

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL VALLEY REGION

ORDER R5-2015-0111

AMENDING TIME SCHEDULE ORDER R5-2014-0034

CITY OF ALTURAS  
ALTURAS WASTEWATER TREATMENT PLANT  
MODOC COUNTY

The Central Valley Regional Water Quality Control Board (Central Valley Water Board or Board) finds:

1. The City of Alturas (hereinafter Discharger) located in Modoc County provides sewerage service and serves a population of approximately 3,000.
2. On 22 September 2006, the Central Valley Water Board adopted Waste Discharge Requirements (WDRs) Order R5-2006-0103, NPDES Permit No. CA0078921, prescribing waste discharge requirements for the Discharger at the Alturas Wastewater Treatment Plant (hereafter Facility), in Modoc County.
3. WDRs Order R5-2006-0103 included, in part, final effluent limitations for total recoverable copper and zinc that became effective 18 May 2010. A compliance schedule included interim milestones for coming into compliance with the final effluent limits for total recoverable copper and zinc by 18 May 2010.
4. The Discharger began construction of Facility improvements in 2006 that were completed in 2008 to improve discharge quality and achieve full compliance WDRs Order R5-2006-0103. Improvements included headworks upgrades, primary clarification improvements, an additional secondary clarifier, expanded chlorine contact chamber capacity, new lined sludge drying beds, new and upgraded trickling filter media, new pumping and flow control upgrades, and a new operations building. Significant non-compliance with copper and zinc limitations persisted post Facility improvements. In 2008, the Discharger completed a site-specific translator study that indicated additional measures were necessary to achieve full compliance with final effluent limitations for copper and zinc. In October 2009, the Discharger initiated an Interim Operations Plan (IOP) that included new use of coagulants and improved hydraulics control to increase removal efficiency of copper and zinc. The IOP demonstrated improved discharge quality and significantly reduced the frequency of effluent limitation violations. Despite these efforts, the Discharger was still not able to consistently comply with final effluent limitations for copper and zinc by 18 May 2010. On 1 January 2010, the Discharger requested additional time to achieve compliance.

5. On 27 May 2010, the Central Valley Water Board adopted Time Schedule Order (TSO) R5-2010-0905 that contained interim effluent limits and a five year time schedule that required compliance with final effluent limitations for total recoverable copper and zinc by 27 May 2015.
6. On 27 March 2014, the Central Valley Water Board adopted WDRs Order R5-2014-0033 rescinding WDRs Order R5-2006-0103 and prescribing new WDRs for the Facility that became effective on 1 May 2014.
7. On 27 March 2014, the Central Valley Water Board also adopted TSO R5-2014-0034 that replaced TSO R5-2010-0905. The new TSO maintained the time schedule for compliance with final effluent limitations for copper and zinc by 27 May 2015, and included additional interim effluent limits and a time schedule requiring compliance with final effluent limitations for total coliform organisms by 27 March 2019.
8. On 4 May 2015, the Discharger submitted a letter that requested additional time beyond that provided in TSO R5-2014-0034 to complete Facility improvements necessary to demonstrate compliance with final effluent limitations for copper and zinc. The letter included justification for requesting additional time to comply, presented historical measures taken by the Discharger since 2007, provided an update on the economically prohibitive IOP, and outlined planned future actions. As the IOP is not economically sustainable, the Discharger has considered alternative Facility improvement projects, identified available land for Facility expansion (including right-of-ways), and pursued available financing options in an effort to identify viable improvements for a long term solution. Additional time is required for the Discharger to construct improvements necessary to comply with final effluent limitations for copper and zinc.
9. The Discharger plans to construct Facility improvements necessary to convert from a discharge of secondary treated and disinfected effluent to the Pit River to a land-based disposal. The conversion would result in the rescission of the Discharger's existing National Pollutant Discharge Elimination System (NPDES) permit for discharges to surface waters and would require the Discharger to obtain Waste Discharge Requirements (WDRs) for a discharge to land.
10. Immediate compliance with final effluent limitations for copper and zinc by 27 May 2015 is not possible or practicable. This Order amends TSO R5-2014-0034 by reassessing appropriate interim effluent limitations and extends the time schedule for an additional five years to achieve full compliance with final effluent limitations for copper and zinc by 18 May 2020.

