

**AGRICULTURAL WATER MANAGEMENT PLAN
2016**

Prepared Pursuant to Water Code Section 10826

**RECLAMATION DISTRICT No. 2035
45332 COUNTY ROAD 25
WOODLAND CA 95776**

June 30, 2016

Prepared by



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Section I: Introduction

Reclamation District No. 2035 (District) has prepared this Agricultural Water Management Plan (AWMP) to comply with both the requirements of SBx7-7, and with Governor Brown's Executive Order B-29-15 (April 1, 2015). The District received grant funds from the Department of Water Resources (DWR) under Proposition 50 to develop this AWMP, which describes water use within the District specifically for the period of 2013 through 2015 as required by the Executive Order.

As background, the District was formed on April 8, 1919, in order to provide flood control, drainage, and irrigation for lands within its boundaries. Relative to irrigation, the District operates and maintains a diversion facility at the Sacramento River for the conveyance of surface water to lands within the District. The District operates and maintains some of the conveyance facilities in order to deliver water to the landowners. The property within the District is owned by four landowners, the largest of which is Conaway Preservation Group, LLC (CPG). The landowners also own and operate groundwater wells in order to supplement the available surface water supplies. At times, the quantities of groundwater pumped are conveyed through the District's facilities for delivery to the landowners. During the three-year period covered by this AWMP, the District did not deliver water to lands outside of CPG's property. Therefore, the information contained in this AWMP addresses water use within CPG, and future updates to this AWMP will describe water use on property within the District held by other landowners, as necessary.

A. Description of Previous Water Management Activities

The District has developed and implemented numerous water management practices and projects. Listed below are examples of water management activities the District has undertaken.

Assembly Bill 3030 / Groundwater Management Plan

In April 1995, the District adopted a Groundwater Management Plan (West Yost, 1995). The April 1995 Groundwater Management Plan (GWMP) was prepared pursuant to Assembly Bill 3030 (AB 3030) as a comprehensive plan to provide a framework for the protection and utilization of the aquifer system underlying the District. Approximately every two to three years, an update to the GWMP was prepared in accordance with the guidelines of AB 3030 and the annual reporting goals of the GWMP.

Groundwater Monitoring

In accordance with the GWMP, groundwater levels are monitored at the groundwater wells located inside the District's boundaries. Beginning in 2012, supplemental monitoring has been conducted at groundwater wells inside the District as part of participation in short-term water transfers, which are identified in other sections of this AWMP. Semiannual groundwater levels of select wells are uploaded to the DWR's California Statewide Groundwater Elevation Monitoring (CASGEM) database, in

coordination with the Yolo County Water Resources Informational Database (WRID), and the Yolo County Flood Control and Water Conservation District (YCFCWCD).

Conjunctive Use

Due to the physical delivery constraints, and limitations for surface water diversions during the period of July through September, the District exercises a conjunctive use program of surface water and groundwater supply delivery. The conjunctive use program is coordinated with landowners within the District in order to assist in optimizing deliveries of water to efficiently meet irrigation demands, primarily during the three-month period. Groundwater pumping, including the constraints and limitations for surface water deliveries/diversions, are discussed in other sections of this AWMP.

Closed Recirculation System

The water conveyance and drainage system serving the District is a closed system where irrigation drainage is recaptured and then returned to the conveyance system for reuse. The closed system is generally operated from April through September. The capture and reuse of irrigation drainage water reduces the District's surface water and groundwater demand. Water is discharged from the closed system during the fall and late winter/early spring to drain fields for harvest and in preparation for planting of crops for the upcoming irrigation season.

B. Coordination of Activities

1. Notification of AWMP Preparation

Certain Agricultural Water Suppliers are required to prepare an AWMP pursuant to SBx7-7 and the Governor's Executive Order, which requires the supplier to notify each city and county where water is supplied in order to identify that the supplier is preparing, or reviewing, a plan and is considering changes or amendments to the plan. SBx7-7 does not specify how much advance notification to cities and counties is required, and it does not require notification to any other agency to meet compliance. Furthermore, SBx7-7 does not require that comments from any city, county, or other agency be solicited or considered. **Table 1**, shown in Section I.C of this AWMP, identifies the entities notified by the District. A copy of the public notice of the District's intention to review, update, consider changes to its AWMP, and to comply with SBx7-7, is presented in **Appendix A**.

2. Public Participation

Notice of the District's intent to develop its AWMP, and to comply with the provisions of SBx7-7, was published on June 16, 2016 and June 23, 2016, in the *Daily Democrat*. The notice stated that the Draft AWMP was available for public review at the District's office, specified the time and date of the hearing for public comment, and included the intended adoption of the AWMP. A record of the public notification is located in **Appendix B**.

C. AWMP Adoption and Submittal

1. AWMP Adoption

The resolution adopting the AWMP is included in **Appendix C**.

2. AWMP Submittal

The steps followed in a submittal of the AWMP are described in, *A Guidebook to Assist Agricultural Water Suppliers to Prepare a 2015 Agricultural Water Management Plan* (2015 Guidebook), and are outlined in **Table 1**.

3. AWMP Availability

The requirements for the availability of AWMP’s are described in the 2015 Guidebook. **Table 1** summarizes the District’s compliance with notification and availability requirements for its AWMP.

Table 1: Summary of Coordination, Adoption, and Submittal Activities

| Potential Interested Parties | Notified of AWMP Preparation | Notified of Public Hearing and Intention to Adopt | Copy of Adopted AWMP |
|---|------------------------------|---|----------------------------|
| Department of Water Resources | NA | --- | Within 30 days of adoption |
| Yolo County | June 23, 2016 | --- | Within 30 days of adoption |
| Yolo County Flood Control and Water Conservation District | June 23, 2016 | --- | Within 30 days of adoption |
| The California State Library | NA | NA | Within 30 days of adoption |
| Yolo County Water Resources Association | NA | NA | Within 30 days of adoption |
| Local Newspaper: <i>Daily Democrat</i> | NA | June 16, 2016 & June 23, 2016 | NA |

D. AWMP Implementation Schedule

The District has adopted this AWMP in accordance with the provisions in SBx7-7. As identified in this AWMP, the District continues to evaluate the efficient water management plans (EWMPs), including the water measurement and volumetric pricing EWMPs. As identified later in this AWMP, the District implemented several of the EWMPs, and intends to develop additional water management practices to be implemented over the next several years.

Section II: Description of Agricultural Water Supplier and Service Area

A. History

The District was formed on April 8, 1919 in order to provide flood control, drainage, and irrigation for lands within its boundaries. The District’s Board of Trustees, Elmer W. Armfield, B.F. Conaway, and C. Harold Hopkins, solicited Fred H. Tibbetts, a consulting civil engineer located in San Francisco, CA to develop a report for the complete reclamation of the lands within the District, “Report to the Board of Trustees of Reclamation District No. 2035 on a Plan for the Complete Reclamation, Drainage and Irrigation of the Lands within the District with Estimates of Cost”. Tibbett’s report provided extensive detail about the existing conditions within the District as well as conditions of the Sacramento River which affect the reclamation project. The report also describes in detail the flood control, drainage and irrigation systems required for the complete reclamation of these lands. In addition, the report set forth a proposed operation and maintenance procedure along with a cost estimate to implement the entirety of the plan. The District’s Board of Trustees adopted a resolution on June 26, 1920 which directed implementation for the recommendations of the report.

B. Physical Characteristics

1. Size of the Service Area

The District includes approximately 21,008 acres of land inside Yolo County. Beginning in 1990 through 2015, an average of approximately 12,000 acres were irrigated annually within the District’s boundaries, based on available records (**Table 2**).

Table 2: Water Supplier History and Size

| | |
|---|---------------|
| Date of Formation | April 8, 1919 |
| Service Area Gross Acreage | 21,008 |
| Average Annual Irrigated Acreage (1990 – 2015 within CPG) | 12,000 |

2. Location of the Service Area and Water Management Facilities

The District is located near the Sacramento River, east of the cities of Woodland and Davis, and within the eastern portion of Yolo County. **Figure 1** identifies the location of the District. The boundaries of the District are primarily situated between Interstate 5 and Interstate 80, with additional portions of the District covering the Cache Creek Settling Basin and adjacent lands. The eastern portion of the District is located entirely within the Yolo Bypass, which is subject to inundation during wetter hydrologic conditions.

