

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION**

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**ORDER R4-2014-XXXX
NPDES NO. CA0056294**

**WASTE DISCHARGE REQUIREMENTS
FOR THE CITY OF THOUSAND OAKS
HILL CANYON WASTEWATER TREATMENT PLANT
DISCHARGE TO THE NORTH FORK ARROYO CONEJO VIA OUTFALL 005**

The following PermitteeDischarger is subject to waste discharge requirements (WDRs) set forth in this Order:

Table 1. Discharger Information

Discharger	City of Thousand Oaks (The City, Permittee or Discharger)
Name of Facility	Hill Canyon Wastewater Treatment Plant (Hill Canyon WWTP or Facility) and its associated wastewater collection system and outfalls
Facility Address	9600 Santa Rosa Road
	Camarillo, CA 93012
	Ventura County

Table 2. Discharge Location

Discharge Point	Effluent Description	Discharge Point Latitude (North)	Discharge Point Longitude (West)	Receiving Water
001*	Storm Water	34 °, 13', 21" N	118°, 55', 17" W	North Fork ArroyoConejo
002*	Storm Water	34 °, 13', 17" N	118°, 55', 17" W	North Fork ArroyoConejo
003*	Storm Water	34 °, 13', 06" N	118°, 55', 21" W	North Fork ArroyoConejo
004*	Storm Water	34 °, 12', 53" N	118°, 55', 14" W	North South Fork ArroyoConejo
006	Storm Water	<u>34°12'41.59"N</u>	<u>118°55'23.36"W</u>	<u>North Fork ArroyoConejo</u>
005	tertiary treated effluent	34 °, 12', 38" N	118°, 55', 12" W	North Fork ArroyoConejo

* These are stormwater-only discharges and are not covered by this NPDES Order, but are covered under *NPDES Permit No. CAS000001, General Permit for Storm Water Discharges Associated with Industrial Activities*. Discharge 002 has been filled and completely removed as a stormwater discharge site.

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Table 3. Administrative Information

This Order was adopted on:	May 8, 2014
This Order shall become effective on:	July 1, 2014
This Order shall expire on:	June 30, 2019
The Permittee shall file a Report of Waste Discharge as an application for renewal of waste discharge requirements in accordance with Title 23, Division 3, Chapter 9 of the California Code of Regulations, and an application for reissuance of a National Pollutant Discharge Elimination System permit in accordance with Title 40 § 122.21(d) of the Code of Federal regulations no later than:	180 days prior to the Order expiration date
The United States Environmental Protection Agency and the California Regional Water Quality Control Board, Los Angeles Region have classified this discharge as follows:	Major

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I, Samuel Unger, Executive Officer, do hereby certify that this Order with all attachments is a full, true, and correct copy of the Order adopted by the California Regional Water Quality Control Board, Los Angeles Region, on May 8, 2014.

Samuel Unger, P.E., Executive Officer

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I. FACILITY INFORMATION

Information describing the Hill Canyon Wastewater Treatment Plant (Hill Canyon WWTP or Facility) is summarized in Table 1 and in sections I and II of the Fact Sheet (Attachment F). Section I of the Fact Sheet also includes information regarding the Facility's permit application.

II. FINDINGS

The California Regional Water Quality Control Board, Los Angeles Region (Regional Water Board), finds:

A. Legal Authorities. This Order serves as WDRs pursuant to article 4, chapter 4, division 7 of the California Water Code (CWC) (commencing with section 13260). This Order is also issued pursuant to section 402 of the federal Clean Water Act (CWA) and implementing regulations adopted by the United States Environmental Protection Agency (USEPA) and chapter 5.5, division 7 of the CWC (commencing with section 13370). It shall serve as a National Pollutant Discharge Elimination System (NPDES) permit for point source discharges from this facility to surface waters.

B. Background and Rationale for Requirements. The Regional Water Board developed the requirements in this Order based on information submitted as part of the application, through monitoring and reporting programs, and other available information. The Fact Sheet (Attachment F), which contains background information and rationale for the requirements in this Order, is hereby incorporated into and constitutes Findings for this Order. Attachments A through E and G through I are also incorporated into this Order.

C. Notification of Interested Parties. The Regional Water Board has notified the City of Thousand Oaks (The City, Permittee or Discharger) and interested agencies and persons of its intent to prescribe WDRs for the discharge and has provided them with an opportunity to submit their written comments and recommendations. Details of the notification are provided in the Fact Sheet.

D. Provisions and Requirements Implementing State Law. Some of the provisions/requirements in this Order and the MRP are included to implement state law only. These provisions/requirements are not mandated or authorized under the federal CWA; consequently, violations of these provisions/requirements are not subject to the enforcement remedies available for NPDES violations

D-E. Consideration of Public Comment. The Regional Water Board, in a public meeting, heard and considered all comments pertaining to ~~the discharge~~this Order. Details of the Public Hearing are provided in the Fact Sheet.

THEREFORE, IT IS HEREBY ORDERED that this Order supersedes Order R4-2003-0083 (as revised by Order No. R4-2004-0121) except for enforcement purposes, and, in order to meet the provisions contained in Division 7 of the CWC (commencing with section 13000) and regulations adopted thereunder, and the provisions of the CWA and regulations and guidelines adopted thereunder, the Permittee is authorized to discharge from the identified facility and outfalls into waters of the United States and shall comply with the requirements in this Order. This action in no way prevents the Regional Water Board from taking enforcement action for past violations of the previous Order.

III. DISCHARGE PROHIBITIONS

A. Discharge of treated wastewater at a location different from that described in this Order is prohibited.

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- B. The bypass or overflow of untreated wastewater or wastes to surface waters or surface water drainage courses is prohibited, except as allowed in Standard Provision I.G. of Attachment D, Standard Provisions.
- C. The monthly average effluent dry weather discharge flow rate from the Facility shall not exceed the design capacity.
- D. The Permittee shall not cause degradation of any water supply, except as consistent with State Water Board Resolution No. 68-16.
- E. The treatment or disposal of wastes from the Facility shall not cause pollution or nuisance as defined in section 13050, subdivisions (l) and (m), of the CWC.
- F. The discharge of any substances in concentrations toxic to animal or plant is prohibited.
- G. The discharge of any radiological, chemical, or biological warfare agent or high level radiological waste is prohibited.

IV. EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS

A. Effluent Limitations – Discharge Point 005

1. Final Effluent Limitations – Discharge Point 005

- a. The Permittee shall maintain compliance with the following effluent limitations at Discharge Point 005, with compliance measured at Monitoring Location EFF-005 as described in the Monitoring and Reporting Program (MRP), Attachment E:

Table 4. Final Effluent Limitations

Parameter	Units	Effluent Limitations				
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Biochemical Oxygen Demand (BOD ₅ 20°C)	mg/L	20	30	45	--	--
	lbs/day ¹	2,300	3,500	5,200	--	--
Total Suspended Solids (TSS)	mg/L	15	40	45	--	--
	lbs/day ¹	1,750	4,600	5,200	--	--
pH	standard units	--	--	--	6.5	8.5
Removal Efficiency for BOD and TSS	%	85	--	--		
Oil and Grease	mg/L	10	--	15		
	lbs/day ¹	1,200		1,750		
Settleable Solids	ml/L	0.1	--	0.3		
Total Residual Chlorine	mg/L	--	--	0.1		
MBAS	mg/L	0.5	--	--		
	lbs/day ¹	60	--	--		

¹ The mass emission rates are based on the plant design flow rate of 14 MGD, and are calculated as follows: Flow (mgd) x Concentration (mg/L) x 8.34 (conversion factor) = lbs/day. During wet-weather storm events in which the flow exceeds the design capacity, the mass discharge rate limitations shall not apply, and concentration limitations will provide the only applicable effluent limitations.

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Parameter	Units	Effluent Limitations				
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Boron	mg/L	1	--	--		
	lbs/day ¹	120	--	--		
Total dissolved solids (TDS) (dry weather ²)	lbs/day	99,250 ³	--	--		
TDS (wet weather ⁴)	mg/L	850	--	--		
Sulfate (dry weather ²)	lbs/day	29,200 ³	--	--		
Sulfate (wet weather ⁴)	mg/L	250	--	--		
Chloride (dry weather ²)	lbs/day	17,500 ³	--	--		
Chloride (wet weather ⁴)	mg/L	150	--	--		
Ammonia Nitrogen ⁵	mg/L	3.1	--	5.6		
	lbs/day ¹	--	--	5.1 x Q ⁶		
[Nitrate + Nitrite] (as N)	mg/L	9 ⁷	--	--		
Nitrate (as N)	mg/L	9 ⁷	--	--		
Nitrite (as N)	mg/L	0.9 ⁷	--	--		
Beryllium	µg/L	4	--	--		
	lbs/day ¹	0.246	--	--		

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² Dry weather is defined in the *Calleguas Creek Watershed Salts Total Maximum Daily Load (Salts TMDL)* as the condition when the flows in the receiving water are below the 86th percentile flow, as explained in WDR § VII.O.

³ This limitation is derived from the final Waste Load Allocations (WLAs) in the *Salts TMDL*, established by the Regional Water Board on October 4, 2007. The *Salts TMDL*, which became effective on December 2, 2008, following USEPA's approval, specifies interim WLAs for total dissolved solids (TDS), sulfate, and chloride. However, interim effluent limits based on the interim WLAs in the *Salts TMDL* have not been incorporated into this Order because the effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitations for TDS and sulfate and because the Compliance Schedule Policy application information submittal requirements for chloride have not been satisfied by the City of Thousand Oaks.

Consistent with the *Salts TMDL*, these limits apply only during dry weather (as defined in the *Salts TMDL*, as explained in WDR § VII.O).

⁵ This limitation is derived from the final WLA for ammonia nitrogen, as set forth in the *Calleguas Creek Nitrogen Compounds and Related Effects TMDL*, established by the Regional Water Board on October 24, 2002. Final WLAs became operative on October 24, 2004. Effluent data demonstrates that the facility's discharge is currently able to comply with the final WLA-based limitations, so a Time Schedule Order (TSO) is not needed.

⁶ Q represents the POTW flow at the time the water quality measurement is collected (not to exceed the design flow of 14 MGD) and a conversion factor to lbs/day based on the units of measure for the flow.

⁷ This limitation is derived from the final WLA for nitrate nitrogen, nitrite nitrogen, and nitrate plus nitrite nitrogen, as set forth in the *Calleguas Creek Nitrogen Compounds and Related Effects TMDL*, established by the Regional Water Board on October 24, 2002. Final WLAs became operative on July 16, 2007. Effluent data demonstrates that the facility's discharge is currently able to comply with the final WLA-based limitations, so a TSO is not needed.

Parameter	Units	Effluent Limitations				
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Copper	µg/L	28 ⁸	--	42 ⁸		
	lbs/day	--	--	0.4 ⁹		
Nickel	µg/L	153 ¹⁰	--	231 ¹⁰		
	lbs/day	--	--	0.3 ¹¹		
Cyanide	µg/L	4.2	--	8.5		
	lbs/day	0.49	--	0.99		
Mercury	lbs/month	0.022 ¹²	--	--		
Bis(2-ethylhexyl) phthalate	µg/L	4	--	--		
	lbs/day ¹	0.24 6	--	--		

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⁸ This limitation is derived from the final WLA, as set forth in the *Calleguas Creek Watershed Metals TMDL (Metals TMDL)*, established by the Regional Water Board on June 8, 2006. The TMDL became effective on March 26, 2007. The *Metals TMDL* contains concentration-based WLAs that are expressed in terms of a footnote, which indicates that the concentration-based final limits will be included in the permits in accordance with NPDES guidance and requirements, but are not calculated as part of the TMDL. WLA-based limits were calculated using the freshwater CTR criteria, consistent with the *Final Metals and Selenium TMDL Technical Report (Technical Report)*, dated May 2006. This final effluent limitation applies on the effective date of this Order. Effluent data demonstrates that the facility's discharge is currently able to comply with the final WLA-based limitations, ~~so a TSO is not needed.~~

⁹ This limitation is derived from the mass-based final WLA, as set forth in the *Metals TMDL*, established by the Regional Water Board on June 8, 2006, for the protection of the lower reaches of Calleguas Creek. The TMDL became effective on March 26, 2007. The mass-based WLA is expressed in terms of a formula that incorporates a Water Effects Ratio (WER). The WLA-based limit was calculated using the 3.69 copper WER approved by the Regional Water Board on November 9, 2006. Interim effluent limitations may be provided in a separate [Time Schedule Order \(TSO\)](#).