11. In accordance with CWC section 13385(j)(3)(C)(ii)(II) and following a public hearing, the Central Valley Water Board may extend the time schedule for copper and zinc for up to an additional five years.
12. Since the time schedule for completion of actions necessary to bring the waste discharge into compliance exceeds one year, the compliance time schedule included in Attachment 1 of this Order, that amends TSO No. R5-2014-0034, includes interim requirements and dates for achievement for copper and zinc.
13. This Order amends TSO R5-2014-0034 to include new plant performance data for total coliform organisms, copper, and zinc not available at the time of adoption of TSO R5-2014-0034. The interim effluent limits have been revised based on effluent data collected between January 2009 and March 2015.
14. Issuance of this Order is exempt from the provisions of the California Environmental Quality Act (Pub. Resources Code, § 21000, et seq.)(CEQA), pursuant to Cal. Wat. Code § 13389, since the adoption or modification of a NPDES permit for an existing source is statutorily exempt and this Order only serves to implement a NPDES permit (*Pacific Water Conditioning Ass'n, Inc. v. City Council of City of Riverside* (1977) 73 Cal.App.3d 546, 555-556.). Issuance of this Order is also exempt from CEQA pursuant to California Code of Regulations, title 14, § 15321(a)(2).
15. The Central Valley Water Board has notified the Discharger and interested agencies and persons of its intent to amend TSO No. R5-2014-0033 for this discharge and has provided them with an opportunity to submit their written views and recommendations.

**IT IS HEREBY ORDERED THAT** TSO No. R5-2014-0034 is amended as shown in underline/strikeout format in Attachment 1 to this Order.

Any person aggrieved by this action of the Central Valley Water Board may petition the State Water Board to review the action in accordance with Water Code section 13320 and California Code of Regulations, title 23, sections 2050 and following. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date of this Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at:

[http://www.waterboards.ca.gov/public\\_notices/petitions/water\\_quality](http://www.waterboards.ca.gov/public_notices/petitions/water_quality)

or will be provided upon request.

ORDER NO. R5-2015-0111  
CITY OF ALTURAS  
ALTURAS WASTEWATER TREATMENT PLANT  
MODOC COUNTY

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I, PAMELA C. CREEDON, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Central Valley Region, on 18 August 2015.

***Original Signed By***

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PAMELA C. CREEDON, Executive Officer

## ATTACHMENT 1

### CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD CENTRAL VALLEY REGION

#### TIME SCHEDULE ORDER R5-2014-0034-01 (AS AMENDED BY ORDER NO. R5-2015-0111)

#### REQUIRING THE CITY OF ALTURAS WASTEWATER TREATMENT PLANT MODOC COUNTY

#### TO COMPLY WITH REQUIREMENTS PRESCRIBED IN ORDER R5-2014-0033 (NPDES PERMIT NO. CA0078921)

The California Regional Water Quality Control Board, Central Valley Region, (hereinafter Central Valley Water Board) finds that:

1. On 22 September 2006 the Central Valley Water Board adopted Waste Discharge Requirements (WDRs) Order R5-2006-0103 (NPDES Permit No. CA0078921) prescribing WDRs for the City of Alturas (hereinafter Discharger) at the Alturas Wastewater Treatment Plant (hereafter Facility), Modoc County.
2. WDR Order R5-2006-0103 contained new copper and zinc effluent limits based on the implementation of the California Toxics Rule, which were not prescribed in the previous WDR Order 5-00-123, that the Discharger could not immediately meet. Because the Discharger could not immediately meet the new effluent limitations, WDR Order R5-2006-0103 also contained interim limits for copper and zinc with a final compliance date of 18~~0~~-May-2010.
3. The Discharger upgraded several processes at the Facility and added others to meet the requirements imposed by various effluent limitations (TSS and BOD removal, total coliform effluent limitations, etc.). Some of the improvements did not operate properly and the Facility was in significant non-compliance with WDR Order R5-2006-0103 from July 2008 through September 2009. The Discharger initiated an Interim Operations Plan (IOP) in October 2009 which significantly reduced the frequency of effluent limitation violations.
4. Although the Discharger can reliably meet most effluent limits in Order R5-2006-0103 ~~effluent limitations~~ using the IOP procedures, the Discharger continued to be unable to meet the final copper and zinc effluent limits in WDR Order R5-2006-0103.
5. On 27 May 2010 the Central Valley Water Board issued Time Schedule Order (TSO) R5-2010-0905 to the Discharger setting new interim copper and zinc limits for the discharge. The TSO required ~~s~~ final compliance by 27 May 2015.
- 5.6. On 27 October 2010, the Discharger submitted a proposal to come into compliance with final copper and zinc effluent limitations as required by TSO R5-2010-0905. The proposal also contained long-term solutions for compliance with all effluent limitations in WDR Order R5-2006-0103. Central Valley Water Board staff commented on the plan on