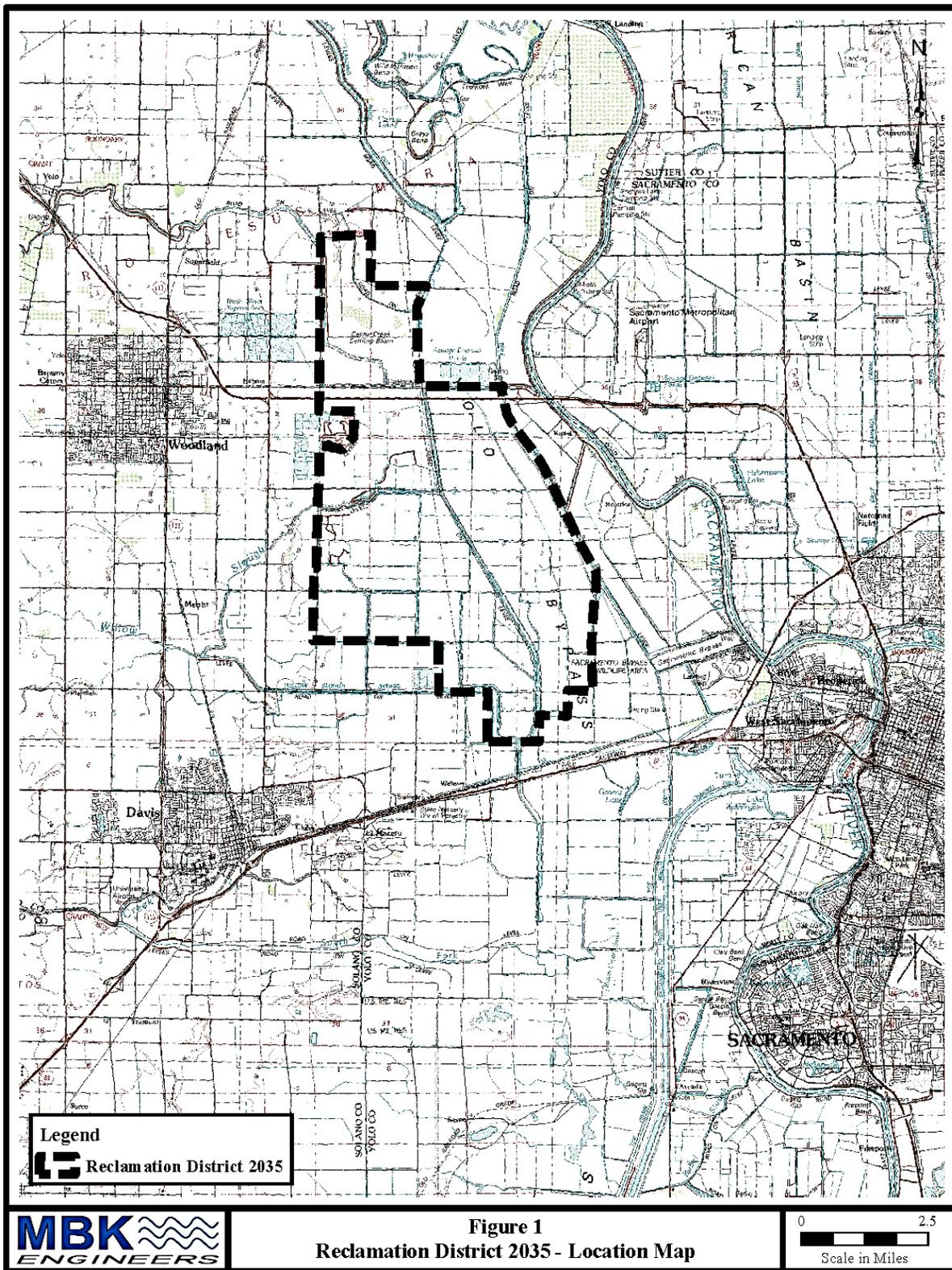


Figure 1. District Location Map

The water distribution system within the District is comprised of approximately 43 miles of unlined canals, laterals, and ditches (**Table 3**).

Table 3: Water Conveyance and Delivery System

| System Used | Number of Miles |
|---------------------------------|-----------------|
| Unlined Canals/Laterals/Ditches | 43 |
| Lined Canals | 0 |
| Pipelines | Minimal |

The District's utilizes a closed water distribution system during the irrigation season to deliver water to the lands inside the District. The main components of the system are the Sacramento River intake facility, cross canal, main canal, western lift station, and regulating reservoir.

The majority of water conveyed throughout the District's system is initially diverted from the Sacramento River at the District's intake facility. A new adjacent fish screen and intake facility is currently under construction, which is a joint project through a partnership between the Woodland-Davis Clean Water Agency (WDCWA) and the District. This intake will replace the District's current intake facility, and is anticipated to be operational beginning in August 2016. The District's pumping capacity at the existing intake facility, as it will be at the new facility, is 400 cubic feet per second. The existing intake facility will be removed upon final completion of the new facility.

The existing and new intake facilities discharge water diverted from the Sacramento River into the cross canal, heading west away from the intake facility. A siphon conveys the water under Tule Canal, County Road 22, and the railroad trestle for continued conveyance within a section of the cross canal. The cross canal continues west and intersects with the beginning of the main canal at the western levee of the Yolo Bypass.

The eastern half of the District (lands to the south of the cross canal and east of the main canal) is irrigated directly from the cross canal and the main canal. The water levels within the cross canal and the main canal are maintained at a higher elevation than the fields on the eastern half of the District in order to provide for deliveries of water by gravity to those lands.

The main canal supplies water to the western lift station and regulating reservoir. The western lift station pumps water up to the regulating reservoir, which was constructed at an elevation higher than the irrigated lands of the western portion of the District. Water is released from the regulating reservoir into lateral canals for delivery to lands located within the western portion of the District.

A map showing the location of the District and major facilities is included as **Figure 1a**.

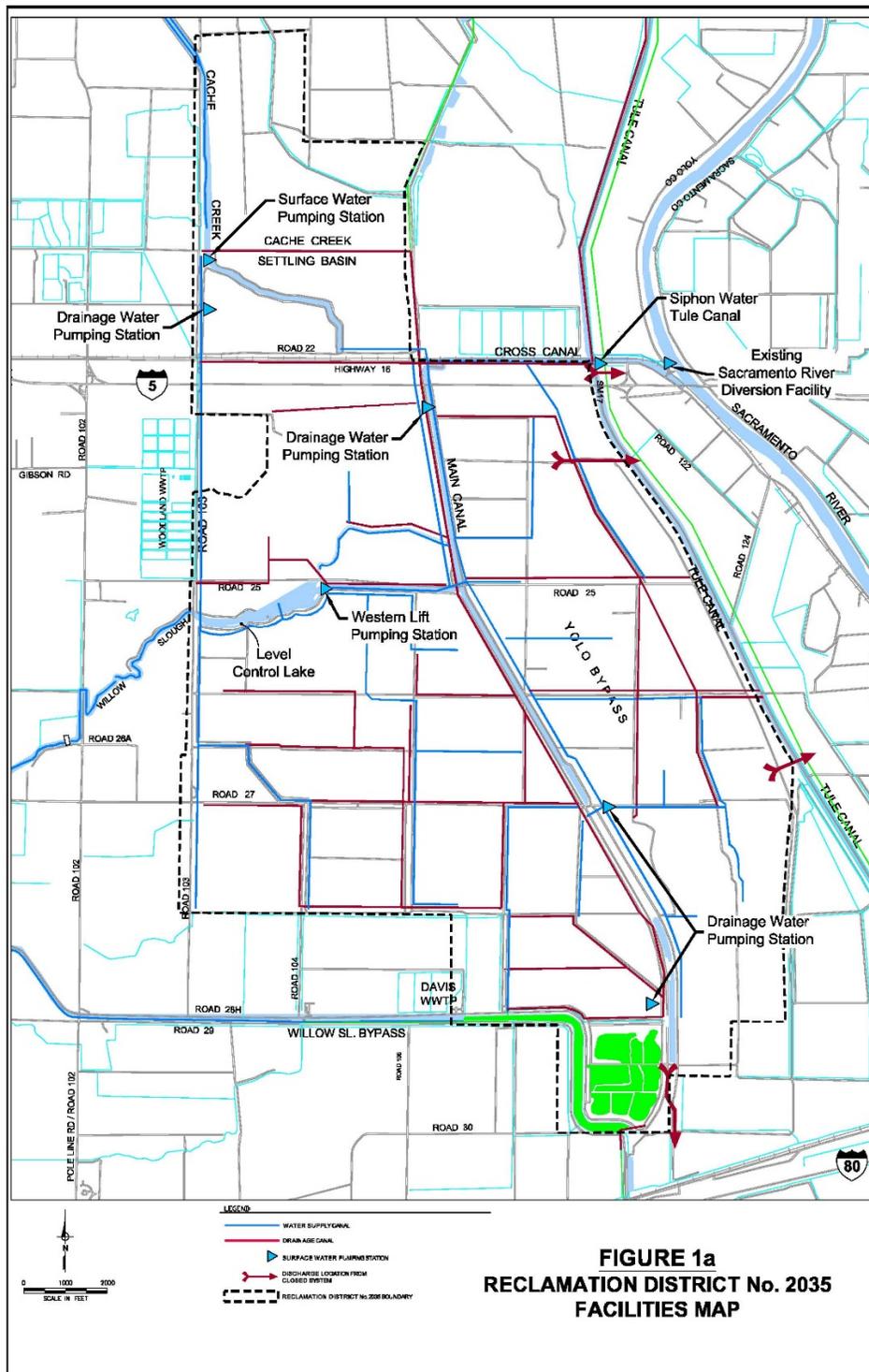


FIGURE 1a
RECLAMATION DISTRICT No. 2035
FACILITIES MAP

Figure 1a. District Service Area and Facilities Map

The District does not possess, operate, or manage any storage reservoirs as part of its water management facilities. However, the District operates a regulating reservoir to maintain water levels for conveyance of water into the western portion of the District. The sources of water within the regulating reservoir include surface water, groundwater, and recaptured drainage water. The regulating reservoir is not intended to serve as a storage reservoir; and thus, is not included as a source for the District's water supply, discussed in other sections of this AWMP.

The District utilizes a closed conveyance and drainage system. All drainage and runoff water from irrigated lands within the District is captured by the District's drainage system, with the exception of approximately 80 acres located within the northeast portion of the District. A central drainage system delivers captured drainage water to several pumping stations located throughout the District. The drainage water is pumped back into the conveyance system, where it may be delivered to lands inside the District. The District may discharge water from the closed system during the fall and late winter and early spring into habitat lands located within the Yolo Bypass or into the Tule Canal to drain fields for harvest and in preparation for the upcoming planting season.

3. Terrain and Soils

Overall, soil within the District is comprised mostly of heavy clays, which requires special management to maximize their productivity. **Figure 2** identifies the soils inside the District based on data from *The Natural Resources Conservation Service (NRCS) 2015 Yolo County Survey*.

The primary soils on the eastern portion of the District in the Yolo Bypass are Clear Lake soils, flooded (Cn), and Sacramento Soils, flooded (Sg).

Clear Lake soils, flooded, have 8-20 inches of overwash material that ranges in texture from sandy loam to silty clay, and in color from light brownish gray to grayish brown. Drainage for these soils is poor and natural fertility is moderately high. The effective rooting depth can be as deep as 60 inches where drainage has been improved.

Sacramento soils, flooded, are characterized by 8-20 inches of gray overwash material that ranges in texture from sandy loam to silty clay. Permeability of these soils is slow, while natural fertility is high. The effective rooting depth is 34-60 inches. The location of these soils in the Yolo Bypass makes them subject to flooding every few years.

The primary soils on the western portion of the Ranch, which is located outside the Yolo Bypass include Clear Lake clay (Ck); Capay silty clay (ca); and Willows clay (Wb).

Clear Lake and Capay silty clays occur in basins. The drainage has been improved by land leveling and open drains. Permeability is slow. Surface runoff is very slow, and the erosion hazard is slight to none. The available water holding capacity is 8-10 inches, and the effective rooting depth is more than 60 inches in areas that have been drained. Natural fertility is high.

