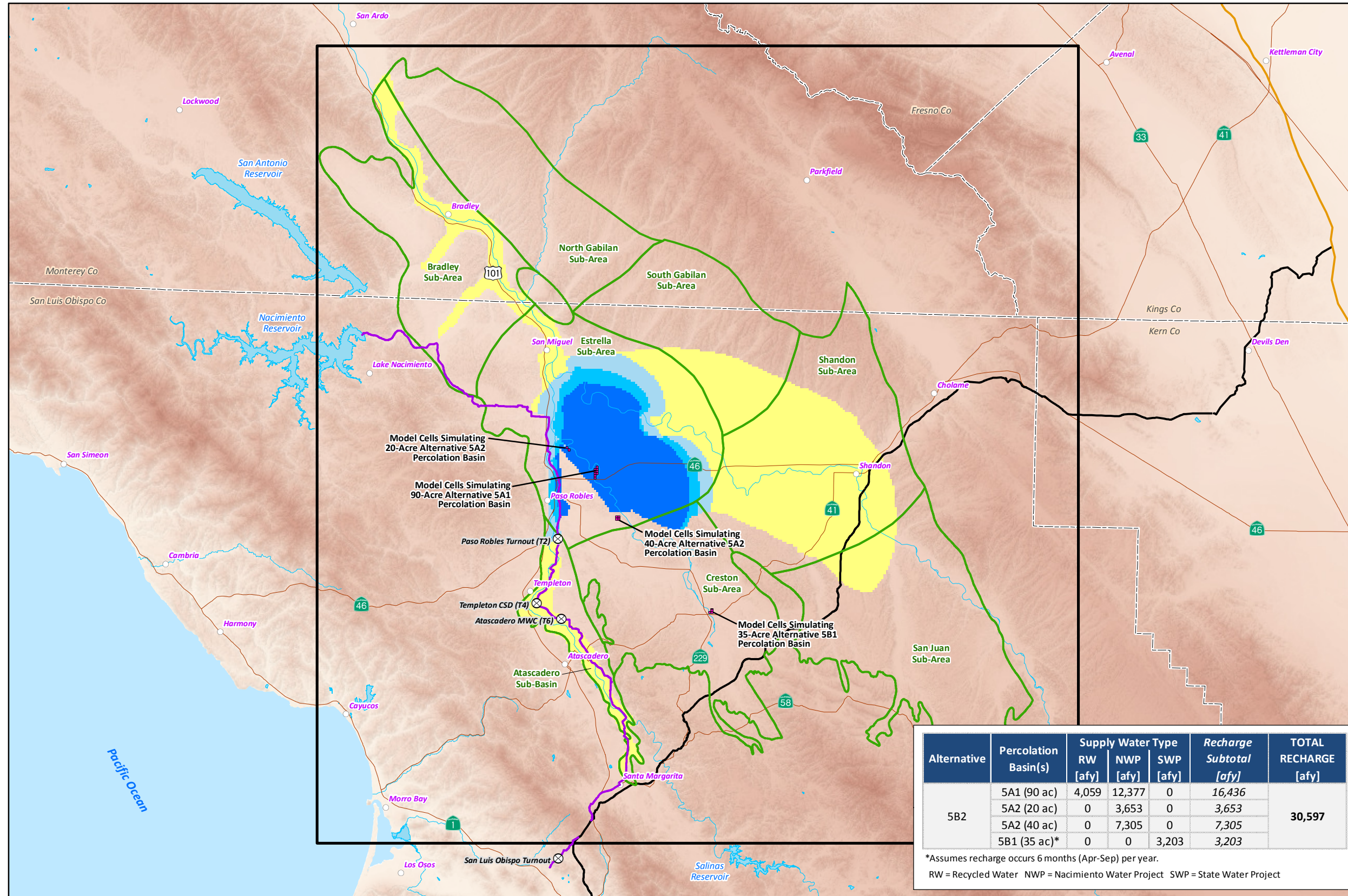
Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
5B2	5A1 (90 ac)	4,059	12,377	0	16,436	<b>30,597</b>
	5A2 (20 ac)	0	3,653	0	3,653	
	5A2 (40 ac)	0	7,305	0	7,305	
	5B1 (35 ac)*	0	0	3,203	3,203	

\*Assumes recharge occurs 6 months (Apr-Sep) per year.  
 RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

Notes:  
 Model Layer 1 represents recent alluvial deposits.



**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 5B2 AND UPDATED BASELINE (MODEL LAYER 2)**



**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

<span style="display:inline-block; width:15px; height:15px; background-color:orange;"></span> More than -30 ft	<span style="display:inline-block; width:15px; height:15px; background-color:yellow;"></span> 0 to 10 ft
<span style="display:inline-block; width:15px; height:15px; background-color:darkorange;"></span> -30 to -20 ft	<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> 10 to 20 ft
<span style="display:inline-block; width:15px; height:15px; background-color:lightorange;"></span> -20 to -10 ft	<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span> 20 to 30 ft
<span style="display:inline-block; width:15px; height:15px; background-color:tan;"></span> -10 to 0 ft	<span style="display:inline-block; width:15px; height:15px; background-color:darkblue;"></span> More than 30 ft

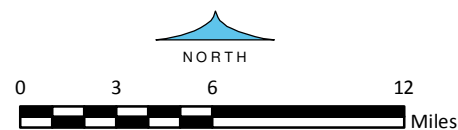
- Model Cell Used to Simulate Percolation Basin
- California Aqueduct
- Coastal Branch of the State Water Project Pipeline
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- ⊗ Nacimiento Water Project Turnout
- County Boundary

Notes:  
Model Layer 2 represents the upper portion of the Paso Robles Formation.

6-Dec-16

Prepared by: DB. Map Projection: State Plane 1983, Zone V.

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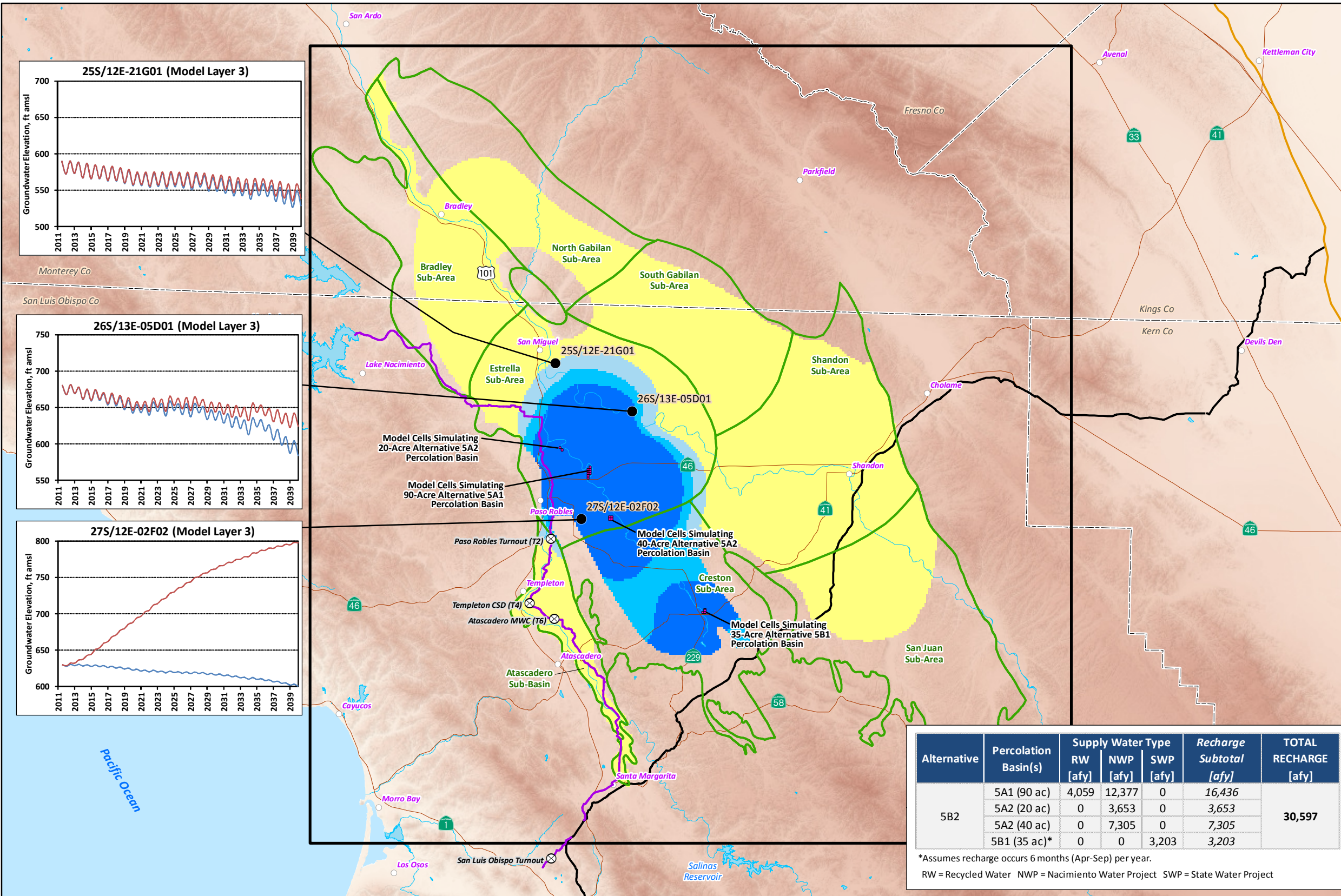


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**Figure 100**

**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 5B2 AND UPDATED BASELINE (MODEL LAYER 3)**



**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

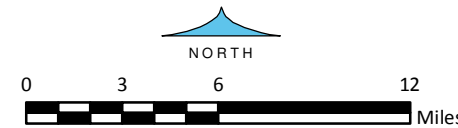
More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

- BMO Target Well
- Model-Predicted Groundwater Elevation
  - Alternative
  - Updated Baseline
- Model Cell Used to Simulate Percolation Basin
- California Aqueduct
- Coastal Branch of the State Water Project Pipeline
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- ⊗ Nacimiento Water Project Turnout
- County Boundary

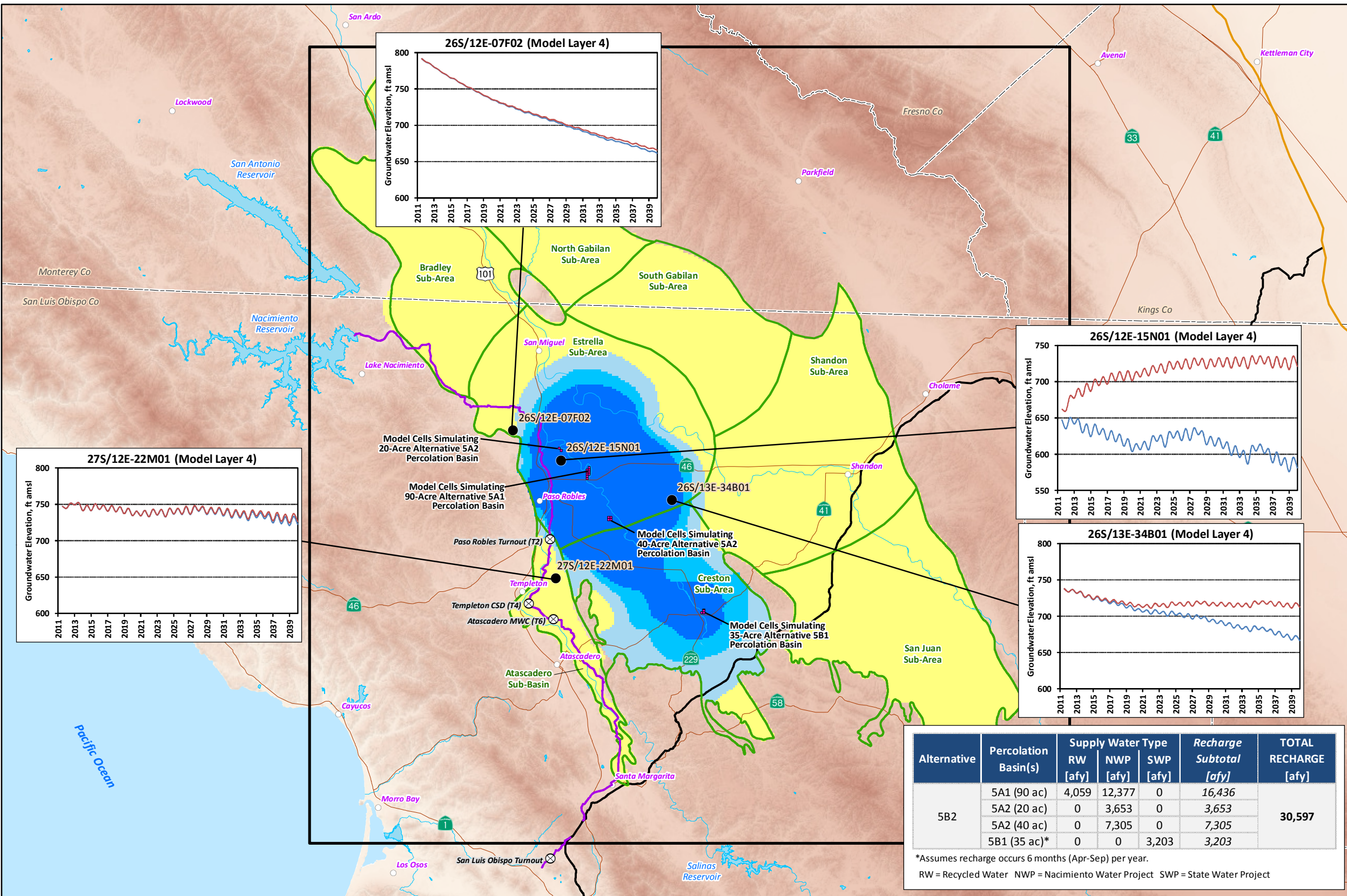
Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
5B2	SA1 (90 ac)	4,059	12,377	0	16,436	30,597
	SA2 (20 ac)	0	3,653	0	3,653	
	SA2 (40 ac)	0	7,305	0	7,305	
	SB1 (35 ac)*	0	0	3,203	3,203	

\*Assumes recharge occurs 6 months (Apr-Sep) per year.  
 RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

Notes:  
 Model Layer 3 represents the portion of the Paso Robles Formation which covers most of the basin.



**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 5B2 AND UPDATED BASELINE (MODEL LAYER 4)**



**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

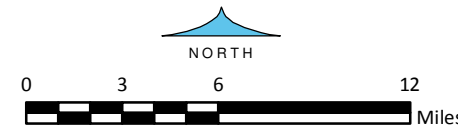
More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

- BMO Target Well
- Model-Predicted Groundwater Elevation
  - Alternative
  - Updated Baseline
- Model Cell Used to Simulate Percolation Basin
- California Aqueduct
- Coastal Branch of the State Water Project Pipeline
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimientos Water Project Pipeline
- ⊗ Nacimientos Water Project Turnout
- County Boundary

Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
5B2	SA1 (90 ac)	4,059	12,377	0	16,436	30,597
	SA2 (20 ac)	0	3,653	0	3,653	
	SA2 (40 ac)	0	7,305	0	7,305	
	SA1 (35 ac)*	0	0	3,203	3,203	

\*Assumes recharge occurs 6 months (Apr-Sep) per year.  
 RW = Recycled Water NWP = Nacimientos Water Project SWP = State Water Project

Notes:  
 Model Layer 4 represents the deepest portion of the Paso Robles Formation.



