



## Memorandum

<b>To:</b>	<b>Chino Basin Watermaster</b>
<b>From:</b>	<b>Wildermuth Environmental</b>
<b>Date:</b>	<b>March 4, 2019</b>
<b>Subject:</b>	<b>Chino Basin Watermaster submittal of the water year 2018 reporting requirements for adjudicated basins pursuant to the Sustainable Groundwater Management Act</b>

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 2018 (October 1, 2017 to September 30, 2018). The water year 2018 submittal is the fourth 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 10932<sup>1</sup>; (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 pursuant to the SGMA legislation, 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 sections 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 2018 reporting requirements for the Chino Basin.

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<sup>1</sup> 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 2018

The following Chino Basin water year 2018 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):*** 141,563

***Groundwater extraction by water use sector (if available):***

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

<b><i>Sector</i></b>	<b><i>Volume (AF)</i></b>	<b><i>Explanation</i></b>
<b><i>Urban</i></b>	121,218	Appropriative Pool (Pool 3)
<b><i>Agricultural</i></b>	17,849	Agricultural Pool (Pool 1)
<b><i>Other Sector</i></b>	2,496	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):*** 154,413

***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>	16,517	This includes 4,342 AF of storm water and urban runoff for groundwater recharge, and 12,175 AF of native surface water for direct consumption.
<i>State Water Project Deliveries</i>	100,505	This includes 17,953 AF for groundwater recharge, and 82,552AF for direct consumption.
<i>Recycled Water</i>	37,391	This includes 13,900 AF for groundwater recharge, and 23,491 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):** 340,699

**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	186,285
Surface water	94,727
Recycled or reused water	23,491
Other	36,195

**(E) Annual change in groundwater storage**

**Change in storage (AF):** 22,400

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

The change in storage over the period of October 1, 2017 through September 30, 2018 was estimated using the Chino Basin groundwater model, which was updated by extending the calibration period from July 1, 1960 through September 30, 2018.

**Time period for change: Start date:** 10/1/2017 **End date:** 9/30/2018

**(F) The annual report submitted to the court**

**Start date:** 7/1/2017 **End date:** 6/30/2018

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

Watermaster published the Annual Report for fiscal year 2017/2018 since the last the SGMA annual reporting requirements for the Chino Basin were submitted on April 1, 2018. The Chino Basin Watermaster 41<sup>st</sup> Annual Report for fiscal year 2017/2018 is submitted herein.

**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](http://www.cbwm.org)