Willows clay occurs in basins. This soil has been improved by construction of reclamation structures. The erosion hazard is slight to none. The available water holding capacity is 7-9 inches in areas that

have been drained. The effective rooting depth is from 36 to more than 60 inches, and is restricted by a water table at a depth of 36 to 60 inches. Natural fertility is moderately high, and the soil is affected by alkali.

| Legend | |
|---|---|
|  | Ca - Capay silty clay |
|  | Cc - Capay soils, flooded |
|  | Ch - Clear Lake silty clay loam, drained, 0 to 1 percent slopes, MLRA17 |
|  | Ck - Clear Lake clay, 0 to 1 percent slopes, MLRA 17 |
|  | Cn - Clear Lake soils, flooded |
|  | Lc - Lang sandy loam, deep, flooded |
|  | Lg - Laugenour very fine sandy loam |
|  | Lh - Laugenour very fine sandy loam, flooded |
|  | Lk - Laugenour very fine sandy loam, deep, flooded |
|  | Lm - Loamy alluvial land |
|  | Mb - Maria silt loam |
|  | Mc - Maria silt loam, flooded |
|  | Md - Maria silt loam, deep |
|  | Mf - Marvin silty clay loam |
|  | Mo - Merritt silty clay loam, deep, drained |
|  | Pa - Pescadero silty clay |
|  | Pb - Pescadero silty clay, saline-alkali |
|  | Pc - Pescadero soils, flooded |
|  | Rg - Rincon silty clay loam |
|  | Rh - Riverwash |
|  | Rk - Riz loam |
|  | Rn - Riz loam, flooded |
|  | Sb - Sacramento silty clay loam, drained |
|  | Sd - Sacramento clay, drained |
|  | Sg - Sacramento soils, flooded |
|  | Sn - Soboba gravelly sandy loam |
|  | Sr - Sycamore silt loam, flooded |
|  | Ss - Sycamore silty clay loam |
|  | St - Sycamore silty clay loam, drained |
|  | Sv - Sycamore complex, drained |
|  | Sw - Sycamore complex, flooded |
|  | Te - Tyndall very fine sandy loam, deep |
|  | W - Water |
|  | Wb - Willows clay |
|  | Wc - Willows clay, alkali |
|  | Wd - Willows clay, alkali, drained |
|  | Wg - Willows soils, flooded |

4. Climate

Yolo County has a Mediterranean climate characterized by warm, dry summers and cool, moist winters. Annual rainfall averages over 20 inches in Woodland. Most of the precipitation occurs in December, January, and February, with little-to-no precipitation in July through September. Precipitation and temperature data were obtained from the National Climatic Data Center (NCDC); the information in the tables below includes data from 1991-2014 for the Woodland station located close to the District. Table 4 and Table 5 summarize the average climatic conditions obtained from the Woodland station.

Table 4: Summary of Average Monthly Climate Characteristics, 1991-2014

| Month/Time | Average Precipitation, Inches | Average Mean Temperature, °F | Average Minimum Temperature, °F | Average Maximum Temperature, °F |
|------------|-------------------------------|------------------------------|---------------------------------|---------------------------------|
| January | 3.99 | 47.7 | 39.5 | 55.8 |
| February | 4.12 | 52.0 | 43.0 | 61.0 |
| March | 2.70 | 56.7 | 46.1 | 67.4 |
| April | 1.31 | 61.1 | 48.7 | 73.5 |
| May | 0.69 | 68.1 | 54.4 | 82.3 |
| June | 0.26 | 74.0 | 58.8 | 89.2 |
| July | 0.00 | 77.6 | 60.5 | 94.7 |
| August | 0.06 | 76.7 | 59.2 | 94.1 |
| September | 0.12 | 74.3 | 58.1 | 90.5 |
| October | 0.91 | 65.8 | 52.6 | 79.1 |
| November | 2.01 | 55.0 | 45.0 | 64.9 |
| December | 4.15 | 47.9 | 39.8 | 55.9 |

Table 5: Summary of Average Annual Climate Characteristics, 1991-2014

| Climate Characteristic | Value |
|---------------------------------------|-------------|
| Average Annual Precipitation (inches) | 20.3 inches |
| Annual Minimum Precipitation (inches) | 5.5 inches |
| Annual Maximum Precipitation (inches) | 30.9 inches |
| Average Annual Minimum Temperature | 39.5°F |
| Average Annual Maximum Temperature | 94.7°F |

C. Operational Characteristics

The District is an independent local government agency. The affairs of the District are administered by a Board of Directors. The District employs a General Manager, who reports directly to the Board, as well as a staff to perform the daily operations of the District. All operations and maintenance services are provided by District personnel, including water delivery, construction, and facility/equipment repair and replacement.

1. Operating Rules and Regulations

A landowner within the District, CPG, leases and to individual growers (Tenant). The term of the leases vary from single to multiple years. The lease agreements set forth the cost of leasing land per acre which is dependent upon the crop grown. The leasing cost includes all water deliveries. The District is responsible for operating and maintaining all lateral canals and field ditches located on the leased fields farmed by Tenants. The Tenants, as a condition of the leases, enter into water delivery agreements with the District for delivery of the irrigation water and payment of all charges relating thereto. The District bills Tenants directly for all water delivery charges and said sum is paid by Tenants directly to the District.

The District utilizes an on-demand delivery system for the delivery of water to fields within the District. Generally, growers request the delivery of water to specific fields, and water will be made available to the fields and grower, usually, within a 24-hour time period.

2. Water Delivery Measurements or Calculations

Diversions from the Sacramento River are measured using propeller meters maintained by the U.S. Bureau of Reclamation (USBR). Diversions from Cache Creek, the Yolo Bypass, and Willow Slough are estimated by the District Manager. A majority of the total quantity of groundwater pumping has been measured in recent years, and the balance of groundwater pumping has been estimated using power records and pump efficiency tests.

Field deliveries are unmeasured at this time. For agricultural water suppliers with at least 10,000 acres, and less than 25,000 irrigated acres, including the District, implementation of the Agricultural Water Measurement Regulation for measuring water deliveries is only required if sufficient funding has been provided specifically for that purpose (CCR §597.1 [e]).

3. Water Rate Schedules and Billing

Water charges are based on a water rate analysis performed by a consulting engineer hired by the District. The District's water service charge is comprised of at least two components: a capacity charge and a volumetric rate charge. The capacity charge is calculated using actual operational fixed costs from a specified fiscal year. In addition, the rate also includes charges to create a contingency fund and intake capital replacement fund. The volumetric rate consists of total electrical costs for surface water and groundwater pumping, as well as the annual USBR costs relating to the diversions of surface water, under CPG's Sacramento River Settlement Contract (SSRC), this is discussed in further detail in a later section. The volumetric pricing also depends on the District's established crop duties.

The District bills its growers on a semi-annual basis, with the first installment being due March 25 of each year, and the second installment being due August 20 of each year.

4. Water Shortage Allocation Policies and Detailed Drought Management Plan

Overall, the District has a reliable water supply as described in Section V of this AWMP. Thus, the District has not developed a water shortage allocation policy. However, during drier periods, the District has

and will continue to coordinate with its landowners in order to develop a less water intensive crop plan that aligns with the projected available surface water and groundwater supplies. The crop plan for any specific year is primarily determined by CPG. The annual crop plans include numerous considerations such as crop market conditions, diversion constraints, and groundwater pumping factors. For the reasons described above, the District does not plan to develop a water shortage allocation policy at this time.

Section III: Description of Quantity of Water Uses

Executive Order B-29-15 requires quantification of water demand for 2013, 2014, and 2015 to the extent data is available. The District has elected to use these years for its AWMP Cycle and to report water use and water supply data for 2013 – 2015 in subsequent sections of this AWMP (**Table 6**). The water year types in the Sacramento Region have been classified as “dry” in 2013, and “critical” in 2014 and 2015 based on the Sacramento Valley Water Year Type Index.

Table 6: Plan Cycle Years

| | Description |
|---|--------------------|
| Representative year(s) based upon | 2013 – 2015 |
| First month of representative year | January |
| Last month of representative year | December |

A. Agricultural Water Use

Agricultural lands inside the District are irrigated with a combination of surface water, groundwater, and recirculated tailwater, all supplied through the conveyance system described in this AWMP. **Table 7** identifies the source of water for agricultural use during the irrigation season, which for the purpose of this AWMP usually includes April through September, depending on climatic conditions. Water uses during the remainder of the year are identified in Section III.B of this AWMP.

Table 7: Agricultural Water Use during April through September for 2013– 2015

| Source | 2013 | 2014 | 2015 |
|---|---------------|---------------|---------------|
| Agricultural Water Supplier Delivered, Acre-Feet | | | |
| Surface Water | 40,473 | 7,518 | 11,480 |
| Groundwater | 17,600 | 27,614 | 15,266 |
| Estimation of Recaptured Tailwater | 15,636 | 8,540 | 5,154 |
| Total | 73,709 | 43,672 | 31,900 |

The crops produced within the District since 1919 has primarily included rice, corn, tomatoes, alfalfa, sunflowers, safflowers, and vineseed among others. Approximately 10 different crops were grown inside the District during the 2013 – 2015 Plan Cycle years. Crops have been grouped by crop type, for the purposes of estimating crop water needs, for this AWMP. Tables 8, 9, and 10 show the crop water needs for the major crop categories, grown within the District during the Plan Cycle covered under this AWMP. The water requirements to meet crop ET (ETc), and cultural practices were determined for each crop based on data from the California Irrigation Management System (CIMIS) and information developed by the Irrigation Training and Research Center (ITRC) at California Polytechnic State University, San Luis Obispo. Reference Evapotranspiration (ETo) is based on the average monthly ETo published by CIMIS for the station at Woodland. Crop Coefficients (Kc values) were developed based on ETc data for Zone 14 contained in ITRC Report 03-001 - California Crop and Soil Evapotranspiration, January 2003, for surface irrigation in a “typical year” for 2013 and in a “dry year” for 2014 and 2015. The estimation of recaptured tailwater is based upon the District’s working water balance, which is utilized annually for planning purposes. The recaptured tailwater is unmeasured at this time. During the years of 2013 to 2015 there were no inter-croppings or double croppings in the District. These demand estimates do not account for system losses.

