



To: cr_board_clerk Clerk Recorder/ClerkRec/COSLO@Wings,
Cc:
Bcc:
Subject: Fw: February 24, 2015 BoS meeting, Agenda Item #31
From: Cytasha Campa/BOS/COSLO - Monday 02/23/2015 08:17 AM

Kindest regards,

Cytasha Campa

Secretary to the Board of Supervisors

San Luis Obispo County

805-781-4335

----- Forwarded by Cytasha Campa/BOS/COSLO on 02/23/2015 08:17 AM -----

From: "Sue Luft" <aslft@wildblue.net>
To: "Debbie Arnold - Supervisor" <darnold@co.slo.ca.us>, "Frank Mecham - Supervisor" <fmecham@co.slo.ca.us>, "Bruce Gibson - Supervisor" <bgibson@co.slo.ca.us>, "Adam Hill - Supervisor" <ahill@co.slo.ca.us>, "Lynn Compton - Supervisor" <lcompton@co.slo.ca.us>, "Cytasha Campa" <ccampa@co.slo.ca.us>, "Trevor Keith" <tkeith@co.slo.ca.us>, "Courtney Howard" <choward@co.slo.ca.us>
Cc:
Date: 02/22/2015 09:49 PM
Subject: February 24, 2015 BoS meeting, Agenda Item #31

Supervisors,

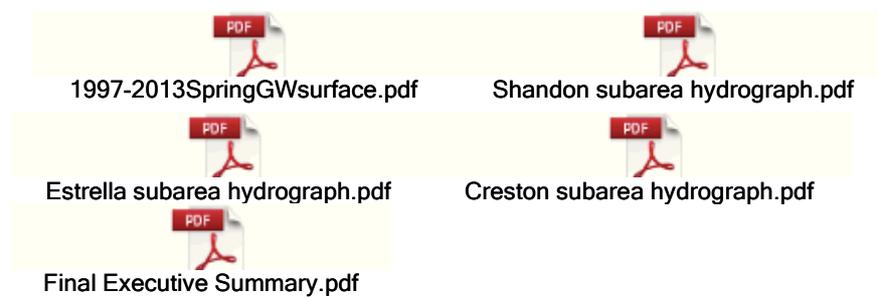
I wanted to make sure that relevant data regarding the Paso Robles Groundwater Basin was readily available for you. Attached are the following:

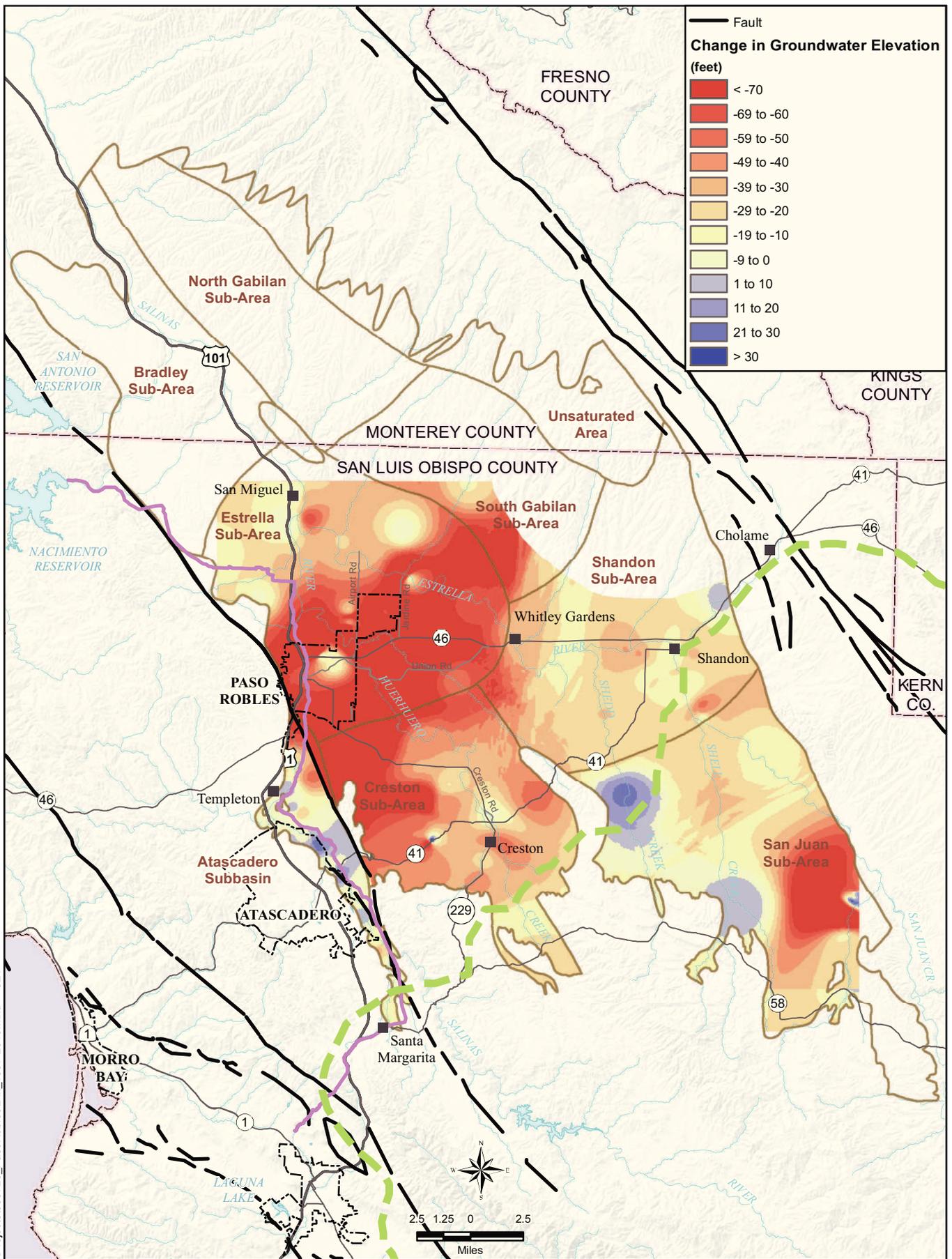
- Well level decline map for 1997-2013, the "red zone" map. Since pumping increased and virtually no recharge took place during 2014, the declines are certainly worse now than are shown. Also, the deepest red color indicates greater than 70 ft declines during this timeframe. However, many well levels have dropped more than 70 feet. In fact, our well has dropped over 130 ft since it was drilled in 1998. We are in the Creston subarea, deep in the "red zone". As you can see from the map, a large portion of the Creston subarea is in the red zone.
- Well level hydrographs for the Creston, Estrella and Shandon subareas through spring, 2014. These hydrographs all show well levels below the Basin Management Objectives (the yellow bar).
- The Final Executive Summary for the computer model update. Page ES-7 provides the average annual change in groundwater storage (inflow minus outflow) during the period 1981-2011, which is approximately -2,400 acre-ft per year (AFY). As of 2011, the Paso Basin was **2,400 AFY** in overdraft, on average. Note that this does not take into account the water use from approximately 4,000 acres of new vineyard plantings during 2012-2014. The future scenarios for water years 2012-2040 are listed on page ES-10. The baseline (2011) with no growth

scenario (which excludes the new water uses of 2012-2014) projects an overdraft of **5,600 AFY** on average. The baseline with growth scenario (assumed to be 1% growth from 2018 to 2040) projects an overdraft of **26,000 AFY** on average.

This data clearly shows that much of the Paso Basin has been in decline for many years , and that the overdraft is projected to get much worse even at a relatively low growth rate. If interim management measures for the basin (i.e. an ordinance to replace the current urgency ordinance) are not adopted, balancing the basin will become extremely difficult .

Sue Luft
Rural El Pomar





20-Aug-2013 Z:\Projects\083720_PasoRobles\Diff_1997-2013.mxd SET

| | | |
|--|------------------------|---|
| Paso Robles Groundwater Basin In San Luis Obispo County | | GENERALIZED DIFFERENCE IN SPRING GROUND- WATER ELEVATIONS BETWEEN 1997 - 2013 |
| San Luis Obispo County, California | GEI Consultants | AUGUST 2013 |

FIGURE 1
Item No. 31

Meeting Date: February 24, 2015

Presented by: Sue Luft

Rec'd prior to meeting & posted to web on: February 23, 2015

Sub-Area WSE Trend Analysis

Mon. Entity The County of San Luis Obispo, CA

Date 08/06/2014

| Sub-Area Information | |
|----------------------|-------------|
| Sub-Area | Shandon |
| Basin Name | Paso Robles |

| Sub-Area Well Records | |
|-----------------------|-----------|
| Period of Record | 1976-2014 |
| Num. BMO Wells | 4 |

| Report Information | |
|--------------------|-----------|
| Report Start Year | 1981 |
| Period of Record | 1981-2014 |

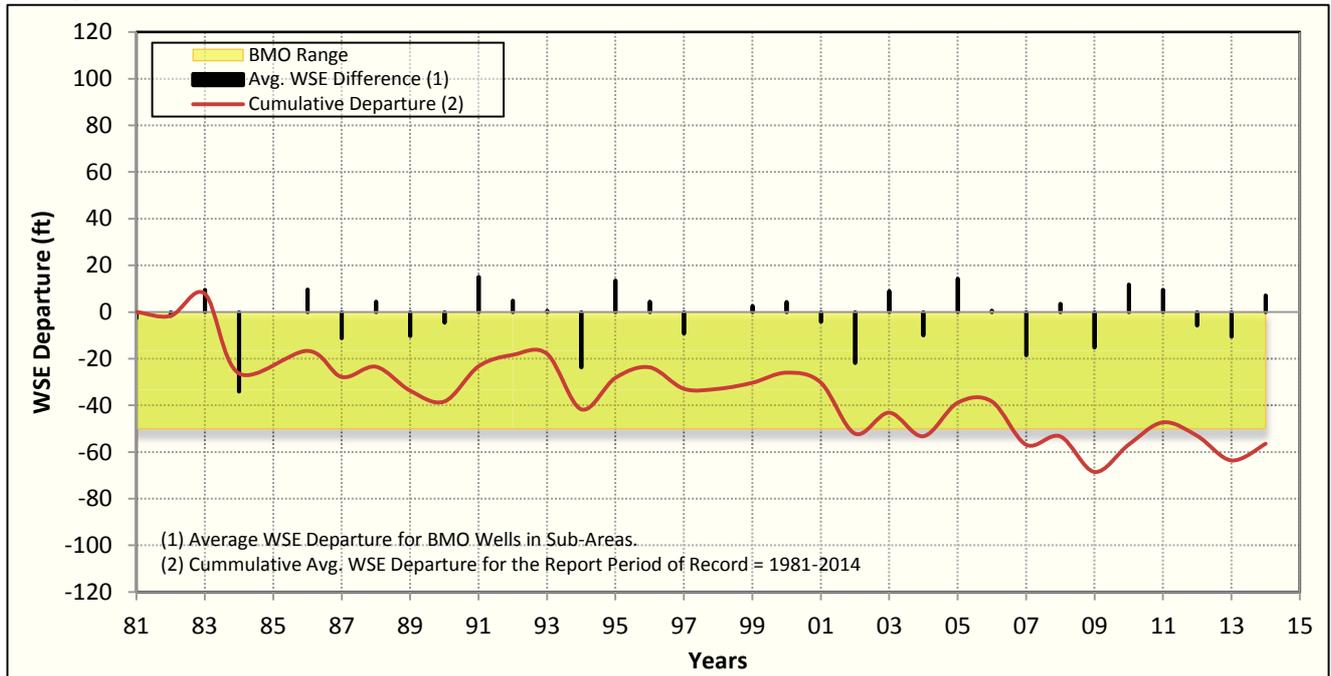
| Raingage Information | |
|----------------------|-----------------|
| Raingage Name | Paso Robles #10 |
| Raingage Elev. | 700.00 ft |

| Raingage Records | |
|------------------|-----------|
| Period of Record | 1887-2014 |
| Average Precip. | 14.93 in |

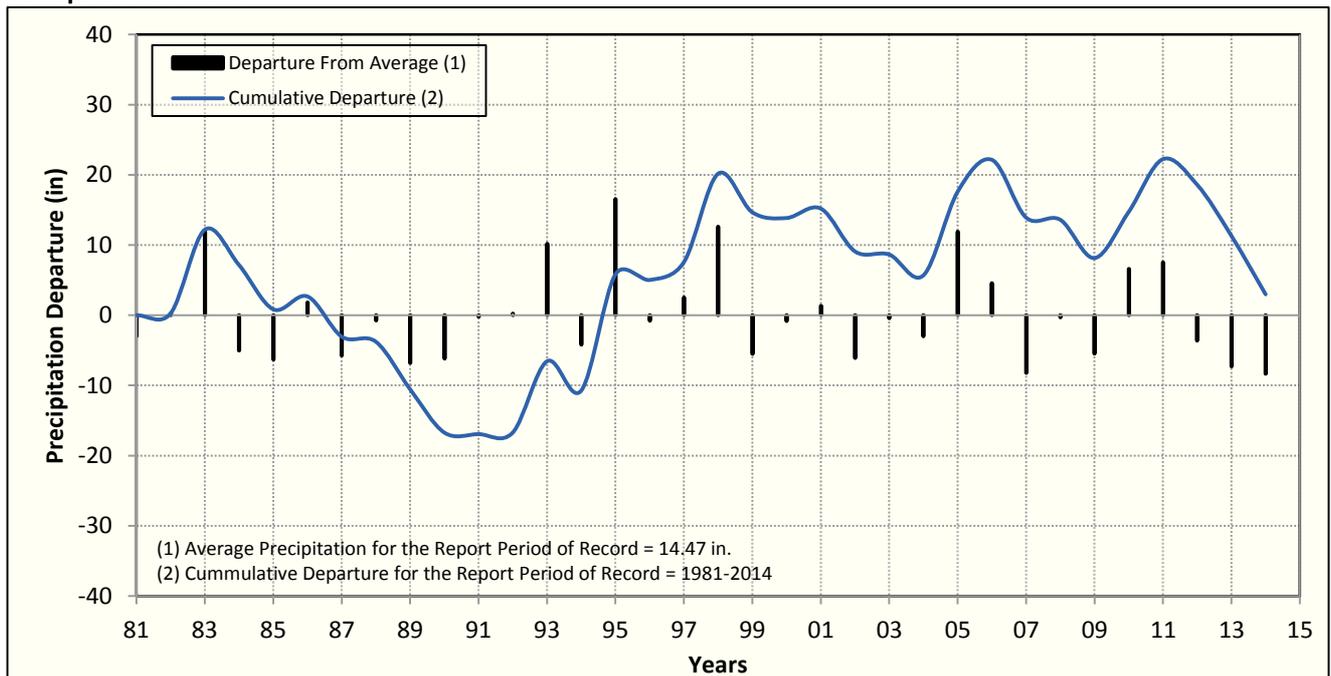
| Trend Analysis Results | |
|--------------------------|------------|
| BMO Target ¹⁾ | (50.00 ft) |
| 2014 CD | (56.45 ft) |