¹⁰ This limitation is derived from the final WLA, as set forth in the *Metals TMDL*, established by the Regional Water Board on June 8, 2006. The TMDL became effective on March 26, 2007. The *Metals TMDL* contains concentration-based WLAs that are expressed in terms of a footnote, which indicates that the concentration-based final limits will be included in the permits in accordance with NPDES guidance and requirements, but are not calculated as part of the TMDL. WLA-based limits were calculated using the freshwater CTR criteria, consistent with the *Final Metals and Selenium TMDL Technical Report (Technical Report)*, dated May 2006. This final effluent limitation applies on the effective date of this Order. Effluent data demonstrates that the facility's discharge is currently able to comply with the final WLA-based limitations, ~~so a TSO is not needed.~~

¹¹ This mass-based effluent limitation is derived from the mass-based final WLA, as set forth in the *Metals TMDL*, established by the Regional Water Board on June 8, 2006, for the protection of the lower reaches of Calleguas Creek. The TMDL became effective on March 26, 2007. This final effluent limitation applies on the effective date of this Order. Effluent data demonstrates that the facility's discharge is currently able to comply with the final WLA-based limitations, ~~so a TSO is not needed.~~

¹² This limitation is derived from the final WLA, as set forth in the *Metals TMDL*, established by the Regional Water Board on June 8, 2006. This limitation is derived from the WLA for mercury, specified in pounds per month, as set forth in said TMDL. The TMDL became effective on March 26, 2007. This final effluent limitation applies on the effective date of this Order. Effluent data demonstrates that the facility's discharge is currently able to comply with the final WLA-based limitations, ~~so a TSO is not needed.~~

Parameter	Units	Effluent Limitations				
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Chlordane	µg/L	0.00059 ¹³	--	0.0012 ¹³		
4,4-DDD	µg/L	0.00084 ¹³	--	0.0017 ¹³		
4,4-DDE	µg/L	0.00059 ¹³	--	0.0012 ¹³		
4,4-DDT	µg/L	0.00059 ¹³	--	0.0012 ¹³		
Dieldrin	µg/L	0.00014 ¹³	--	0.00028 ¹³		
PCBs	µg/L	0.00017 ¹³	--	0.00034 ¹³		
Toxaphene	µg/L	0.00016 ¹³	--	0.00033 ¹³		
Chlorpyrifos	µg/L	0.0133 ¹⁴	--	0.024 ¹⁴		
Diazinon	µg/L	0.1 ¹⁴	--	0.1 ¹⁴		
Toxicity ^{15, 16}	Pass or Fail, %Effect	Pass ¹⁷	--	Pass or %Effect < 50		

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2. Interim Effluent Limitations – Discharge Point 005

- a. **Metals TMDL-based Interim limits:** Interim Waste Load Allocations (WLAs) are included in the *Metals TMDL* for copper, nickel, and mercury applicable to the Hill Canyon WWTP. Since existing data indicate that the Facility can consistently meet the final freshwater CTR criteria-based WLAs for copper, nickel, and mercury that are expressed as concentrations, no interim effluent limitations will be applied in this permit for the concentration-based limits for copper, nickel and mercury. However, the Permittee cannot currently meet the

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¹³ This limitation is derived from the final WLA, as set forth in the *Calleguas Creek Watershed Organochlorine Pesticide, Polychlorinated Biphenyls (PCB), and Siltation TMDL*, established by the Regional Water Board on July 7, 2005. The TMDL became effective on March 24, 2006. This final effluent limitation applies on the effective date of this Order. Effluent data demonstrates that the facility's discharge is currently able to comply with the final WLA-based limitations, ~~so a TSO is not needed.~~

¹⁴ This limitation is derived from the final WLA as set forth in the *Calleguas Creek Watershed Toxicity TMDL*, established by the Regional Water Board on July 7, 2005. The TMDL became effective on March 24, 2006. Consistent with the TMDL, the final WLA-based limit became operative on March 23, 2008. This final effluent limitation applies on the effective date of this Order. Effluent data demonstrates that the facility's discharge is currently able to comply with the final WLA-based limitations, so a TSO is not needed.

¹⁵ The *Calleguas Creek Watershed Toxicity TMDL* includes a WLA of 1.0 TUc for toxicity, which is required to be implemented in accordance with USEPA, State Water Board, and Regional Water Board resolutions, guidance and policy at the time of permit issuance or renewal. The numeric WLA is protective of both the numeric acute toxicity and the narrative toxicity Basin Plan water quality objectives. Consistent with the *Toxicity TMDL* Implementation Plan, this toxicity WLA will be implemented using current USEPA guidance in *National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document (EPA 833-R-10-003, June /2010)* and *EPA Regions 8, 9 and 10 Toxicity Training Tool (January 2010)*, <http://www2.epa.gov/region8/epa-regions-8-9-and-10-toxicity-training-tool-january-2010>.

¹⁶ "Pass" or "Fail" for Median Monthly Effluent Limitation (MMEL). "Pass" or "Fail" and "% Effect" for Maximum Daily Effluent Limitation (MDEL). The MMEL for chronic toxicity shall only apply when there is a discharge more than one day in a calendar month period. During such calendar months, exactly three independent toxicity tests are required when one toxicity test results in "Fail". The final effluent limitation will apply on the effective date of this Order, ~~since additional time for permit compliance, provided under the 2008 Compliance Schedule Policy, was not offered by the TMDL.~~ Effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitations, ~~so a TSO for chronic toxicity is not needed.~~

¹⁷ This is a Median Monthly Effluent Limitation.

final saltwater CTR criteria-based WLA for copper that is expressed in terms of mass (lbs/day units). The Regional Water Board may provide interim effluent limitations in a separate Time Schedule Order (TSO), using current representative data.

- b. **OC Pesticides, PCBs, and Siltation TMDL-based Interim limits:** Interim WLAs are included in the *OC Pesticides, PCBs, and Siltation TMDL* for chlordane, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, dieldrin, PCBs, and toxaphene applicable to the Hill Canyon WWTP. However, existing data indicate that the Facility can consistently meet the final WLAs for the aforementioned parameters. Therefore, no interim effluent limitations will be applied in this permit for those pesticides. The Permittee shall maintain compliance with the final effluent limitations for the above-mentioned parameters on the effective date of this permit.
- c. **Boron, Chloride, Sulfate, and TDS (Salts) TMDL-based Interim limits:** Interim WLAs for Salts are included in the *Calleguas Creek Watershed Salts TMDL*, established by the Regional Water Board on October 4, 2007, and became effective on December 8, 2008. The TMDL interim WLAs were set equal to the 95th percentile of available discharge data at the time of TMDL development. However, interim limits based on the interim WLAs have not been incorporated into this NPDES Order because existing data indicates that the Facility can consistently meet the final WLAs for the aforementioned parameters. Therefore, no interim effluent limitations will be applied in this permit for TDS, chloride, or sulfate. The Permittee shall maintain compliance with the final effluent limitations for the above-mentioned parameters on the effective date of this permit.

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Table 5. Interim Effluent Limitations

Parameter	Units	Effluent Limitations				
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
N/A						

3. Other Effluent Limitations – Discharge Point 005

- a. **Percent Removal:** The average monthly percent removal of BOD 5-day 20°C and TSS shall not be less than 85 percent.
- b. The temperature of wastes discharged shall not exceed 86°F except when the ambient temperature of the receiving water is higher than 86°F, in which case the temperature of the waste discharged shall not exceed the ambient temperature of the receiving waters.
- c. The radioactivity of the wastes discharged shall not exceed the limits specified in Title 22, chapter 15, article 5, sections 64442 and 64443, of the California Code of Regulations (CCR), or subsequent revisions.
- d. The wastes discharged to water courses shall at all times be adequately disinfected. For the purpose of this requirement, the wastes shall be considered adequately disinfected if: 1) the median number of coliform organisms at some

point in the treatment process does not exceed a most probable number (MPN) or colony forming units (CFU) of 2.2 per 100 milliliters utilizing the bacteriological results of the last seven days for which analyses have been completed; 2) the number of coliform organisms does not exceed an MPN or CFU of 23 per 100 milliliters in more than one sample within any 30-day period; and, 3) no sample exceeds 240 MPN or CFU of total coliform bacteria per 100 milliliters. Samples shall be collected at a time when wastewater flow and characteristics are most demanding on treatment facilities and disinfection processes.

- e. For the protection of the water contact recreation beneficial use, the wastes discharged to water courses shall have received adequate treatment, so that the turbidity of the treated wastewater does not exceed any of the following: (a) an average of 2 Nephelometric turbidity units (NTUs) within a 24-hour period; (b) 5 NTUs more than 5 percent of the time (72 minutes) within a 24-hour period; and (c) 10 NTU at any time.
- f. To protect the underlying ground water basins, pollutants shall not be present in the wastes discharged at concentrations that pose a threat to groundwater quality.

B. Land Discharge Specifications – Not Applicable

C. Recycling Specifications – Not Applicable.

~~The City of Thousand Oaks is not subject to separate Water Recycling Requirements (WRRs). Instead, the City has a water rights petition that allows them to sell water to Camrosa Water District. Presently, Hill Canyon WWTP sells about 7 MGD of its treated effluent to Camrosa WRP. The effluent is taken out of Calleguas at a diversion structure that is owned and operated by Camrosa Water District. The recycled water is used for agricultural irrigation.~~

~~Currently, the City of Thousand Oaks has accepted statements of qualifications from seven consulting firms and will be selecting a consulting firm by the end of February 2014. The consulting firm will be tasked with evaluating the feasibility of utilizing local groundwater as a source of potable water for its residents, to reduce the reliance on imported water, and evaluating ways of further utilizing recycled water to benefit the City in the future.~~

V. RECEIVING WATER LIMITATIONS

A. Surface Water Limitations

Receiving water limitations are based on water quality objectives contained in the Basin Plan and are a required part of this Order. The discharge shall not cause the following in North Fork Arroyo Conejo:

- 1. For waters designated with a warm freshwater habitat (WARM) beneficial use, the temperature of the receiving water at any time or place and within any given 24-hour period shall not be altered by more than 5°F above the natural temperature and shall not be raised above 86°F due to the discharge of effluent at the receiving water station located downstream of the discharge. Natural conditions shall be determined on a case-by-case basis.

If the receiving water temperature, downstream of the discharge, exceeds 86°F as a result of the following:

- a. High temperature in the ambient air; or,
- b. High temperature in the receiving water upstream of the discharge,

then the exceedance shall not be considered a violation.

2. The pH of inland surface waters shall not be depressed below 6.5 or raised above 8.5 as a result of wastes discharged. Ambient pH levels shall not be changed more than 0.5 units from natural conditions as a result of wastes discharged. Natural conditions shall be determined on a case-by-case basis.
3. The dissolved oxygen in the receiving water shall not be depressed below 5 mg/L as a result of the wastes discharged.
4. The total residual chlorine shall not exceed 0.1 mg/L in the receiving waters and shall not persist in the receiving water at any concentration that causes impairment of beneficial uses as a result of the wastes discharged.
5. The Escherichia coli (E. coli) concentration in the receiving water shall not exceed the following, as a result of wastes discharged:
 - a. Geometric Mean Limits
 - i. E. coli density shall not exceed 126/100 mL.
 - b. Single Sample Limits
 - i. E. coli density shall not exceed 235/100 mL.
6. Waters shall be free of changes in turbidity that cause nuisance or adversely affect beneficial uses. Increases in natural turbidity attributable to controllable water quality factors shall not exceed the following limits, as a result of wastes discharged:
 - a. Where natural turbidity is between 0 and 50 NTU, increases shall not exceed 20%, and
 - b. Where natural turbidity is greater than 50 NTU, increases shall not exceed 10%.
7. The wastes discharged shall not produce concentrations of substances in the receiving water that are toxic to or cause detrimental physiological responses in human, animal, or aquatic life.
8. The wastes discharged shall not cause concentrations of contaminants to occur at levels that are harmful to human health in waters that are existing or potential sources of drinking water.
9. The concentrations of toxic pollutants in the water column, sediments, or biota shall not adversely affect beneficial uses as a result of the wastes discharged.
10. The wastes discharged shall not contain substances that result in increases in BOD, which adversely affect the beneficial uses of the receiving waters.

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11. Waters discharged shall not contain biostimulatory substances in concentrations that promote aquatic growth to the extent that such growth causes nuisance or adversely affects beneficial uses.
12. The dissolved sulfide concentration of waters in and near sediments shall not be significantly increased above that present under natural conditions as a result of waters discharged.
13. The wastes discharged shall not cause the receiving waters to contain any substance in concentrations that adversely affect any designated beneficial use.
14. The wastes discharged shall not alter the natural taste, odor, or color of fish, shellfish, or other surface water resources used for human consumption.
15. The wastes discharged shall not result in problems due to breeding of mosquitoes, gnats, black flies, midges, or other pests.
16. The wastes discharged shall not result in visible floating particulates, foams, or oil and grease in the receiving waters.
17. The wastes discharged shall not alter the color of the receiving waters; create a visual contrast with the natural appearance of the water; or cause aesthetically undesirable discoloration of the receiving waters.
18. No physical evidence of wastes discharged shall be visible at any time in the water or on beaches, shores, rocks, or structures.
19. The wastes discharged shall not contain any individual pesticide or combination of pesticides in concentrations that adversely affect beneficial uses of the receiving waters. There shall be no increase in pesticide concentrations found in bottom sediments or aquatic life as a result of the wastes discharged.
20. Ammonia shall not be present at levels that, when oxidized to nitrate, pose a threat to groundwater quality.
21. Chronic Toxicity Receiving Water Quality Objective
 - a. There shall be no chronic toxicity in ambient waters as a result of wastes discharged.
 - b. Receiving water and effluent toxicity testing shall be performed on the same day as close to concurrently as possible.
22. The wastes discharged shall not cause the ammonia water quality objective in the Basin Plan to be exceeded in the receiving waters. Compliance with the ammonia WQOs shall be determined by comparing the receiving water ammonia concentration to the ammonia water quality objective in the Basin Plan. The ammonia water quality objective can also be calculated using the pH and temperature of the receiving water at the time of collection of the ammonia sample.

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B. Groundwater Limitations

The discharge shall not cause the underlying groundwater to be degraded, exceed WQOs, unreasonably affect beneficial uses, or cause a condition of pollution or nuisance.