Table 8: Agricultural Crop Data for 2013

| Crop Type | Total Acreage | ET crop (AF) | Cultural Practices (AF) | Leaching Requirement (AF) | Total Crop Water Needs (AF) |
|------------------------|---------------|---------------|-------------------------|---------------------------|-----------------------------|
| Rice | 12,133 | 34,778 | 21,790 | 0 | 56,568 |
| Alfalfa | 585 | 1,387 | 0 | 0 | 1,387 |
| Sunflower | 276 | 339 | 0 | 0 | 339 |
| Tomatoes | 26 | 37 | 0 | 0 | 37 |
| Corn and Grain Sorghum | 1,243 | 2,090 | 0 | 0 | 2,090 |
| Total | 14,263 | 38,632 | 21,789 | 0 | 60,421 |

Table 9: Agricultural Crop Data for 2014

| Crop Type | Total Acreage | ET crop (AF) | Cultural Practices (AF) | Leaching Requirement (AF) | Total Crop Water Needs (AF) |
|--------------|---------------|---------------|-------------------------|---------------------------|-----------------------------|
| Rice | 6,628 | 19,072 | 12,438 | 0 | 31,510 |
| Sudan Grass | 212 | 534 | 0 | 0 | 534 |
| Vinseed | 64 | 69 | 0 | 0 | 69 |
| Sunflower | 376 | 497 | 0 | 0 | 497 |
| Tomatoes | 505 | 768 | 0 | 0 | 768 |
| Total | 7,785 | 20,940 | 12,438 | 0 | 33,378 |

Table 10: Agricultural Crop Data for 2015

| Crop Type | Total Acreage | ET crop (AF) | Cultural Practices (AF) | Leaching Requirement (AF) | Total Crop Water Needs (AF) |
|--------------|---------------|---------------|-------------------------|---------------------------|-----------------------------|
| Rice | 4,001 | 11,727 | 7,526 | 0 | 19,253 |
| Alfalfa | 514 | 1,249 | 0 | 0 | 1,249 |
| Tomatoes | 613 | 894 | 0 | 0 | 894 |
| Total | 5,128 | 13,869 | 7,526 | 0 | 21,396 |

Table 11: Irrigated Acres, 2013 – 2015

| | 2013 | 2014 | 2015 |
|------------------------------|--------|-------|-------|
| Total Irrigated Acres | 14,263 | 7,785 | 5,128 |

B. Environmental and Recreational Water Use

Generally, from October through February (typically the non-irrigation season for the purpose of this AWMP), the District commonly uses water for the purpose of wildlife enhancement, such as providing water fowl and wildlife habitat. Both cut and harvested rice fields are typically flooded during this time, providing habitat land in addition to water necessary for the decomposition of rice straw. Additionally, the recreational hunting of water fowl occurs during specified date ranges on these lands. **Table 12** quantifies the District’s combined environmental and recreational uses of water, including water use for rice straw decomposition, during 2013 - 2015.

Table 12: Environmental and Recreational Water Uses (AF)

| | 2013 | 2014 | 2015 |
|--------------------------------|--------|--------|--------|
| Environmental and Recreational | 15,884 | 24,263 | 19,208 |

C. Municipal and Industrial Use

The District does not use water for Municipal and Industrial purposes.

D. Groundwater Recharge Use

The District does not use water for the purpose of groundwater recharge. Incidental groundwater recharge occurs through current water delivery and use practices.

E. Transfer and Exchange Use

A land owner within the District, CPG, participated in short-term transfers during 2013, 2014, and 2015. The quantities of water transferred by CPG for the 2013 short-term Water Transfer were based on its underlying post-1914 appropriative water rights, and Settlement Contract with the United States Bureau of Reclamation. The 2014 and 2015 short-term Water Transfers were based on CPG’s Settlement Contract with the United States Bureau of Reclamation. The water rights within the District are discussed further in Section IV of this plan. **Table 13** provides details of the short-term Water Transfers for the period of 2013 through 2015, including the gross annual volume of water transferred prior to subtracting streamflow depletion losses associated with groundwater substitution.

Table 13: Water Transfers (AF)

| Year | Transfer Program | Method of Transfer | Transferee | Gross Annual Volume Transferred, AF |
|------|--------------------------------|---|--|-------------------------------------|
| 2013 | 2013 Short-Term Water Transfer | Groundwater Substitution | San Luis & Delta-Mendota Water Authority | 5,738.0 |
| 2014 | 2014 Short-Term Water Transfer | Groundwater Substitution & Crop Idling/Shifting | Tehama-Colusa Canal Authority | 26,710 |
| 2015 | 2015 Short-Term Water Transfer | Groundwater Substitution & Crop Idling/Shifting | San Luis Water District | 21,382 |

F. Other Water Use

The District does not provide water for other uses.

Section IV: Description of Quantity and Quality of the Water Resources of the Agricultural Water Supplier

A. Water Supply Quantity

1. Surface Water Sources

The District's surface water supply primarily consists of riparian rights, post-1914 appropriative rights and contractual rights to divert water from the Sacramento River. The District does not directly hold these water rights. A landowner within the District, CPG, holds post-1914 appropriative water right Licenses 904B, 905, and 5487B (Applications 1199B, 1588, and 12073B, respectively), issued by the California State Water Resources Control Board (SWRCB) that collectively allow for direct diversion of up to 232 cfs, from approximately April 1 to around October 31 from the Sacramento River.

CPG holds a Sacramento River Settlement Contract (SRSC) with the USBR. The purpose of these SRSCs was to settle water right issues along the Sacramento River to allow for the development of the federal Central Valley Project (CVP). On July 14, 1964, a SRSC was signed by the predecessor to CPG to provide a schedule of water to be made available from the CVP. This water supply is comprised of two components: Base Supply and Project Water. The SRSC includes provisions for subsequent 40-year renewals; and on March 4, 2005, the Settlement Contract (Contract No. 14-06-200-7422A-R-1) was renewed by CPG for a term of 40 years.

On March 24, 2014, USBR issued Amendment No. 1 to CPG's SRSC, which reduced the quantity of Base Supply by 10,000 AF from the quantity identified in CPG's SRSC executed on March 4, 2005. The primary purpose of Amendment No. 1 was to assign 10,000 AF of Base Supply to the Woodland-Davis Clean Water Agency. As a result of the assignment, CPG's total Base Supply and Project Water identified in Exhibit A of Amendment No. 1 is 40,862 AF from the Sacramento River during April through October. During 2013 through 2015, diversions from the Sacramento River could have been up to 50,862 AF during April through October because the Amendment No. 1 did not reduce the SRSC quantity until 2016.

The SRSC has a limited supply of up to 5,952 AF of surface water available to CPG during the months of July through September. Groundwater is generally pumped during this period to supplement the available supply of surface water in order to meet crop water demands. Groundwater pumping is discussed in other sections of this plan.

In addition to diversions from the Sacramento River, CPG holds post-1914 appropriative water right License 6320 (Application 12074), issued by the SWRCB that allows for direct diversion from Willow Slough at a rate of up to 9.4 cfs during about April 15 to about October 31. CPG also holds a post-1914 appropriative water right Permit 19372 (Application 26695) issued by the SWRCB that allows for direct diversions from Cache Creek and the Yolo Bypass of up to 100 cfs from April 15 to September 30. Surface water is available from Willow Slough, Cache Creek, and the Yolo Bypass generally during wetter years and primarily prior to the month of July.

Table 14 identifies the total annual quantity of surface water diverted from the Sacramento River, Willow Slough, Cache Creek, and the Yolo Bypass for years 2013 through 2015.

Table 14: Surface Water Supplies during Entire Calendar Year 2013 - 2015, AF

| Source | Year | | |
|--------------------------------------|--------|--------|--------|
| | 2013 | 2014 | 2015 |
| Sacramento River Diversions | 52,851 | 30,117 | 32,845 |
| Cache Creek & Yolo Bypass Diversions | 0 | 0 | 0 |
| Willow Slough Diversions | 3,729 | 0 | 0 |
| Total | 56,580 | 30,117 | 28,845 |

Table 15 summarizes the restrictions on the District’s various water sources; Sacramento River, Cache Creek, and Willow Slough.

Table 15: Surface Water Restrictions/Constraints

| Source | Restrictions | Name of Agency Imposing Restrictions | Operational Constraints |
|------------------|---|---|---|
| Sacramento River | Riparian and Post-1914 Rights, SRSC Terms | SWRCB and United States Bureau of Reclamation | Contract, License, and Permit terms and conditions, hydrologic conditions |
| Cache Creek | Post-1914 Water Rights | SWRCB | |
| Willow Slough | Post-1914 Water Rights | SWRCB | |

2. Groundwater Sources

The District is located within the Sacramento Valley Groundwater basin, specifically within the Yolo and Colusa subbasins. Table 16 lists the portions of the groundwater basin and subbasins underlying the District obtained from DWR. Figure 3 shows the boundaries of the District relative to these groundwater subbasins.

Table 16: Groundwater Basins

| Basin Name | Code |
|-------------------------|---------|
| Sacramento Valley Basin | 5-21.00 |
| Yolo Subbasin | 5-21.67 |
| Colusa Subbasin | 5-21.52 |

