# **Salinas Valley Basin GSA**

#### **SMC Options and Additional Data**

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Prepared by





# **SMC:** Groundwater Levels



## Cumulative Change in Groundwater Elevati



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## Domestic Well Analysis – 2015 water levels

Wells with accurate locations and drilled post 1990				
	Shallow Zone	Deep Zone		
Impacted Domestic Wells	0	0		
Total Wells	9	11		
Percentage	0%	0%		

Wells with accurate locations				
	Shallow Zone	Deep Zone		
Impacted Domestic Wells	5	0		
Total Wells	17	11		
Percentage	29%	0%		

Wells drilled post 1990				
	Shallow Zone	Deep Zone		
Impacted Domestic Wells	8	0		
Total Wells	29	41		
Percentage	28%	0%		

All wells with inaccurate locations and all wells historically				
2				
54				
1%				



# Groundwater Elevation and Groundwater Quality Relationships

Does groundwater quality data provide guidance on what groundwater levels are too low?



#### Nitrate Temporal Trends for Representative Areas



# Nitrate temporal trends in specific wells in each representative area







16



### However ... Groundwater Levels Show a Trend. Low Groundwater Levels are Correlated with Nitrate Loading















## Conclusions

- Groundwater quality has degraded since 1982 in much of the Eastside Subbasin and groundwater elevations have slowly declined since 1982 in much of the Eastside Subbasin
- The decline in groundwater quality may be due to either additional loading of constituents, or lowering of groundwater elevations
  - Arsenic data suggest loading is more important that groundwater elevation
- No definitive data for setting groundwater elevations based on groundwater quality