7 December 2010 and requested a revised plan by 30 January 2011. The Discharger requested an extension to that date to 28 February 2011. The Discharger submitted a final work plan on 28 February 2011 which proposed a long term solution to wastewater treatment through land discharge of the effluent and elimination of all surface water discharge.

~~6.7.~~ On 27 March 2014 the Central Valley Water Board adopted WDR Order R5-2014-0033 (NPDES Permit No. CA0078921) and rescinded WDR Order R5-2006-0103. As TSO R5-2010-0905 referenced ~~s~~ WDR Order R5-2006-0103, the TSO ~~must be~~ was updated or replaced to remain valid. ~~This TSO R5-2014-0034 replaces~~ TSO R5-2010-0905 to include reference to the updated WDR but ~~keeps the~~ keeps kept the copper and zinc compliance schedule ~~in from~~ the previous TSO R5-2010-0905.

~~7.8.~~ WDR Order R5-2014-0033 contains Final Effluent Limitations IV.A.1.a., which reads, in part, as follows:

Parameter	Units	Effluent Limitations				
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Total Coliform Organisms – <i>Applicable when &lt;20:1 dilution is available</i>	MPN/100 mL	--	2.2 <sup>1</sup>	23 <sup>2</sup>	--	240
Copper, Total Recoverable	µg/L	3.7	--	7.6	--	--
Zinc, Total Recoverable	µg/L	13	--	21	--	--

<sup>1</sup> Applied as a 7-day median effluent limitation.

<sup>2</sup> Total coliform organisms shall not exceed more than once in any 30-day period.

~~8.9.~~ The effluent limitations specified in WDRs Order R5-2014-0033 for copper and zinc are more stringent than those prescribed in the previous WDR Order R5-2006-0103 and based on the California Toxics Rule and the Water Quality Control Plan, Fourth Edition, for the Sacramento and San Joaquin River Basins (Basin Plan) water quality objectives for protection of aquatic life promulgated by the California Toxics Rule. The total coliform effluent limitations are based on guidance from the California Department of Public Health.

~~9.10.~~ Federal regulations, 40 CFR 122.44 (d)(1)(i), require that NPDES permit effluent limitations must control all pollutants which are or may be discharged at a level which will cause or have the reasonable potential to cause or contribute to an in-stream excursion above any State water quality standard, including any narrative criteria for water quality. Beneficial uses, together with their corresponding water quality objectives or promulgated water quality criteria, can be defined per federal regulations as water quality standards.

~~10.11.~~ Immediate compliance with the final effluent limitations contained in WDR Order R5-2014-0033 for copper, zinc, and total coliform at Discharge Point No. 001 is not possible.

11. ~~On 27 October 2010, the Discharger submitted a proposal to come into compliance with final copper and zinc effluent limitations as required by TSO R5-2010-0905. The proposal also contained long term solutions for compliance with all effluent limitations in WDR Order R5-2006-0103. Central Valley Water Board staff commented on the plan on 7 December 2010 and requested a revised plan by 30 January 2011. The Discharger requested an extension to that date to 28 February 2011. The Discharger submitted a final work plan on 28 February 2011 which proposed a long term solution to wastewater treatment through land discharge of the effluent and elimination of all surface water discharge.~~
12. Elimination of surface water discharges from the facility will resolve potential total coliform effluent limitation violations in addition to resolving potential copper and zinc effluent limitations violations. If the surface water discharge cannot be eliminated, then the Discharger would complete upgrades sufficient to comply with the final effluent limits, or conduct studies sufficient to justify alternate final effluent limits. The Clean Water Act and the Water Code authorize time schedules for achieving compliance. The following table summarizes the effluent monitoring data obtained from ~~January 2009 to March 2015~~ for copper, zinc, and ~~January 2008 to May 2011~~ for total coliform organisms:

