



Memorandum

To:	Chino Basin Watermaster
From:	Veva Weamer
Date:	March 2, 2017
Subject:	Chino Basin Watermaster submittal of the water year 2016 reporting requirements for adjudicated basins pursuant to the Sustainable Groundwater Management Act

Pursuant to the Sustainable Groundwater Management Act (SGMA) requirements for adjudicated basins, as described in California Water Code (CWC) Section 10720.8(f), the Chino Basin Watermaster (Watermaster) is preparing to submit information pursuant to the annual reporting requirements for Chino Basin for water year 2016 (October 1, 2015 to September 30, 2016). The water year 2016 submittal is the second such submittal by the Watermaster to the California Department of Water Resources (DWR). The SGMA requires that the following six categories of data be submitted to the DWR by April 1 of each year: (A) groundwater elevation data, unless otherwise submitted pursuant to Section 10932¹; (B) annual aggregated data identifying total groundwater extractions for the preceding water year; (C) surface water supply used, or available for use, for groundwater recharge or in-lieu use; (D) total water use; (E) change in groundwater storage; and (F) the annual report submitted to the court.

The annual reporting data are submitted to the DWR using its Adjudicated Basin Annual Reporting System—a password-secured, online submission system accessible at <http://sgma.water.ca.gov/adjudbasins>. The DWR Adjudicated Basin Annual Reporting System facilitates the submission of all reporting requirements for adjudicated basins and consists of a standardized reporting template to enter all of the required information, including the ability to upload supporting documents and reports. The standardized reporting template includes sections to upload specific required information for reporting under the SGMA legislation, as well as for including optional information.

This memorandum describes all of the information that Wildermuth Environmental, Inc. (WEI) proposes to submit to the DWR using the Adjudicated Basin Annual Reporting System on behalf of the Watermaster to satisfy the water year 2016 reporting requirements for the Chino Basin.

¹ CWC Section 10932 requires reporting of groundwater levels for the California State Groundwater Elevation Monitoring (CASGEM) Program.

If the information and/or reports proposed for submittal to the DWR are not required, it is specified as such within this memorandum.

Water Data for Water Year 2016

The following Chino Basin water year 2016 data and digital documents will be submitted. The DWR Adjudicated Basin Annual Reporting System language is in ***bold italics*** and the information for submittal is shown in regular text. All volume data are reported in acre-feet (AF).

(A) Groundwater elevation data unless otherwise submitted pursuant to Section 10932.

Is water level data submitted to the CASGEM Program? Yes

Does the watermaster collect or receive additional groundwater levels? Yes

Does the watermaster measure groundwater levels? Yes

(B) Annual aggregated data identifying groundwater extraction for the preceding water year

Total Groundwater Extraction (AF): 149,730

Method used to determine extraction (if available):

The submittal of this information is optional; the following information will be submitted:

	<i>Volume (AF)</i>	<i>Explanation</i>
<i>Meters</i>	16,350	Agricultural production metered by Watermaster
<i>Land Use</i>	752	Agricultural Production estimated by Watermaster using the water duty method
<i>Reported by pumper</i>	132,363	Pumpers meter production and report the data to the Watermaster
<i>Other Method</i>	265	Agricultural production estimated by Watermaster – broken meter

Groundwater extraction by water use sector (if available):

The submittal of this information is optional; the following information will be submitted:

<i>Sector</i>	<i>Volume (AF)</i>	<i>Explanation</i>
<i>Urban</i>	129,472	Appropriative Pool (Pool 3)

<i>Sector</i>	<i>Volume (AF)</i>	<i>Explanation</i>
<i>Agricultural</i>	17,366	Agricultural Pool (Pool 1)
<i>Other Sector</i>	2,892	Non-Agricultural Pool (Pool 2)

(C) Surface water supply used for or available for use for groundwater recharge or in-lieu use.