NOTES: 1) The Basin Management Objective (BMO) is to maintain the Cummulative Departure (CD) above the BMO Target

Spring Water Surface Elevation (WSE) Trends



Precipitation Trends



Sub-Area WSE Trend Analysis

Mon. Entity The County of San Luis Obispo, CA

Date 08/06/2014

| Sub-Area Information | |
|----------------------|-------------|
| Sub-Area | Estrella |
| Basin Name | Paso Robles |

| Sub-Area Well Records | |
|-----------------------|-----------|
| Period of Record | 1977-2014 |
| Num. BMO Wells | 6 |

| Report Information | |
|--------------------|-----------|
| Report Start Year | 1981 |
| Period of Record | 1981-2014 |

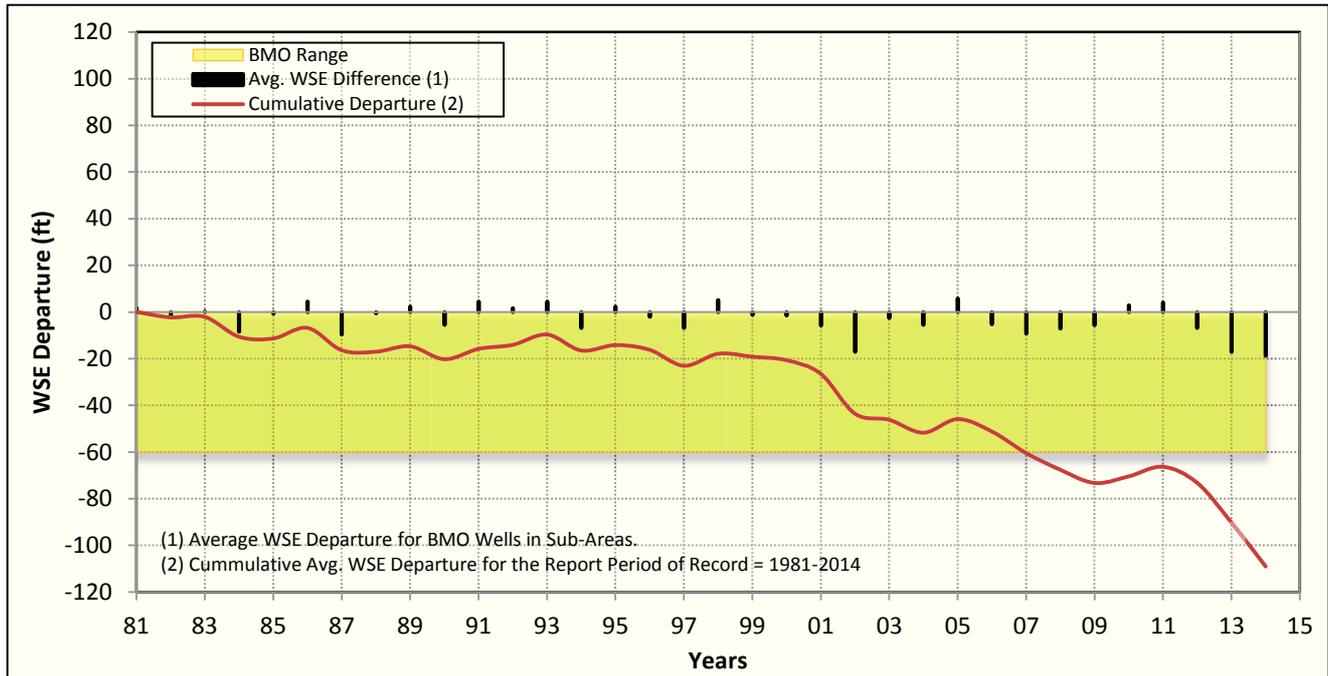
| Raingage Information | |
|----------------------|-----------------|
| Raingage Name | Paso Robles #10 |
| Raingage Elev. | 700.00 ft |

| Raingage Records | |
|------------------|-----------|
| Period of Record | 1887-2014 |
| Average Precip. | 14.93 in |

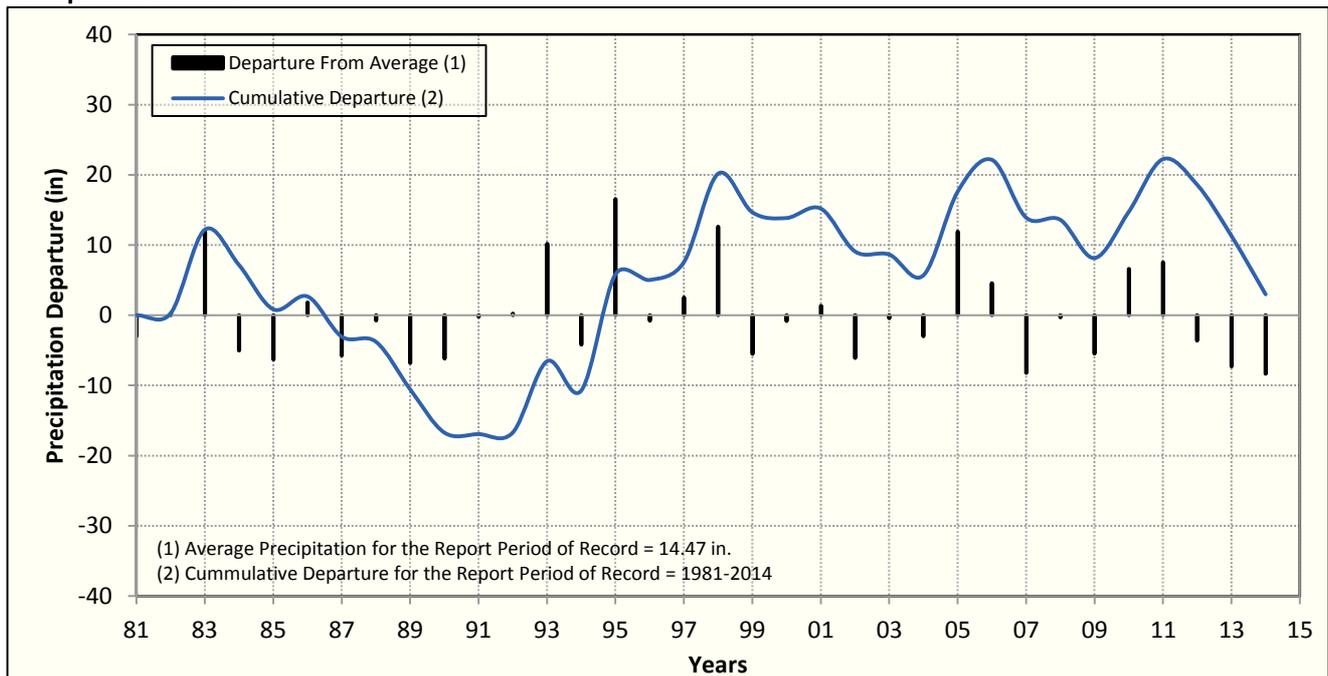
| Trend Analysis Results | |
|--------------------------|-------------|
| BMO Target ¹⁾ | (60.00 ft) |
| 2014 CD | (109.00 ft) |

NOTES: 1) The Basin Management Objective (BMO) is to maintain the Cummulative Departure (CD) above the BMO Target

Spring Water Surface Elevation (WSE) Trends



Precipitation Trends



Sub-Area WSE Trend Analysis

Mon. Entity The County of San Luis Obispo, CA

Date 08/06/2014

| Sub-Area Information | |
|----------------------|-------------|
| Sub-Area | Creston |
| Basin Name | Paso Robles |

| Sub-Area Well Records | |
|-----------------------|-----------|
| Period of Record | 1975-2014 |
| Num. BMO Wells | 4 |

| Report Information | |
|--------------------|-----------|
| Report Start Year | 1981 |
| Period of Record | 1981-2014 |

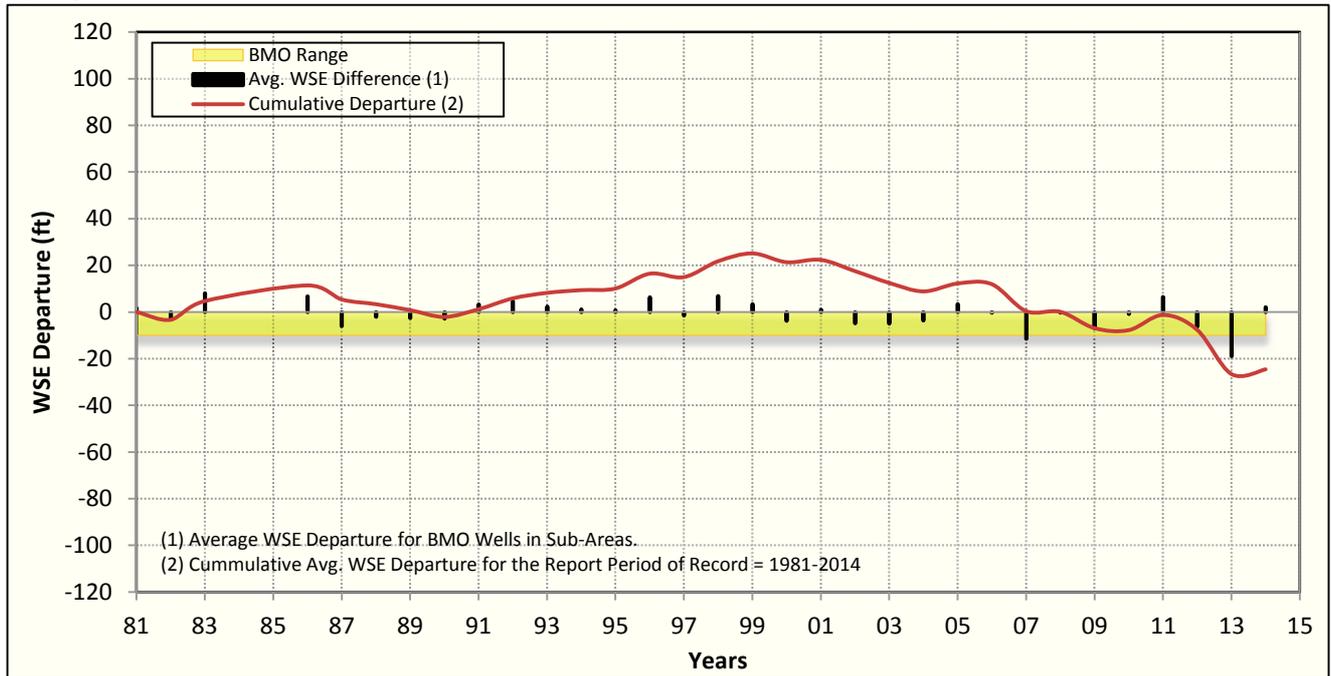
| Raingage Information | |
|----------------------|-----------------|
| Raingage Name | Paso Robles #10 |
| Raingage Elev. | 700.00 ft |

| Raingage Records | |
|------------------|-----------|
| Period of Record | 1887-2014 |
| Average Precip. | 14.93 in |

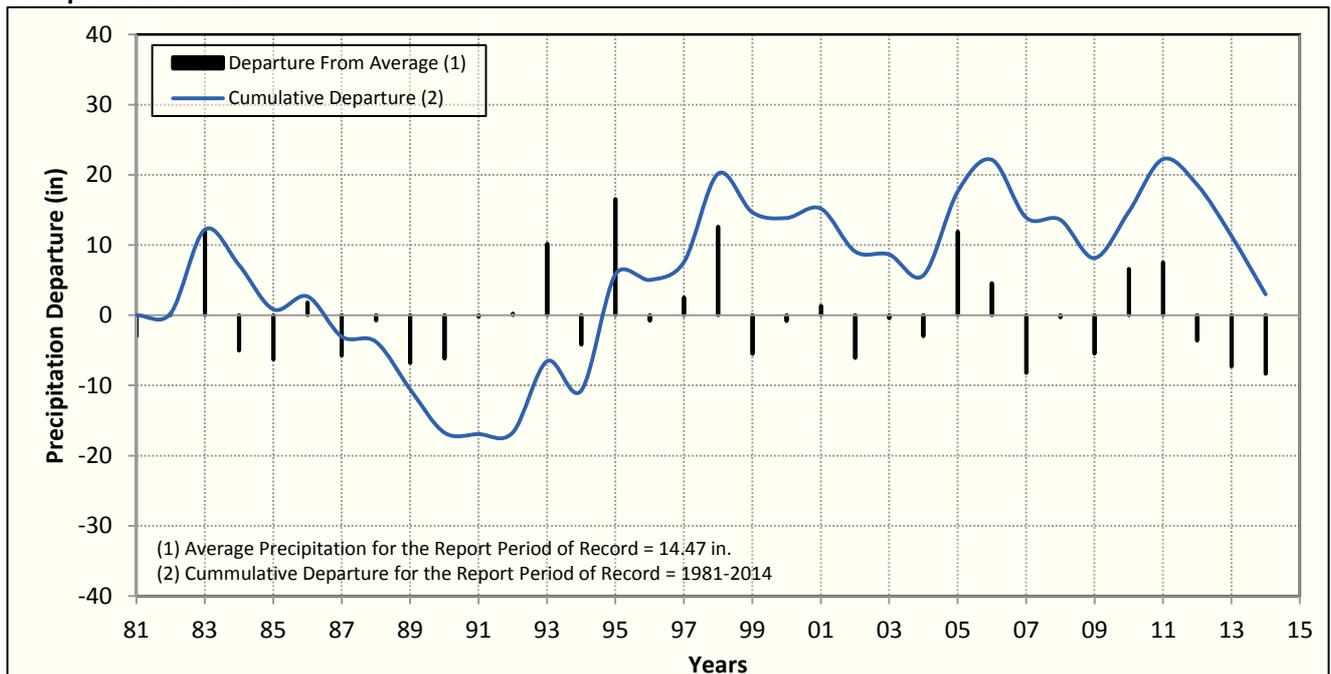
| Trend Analysis Results | |
|--------------------------|------------|
| BMO Target ¹⁾ | (10.00 ft) |
| 2014 CD | (24.57 ft) |

NOTES: 1) The Basin Management Objective (BMO) is to maintain the Cummulative Departure (CD) above the BMO Target

Spring Water Surface Elevation (WSE) Trends



Precipitation Trends



Paso Robles Groundwater Basin Model Update Executive Summary

PREPARED FOR:

San Luis Obispo County Flood Control
and Water Conservation District

December 23, 2014

PREPARED BY:

GEOSCIENCE

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P.O. Box 220, Claremont, CA 91711 | P: 909.451.6650 | F. 909.451.6638 | www.gssiwater.com

In association with: **Todd Groundwater**

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Item No. 31

Meeting Date: February 24, 2015

Presented by: Sue Luft

Rec'd prior to meeting & posted to web on: February 23, 2015

**SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
PASO ROBLES GROUNDWATER BASIN MODEL UPDATE**

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**SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
PASO ROBLES GROUNDWATER BASIN MODEL UPDATE**

1.0 EXECUTIVE SUMMARY

1.1 Introduction

Local agencies, including the San Luis Obispo County Flood Control and Water Conservation District (District) and local stakeholders are working cooperatively to manage the Paso Robles Groundwater Basin (Basin). Work has included extensive monitoring, development of a management plan, conduct of studies, and development in 2005 of a numerical groundwater flow model (Basin Model). This report summarizes the Basin Model Update, which was undertaken to extend the model study period over water years¹ 1981-2011, to improve the water balance assessment and refine the perennial yield, and to evaluate the Basin's response to "Growth" and "No Growth" scenarios projected over the period water years 2012-2040.