Parameter	Units	MEC	Mean	# of Samples	# of Non-Detects
Copper, Total	µg/L	31.2	8.814	3243	0
Zinc, Total	µg/L	63.6	28.723.5	3243	0
Total Coliform Organisms	MPN/100 ml	24194600	2896 (123 <sup>1</sup> )	346467	16348

<sup>1</sup> Median value.

13. For compliance with the final effluent limitations for copper, zinc, and total coliform, the Discharger requires additional time to install new facilities to eliminate the discharge to surface waters. If the surface water discharge cannot be eliminated, then the Discharger would complete upgrades sufficient to comply with the final effluent limits, or conduct studies sufficient to justify alternate final effluent limits. Necessary activities include engineering feasibility and design studies, environmental documentation if required, permitting, and financing. Should studies show that elimination of the surface water discharge is infeasible or impermissible, alternative treatment and environmental studies will be necessary to achieve compliance.
14. This Order provides a time schedule for the Discharger to develop, submit and implement methods of compliance, implement the pollution prevention plan, and construct the necessary treatment plant upgrades to meet the final effluent limitations.

**Need for Time Schedule Extension and Legal Basis**

15. On 4 May 2015, the Discharger submitted a letter that requested additional time beyond that provided with the adoption of the TSO on 27 March 2014 to complete Facility improvements necessary to demonstrate compliance with final effluent limitations. The letter included justification for requesting additional time to comply, presented historical measures taken by the Discharger since 2006, provided an update on the economically prohibitive IOP, and outlined planned future actions. The Discharger began construction of Facility improvements in 2006 that were completed in 2008 to improve discharge quality

and achieve full compliance WDR Order R5-2006-0103. Improvements included headworks upgrades, primary clarification improvements, an additional secondary clarifier, expanded chlorine contact chamber capacity, new lined sludge drying beds, new and upgraded trickling filter media, new pumping and flow control upgrades, and a new operations building. Significant non-compliance with copper and zinc limitations persisted post Facility improvements. In 2008, the Discharger completed a site-specific translator study that indicated additional measures were necessary to achieve full compliance with final effluent limitations for copper and zinc. In October 2009, the Discharger initiated an Interim Operations Plan (IOP) that included new use of coagulants and improved hydraulics control to increase removal efficiency of copper and zinc. The IOP demonstrated improved discharge quality and significantly reduced the frequency of effluent limitation violations. Despite these efforts, the Discharger was still not able to consistently comply with final effluent limitations for copper and zinc by 18 May 2010. Since October 2009, the Discharger has continued to implement an economically prohibitive Interim Operations Plan (IOP) to improve discharge quality from the Facility. As the IOP is not economically sustainable, the Discharger has considered alternative Facility improvement projects, identified available land for Facility expansion (including right-of-ways), and pursued available financing options in an effort to identify a viable long term final land disposal solution. Additional time is required for the Discharger to construct new improvements for final land disposal necessary to comply with final effluent limitations.

16. The Discharger plans to construct Facility improvements necessary to convert from a discharge of secondary treated and disinfected effluent to the Pit River to a land-based disposal. The conversion would result in the rescission of the Discharger's existing National Pollutant Discharge Elimination System (NPDES) permit for discharges to surface waters and would require the Discharger to obtain Waste Discharge Requirements for a discharge to land.
17. Immediate compliance with final effluent limitations for copper and zinc by 27 May 2015 is not possible or practicable. In accordance with CWC section 13300 and section 13385(j)(3), if the Discharger is making diligent progress, the Central Valley Water Board may extend a time schedule for the Discharger to construct the necessary treatment plant upgrades to meet the final effluent limitations.

### **Mandatory Minimum Penalties**

45-18. Water Code section 13300 states:

Whenever a regional board finds that a discharge of waste is taking place or threatening to take place that violates or will violate requirements prescribed by the regional board ... the board may require the discharger to submit for approval of the board, with such modifications as it may deem necessary, a detailed time schedule of specific actions the discharger shall take in order to correct or prevent a violation of requirements.