VI. PROVISIONS

A. Standard Provisions

1. The Permittee shall comply with all Standard Provisions included in Attachment D.
2. **Regional Water Board Standard Provisions.** The Permittee shall comply with the following provisions. In the event that there is any conflict, duplication, or overlap between provisions specified by this Order, the more stringent provision shall apply:
 - a. Neither the treatment nor the discharge of pollutants shall create a pollution, contamination, or nuisance as defined by section 13050 of the CWC.
 - b. Odors, vectors, and other nuisances of sewage or sludge origin beyond the limits of the treatment plant site or the sewage collection system due to improper operation of facilities, as determined by the Regional Water Board, are prohibited.
 - c. All facilities used for collection, transport, treatment, or disposal of wastes shall be adequately protected against damage resulting from overflow, washout, or inundation from a storm or flood having a recurrence interval of once in 100 years.
 - d. Collection, treatment, and disposal systems shall be operated in a manner that precludes or impedes public contact with wastewater.
 - e. Collected screenings, sludges, and other solids removed from liquid wastes shall be disposed of in a manner approved by the Executive Officer of the Regional Water Board.
 - f. The provisions of this Order are severable. If any provision of this Order is found invalid, the remainder of this Order shall not be affected.
 - g. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation under authority preserved by section 510 of the CWA.
 - h. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities or penalties to which the Permittee is or may be subject to under section 311 of the CWA, related to oil and hazardous substances liability.
 - ~~i. The Permittee must comply with the lawful requirements of municipalities, counties, drainage districts, and other local agencies regarding discharges of storm water to storm drain systems or other water courses under their jurisdiction, including applicable requirements in municipal storm water management programs developed to comply with NPDES permits issued by the Regional Water Board to local agencies.~~

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- ~~j.i.~~ Discharge of wastes to any point other than specifically described in this Order is prohibited, ~~and constitutes a violation thereof.~~
- ~~k.j.~~ The Permittee shall comply with all applicable effluent limitations, national standards of performance, toxic effluent standards, and all federal regulations established pursuant to sections 301, 302, 303(d), 304, 306, 307, 316, 403, and 405 of the federal CWA and amendments thereto.
- ~~l.k.~~ These requirements do not exempt the operator of the waste disposal facility from compliance with any other laws, regulations, or ordinances which may be applicable; they do not legalize this waste disposal facility; and they leave unaffected any further restraints on the disposal of wastes at this site which may be contained in other statutes or required by other agencies.
- ~~m.l.~~ Oil or oily material, chemicals, refuse, or other polluting materials shall not be stored or deposited in areas where they may be picked up by rainfall and carried off of the property and/or discharged to surface waters. Any such spill of such materials shall be contained and removed immediately.
- ~~n.m.~~ A copy of these waste discharge specifications shall be maintained at the discharge Facility so as to be available at all times to operating personnel.
- ~~o.n.~~ If there is any storage of hazardous or toxic materials or hydrocarbons at this Facility and if the Facility is not manned at all times, a 24-hour emergency response telephone number shall be prominently posted where it can easily be read from the outside.
- ~~p.o.~~ The Permittee shall file with the Regional Water Board a report of waste discharge at least 120 days before making any proposed change in the character, location or volume of the discharge.
- ~~q.p.~~ In the event of any change in name, ownership, or control of these waste disposal facilities, the Permittee shall notify the Regional Water Board of such change and shall notify the succeeding owner or operator of the existence of this Order by letter, a copy of which shall be forwarded to the Regional Water Board, 30 days prior to taking effect.
- ~~r.q.~~ The discharge of any waste resulting from the combustion of toxic or hazardous wastes to any waste stream that ultimately discharges to waters of the United States is prohibited, unless specifically authorized elsewhere in this Order.
- ~~s.r.~~ The Permittee shall notify the Regional Water Board Executive Officer in writing no later than 6 months prior to planned discharge of any chemical, other than the products previously reported to the Executive Officer, which may be toxic to aquatic life. Such notification shall include:

 - i. Name and general composition of the chemical,
 - ii. Frequency of use,
 - iii. Quantities to be used,

- iv. Proposed discharge concentrations, and
- v. USEPA registration number, if applicable.

~~t.s.~~ Violation of any of the provisions of this Order may subject the Permittee to any of the penalties described herein or in Attachment D of this Order, or any combination thereof, at the discretion of the prosecuting authority; except that only one kind of penalty may be applied for each kind of violation.

~~u.t.~~ Failure to comply with provisions or requirements of this Order, or violation of other applicable laws or regulations governing discharges from this Facility, may subject the Permittee to administrative or civil liabilities, criminal penalties, and/or other enforcement remedies to ensure compliance. Additionally, certain violations may subject the Permittee to civil or criminal enforcement from appropriate local, state, or federal law enforcement entities.

~~v.u.~~ The CWC provides that any person who violates a waste discharge requirement or a provision of the CWC is subject to civil penalties of up to \$5,000 per day, \$10,000 per day, or \$25,000 per day of violation, or when the violation involves the discharge of pollutants, is subject to civil penalties of up to \$10 per gallon per day or \$25 per gallon per day of violation, or some combination thereof, depending on the violation, or upon the combination of violations.

~~w.v.~~ CWC section 13385(h)(i) requires the Regional Water Board to assess a mandatory minimum penalty of three-thousand dollars (\$3,000) for each serious violation. Pursuant to CWC section 13385(h)(2), a "serious violation" is defined as any waste discharge that violates the effluent limitations contained in the applicable waste discharge requirements for a Group II pollutant by 20 percent or more, or for a Group I pollutant by 40 percent or more. Appendix A of 40 CFR §123.45 specifies the Group I and II pollutants. Pursuant to CWC section 13385.1(a)(1), a "serious violation" is also defined as "a failure to file a discharge monitoring report required pursuant to section 13383 for each complete period of 30 days following the deadline for submitting the report, if the report is designed to ensure compliance with limitations contained in waste discharge requirements that contain effluent limitations."

~~x.w.~~ CWC section 13385(i) requires the Regional Water Board to assess a mandatory minimum penalty of three-thousand dollars (\$3,000) for each violation whenever a person violates a waste discharge requirement effluent limitation in any period of six consecutive months, except that the requirement to assess the mandatory minimum penalty shall not be applicable to the first three violations within that time period.

~~y.x.~~ Pursuant to CWC section 13385.1(d), for the purposes of section 13385.1 and subdivisions (h), (i), and (j) of section 13385, "effluent limitation" means a numeric restriction or a numerically expressed narrative restriction, on the quantity, discharge rate, concentration, or toxicity units of a pollutant or pollutants that may be discharged from an authorized location. An effluent limitation may be final or interim, and may be expressed as a prohibition. An effluent limitation, for these purposes, does not include a receiving water limitation, a compliance schedule, or a best management practice.

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~~z.y.~~ CWC section 13387(e) provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this order, including monitoring reports or reports of compliance or noncompliance, or who knowingly falsifies, tampers with, or renders inaccurate any monitoring device or method required to be maintained in this order shall be punished by a fine of not more than twenty-five thousand dollars (\$25,000), imprisonment pursuant to subdivision (h) of Section 1170 of the Penal Code for 16, 20, or 24 months, or by both that fine and imprisonment. For a subsequent conviction, such a person shall be punished by a fine of not more than twenty-five thousand dollars (\$25,000) per day of violation, by imprisonment pursuant to subdivision (h) of Section 1170 of the Penal Code for two, three, or four years, or by both that fine and imprisonment.

~~aa.z.~~ In the event the Permittee does not comply or will be unable to comply for any reason, with any prohibition, effluent limitation, or receiving water limitation of this Order, the Permittee shall notify the Chief of the Watershed Regulatory Section at the Regional Water Board by telephone (213) 576-6616, or by fax at (213) 576-6660 within 24 hours of having knowledge of such noncompliance, and shall confirm this notification in writing to the Regional Water Board within five days, unless the Regional Water Board waives confirmation. The written notification shall state the nature, time, duration, and cause of noncompliance, and shall describe the measures being taken to remedy the current noncompliance and, prevent recurrence including, where applicable, a schedule of implementation. The written notification shall also be submitted via email with reference to CI-4917 to losangeles@waterboards.ca.gov. Other noncompliance requires written notification as above at the time of the normal monitoring report.

~~bb.~~ ~~Prior to making any change in the point of discharge, place of use, or purpose of use of treated wastewater that results in a decrease of flow in any portion of a watercourse, the Permittee must file a petition with the State Water Board, Division of Water Rights, and receive approval for such a change. (CWC section 1211)~~

B. Monitoring and Reporting Program (MRP) Requirements

The Permittee shall comply with the MRP, and future revisions thereto, in Attachment E.

C. Special Provisions

1. Reopener Provisions

- a. This Order may be modified, revoked and reissued, or terminated for cause, including, but not limited to:
 - i. Violation of any term or condition contained in this Order;
 - ii. Obtaining this Order by misrepresentation, or by failure to disclose fully all relevant facts; or
 - iii. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

The filing of a request by the Permittee for an Order modification, revocation, and issuance or termination, or a notification of planned changes or anticipated noncompliance does not stay any condition of this Order.

- b. This Order may be reopened for modification, or revocation and reissuance, as a result of the detection of a reportable priority pollutant generated by special conditions included in this Order. These special conditions may be, but are not limited to, fish tissue sampling, whole effluent toxicity testing, monitoring of internal waste stream(s), and monitoring for surrogate parameters. Additional requirements may be included in this Order as a result of the special condition monitoring data.
- c. This Order may be modified, in accordance with the provisions set forth in title 40 of the Code of Federal Regulations (40 CFR) parts 122 and 124 to include requirements for the implementation of a watershed protection management approach.
- d. The Board may modify, or revoke and reissue this Order if present or future investigations demonstrate that the discharge(s) governed by this Order will cause, have ~~the reasonable~~ potential to cause, or ~~will~~ contribute to adverse impacts on ~~water quality and/or~~ beneficial uses or degradation of water quality of the receiving waters.
- e. This Order may also be modified, revoked, and reissued or terminated in accordance with the provisions of 40 CFR sections 122.44, 122.62 to 122.64, 125.62, and 125.64. Causes for taking such actions include, but are not limited to, failure to comply with any condition of this Order, endangerment to human health or the environment resulting from the permitted activity, or acquisition of newly obtained information which would have justified the application of different conditions if known at the time of Order adoption. The filing of a request by the ~~Discharger~~Permittee for an Order modification, revocation and issuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any condition of this Order.
- f. This Order may be modified, in accordance with the provisions set forth in 40 CFR parts 122 to 124, to include new minimum levels (MLs).
- g. If an applicable toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under section 307(a) of the CWA for a toxic pollutant and that standard or prohibition is more stringent than any limitation on the pollutant in this Order, the Regional Water Board may institute proceedings under these regulations to modify or revoke and reissue the Orders to conform to the toxic effluent standard or prohibition.
- h. ~~The waste discharged shall not cause a violation of any applicable water quality standard for receiving waters.~~ If more stringent applicable water quality standards are promulgated or approved pursuant to section 303 of the CWA, or amendments, thereto, the Regional Water Board will revise and modify this Order in accordance with such standards.
- i. This Order may be reopened and modified, to add or revise effluent limitations as a result of future Basin Plan Amendments, such as an update of a water quality objective, or a revision of any of the Calleguas Creek TMDLs.

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- j. This Order may be reopened to modify the TDS, sulfate, and chloride final effluent limitations to include an AF, following approval of an AF for the Facility by the Regional Water Board.
- k. This Order may be reopened and modified, to revise effluent limitations as a result of the delisting of a pollutant from the 303(d) list.
- l. This Order may be reopened and modified to revise the chronic toxicity effluent limitation and/or total residual chlorine limitations, to the extent necessary, to be consistent with State Water Board precedential decisions, new policies, a new state-wide plan, new laws, or new regulations.

2. Special Studies, Technical Reports and Additional Monitoring Requirements

a. Calleguas Creek TMDL Monitoring Requirements

The POTWs within the Calleguas Creek Watershed (CCW) have developed a watershed monitoring program to implement the requirements for monitoring, conducting special studies, and implementing actions to reduce discharges of pollutants covered by the TMDL. This watershed monitoring program has been approved by the Regional Water Board. The responsible parties to the CCW TMDLs have signed a Memorandum of Agreement to jointly fund and complete the implementation of the TMDL Calleguas Creek Watershed Monitoring Program (CCWTMP), which began in August 2008. The CCWTMP was created to better facilitate a coordinated monitoring effort where multiple TMDL monitoring requirements could be addressed via a single program that would carry out and manage all aspects of the monitoring activities. This monitoring program has been developed to easily integrate new TMDL monitoring efforts as TMDLs are adopted and/or special study monitoring efforts are required.

The CCWTMP Annual Monitoring Report has been submitted since 2009. The annual monitoring reports summarize the monitoring reports for five of the six TMDLs currently effective in the CCW. These TMDLs include nitrogen compounds and related effects, toxicity, organochlorine pesticides and PCBs, metals and selenium, and salts. A separate annual report is submitted for the trash TMDL. These reports were submitted to the Regional Water Board TMDL staff for review.

Since 2009, all sampling has followed the Standard Operating Procedures outlined in the Executive Officer approved *Calleguas Creek Watershed Management Plan Quality Assurance Project Plan (QAPP)*, with the following exception: the methods for the salts compliance monitoring that began on September 9, 2012, are not currently contained in the QAPP but were described in detail in the final Salts Monitoring Approach submitted to the Regional Water Board on June 29, 2012. The QAPP will be revised in 2014 to incorporate the methods, sites, and schedule for compliance salts monitoring described in the final approach document.

