



CITY OF STOCKTON

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May 6, 2016

WDR Order No. R5-2014-0071-02

Permit Number: CA0079138

Via eMail to:

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Central Valley Region
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CITY OF STOCKTON REGIONAL WASTEWATER CONTROL FACILITY (NPDES PERMIT ORDER NO. R5-2014-0070), SALINITY POLLUTION PREVENTION PLAN ANNUAL PROGRESS REPORT

In accordance with the City of Stockton (City) Regional Wastewater Control Facility (RWCF) National Pollutant Discharge Elimination System (NPDES) permit No. CA0079138, Order No. R5-2014-0070-02 adopted by the Central Valley Regional Water Quality Control Board (Central Valley Water Board) on June 6, 2014 and amended on October 9, 2014 and December 11, 2015, we submit this Annual Progress Report for the Pollution Prevention Plan (PPP) for Salinity, due June 1 annually, per Monitoring Reporting Program Table E-12.

In 2015, the City prepared and submitted to the Central Valley Water Board an updated Salinity PPP, which identified the current sources of salinity-related constituents to the RWCF, evaluated source control methods, and provided a plan for implementation and monitoring. Controlling industrial sources and RWCF chemical additions were identified as the most feasible opportunities to control salinity in the RWCF effluent discharge. The City continues to control industrial sources of salinity loading to the RWCF through its Industrial Pretreatment Program and the issuance of TDS limits in industrial permits. Regarding chemical additions at the RWCF, the City is in the process of selecting a design-build firm to implement RWCF treatment processes that will meet current and future anticipated regulatory requirements. Chemical additions that affect salinity in the RWCF discharge will be addressed through this design process.

The RWCF effluent discharge continues to maintain compliance with the NPDES permit limitation for EC. The permit limitation is 1,300 $\mu\text{mhos/cm}$, as a calendar year average. Figure 1 shows that the calendar year average for year 2015 was 1,127 $\mu\text{mhos/cm}$.

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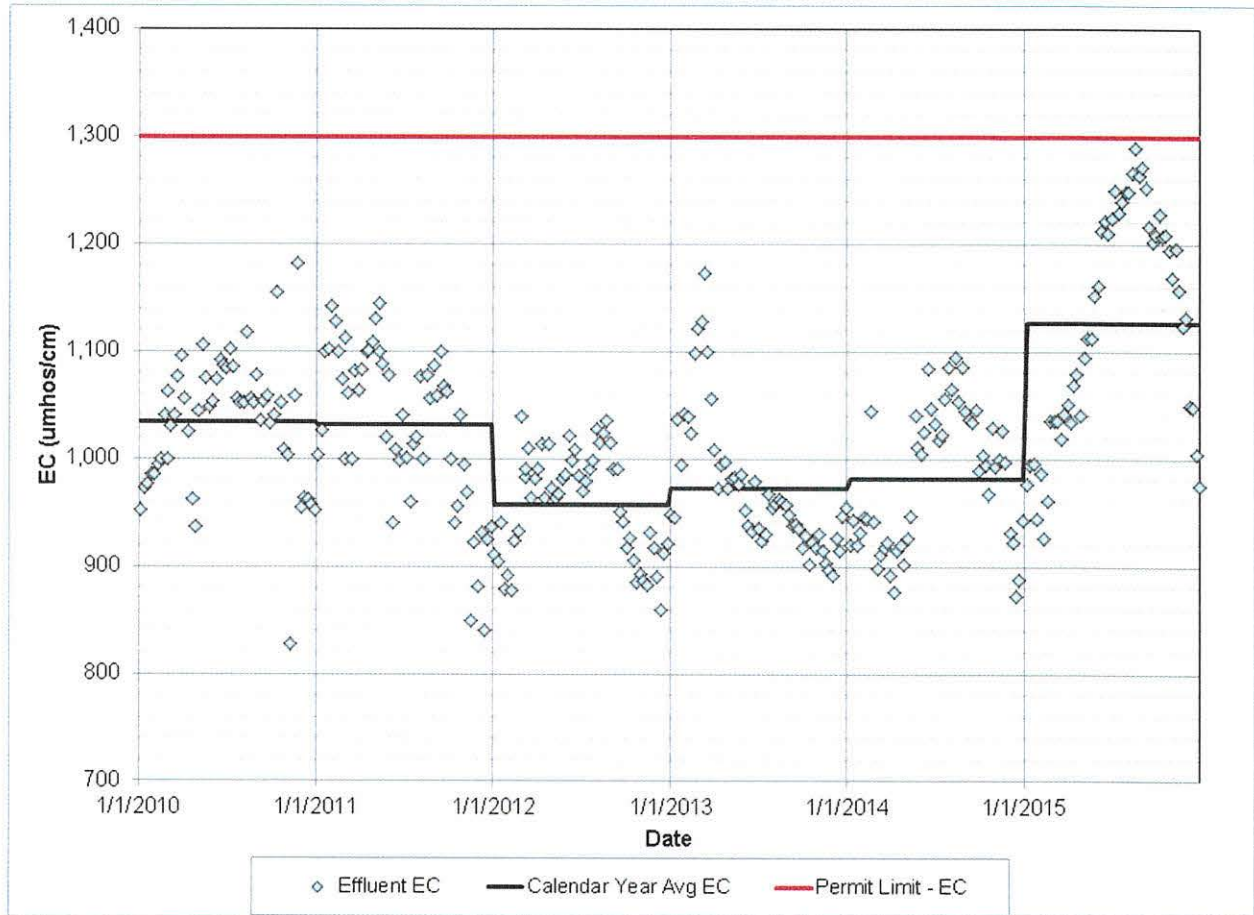


Figure 1. EC levels in the RWCF effluent and weighted average City of Stockton water supply for the period of January 1, 2010, through December 31, 2015.

Figure 1 shows a 145 µmhos/cm annual average increase in RWCF effluent EC in 2015 relative to 2014. As described in the 2015 PPP for salinity, the City's water supplies are a contributing source of EC to the RWCF effluent. The City's water supplies come from multiple groundwater and surface water sources, including surface water from the Delta treated at the City's Delta Water Treatment Plant (DWTP). When the DWTP came online in May 2012, it provided the City with a lower salinity water supply compared to the groundwater sources previously relied upon to meet the City's potable water demand. This is reflected in the lower effluent EC in 2012, 2013, and 2014, relative to prior years, shown in Figure 1. However, the weighted average water supply EC increased substantially in 2015 relative to 2014. In 2015, the average weighted water supply EC was 331 µmhos/cm, a 141 µmhos/cm increase over the 2014 average weighted water supply, which has a direct correlation to the increase in effluent EC. The increase in weighted average water supply EC is attributable to higher Delta water

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supply EC, particularly during the months of March through July and in October of 2015, when compared to 2014, as shown in Table 1. This is not a controllable source of salinity to the RWCF. Because the RWCF discharge has been in compliance with the NPDES permit effluent limitation for EC, no additional actions to control salinity are proposed at this time.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	547	675	251	77	73	70	74	78	74	78	702	393
2015	472	614	548	528	583	357	314	71	72	330	390	366

I certify under penalty of law that this document and all attachments were prepared under my direction of supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Please do not hesitate to contact me at 209.937.8700 if you have any questions regarding this submittal.



ROBERT L. GRANBERG, P.E.
ACTING DIRECTOR OF MUNICIPAL UTILITIES

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