The study area consists of the Paso Robles Groundwater Basin which encompasses 790 square miles in the upper Salinas River watershed in northern San Luis Obispo County and southern Monterey County. The initial Basin Model was constructed using MODFLOW, the widely-accepted groundwater flow modeling code² developed by the United States Geologic Survey. Development of the initial Basin Model involved definition of the geologic framework including basin boundaries (such as the boundary between the Atascadero Sub-Basin and the remainder of the Basin) and four layers representing the recent alluvial deposits and portions of the Paso Robles Formation. The initial Basin Model also included estimation of aquifer properties and evaluation of the water balance for the period water years 1981-1997. This Basin Model Update did not change the geologic framework, but focused on update and refinement of the water balance.

¹ A water year is defined as the period from October 1 through September 30.

² Groundwater models are mathematical representations of the movement (both lateral and vertical) of groundwater within a defined system (i.e., basin). These models include assumptions and simplifications made for various specific purposes.

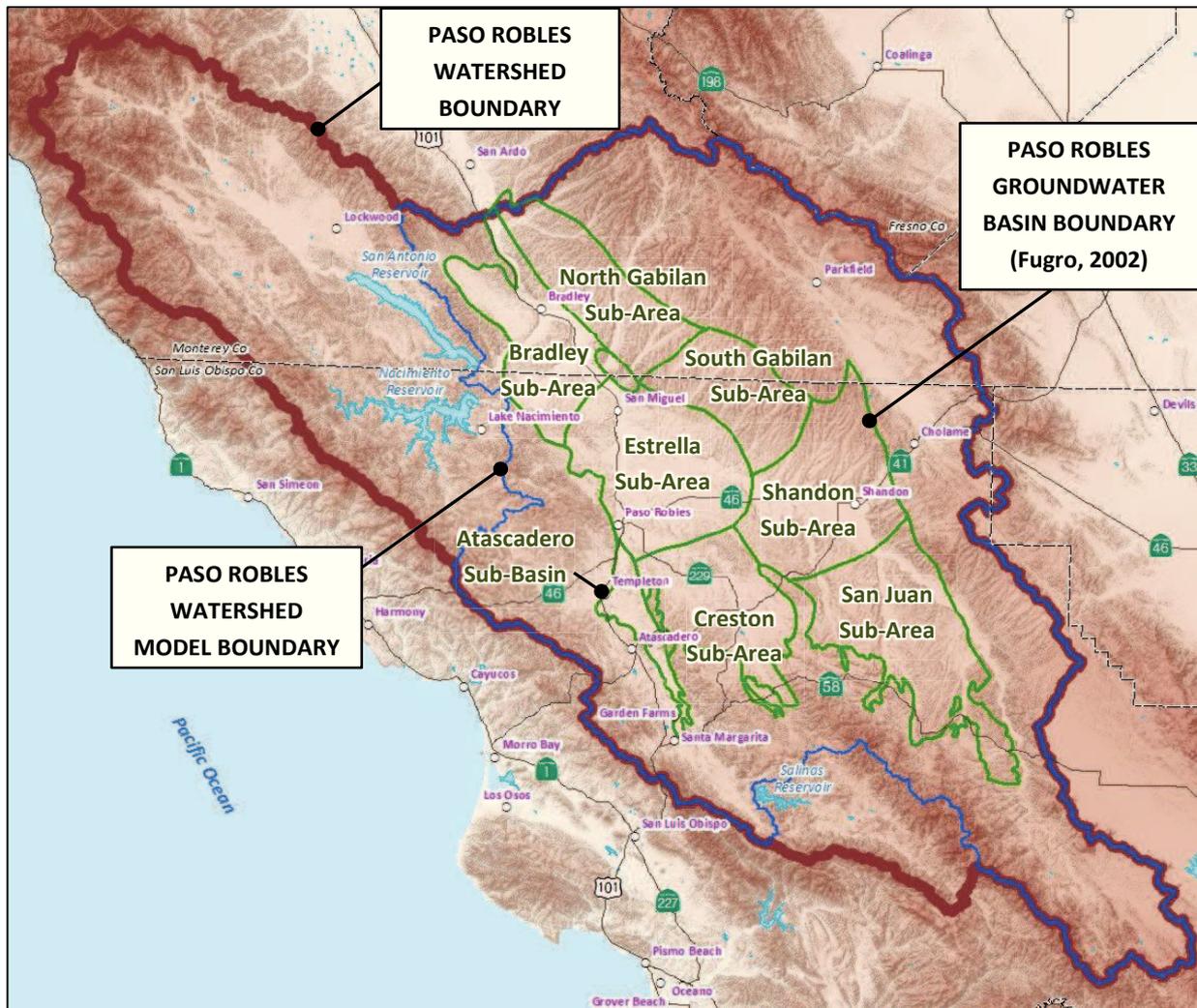


Figure ES-1. Overview of the Paso Robles Groundwater Basin and Surrounding Watershed

1.2 Water Balance Estimation

The Basin Model Update evaluated each component of the water balance independently using available data. The primary groundwater recharge components for the Basin are:

- ▼ Deep percolation of direct precipitation,
- ▼ Deep percolation of streambed seepage,
- ▼ Deep percolation of applied irrigation water,
- ▼ Subsurface inflows through the Basin boundary,
- ▼ Deep percolation of discharged treated wastewater effluent, and
- ▼ Recharge from urban water and sewer pipe leakage.

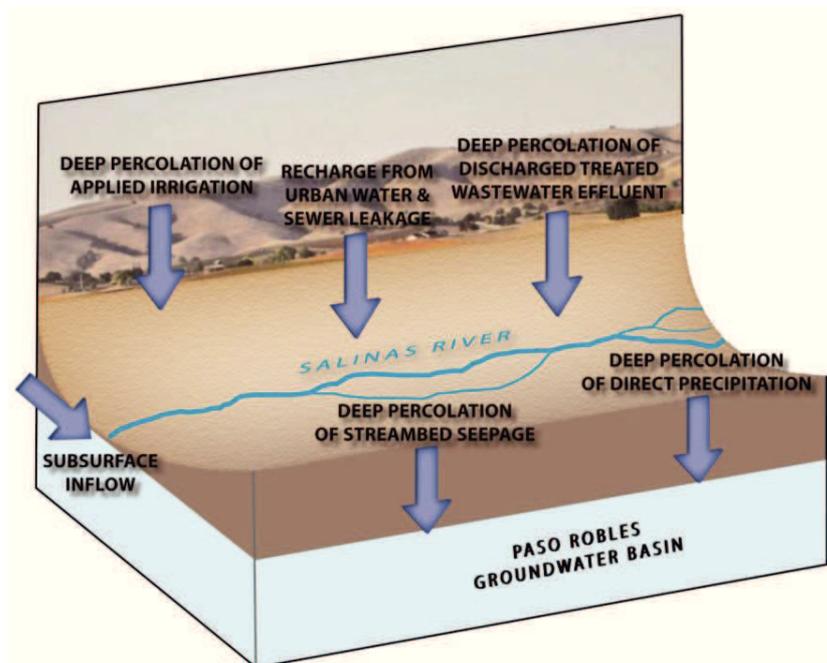


Figure ES-2. Primary Recharge Components for the Paso Robles Groundwater Basin

This report provides detailed description of the data and methodologies used in evaluating each recharge component.

A major new feature was development of a rainfall-runoff model³ of the watershed⁴ that is tributary to the Basin (see Figure ES-1). Such watershed hydrologic modeling uses extensive data to characterize the water balance and hydrologic processes that occur in a watershed. These data include land surface elevations, soil types, land use, precipitation, evaporation, streamflow, surface diversions, reservoir releases, wastewater recharge, crop coefficients, and irrigation efficiency. Historical data were collected, compiled (mostly in spreadsheets and a GIS database), and reviewed prior to incorporating them into the Basin Watershed Model. The available data are summarized in this report and have been made available to the District.

In addition, this report describes the primary steps used to construct the Basin Watershed Model

³ The Watershed Model was developed using the Hydrologic Simulation Program – FORTRAN (HSPF), a successor to the FORTRAN version of the Stanford Watershed Model, widely-used codes developed with support of the United States Environmental Protection Agency (EPA).

⁴ Surface water occurring in the watershed areas above the Nacimiento, San Antonio, and Salinas Reservoirs represent an external source of water coming into the Basin Watershed Model area. As such, daily releases from each reservoir are included as input to the Basin Watershed Model to help establish a water balance.

involving 81 defined sub-watersheds and calibrating to four streamflow gaging stations with relatively long records. These gaging stations include the Salinas River near Bradley (at the outlet of the Basin), Salinas River above Paso Robles, Estrella River near Estrella, and Santa Margarita Creek near Santa Margarita; comparison of model-simulated and measured streamflow indicates a very good match for the Salinas River near Bradley gaging station and good or fair matches for the other stations.

The Basin Watershed Model provided independent analysis of recharge to the Basin, including subsurface inflow and streambed percolation; issues in the estimation of these recharge components had been identified by the initial Paso Robles Basin modelers and later reviewers. These components remain difficult to assess accurately, reflecting a lack of data on percolation rates, streamflow and nearby groundwater levels, particularly around the margins of the Basin. As a result, these components became a major topic of the peer review conducted near the end of the Basin Model Update process and a focus of subsequent recommendations for additional model refinement.

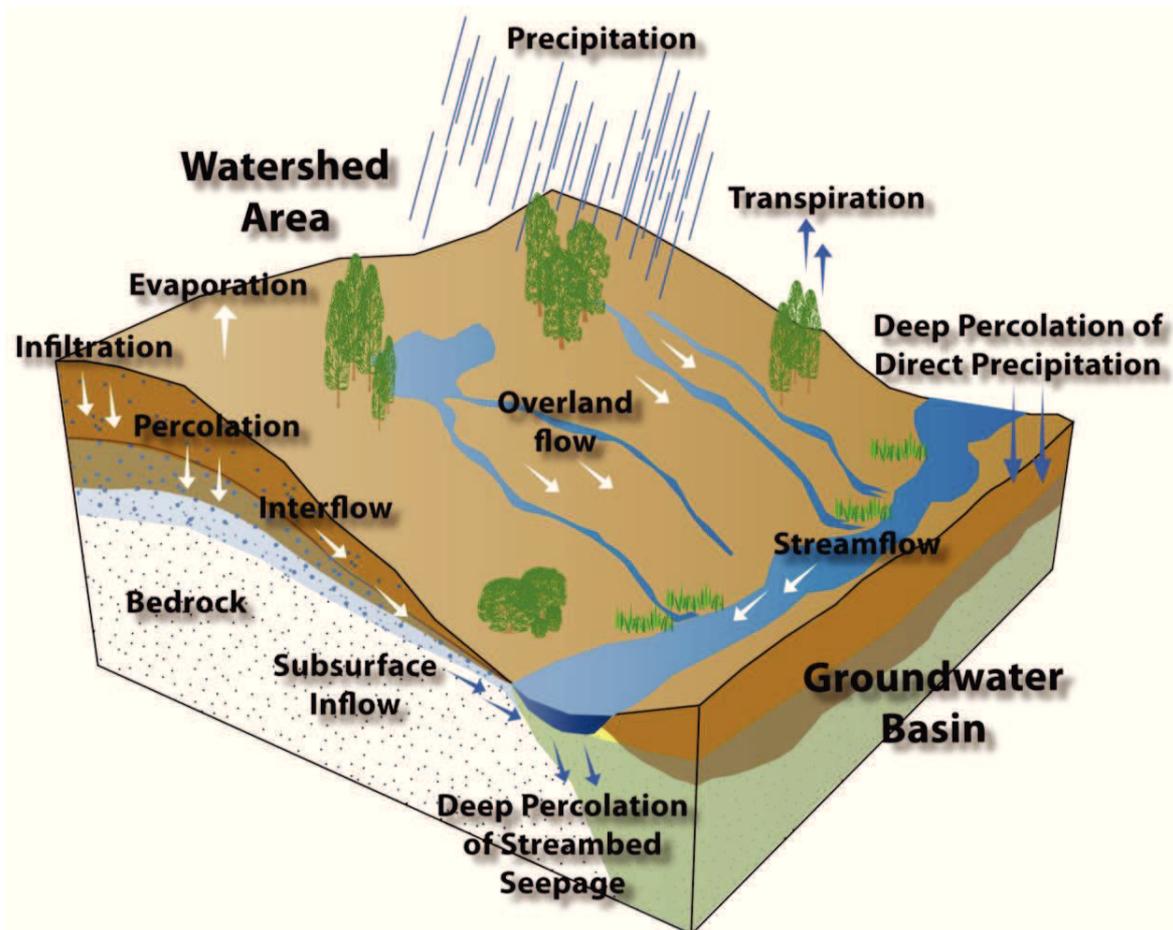


Figure ES-3. Diagram of Relationship Between Watershed and Groundwater Basin

The primary groundwater discharge components for the Basin are:

- ▼ Agricultural pumping (average 68% for 1981-2011),
- ▼ Municipal pumping (11% for 1981-2011),
- ▼ Private Domestic pumping (3% for 1981-2011),
- ▼ Small commercial pumping (2% for 1981-2011),
- ▼ Evapotranspiration (ET) by riparian vegetation (3% for 1981-2011),
- ▼ Groundwater discharge to rivers (12% for 1981-2011) and
- ▼ Subsurface outflow (1% for 1981-2011).