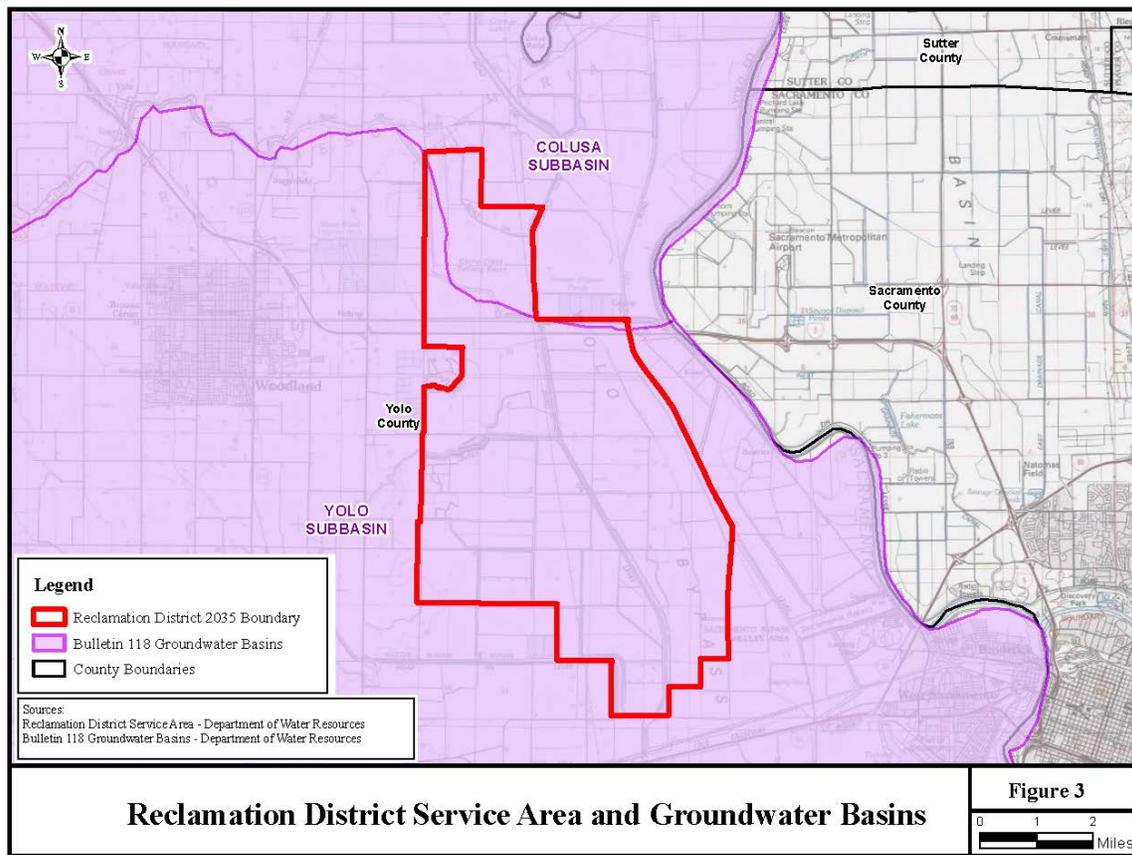


Figure 3. Groundwater Subbasin Map

CPG owns and operates 38 groundwater production wells within the District. In general, the 38 production wells have casing diameters ranging from about 8 to 30 inches and depths ranging from approximately 175 feet to around 1,000 feet below the ground surface. A vast majority of the wells are powered by electric motors. The Groundwater Well Location Map, **Figure 4**, shows the location of these production wells within the District.

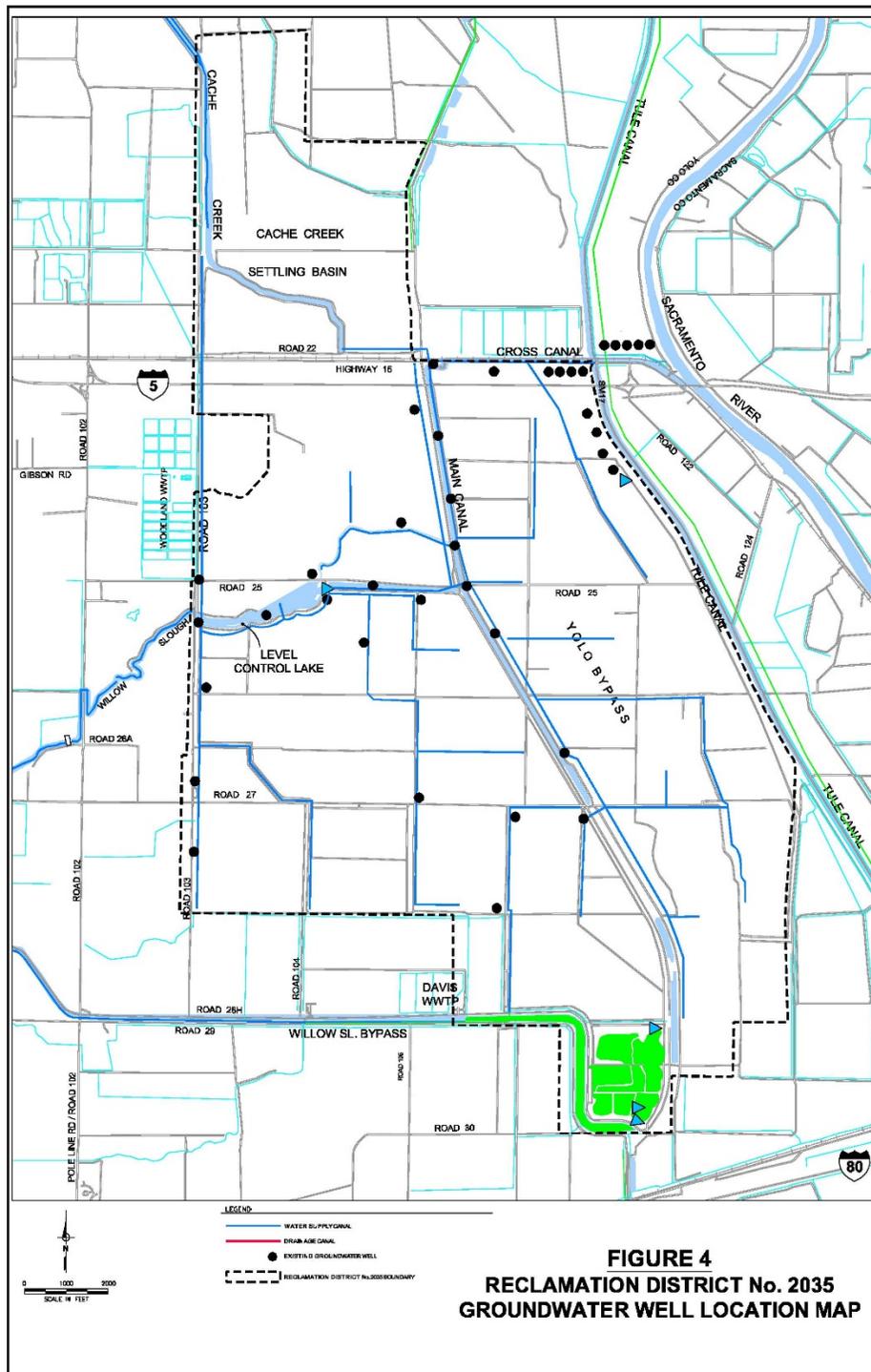


Figure 3. Well Location Map

Groundwater is typically pumped during the months of July through September, although some pumping does occur during the months of May and June. As mentioned above, the surface water supply

available during July through September is limited. Groundwater is pumped to augment the supply of surface water available to meet crop water demands. The quantity of groundwater pumped during a particular year is dependent upon hydrologic conditions, CPG’s farm plan and water demands, CPG’s potential participation in water transfers, and other factors. Water transfers are discussed in Section III.E of this AWMP. **Table 17** shows the estimated quantities of groundwater pumped within the District during the years 2013 through 2015. The quantities are based upon flow meter totalizer readings or calculations based on hours of operation for a well and pump efficiency test results.

Table 17: Groundwater Pumping during Entire Calendar Year, AF

| Year | 2013 | 2014 | 2015 |
|-------------|-------------|-------------|-------------|
| Groundwater | 17,600 | 29,110 | 18,016 |

3. Other Water Sources

There are no other water supplies available to the District.

4. Drainage from District’s Service Area

Essentially, all drainage water is captured by the closed system during the irrigation system, and reapplied to lands within the District. The District may discharge water from its closed system during the fall and late winter/early spring to drain fields for harvest and in preparation for planting of crops for the upcoming irrigation season.

B. Water Supply Quality

The District has not experienced any known significant adverse impacts associated with surface water or groundwater quality. In May and June 2011, Luhdorff & Scalmanini Consulting Engineers (L&S) performed water quality testing at eight agricultural wells (owned by CPG within the District), and at the District’s Sacramento River Intake. The sample collection reflects one period of time relative to groundwater quality in the shallow and intermediate aquifer zones as well as the major source of the District’s surface water supply. The results of this testing are discussed in the following sections.

1. Surface Water Sources

As previously described, the main source of surface water available for delivery within the District originates from the Sacramento River. The water sample obtained at the District’s Sacramento River Intake had non-detectable levels of selenium, boron, and arsenic. Mercury was not detected in the sample from the Sacramento River Intake.

The District has not experienced any known significant adverse impacts associated with surface water quality, and the District does not currently have a surface water quality monitoring program.

2. Groundwater Sources

The 2011 L&S testing showed selenium, boron, and arsenic levels in the well water samples are generally low. Mercury was not detected in the sampling of well water. The specific conductance monitoring from the 2013, 2014 and 2015 short-term water transfers showed the specific conductance from the wells monitored varied from about 300 to about 1,500 microsiemens per centimeter.

The District has not experienced any known significant adverse impacts associated with groundwater quality, and the District does not currently have a groundwater quality monitoring program. Additional information regarding groundwater quality conditions near the District are described in the YCFC&WCD Groundwater Management Plan.

3. Other Water Sources

There are no other water supplies available to the District.

4. Drainage from District's Service Area

The District captures a vast majority of its drainage water and reapplies this water to the lands within the District. This recaptured water is mixed with surface water and groundwater, diluting the concentration of any constituents which may be present. There have been no reported water quality issues related to the District's drainage/tailwater.

C. Source Water Quality Monitoring Practices

As described previously in this AWMP, the District does not currently have specific water quality monitoring programs. Current water quality monitoring activities within the Yolo County Integrated Regional Water Management Plan provide regional water quality data. The purpose and scope of these monitoring activities varies within individual watersheds and across the region.

Surface Water – As previously described, the main source of surface water available for delivery inside the District originates from the Sacramento River. The District has not experienced any known significant adverse impacts associated with surface water quality, and currently does not have a surface water quality monitoring program.

Groundwater – As previously described, there are no documented identified impediments to quality within the District which would affect groundwater pumped for irrigation. The District has not experienced any known significant adverse impacts associated with groundwater quality, currently does not have a groundwater quality monitoring program.

Section V: Water Accounting and Water Supply Reliability

A. Quantifying the Water Supplies

The District’s agricultural water deliveries occur during the irrigation season, generally taking place from April through September. The following section describes and quantifies, agricultural water supplies and uses, during the irrigation seasons of 2013 - 2015.

1. Surface Water Supplies

Tables 18 - 20 show the April through September Sacramento River, Cache Creek and Willow Slough diversions for the AWMP cycle.