46-19. Water Code subsections 13385(h) and (i) require the Central Valley Water Board to impose mandatory minimum penalties (MMPs) upon dischargers that violate certain effluent limitations. Water Code section 13385(j)(3) provides protection from mandatory minimum penalties for violations of an effluent limitation when:

... the waste discharge is in compliance with either a cease and desist order issued pursuant to section 13301 or a time schedule order issued pursuant to section 13300 or 13308, if all of the following requirements are met:

(A) The cease and desist order or time schedule is issued on or after July 1, 2000, and specifies the actions that the discharger is required to take in order to correct the violations that would otherwise be subject to subdivisions (h) and (i).

(B) The regional board finds that, for one of the following reasons, the discharger is not able to consistently comply with one or more of the effluent limitations established in the waste discharge requirements applicable to the waste discharge:

(i) The effluent limitation is a new, more stringent, or modified regulatory requirement that has become applicable to the waste discharge after the effective date of the waste discharge requirements and after July 1, 2000, new or modified control measures are necessary in order to comply with the effluent limitation, and the new or modified control measures cannot be designed, installed, and put into operation within 30 calendar days.

...

(C) (i) The regional board establishes a time schedule for bringing the waste discharge into compliance with the effluent limitation that is as short as possible, taking into account the technological, operational, and economic factors that affect the design, development, and implementation of the control measures that are necessary to comply with the effluent limitation. Except as provided in clause (ii), for the purposes of this subdivision, the time schedule shall not exceed five years in length.

...

(ii) [Extended Time Schedule]

...

(II) Following a public hearing, and upon a showing that the discharge is making diligent progress toward bringing the waste discharge into compliance with the effluent limitation, the regional board may extend the time schedule for an additional period not exceeding five years in length, if the discharger demonstrates that the additional time is necessary to comply with the effluent limitation. The subclause does not apply to a time schedule described in subclause (I).

(iii) If the time schedule exceeds one year from the effective date of the order, the schedule shall include interim requirements and the dates for their achievement. The interim requirements shall include both of the following:

(I) Effluent limitations for the pollutant or pollutants of concern.

(II) Actions and milestones leading to compliance with the effluent limitation.

(D) The discharger has prepared and is implementing in a timely and proper manner, or is required by the regional board to prepare and implement, a pollution prevention plan pursuant to section 13263.3.

~~17-20.~~ Compliance with this Order exempts the Discharger from ~~MMPs mandatory minimum penalties~~ for violations of the final effluent limitations for copper, zinc, and total coliform in accordance with Water Code section 13385(j)(3). The time schedule order satisfies the provisions of Water Code section 13385(j)(3) as follows:

- 13385(j)(3)(A): This time schedule order is being issued after July 1, 2000, and specifies actions that the Discharger must take to correct the violations that would be subject to enforcement actions (see Compliance Time Schedule Table on Page 6).
- 13385(j)(3)(B)(i): This time schedule order includes new effluent limits that became effective after the July 1, 2000 date, and may require new or modified control measures in order to comply with the final effluent limits. The Discharger anticipates that it will take ~~at least~~ at least until 27 May 2015 to conduct the planning, funding, and construction improvements to the existing plant to meet the new final effluent limitations. Therefore the new modifications cannot be designed, installed, or put into operation within 30 calendar days.
- 13385(j)(3)(C)(i): The Discharger anticipates that it will take at least until 27 May 2015 to upgrade the existing plant to conduct the planning, funding, and construction improvements to the existing plant to meet the new final effluent limitations. To meet the new final effluent limitations, the Discharger is planning to construct artificial wetlands to dispose of the effluent. To meet the new final limitations, the Discharger will have to complete engineering studies, environmental and permitting documentation, and funding. Should the wetlands project prove infeasible, alternative methods of compliance will need to be investigated and evaluated. This timeframe is as short as possible, considering the major upgrades the plant will have to complete to meet the final effluent limitations.
- 13385(j)(3)(C)(ii)(II): On or after 27 May 2015, the time schedule may be extended for a period of not more than five additional years. The Central Valley Water Board finds, as described in previous findings in this Order, that the Discharger has demonstrated due diligence to bring the waste discharge into compliance with final effluent limitations for copper and zinc contained in WDR Order R5-2014-0033 through the following: continued implementation of the IOP, treatment system improvements completed to date, and improvement projects planning to convert the Facility from a surface water discharge to the Pitt River to land-based disposal. Furthermore, the Discharger has demonstrated that additional time is necessary to comply with the final effluent limitations for copper and zinc contained in WDR Order R5-2014-0033. This Order establishes a time schedule to bring the waste discharge into compliance with final effluent limitations that is as short as possible, taking into account technical, operational, and economic factors that affect design, development, and implementation of control measures that