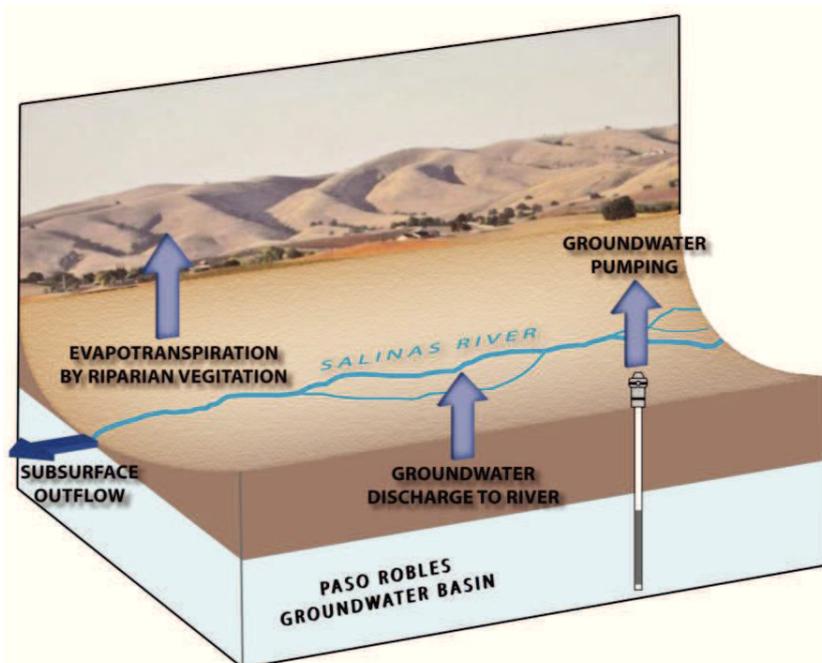


Figure ES-4. Primary Discharge Components for the Paso Robles Groundwater Basin

Of the discharge components, agricultural pumping accounts for the major portion (averaging about 68% over the model study period). Agricultural pumping is not metered and thus was subject to detailed analysis. As described in this report, this included development of crop-specific daily soil moisture water balances accounting for soil available water capacity, daily rainfall and reference evapotranspiration, crop water coefficient, bare soil evaporation, and increasing irrigation efficiency over time. Annual crop acreages estimated from Department of Water Resources (DWR) land use maps, digital San Luis Obispo County crop coverage maps for 2000 through 2011, and digital coverage of Monterey County 2012 crops. Crop acreages within groundwater basin boundaries from 2000 to 2010 were corrected/verified based on review of historical aerial photography.

Given the rapid increase in vineyards to dominate irrigated acreage (vineyards are more than 80% of

irrigated acreage in the Basin), considerable attention was given to factors in vineyard water demand such as frost protection, reduced deficit irrigation (RDI) management, and increasing use of RDI management over time.

A relatively small but increasing discharge component is rural domestic pumping. This was a subject of concern because it is largely unmetered. Because meter data are lacking, previous studies (including the Phase I Study) relied on application of an assumed water demand factor of 1.7 AFY per dwelling unit (DU). The 2012 MWP also assumed a single water demand factor, in this case, 1.0 AFY/DU. This was significantly smaller and highlighted the uncertainty. Moreover, rural residences are quite variable—ranging from modest farmsteads to landscaped estates—suggesting that the variability of associated water demand was not evaluated adequately, particularly with regard to the extent of irrigated landscaping.

This concern was addressed in a special survey for this Basin Model Update and in a parallel survey for the concurrent Salt Nutrient Management Plan. The SNMP investigation focused on a San Luis Obispo County land use category termed *farmstead*, examined 59 farmsteads across the groundwater basin, and measured the landscaped areas, which averaged 0.13 acres per farmstead. For this Basin Model Update, a slightly different survey was performed focusing on five rural residential areas across the basin. The average landscape area was determined, resulting in a representative value is 0.13 acres per parcel, which happens to be the same value as that derived from the SNMP survey. Accordingly, both studies showed that rural residents irrigate a limited and fairly uniform acreage. For this study, available rural water demand information was used to estimate water demand per rural residential at 0.75 AFY/dwelling unit. This is a reasonable estimate of rural domestic use based on actual data. Of this amount, an average 38% is used indoors and can be assumed to return to the basin through onsite septic systems. An average of 62% is used outdoors and can be assumed consumed or lost to ET.

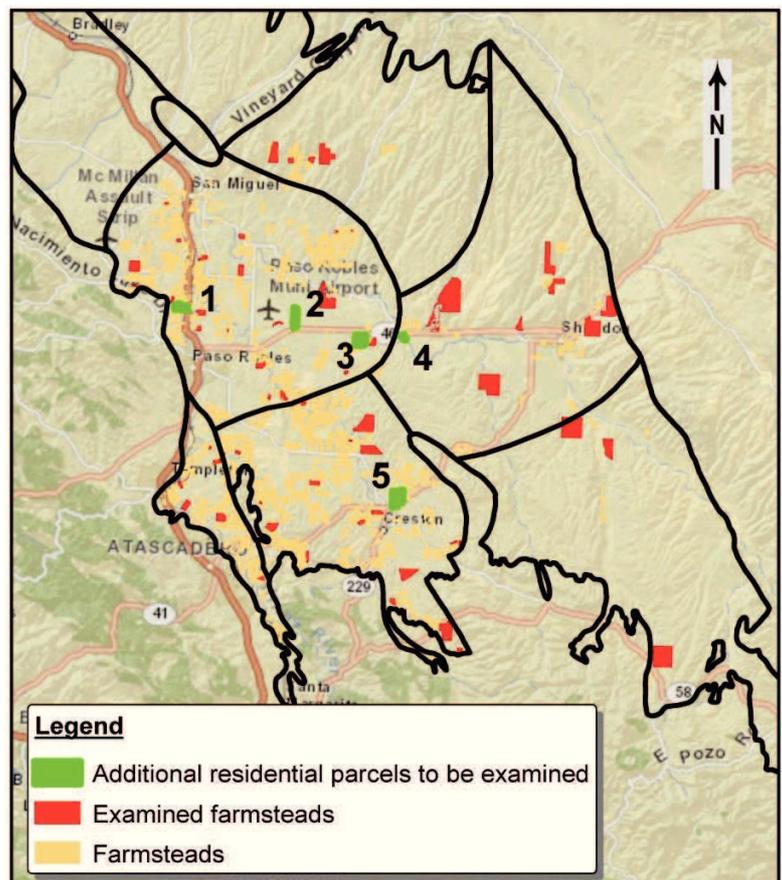


Figure ES-5. Locations of Landscaped Areas Used for Special Surveys

1.3 Hydraulic Separation of Atascadero Sub-Basin

The geologic conceptual model developed during the Phase I Study (Fugro and Cleath, 2002) defined the boundaries and hydrogeologic layers within the Basin, and identified the Atascadero Sub-Basin as a sub-basin with partial hydraulic separation across the Rinconada Fault from the remainder of the Basin⁵. An attempt to reevaluate the degree of separation was made for this Basin Model Update through review of post-2007 background reports and documents, driller's logs and well construction information, historic groundwater elevations, and historic groundwater pumping for wells located in the area of the reevaluation. Results of the reevaluation revealed there is a lack of wells and respective data within close proximity to the Rinconada Fault to adequately determine the degree of separation. Accordingly, the barrier conductivity values that were established by the Phase I Study were maintained for this Basin Model Update.

1.4 Basin Model Update

The original Basin Model was calibrated for water years 1981 through 1997 with a semiannual stress period. This update extended the model period to water year 2011, and replaced the recharge and discharge terms using the updated water balance analysis. This report provides details on the modeling software (MODFLOW packages) used to handle the estimated Basin inflows and outflows. The model domain, cell size and aquifer layering were unchanged from the original model. The updated Basin Model was run successfully with semiannual stress periods and evaluated in terms of its ability to produce simulated groundwater level trends that match observed trends; this evaluation triggered a recalibration of the model to improve its accuracy. Recalibration involved adjustments (using professional judgment and staying within reasonable bounds) to aquifer properties, and inflow and outflow terms. The recalibrated Basin Model is able (within industry standards) to simulate observed changes in groundwater levels that are driven by hydrological and groundwater pumping fluctuations.

Based on results of the recalibration run, model-generated total annual inflow for 1981-2011 ranged from 24,700 AF to 384,300 AF with an annual average of 108,400 AFY. Total annual outflow calculated by the updated Basin Model ranged from 84,400 AF to 142,160 AF with an annual average of 110,800 AF over the period 1981-2011. Applying the equation for change in groundwater storage (inflow minus outflow), the average annual change in groundwater storage for 1981-2011 is approximately -2,400 AFY.

⁵ Except for any separation of the Atascadero Sub-Basin, the Basin is considered to be an interconnected groundwater basin.

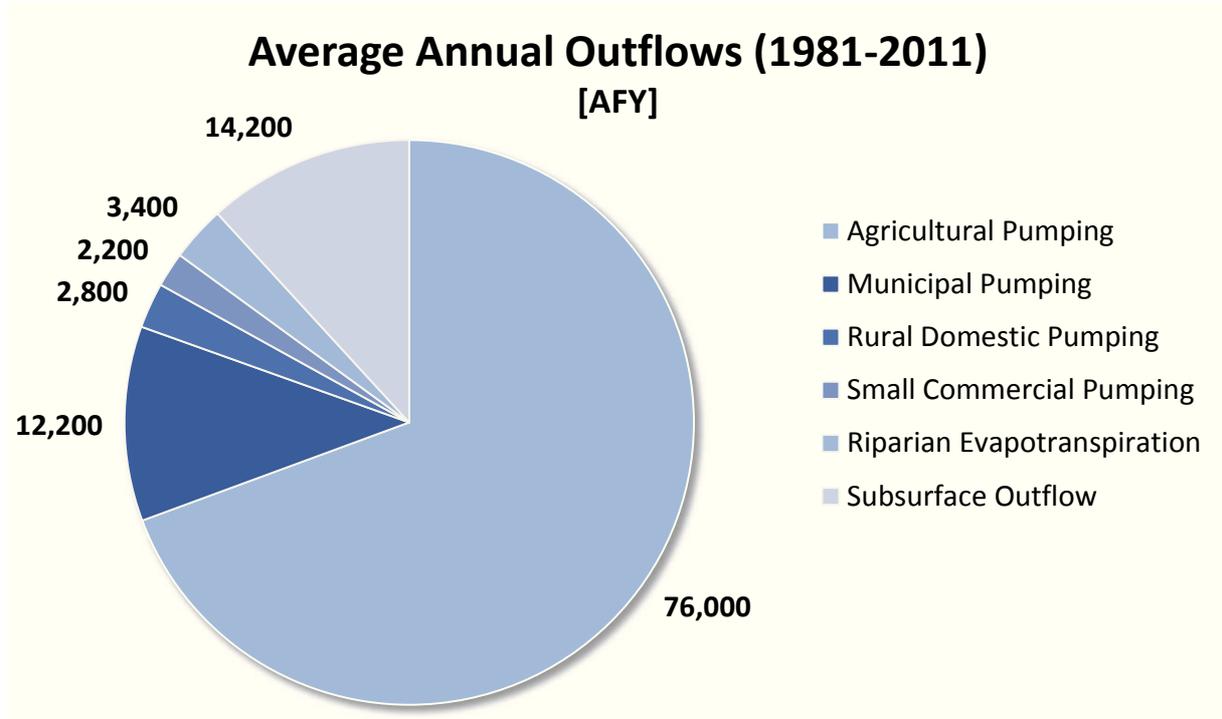
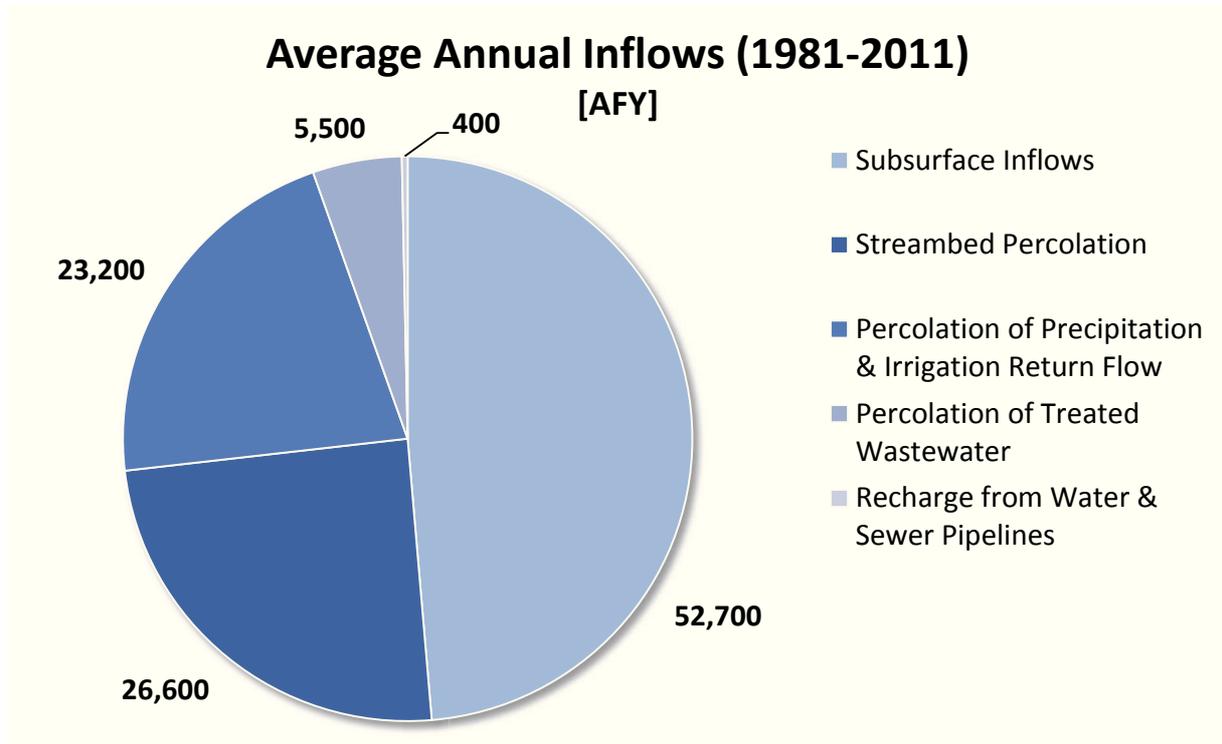


Figure ES-6. Average Annual Inflows and Outflows for the Paso Robles Groundwater Basin

Sensitivity analysis was performed on the recalibrated Basin Model in order to assess the model input parameters that have the greatest effects on the model's simulation results. The sensitivity analysis indicates that the Basin Model is most sensitive to changes to groundwater pumping and recharge from streambed percolation.