In addition, the majority of the TMDLs include requirements for monitoring, conducting special studies, and implementing actions to reduce discharges of pollutants covered by the TMDL. Many of these activities overlap and provide benefits for numerous TMDLs in the watershed. The CCWTMP annual reports included an appendix that summarizes work plan and study submittal dates, dates of responses to comments received by the Regional Water Board, and

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actions that have been taken to reduce pollutant discharges to the waterbodies. Additionally, the report provides a mechanism for providing the Regional Water Board with required progress reports for some of the TMDLs.

b. Special Study for Constituents of Emerging Concern (CECs)

i. CECs Monitoring Requirement in the Effluent

- (1). The Permittee shall conduct a special study to investigate the CECs in the effluent discharge. The Permittee shall follow the requirements of the work plan as discussed in the MRP and the Fact Sheet. Analysis under this section is for monitoring purposes only. Analytical results obtained for this study will not be used for compliance determination purposes, since the methods have not been incorporated into 40 CFR part 136.

c. Treatment Plant Capacity

The Permittee shall submit a written report to the Executive Officer of the Regional Water Board within 90 days after the “30-day (monthly) average” daily dry-weather flow equals or exceeds 75 percent of the design capacity of waste treatment and/or disposal facilities. The Permittee's senior administrative officer shall sign a letter, which transmits that report and certifies that the Permittee's policy-making body is adequately informed of the report's contents. The report shall include the following:

- i. The average daily flow for the month, the date on which the peak flow occurred, the rate of that peak flow, and the total flow for the day;
- ii. The best estimate of when the monthly average daily dry-weather flow rate will equal or exceed the design capacity of the facilities; and,
- iii. A schedule for studies, design, and other steps needed to provide additional capacity for waste treatment and/or disposal facilities before the waste flow rate equals the capacity of present units.

This requirement is applicable to those facilities which have not reached 75 percent of capacity as of the effective date of this Order. For those facilities that have reached 75 percent of capacity by that date but for which no such report has been previously submitted, such a report shall be filed within 90 days of the issuance of this Order.

d. ~~Water Recycling~~

~~In accordance with statewide policies concerning water reclamation, this Regional Water Board strongly encourages, wherever practical, water recycling, water conservation, and use of storm water and dry-weather urban runoff. Therefore, the Permittee shall investigate the feasibility of recycling, conservation, and/or alternative disposal methods of wastewater (such as groundwater injection), and/or use of storm water and dry-weather urban runoff. City of Thousand Oaks will contract a consultant to evaluate the feasibility of expanding its recycled water program, currently existing under a water rights~~

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~~petition. The Permittee shall submit this feasibility study to the Regional Water Board 180 days after the effective date of this Order.~~

3. Best Management Practices and Pollution Prevention

a. Storm Water Pollution Prevention Plan (SWPPP) – (Not Applicable)

Stormwater is regulated under a separate Order.

b. Spill Clean-up Contingency Plan (SCCP)

Within 90 days of the effective date of this Order, the Permittee is required to submit a SCCP, which describes the activities and protocols to address clean-up of spills, overflows, and bypasses of untreated or partially treated wastewater from the Permittee’s collection system or treatment facilities that reach water bodies, including dry channels and beach sands. At a minimum, the plan shall include sections on spill clean-up and containment measures, public notification, and monitoring. The Permittee shall review and amend the plan as appropriate after each spill from the Facility or in the service area of the Facility. The Permittee shall include a discussion in the annual summary report of any modifications to the Plan and the application of the Plan to all spills during the year.

c. Pollutant Minimization Program (PMP)

Reporting protocols in MRP section X.B.4 describe sample results that are to be reported as Detected but Not Quantified (DNQ) or Not Detected (ND). Definitions for a reported Minimum Level (ML) and Method Detection Limit (MDL) are provided in Attachment A. These reporting protocols and definitions are used in determining the need to conduct a PMP as follows:

The Permittee shall develop and conduct a PMP as further described below when there is evidence (e.g., sample results reported as DNQ when the effluent limitation is less than the MDL; sample results from analytical methods more sensitive than those methods required by this Order; presence of whole effluent toxicity; health advisories for fish consumption; or, results of benthic or aquatic organism tissue sampling) that a pollutant is present in the effluent above an effluent limitation and either of the following is true:

- i. The concentration of the pollutant is reported as DNQ and the effluent limitation is less than the reported ML; or,
- ii. The concentration of the pollutant is reported as ND and the effluent limitation is less than the MDL, using definitions described in Attachment A and reporting protocols described in the MRP.

The goal of the PMP shall be to reduce all potential sources of a pollutant through pollutant minimization (control) strategies, including pollution prevention measures as appropriate, to maintain the effluent concentration at or below the effluent limitation. Pollution prevention measures may be particularly appropriate for persistent bioaccumulative priority pollutants where there is evidence that beneficial uses are being impacted. The Regional Water Board may consider cost-effectiveness when establishing the requirements of a PMP. The completion and implementation of a Pollution Prevention Plan (PPP), if

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required pursuant to CWC section 13263.3(d), shall be considered to fulfill the PMP requirements.

The PMP shall include, but not be limited to, the following actions and submittals acceptable to the Regional Water Board:

- i. An annual review and semi-annual monitoring of potential sources of the reportable pollutant(s), which may include fish tissue monitoring and other bio-uptake sampling;
- ii. Quarterly monitoring for the reportable pollutant(s) in the influent to the wastewater treatment system;
- iii. Submittal of a control strategy designed to proceed toward the goal of maintaining concentrations of the reportable pollutant(s) in the effluent at or below the effluent limitation;
- iv. Implementation of appropriate cost-effective control measures for the reportable pollutant(s), consistent with the control strategy; and
- v. An annual status report that shall be sent to the Regional Water Board including:
 - (1). All PMP monitoring results for the previous year;
 - (2). A list of potential sources of the reportable pollutant(s);
 - (3). A summary of all actions undertaken pursuant to the control strategy; and
 - (4). A description of actions to be taken in the following year.

4. Construction, Operation and Maintenance Specifications

- a. Wastewater treatment facilities subject to this Order shall be supervised and operated by persons possessing certificates of appropriate grade pursuant to California Code of Regulations (CCR), title 23, division 3, chapter 26 (CWC sections 13625 – 13633).
- b. The Permittee shall maintain in good working order a sufficient alternate power source for operating the wastewater treatment and disposal facilities. All equipment shall be located to minimize failure due to moisture, liquid spray, flooding, and other physical phenomena. The alternate power source shall be designed to permit inspection and maintenance and shall provide for periodic testing. If such alternate power source is not in existence, the Permittee shall halt, reduce, or otherwise control all discharges upon the reduction, loss, or failure of the primary source of power.
- c. The Permittee shall provide standby or emergency power facilities and/or storage capacity or other means so that in the event of plant upset or outage due to power failure or other cause, discharge of raw or inadequately treated sewage does not occur.

5. Special Provisions for Municipal Facilities (Publicly-Owned Treatment Works [POTWs] Only)

a. Sludge Disposal Requirements

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- i. All sludge generated at the wastewater treatment plant must be disposed of, treated, or applied to land in accordance with federal regulations contained in 40 CFR part 503. These requirements are enforceable by USEPA.
- ii. The Permittee ~~shall ensure compliance with~~ separately required to comply with the requirements in State Water Board Order No. 2004-10-DWQ, *General WDRs for the Discharge of Biosolids to Land for Use as a Soil Amendment in Agricultural, Silvicultural, Horticultural and Land Reclamation Activities* for those sites receiving the Permittee's biosolids which a Regional Water Board has placed under this general order, and with the requirements in individual WDRs issued by a Regional Water Board for sites receiving the Permittee's biosolids.
- iii. The Permittee shall separately comply, if applicable, with WDRs issued by other Regional Water Boards to which jurisdiction the biosolids are transported and applied.
- iv. The Permittee shall assure that haulers transporting sludge off site for treatment, storage, use, or disposal take all necessary measures to keep the sludge contained. The Permittee shall maintain and have haulers adhere to a spill clean-up plan. Any spills shall be reported to USEPA and the Regional Water Board or state agency in which the spill occurred. All trucks hauling sludge shall be thoroughly washed after unloading at the field or at the receiving facility.
- v. The Permittee shall furnish this Regional Water Board with a copy of any report submitted to USEPA, the State Water Board or other Regional Water Board, with respect to municipal sludge or biosolids.

b. Pretreatment Requirements

- i. ~~The Permittee has developed and implemented a is Order includes by reference, the Permittee's Pretreatment Program that was previously submitted to this Regional Water Board and approved by USEPA on June 2, 1982. The Permittee is in the process of making changes to its sewer use ordinance. Any change to the program shall be reported to the Regional Water Board in writing and shall not become effective until approved by the Executive Officer in accordance with procedures established in 40 CFR section 403.18.~~
- ii. The City of Thousand Oaks has made revisions to its Sewer Use Ordinance (SUO) in 1988, 1990, 1991, 1993, and 1997. On April 2, 1998, the City submitted a revised Enforcement Response Plan (ERP) to the Regional Water Board, in response to the 1997 Pretreatment Compliance Inspection (PCI). More recently, the City of Thousand Oaks revised its SUO and incorporated the required components of the pretreatment streamlining regulation and required elements which had been found missing during the 2009 Pretreatment Compliance Audit (PCA). The Thousand Oaks City Council approved the revised SUO and adopted a revised Title 10 of the City's Municipal Code. Permittee is in the process of updating its ERP in response to the 2013 PCI making changes to its sewer use ordinance.

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iii. Any change to the program shall be reported to the Regional Water Board in writing and shall not become effective until approved by the Executive Officer in accordance with procedures established in 40 CFR section 403.18.

~~ii.~~iv. Applications for renewal or modification of this Order must contain information about industrial discharges to the POTW pursuant to 40 CFR §122.21(j)(6). Pursuant to 40 CFR §122.42(b) and provision VII.A of Attachment D, Standard Provisions, of this Order, the Permittee shall provide adequate notice of any new introduction of pollutants or substantial change in the volume or character of pollutants from industrial discharges which were not included in the permit application. Pursuant to 40 CFR §122.44(j)(1), the Permittee shall annually identify and report, in terms of character and volume of pollutants, any Significant Industrial Users discharging to the POTW subject to Pretreatment Standards under section 307(b) of the CWA and 40 CFR part 403.

~~iii.~~v. The City of Thousand Oaks shall comply with Attachment I – Pretreatment Reporting Requirements.

c. Collection System Requirements

i. The Permittee's collection system is part of the system that is subject to this Order. As such, the Permittee must properly operate and maintain its collection system (40 CFR §122.41(e)). The Permittee must report any non-compliance (40 CFR §122.41(l)(6) and (7)) and mitigate any discharge from the collection system in violation of this Order (40 CFR §122.41(d)). See the Order at Attachment D, subsections I.D, V.E, V.H, and I.C., and the following section of this Order.

6. Spill Reporting Requirements

a. Initial Notification

Although State and Regional Water Board staff do not have duties as first responders, this requirement is an appropriate mechanism to ensure that the agencies that do have first responder duties are notified in a timely manner in order to protect public health and beneficial uses. For certain spills, overflows and bypasses, the Permittee shall make notifications as required below:

- i. In accordance with the requirements of Health and Safety Code section 5411.5, the Permittee shall provide notification to the local health officer or the director of environmental health with jurisdiction over the affected water body of any unauthorized release of sewage or other waste that causes, or probably will cause, a discharge to any waters of the state as soon as possible, but no later than two hours after becoming aware of the release.
- ii. In accordance with the requirements of CWC section 13271, the Permittee shall provide *notification* to the California Emergency Management Agency (Cal EMA) of the release of reportable amounts of hazardous substances or sewage that causes, or probably will cause, a discharge to any waters of the state as soon as possible, but not later than two hours after becoming aware of the release. The CCR, Title 23, section 2250, defines a reportable

amount of sewage as being 1,000 gallons. The phone number for reporting these releases to the Cal EMA is (800) 852-7550.

- iii. The Permittee shall notify the Regional Water Board of any unauthorized release of sewage from its POTW that causes, or probably will cause, a discharge to a water of the state as soon as possible, but not later than two hours after becoming aware of the release. This initial notification does not need to be made if the Permittee has notified Cal EMA and the local health officer or the director of environmental health with jurisdiction over the affected waterbody. The phone number for reporting these releases of sewage to the Regional Water Board is (213) 576-6657. The phone numbers for after hours and weekend reporting of releases of sewage to the Regional Water Board are (213) 305-2284 and (213) 305-2253.