are necessary to comply with the copper, zinc, and total coliform effluent limitations. This Order extends the time schedule requiring full compliance with final effluent limitations for copper and zinc and this Order has been considered at a public hearing.

- 13385(j)(3)(C)(iii)(I): This time schedule order contains interim effluent limits for the constituents of concern which are copper, zinc, and total coliform.
- 13385(j)(3)(C)(iii)(II): This time schedule order contains milestones and actions which lead to compliance with the final effluent limitations (See the Compliance Time Schedule Table on Page 6).
- 13385(j)(3)(D): The Discharger submitted and implemented in a timely and proper manner a pollution prevention plan to reduce the effluent concentrations of copper and zinc. This order does not require re-submittal of a pollution prevention plan for copper and zinc. A pollution prevention plan for total coliform is required six months from the date of adoption of this order.~~The IOP submitted for compliance issues with the facility upgrade contained methods that minimize total coliform discharges.~~

~~18-21.~~ Since the time schedules for completion of actions necessary to bring the waste discharge into compliance exceeds 1 year, this Order includes interim requirements and dates for achievement. The time schedule does not exceed 5 years.

22. In accordance with the *Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries* (SIP), the CTR-based final effluent limitations for copper and zinc newly implemented in WDR Order R5-2006-0103 became applicable to the waste discharge on the effective date of 18 May 2010. In accordance with CWC section 13385(j)(3)(C), a time schedule may provide protection from MMPs for violations of final effluent limitations for a maximum total length of time not to exceed ten years from the effective date (i.e., 18 May 2020). TSO R5-2010-0905 issued on 27 May 2010 required compliance with final effluent limitations for copper and zinc by 27 May 2015. On 27 March 2010, TSO R5-2014-0034 replaced TSO R5-2010-0905. TSO R5-2014-0034 maintained the same compliance schedule for copper and zinc, providing protection from MMPs for final copper and zinc effluent limitation violations until 27 May 2015, and provided protection from MMPs for final total coliform effluent limitation violations until 27 March 2019. Additional protection from MMPs for final copper and zinc effluent limitations violations is provided from the date this amended TSO is adopted until 18 May 2020.

~~19-23.~~ The compliance time schedule in this Order includes interim performance-based effluent limitations for copper and zinc. Interim effluent limitations consist of a maximum daily and average monthly effluent concentration derived using sample data provided by the Discharger demonstrating actual treatment plant performance. The method to set interim effluent limitations depends on the number of sample data.

- a. **10 or more data points.** In developing the interim limitations, when there are 10 sampling data points or more, sampling and laboratory variability is accounted for by establishing interim limits that are based on normally distributed data where

99.9% of the data points will lie within 3.3 standard deviations of the mean (Basic Statistical Methods for Engineers and Scientists, Kennedy and Neville, Harper and Row, 3<sup>rd</sup> Edition, January 1986). Where actual sampling shows an exceedance of the proposed 3.3 standard deviation limit, the maximum effluent concentration (MEC) has been established as the interim limitation.

- b. **Less than 10 data points.** When there are less than 10 sampling data points available, the *Technical Support Document for Water Quality-Based Toxics Control* (EPA/505/2-90-001) (TSD) recommends a coefficient of variation of 0.6 be utilized as representative of wastewater effluent sampling. The TSD recognizes that a minimum of 10 data points is necessary to conduct a valid statistical analysis. The multipliers contained in Table 5-2 of the TSD are used to determine a daily limitation based on a long-term average objective. In this case, the long-term average objective is to maintain, at a minimum, the current plant performance level. Thus, when there are less than 10 sampling points for a constituent, interim limitations are based on 3.11 times the MEC to obtain the daily interim limitation (TSD, Table 5-2) and 2.13 times the MEC to obtain the average monthly interim limitation (assuming one sample per month). If the statistically projected interim limitation is less than the MEC, the interim limitation is established as the MEC.