1.5 Perennial Yield Estimate

The maximum quantity of water that is available from a groundwater basin on a perennial basis is limited by the possible harmful side effects that can be caused by both pumping and operation of wells within the basin. The perennial yield, for purposes of this report is defined as:

$$\text{Perennial Yield} = \text{Groundwater Pumping} \pm \text{Change in Storage}$$

For the purposes of discussing perennial yield, the base period 1982 to 2010 covers wet, dry and average hydrologic cycles for the groundwater basin. The updated estimate for the perennial yield of the Basin based on that base period is 89,700 AFY.

1.6 Groundwater Model Predictive Scenarios

Two predictive scenarios were examined using the updated and recalibrated Basin Model to evaluate how groundwater levels and storage respond to varying groundwater pumping and recharge conditions. The variables included water demand and the amount of Nacimiento Water Project delivery. The model runs were simulated for a period of 29 years (water years 2012-2040) with a semiannual stress period. For the two scenarios, the hydrologic conditions (e.g., rainfall) that occurred during the hydrologic base period (the 29 years from October 1981 through September 2010) were simply repeated for 29 years into the future (i.e., 2012-2040). The hydrologic base period represents "wet", "dry" and "average" rainfall cycles which are characteristic of the Basin area.

Model Run 1, Baseline⁶ with No Growth, was developed to determine the response of the Basin to continuation of 2011 Nacimiento Water Project delivery, 2011 water demands, and no growth projected 29 years into the future (2012-2040). Accordingly, actual 2011 Nacimiento deliveries were used as input for every year. For water demands, 2011 values were repeated every year for 29 years with no growth.

Model Run 2, Baseline with Growth, examined the response of the Basin to Nacimiento Water Project deliveries projected to occur after September 2011, projected water demands, and a growth rate of 1% per year projected 29 years into the future⁷. Accordingly, Model Run 2 used actual Nacimiento

⁶ The baseline is representative of Basin conditions in water year 2011.

⁷ The projected 1% growth does not take into account the urgency ordinance (No. 3246) on new or expanded development of groundwater supplies in the Paso Robles Basin area.



deliveries for 2012-13 and those forecast for 2014-2040. For agricultural water demand, the 2011 acreages for all non-vineyard crops (e.g., alfalfa, etc.) were kept steady into the future; this is reasonable given relatively flat historical trends. For vineyards in 2012, the actual 2012 vineyard acreages were applied directly. For future years, forecasts developed by the modeling subcommittee for vineyards to be planted by July 2013, 2014, and 2017 were combined with the 2012 vineyard coverage to develop complete vineyard coverages from 2013 through 2017. Thereafter, a 1% growth rate in vineyard acreage was assumed from 2018 to 2040, with the growth applied spatially over the 2017 vineyard coverage. A 1% annual increase was also applied to municipal, private domestic and small commercial pumping.

Modeling results for Model Runs 1 and 2 are described in this report in terms of average annual water budgets, groundwater basin storage by year, and changes in groundwater levels. As shown in Table ES-1 below, total outflow would exceed total inflow on average 5,592 AFY and 26,159 AFY under the No Growth and Growth scenarios, respectively.

Table ES-1. Summary of Average Annual Water Budgets for Model Run 1 (No Growth) and Model Run 2 (Growth)

| Flux Terms | | Unit | Model Run 1 | Model Run 2 |
|--|--|------------|-----------------------|-----------------------|
| Inflow | Deep Percolation of Direct Precipitation and Return Flow from Applied Irrigation Water | AFY | 22,311 | 24,916 |
| | Deep Percolation of Streambed Seepage | AFY | 27,938 | 27,537 |
| | Subsurface Inflow | AFY | 47,612 | 37,590 |
| | Nacimiento Reservoir Water Project Supplies | AFY | 139 | 5,451 |
| | Deep Percolation of Discharged Treated Wastewater Effluent | AFY | 6,789 | 7,909 |
| | Deep Percolation of Urban Water and Sewer Pipe Leakage | AFY | 398 | 464 |
| | <u>Average Annual Total Inflow</u> | AFY | <u>105,187</u> | <u>103,867</u> |
| Outflow | Groundwater Pumping | AFY | 95,749 | 110,742 |
| | Evapotranspiration by Riparian Vegetation | AFY | 3,453 | 3,453 |
| | Groundwater Discharge to Rivers | AFY | 10,133 | 11,937 |
| | Subsurface Outflow | AFY | 1,444 | 1,447 |
| | <u>Average Annual Total Outflow</u> | AFY | <u>110,779</u> | <u>130,027</u> |
| Average Annual Change in Groundwater Storage (Total Inflow – Total Outflow) | | AF | -5,592 | -26,159 |
| Cumulative Changes in Groundwater Storage Over the 29-Year Modeling Period | | AF | -162,163 | -758,621 |

Figure ES-7 shows that at the end of the model simulation in WY 2040, the cumulative change in groundwater storage would be a decline of 162,163 acre-ft for the no growth scenario and a decline of 606,102 acre-ft for the growth scenario.

Figure ES-7. Predicted Annual and Cumulative Change in Storage for Paso Robles Groundwater Basin Model Runs 1 and 2 (Water Years 2012-2040)

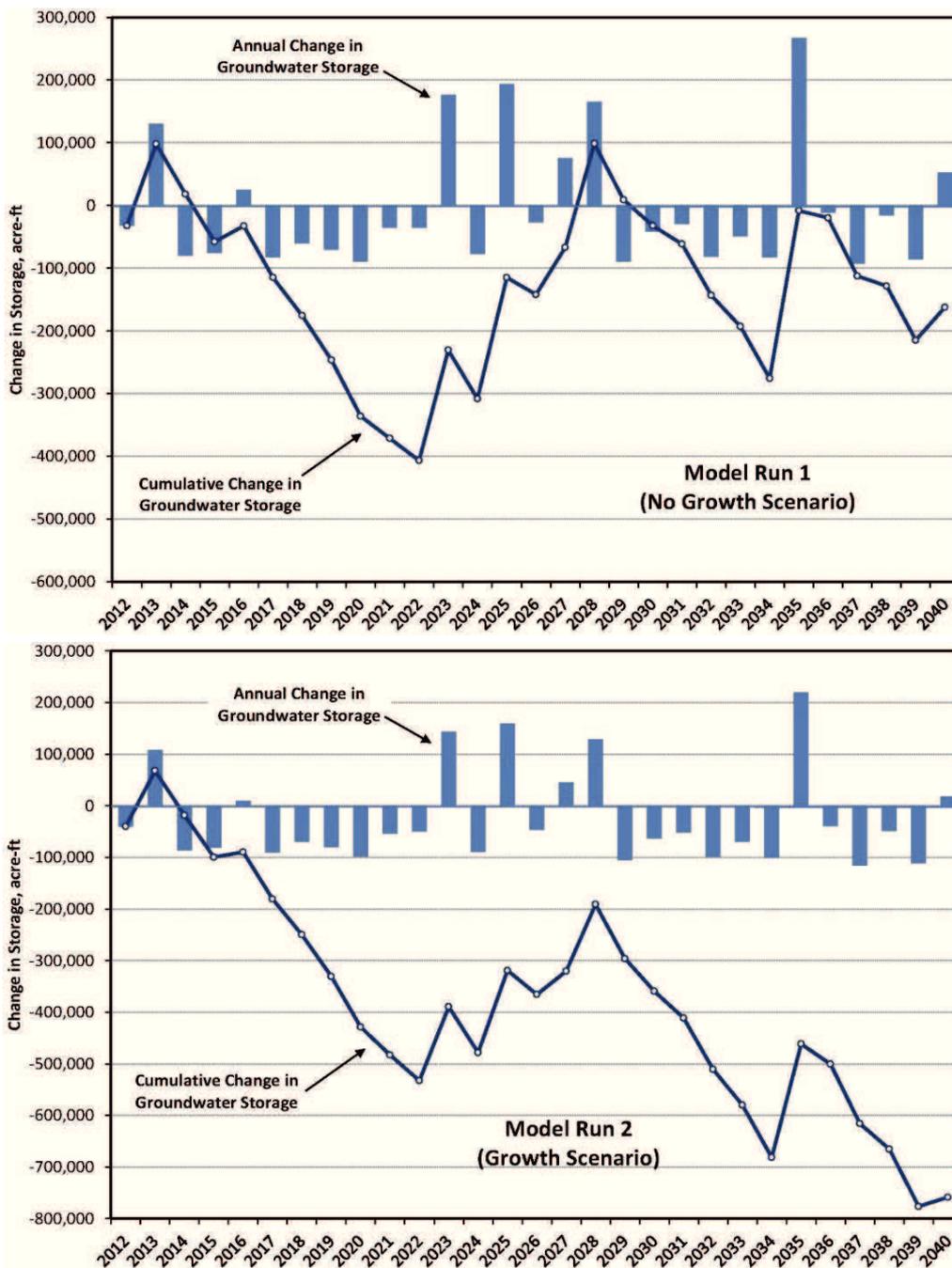
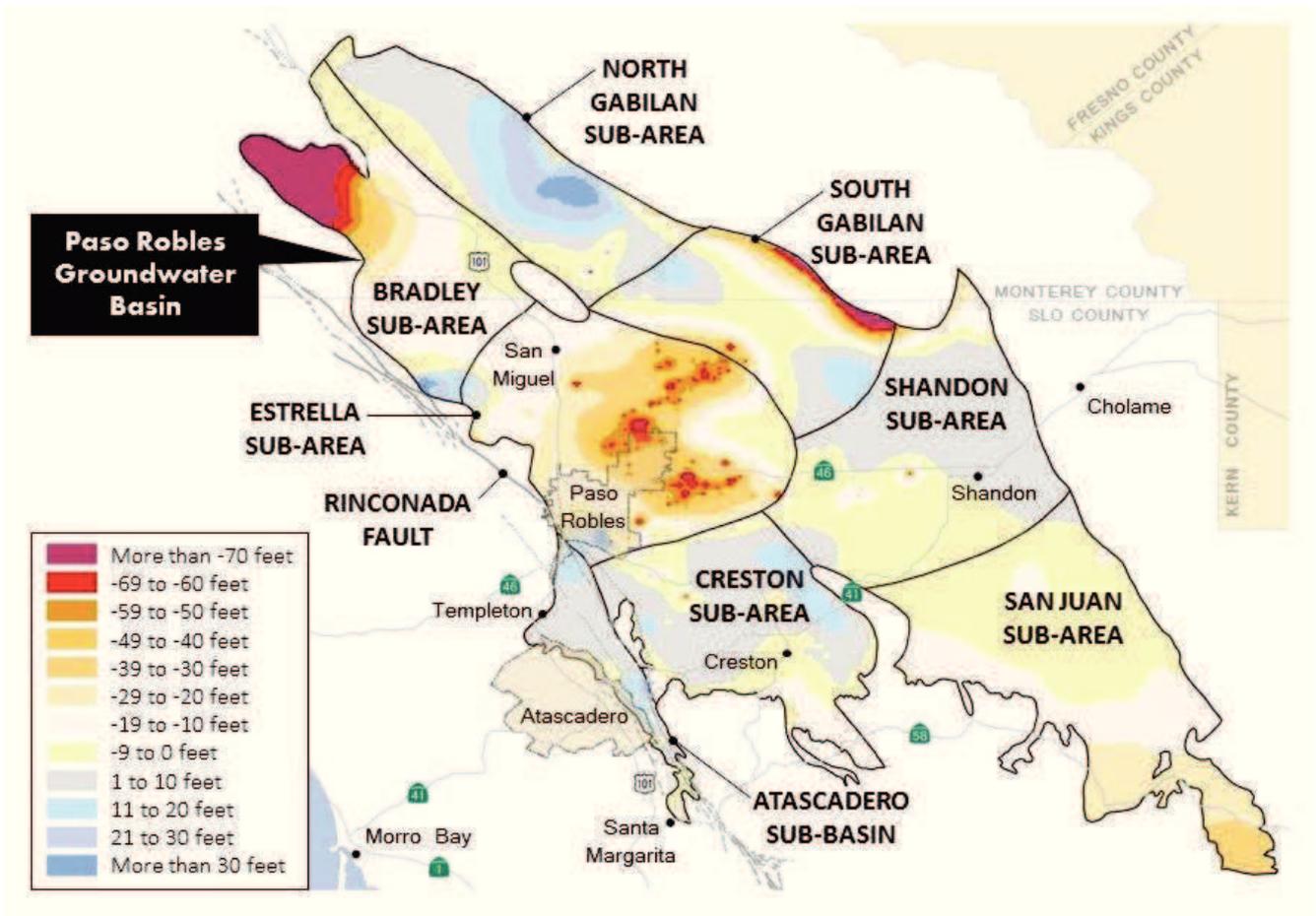


Figure ES-8 below shows that under the Model Run 1 (No Growth scenario) conditions, groundwater levels would decline more than 70 feet in the northern portion of the Bradley Sub-Area, along the eastern boundary of the South Gabilan Sub-Area, and within the central portion of the Estrella Sub-Area.