At a minimum, the following information shall be provided to the Regional Water Board:

- (1). The location, date, and time of the release;
- (2). The route of the spill including the water body that received or will receive the discharge;
- (3). An estimate of the amount of sewage or other waste released and the amount that reached a surface water at the time of notification;
- (4). If ongoing, the estimated flow rate of the release at the time of the notification;
- (5). The name, organization, phone number and email address of the reporting representative; and,
- (6). A certification that the State Office of Emergency Services and the local health officer or directors of environmental health with jurisdiction over the affected water bodies have been notified of the discharge.

b. Monitoring

For spills, overflows and bypasses reported under section VI.C.6.a, the Permittee shall monitor as required below:

- i. To define the geographical extent of the spill's impact, the Permittee shall obtain grab samples (if feasible, accessible, and safe) for all spills, overflows or bypasses of any volume that reach any waters of the state (including surface and ground waters). The Permittee shall analyze the samples for total coliform, fecal coliform, E. coli (if fecal coliform test shows positive), enterococcus, and relevant pollutants of concern, upstream and downstream of the point of entry of the spill (if feasible, accessible, and safe). This monitoring shall be done on a daily basis from the time the spill is known until the results of two consecutive sets of bacteriological monitoring indicate the return to the background level or the County Department of Public Health authorizes cessation of monitoring.

c. Reporting

The initial notification required under section VI.C.6.a shall be followed by:

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- i. As soon as possible, but not later than twenty-four hours after becoming aware of an unauthorized discharge of sewage or other waste from its wastewater treatment plant to a water of the state, the Permittee shall submit a statement to the Regional Water Board by email at augustine.anijelo@waterboards.ca.gov. If the discharge is 1,000 gallons or more, this statement shall certify that Cal EMA has been notified of the discharge in accordance with CWC section 13271. The statement shall also certify that the local health officer or director of environmental health with jurisdiction over the affected water bodies has been notified of the discharge in accordance with Health and Safety Code section 5411.5. The statement shall also include at a minimum the following information:
 - (1). Agency, NPDES No., Order No., and MRP CI No., if applicable;
 - (2). The location, date, and time of the discharge;
 - (3). The water body that received the discharge;
 - (4). A description of the level of treatment of the sewage or other waste discharged;
 - (5). An initial estimate of the amount of sewage or other waste released and the amount that reached a surface water;
 - (6). The Cal EMA control number and the date and time that notification of the incident was provided to Cal EMA; and,
 - (7). The name of the local health officer or director of environmental health representative notified (if contacted directly); the date and time of notification; and the method of notification (e.g., phone, fax, email).
- ii. A written preliminary report five working days after disclosure of the incident is required. Submission to the Regional Water Board of the California Integrated Water Quality System (CIWQS) Sanitary Sewer Overflow (SSO) event number shall satisfy this requirement. Within 30 days after submitting the preliminary report, the Permittee shall submit the final written report to this Regional Water Board. (A copy of the final written report, for a given incident, already submitted pursuant to a statewide General WDRs for Wastewater Collection System Agencies (SSO WDR), may be submitted to the Regional Water Board to satisfy this requirement.) The written report shall document the information required in paragraph d below, monitoring results and any other information required in provisions of the Standard Provisions document including corrective measures implemented or proposed to be implemented to prevent/minimize future occurrences. The Executive Officer for just cause can grant an extension for submittal of the final written report.
- iii. The Permittee shall include a certification in the annual summary report (due according to the schedule in the MRP) that states that the sewer system emergency equipment, including alarm systems, backup pumps, standby power generators, and other critical emergency pump station components were maintained and tested in accordance with the Permittee's preventive maintenance plan. Any deviations from or modifications to the plan shall be discussed.

d. Records

The Permittee shall develop and maintain a record of all spills, overflows or bypasses of raw or partially treated sewage from its collection system or treatment plant. This record shall be made available to the Regional Water Board upon request and a spill summary shall be included in the annual summary report. The records shall contain:

- i. The date and time of each spill, overflow, or bypass;
- ii. The location of each spill, overflow, or bypass;
- iii. The estimated volume of each spill, overflow, and bypass including gross volume, amount recovered and amount not recovered, monitoring results as required by section VI.C.6.b;
- iv. The cause of each spill, overflow, or bypass;
- v. Whether each spill, overflow, or bypass entered a receiving water and, if so, the name of the water body and whether it entered via storm drains or other man-made conveyances;
- vi. Any mitigation measures implemented;
- vii. Any corrective measures implemented or proposed to be implemented to prevent/minimize future occurrences; and,
- viii. The mandatory information included in SSO online reporting for finalizing and certifying the SSO report for each spill, overflow, or bypass under the SSO WDR.

e. Activities Coordination

~~In addition, Although not required by this Order, Regional Water Board also expects that the POTW owners/operators watershed group to continue to work together regarding activities related to desalters, water uses, and the use of the brine line in order to comply with the requirements of this Order, in addition to meeting the deadlines in the Salts TMDL Implementation Plan. will coordinate their compliance activities for consistency and efficiency with other entities that have responsibilities to implement: (i) this NPDES permit, including the Pretreatment Program; (ii) a Municipal Separate Storm Sewer System (MS4) NPDES permit that may contain spill prevention, sewer maintenance, reporting requirements; and, (iii) the SSO WDR.~~

f. Consistency with SSO WDRs

The CWA prohibits the discharge of pollutants from point sources to surface waters of the United States unless authorized under an NPDES permit. (33 United States Code sections 1311, 1342). The State Water Board adopted *General Waste Discharge Requirements for Sanitary Sewer Systems*, (WQ Order No. 2006-0003-DWQ; SSO WDR) on May 2, 2006, to provide a consistent, statewide regulatory approach to address sanitary sewer overflows. The SSO WDR requires public agencies that own or operate sanitary sewer

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systems to apply for coverage under the SSO WDR, develop and implement sewer system management plans, and report all SSO to the State Water Board's online SSOs database. Regardless of the coverage obtained under the SSO WDR, the Permittee's collection system is part of the POTW that is subject to this NPDES permit. As such, pursuant to federal regulations, the Permittee must properly operate and maintain its collection system (40 CFR §122.41(e)), report any non-compliance (40 CFR §122.41(1)(6) and (7)), and mitigate any discharge from the collection system in violation of this NPDES permit (40 CFR §122.41(d)).

The requirements contained in this Order in sections VI.C.3.b (SCCP Plan section), VI.C.4 (Construction, Operation and Maintenance Specifications section), and VI.C.6 (Spill Reporting Requirements section) are intended to be consistent with the requirements of the SSO WDR. The Regional Water Board recognizes that there may be some overlap between these NPDES permit provisions and SSO WDR requirements, related to the collection systems. The requirements of the SSO WDR are considered the minimum thresholds (see finding 11 of State Water Board Order No. 2006-0003-DWQ). To encourage efficiency, the Regional Water Board will accept the documentation prepared by the Permittees under the SSO WDR for compliance purposes as satisfying the requirements in sections VI.C.3.b, VI.C.4, and VI.C.6 provided the more stringent provisions contained in this NPDES permit are also addressed. Pursuant to SSO WDR, section D, provision 2(iii) and (iv), the provisions of this NPDES permit supersede the SSO WDR, for all purposes, including enforcement, to the extent the requirements may be deemed duplicative

~~g. The Permittee shall provide standby or emergency power facilities and/or storage capacity or other means so that in the event of plant upset or outage due to power failure or other cause, discharge of raw or inadequately treated sewage does not occur.~~

7. Compliance Schedules

There are no compliance schedules included in this NPDES Order.

Table 6. Compliance Schedule for Final Effluent Limitations

Task No.	Description	Start Date	End Date
N/A			

VII. COMPLIANCE DETERMINATION

Compliance with the effluent limitations contained in section IV of this Order will be determined as specified below:

A. General

Compliance with effluent limitations for priority pollutants shall be determined using sample reporting protocols defined in the MRP and Attachment A of this Order. For purposes of reporting and administrative enforcement by the Regional and State Water

Boards, the Permittee shall be deemed out of compliance with effluent limitations if the concentration of the priority pollutant in the monitoring sample is greater than the effluent limitation and greater than or equal to the reporting level (RL).

B. Multiple Sample Data

When determining compliance with a measure of central tendency (arithmetic mean, geometric mean, median, etc.) of multiple sample analyses and the data set contains one or more reported determinations of DNQ or ND. In those cases, the Permittee shall compute the median in place of the arithmetic mean in accordance with the following procedure:

1. The data set shall be ranked from low to high, ranking the reported ND determinations lowest, DNQ determinations next, followed by quantified values (if any). The order of the individual ND or DNQ determinations is unimportant.
2. The median value of the data set shall be determined. If the data set has an odd number of data points, then the median is the middle value. If the data set has an even number of data points, then the median is the average of the two values around the middle unless one or both of the points are ND or DNQ, in which case the median value shall be the lower of the two data points where DNQ is lower than a value and ND is lower than DNQ.

C. Average Monthly Effluent Limitation (AMEL)

If the average (or when applicable, the median determined by subsection B above for multiple sample data) of daily discharges over a calendar month exceeds the AMEL for a given parameter, this will represent a single violation, though the Permittee may be considered out of compliance for each day of that month for that parameter (e.g., resulting in 31 days of non-compliance in a 31-day month). If only a single sample is taken during the calendar month and the analytical result for that sample exceeds the AMEL, the Permittee may be considered out of compliance for that calendar month. The Permittee will only be considered out of compliance for days when the discharge occurs. For any one calendar month during which no sample (daily discharge) is taken, no compliance determination can be made for that calendar month with respect to the AMEL.

If the analytical result of a single sample, monitored monthly, quarterly, semiannually, or annually, does not exceed the AMEL for a given parameter, the Permittee will have demonstrated compliance with the AMEL for each day of that month for that parameter.

If the analytical result of any single sample, monitored monthly, quarterly, semiannually, or annually, exceeds the AMEL for any parameter, the Permittee may collect up to four additional samples within the same calendar month. All analytical results shall be reported in the monitoring report for that month. The concentration of pollutant (an arithmetic mean or a median) in these samples estimated from the "Multiple Sample Data Reduction" section above, will be used for compliance determination.

In the event of noncompliance with an AMEL, the sampling frequency for that parameter shall be increased to weekly and shall continue at this level until compliance with the AMEL has been demonstrated.

D. Average Weekly Effluent Limitation (AWEL)

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If the average of daily discharges over a calendar week exceeds the AWEL for a given parameter, an alleged violation will be flagged and the Permittee will be considered out of compliance for each day of that week for that parameter, resulting in 7 days of non-compliance. The average of daily discharges over the calendar week that exceeds the AWEL for a parameter will be considered out of compliance for that week only. If only a single sample is taken during the calendar week and the analytical result for that sample exceeds the AWEL, the Permittee will be considered out of compliance for that calendar week. For any one calendar week during which no sample (daily discharge) is taken, no compliance determination can be made for that calendar week with respect to the AWEL.

A calendar week will begin on Sunday and end on Saturday. Partial calendar weeks at the end of calendar month will be carried forward to the next month in order to calculate and report a consecutive seven-day average value on Saturday.

E. Maximum Daily Effluent Limitation (MDEL)

If a daily discharge exceeds the MDEL for a given parameter, an alleged violation will be flagged and the Permittee will be considered out of compliance for that parameter for that one day only within the reporting period. For any one day during which no sample is taken, no compliance determination can be made for that day with respect to the MDEL.

F. Instantaneous Minimum Effluent Limitation

If the analytical result of a single grab sample is lower than the instantaneous minimum effluent limitation for a parameter, an alleged violation will be flagged and the Permittee will be considered out of compliance for that parameter for that single sample. Non-compliance for each sample will be considered separately (e.g., the results of two grab samples taken within a calendar day that both are lower than the instantaneous minimum effluent limitation would result in two instances of non-compliance with the instantaneous minimum effluent limitation).

G. Instantaneous Maximum Effluent Limitation

If the analytical result of a single grab sample is higher than the instantaneous maximum effluent limitation for a parameter, an alleged violation will be flagged and the Permittee will be considered out of compliance for that parameter for that single sample. Non-compliance for each sample will be considered separately (e.g., the results of two grab samples taken within a calendar day that both exceed the instantaneous maximum effluent limitation would result in two instances of non-compliance with the instantaneous maximum effluent limitation).

H. Six-month Median Effluent Limitation

If the median of daily discharges over a calendar month exceeds the MMEL for a given parameter, an alleged violation will be flagged and the Permittee will be considered out of compliance for each day of that month for that parameter (e.g., resulting in 31 days of non-compliance in a 31-day month). However, an alleged violation of the MMEL will be considered one violation for the purpose of assessing State mandatory minimum penalties. If no sample (daily discharge) is taken over a calendar month, no compliance determination can be made for that month with respect to effluent violation determination, but compliance determination can be made for that month with respect to reporting violation determination.

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I. Median Monthly Effluent Limitation (MMEL)

If the median of daily discharges over a calendar month exceeds the MMEL for a given parameter, an alleged violation will be flagged and the Permittee will be considered out of compliance for each day of that month for that parameter (e.g., resulting in 31 days of non-compliance in a 31-day month). However, an alleged violation of the MMEL will be considered one violation for the purpose of assessing State mandatory minimum penalties. If no sample (daily discharge) is taken over a calendar month, no compliance determination can be made for that month with respect to effluent violation determination, but compliance determination can be made for that month with respect to reporting violation determination.

J. Chronic Toxicity

The discharge is subject to determination of “Pass” or “Fail” and “Percent Effect” from a single-effluent concentration chronic toxicity test at the discharge IWC using the Test of Significant Toxicity (TST) approach described in National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document (EPA 833-R-10-003, 2010), Appendix A, Figure A-1, and Table A-1. The null hypothesis (Ho) for the TST approach is: Mean discharge IWC response $\leq 0.75 \times$ Mean control response. A test result that rejects this null hypothesis is reported as “Pass”. A test result that does not reject this null hypothesis is reported as “Fail”. The relative “Percent Effect” at the discharge IWC is defined and reported as: $((\text{Mean control response} - \text{Mean discharge IWC response}) \div \text{Mean control response}) \times 100$.

The Maximum Daily Effluent Limitation (MDEL) for chronic toxicity is exceeded and a violation will be flagged when a chronic toxicity test, analyzed using the TST approach, results in “Fail” and the “Percent Effect” is ≥ 0.50 .

The Median Monthly Effluent Limitation (MMEL) for chronic toxicity is exceeded and a violation will be flagged when the median of no more than three independent chronic toxicity tests, conducted within the same calendar month and analyzed using the TST approach, results in “Fail”. The MMEL for chronic toxicity shall only apply when there is a discharge more than one day in a calendar month period. During such calendar months, exactly three independent toxicity tests are required when one toxicity test results in “Fail”.

K. Percent Removal

The average monthly percent removal is the removal efficiency expressed in percentage across a treatment plant for a given pollutant parameter, as determined from the 30-day average values of pollutant concentrations (C in mg/L) of influent and effluent samples collected at about the same time using the following equation:

$$\text{Percent Removal (\%)} = [1 - (C_{\text{Effluent}}/C_{\text{Influent}})] \times 100 \%$$

When preferred, the Permittee may substitute mass loadings and mass emissions for the concentrations.