The following table summarizes the calculation of the interim effluent limitations for copper and zinc (note: copper and zinc calculations are carried over from previous TSO for consistency and differ slightly from the values in paragraph 12). Daily and monthly average effluent data for each constituent were the same values therefore the interim maximum daily and average monthly effluent limitations for each constituent are equal:

Parameter	Units	MEC	Mean	Standard Deviation	Number of Samples with Detections	Interim Limitation (Maximum Daily)	Interim Limitation (Average Monthly)
Copper, Total Recoverable	µg/L	<del>31.28</del> 4	<del>8.841</del> .0	<del>5.940</del> 2	<del>323</del> 5	<del>31.28</del> .4	<del>31.28</del> .4
Zinc, Total Recoverable	µg/L	63.6	<del>28.747</del> 4	<del>10.48</del> .08	<del>323</del> 5	<del>63.673</del> .8	<del>63.673</del> .8

~~20-24.~~ Total coliform organisms limits are not based on normally distributed data and the limit-setting procedures described above do not apply. The interim limit for Total coliform organisms is set to the R5-2006-0103 permit limit applicable prior to 15 November 2008 (the date the Facility upgrade was scheduled to be complete). This is a limit that the Discharger has regularly met and is therefore operationally attainable.

The following table summarizes the interim Total coliform organisms limits. Data is from the period 1 ~~January~~ November 2009 through 31 ~~March~~ January 2015~~2~~. The IOP was implemented in October 2009 to help failures in the Facility upgrade. Maximum effluent concentration, mean, median, and standard deviation values are included for reference but were not used in calculating the limits.

Parameter	Units	MEC	Mean (Median)	Standard Deviation	Number of Samples with Detections	Interim Limitation (7 day median)	Interim Limitation (Maximum Daily)
Total Coliform Organisms <sup>1</sup>	MPN/100 mL	<del>2419263</del>	17 (ND)	<del>143.554</del>	<del>18344</del>	23	500

24-25. The Central Valley Water Board finds that the Discharger can maintain compliance with the interim limitations included in this Order. Interim limitations are established when compliance with the final effluent limitations cannot be achieved by the existing discharge. Discharge of constituents in concentrations in excess of the final effluent limitations, but in compliance with the interim effluent limitations, can significantly degrade water quality and adversely affect the beneficial uses of the receiving stream on a long-term basis. The interim limitations, however, establish an enforceable ceiling concentration until compliance with the effluent limitations can be achieved.

22-26. On 27 March 2014, in Rancho Cordova, California, after due notice to the Discharger and all other affected persons, the Central Valley Water Board conducted a public hearing at which evidence was received to consider a Time Schedule Order under Water Code section 13300 to establish a time schedule to achieve compliance with waste discharge requirements.

27. On 14 July 2015 Central Valley Water Board staff issued a notice of public hearing and provided a 30-day comment period for proposed amendments to Time Schedule Order R5-2014-0034. The notice stated that any member of the public may request an oral hearing before the Executive Officer, and if no hearing is requested, the Executive Officer's review of the administrative record, including any written comments received shall constitute the public hearing.

28. No public comments were received. Pursuant to the authority delegated to the Executive Officer in Resolution R5-2009-0114, the Executive Officer may issue or modify time schedule orders rather than hold a hearing before the Central Valley Water Board.

23-29. Issuance of this Order is exempt from the provisions of the California Environmental Quality Act (Pub. Resources Code, § 21000 et seq.) ("CEQA") pursuant to Water Code section 13389, since the adoption or modification of a NPDES permit for an existing source is statutorily exempt and this Order only serves to implement a NPDES permit (*Pacific Water Conditioning Ass'n, Inc. v. City Council of City of Riverside* (1977) 73 Cal.App.3d 546, 555-556.).