### Spring Water Surface Elevation (WSE) Trends - Alternative 6A (2012-2040) Estrella Sub-Area

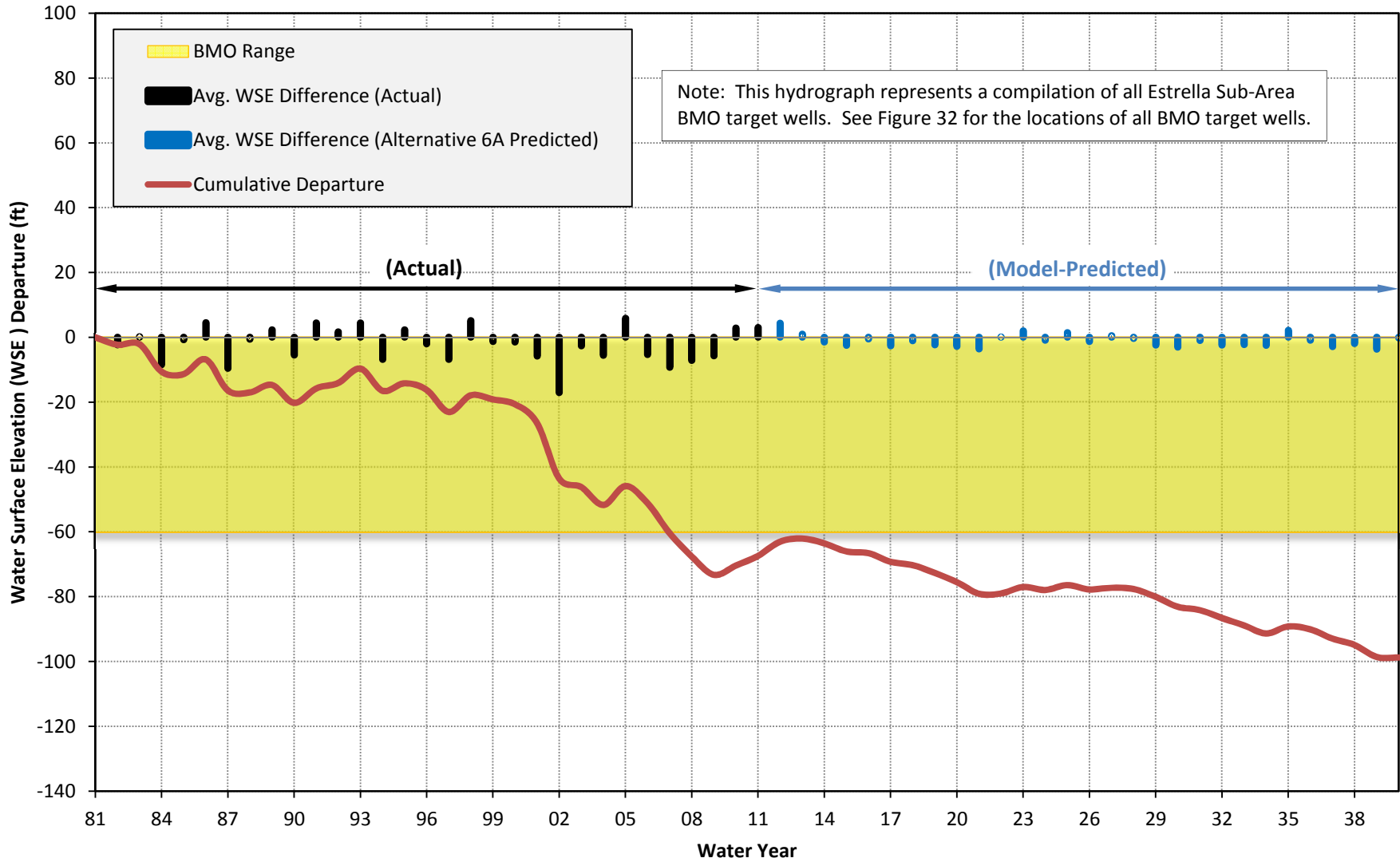
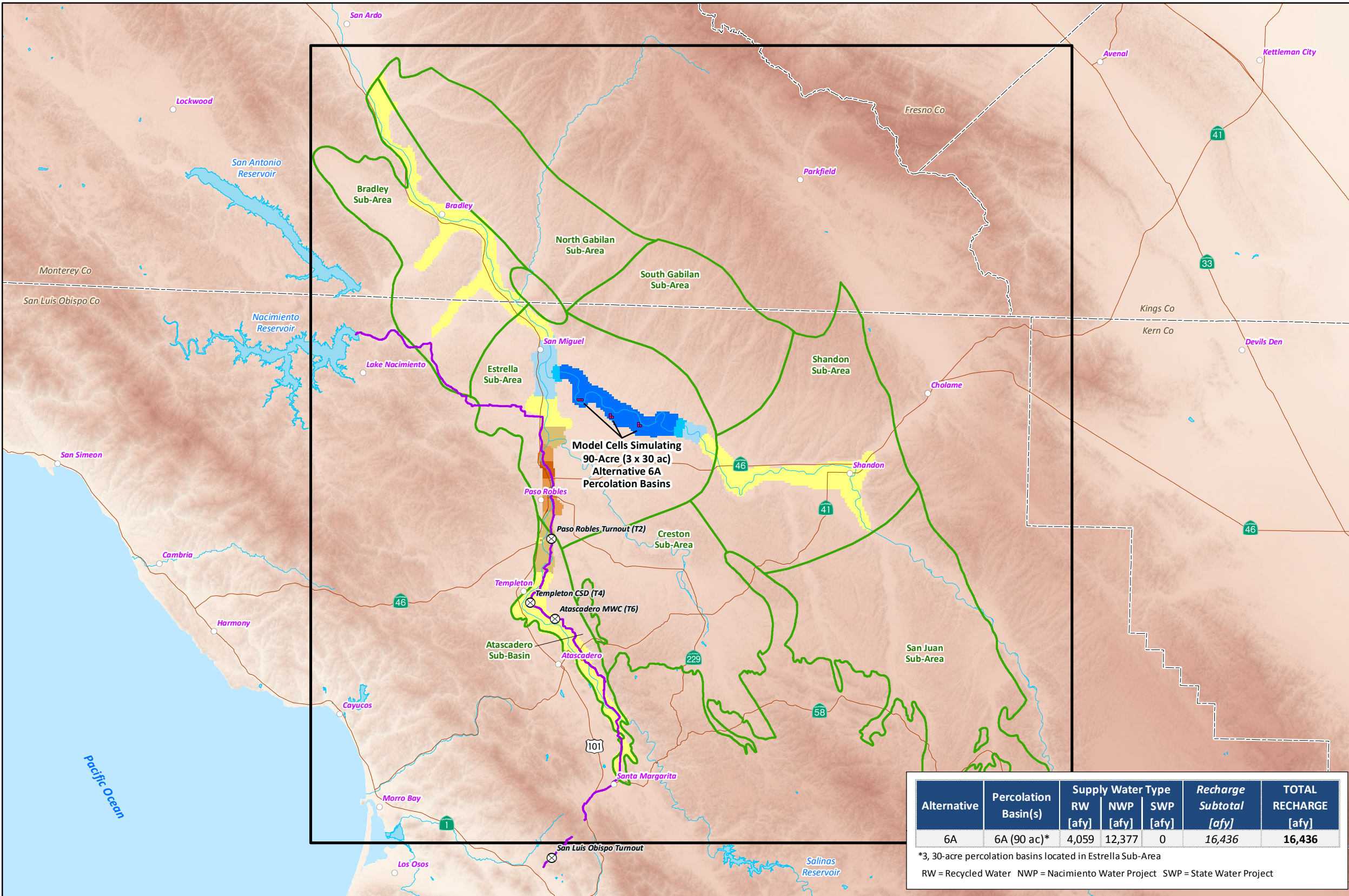


Figure 103



**MODEL-PREDICTED CHANGES  
IN GROUNDWATER ELEVATIONS  
BETWEEN ALTERNATIVE 6A  
AND UPDATED BASELINE  
(MODEL LAYER 1)**



**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

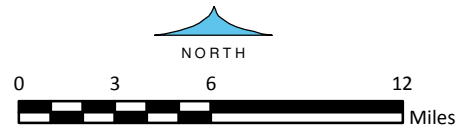
More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

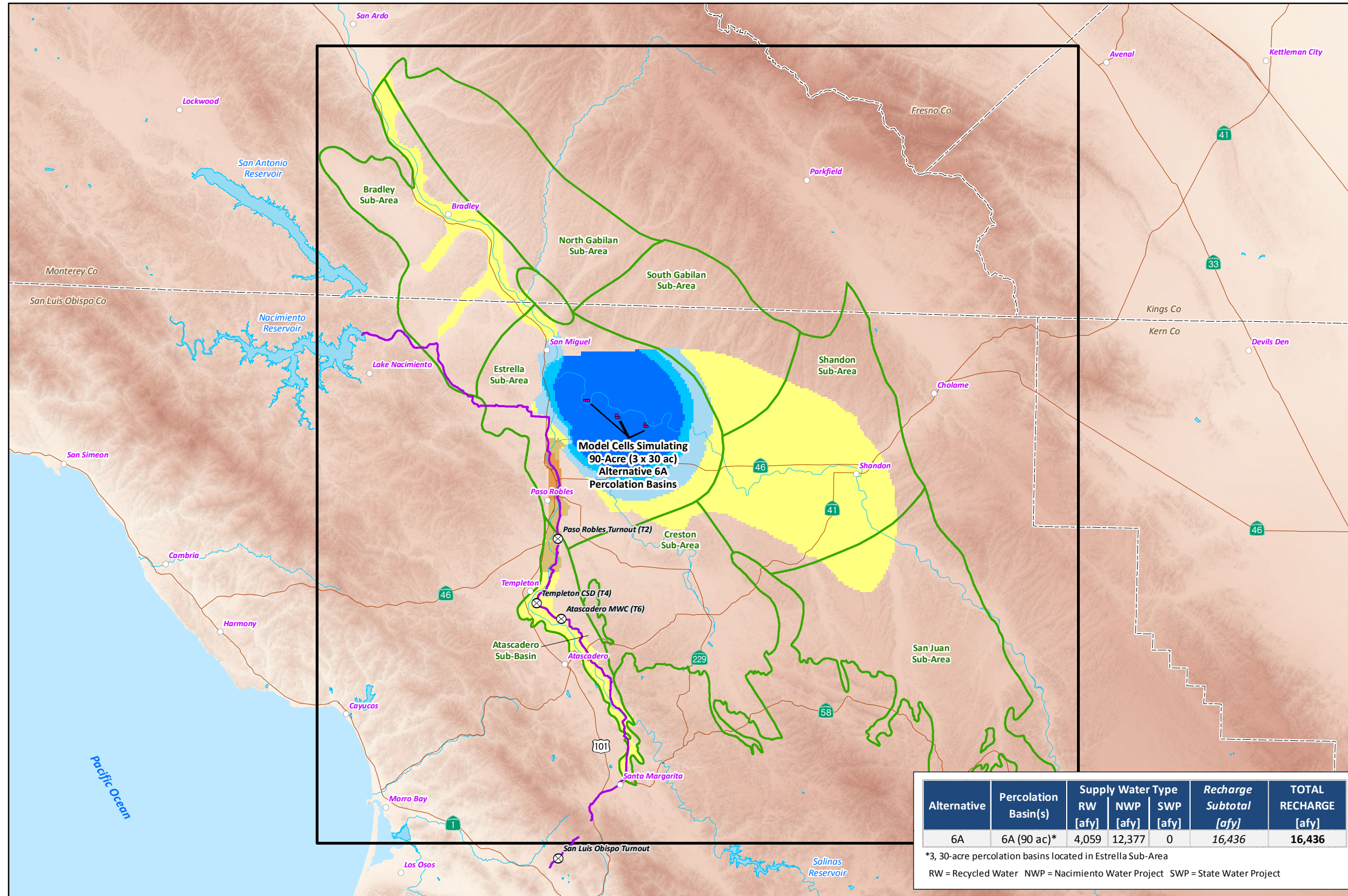
- Model Cell Used to Simulate Percolation Basin
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- Nacimiento Water Project Turnout
- County Boundary

Notes:  
Model Layer 1 represents recent alluvial deposits.

Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
6A	6A (90 ac)*	4,059	12,377	0	16,436	16,436

\*3, 30-acre percolation basins located in Estrella Sub-Area  
RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project





**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 6A AND UPDATED BASELINE (MODEL LAYER 2)**

**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

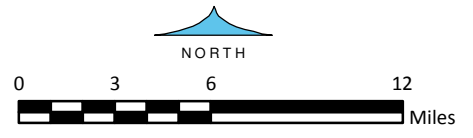
More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

- Model Cell Used to Simulate Percolation Basin
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- Nacimiento Water Project Turnout
- County Boundary

Notes:  
Model Layer 2 represents the upper portion of the Paso Robles Formation.

Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
6A	6A (90 ac)*	4,059	12,377	0	16,436	16,436

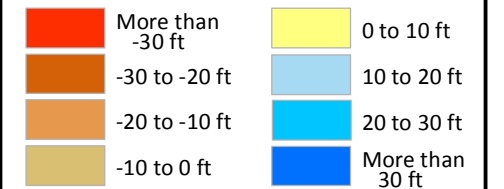
\*3, 30-acre percolation basins located in Estrella Sub-Area  
RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project



**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 6A AND UPDATED BASELINE (MODEL LAYER 3)**

**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)



● BMO Target Well

Model-Predicted Groundwater Elevation

— Alternative  
— Updated Baseline

■ Model Cell Used to Simulate Percolation Basin

□ Paso Robles Groundwater Basin Model Domain

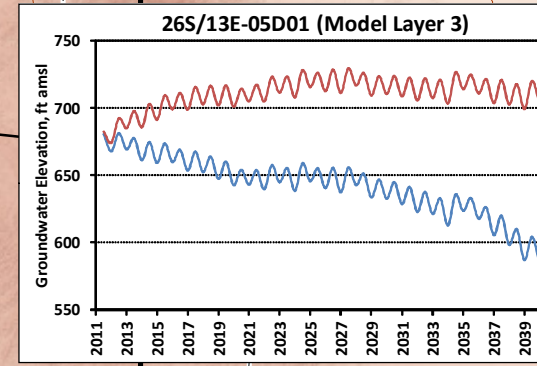
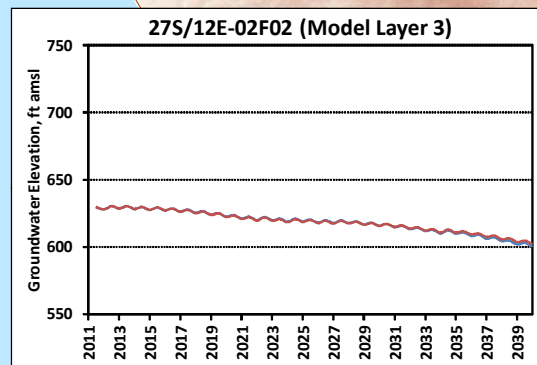
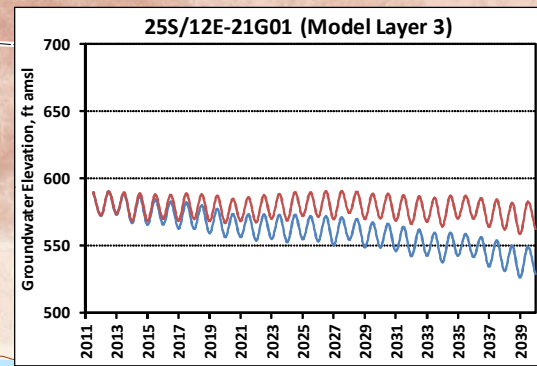
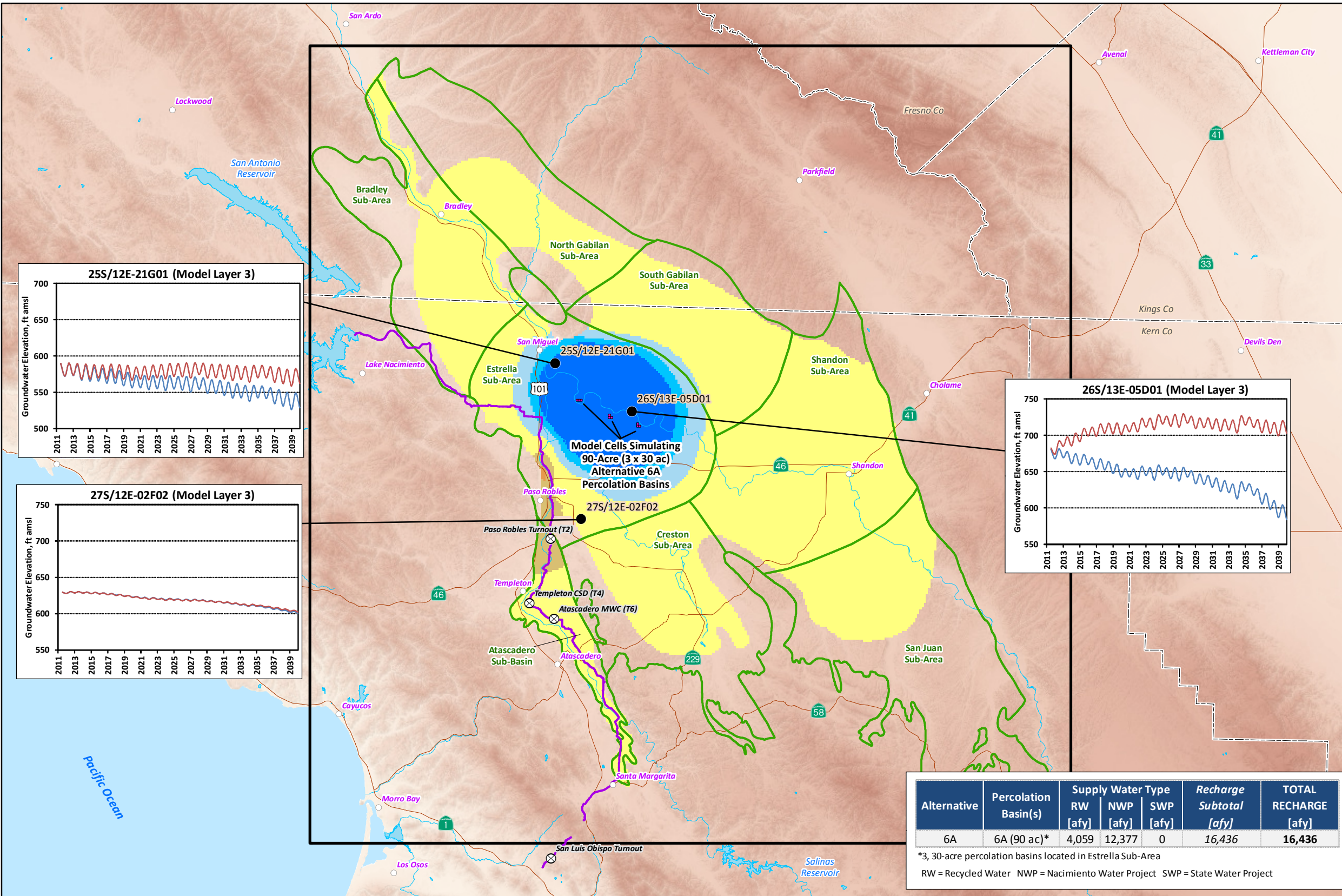
□ Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)

— Nacimiento Water Project Pipeline

⊗ Nacimiento Water Project Turnout

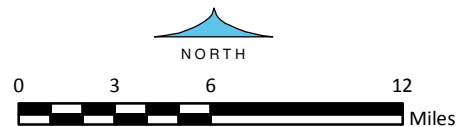
--- County Boundary

Notes:  
Model Layer 3 represents the portion of the Paso Robles Formation which covers most of the basin.



Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
6A	6A (90 ac)*	4,059	12,377	0	16,436	16,436

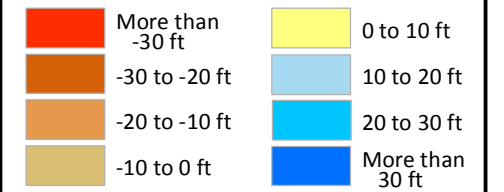
\*3, 30-acre percolation basins located in Estrella Sub-Area  
RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project