Figure ES-8. Change in Layer 4 Groundwater Elevations (2012-2040) – Model Run 1

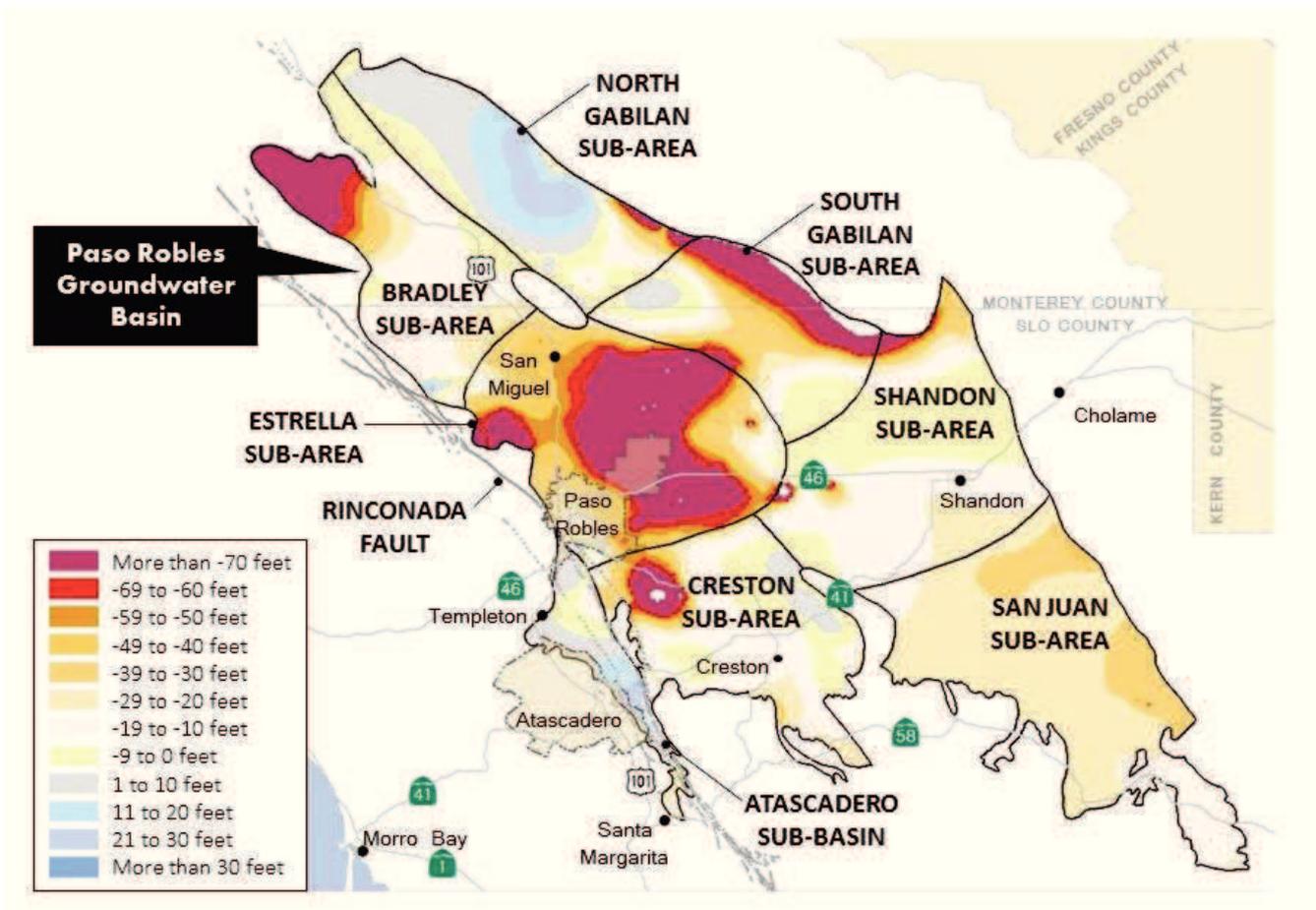


Note: Change in groundwater elevations were also generated for model layers 1-3 for Model Run 1 and Model Run 2 conditions. Results provided in Figures ES-8 and ES-9 are for model layer 4, where changes in groundwater elevations are predicted to be highest under the no growth and growth scenarios.



Figure ES-9 below shows that under Model Run 2 (Growth scenario) conditions, the area of groundwater level declines in excess of 70 feet are more pronounced in the South Gabilan and Estrella Sub-Areas, and includes a significant area in the northwestern portion of the Creston Sub-Area.

Figure ES-9. Change in Layer 4 Groundwater Elevations (2012-2040) – Model Run 2



1.7 Model Limitations and Uncertainty

The Basin Model is a useful tool for evaluating the effects on Basin water levels due to changing hydrological and land use changes. Nonetheless, it is a simplified approximation of a complex hydrogeologic system and has been designed with built-in assumptions. To address such uncertainty, the Basin Model Update was evaluated independently through a peer review provided by Fugro Consultants. Discussion among GEOSCIENCE, Todd Groundwater and Fugro representatives focused on issues including certain aquifer properties, and the relative amounts and areal distribution of subsurface inflow, streambed percolation and rainfall recharge.



1.8 Recommendations

Based on the post-review discussion by GEOSCIENCE, Todd Groundwater and Fugro, specific tasks have been defined to reevaluate and further refine the Basin Model. These include the following:

- Reevaluate fate and recharge mechanisms of water from the watershed entering the groundwater basin;
- Replace the recharge/streamflow modeling package used to simulate streamflow and groundwater discharges to rivers with a streamflow routing package;
- Reevaluate deep percolation of direct precipitation and agricultural return flows in the groundwater basin; and
- Establish an acceptable range of hydraulic conductivity values for the groundwater basin.

In addition, the following scenarios have been identified for potential simulation with the refined Basin Model:

Baseline

- Updated Baseline with Growth Run

Specific Action Analyses

- Analysis 1 – Demand Reduction Scenario
- Analysis 2 – Salinas River Recharge
- Analysis 3 – Offset Basin Pumping with Recycled Water

Basin Management Objectives Analyses

- Analysis 4 – Offset Water Demand in Estrella Sub-Area
- Analysis 5 – Additional Releases to Huer Huero Creek
- Analysis 6 – Additional Releases to Estrella Creek
- Analysis 7 – Offset Pumping in Creston Sub-Area with Supplemental Water
- Analysis 8 – Offset Pumping in Shandon Sub-Area with Supplemental Water

Refinement of the Basin Model will provide improved understanding and simulation of the groundwater-surface water relationship and response to recharge and discharge components as they vary through time. Also, these proposed predictive analyses using the refined Basin Model will provide Basin managers and stakeholders the means to identify the actions which may be most effective at stabilizing groundwater levels on a sub-regional level.



P.O. Box 220, Claremont, CA 91711 | P: 909.451.6650 | F. 909.451.6638 | www.gssiwater.com

In association with:

Todd Groundwater

2490 Mariner Square Loop, Suite 215, Alameda, CA 94501 | P: 510.747.6920 | F. 510.747.6921 | www.toddgroundwater.com

Item No. 31
Meeting Date: February 24, 2015
Presented by: Sue Luft
Rec'd prior to meeting & posted to web on: February 23, 2015



Fw: A G Offset Program

Vicki Shelby to: cr_board_clerk Clerk Recorder

02/23/2015 09:04 AM

Vicki M. (Shelby) Fogleman
Legislative Assistant for
First District Supervisor Frank R. Mecham
1055 Monterey St., D430
San Luis Obispo CA 93408
(805) 781-4491/FAX (805) 781-1350

email: vshelby@co.slo.ca.us

"Thinking a smile all the time will keep your face youthful" - Frank G. Burgess
"Wrinkles should merely indicate where smiles have been" - Mark Twain

----- Forwarded by Vicki Shelby/BOS/COSLO on 02/23/2015 09:04 AM -----

From: Mike Tannler <mtannler@att.net>
To: "vshelby@co.slo.ca.us" <vshelby@co.slo.ca.us>, "darnold@co.slo.ca.us" <darnold@co.slo.ca.us>
Date: 02/20/2015 01:04 PM
Subject: A G Offset Program

I am opposed to the A G Offset Program. Vote No.

Thank you.

S.C. Tannler
Morro Bay



Fw: one to one offset

Vicki Shelby to: cr_board_clerk Clerk Recorder

02/23/2015 09:23 AM

Vicki M. (Shelby) Fogleman
Legislative Assistant for
First District Supervisor Frank R. Mecham
1055 Monterey St., D430
San Luis Obispo CA 93408
(805) 781-4491/FAX (805) 781-1350

email: vshelby@co.slo.ca.us

"Thinking a smile all the time will keep your face youthful" - Frank G. Burgess
"Wrinkles should merely indicate where smiles have been" - Mark Twain

----- Forwarded by Vicki Shelby/BOS/COSLO on 02/23/2015 09:23 AM -----

From: Laura Mordaunt <laura@mordaunt.org>
To: Frank Mecham <fmecham@co.slo.ca.us>
Cc: vshelby@co.slo.ca.us
Date: 02/20/2015 04:01 PM
Subject: one to one offset

Supervisor Mecham,

The one to one offset is a bad idea.
Please vote no on Tuesday next or any Tuesday in the future.

Respectfully

Laura Mordaunt



To: cr_board_clerk Clerk Recorder/ClerkRec/COSLO@Wings,
Cc:
Bcc:
Subject: Fw: Two Very Important Subjects
From: Cytasha Campa/BOS/COSLO - Monday 02/23/2015 11:10 AM

Kindest regards,

Cytasha Campa

Secretary to the Board of Supervisors

San Luis Obispo County

805-781-4335

----- Forwarded by Cytasha Campa/BOS/COSLO on 02/23/2015 11:10 AM -----

From: Debbie Arnold/BOS/COSLO
To: Cytasha Campa/BOS/COSLO@Wings,
Date: 02/23/2015 11:04 AM
Subject: Fw: Two Very Important Subjects
Sent by: Jennifer Caffee

Debbie Arnold

Supervisor, 5th District
San Luis Obispo County
(805) 781-4339

----- Forwarded by Jennifer Caffee/BOS/COSLO on 02/23/2015 11:04 AM -----

From: Joe Dervin <mattie2007@att.net>
To: fmecham@co.slo.ca.us, bgibson@co.slo.ca.us, ahill@co.slo.ca.us, lcompton@co.slo.ca.us, darnold@co.slo.ca.us
Date: 02/08/2015 05:40 PM
Subject: Two Very Important Subjects

Dear SLO County Supervisors,

I am writing to petition your support for two extremely important initiatives that have the potential of affecting every citizen of our County.

1. I was floored to learn that your recent vote will allow the moratorium on increased water use, without offsetting reduction, to expire this August. I strongly urge you to renew the moratorium for another two or three years. BTW, I do agree that a permanent ban, with no "sunset" clause, was a bad idea.
2. I urge you to read the following article, before ever even considering any application for gas or oil well fracking in our County.

It's truly a frightening situation:

<http://inewsnetwork.org/2015/02/03/a-ruptured-pipeline-sends-millions-of-gallons-of-wastewater-into-n-d-creek/>

Very Sincerely,

Joe Dervin

Atascadero



Fw: Vote No/Ag Offset Program
Vicki Shelby to: cr_board_clerk Clerk Recorder

02/23/2015 09:42 AM

Vicki M. (Shelby) Fogleman
Legislative Assistant for
First District Supervisor Frank R. Mecham
1055 Monterey St., D430
San Luis Obispo CA 93408
(805) 781-4491/FAX (805) 781-1350

email: vshelby@co.slo.ca.us

"Thinking a smile all the time will keep your face youthful" - Frank G. Burgess
"Wrinkles should merely indicate where smiles have been" - Mark Twain

----- Forwarded by Vicki Shelby/BOS/COSLO on 02/23/2015 09:42 AM -----

From: ahseastrand@aol.com
To: fmecham@co.slo.ca.us
Cc: vshelby@co.slo.ca.us, ahseastrand@aol.com
Date: 02/22/2015 10:54 PM
Subject: Vote No/Ag Offset Program

Good evening Supervisor Mecham,
Please oppose the ag offset program! Please vote no!
Thank you.
Andrea Seastrand

Andrea Seastrand
ahseastrand@aol.com



To: cr_board_clerk Clerk Recorder/ClerkRec/COSLO@Wings,
Cc:
Bcc:
Subject: Fw: Water
From: Cytasha Campa/BOS/COSLO - Monday 02/23/2015 11:10 AM

Kindest regards,

Cytasha Campa

Secretary to the Board of Supervisors

San Luis Obispo County

805-781-4335

----- Forwarded by Cytasha Campa/BOS/COSLO on 02/23/2015 11:10 AM -----

From: Debbie Arnold/BOS/COSLO
To: Cytasha Campa/BOS/COSLO@Wings,
Date: 02/23/2015 11:00 AM
Subject: Fw: Water
Sent by: Jennifer Caffee

Debbie Arnold

Supervisor, 5th District
San Luis Obispo County
(805) 781-4339

----- Forwarded by Jennifer Caffee/BOS/COSLO on 02/23/2015 11:00 AM -----

From: David Gaskill <agdaveandanita@msn.com>
To: "fmecham@co.slo.ca.us" <fmecham@co.slo.ca.us>, "bgibson@co.slo.ca.us" <bgibson@co.slo.ca.us>, "ahill@co.slo.ca.us" <ahill@co.slo.ca.us>, "lcompton@co.slo.ca.us" <lcompton@co.slo.ca.us>, "darnold@co.slo.ca.us" <darnold@co.slo.ca.us>
Date: 02/13/2015 04:41 PM
Subject: Water

Please extend the temporary emergency ordinance to help manage our water in the Paso Robles basin.

We need to keep this in place until a water management district is formed .

My family is conserving water like many others: not letting the water run for showers, washing hands, dishes, etc.

Showers consist of getting wet, turning off the water, washing and shampooing, turn on the water and rinse.

We water our plants with water saved in a bucket from the bath water getting hot . We don't flush after every

bathroom visit. Anything we can think of to save water. Some friends have given up on their grassy yards.

Everyone I talk to is trying very hard to save water .

We need to work on replenishing the aquifer , and to do that we need to stop taking so

much water from
the aquifer. No more planting, or well drilling.

We do not want to run out of water, please do what you can to prevent this.