L. Mass and Concentration Limitations

Compliance with mass and concentration effluent limitations for the same parameter shall be determined separately with their respective limitations. When the concentration of a constituent in an effluent sample is determined to be ND or DNQ, the corresponding mass emission rate determined from that sample concentration shall also be reported as ND or DNQ.

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M. Compliance with single constituent effluent limitations

Permittees may be considered out of compliance with the effluent limitation if the concentration of the pollutant (see section B “Multiple Sample Data Reduction” above) in the monitoring sample is greater than the effluent limitation and greater than or equal to the RL.

N. Compliance with effluent limitations expressed as a sum of several constituents

Permittees are out of compliance with an effluent limitation which applies to the sum of a group of chemicals (e.g., PCB’s) if the sum of the individual pollutant concentrations is greater than the effluent limitation. Individual pollutants of the group will be considered to have a concentration of zero if the constituent is reported as ND or DNQ.

O. Compliance with Calleguas Creek Salts TMDL-based final effluent limitations

The Hill Canyon WWTP discharges to North Fork Arroyo Conejo, Reach 9B of the Calleguas Creek. Calleguas Creek and its tributaries are on the CWA section 303(d) list as impaired for TDS, Sulfate, Chloride, and Boron. For this discharge, the *Calleguas Creek Salts TMDL* has established seasonal WLAs for TDS, Sulfate, ~~and Chloride, and Boron~~. Federal regulations require that NPDES permits incorporate WQBELs consistent with the requirements and assumptions of any available WLAs.

WLAs established for the Hill Canyon WWTP in the *Salts TMDL* are implemented through final effluent limitations contained in this NPDES permit. No interim effluent limitations are provided. Compliance will be determined through monitoring of final effluent discharge as defined in this NPDES permit. The effluent limits are applied as end-of pipe mass-based monthly average effluent limits. A daily maximum effluent limit is not required because chloride is not expected to have an immediate or acute effect on the beneficial uses.

Hill Canyon WWTP’s mass-based WLAs are calculated as the POTW effluent flow rate multiplied by the water quality objective and include a mass-based adjustment factor (AF) that is subtracted from the product of the flow-rate and the water quality objective. AF is set equal to the difference between the minimum salts export requirement to attain a salt balance in the subject reaches and the actual salts export.

Dry-weather definition. The *Salts TMDL* WLAs apply to Hill Canyon WWTP during dry weather, when the flows in the receiving water are below the 86th percentile flow and there is no measurable precipitation. Dry weather conditions exist when flow in Calleguas Creek at California State University Channel Islands (CSUCI) is less than 31 cubic feet per second at USGS gauge station 11106550. During wet weather, the loading capacity of the stream is significantly increased by storm water flows with very low salt concentrations. Any discharges from the Facility during wet weather would be assimilated by these large storm flows and would not cause exceedances of water quality objectives.

The dry-weather final effluent limitation for Salts will be calculated as follows:

Given: Minimum Salt Export Requirements for Adjustment Factor

- Chloride = 1,060 lbs/day
- TDS = 7,920 lbs/day
- Sulfate = 4,610 lbs/day

Boron = 0 lbs/day

The formula for determining final effluent limitation (dry weather) applied as monthly average is as follows:

Chloride, lbs/day = 150 x Q-AF

TDS, lbs/day = 850 x Q-AF

Sulfate, lbs/day = 250 x Q-AF

Boron, lbs/day = 1.0 x Q-AF

where;

Q = the Facility's flow at the time the water quality measurement is collected and a conversion factor to lbs/day based on the units of measurement for the flow.

AF = (minimum salt export requirement – actual salt export)

However, use of AFs are subject to approval by the Regional Water Board, following the demonstration of evidence presented by the Discharger. POTWs wanting to use AFs must apply to the Regional Water Board for approval and submit the following documentation together with their request: water supply chloride concentrations; receiving water chloride concentrations; the effluent mass; and, evidence of increased salt exports to offset the increased discharges from the POTW.

Hill Canyon WWTP is currently not connected to the brine line and has no plan for connecting to the brine line in the near future. ~~Therefore, no salt export is expected from the City of Thousand Oaks through the brine line. The City of Thousand Oaks has not applied to the Regional Water Board for an adjustment factor. As a result, in this scenario,~~ the AF term in the formula above will be set equal to zero ~~since~~ until the City of Thousand Oaks requests and the Regional Board ~~has not approved~~ an AF for the Hill Canyon WWTP. As a result, the AF term will drop out of the equation, and the final effluent limitations are expressed as follows:

Chloride, lbs/day = 150 x Q = 150 x 14 X 8.34 = 17,500

TDS, lbs/day = 850 x Q = 850 x 14 X 8.34 = 99,250

Sulfate, lbs/day = 250 x Q = 250 x 14 X 8.34 = 29,200

where;

Q = represents the product of the Facility's design capacity and a conversion factor, to convert from MGD to lbs/day.

If an AF is approved, the permit will be reopened to adjust the finale ffluent limitations to reflect the approved AF.

Wet-weather definition. Wet-weather is any day when the flow in the receiving water is equal to or greater than the 86th percentile flow of the receiving water. Wet weather conditions exist when flow in Calleguas Creek at CSUCI is greater than or equal to 31 cubic feet per second at USGS gauge station 11106550. The wet-weather final effluent limitations applicable to Hill Canyon WWTP will be as follows:

The wet-weather final effluent limitation for Salts will be applied as follows:

Parameter	Units	Effluent Limitations (Average Monthly)
Chloride	mg/L	150
TDS	mg/L	850
Sulfate	mg/L	250

The wet-weather final effluent limitations listed above for TDS, chloride, and sulfate will apply on the effective date of this Order.

P. Compliance with Calleguas Creek Metals TMDL for Mercury in Suspended Solids

A mass-based limit was developed for mercury expressed in lbs/month. The final waste load allocation for the ~~Gamarillo-WRP~~Hill Canyon WWTP for mercury is based on median monthly mercury effluent concentrations which are currently more stringent than the number targets multiplied by the design flow. The *Metals TMDL* assumes that the total load in water is equal to suspended sediment load. In addition to the water column final effluent monitoring, sediment sampling of mercury in the effluent will need to be implemented, as specified in the Monitoring and Reporting Program, if both the TSS and the mercury final effluent limitations are exceeded.

Q. Mass Emission Rate

The mass emission rate shall be obtained from the following calculation for any calendar day:

$$\text{Mass emission rate (lb/day)} = \frac{8.34}{N} \sum_{i=1}^N Q_i C_i$$

$$\text{Mass emission rate (kg/day)} = \frac{3.79}{N} \sum_{i=1}^N Q_i C_i$$

in which 'N' is the number of samples analyzed in any calendar day. 'Qi' and 'Ci' are the flow rate (mgd) and the constituent concentration (mg/L), respectively, which are associated with each of the 'N' grab samples, which may be taken in any calendar day. If a composite sample is taken, 'Ci' is the concentration measured in the composite sample and 'Qi' is the average flow rate occurring during the period over which samples are composited.

The daily concentration of all constituents shall be determined from the flow-weighted average of the same constituents in the combined waste streams as follows:

$$\text{Daily concentration} = \frac{1}{Q_t} \sum_{i=1}^N Q_i C_i$$

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in which 'N' is the number of component waste streams. 'Qi' and 'Ci' are the flow rate (MGD) and the constituent concentration (mg/L), respectively, which are associated with each of the 'N' waste streams. 'Qt' is the total flow rate of the combined waste streams.

R. Bacterial Standards and Analysis

1. The geometric mean used for determining compliance with bacterial standards is calculated with the following equation:

$$\text{Geometric Mean} = (C_1 \times C_2 \times \dots \times C_n)^{1/n}$$

where n is the number of days samples were collected during the period and C is the concentration of bacteria (MPN/100 mL or CFU/100 mL) found on each day of sampling.

2. For bacterial analyses, sample dilutions should be performed so the expected range of values is bracketed (for example, with multiple tube fermentation method or membrane filtration method, 2 to 16,000 per 100 ml for total and fecal coliform, at a minimum, and 1 to 1000 per 100 ml for enterococcus). The detection methods used for each analysis shall be reported with the results of the analyses.
3. Detection methods used for coliforms (total and fecal) shall be those presented in Table 1A of 40 CFR part 136, unless alternate methods have been approved by USEPA pursuant to 40 CFR part 136, or improved methods have been determined by the Executive Officer and/or USEPA.
4. Detection methods used for enterococcus shall be those presented in Table 1A of 40 CFR part 136 or in the USEPA publication EPA 600/4-85/076, Test Methods for Escherichia coli and Enterococci in Water By Membrane Filter Procedure or any improved method determined by the Executive Officer and/or USEPA to be appropriate.

S. Single Operational Upset (SOU)

A SOU that leads to simultaneous violations of more than one pollutant parameter shall be treated as a single violation and limits the Permittee's liability in accordance with the following conditions:

1. A SOU is broadly defined as a single unusual event that temporarily disrupts the usually satisfactory operation of a system in such a way that it results in violation of multiple pollutant parameters.
2. A Permittee may assert SOU to limit liability only for those violations that the Permittee submitted notice of the upset as required in Provision V.E.2(b) of Attachment D – Standard Provisions.
3. For purposes outside of CWC section 13385, subdivisions (h) and (i), determination of compliance and civil liability (including any more specific definition of SOU, the requirements for Permittees to assert the SOU limitation of liability, and the manner of counting violations) shall be in accordance with USEPA Memorandum "Issuance of Guidance Interpreting Single Operational Upset" (September 27, 1989).
4. For purpose of CWC section 13385, subdivisions (h) and (i), determination of compliance and civil liability (including any more specific definition of SOU, the requirements for Permittees to assert the SOU limitation of liability, and the manner

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of counting violations) shall be in accordance with CWC section 13385, subdivision (f)(2).

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ATTACHMENT A – DEFINITIONS

Arithmetic Mean (μ)

Also called the average, is the sum of measured values divided by the number of samples. For ambient water concentrations, the arithmetic mean is calculated as follows:

Arithmetic mean = $\mu = \Sigma x / n$ where: Σx is the sum of the measured ambient water concentrations, and n is the number of samples.

Average Monthly Effluent Limitation (AMEL)

The highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

Average Weekly Effluent Limitation (AWEL)

The highest allowable average of daily discharges over a calendar week (Sunday through Saturday), calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.

Bioaccumulative

Those substances taken up by an organism from its surrounding medium through gill membranes, epithelial tissue, or from food and subsequently concentrated and retained in the body of the organism.

Biosolids

Sewage sludge that has been treated and tested and shown to be capable of being beneficially and legally used pursuant to federal and state regulations as a soil amendment for agricultural, silvicultural, horticultural, and land reclamation activities as specified under 40 C.F.R. Part 503.

Carcinogenic

Pollutants are substances that are known to cause cancer in living organisms.

Coefficient of Variation (CV)

CV is a measure of the data variability and is calculated as the estimated standard deviation divided by the arithmetic mean of the observed values.

Daily Discharge

Daily Discharge is defined as either: (1) the total mass of the constituent discharged over the calendar day (12:00 am through 11:59 pm) or any 24-hour period that reasonably represents a calendar day for purposes of sampling (as specified in the permit), for a constituent with limitations expressed in units of mass or; (2) the unweighted arithmetic mean measurement of the constituent over the day for a constituent with limitations expressed in other units of measurement (e.g., concentration).

The daily discharge may be determined by the analytical results of a composite sample taken over the course of one day (a calendar day or other 24-hour period defined as a day) or by the arithmetic mean of analytical results from one or more grab samples taken over the course of the day.

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For composite sampling, if 1 day is defined as a 24-hour period other than a calendar day, the analytical result for the 24-hour period will be considered as the result for the calendar day in which the 24-hour period ends.

Detected, but Not Quantified (DNQ)

DNQ are those sample results less than the RL, but greater than or equal to the laboratory’s MDL. Sample results reported as DNQ are estimated concentrations.

Dilution Credit

Dilution Credit is the amount of dilution granted to a discharge in the calculation of a water quality-based effluent limitation, based on the allowance of a specified mixing zone. It is calculated from the dilution ratio or determined through conducting a mixing zone study or modeling of the discharge and receiving water.

Effluent Concentration Allowance (ECA)

ECA is a value derived from the water quality criterion/objective, dilution credit, and ambient background concentration that is used, in conjunction with the coefficient of variation for the effluent monitoring data, to calculate a long-term average (LTA) discharge concentration. The ECA has the same meaning as waste load allocation (WLA) as used in USEPA guidance (Technical Support Document For Water Quality-based Toxics Control, March 1991, second printing, EPA/505/2-90-001).

Enclosed Bays

Enclosed Bays means indentations along the coast that enclose an area of oceanic water within distinct headlands or harbor works. Enclosed bays include all bays where the narrowest distance between the headlands or outermost harbor works is less than 75 percent of the greatest dimension of the enclosed portion of the bay. Enclosed bays include, but are not limited to, Humboldt Bay, Bodega Harbor, Tomales Bay, Drake’s Estero, San Francisco Bay, Morro Bay, Los Angeles-Long Beach Harbor, Upper and Lower Newport Bay, Mission Bay, and San Diego Bay. Enclosed bays do not include inland surface waters or ocean waters.

Estimated Chemical Concentration

The estimated chemical concentration that results from the confirmed detection of the substance by the analytical method below the ML value.