**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 6A AND UPDATED BASELINE (MODEL LAYER 4)**

**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)



● BMO Target Well

Model-Predicted Groundwater Elevation

— Alternative  
— Updated Baseline

■ Model Cell Used to Simulate Percolation Basin

□ Paso Robles Groundwater Basin Model Domain

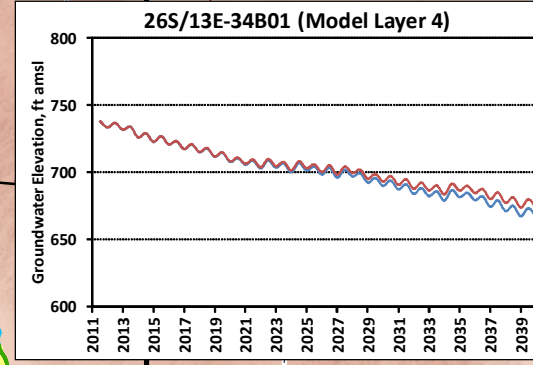
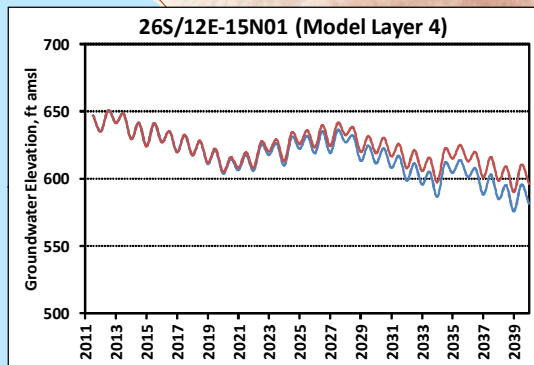
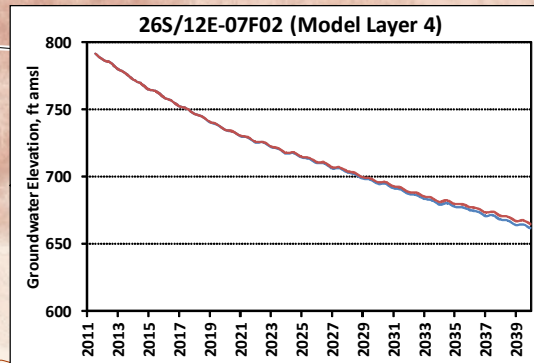
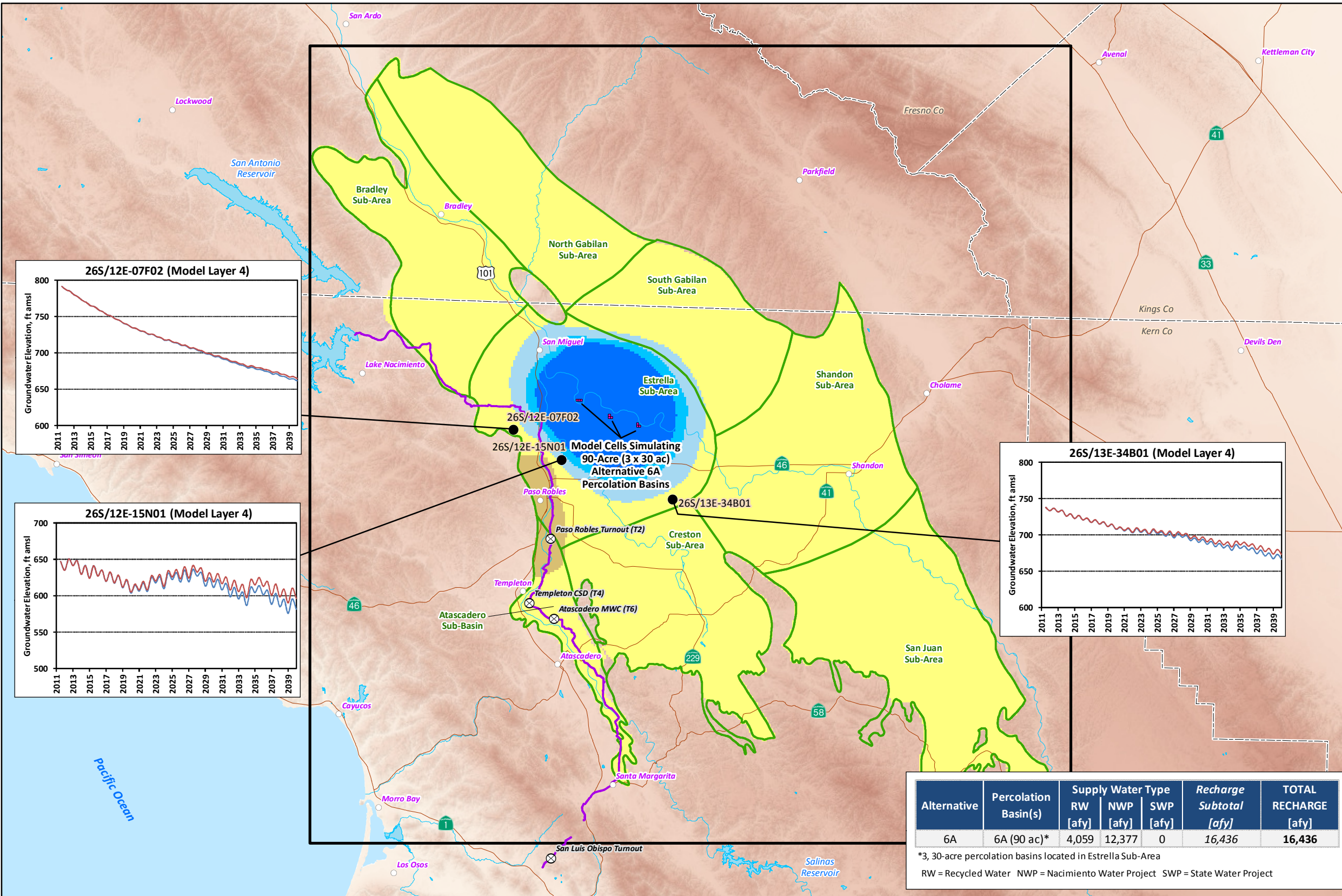
□ Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)

— Nacimiento Water Project Pipeline

⊗ Nacimiento Water Project Turnout

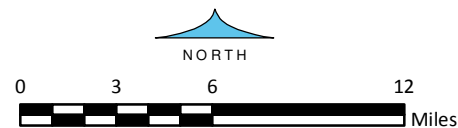
--- County Boundary

Notes:  
Model Layer 4 represents the deepest portion of the Paso Robles Formation.



Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
6A	6A (90 ac)*	4,059	12,377	0	16,436	16,436

\*3, 30-acre percolation basins located in Estrella Sub-Area  
RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project



**Spring Water Surface Elevation (WSE) Trends - Alternative 6B (2012-2040)**  
**Estrella Sub-Area**

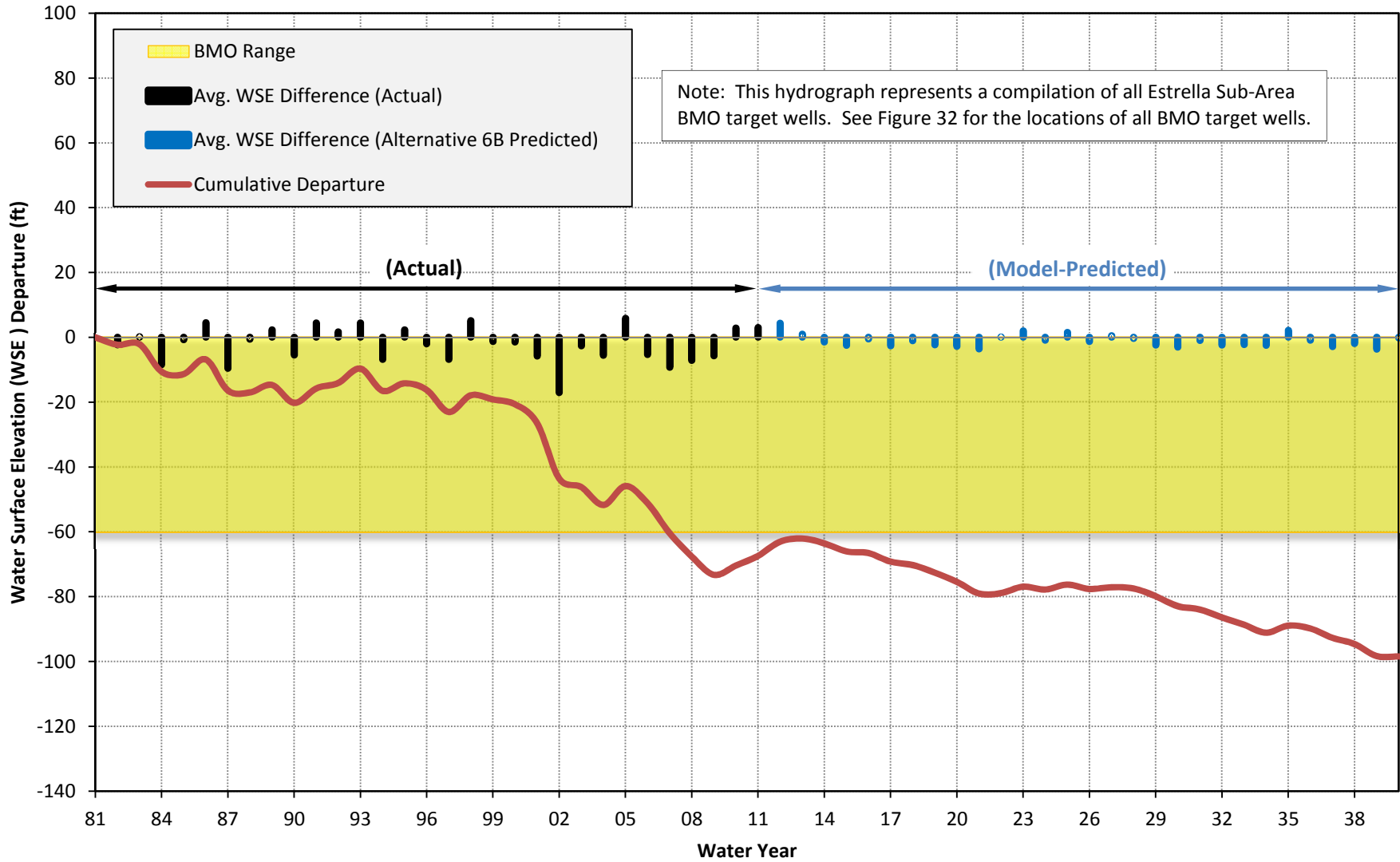


Figure 108

### Spring Water Surface Elevation (WSE) Trends - Alternative 6B (2012-2040) Shandon Sub-Area

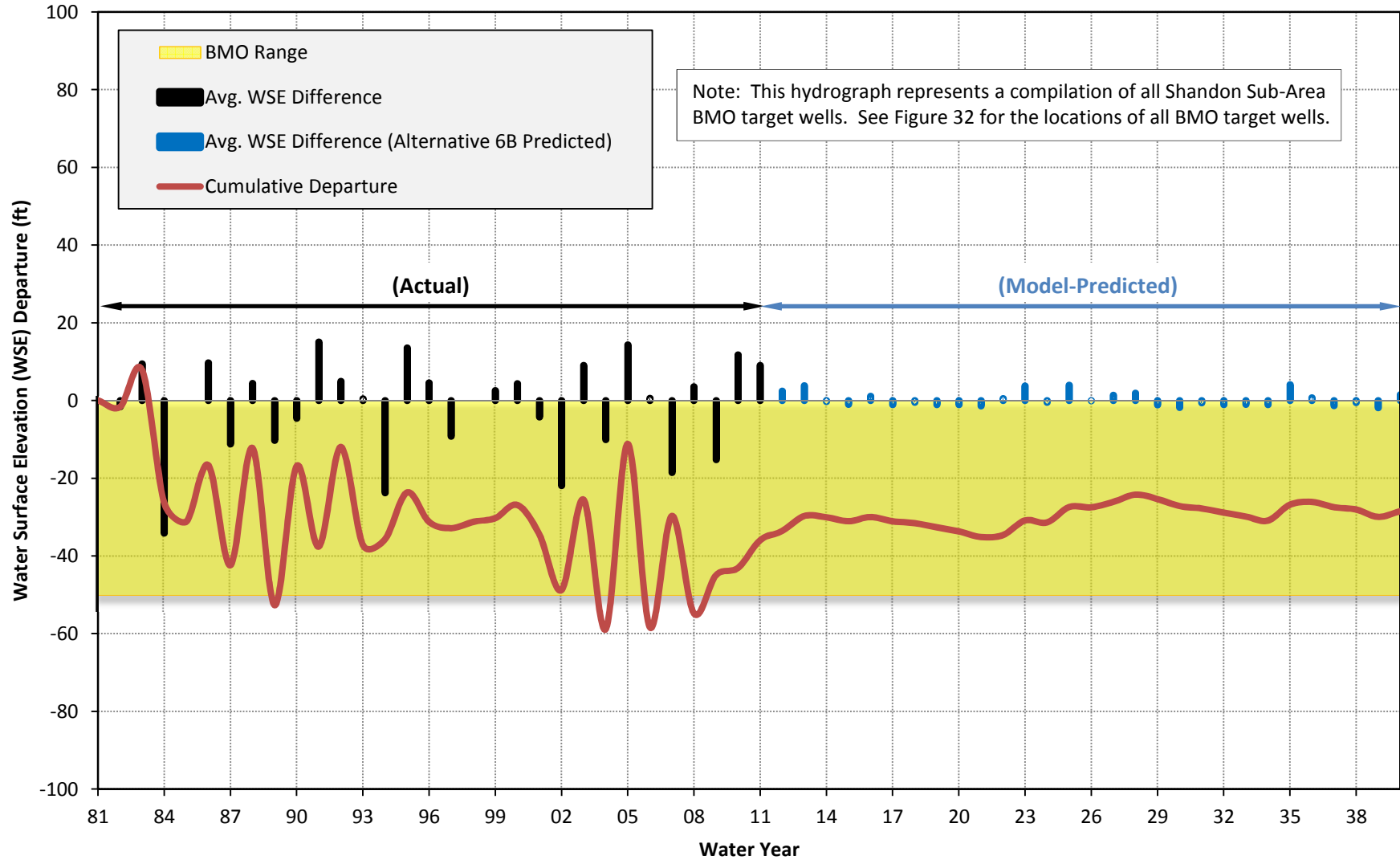
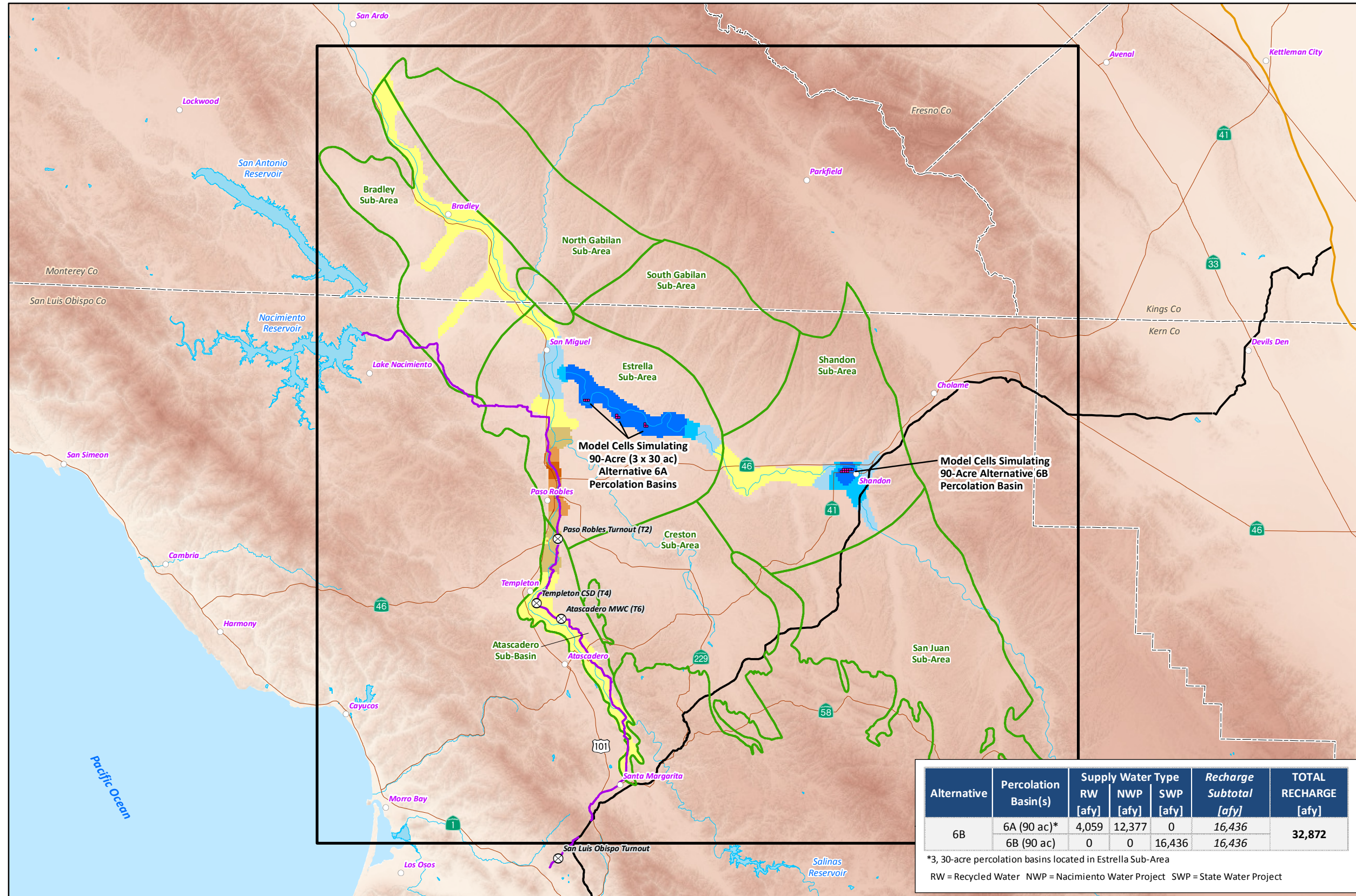


Figure 109



**MODEL-PREDICTED CHANGES  
IN GROUNDWATER ELEVATIONS  
BETWEEN ALTERNATIVE 6B  
AND UPDATED BASELINE  
(MODEL LAYER 1)**

**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

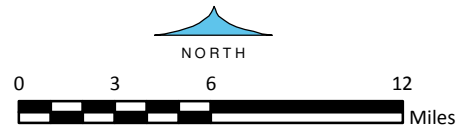
More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

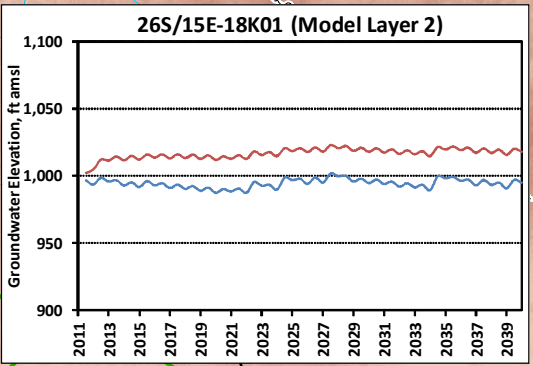
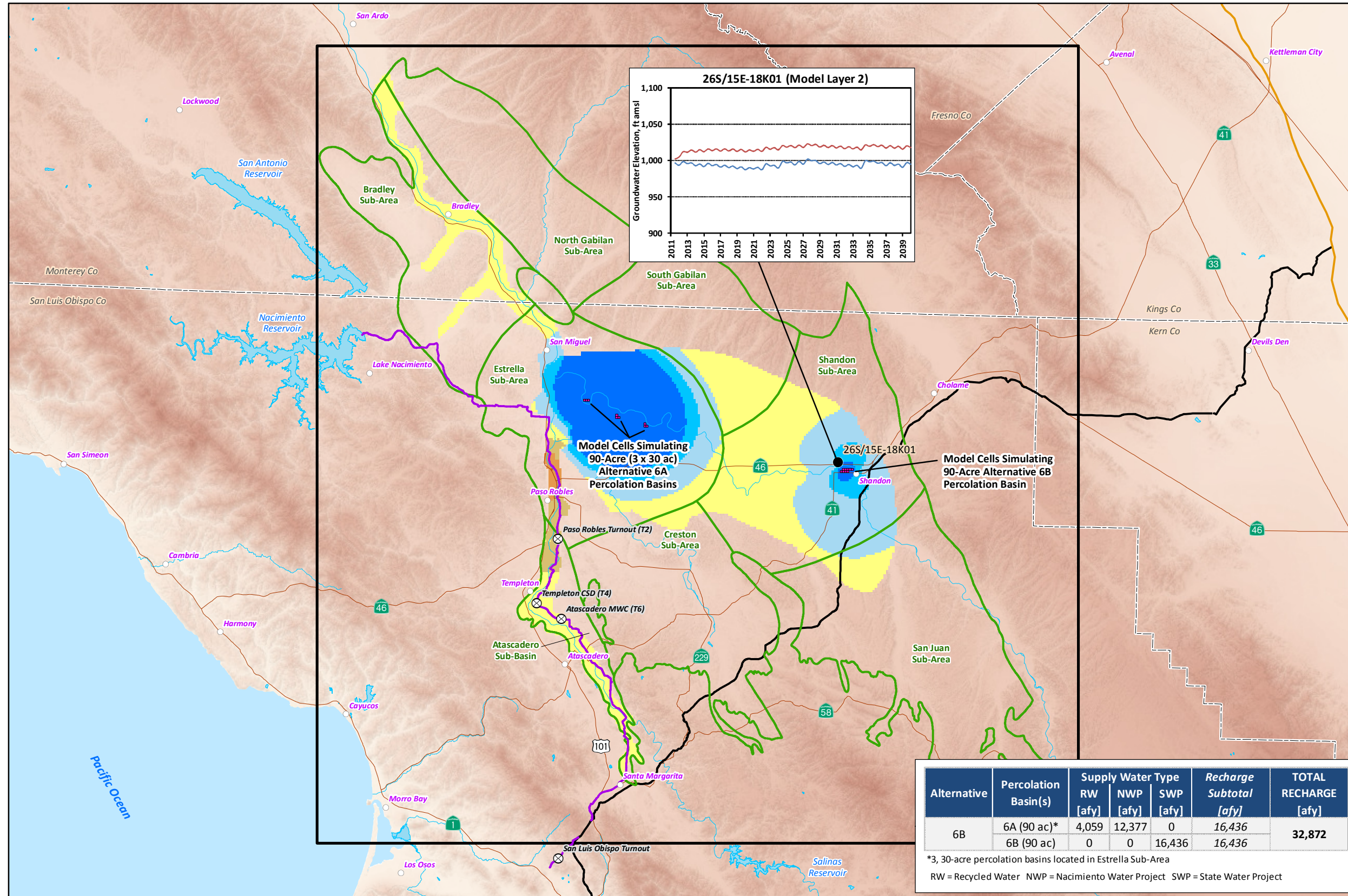
- Model Cell Used to Simulate Percolation Basin
- California Aqueduct
- Coastal Branch of the State Water Project Pipeline
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- ⊗ Nacimiento Water Project Turnout
- County Boundary

Notes:  
Model Layer 1 represents recent alluvial deposits.

Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
6B	6A (90 ac)*	4,059	12,377	0	16,436	32,872
	6B (90 ac)	0	0	16,436	16,436	

\*3, 30-acre percolation basins located in Estrella Sub-Area  
RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project





**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 6B AND UPDATED BASELINE (MODEL LAYER 2)**

**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

- BMO Target Well
- Model-Predicted Groundwater Elevation
  - Alternative
  - Updated Baseline
- Model Cell Used to Simulate Percolation Basin
- California Aqueduct
- Coastal Branch of the State Water Project Pipeline
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- ⊗ Nacimiento Water Project Turnout
- County Boundary

Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
6B	6A (90 ac)*	4,059	12,377	0	16,436	32,872
	6B (90 ac)	0	0	16,436	16,436	

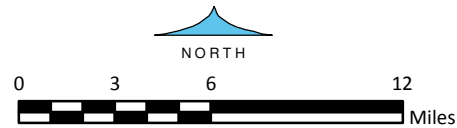
\*3, 30-acre percolation basins located in Estrella Sub-Area  
 RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

Notes:  
 Model Layer 2 represents the upper portion of the Paso Robles Formation.

6-Dec-16

Prepared by: DB. Map Projection: State Plane 1983, Zone V.

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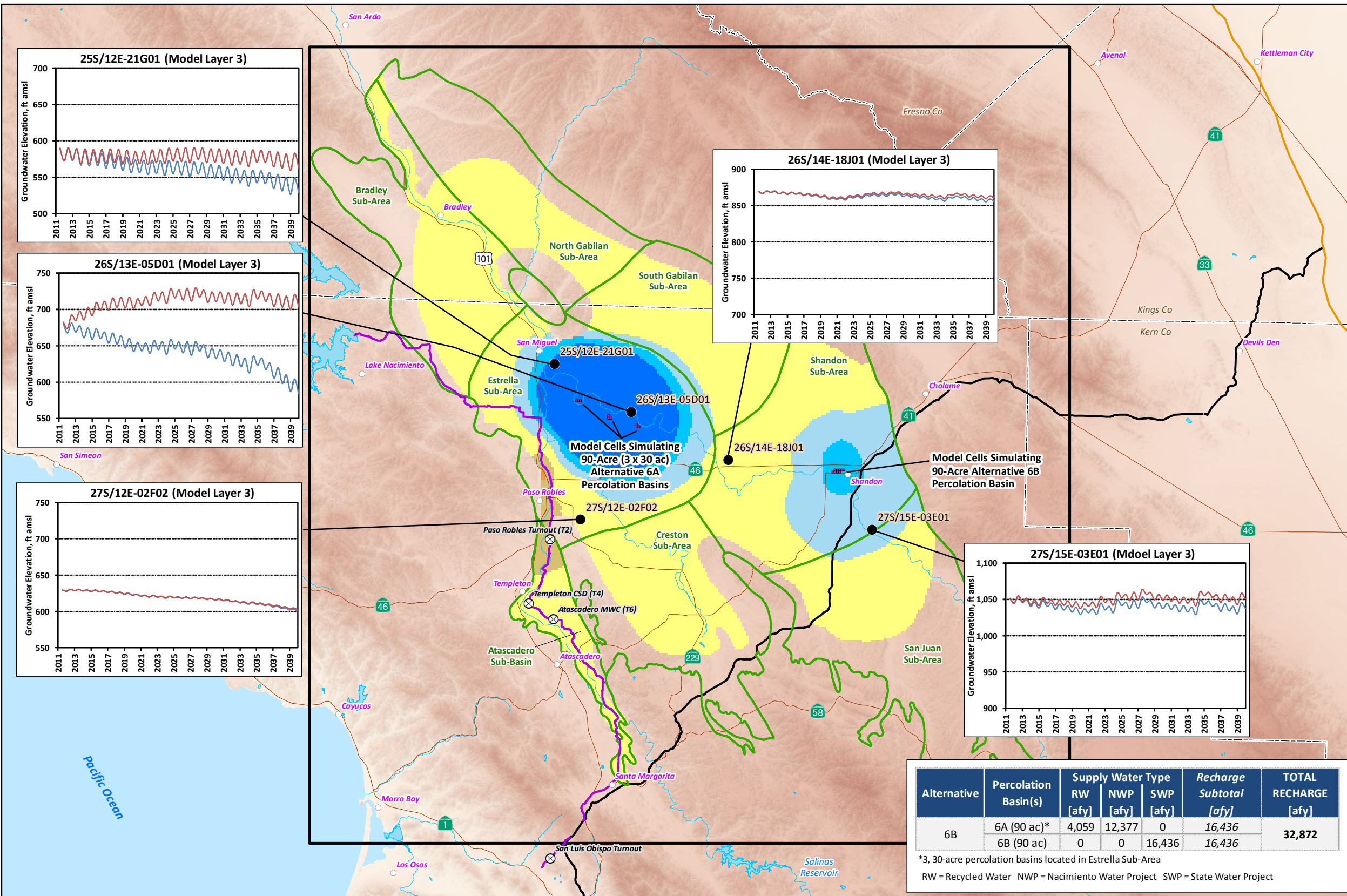


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**Figure 111**





**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 6B AND UPDATED BASELINE (MODEL LAYER 3)**

**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

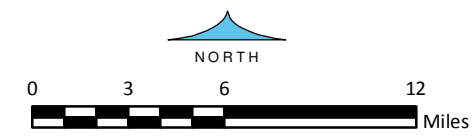
More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

- BMO Target Well
- Model-Predicted Groundwater Elevation
  - Alternative
  - Updated Baseline
- Model Cell Used to Simulate Percolation Basin
- California Aqueduct
- Coastal Branch of the State Water Project Pipeline
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- ⊗ Nacimiento Water Project Turnout
- County Boundary

Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
6B	6A (90 ac)*	4,059	12,377	0	16,436	32,872
	6B (90 ac)	0	0	16,436	16,436	

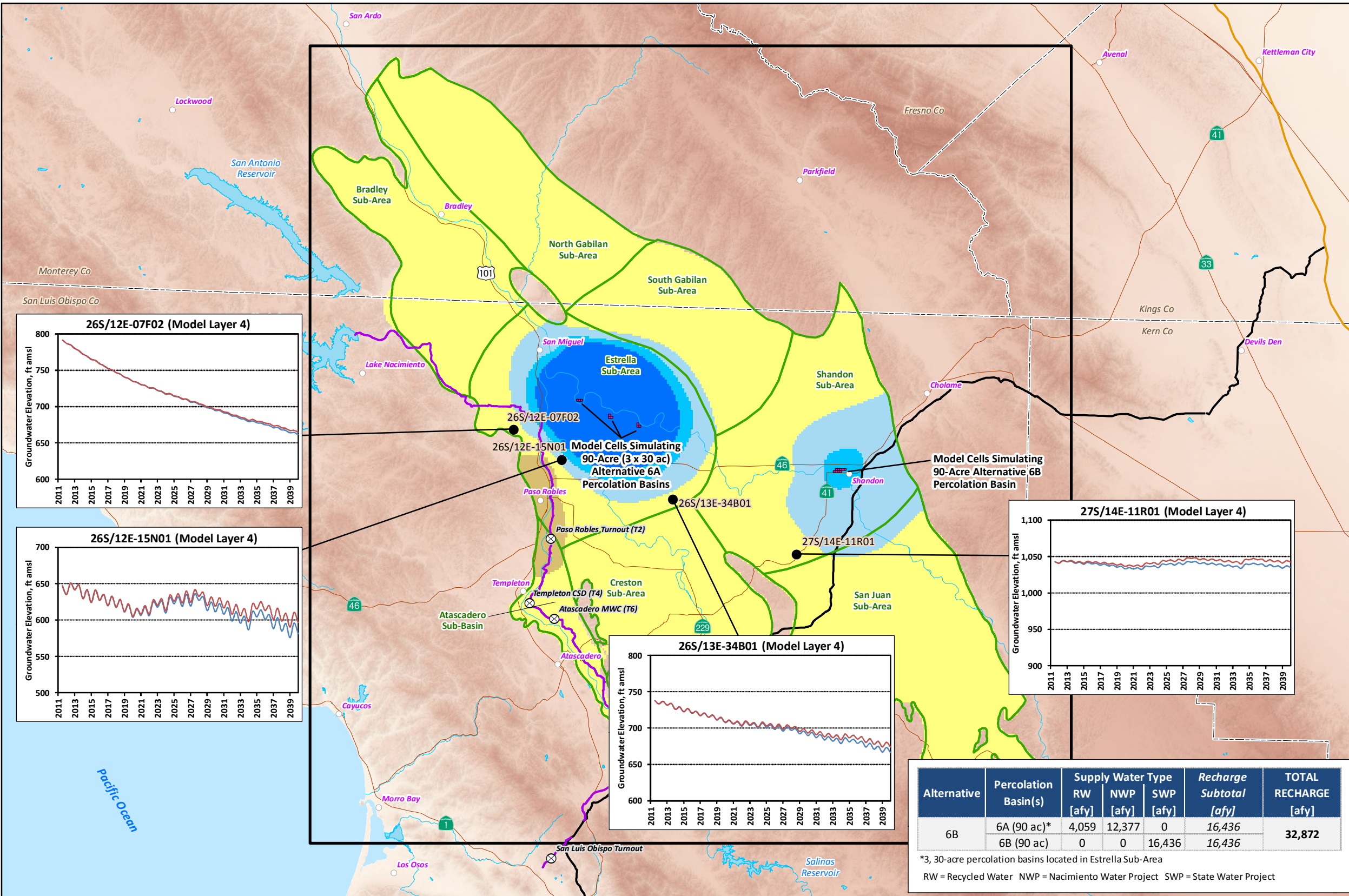
\*3, 30-acre percolation basins located in Estrella Sub-Area  
 RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

Notes:  
 Model Layer 3 represents the portion of the Paso Robles Formation which covers most of the basin.



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**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 6B AND UPDATED BASELINE (MODEL LAYER 4)**



**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

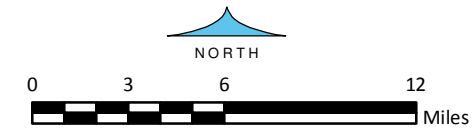
More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

- BMO Target Well
- Model-Predicted Groundwater Elevation
  - Alternative
  - Updated Baseline
- Model Cell Used to Simulate Percolation Basin
- California Aqueduct
- Coastal Branch of the State Water Project Pipeline
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- ⊗ Nacimiento Water Project Turnout
- County Boundary

Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
6B	6A (90 ac)*	4,059	12,377	0	16,436	32,872
	6B (90 ac)	0	0	16,436	16,436	

\*3, 30-acre percolation basins located in Estrella Sub-Area  
 RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

Notes:  
 Model Layer 4 represents the deepest portion of the Paso Robles Formation.