Thank you
Anita and David Gaskill
Paso Robles,CA



To: cr_board_clerk Clerk Recorder/ClerkRec/COSLO@Wings,
Cc:
Bcc:
Subject: Fw: Water conservation
From: Debbie Arnold/BOS/COSLO - Monday 02/23/2015 10:50 AM
Sent Jennifer Caffee/BOS/COSLO
by:

Debbie Arnold
Supervisor, 5th District
San Luis Obispo County
(805) 781-4339

----- Forwarded by Jennifer Caffee/BOS/COSLO on 02/23/2015 10:50 AM -----

From: William Grove <wmgrove@me.com>
To: "darnold@co.slo.ca.us" <darnold@co.slo.ca.us>
Date: 02/23/2015 09:02 AM
Subject: Water conservation

Please keep mandatory water conservation offset program. I am homeowner with 5 acres & I don't want to lose my rights, but I do not trust that people will do the "right" thing. I think their are those who will plant, drill & build because its their right. So make this program temporary, when we are past the drought it can be changed. That being said, we live in a desert climate & all need to be aware of water for our future. We should not be planting crops that need more water than our climate can handle. With our population growth there needs to be more conservation, not less.
Thank you,
Susan

Sent from my iPad



To: Frank Mecham/BOS/COSLO@wings.co.slo.ca.us,
Cc: cr_board_clerk Clerk Recorder/ClerkRec/COSLO@Wings,
Bcc:
Subject: Fw: water offset plan
From: Vicki Shelby/BOS/COSLO - Monday 02/23/2015 09:41 AM

Vicki M. (Shelby) Fogleman
Legislative Assistant for
First District Supervisor Frank R. Mecham
1055 Monterey St., D430
San Luis Obispo CA 93408
(805) 781-4491/FAX (805) 781-1350

email: vshelby@co.slo.ca.us

"Thinking a smile all the time will keep your face youthful" - Frank G. Burgess
"Wrinkles should merely indicate where smiles have been" - Mark Twain

----- Forwarded by Vicki Shelby/BOS/COSLO on 02/23/2015 09:41 AM -----

From: marcia rice <riceatpaso@msn.com>
To: "vshelby@co.slo.ca.us" <vshelby@co.slo.ca.us>
Date: 02/22/2015 09:52 AM
Subject: water offset plan

Dear Supervisor Mecham

We had 0.05 inches of rain this morning. The drought continues in its severity. Some climatic research indicates long periods of drought will become the "new normal" for California. It is essential to shepherd every drop of water we have.

To let the emergency ordinance lapse, even for one day, will result in a water rush which will come to haunt us all.

Please vote for the extension. Let's try to manage this situation before it creates a desert here.

Marcia Rice
San Miguel



Fw: water Situation
Cytasha Campa to: cr_board_clerk Clerk Recorder

02/23/2015 11:10 AM

Kindest regards,

Cytasha Campa

Secretary to the Board of Supervisors

San Luis Obispo County

805-781-4335

----- Forwarded by Cytasha Campa/BOS/COSLO on 02/23/2015 11:10 AM -----

From: Debbie Arnold/BOS/COSLO
To: Cytasha Campa/BOS/COSLO@Wings,
Date: 02/23/2015 11:02 AM
Subject: Fw: water Situation
Sent by: Jennifer Caffee

Debbie Arnold
Supervisor, 5th District
San Luis Obispo County
(805) 781-4339

----- Forwarded by Jennifer Caffee/BOS/COSLO on 02/23/2015 11:02 AM -----

From: "oneeticket@juno.com" <oneeticket@juno.com>
To: ahill@co.slo.ca.us
Cc: bgibson@co.slo.ca.us, darnold@co.slo.ca.us, fmecham@co.slo.c.us, lcompton@co.slo.ca.us
Date: 02/15/2015 11:13 AM
Subject: water Situation

Dear County Supervisors,

We are unable to attend the meeting on Tuesday, but urge you to consider extending the Emergency Ordinance with a time limit to protect the ground water basin until a solution can be found to manage it. sincerely
Lee and Diane Osborn.

How Old Men Tighten Skin

63 Year Old Man Shares DIY Skin Tightening Method You Can Do From Home
healthylivinglifeguide.com



To: cr_board_clerk Clerk Recorder/ClerkRec/COSLO@Wings,
Cc:
Bcc:
Subject: Fw: water
From: Vicki Shelby/BOS/COSLO - Monday 02/23/2015 09:45 AM

Vicki M. (Shelby) Fogleman
Legislative Assistant for
First District Supervisor Frank R. Mecham
1055 Monterey St., D430
San Luis Obispo CA 93408
(805) 781-4491/FAX (805) 781-1350

email: vshelby@co.slo.ca.us

"Thinking a smile all the time will keep your face youthful" - Frank G. Burgess
"Wrinkles should merely indicate where smiles have been" - Mark Twain

----- Forwarded by Vicki Shelby/BOS/COSLO on 02/23/2015 09:45 AM -----

From: marcia rice <riceatpaso@msn.com>
To: "vshelby@co.slo.ca.us" <vshelby@co.slo.ca.us>, "bgibson@co.slo.ca.us" <bgibson@co.slo.ca.us>, "ahill@co.slo.ca.us" <ahill@co.slo.ca.us>, "jbrennan@co.slo.ca.us" <jbrennan@co.slo.ca.us>
Date: 02/22/2015 05:04 PM
Subject: RE: water

From: riceatpaso@msn.com
To: vshelby@co.slo.ca.us; bgibson@co.slo.ca.us; ahill@co.slo.ca.us; jbrennan@co.slo.ca.us
Subject: water
Date: Mon, 23 Feb 2015 01:03:31 +0000

Lady and Gentlemen,

We are still in the drought with, according to long-term forecasts, several more dry years ahead. Why would extending the moratorium even be questioned? I know there are many who poo-poo these concerns; alas they ignore recent history.

When my wife and I purchased our property here in 1994, the population of Paso Robles was around 15,000 and

probably 1/4 the number of wineries in the area. How so called rational people can demand their water rights

without considering the population and winery growth combined with the obvious drought is incomprehensible.

Well, in the western tradition, remember whiskey is for drinking and water is for fighting: please fight for intelligent, long-term interests of the area and extend the moratorium this Tuesday .

Sincerely,

Wayne H. Rice
Lieutenant Colonel, USMC (ret)



Fw: paso Basin moritorium

Frank Mecham to: cr_board_clerk Clerk Recorder
Sent by: **Vicki Shelby**

02/23/2015 11:56 AM

Frank R. Mecham
District 1 Supervisor
1055 Monterey St. Rm. D430
San Luis Obispo, CA 93408
(805) 781-5450

FMecham@co.slo.ca.us

----- Forwarded by Vicki Shelby/BOS/COSLO on 02/23/2015 11:55 AM -----

From: GWTracy@aol.com
To: fmecham@co.slo.ca.us
Date: 02/22/2015 10:39 AM
Subject: paso Basin moritorium

Dear Frank,

I am enclosing a letter in support of a continuation of the moratorium on increased water use in the Paso Robles water basin. I hope the board of Supervisors can pass the plan soon. Thanks for listening.

Yours,

George W Tracy
2370 Bald Eagle



San Miguel, CA 93451 Tracy Family letter 2-22-15.docx

TRACY FAMILY

February 23, 2015

Frank R Mecham
Board of Supervisors
San Luis Obispo County
1055 Monterey Street
San Luis Obispo, CA 93408

Dear Frank,

RE Paso Robles Water Basin

I am writing to you and the other members of the board to express my hope that the supervisors will support the favorable treatment of the moratorium on increased pumping of water from the Paso Robles groundwater basin. The current urgency ordinance will expire in August. Your support of the urgency ordinance was critical in passing the ordinance 18 months ago. Until such time as there is established a water oversight agency to monitor the water extraction in the basin you alone have the responsibility and the authority to help us save our wells and our property values.

Our water has been severely impacted by the current over drafted situation in the Paso Robles Basin. Our well was established in 1997. Our water table at that time was 142 feet below the surface. The owner of the property had the foresight to establish a well that was 650 feet deep. He set the well pump at 252 feet. In 2010 we ran out of water. Awalt of San Miguel dropped our pump to 520 feet deep. After spending almost \$6,000 we had water again. As of February 1, 2015 the water table in our well is at -284 feet. A friend in the Jardine area has a level of -220 feet. Their well is only 250 feet deep. I pray that they will not have to go to a water trucking situation. They live on modest income and drilling a new well would be a significant expense for them.

The urgency has not passed. The falling water table is still marching on. We fear that if the urgency ordinance is not extended the water table will continue to fall faster until more wells go dry. Many of my neighbors are fearful that they will exhaust their well capacity if unlimited pumping is allowed once again. Please pass the ordinance. It is a means to prevent more impact to home owners that may not have the means to drill a new well or drop well pumps.

Sincerely,

George W. Tracy

San Miguel, CA 93451

E-Mail: GWTRACY@AOL.com



Fw: Water Offset Program

Cytasha Campa to: cr_board_clerk Clerk Recorder

02/23/2015 02:08 PM

Kindest regards,

Cytasha Campa

Secretary to the Board of Supervisors

San Luis Obispo County

805-781-4335

----- Forwarded by Cytasha Campa/BOS/COSLO on 02/23/2015 02:08 PM -----

From: Debbie Arnold/BOS/COSLO
To: Cytasha Campa/BOS/COSLO@Wings,
Date: 02/23/2015 02:04 PM
Subject: Fw: Water Offset Program
Sent by: Jennifer Caffee

Debbie Arnold

Supervisor, 5th District
San Luis Obispo County
(805) 781-4339

----- Forwarded by Jennifer Caffee/BOS/COSLO on 02/23/2015 02:04 PM -----

From: Michelle DAntonio <hershey53@att.net>
To: Frank Mecham <fmecham@co.slo.ca.us>, Bruce Gibson <bgibson@co.slo.ca.us>, Adam Hill <ahill@co.slo.ca.us>, Debbie Arnold <darnold@co.slo.ca.us>
Date: 02/23/2015 11:37 AM
Subject: Water Offset Program

February 23, 2015

San Luis Obispo Board of Supervisors

We are residents overlying the Paso Robles Groundwater Basin who are not in favor of moving forward to develop a County Wide Ag Offset Program. We feel this is a Cap and Trade program, like carbon units and does nothing to fix troubled areas!

Our concern is that only large, corporate ag will be able to afford the water credit program, the very people we are fighting on water exports and this program will establish land use regulations that may result in the denial of a landowner overlying the

Agenda Item No: 31 • Meeting Date: February 24, 2015
Presented By: Nick and Michelle D'Antonio
Rec'd prior to the meeting & posted on: February 23, 2015

PRGWB to draw water for new agricultural production or any modifications to a home or building a home.

We feel a thorough legal review of the interactions between land use regulatory authority and water rights for overlying landowners is recommended should an extension of this program be considered.

Thank you for your time.

Sincerely,
Nick and Michelle D'Antonio

Paso Robles, CA 93446



Fw: No/Ag Offset

Debbie Arnold to: cr_board_clerk Clerk Recorder
Sent by: **Jennifer Caffee**

02/23/2015 01:58 PM

Debbie Arnold

Supervisor, 5th District
San Luis Obispo County
(805) 781-4339

----- Forwarded by Jennifer Caffee/BOS/COSLO on 02/23/2015 01:58 PM -----

From: ahseastrand@aol.com
To: darnold@co.slo.ca.us
Cc: district5@co.slo.ca.us, ahseastrand@aol.com
Date: 02/22/2015 10:50 PM
Subject: No/Ag Offset

Dear Supervisor Arnold,
Please continue your opposition to the ag offset program! Just vote no again!
Thank you.
Andrea Seastrand

Andrea Seastrand
ahseastrand@aol.com



Fw: One to one offset
Cytasha Campa to: cr_board_clerk Clerk Recorder

02/23/2015 01:45 PM

Kindest regards,

Cytasha Campa

Secretary to the Board of Supervisors

San Luis Obispo County

805-781-4335

----- Forwarded by Cytasha Campa/BOS/COSLO on 02/23/2015 01:45 PM -----

From: Debbie Arnold/BOS/COSLO
To: Cytasha Campa/BOS/COSLO@Wings,
Date: 02/23/2015 01:44 PM
Subject: Fw: One to one offset
Sent by: Jennifer Caffee

Debbie Arnold
Supervisor, 5th District
San Luis Obispo County
(805) 781-4339

----- Forwarded by Jennifer Caffee/BOS/COSLO on 02/23/2015 01:44 PM -----

From: Gary Kirkland <gary.l.kirkland@gmail.com>
To: fmecham@co.slo.ca.us
Cc: bgibson@co.slo.ca.us, ahill@co.slo.ca.us, Lynn Compton <lcomptom@co.slo.ca.us>, darnold@co.slo.ca.us
Date: 02/20/2015 10:10 AM
Subject: One to one offset

Dear Supervisor:

Thank you for your service. I am opposed to the one to one offset for water conservation. Please vote no on this item. When government officials no longer trust citizens to do what is right without government coercion these government officials resort to tyranny. Please trust us to do what is right.

Sincerely,
Gary L. Kirkland
gary.l.kirkland@gmail.com



Fw: One to One offset

Debbie Arnold to: cr_board_clerk Clerk Recorder
Sent by: **Jennifer Caffee**

02/23/2015 01:34 PM

Debbie Arnold

Supervisor, 5th District
San Luis Obispo County
(805) 781-4339

----- Forwarded by Jennifer Caffee/BOS/COSLO on 02/23/2015 01:34 PM -----

From: Laura Mordaunt <laura@mordaunt.org>
To: Debbie Arnold <darnold@co.slo.ca.us>
Date: 02/20/2015 04:04 PM
Subject: One to One offset

Supervisor Arnold,

The one to one offset is a bad idea.
Please vote no on Tuesday next or any Tuesday in the future.

Respectfully

Laura Mordaunt



Fw: I am opposed to the AG water offset program .
Cytasha Campa to: cr_board_clerk Clerk Recorder

02/23/2015 01:33 PM

Kindest regards,

Cytasha Campa

Secretary to the Board of Supervisors

San Luis Obispo County

805-781-4335

----- Forwarded by Cytasha Campa/BOS/COSLO on 02/23/2015 01:33 PM -----

From: Debbie Arnold/BOS/COSLO
To: Cytasha Campa/BOS/COSLO@Wings,
Date: 02/23/2015 01:27 PM
Subject: Fw: I am opposed to the AG water offset program.
Sent by: Jennifer Caffee

Debbie Arnold
Supervisor, 5th District
San Luis Obispo County
(805) 781-4339

----- Forwarded by Jennifer Caffee/BOS/COSLO on 02/23/2015 01:26 PM -----

From: Dawn Wright <dcwright1889@hotmail.com>
To: "fmecham@co.slo.ca.us" <fmecham@co.slo.ca.us>, "vshelby@co.slo.ca.us" <vshelby@co.slo.ca.us>, "bgibson@co.slo.ca.us" <bgibson@co.slo.ca.us>, "ahill@co.slo.ca.us" <ahill@co.slo.ca.us>, "lcompton@co.slo.ca.us" <lcompton@co.slo.ca.us>, "jbrennan@co.slo.ca.us" <jbrennan@co.slo.ca.us>, "darnold@co.slo.ca.us" <darnold@co.slo.ca.us>
Date: 02/20/2015 04:37 PM
Subject: I am opposed to the AG water offset program.