Surface Water Supply (AF): 105,420

Method used to determine: The submittal of this information is optional; the following information will be submitted:

The value reported represents total surface water used for direct consumption and for groundwater recharge. Imported water and recycled water deliveries to recharge basins are metered and recorded daily. Storm water and urban runoff recharge volumes are measured by stage sensors in the recharge basins. Imported water, recycled water, and local surface water amounts used for direct consumption are provided by the individual parties in the Chino Basin. For parties that have service areas not entirely within the Chino Basin adjudicated boundary, the proportion of the surface water supply used for consumption inside the Chino Basin adjudicated boundary is not quantified. The portion of the reported volumes that were used for recharge, were recharged entirely within the Chino Basin adjudicated boundary.

Water available for recharge or in-lieu use by source type (if available):

The submittal of this information is optional; the following information will be submitted:

<i>Source Type</i>	<i>Volume (AF)</i>	<i>Explanation</i>
<i>Local Surface Deliveries</i>	19,305	This includes 7,571 AF of storm water and urban runoff for groundwater recharge, and 9,624 AF of native surface water for direct consumption.
<i>State Water Project Deliveries</i>	50,288	This includes zero AF for groundwater recharge, and 50,288 AF for direct consumption.
<i>Recycled Water</i>	35,828	This includes 14,086 acre-feet for groundwater recharge, and 21,742 AF for direct consumption.

(D) Total Water Use (report water use in the basin as data is available and/or as reported in the annual report)

Total Water Use (AF): 304,495

Method used to determine: The submittal of this information is optional; the following information will be submitted:

Total water use data includes water used for direct consumption and for groundwater recharge. Data were obtained from Watermaster records, and/or collected from the parties in the Chino Basin. The total water use represents the sum of total water use by parties to the Chino Basin judgment. Many of the Chino Basin appropriative pool parties have service areas that extend outside the Chino Basin adjudicated boundary. The proportion of the total water use for direct consumption that is used inside the Chino Basin adjudicated boundary is not quantified by Watermaster.

Total water use is reported using the pre-defined categories by the DWR under the **Water use met by source type below**, and is apportioned as follows: **Groundwater** is groundwater produced from Chino Basin and other basins used for direct use; **Surface water** is imported State Water Project water and native surface water used for direct use; **Recycled or reused water** is recycled water used for direct use; and **Other** is water used for groundwater recharge which includes storm water and urban runoff, imported State Water Project water, and recycled water.

Water Use met by source type:

The submittal of this information is optional; the following information will be submitted:

Type	Volume (AF)
Groundwater	199,075
Surface water	62,022
Recycled or reused water	21,742
Other	21,657

(E) Annual change in groundwater storage

Change in storage (AF): -2,000

Method used to determine: The submittal of this information is optional; the following information will be submitted:

The storage change over the period of October 1, 2015 through September 30, 2016 was estimated using the Chino Basin groundwater model, which was updated by extending the calibration period from July 1, 1960 through September 30, 2016. For context, the Chino Basin Judgment and Peace II Agreement contain Court-approved storage depletion provisions that would cause a change in storage over the period of October 1, 2015 through September 30, 2016 of about 19,500 AF. That is, the actual change in storage of -2,000 AF is less than the planned change in storage of - 19,500 AF.

The 19,500 AF of planned storage decline is intended to be composed of 5,000 AF of court approved overdraft from the original Judgment and the remainder is from court ordered overdraft to achieve hydraulic control.

Time period for change: **Start date:** 10/1/2015 **End date:** 9/30/2016

(F) The annual report submitted to the court

Start date: 7/1/2014 **End date:** 6/30/2015

Please submit an electronic (PDF preferred) copy of your annual report:

Watermaster published two Annual Reports since the last the SGMA annual reporting requirements for the Chino Basin were submitted on April 1, 2016. The Chino Basin Watermaster Annual Reports for fiscal year 2013/2014 and 2014/2015 are submitted herein. Subsequent Annual Reports will be submitted for succeeding April 1 annual reporting requirements as they are completed.

Please submit additional reports or documents:

The submittal of this information is optional; this memorandum will be submitted herein. Additional Chino Basin Watermaster engineering and legal reports are available for public download on Watermaster's website at www.cbwm.org