**Spring Water Surface Elevation (WSE) Trends - Alternative 6C (2012-2040)**  
**Estrella Sub-Area**

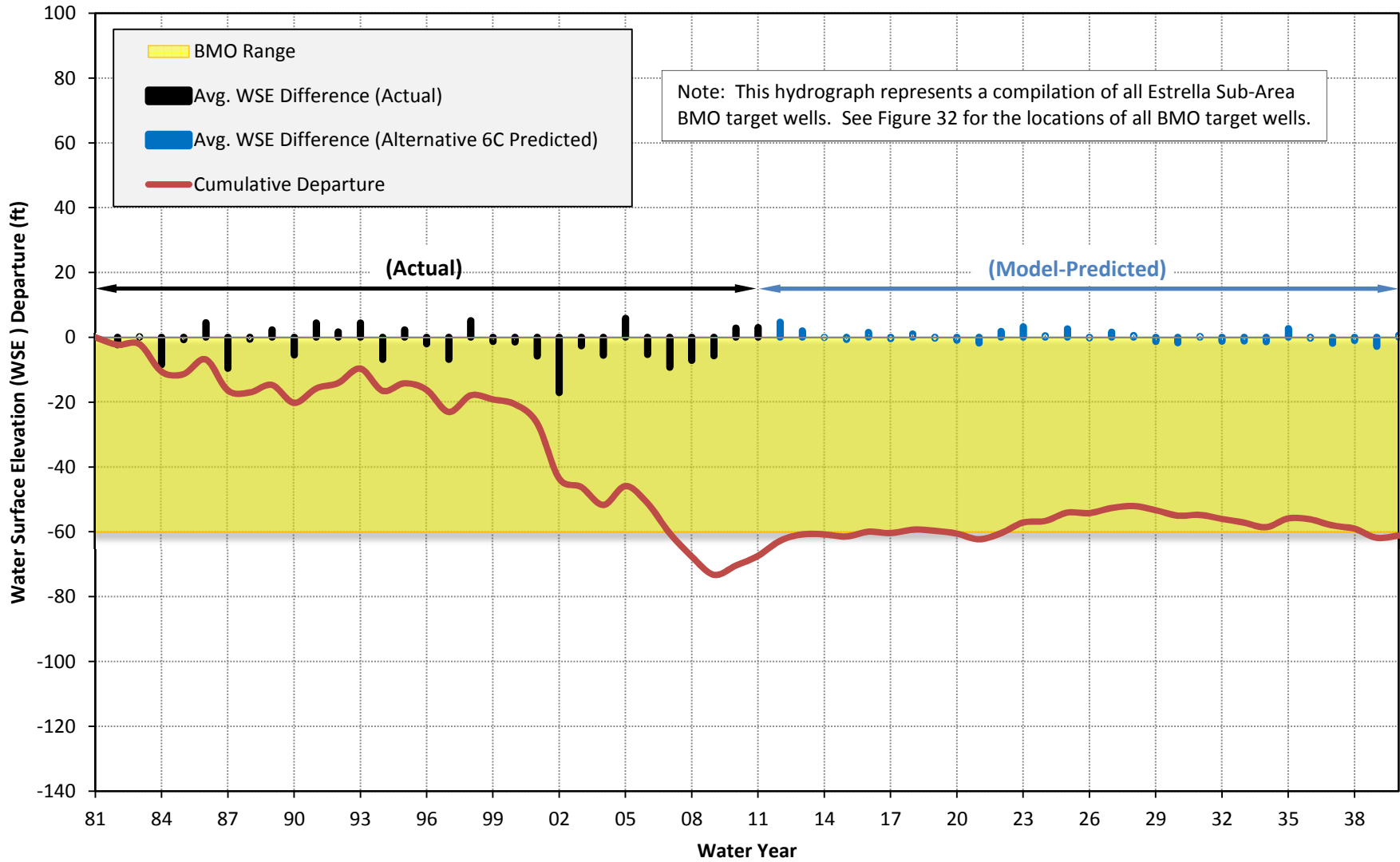


Figure 114

### Spring Water Surface Elevation (WSE) Trends - Alternative 6C (2012-2040) Shandon Sub-Area

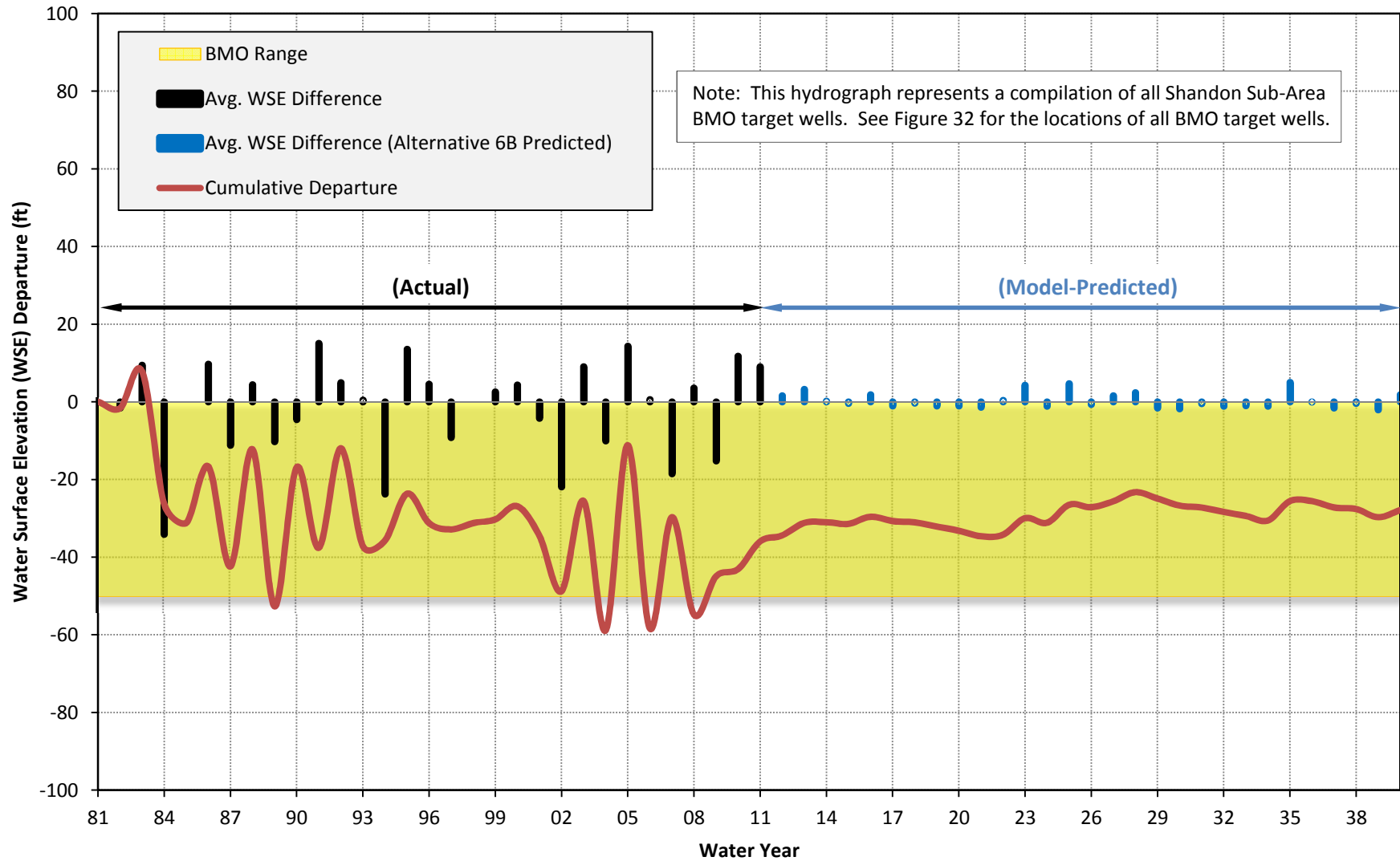
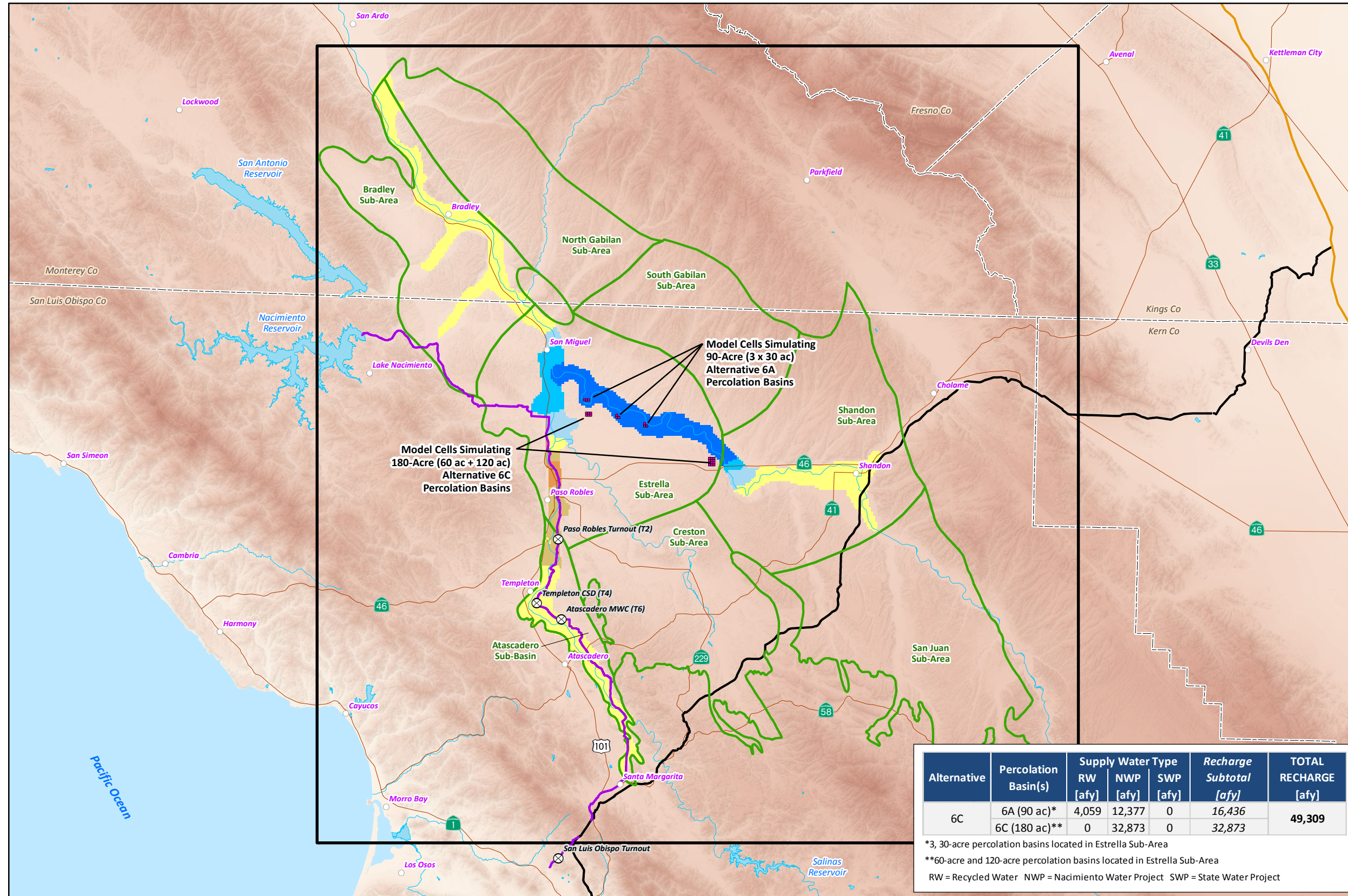


Figure 115



**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 6C AND UPDATED BASELINE (MODEL LAYER 1)**

**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

- Model Cell Used to Simulate Percolation Basin
- California Aqueduct
- Coastal Branch of the State Water Project Pipeline
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- ⊗ Nacimiento Water Project Turnout
- County Boundary

Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
6C	6A (90 ac)*	4,059	12,377	0	16,436	49,309
	6C (180 ac)**	0	32,873	0	32,873	

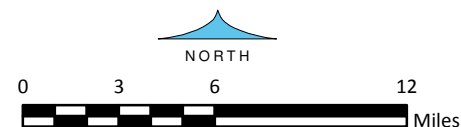
\*3, 30-acre percolation basins located in Estrella Sub-Area  
 \*\*60-acre and 120-acre percolation basins located in Estrella Sub-Area  
 RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

Notes:  
 Model Layer 1 represents recent alluvial deposits.

6-Dec-16

Prepared by: DB. Map Projection: State Plane 1983, Zone V.

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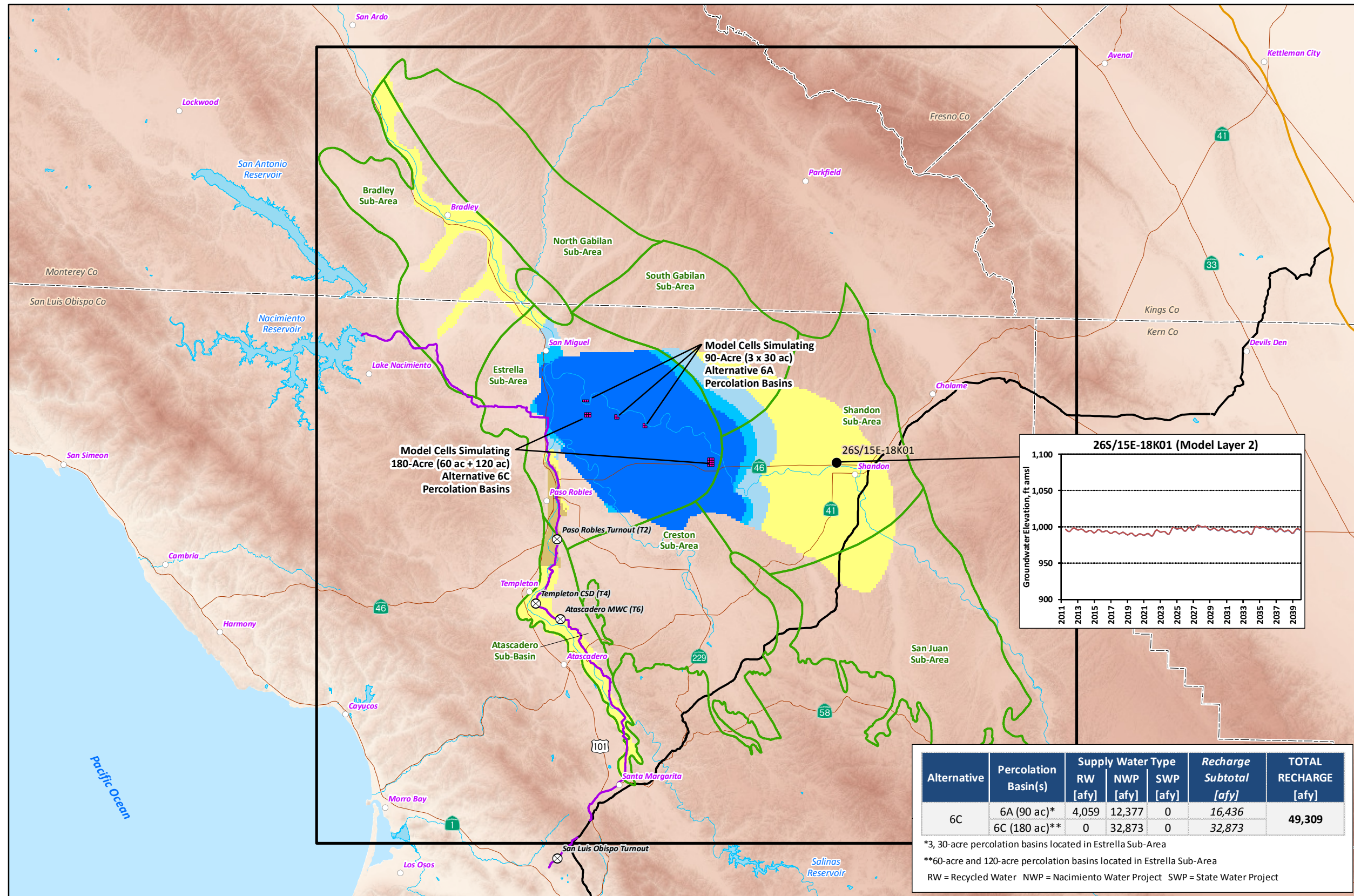


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**Figure 116**

**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 6C AND UPDATED BASELINE (MODEL LAYER 2)**

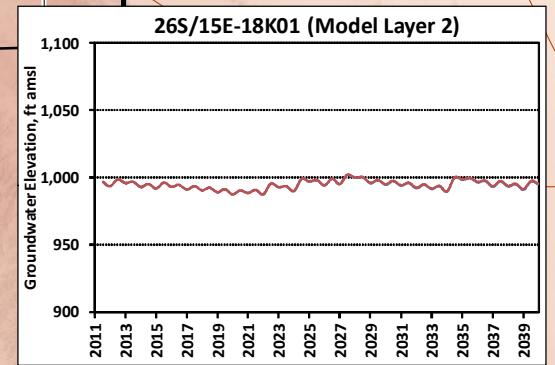


**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

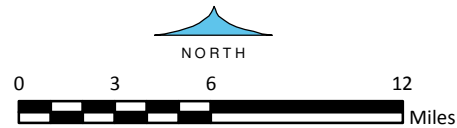
- BMO Target Well
- Model-Predicted Groundwater Elevation
  - Alternative
  - Updated Baseline
- Model Cell Used to Simulate Percolation Basin
- California Aqueduct
- Coastal Branch of the State Water Project Pipeline
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- ⊗ Nacimiento Water Project Turnout
- County Boundary



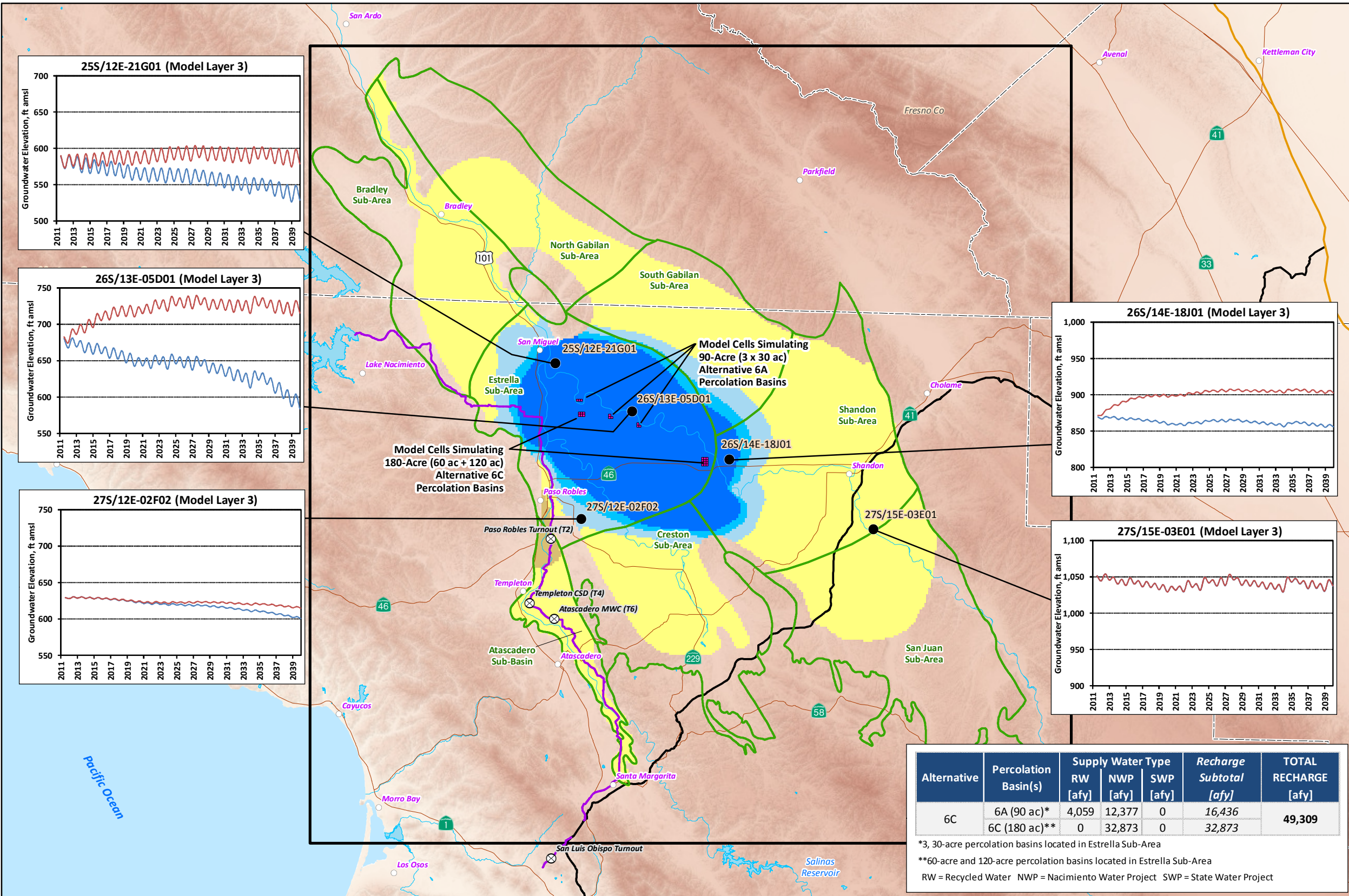
Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
6C	6A (90 ac)*	4,059	12,377	0	16,436	49,309
	6C (180 ac)**	0	32,873	0	32,873	

\*3, 30-acre percolation basins located in Estrella Sub-Area  
 \*\*60-acre and 120-acre percolation basins located in Estrella Sub-Area  
 RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

Notes:  
 Model Layer 2 represents the upper portion of the Paso Robles Formation.



**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 6C AND UPDATED BASELINE (MODEL LAYER 3)**

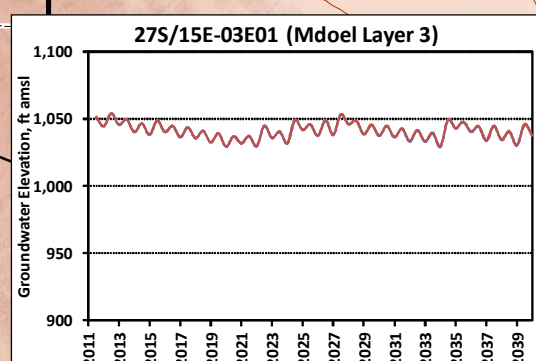
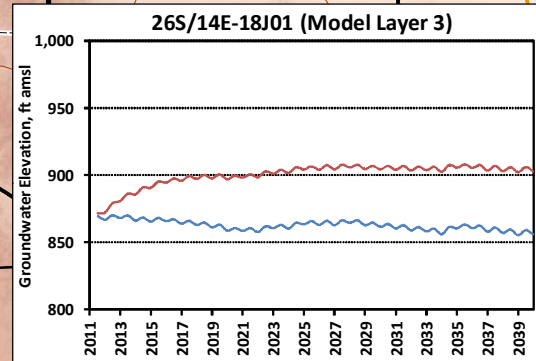
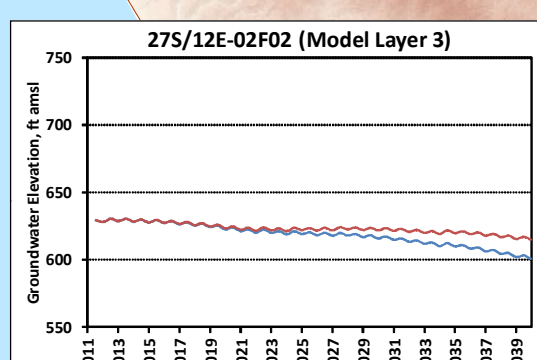
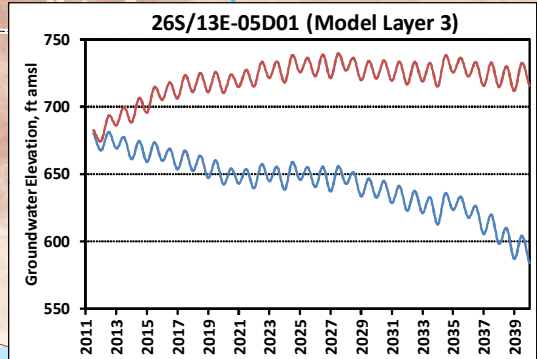
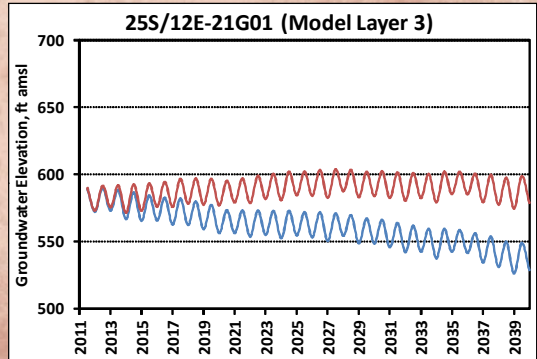


**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

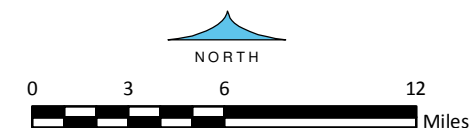
- BMO Target Well
- Model-Predicted Groundwater Elevation
  - Alternative
  - Updated Baseline
- Model Cell Used to Simulate Percolation Basin
- California Aqueduct
- Coastal Branch of the State Water Project Pipeline
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- ⊗ Nacimiento Water Project Turnout
- County Boundary



Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
6C	6A (90 ac)*	4,059	12,377	0	16,436	49,309
	6C (180 ac)**	0	32,873	0	32,873	

\*3, 30-acre percolation basins located in Estrella Sub-Area  
 \*\*60-acre and 120-acre percolation basins located in Estrella Sub-Area  
 RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

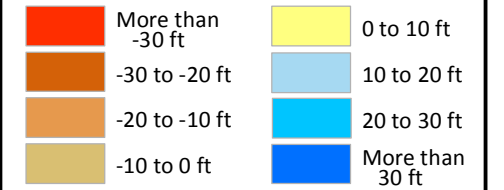
Notes:  
 Model Layer 3 represents the portion of the Paso Robles Formation which covers most of the basin.