24-30. In the event the selected alternative requires additional review under CEQA, the Discharger shall conduct required review and obtain appropriate approval prior to initiating construction.

**IT IS HEREBY ORDERED THAT:**

1. The Discharger shall comply with the following time schedule to ensure compliance with the final effluent limitations for copper, zinc, and total coliform contained in WDRs Order R5-2014-0033, as described in the above Findings:

**COMPLIANCE TIME SCHEDULE TABLE**

<b>Task</b>	<b>Compliance Date</b>
Submit and implement a Pollution Prevention Plan (PPP) <sup>1</sup> pursuant to Water Code section 13263.3 for total coliform.	6 Months after Adoption Date of this Order
Submit Initial Workplan for actions to achieve compliance with the total coliform limitation.	6 Months after Adoption Date of this Order
Submit Annual Progress Reports <sup>2</sup>	1 December, annually thereafter
Achieve compliance with copper and zinc final effluent limits.	<del>1827</del> May <del>2020</del> 15
Submit Method of Compliance project for total coliform	1 October 2015
Begin Compliance Project for total coliform	1 July 2017
Achieve compliance with final total coliform effluent limit.	<del>27 March 2019</del> five years after Adoption Date of this Order

<sup>1</sup> The Discharger shall implement a new Pollution Prevention Plan (PPP) for total coliform and shall meet the requirements specified in Water Code section 13263.3.

<sup>2</sup> The progress reports for copper, zinc, and total coliform shall detail what steps have been implemented towards achieving compliance with waste discharge requirements, including studies, construction progress, evaluation of measures implemented, and recommendations for additional measures as necessary to achieve full compliance by the final date.

2. The following interim maximum daily, average monthly, and 7-day median effluent limitations shall be effective immediately in lieu of the final effluent limitations for copper, zinc, and total coliform contained in WDRs Order R5-2014-0033. The final effluent limitations at Discharge Point No. 001 for copper and zinc contained in WDRs Order R5-2014-0033 shall become effective **1827 May 202015**, or when the Discharger is able to come into compliance, whichever is sooner. The final effluent limitations at Discharge Point No. 001 for total coliform organisms shall become effective **27 March 2019** ~~five years after Adoption Date of this Order~~.

<b>Parameter</b>	<b>Units</b>	<b>Interim Effluent Limitations</b>	
Copper, Total Recoverable	µg/L	<del>3138.4</del> Daily Maximum	<del>3138.4</del> Average Monthly
Zinc, Total Recoverable	µg/L	<del>6473.8</del> Daily Maximum	<del>6473.8</del> Average Monthly
Total Coliform	MPN/100 mL	500 Daily Maximum	23 7-Day Median

3. For the compliance schedule required by this Order, the Discharger shall submit to the Central Valley Water Board on or before the compliance report due date, the specified document or, if appropriate, a written report detailing compliance or noncompliance with the specific schedule date and task. If noncompliance is being reported, the reasons for such noncompliance shall be stated, and shall include an estimate of the date when the Discharger will be in compliance. The Discharger shall notify the Central Valley Water Board by letter when it returns to compliance with the time schedule.

4. If, in the opinion of the Executive Officer, the Discharger fails to comply with the provisions of this Order, the Executive Officer may refer this matter to the Attorney General for judicial enforcement, may issue a complaint for administrative civil liability, or may take other enforcement actions. Failure to comply with this Order may result in the assessment of Administrative Civil Liability of up to \$10,000 per violation, per day, depending on the violation, pursuant to the Water Code, including sections 13268, 13350 and 13385. The Central Valley Water Board reserves its right to take any enforcement actions authorized by law.

Any person aggrieved by this action of the Central Valley Water Board may petition the State Water Board to review the action in accordance with Water Code section 13320 and California Code of Regulations, title 23, sections 2050 and following. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date of this Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at:

[http://www.waterboards.ca.gov/public\\_notices/petitions/water\\_quality](http://www.waterboards.ca.gov/public_notices/petitions/water_quality)

or will be provided upon request.

I, PAMELA C. CREEDON, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Central Valley Region, on 27 March 2014, and amended by Order R5-2015-0111 on 18 August 2015.

***Original Signed By***

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PAMELA C. CREEDON, Executive Officer