Table 18: 2013 Surface Water Supplies (AF)

| Source | Apr | May | Jun | Jul | Aug | Sep | Total |
|------------------|--------------|---------------|---------------|--------------|--------------|------------|---------------|
| Sacramento River | 3,728 | 14,206 | 11,627 | 6,205 | 1,509 | 0 | 37,275 |
| Cache Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Willow Slough | 533 | 533 | 533 | 533 | 533 | 533 | 3,198 |
| Total | 4,261 | 14,739 | 12,160 | 6,738 | 2,042 | 533 | 40,473 |

Table 19: 2014 Surface Water Supplies (AF)

| Source | Apr | May | Jun | Jul | Aug | Sep | Total |
|------------------|----------|--------------|------------|--------------|------------|--------------|--------------|
| Sacramento River | 0 | 1,833 | 438 | 3,699 | 429 | 1,119 | 7,518 |
| Cache Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Willow Slough | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 1,833 | 438 | 3,699 | 429 | 1,119 | 7,518 |

Table 20: 2015 Surface Water Supplies (AF)

| Source | Apr | May | Jun | Jul | Aug | Sep | Total |
|------------------|--------------|--------------|--------------|--------------|--------------|------------|---------------|
| Sacramento River | 1,047 | 4,138 | 1,112 | 2,374 | 2,309 | 500 | 11,480 |
| Cache Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Willow Slough | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 1,047 | 4,138 | 1,112 | 2,374 | 2,309 | 500 | 11,480 |

2. Groundwater Supplies

As described above, the District does not own or operate any groundwater wells. Landowners supplement the surface water supplies with groundwater from privately owned wells. **Table 21** identifies the quantities of groundwater pumped by landowners inside the District’s service area during the months of April through September.

Table 21: Groundwater Supplies (AF)

| Groundwater Supplies Summary for 2013 - 2015 (AF) During April through September | |
|---|--|
| Year | Groundwater Pumped inside Service Area by landowners in Yolo and Colusa Subbasins |
| 2013 | 17,600 |
| 2014 | 27,614 |
| 2015 | 15,266 |

3. Other Water Sources

Tables 22 summarizes the effective precipitation for lands inside the District during 2013 – 2015. The table included the estimated effective precipitation calculated for the months that irrigation deliveries are typically made, March through September. Note that effective precipitation is estimated at 60% of the average monthly growing season precipitation greater than 0.5 inches recorded at the Woodland CIMIS station for years 2013 - 2015, multiplied by the non-rice crop acreage. Because of the nature of flooded areas, irrigation season precipitation increases the volume of water in the flooded basin, it typically flows through the fields; therefore, is assumed to be unavailable to meet crop demands. March is included because it is assumed soil moisture from March precipitation will be used by the planted crops.

Table 22: Effective Precipitation (AF)

| Month | 2013 | 2014 | 2015 |
|--------------|-------------|-------------|-------------|
| March | 93 | 30 | 0 |
| April | 32 | 56 | 41 |
| May | 0 | 35 | 0 |
| June | 0 | 0 | 0 |
| July | 0 | 0 | 0 |
| August | 0 | 0 | 0 |
| September | 0 | 0 | 0 |
| Total | 125 | 121 | 41 |

B. Quantification of Water Uses

Table 23 summarizes the water uses inside the District’s service area. No estimates have been made to determine the losses associated with the conveyance of water throughout the District.

Table 23: Quantification of Water Use

| Water Uses | | 2013 | 2014 | 2015 |
|---|-------------------------|---------------|---------------|---------------|
| Crop Water Use (from Table 8 - 10) | | | | |
| 1 | Crop evapotranspiration | 38,632 | 20,940 | 13,869 |
| 2 | Leaching | -- | -- | -- |
| 3 | Cultural practices | 21,790 | 12,438 | 7,526 |
| Municipal and Industrial | | | | |
| 4 | M&I non-ag | 0 | 0 | 0 |
| 5 | Industrial | 0 | 0 | 0 |
| Subtotal | | 60,421 | 33,378 | 21,396 |
| ¹ For the purpose of this quantification of water use, no attempt has been made to estimate the losses due to the conveyance of water. | | | | |

As shown in **Table 24** and **Table 25** there is minimal water leaving the District and there are no irrecoverable losses from the District. The District may discharge water from its closed system during the late winter and early spring into habitat lands inside the Yolo Bypass in preparation for the upcoming planting season.

Table 24: Water Leaving the District

| Drain Water | 2013 – 2015 |
|--|--------------|
| Surface drain water leaving the service area | Not Measured |
| Sub-surface drain water leaving the service area | Not Measured |

Table 25: Water Irrecoverable Losses

| | 2013 – 2015 |
|------------------------------|-------------|
| Flows to saline sink | 0 |
| Flows to perched water table | 0 |

C. Overall Water Budget

Table 26 summarizes the District’s water budget for the Plan Cycle (2013 – 2015). As discussed above, water supplies include water diverted from the Sacramento River, Willow Slough, groundwater pumped from CPG, an estimation of captured and recirculated drain water and the effective precipitation, all during the months of April through September.

Table 26: Quantification of Water Supplies for 2013 – 2015 Plan Cycle – April through September

| Water Supplies | | 2013 | 2014 | 2015 |
|-----------------|--|---------------|---------------|---------------|
| 1 | Surface Water (summary total from Table 18 - 20) | 40,473 | 7,518 | 11,480 |
| 2 | Groundwater from Landowner Wells (Table 21) | 17,600 | 27,614 | 15,266 |
| 3 | Estimation of Recirculation Water (Table 7) | 15,636 | 8,540 | 5,154 |
| 4 | Effective Precipitation (Table 22) | 125 | 121 | 41 |
| Subtotal | | 73,834 | 43,793 | 31,941 |

Table 27 summarizes the District’s water budget for the 2013-2015 Plan Cycle.

Table 27: Water Budget Summary, April through September

| Water Accounting | | 2013 | 2014 | 2015 |
|------------------|--|--------|--------|--------|
| 1 | Subtotal of Water Supplies (Table 26) | 73,834 | 43,793 | 31,941 |
| 2 | Subtotal of Water Use (Table 23) | 60,421 | 33,378 | 21,396 |
| 3 | Drain Water Leaving Service Area (As shown in Table 24 and Table 25 there is minimal irrecoverable losses from the District) | 0 | 0 | 0 |
| 4 | Estimated Conveyance System Losses ¹ | 13,413 | 10,415 | 12,250 |

¹Estimated Conveyance System Losses in this table is the closure term in the mass water balance. As such, the quantity shown includes unaccounted for drain water outflow, any errors in assumptions used in calculations or estimated uses such as crop water use (ET), effective precipitation, evaporation, groundwater recharge, etc. More than half of the rice acreage in 2014 and two thirds in 2015 was idled, reducing the conveyance efficiency of the system.

D. Water Supply Reliability

The SRSC held by CPG provides a reliable supply of surface water in even to most dry years. During years classified as “Shasta Critical”, CPG’s SRSC supply is reduced to 75%. Since 1964, the SRSC has contract supply has been reduced to 75% in only six years. This occurred in 1977, 1991, 1992, 1994, 2014 and 2015. Since 1964 CPG received a full SRSC supply approximately 88% of the time, or 46 out of 52 years. During years of reduced SRSC supply, land owners inside the District have utilized their groundwater supplies to meet the additional crop demands.

Section VI: Climate Change

Based on a recent report by the U.S. Bureau of Reclamation, *West-Wide Climate Risk Assessment Sacramento and San Joaquin Basins Climate Impact Assessment*, projected climate change exhibited a trend of higher temperatures in the winter, resulting in more precipitation as rainfall. This would produce more runoff in the winter and less snowpack, reducing the spring runoff. Therefore, reservoirs that rely heavily on snow melt may fill earlier in the year.

The District's surface water supply reliability is based upon the SRSC held by CPG. The SRSC supply varies from a 75% supply to a 100% supply based upon the year hydrologic conditions, specifically the estimated cumulative full natural inflow into Shasta Lake for a specific water year. Cumulative full natural inflow is based on mean daily data obtained from the CDEC.

Section VII: Water Use Efficiency Information

A. EWMP Implementation and Reporting

As noted in the 2015 Guidebook if certain EWMPs are not locally cost-effective or technically feasible they do not have to be implemented. Additionally, water suppliers providing water to 10,000 to 25,000 irrigated acres, including the District, must implement the EWMPs only if funding is provided (Water Code §597.1 [e]). All EWMPs have been evaluated below.

EWMP No. 1 – Water Measurement (Not Implemented - Funding not provided)

Surface water diversions from the Sacramento River are metered and measurements are obtained by USBR staff on a monthly basis. Pumped groundwater quantities from land owner wells is also monitored and measured on a monthly basis. The District does not currently engage in farm-gate measurement. Implementation of farm-gate delivery measurement will depend upon the District receiving funding specifically for this purpose.

EWMP No. 2 – Volumetric Pricing (Not Implemented)

Because the District does not engage in farm-gate delivery measurement, volumetric pricing is not possible at this time.

EWMP No. 3 – Alternate Land Use (Technically Infeasible)

During times of drought, CPG may elect to idle lands generally planted with crops of high water duties for the purposes of water transfers. This action reduces the water demand of the District.

The District is looking into various water saving activities such as an increase in row crops and drip irrigation and a reduced rice acreage.

EWMP No. 4 – Recycled Water Use (Technically Infeasible)

Recycled water is currently not available to the District, and recycled water is not generated within the District's boundaries. Therefore, this EWMP is not applicable to the District.

EWMP No. 5 – On-Farm Irrigation Capital Improvements (Not Implemented)

The District does not currently engage in the facilitation of financing of capital improvements for on-farm irrigation systems.

EWMP No. 6 – Incentive Pricing Structure (Not Implemented)

Because EWMP No. 1 is not implemented at this time an incentive pricing structure is not possible.

EWMP No. 7 – Infrastructure Improvements (Implemented/Ongoing)

The District continues to implement infrastructure improvements projects. The District engages in ongoing maintenance of its conveyance system in preparation for the upcoming irrigation season. As discussed above, the District is currently replacing its existing river intake facility with a screened intake facility.

EWMP No. 8 – Order/Delivery Flexibility (Implemented/Ongoing)

The District continues to work with its on demand customers to accommodate more flexible deliveries. The District has supplied its ditch tenders with cell phones and to accommodate delivery flexibility and system maintenance. This is part of an ongoing process to improve water service and efficiency within the District.

EWMP No. 9 – Supplier Spill and Tailwater Systems (Implemented/Ongoing)

As previously mentioned, the District' tailwater recovery system captures drain water and delivers the water back to the main conveyance system.