**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 6C AND UPDATED BASELINE (MODEL LAYER 4)**

**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)



● BMO Target Well

Model-Predicted Groundwater Elevation

— Alternative

— Updated Baseline

■ Model Cell Used to Simulate Percolation Basin

— California Aqueduct

— Coastal Branch of the State Water Project Pipeline

□ Paso Robles Groundwater Basin Model Domain

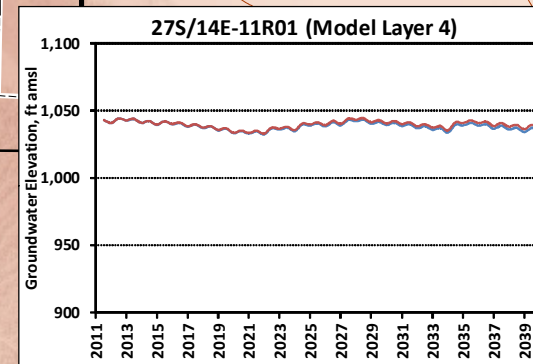
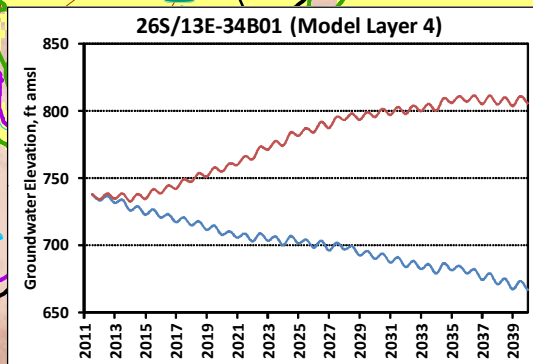
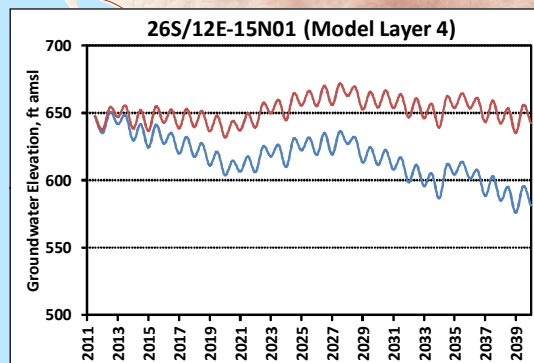
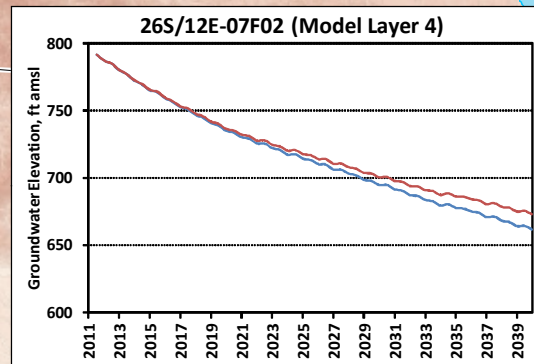
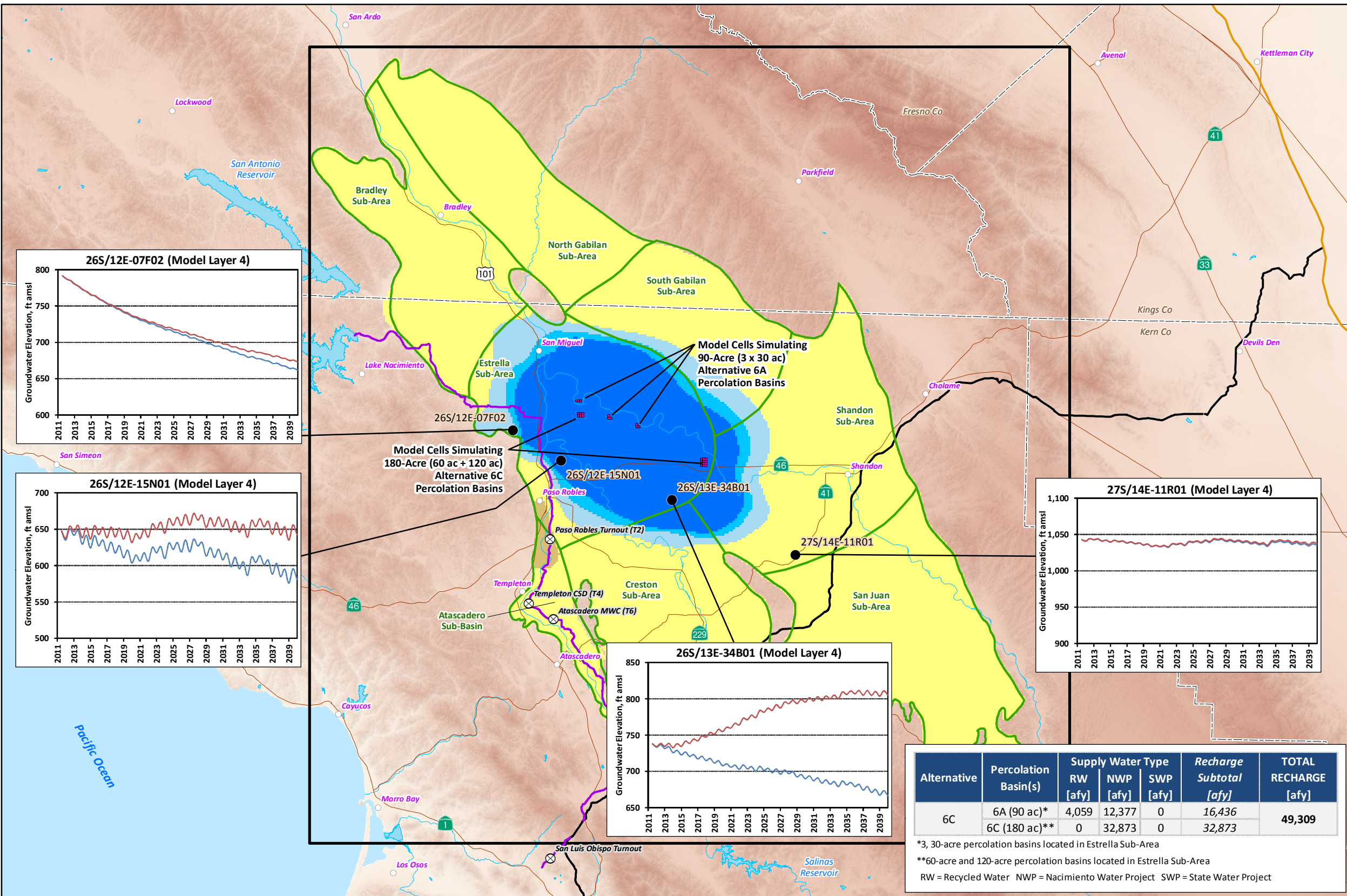
□ Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)

— Nacimiento Water Project Pipeline

⊗ Nacimiento Water Project Turnout

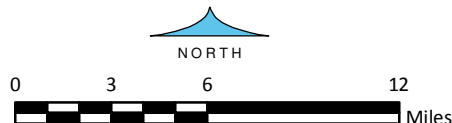
--- County Boundary

Notes:  
Model Layer 4 represents the deepest portion of the Paso Robles Formation.



Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
6C	6A (90 ac)*	4,059	12,377	0	16,436	49,309
	6C (180 ac)**	0	32,873	0	32,873	

\*3, 30-acre percolation basins located in Estrella Sub-Area  
 \*\*60-acre and 120-acre percolation basins located in Estrella Sub-Area  
 RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project





### Spring Water Surface Elevation (WSE) Trends - Alternative 7A (2012-2040) Creston Sub-Area

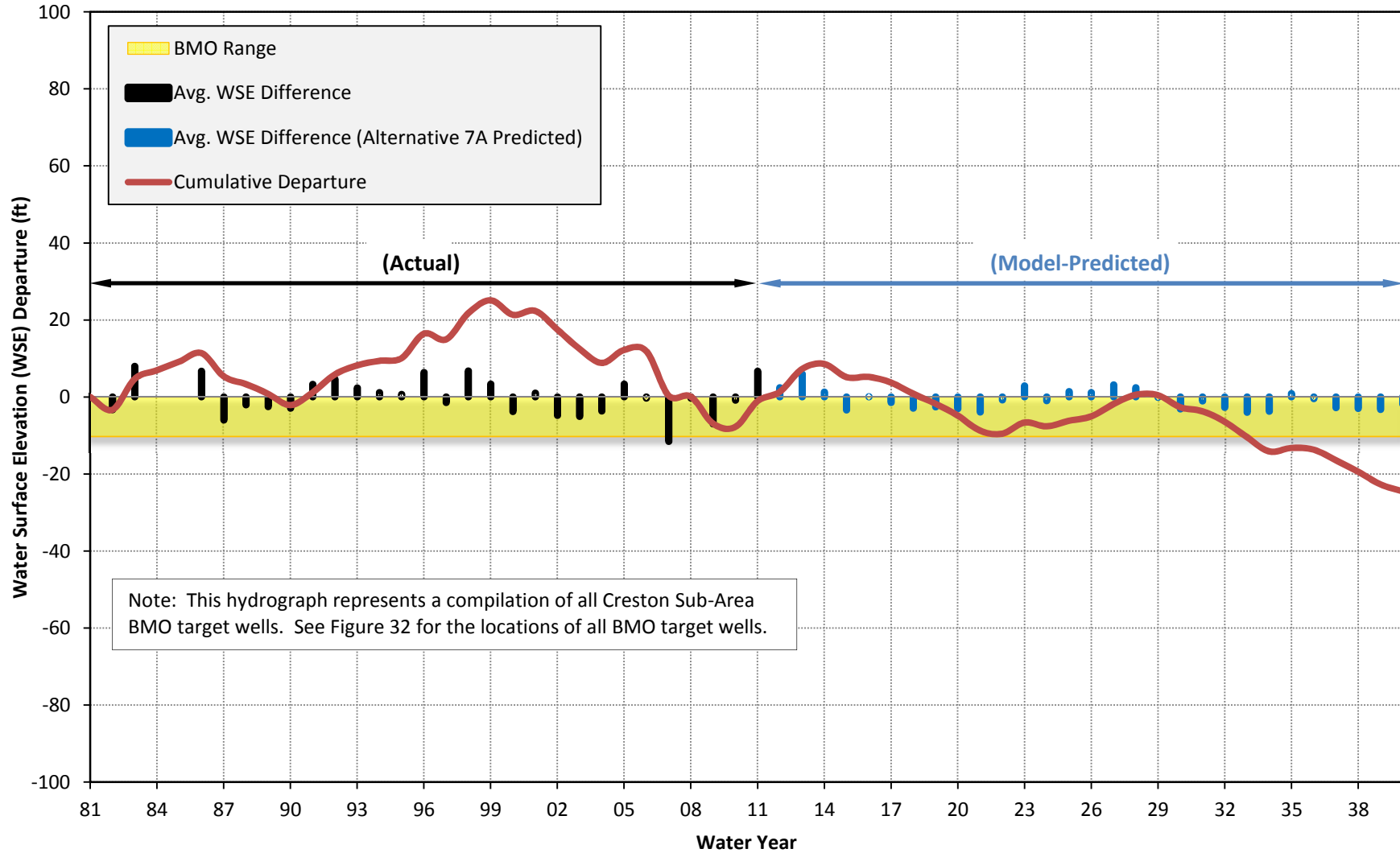
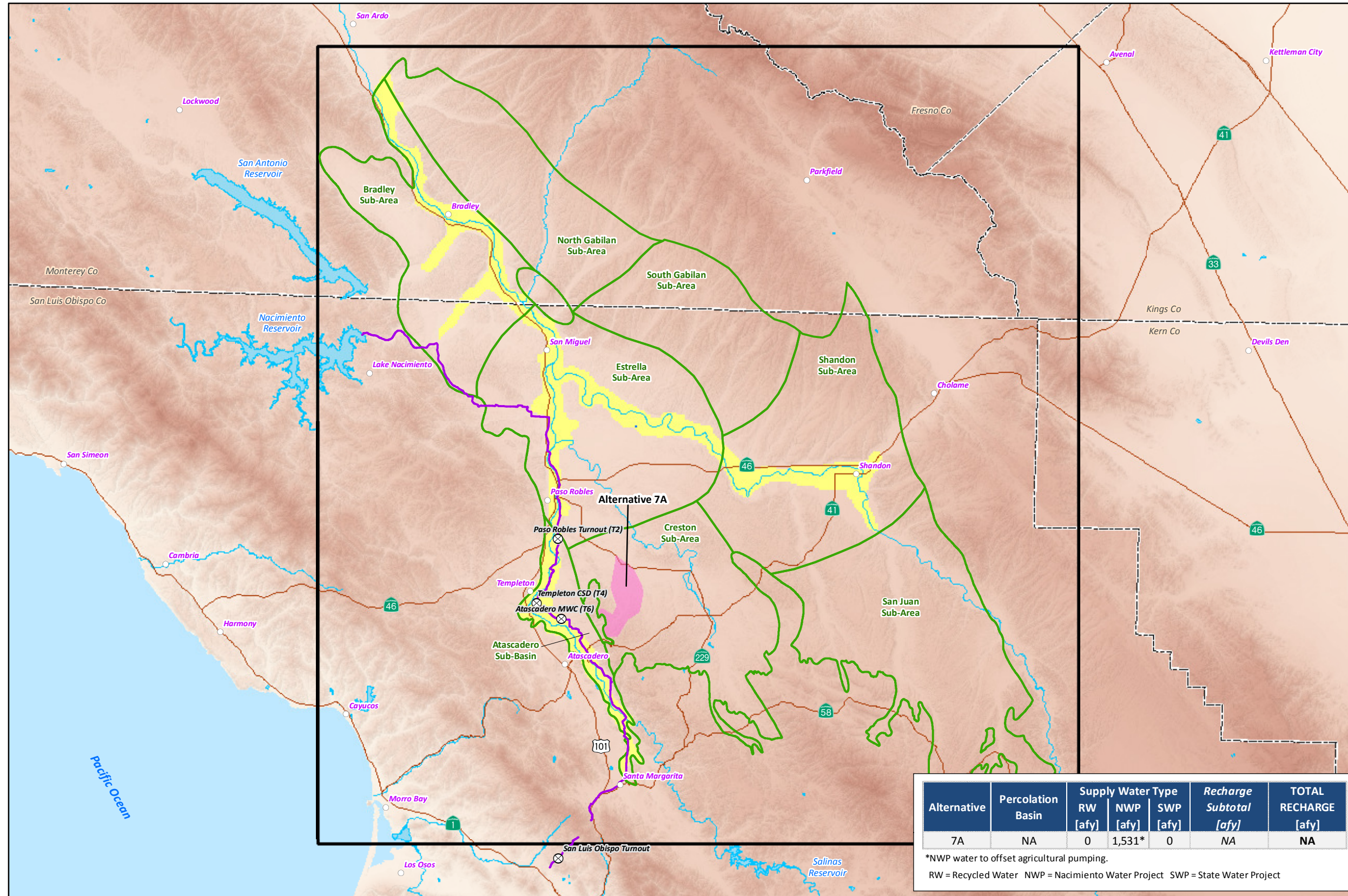


Figure 120



**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 7A AND UPDATED BASELINE (MODEL LAYER 1)**

**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

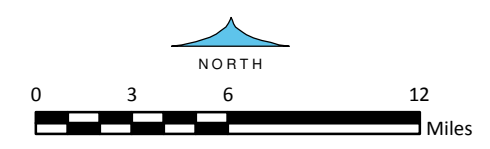
More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

- Selected Area to Offset Agricultural Pumping for Alternative 7A
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- Nacimiento Water Project Turnout
- County Boundary

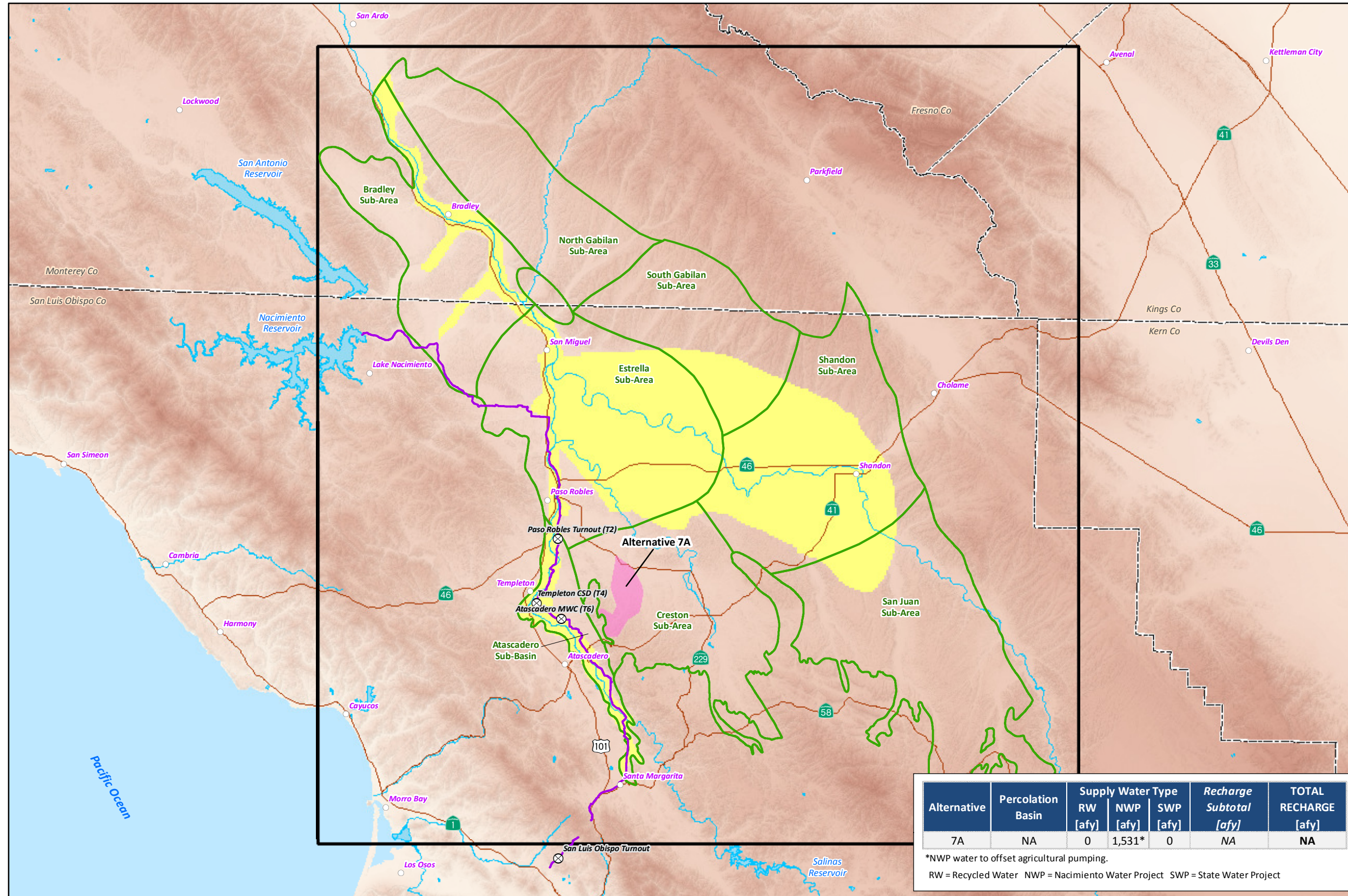
Notes:  
Model Layer 1 represents recent alluvial deposits.