Once such a program is implemented, it is impossible to undo. Remember, drought & flood are part of the natural cycle of water in California. Don't be fooled by short-sighted programs that attempt to resolve water issues without a comprehensive view of the long-term ecological impacts of water cycles. Too many programs create more problems than they solve and too many over-zealous and under-educated people want to "fix" nature and the environment - without the comprehensive understanding that it takes to make effective, safe and productive long-term ecological decisions. Please do not pass this program at this time. Please put water planning efforts into long-term - and difficult, less immediately gratifying, but more successful - comprehensive ecological solutions.

Dawn Wright
30 yrs + resident of Los Osos, CA



Fw: Raso Robles Water Basin ...Do the RIGHT thing.
Cytasha Campa to: cr_board_clerk Clerk Recorder

02/23/2015 01:11 PM

Kindest regards,

Cytasha Campa

Secretary to the Board of Supervisors

San Luis Obispo County

805-781-4335

----- Forwarded by Cytasha Campa/BOS/COSLO on 02/23/2015 01:11 PM -----

From: Debbie Arnold/BOS/COSLO
To: Cytasha Campa/BOS/COSLO@Wings,
Date: 02/23/2015 01:06 PM
Subject: Fw: Raso Robles Water Basin...Do the RIGHT thing.
Sent by: Jennifer Caffee

Debbie Arnold
Supervisor, 5th District
San Luis Obispo County
(805) 781-4339

----- Forwarded by Jennifer Caffee/BOS/COSLO on 02/23/2015 01:06 PM -----

From: LJTORNUQUIST@aol.com
To: fmecham@co.slo.ca.us, bgibson@co.slo.ca.us, ahill@co.slo.ca.us, darnold@co.slo.ca.us,
lcompton@co.slo.ca.us
Date: 02/22/2015 03:30 PM
Subject: Raso Robles Water Basin...Do the RIGHT thing.

We will be unable to attend the Board of Supervisor's meeting on Feb. 24th ...but we would like our voices to be heard.

"Thank you" Frank Mecham for your role in revisiting the emergency water rule.

Our water resources are limited and we are begging you to protect rural residents as well as our current local businesses. Our well levels are still declining and we still need an "emergency ordinance" in place.

If the emergency ordinance is lifted, before a district is in place, developers will seize this opportunity for growth with little or no regards for homeowners whose wells are already being threatened. Even under the current local and state water restrictions, we continue to witness the endorsement of new hotels, new housing developments and new vineyards. Where will the extra water supply come from to support these additions to our communities?

We need to maintain limited pumping from an already strained basin without a "time limit" since there are just too many uncertainties. It's hard enough to watch the water level in our well fluctuate by 30 feet every time Fiji Water's vineyards pump water into their above ground

Agenda Item No: 31 • Meeting Date: February 24, 2015
Presented By: Lyle & Janet Tornquist
Rec'd prior to the meeting & posted on: February 23, 2015

reservoirs.

There must be reasonable limits on pumping. Too many lives would be jeopardize by removing equitable limits on pumping from an already dwindling water basin.

Respectfully,
Lyle & Janet Tornquist

El Pomar, Templeton



Fw: Proposed Groundwater Regulations will adversely affect all residents

Cytasha Campa to: cr_board_clerk Clerk Recorder

02/23/2015 01:10 PM

Kindest regards,

Cytasha Campa

Secretary to the Board of Supervisors

San Luis Obispo County

805-781-4335

----- Forwarded by Cytasha Campa/BOS/COSLO on 02/23/2015 01:10 PM -----

From: Debbie Arnold/BOS/COSLO
To: Cytasha Campa/BOS/COSLO@Wings,
Date: 02/23/2015 01:06 PM
Subject: Fw: Proposed Groundwater Regulations will adversely affect all residents
Sent by: Jennifer Caffee

Debbie Arnold
Supervisor, 5th District
San Luis Obispo County
(805) 781-4339

----- Forwarded by Jennifer Caffee/BOS/COSLO on 02/23/2015 01:06 PM -----

From: Larry McGourty <larry@mcgourty.com>
To: darnold@co.slo.ca.us, lcompton@co.slo.ca.us, fmecham@co.slo.ca.us, bgibson@co.slo.ca.us, ahill@co.slo.ca.us
Date: 02/22/2015 05:22 PM
Subject: Proposed Groundwater Regulations will adversely affect all residents

Dear Supervisors,

The permanent water offsets and groundwater basin regulation proposals coming before the Board of Supervisors will devastate agriculture as we know it in San Luis Obispo County.

Small family farms are not large water users or wasters. Through Farmer Markets, Farm to Table programs, and sales to local supermarkets, they are a vital resource to our county by growing safe, fresh, and high quality food for the residents of our urban communities. In a time of civil unrest overseas and labor disputes threatening the overseas food supply chain, the Board of Supervisors should be doing all it can to encourage more local food production. The proposed water offset program does exactly the opposite.

If you want to discourage something, first step is to regulate it. The offset regulation freezes Ag lands in farmable areas -i.e. the groundwater basins of our county, to what exists now. This is an insane policy, wasteful of a precious resource.

Agenda Item No: 31 • Meeting Date: February 24, 2015
Presented By: Larry and Susan McGourty
Rec'd prior to the meeting & posted on: February 23, 2015

Because of the prohibition of putting additional Ag land into production and a limited number of offsets available, competition will be fierce with an inevitable rise in offset costs. The cost of purchasing an offset will be prohibitive to a small start up produce farmer and hinder an established farmer who needs to rotate his crops to match seasonal and public demand. Only the large vineyards with deep pockets will be able to purchase offsets, further increasing the large irrigated vineyard monoculture, the cause of most of our local water problems to begin with.

The Board of Supervisors claim they must do the offset program to be compliant with the Pavley-Dickenson Sustainable Groundwater Management Act (SGMA). Fine, we all agree that encouraging sustainable practices is a good thing and is in everyone's best interest, but it can be done in a way compliant with SGMA and not devastate local agriculture. Please reconsider this poorly thought out approach and take more time to study the proposal to insure it does not hurt both the small family farms who feed our county and the families they help feed.

Residential users who extract less than 3% of the total groundwater are not the cause of local groundwater problems and don't need heavy handed regulation. Please adopt the Pavley Dickenson exclusion for di minimis users, that is water users who extract less than 2 acre feet of water per year for domestic purposes. It's already in the law and is fully compliant with SGMA.

Sincerely,

Larry and Susan McGourty
Residents of the 5th District



Fw: Interim Management of the Paso Basin
Cytasha Campa to: cr_board_clerk Clerk Recorder

02/23/2015 01:10 PM

Kindest regards,

Cytasha Campa

Secretary to the Board of Supervisors

San Luis Obispo County

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From: Debbie Arnold/BOS/COSLO
To: Cytasha Campa/BOS/COSLO@Wings,
Date: 02/23/2015 01:06 PM
Subject: Fw: Interim Management of the Paso Basin
Sent by: Jennifer Caffee

Debbie Arnold
Supervisor, 5th District
San Luis Obispo County
(805) 781-4339

----- Forwarded by Jennifer Caffee/BOS/COSLO on 02/23/2015 01:06 PM -----

From: "Mark McCullough" <mmcclla@gmail.com>
To: <fmecham@co.slo.ca.us>
Cc: <bgibson@co.slo.ca.us>, <ahill@co.slo.ca.us>, <lcompton@co.slo.ca.us>, <darnold@co.slo.ca.us>
Date: 02/22/2015 09:11 AM
Subject: Interim Management of the Paso Basin

Dear Mr. Mecham,

As a citizen of the El Pomar area I count on you to protect my rights as an individual property owner. I and many people like me just want to live, go to work and raise our families without the threat of our well's going dry. We don't have a lot of money for politics, we don't belong to a lobbying group and we don't come to meetings and scream about our rights. But we are still here and need to have our rights protected.

I respectfully ask you to change your vote and do the right thing and protect the aquifer until which time as it needs no further protection.

Thank-you,

Mark McCullough

Agenda Item No: 31 • Meeting Date: February 24, 2015
Presented By: Mark McCullough
Rec'd prior to the meeting & posted on: February 23, 2015



Fw: Interim Management of the Paso Robles Groundwater Basin

Cytasha Campa to: cr_board_clerk Clerk Recorder

02/23/2015 01:10 PM

Kindest regards,

Cytasha Campa

Secretary to the Board of Supervisors

San Luis Obispo County

805-781-4335

----- Forwarded by Cytasha Campa/BOS/COSLO on 02/23/2015 01:10 PM -----

From: Debbie Arnold/BOS/COSLO
To: Cytasha Campa/BOS/COSLO@Wings,
Date: 02/23/2015 01:07 PM
Subject: Fw: Interim Management of the Paso Robles Groundwater Basin
Sent by: Jennifer Caffee

Debbie Arnold
Supervisor, 5th District
San Luis Obispo County
(805) 781-4339

----- Forwarded by Jennifer Caffee/BOS/COSLO on 02/23/2015 01:07 PM -----

From: "Wayne Snowbarger" <regrabwons2@gmail.com>
To: "Frank Mecham" <fmecham@co.slo.ca.us>, "Bruce Gibson" <bgibson@co.slo.ca.us>, "Adam Hill" <ahill@co.slo.ca.us>, "Debbie Arnold" <darnold@co.slo.ca.us>, <lcompton@co.slo.ca.us>
Date: 02/21/2015 08:41 AM
Subject: Interim Management of the Paso Robles Groundwater Basin

Until work is completed to establish a locally-controlled public water district to manage and balance the basin, current restrictions on the use of water created by the urgency ordinance must remain in place. I urge you to pass a new ordinance for Responsible Interim Management of the Basin until a locally-controlled public water district is in place or a Groundwater Sustainability Plan is in place. Without interim management of the basin, all efforts over the past two years will be lost with a surge of new water users creating even more overdraft than is now occurring. Any new ordinance adopted needs to include water neutrality for new users and include the provisions of the current Urgency Ordinance. In addition, allow no new vested rights. Allowing unlimited pumping to resume in the Paso Robles basin will only make it harder to balance the basin as will be required by the state's new groundwater legislation.

Sincerely

Wayne Snowbarger

Paso Robles, CA 93446



To: cr_board_clerk Clerk Recorder/ClerkRec/COSLO@Wings,
Cc:
Bcc:
Subject: Fw: AG WATER OFFSET PROGRAM
From: Cytasha Campa/BOS/COSLO - Monday 02/23/2015 01:10 PM

Kindest regards,

Cytasha Campa

Secretary to the Board of Supervisors

San Luis Obispo County

805-781-4335

----- Forwarded by Cytasha Campa/BOS/COSLO on 02/23/2015 01:10 PM -----

From: Debbie Arnold/BOS/COSLO
To: Cytasha Campa/BOS/COSLO@Wings,
Date: 02/23/2015 01:08 PM
Subject: Fw: AG WATER OFFSET PROGRAM
Sent by: Jennifer Caffee

Looks like this was sent to all Sups. We received several copies of the same email.

Debbie Arnold
Supervisor, 5th District
San Luis Obispo County
(805) 781-4339

----- Forwarded by Jennifer Caffee/BOS/COSLO on 02/23/2015 01:08 PM -----

From: "O'Blenis" <oblenis@earthlink.net>
To: <bgibson@co.slo.ca.us>
Cc: <darnold@co.slo.ca.us>
Date: 02/20/2015 06:04 PM
Subject: AG WATER OFFSET PROGRAM

**I am a county resident and I AM OPPOSED TO THE AG OFFSET PROGRAM.
VOTE NO!**

Thank You



Fw: AG Water Offset Program
Cytasha Campa to: cr_board_clerk Clerk Recorder

02/23/2015 01:10 PM

Kindest regards,

Cytasha Campa

Secretary to the Board of Supervisors

San Luis Obispo County

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----- Forwarded by Cytasha Campa/BOS/COSLO on 02/23/2015 01:10 PM -----

From: Debbie Arnold/BOS/COSLO
To: Cytasha Campa/BOS/COSLO@Wings,
Date: 02/23/2015 01:09 PM
Subject: Fw: AG Water Offset Program
Sent by: Jennifer Caffee

Also rec'd several copies of this email to all Sups.

Debbie Arnold
Supervisor, 5th District
San Luis Obispo County
(805) 781-4339

----- Forwarded by Jennifer Caffee/BOS/COSLO on 02/23/2015 01:09 PM -----

From: Penny Webster <badpeny49@hotmail.com>
To: "lcompton@co.slo.ca.us" <lcompton@co.slo.ca.us>
Cc: darnold@co.slo.ca.us
Date: 02/20/2015 05:31 PM
Subject: AG Water Offset Program

Dear Supervisor Compton,
I am opposed to the AG Water Offset Program...VOTE NO!
Thank you.

Respectfully,
Penny Webster

Creston, CA 93432

Sent from my iPad



Fw: Water for Residents

Debbie Arnold to: cr_board_clerk Clerk Recorder
Sent by: **Jennifer Caffee**

02/23/2015 01:07 PM

Debbie Arnold

Supervisor, 5th District
San Luis Obispo County
(805) 781-4339

----- Forwarded by Jennifer Caffee/BOS/COSLO on 02/23/2015 01:07 PM -----

From: Milagro <velasco_m@sbcglobal.net>
To: "darnold@co.slo.ca.us" <darnold@co.slo.ca.us>
Date: 02/20/2015 09:43 PM
Subject: Water for Residents

Debbie,
Listen to Pro Water Equity. They make sense. We need to think about the residents not the businesses that will just write off their losses when there isn't enough water for their grapes. Residents can't do that. We will lose our life's work, our homes, and our stability. You need to care about people not the big bucks. Come on, do the right thing.

Signed,
A very concerned and frustrated rural resident.
Milagro Velasco

Sent from Milagro's iPhone