EWMP No. 10 – Conjunctive Use (Implemented/Ongoing)

As previously discussed, the District does not own any groundwater wells. CPG owns and operates the production wells to supplement the surface water supply generally during the months of July through September in order to ensure the growers within the District have an adequate water supply. The District will continue to optimize conjunctive use efforts in the future. Therefore, the District considers this EWMP fully implemented and ongoing.

EWMP No. 11 – Automated Canal Controls (Not Implemented)

The District does not utilize automated canals to control canal operations at this time. The District is currently seeking funding to implement the automation of a canal on the western side of the District.

EWMP No. 12 – Customer Pump Test/Evaluations (Implemented/Ongoing)

The District does not preform pump tests or evaluations. CPG has performed pump tests on its groundwater wells within the District for the purpose of quantifying past water usage and to develop a pumping prioritization schedule to prioritize pumping from the most efficient wells.

EWMP No. 13 – Water Conservation Coordinator (Implemented)

Mike Halls is the District's water conservation coordinator. This EWMP is fully implemented.

EWMP No. 14 – Water Management Services to Customers (Implemented/Ongoing)

Evapotranspiration rates are available from the California Irrigation Management Information System (CIMIS) for the Woodland area. This data can be used for irrigation scheduling to best optimize the water supply provided to the growers.

EWMP No. 15 – Identify Institutional Changes (Implemented/Ongoing)

The District understands that there are three basic components to a water delivery service including equity, reliability, and flexibility. When considering modifications to District policies and facilities, the District is aware of the significance to optimize these components. The District believes that it is also important to recognize the evolving demands of the water users based on improved water management practices and to incorporate the means to meet the demands by updating and enhancing District policies as necessary.

EWMP No. 16 – Supplier Pump Improved Efficiency (Implemented/Ongoing)

The District operates pumps that are tested/maintained on an as needed basis. Recently the CPG has installed variable frequency drives on many of its groundwater pumps to control operation and improve efficiency. The District will continue to explore efforts to optimize energy use efficiency.

Section VIII: Appendices

The following supporting documentation is attached as Appendices:

Appendix A: Notice of draft Agricultural Water Management Plan

Appendix B: Notice of Public Hearing

Appendix C: Board Resolution Adopting Agricultural Water Management Plan

Appendix D: Agricultural Water Management Plan Checklist

Section IX: References

(Tibbetts, 1920). Report to the Board of Trustees of Reclamation District No 2035 on a Plan for the Complete Reclamation, Drainage and Irrigation of the Lands within the District with the Estimate of Cost. May 1920.

(Bonte, 1930). Bulletin No. 37 – Financial and General Data pertaining to Irrigation, Reclamation and Other Public Districts in California. 1930.

(DWR, 2003). Bulletin No. 118 – California’s Groundwater: Update 2003. Sacramento, California. 2003.

(DWR, 2003). ITRC Report 03-001 - California Crop and Soil Evapotranspiration. January 2003

(City of Davis Public Works, 2007). Davis-Woodland Water Supply Project: Final Environmental Impact Report. Davis, California. October 2007.

(USBR, 2014). West-Wide Climate Risk Assessment Sacramento and San Joaquin Basins Climate Impact Assessment. 2014.

The Natural Resources Conservation Service (NRCS) 2015 Yolo County Survey.

<http://www.cimis.water.ca.gov/Default.aspx>

<http://www.cimis.water.ca.gov/UserControls/Reports/HourlyReportViewer.aspx>

<http://www.ncdc.noaa.gov/cdo-web/datasets/ANNUAL/stations/COOP:049781/detail>

Appendix A:
Notice of Agricultural Water Management Plan



Water Resources ♦ Flood Control ♦ Water Rights

GILBERT COSIO, JR., P.E.
MARC VAN CAMP, P.E.
WALTER BOUREZ, III, P.E.
RIC REINHARDT, P.E.
GARY KIENLEN, P.E.
DON TRIEU, P.E.
DARREN CORDOVA, P.E.
NATHAN HERSHEY, P.E., P.L.S.
LEE BERGFELD, P.E.
BEN TUSTISON, P.E.

ANGUS NORMAN MURRAY
1913 -1985

CONSULTANTS:
JOSEPH I. BURNS, P.E.
DONALD E. KIENLEN, P.E.

June 22, 2016

Dear Yolo County Board of Supervisors:

On behalf of Reclamation District No. 2035 (District), and in accordance with the provisions of California Water Code §10821, is providing notification of the preparation of a Draft 2015 Agricultural Water Management Plan (Draft 2015 AWMP). The District's Draft 2015 AWMP is prepared in accordance with the Governor's Executive Order B-29-15, dated April 25, 2014. The District's Board of Directors has scheduled a public hearing to consider adopting the Draft 2015 AWMP. The hearing is scheduled to take place on Thursday, June 30, 2016 at 9:30 a.m., and will be held at the District Office:

RD 2035 District Office
45332 County Road 25
Woodland, CA 95776

Please contact Mike Hall at (530) 662-6200 to obtain additional information relative to the preparation of the Draft 2015 AWMP.

Sincerely,

A handwritten signature in blue ink that reads "Julian Stovell". The signature is written in a cursive style.

MBK ENGINEERS



Water Resources ♦ Flood Control ♦ Water Rights

GILBERT COSIO, JR., P.E.
MARC VAN CAMP, P.E.
WALTER BOUREZ, III, P.E.
RIC REINHARDT, P.E.
GARY KIENLEN, P.E.
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LEE BERGFELD, P.E.
BEN TUSTISON, P.E.

ANGUS NORMAN MURRAY
1913 -1985

CONSULTANTS:
JOSEPH I. BURNS, P.E.
DONALD E. KIENLEN, P.E.

June 22, 2016

Mr. Tim O'Halloran
Yolo County Flood Control and Water Conservation District
34274 State Highway 16
Woodland, Ca 95695

Dear Mr. O'Halloran:

On behalf of Reclamation District No. 2035 (District), and in accordance with the provisions of California Water Code §10821, is providing notification of the preparation of a Draft 2015 Agricultural Water Management Plan (Draft 2015 AWMP). The District's Draft 2015 AWMP is prepared in accordance with the Governor's Executive Order B-29-15, dated April 25, 2014. The District's Board of Directors has scheduled a public hearing to consider adopting the Draft 2015 AWMP. The hearing is scheduled to take place on Thursday, June 30, 2016 at 9:30 a.m., and will be held at the District Office:

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45332 County Road 25
Woodland, CA 95776

Please contact Mike Hall at (530) 662-6200 to obtain additional information relative to the preparation of the Draft 2015 AWMP.

Sincerely,

A handwritten signature in blue ink that reads "Julian Stordell". The signature is written in a cursive, flowing style.

MBK ENGINEERS

Appendix B:
Notice of Public Hearing

Advertising Order Confirmation

REPORTER

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Page 1

Ad Order Number

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Customer

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Payor Customer

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NOH- 2035 AWMP

Sales Representative

Haleigh Hernandez/VR

Customer Account

3633459

Payor Account

3633459

Ordered By

Order Taker

Haleigh Hernandez

Customer Address

1771 TRIBUTE ROAD, STE A
SACRAMENTO, CA 95815

Payor Address

1771 TRIBUTE ROAD, STE A
SACRAMENTO, CA 95815

Customer Fax

Order Source

Select Source

Customer Phone

916-456-4400

Payor Phone

916-456-4400

Customer EMail

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Page 2

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External Ad Number Pick Up Ad Type Released for Publication
 Legal Liner

NOTICE OF PUBLIC HEARING

Notice is hereby given that the Reclamation District No. 2035 staff has prepared an Agricultural Water Management Plan and that the Board of Directors will conduct a hearing to consider that plan and its recommendation.

Place: Reclamation District office
 45332 County Road 25
 Woodland, CA 95776

Date & Time:
 Thursday, June 30, 2016 at 9:30 a.m.

The document is available at the District office, as identified above.

For further information contact Mike Hall at (530) 662-6200.

| <u>Product</u> | <u>Requested Placement</u> | <u>Requested Position</u> | <u>Run Dates</u> | <u># Inserts</u> |
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| Woodland Daily Democrat | Legals CLS NC | Notice of Hearing NC - 1076~ | 06/16/16, 06/23/16 | 2 |

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Date

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Appendix C:
Board Resolution Adopting Agricultural Water Management
Plan

RESOLUTION NO. 2016-005

**A RESOLUTION OF THE BOARD OF TRUSTEES OF
RECLAMATION DISTRICT NO. 2035 ADOPTING RECLAMATION DISTRICT NO.
2035's 2016 AGRICULTURAL WATER MANAGEMENT PLAN**

WHEREAS, the Agricultural Water Management Planning Act ("AWMPA"), at Water Code sections 10800, *et seq.*, requires that specified public agencies, including Reclamation District No. 2035 ("District"), prepare and adopt an Agricultural Water Management Plan at stated intervals; and

WHEREAS, The Governor's Executive Order B-29-15 requires agricultural water suppliers that supply water to 10,000 to 25,000 acres of irrigated lands to develop Agricultural Water Management Plans and submit the plans to the Department of Water Resources by July 1, 2016; and

WHEREAS, in accordance with its obligations under the AWMPA and Executive Order B-29-15, the District has prepared its proposed 2016 Agricultural Water Management Plan; and

WHEREAS, the District has satisfied the statutory procedural requirements for the adoption of the 2016 Agricultural Water Management Plan.

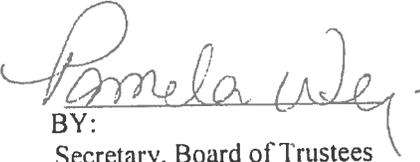
NOW, THEREFORE, BE IT RESOLVED by the Reclamation District No. 2035 that:

1. The above stated recital are true and correct and are incorporated herein.
2. The District's 2016 Agricultural Water Management Plan, and the proceedings leading to its adoption, comply with the provisions of the AWMPA, and the 2016 Agricultural Water Management Plan is therefore adopted by the District Board of Trustees.
3. PASSED AND ADOPTED by the Board of Trustees of the Reclamation District No. 2035 on this 30th day of June, 2016, by the following vote:

AYES: DIRECTORS: 3
NOES: DIRECTORS: 0
ABSENT: DIRECTORS: 0


BY:
President, Board of Trustees
Reclamation District No. 2035

I hereby certify that the foregoing resolution was duly and regularly adopted and passed by the Board of Trustees of Reclamation District No. 2035 at a regular meeting hereof held on the 30th day of June, 2016.