Alternative	Percolation Basin	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
7A	NA	0	1,531*	0	NA	NA

\*NWP water to offset agricultural pumping.  
RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project



W:\GIS\_proj\co\_slo\_paso\_robles\_model\34\_Fig\_121\_L1\_gw\_elev\_change\_flood\_Alt7Aandbaseline\_12-16.mxd



**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 7A AND UPDATED BASELINE (MODEL LAYER 2)**

**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

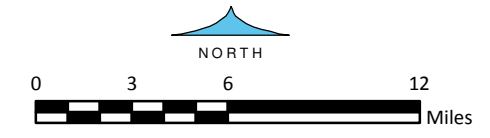
More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

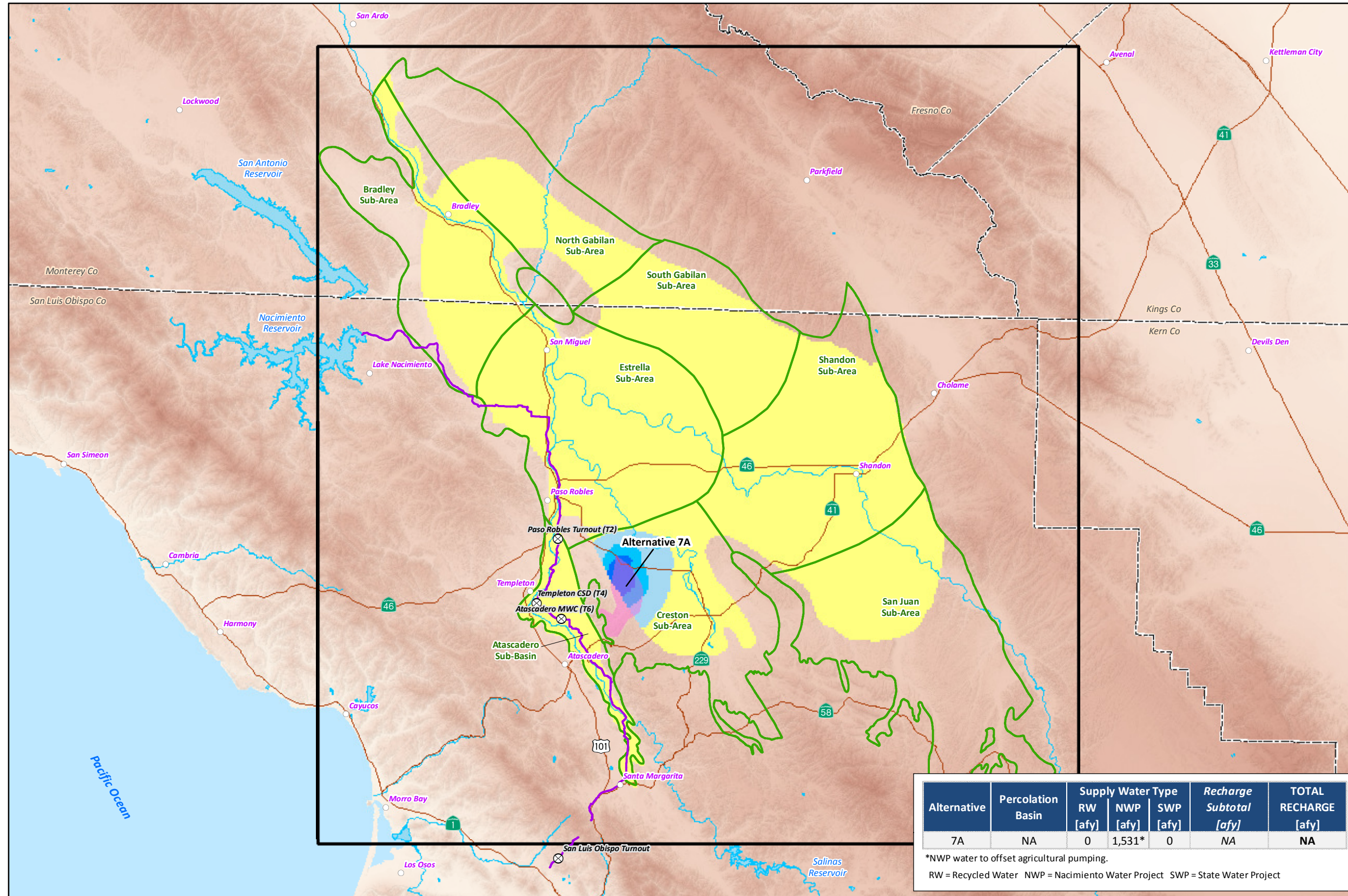
- Selected Area to Offset Agricultural Pumping for Alternative 7A
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- Nacimiento Water Project Turnout
- County Boundary

Notes:  
Model Layer 2 represents the upper portion of the Paso Robles Formation.

Alternative	Percolation Basin	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
7A	NA	0	1,531*	0	NA	NA

\*NWP water to offset agricultural pumping.  
RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project





**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 7A AND UPDATED BASELINE (MODEL LAYER 3)**

**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

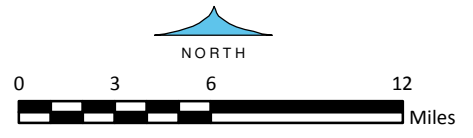
More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

- Selected Area to Offset Agricultural Pumping for Alternative 7A
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project Pipeline
- Nacimiento Water Project Turnout
- County Boundary

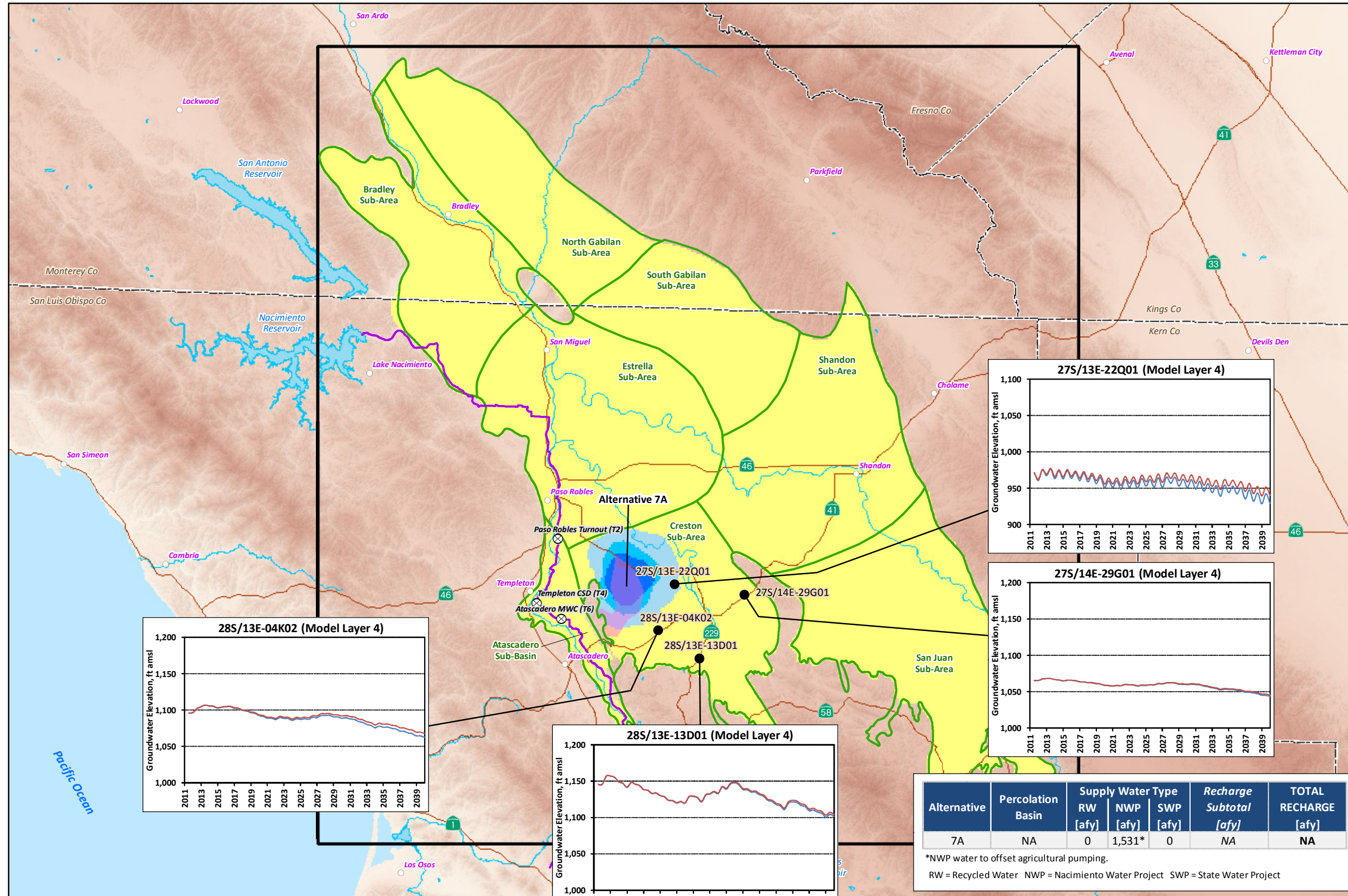
Notes:  
Model Layer 3 represents the portion of the Paso Robles Formation which covers most of the basin.

Alternative	Percolation Basin	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
7A	NA	0	1,531*	0	NA	NA

\*NWP water to offset agricultural pumping.  
RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

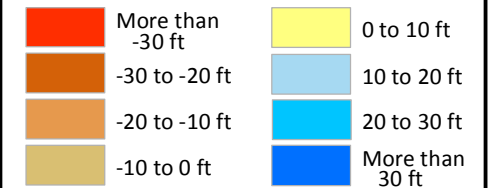


**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 7A AND UPDATED BASELINE (MODEL LAYER 4)**



**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)



Selected Area to Offset Agricultural Pumping for Alternative 7A

BMO Target Well

Model-Predicted Groundwater Elevation  
 Alternative  
 Updated Baseline

Paso Robles Groundwater Basin Model Domain

Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)

Nacimiento Water Project Pipeline

Nacimiento Water Project Turnout

County Boundary

Notes:  
 Model Layer 4 represents the deepest portion of the Paso Robles Formation.

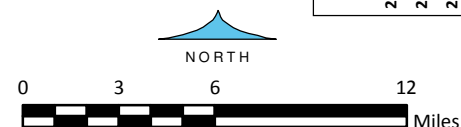
Alternative	Percolation Basin	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
7A	NA	0	1,531*	0	NA	NA

\*NWP water to offset agricultural pumping.  
 RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

6-Dec-16

Prepared by: DB. Map Projection: State Plane 1983, Zone V.

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**Figure 124**

### Spring Water Surface Elevation (WSE) Trends - Alternative 7B (2012-2040) Creston Sub-Area

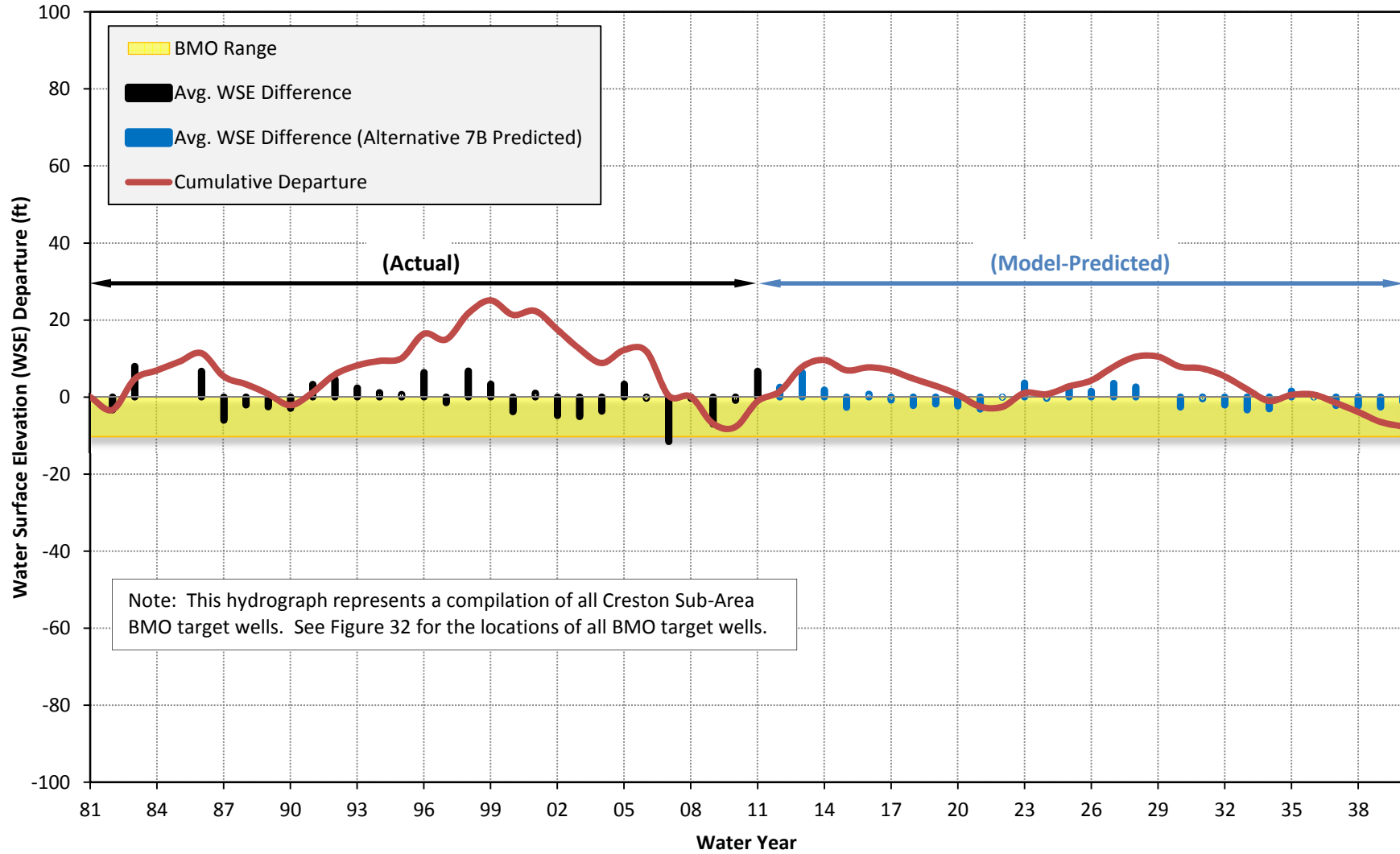
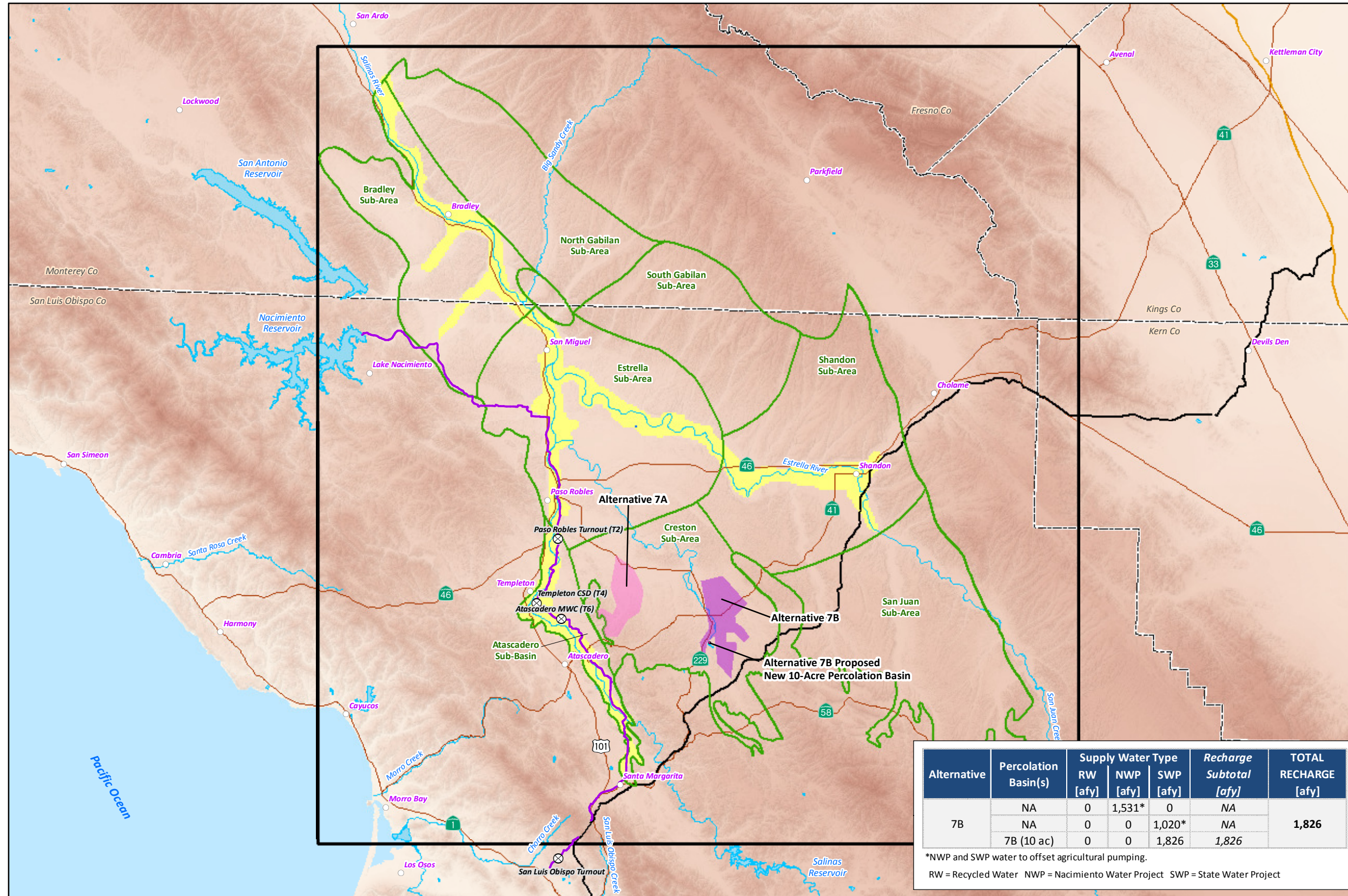