BY:
Secretary, Board of Trustees
Reclamation District No. 2035

Appendix D:
Agricultural Water Management Plan Checklist

2015 Agricultural Water Management Plan Checklist

| AWMP* Location | Guidebook Location | Description | Water Code Section (or other, as identified) |
|-------------------|-----------------------|---|---|
| YES | 1.4 | AWMP Required? | 10820, 10608.12 Executive Order B-29-15 |
| YES | 1.4 | At least 25,000 irrigated acres <i>At least 10,000 irrigated acres</i> | 10853 <i>Executive Order B-29-15</i> |
| YES | 1.4 | 10,000 to 25,000 acres and funding provided | 10853 |
| YES | 1.4 | December 31, 2015 update <i>July 1, 2016 2015 AWMP for agricultural water suppliers 10,000 to 25,000 irrigated acres</i> | 10820 (a) <i>Executive Order B-29-15</i> |
| NA | 1.4 | 5-year cycle update | 10820 (a) |
| NA | 1.4 | New agricultural water supplier after December 31, 2012 - AWMP prepared and adopted within 1 year | 10820 (b) |
| NA | 1.5, 5 | USBR water management/conservation plan: | 10828(a) <i>Executive Order B-29-15</i> |
| NA | 1.5, 5.1 | Adopted and submitted to USBR within the previous four years, AND | 10828(a)(1) |
| NA | 1.5, 5.1 | The USBR has accepted the water management/conservation plan as adequate | 10828(a)(2) |
| NA | 1.4 | UWMP or participation in area wide, regional, watershed, or basin wide water management planning: does the plan meet requirements of SB X7-7 2.8 (use checklist) | 10829 |
| I.A. | 3.1 A | Description of previous water management activities | 10826(d) |
| I.B.1 | 3.1 B.1 | Was each city or county within which supplier provides water supplies notified that the agricultural water supplier will be preparing or amending a plan? | 10821(a) |
| I.B.2 | 3.2 B.2 | Was the proposed plan available for public inspection prior to plan adoption? | 10841 |
| I.B.2 | 3.1 B.2 | Publicly-owned supplier: Prior to the hearing, was the notice of the time and place of hearing published within the jurisdiction of the publicly owned agricultural water supplier in accordance with Government Code 6066? | 10841 |
| I.B.2 | 3.1 B.2 | 14 days notification for public hearing | GC 6066 |
| I.B.2 | 3.1 B.2 | Two publications in newspaper within those 14 days | GC 6066 |
| I.B.2 | 3.1 B.2 | At least 5 days between publications? (not including publication date) | GC 6066 |
| NA | 3.1 B.2 | Privately-owned supplier: was equivalent notice within its service area and reasonably equivalent opportunity that would otherwise be afforded through a public hearing process provided? | 10841 |
| I.C.1 | 3.1 C.1 | After hearing/equivalent notice, was the plan adopted as prepared or as modified during or after the hearing? | 10841 |
| I.C.2 | 3.1 C.2 | Was a copy of the AWMP, amendments, or changes, submitted to the entities below, no later than 30 days after the adoption? | 10843(a) |
| I.C.2 | 3.1 C.2 | The department. | 10843(b)(1) |

| AWMP* Location | Guidebook Location | Description | Water Code Section (or other, as identified) |
|----------------|--------------------|---|---|
| I.C.2 | 3.1 C.2 | Any city, county, or city and county within which the agricultural water supplier provides water supplies. | 10843(b)(2) |
| I.C.2 | 3.1 C.2 | Any groundwater management entity within which jurisdiction the agricultural water supplier extracts or provides water supplies. | 10843(b)(3) |
| I.C.2 | 3.1 C.2 | Any urban water supplier within which jurisdiction the agricultural water supplier provides water supplies. | 10843(b)(4) |
| I.C.2 | 3.1 C.2 | Any city or county library within which jurisdiction the agricultural water supplier provides water supplies. | 10843(b)(5) |
| I.C.2 | 3.1 C.2 | The California State Library. | 10843(b)(6) |
| I.C.2 | 3.1 C.2 | Any local agency formation commission serving a county within which the agricultural water supplier provides water supplies. | 10843(b)(7) |
| I.C.3 | 3.1 C.3 | Adopted AWMP availability | 10844 |
| NA | 3.1 C.3 | Was the AWMP available for public review on the agricultural water supplier's Internet Web site within 30 days of adoption? | 10844(a) |
| I.C.3 | 3.1 C.3 | If no Internet Web site, was an electronic copy of the AWMP submitted to DWR within 30 days of adoption? | 10844(b) |
| I.D | 3.1 D.1 | Implement the AWMP in accordance with the schedule set forth in its plan, as determined by the governing body of the agricultural water supplier. | 10842 |
| II | 3.2 | Description of the agricultural water supplier and service area including: | 10826(a) |
| II.B.1 | 3.2 A.1 | Size of the service area. | 10826(a)(1) |
| II.B.2 | 3.2 A.2 | Location of the service area and its water management facilities. | 10826(a)(2) |
| II.B.3 | 3.2 A.3 | Terrain and soils. | 10826(a)(3) |
| II.B.4 | 3.2 A.4 | Climate. | 10826(a)(4) |
| II.C.1 | 3.2 B.1 | Operating rules and regulations. | 10826(a)(5) |
| II.C.2 | 3.2 B.2 | Water delivery measurements or calculations. | 10826(a)(6) |
| II.C.3 | 3.2 B.3 | Water rate schedules and billing. | 10826(a)(7) |
| II.C.4 | 3.2 B.4 | Water shortage allocation policies. <i>Drought Management Plan</i> | 10826(a)(8) <i>Executive Order B-29-15</i> |
| III | 3.3 | Water uses within the service area, including all of the following: | 10826(b)(5) |
| III.A | 3.3 A | Agricultural. | 10826(b)(5)(A) |
| III.B | 3.3 B | Environmental. | 10826(b)(5)(B) |
| III.C | 3.3 C | Recreational. | 10826(b)(5)(C) |
| III.D | 3.3 D | Municipal and industrial. | 10826(b)(5)(D) |
| III.E | 3.3 E | Groundwater recharge. | 10826(b)(5)(E) |
| III.F | 3.3 F | Transfers and exchanges. | 10826(b)(5)(F) |
| III.G | 3.3 G | Other water uses. | 10826(b)(5)(G) |
| IV.A | 3.4 A | Description of the quantity of agricultural water supplier's supplies as: | 10826(b) |
| IV.A.1 | 3.4 A.1 | Surface water supply. | 10826(b)(1) |
| IV.A.2 | 3.4 A.2 | Groundwater supply. | 10826(b)(2) |
| IV.A.3 | 3.4 A.3 | Other water supplies. | 10826(b)(3) |
| IV.A.4 | 3.4 A.4 | Drainage from the water supplier's service area. | 10826(b)(6) |
| IV.B | 3.4 B | Description of the quality of agricultural waters suppliers supplies as: | 10826(b) |
| IV.B.1 | 3.4 B.1 | Surface water supply. | 10826(b)(1) |
| IV.B.2 | 3.4 B.2 | Groundwater supply. | 10826(b)(2) |
| IV.B.3 | 3.4 B.3 | Other water supplies. | 10826(b)(3) |

| AWMP* Location | Guidebook Location | Description | Water Code Section (or other, as identified) |
|-----------------------|---------------------------|---|---|
| IV.C | 3.4 C | Source water quality monitoring practices. | 10826(b)(4) |
| IV.B.4 | 3.4 B.4 | Drainage from the water supplier's service area. | 10826(b)(6) |
| V | 3.5 | Description of water accounting, including all of the following: | 10826(b)(7) |
| V.A | 3.5 A | Quantifying the water supplier's water supplies. | 10826(b)(7)(A) |
| V.B | 3.5 B | Tabulating water uses. | 10826(b)(7)(B) |
| V.C | 3.5 C | Overall water budget. | 10826(b)(7)(C) |
| V.D | 3.5 D | Description of water supply reliability. | 10826(b)(8) |
| VI | 3.6 | Analysis of climate change effect on future water supplies analysis | 10826(c) |
| VII | 3.7 | Water use efficiency information required pursuant to Section 10608.48. | 10826(e) |
| VII.A | 3.7 A | Implement efficient water management practices (EWMPs) | 10608.48(a) |
| VII.A | 3.7 A.1 | Implement Critical EWMP: Measure the volume of water delivered to customers with sufficient accuracy to comply with subdivision (a) of Section 531.10 and to implement paragraph (2). | 10608.48(b) |
| VII.A | 3.7 A.1 | Implement Critical EWMP: Adopt a pricing structure for water customers based at least in part on quantity delivered. | 10608.48(b) |
| VII.A | 3.7 A.2 | Implement additional locally cost-effective and technically feasible EWMPs | 10608.48(c) |
| VII.A | 3.7 B | If applicable, document (in the report) the determination that EWMPs are not locally cost- effective or technically feasible | 10608.48(d) |
| VII.A | 3.7 A | Include a report on which EWMPs have been implemented and planned to be implemented | 10608.48(d) |
| I.A & VII.A | 3.7 A | Include (in the report) an estimate of the water use efficiency improvements that have occurred since the last report, and an estimate of the water use efficiency improvements estimated to occur five and 10 years in the future. | 10608.48(d) |
| NA | 5 | USBR water management/conservation plan may meet requirements for EWMPs | 10608.48(f) |
| VII.A | 6 A | Lack of legal access certification (if water measuring not at farm gate or delivery point) | CCR §597.3(b)(2)(A) |
| VII.A | 6 B | Lack of technical feasibility (if water measuring not at farm gate or delivery point) | CCR §597.3(b)(1)(B), §597.3(b)(2)(B) |
| VII.A | 6 A, 6 B | Delivery apportioning methodology (if water measuring not at farm gate or delivery point) | CCR §597.3.b(2)(C), |
| VII.A | 6 C | Description of water measurement BPP | CCR §597.4(e)(2) |
| VII.A | 6 D | Conversion to measurement to volume | CCR §597.4(e)(3) |
| VII.A | 6 E | Existing water measurement device corrective action plan? (if applicable, including schedule, budget and finance plan) | CCR §597.4(e)(4)) |

* Note where compliance with this requirement is located in your AWMP

Source: A Guidebook to Assist Agricultural Water Suppliers to Prepare a 2015 AWMP
Website: <http://www.water.ca.gov/wateruseefficiency/sb7/>