Figure 125

**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 7B AND UPDATED BASELINE (MODEL LAYER 1)**



**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

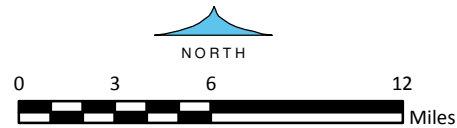
More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

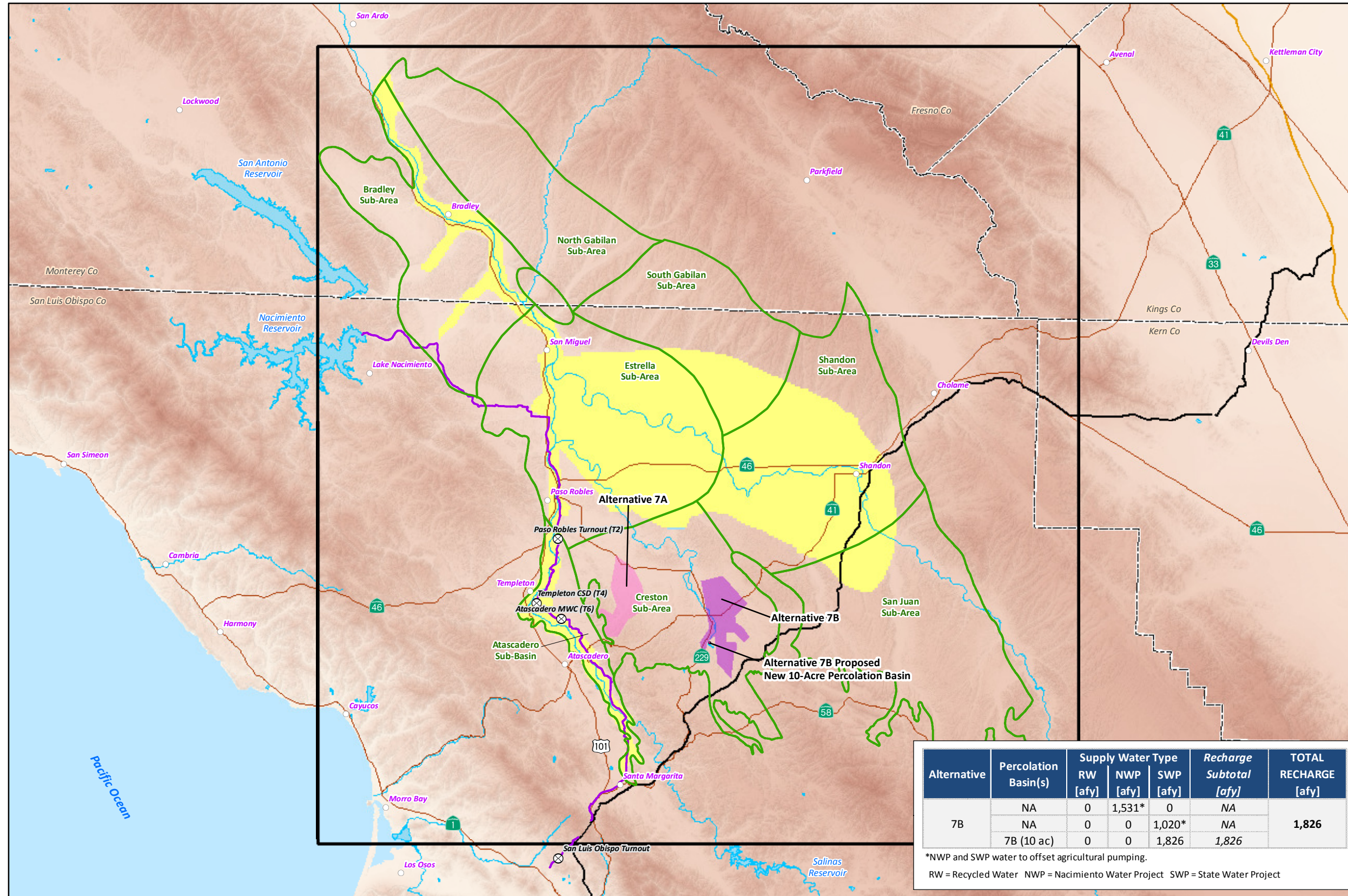
- Selected Area to Offset Agricultural Pumping for Alternative 7A
- Selected Area to Offset Agricultural Pumping for Alternative 7B
- Alternative 7B Proposed New 10-Acre Percolation Basin
- California Aqueduct
- Coastal Branch of the State Water Project Pipeline
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project (NWP) Pipeline
- NWP Turnout
- County Boundary

Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
7B	NA	0	1,531*	0	NA	1,826
	NA	0	0	1,020*	NA	
	7B (10 ac)	0	0	1,826	1,826	

\*NWP and SWP water to offset agricultural pumping.  
 RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

Notes:  
 Model Layer 1 represents recent alluvial deposits.





**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 7B AND UPDATED BASELINE (MODEL LAYER 2)**

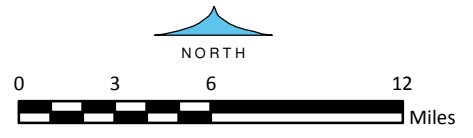
**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

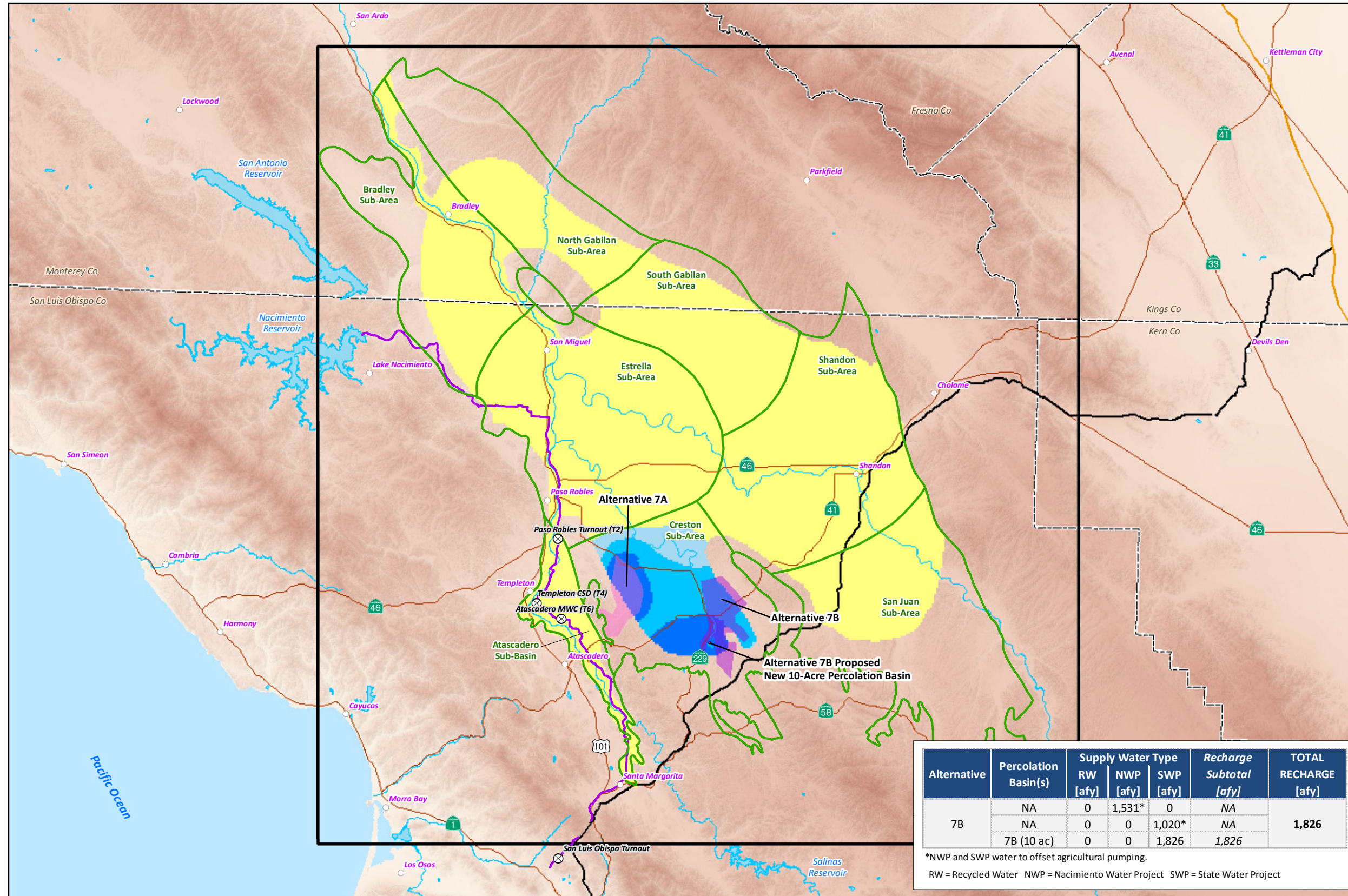
- Selected Area to Offset Agricultural Pumping for Alternative 7A
- Selected Area to Offset Agricultural Pumping for Alternative 7B
- Alternative 7B Proposed New 10-Acre Percolation Basin
- California Aqueduct
- Coastal Branch of the State Water Project Pipeline
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project (NWP) Pipeline
- NWP Turnout
- County Boundary

Notes:  
Model Layer 2 represents the upper portion of the Paso Robles Formation.





**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 7B AND UPDATED BASELINE (MODEL LAYER 3)**



**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)

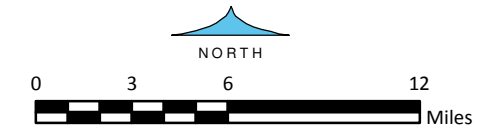
More than -30 ft	0 to 10 ft
-30 to -20 ft	10 to 20 ft
-20 to -10 ft	20 to 30 ft
-10 to 0 ft	More than 30 ft

- Selected Area to Offset Agricultural Pumping for Alternative 7A
- Selected Area to Offset Agricultural Pumping for Alternative 7B
- Alternative 7B Proposed New 10-Acre Percolation Basin
- California Aqueduct
- Coastal Branch of the State Water Project Pipeline
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimiento Water Project (NWP) Pipeline
- NWP Turnout
- County Boundary

Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
7B	NA	0	1,531*	0	NA	1,826
	NA	0	0	1,020*	NA	
	7B (10 ac)	0	0	1,826	1,826	

\*NWP and SWP water to offset agricultural pumping.  
RW = Recycled Water NWP = Nacimiento Water Project SWP = State Water Project

Notes:  
Model Layer 3 represents the portion of the Paso Robles Formation which covers most of the basin.

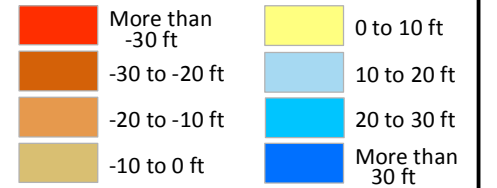


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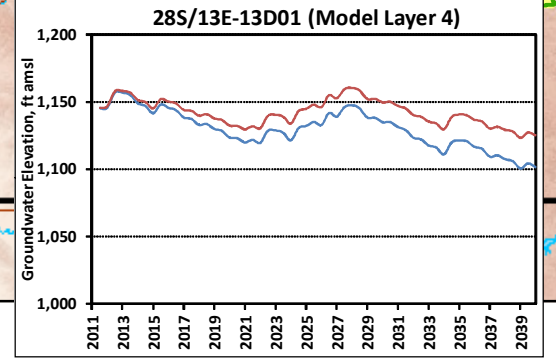
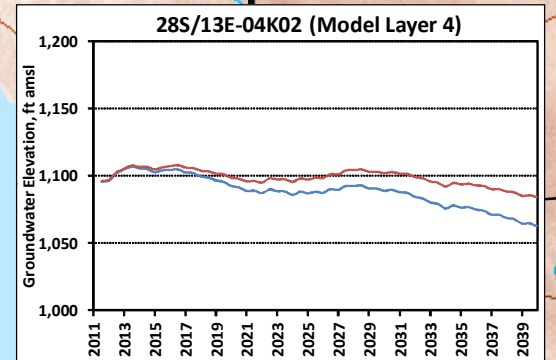
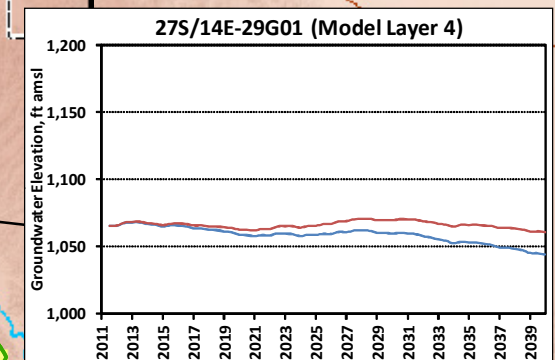
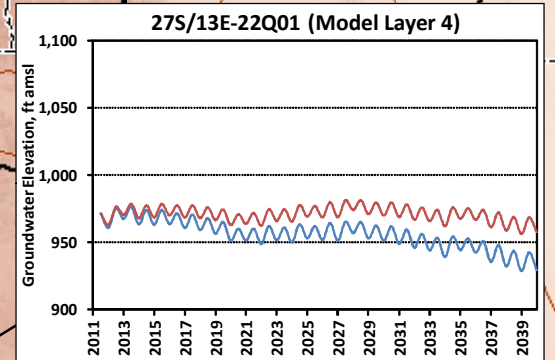
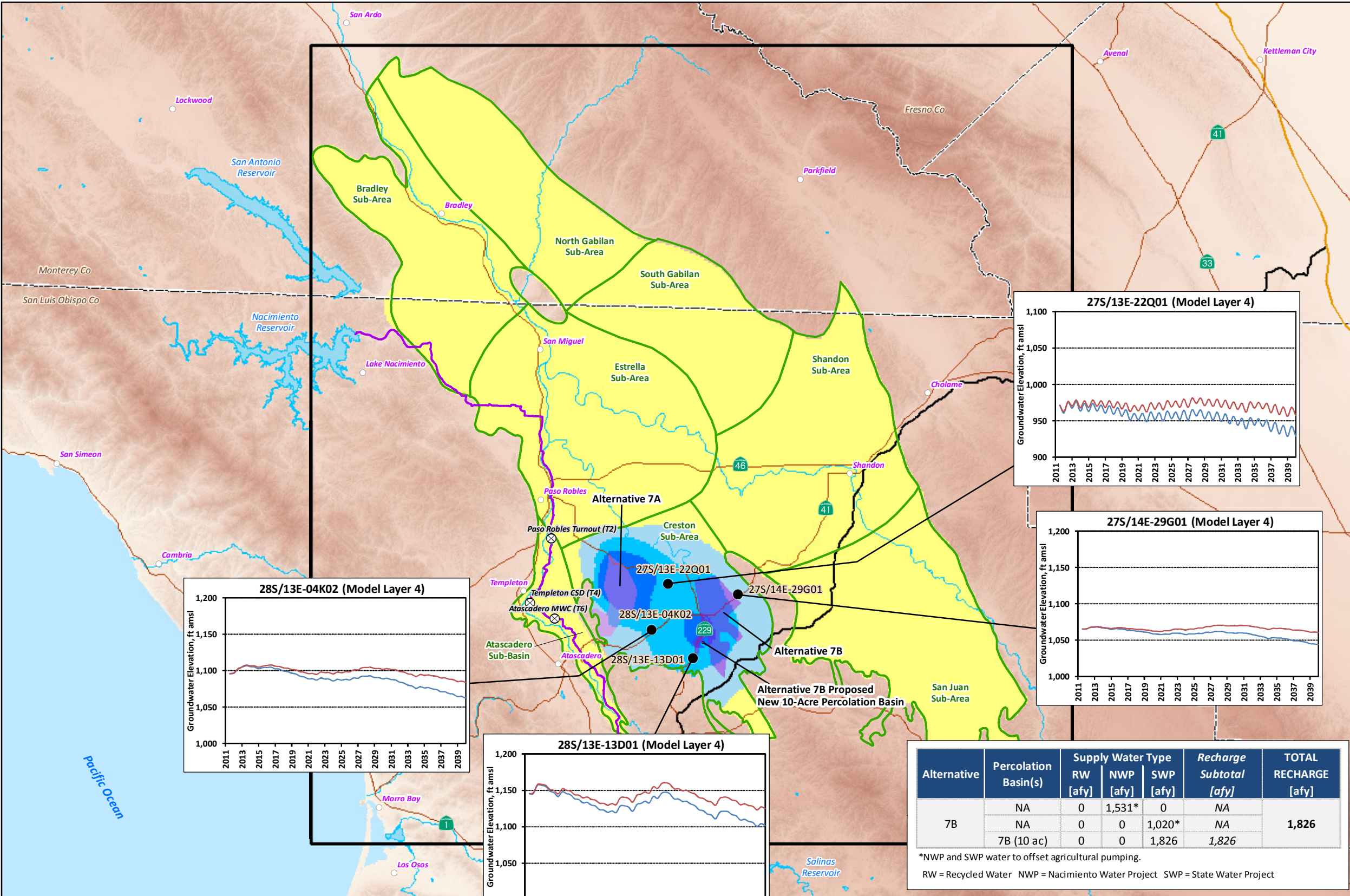
**MODEL-PREDICTED CHANGES IN GROUNDWATER ELEVATIONS BETWEEN ALTERNATIVE 7B AND UPDATED BASELINE (MODEL LAYER 4)**

**EXPLANATION**

Model-Predicted Changes in Groundwater Elevations (ft)



- BMO Target Well
- Model-Predicted Groundwater Elevation
  - Alternative
  - Updated Baseline
- Selected Area to Offset Agricultural Pumping for Alternative 7A
- Selected Area to Offset Agricultural Pumping for Alternative 7B
- Alternative 7B Proposed New 10-Acre Percolation Basin
- California Aqueduct
- Coastal Branch of the State Water Project Pipeline
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Boundary with Sub-Areas (Source: Fugro and Cleath, 2002)
- Nacimientto Water Project (NWP) Pipeline
- NWP Turnout
- County Boundary



Alternative	Percolation Basin(s)	Supply Water Type			Recharge Subtotal [afy]	TOTAL RECHARGE [afy]
		RW [afy]	NWP [afy]	SWP [afy]		
7B	NA	0	1,531*	0	NA	1,826
	NA	0	0	1,020*	NA	
	7B (10 ac)	0	0	1,826	1,826	

\*NWP and SWP water to offset agricultural pumping.  
 RW = Recycled Water NWP = Nacimientto Water Project SWP = State Water Project

Notes:  
 Model Layer 4 represents the deepest portion of the Paso Robles Formation.

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