Estuaries

Estuaries means waters, including coastal lagoons, located at the mouths of streams that serve as areas of mixing for fresh and ocean waters. Coastal lagoons and mouths of streams that are temporarily separated from the ocean by sandbars shall be considered estuaries. Estuarine waters shall be considered to extend from a bay or the open ocean to a point upstream where there is no significant mixing of fresh water and seawater. Estuarine waters included, but are not limited to, the Sacramento-San Joaquin Delta, as defined in CWC section 12220, Suisun Bay, Carquinez Strait downstream to the Carquinez Bridge, and appropriate areas of the Smith, Mad, Eel, Noyo, Russian, Klamath, San Diego, and Otay rivers. Estuaries do not include inland surface waters or ocean waters.

Inland Surface Waters

All surface waters of the state that do not include the ocean, enclosed bays, or estuaries.

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Instantaneous Maximum Effluent Limitation

The highest allowable value for any single grab sample or aliquot (i.e., each grab sample or aliquot is independently compared to the instantaneous maximum limitation).

Instantaneous Minimum Effluent Limitation

The lowest allowable value for any single grab sample or aliquot (i.e., each grab sample or aliquot is independently compared to the instantaneous minimum limitation).

Maximum Daily Effluent Limitation (MDEL)

The highest allowable daily discharge of a pollutant, over a calendar day (or 24-hour period). For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the arithmetic mean measurement of the pollutant over the day.

Median

The middle measurement in a set of data. The median of a set of data is found by first arranging the measurements in order of magnitude (either increasing or decreasing order). If the number of measurements (n) is odd, then the median = $X_{(n+1)/2}$. If n is even, then the median = $(X_{n/2} + X_{(n/2)+1})/2$ (i.e., the midpoint between the n/2 and n/2+1).

Method Detection Limit (MDL)

MDL is the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero, as defined in 40 CFR part 136, Attachment B, revised as of July 3, 1999.

Minimum Level (ML)

ML is the concentration at which the entire analytical system must give a recognizable signal and acceptable calibration point. The ML is the concentration in a sample that is equivalent to the concentration of the lowest calibration standard analyzed by a specific analytical procedure, assuming that all the method specified sample weights, volumes, and processing steps have been followed.

Mixing Zone

Mixing Zone is a limited volume of receiving water that is allocated for mixing with a wastewater discharge where water quality criteria can be exceeded without causing adverse effects to the overall water body.

Not Detected (ND)

Sample results which are less than the laboratory's MDL.

Persistent Pollutants

Persistent pollutants are substances for which degradation or decomposition in the environment is nonexistent or very slow.

Pollutant Minimization Program (PMP)

PMP means waste minimization and pollution prevention actions that include, but are not limited to, product substitution, waste stream recycling, alternative waste management methods, and education of the public and businesses. The goal of the PMP shall be to reduce all potential sources of a priority pollutant(s) through pollutant minimization (control) strategies, including pollution prevention measures as appropriate, to maintain the effluent concentration at or below the water quality-based effluent limitation. Pollution prevention measures may be particularly

appropriate for persistent bioaccumulative priority pollutants where there is evidence that beneficial uses are being impacted. The Regional Water Board may consider cost effectiveness when establishing the requirements of a PMP. The completion and implementation of a Pollution Prevention Plan, if required pursuant to CWC section 13263.3(d), shall be considered to fulfill the PMP requirements.

Pollution Prevention

Pollution Prevention means any action that causes a net reduction in the use or generation of a hazardous substance or other pollutant that is discharged into water and includes, but is not limited to, input change, operational improvement, production process change, and product reformulation (as defined in CWC section 13263.3). Pollution prevention does not include actions that merely shift a pollutant in wastewater from one environmental medium to another environmental medium, unless clear environmental benefits of such an approach are identified to the satisfaction of the State Water Resources Control Board (State Water Board) or Regional Water Board.

Reporting Level (RL)

The RL is the ML (and its associated analytical method) chosen by the Permittee for reporting and compliance determination from the MLs included in this Order, including an additional factor if applicable as discussed herein. The MLs included in this Order correspond to approved analytical methods for reporting a sample result that are selected by the Regional Water Board either from Appendix 4 of the SIP in accordance with section 2.4.2 of the SIP or established in accordance with section 2.4.3 of the SIP. The ML is based on the proper application of method-based analytical procedures for sample preparation and the absence of any matrix interferences. Other factors may be applied to the ML depending on the specific sample preparation steps employed. For example, the treatment typically applied in cases where there are matrix-effects is to dilute the sample or sample aliquot by a factor of ten. In such cases, this additional factor must be applied to the ML in the computation of the RL.

Source of Drinking Water

Any water designated as municipal or domestic supply (MUN) in a Regional Water Board Basin Plan.

Standard Deviation (σ)

Standard Deviation is a measure of variability that is calculated as follows:

$$\sigma = (\sum[(x - \mu)^2]/(n - 1))^{0.5}$$

where:

x is the observed value;

μ is the arithmetic mean of the observed values; and

n is the number of samples.

Toxicity Reduction Evaluation (TRE)

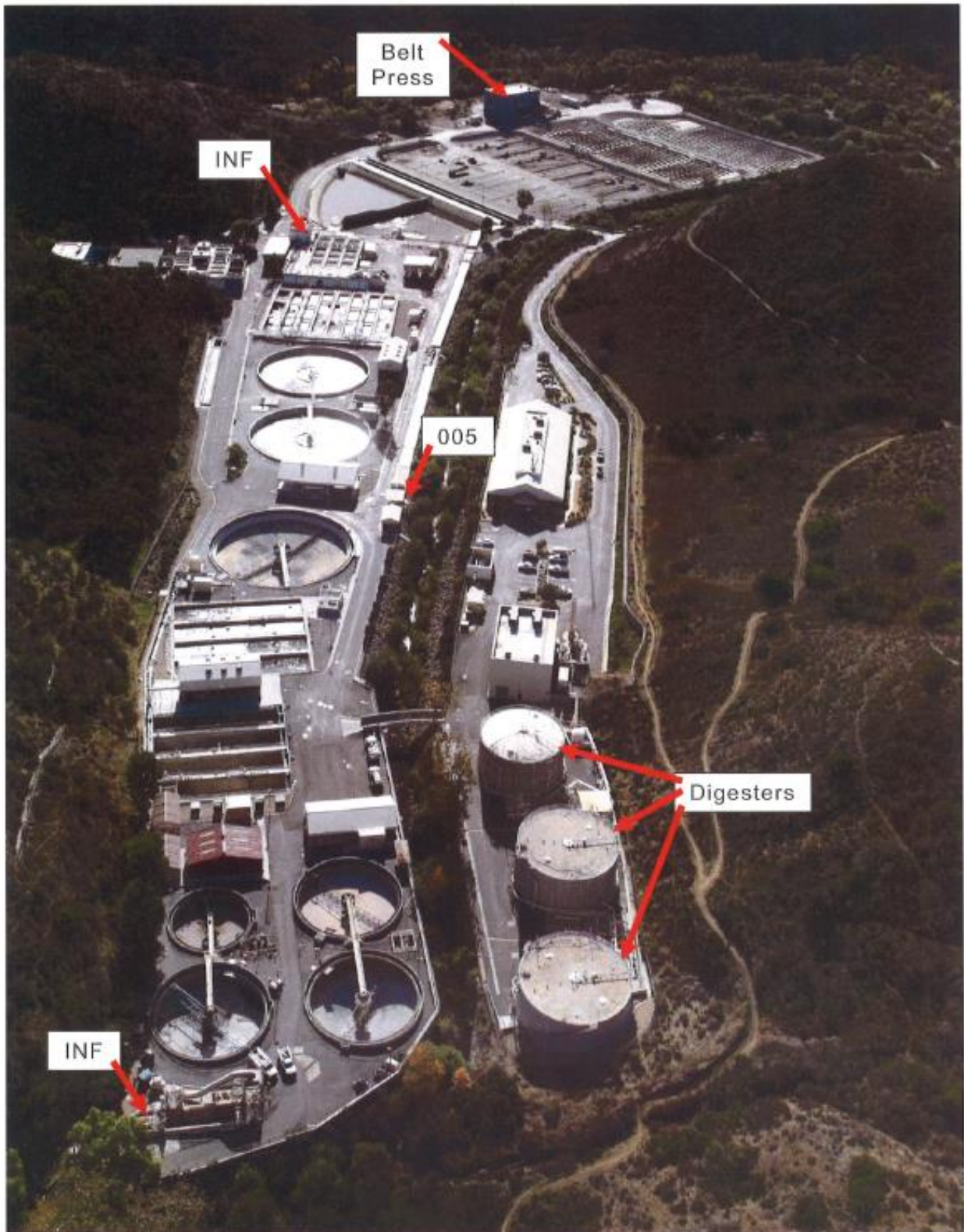
TRE is a study conducted in a step-wise process designed to identify the causative agents of effluent or ambient toxicity, isolate the sources of toxicity, evaluate the effectiveness of toxicity control options, and then confirm the reduction in toxicity. The first steps of the TRE consist of the collection of data relevant to the toxicity, including additional toxicity testing, and an evaluation of Facility operations and maintenance practices, and best management practices. A Toxicity Identification Evaluation (TIE) may be required as part of the TRE, if appropriate. (A TIE is a set of procedures to identify the specific chemical(s) responsible for toxicity. These procedures are performed in three phases (characterization, identification, and confirmation) using aquatic organism toxicity tests.)

ATTACHMENT B1 – MAP OF HILL CANYON WWTP & SURROUNDING AREA



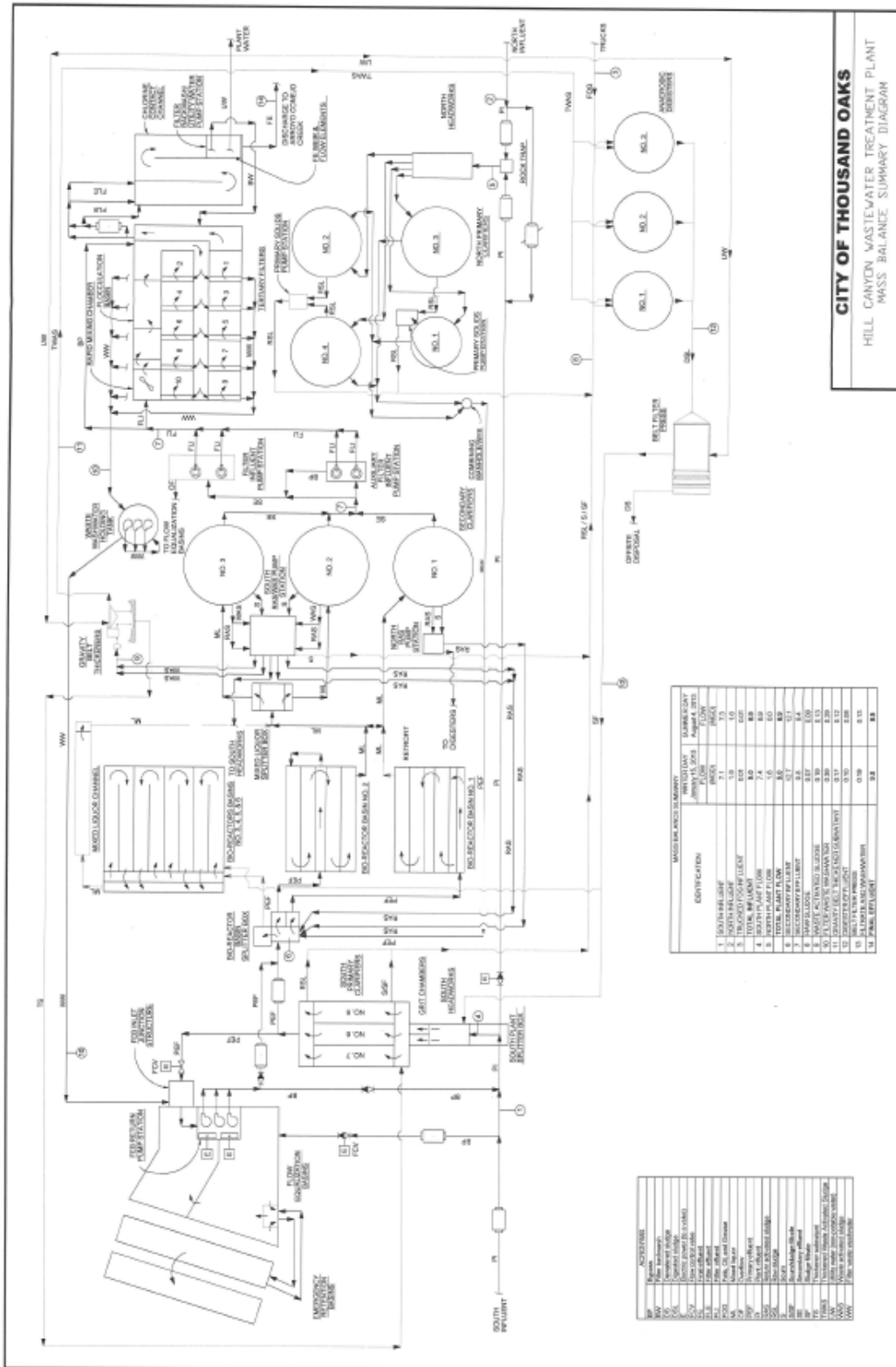
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ATTACHMENT B2 – MAP OF HILL CANYON WWTP



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ATTACHMENT C – FLOW SCHEMATIC



CITY OF THOUSAND OAKS
 HILL CANYON WASTEWATER TREATMENT PLANT
 MASS BALANCE SUMMARY DIAGRAM

TENTATIVE

DATE: 04/30/2014

ATTACHMENT D – STANDARD PROVISIONS

I. STANDARD PROVISIONS – PERMIT COMPLIANCE

A. Duty to Comply

1. The Permittee must comply with all of the terms, requirements, and conditions of this Order. Any noncompliance constitutes a violation of the Clean Water Act (CWA), its regulations, and the California Water Code (CWC) and is grounds for enforcement action, for permit termination, revocation and reissuance, or modification; denial of a permit renewal application; or a combination thereof. (40 CFR section 122.41(a); California Water Code (CWC) sections 13261, 13263, 13264, 13265, 13268, 13000, 13001, 13304, 13350, 13385.)
2. The Permittee shall comply with effluent standards or prohibitions established under Part 307(a) of the CWA for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions, even if this Order has not yet been modified to incorporate the requirement. (Title 40 of the Code of Federal Regulations (40 CFR) section 122.41(a)(1).)

B. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Order. (40 CFR § 122.41(c).)

C. Duty to Mitigate

The Permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this Order that has a reasonable likelihood of adversely affecting human health or the environment. (40 CFR § 122.41(d).)

D. Proper Operation and Maintenance

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this Order. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems that are installed by a Permittee only when necessary to achieve compliance with the conditions of this Order. (40 CFR § 122.41(e).)

E. Property Rights

1. This Order does not convey any property rights of any sort or any exclusive privileges. (40 CFR § 122.41(g).)
2. The issuance of this Order does not authorize any injury to persons or property or invasion of other private rights, or any infringement of state or local law or regulations. (40 CFR § 122.5(c).)

F. Inspection and Entry

The Permittee shall allow the Regional Water Board, State Water Board, USEPA, and/or their authorized representatives (including an authorized contractor acting as their representative), upon the presentation of credentials and other documents, as may be

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required by law, to (33 U.S.C. section 1318(a)(4)(B); 40 CFR § 122.41(i); CWC sections 13267 and 13383):

1. Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this Order (33 U.S.C. section 1318(a)(4)(B)(i); 40 CFR § 122.41(i)(1); CWC sections 13267 and 13383);
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order (33 U.S.C. section 1318(a)(4)(B)(ii); 40 CFR § 122.41(i)(2); CWC sections 13267 and 13383);
3. Inspect and photograph, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order (33 U.S.C. section 1318(a)(4)(B)(ii); 40 CFR § 122.41(i)(3); CWC sections 13267 and 13383); and
4. Sample or monitor, at reasonable times, for the purposes of assuring Order compliance or as otherwise authorized by the CWA or the CWC, any substances or parameters at any location. (33 U.S.C. section 1318(a)(4)(B); 40 CFR § 122.41(i)(4); CWC sections 13267 and 13383)

G. Bypass

1. Definitions

- a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. (40 CFR § 122.41(m)(1)(i).)
- b. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities, which causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production. (40 CFR § 122.41(m)(1)(ii).)

2. *Bypass not exceeding limitations.* The Permittee may allow any bypass to occur which does not cause exceedances of effluent limitations, but only if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions listed in Standard Provisions – Permit Compliance I.G.3, I.G.4, and I.G.5 below. (40 CFR § 122.41(m)(2).)

3. *Prohibition of bypass.* Bypass is prohibited, and the Regional Water Board may take enforcement action against a Permittee for bypass, unless (40 CFR § 122.41(m)(4)(i)):
 - a. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage (40 CFR § 122.41(m)(4)(i)(A));
 - b. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance (40 CFR § 122.41(m)(4)(i)(B)); and

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- c. The Permittee submitted notice to the Regional Water Board as required under Standard Provisions – Permit Compliance I.G.5 below. (40 CFR § 122.41(m)(4)(i)(C).)
- 4. The Regional Water Board may approve an anticipated bypass, after considering its adverse effects, if the Regional Water Board determines that it will meet the three conditions listed in Standard Provisions – Permit Compliance I.G.3 above. (40 CFR § 122.41(m)(4)(ii).)
- 5. Notice
 - a. *Anticipated bypass.* If the Permittee knows in advance of the need for a bypass, it shall submit a notice, if possible at least 10 days before the date of the bypass. (40 CFR § 122.41(m)(3)(i).)
 - b. *Unanticipated bypass.* The Permittee shall submit notice of an unanticipated bypass as required in Standard Provisions - Reporting V.E below (24-hour notice). (40 CFR § 122.41(m)(3)(ii).)

H. Upset

Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the Permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation. (40 CFR § 122.41(n)(1).)

- 1. *Effect of an upset.* An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of Standard Provisions – Permit Compliance I.H.2 below are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review. (40 CFR § 122.41(n)(2).)
- 2. *Conditions necessary for a demonstration of upset.* A Permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence that (40 CFR § 122.41(n)(3)):
 - a. An upset occurred and that the Permittee can identify the cause(s) of the upset (40 CFR § 122.41(n)(3)(i));
 - b. The permitted facility was, at the time, being properly operated (40 CFR § 122.41(n)(3)(ii));
 - c. The Permittee submitted notice of the upset as required in Standard Provisions – Reporting V.E.2.b below (24-hour notice) (40 CFR § 122.41(n)(3)(iii)); and
 - d. The Permittee complied with any remedial measures required under Standard Provisions – Permit Compliance I.C above. (40 CFR § 122.41(n)(3)(iv).)
- 3. *Burden of proof.* In any enforcement proceeding, the Permittee seeking to establish the occurrence of an upset has the burden of proof. (40 CFR § 122.41(n)(4).)

II. STANDARD PROVISIONS – PERMIT ACTION

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A. General

This Order may be modified, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any Order condition. (40 CFR § 122.41(f).)

B. Duty to Reapply

If the Permittee wishes to continue an activity regulated by this Order after the expiration date of this Order, the Permittee must apply for and obtain a new permit. (40 CFR § 122.41(b).)

C. Transfers

This Order is not transferable to any person except after notice to the Regional Water Board. The Regional Water Board may require modification or revocation and reissuance of the Order to change the name of the Permittee and incorporate such other requirements as may be necessary under the CWA and the CWC. (40 CFR § 122.41(l)(3) and §122.61.)

III. STANDARD PROVISIONS – MONITORING

- A.** Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. (40 CFR § 122.41(j)(1).)
- B.** Monitoring results must be conducted according to test procedures under 40 CFR part 136 or, in the case of sludge use or disposal, approved under 40 CFR part 136 unless otherwise specified in 40 CFR part 503 unless other test procedures have been specified in this Order. (40 CFR § 122.41(j)(4); part 122.44(i)(1)(iv).)

IV. STANDARD PROVISIONS – RECORDS

- A.** Except for records of monitoring information required by this Order related to the Permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR part 503), the Permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this Order, and records of all data used to complete the application for this Order, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Regional Water Board Executive Officer at any time. (40 CFR § 122.41(j)(2).)
- B.** Records of monitoring information shall include:
 - 1. The date, exact place, and time of sampling or measurements (40 CFR § 122.41(j)(3)(i));
 - 2. The individual(s) who performed the sampling or measurements (40 CFR § 122.41(j)(3)(ii));
 - 3. The date(s) analyses were performed (40 CFR § 122.41(j)(3)(iii));
 - 4. The individual(s) who performed the analyses (40 CFR § 122.41(j)(3)(iv));
 - 5. The analytical techniques or methods used (40 CFR § 122.41(j)(3)(v)); and

6. The results of such analyses. (40 CFR § 122.41(j)(3)(vi).)
- C. Claims of confidentiality for the following information will be denied (40 CFR § 122.7(b)):
 1. The name and address of any permit applicant or Permittee (40 CFR § 122.7(b)(1)); and
 2. Permit applications and attachments, permits and effluent data. (40 CFR § 122.7(b)(2).)

V. STANDARD PROVISIONS – REPORTING

A. Duty to Provide Information

The Permittee shall furnish to the Regional Water Board, State Water Board, or USEPA within a reasonable time, any information which the Regional Water Board, State Water Board, or USEPA may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order or to determine compliance with this Order. Upon request, the Permittee shall also furnish to the Regional Water Board, State Water Board, or USEPA copies of records required to be kept by this Order. (40 CFR § 122.41(h); Wat. Code, section 13267 and 13383.)

B. Signatory and Certification Requirements

1. All applications, reports, or information submitted to the Regional Water Board, State Water Board, and/or USEPA shall be signed and certified in accordance with Standard Provisions – Reporting V.B.2, V.B.3, V.B.4, and V.B.5 below. (40 CFR § 122.41(k).)
2. *Signatory requirements for a municipality, State, Federal, or other public agency.* All applications submitted to the Regional Water Board shall be signed by either a principal executive officer or ranking elected official. For purposes of this provision, a principal executive officer of a federal agency includes: (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of USEPA). (40 CFR § 122.22(a)(3).)
3. All reports required by this Order and other information requested by the Regional Water Board, State Water Board, or USEPA shall be signed by a person described in Standard Provisions – Reporting V.B.2 above, or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described in Standard Provisions – Reporting V.B.2 above (40 CFR § 122.22(b)(1));
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.) (40 CFR § 122.22(b)(2)); and
 - c. The written authorization is submitted to the Regional Water Board and State Water Board. (40 CFR § 122.22(b)(3).)

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4. If an authorization under Standard Provisions – Reporting V.B.3 above is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Standard Provisions – Reporting V.B.3 above must be submitted to the Regional Water Board and State Water Board prior to or together with any reports, information, or applications, to be signed by an authorized representative. (40 CFR § 122.22(c).)
5. Any person signing a document under Standard Provisions – Reporting V.B.2 or V.B.3 above shall make the following certification:

“I certify under penalty of law that this document and all attachments were prepared under my direction or 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.” (40 CFR § 122.22(d).)

C. Monitoring Reports

1. Monitoring results shall be reported at the intervals specified in the Monitoring and Reporting Program (Attachment E) in this Order. (40 CFR § 122.41(l)(4).)
2. Monitoring results must be reported on a Discharge Monitoring Report (DMR) form or forms provided or specified by the Regional Water Board or State Water Board for reporting results of monitoring of sludge use or disposal practices. (40 CFR § 122.41(l)(4)(i).)
3. If the Permittee monitors any pollutant more frequently than required by this Order using test procedures approved under 40 CFR part 136, or another method required for an industry-specific waste stream under 40 CFR subchapters N or O, the results of such monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the Regional Water Board. (40 CFR § 122.41(l)(4)(ii).)
4. Calculations for all limitations, which require averaging of measurements, shall utilize an arithmetic mean unless otherwise specified in this Order. (40 CFR § 122.41(l)(4)(iii).)

D. Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Order, shall be submitted no later than 14 days following each schedule date. (40 CFR § 122.41(l)(5).)

E. Twenty-Four Hour Reporting

1. The Permittee shall report any noncompliance that may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the Permittee becomes aware of the circumstances. A written submission shall also be provided within five (5) days of the time the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is

expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. (40 CFR § 122.41(l)(6)(i).)

2. The following shall be included as information that must be reported within 24 hours under this paragraph (40 CFR § 122.41(l)(6)(ii)):
 - a. Any unanticipated bypass that exceeds any effluent limitation in this Order. (40 CFR § 122.41(l)(6)(ii)(A).)
 - b. Any upset that exceeds any effluent limitation in this Order. (40 CFR § 122.41(l)(6)(ii)(B).)
3. The Regional Water Board may waive the above-required written report under this provision on a case-by-case basis if an oral report has been received within 24 hours. (40 CFR § 122.41(l)(6)(iii).)

F. Planned Changes

The Permittee shall give notice to the Regional Water Board as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required under this provision only when (40 CFR § 122.41(l)(1)):

1. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in § 122.29(b) (40 CFR § 122.41(l)(1)(i)); or
2. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations in this Order nor to notification requirements under part 122.42(a)(1) (see Additional Provisions—Notification Levels VII.A.1). (40 CFR § 122.41(l)(1)(ii).)
3. The alteration or addition results in a significant change in the Permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan. (40 CFR § 122.41(l)(1)(iii).)

G. Anticipated Noncompliance

The Permittee shall give advance notice to the Regional Water Board or State Water Board of any planned changes in the permitted facility or activity that may result in noncompliance with this Order's requirements. (40 CFR § 122.41(l)(2).)

H. Other Noncompliance

The Permittee shall report all instances of noncompliance not reported under Standard Provisions – Reporting V.C, V.D, and V.E above at the time monitoring reports are submitted. The reports shall contain the information listed in Standard Provision – Reporting V.E above. (40 CFR § 122.41(l)(7).)

I. Other Information

When the Permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Regional Water Board, State Water Board, or USEPA, the Permittee shall promptly submit such facts or information. (40 CFR § 122.41(l)(8).)

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VI. STANDARD PROVISIONS – ENFORCEMENT

- A. The Regional Water Board is authorized to enforce the terms of this permit under several provisions of the CWC, including, but not limited to, sections 13268, 13385, 13386, and 13387.
- B. The CWA provides that any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the CWA, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the CWA, is subject to a civil penalty not to exceed \$25,000 per day for each violation. The CWA provides that any person who *negligently* violates sections 301, 302, 306, 307, 308, 318, or 405 of the CWA, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the CWA, or any requirement imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the CWA, is subject to criminal penalties of \$2,500 to \$25,000 per day of violation, or imprisonment of not more than one year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than \$50,000 per day of violation, or by imprisonment of not more than two years, or both. Any person who *knowingly* violates such conditions or limitations is subject to criminal penalties of \$5,000 to \$50,000 per day of violation, or imprisonment for not more than three years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than \$100,000 per day of violation, or imprisonment of not more than 6 years, or both. Any person who *knowingly* violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the CWA, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the CWA, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than \$500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than \$1,000,000 and can be fined up to \$2,000,000 for second or subsequent convictions (40 CFR § 122.41(a)(2); CWC section 13385 and 13387).
- C. Any person may be assessed an administrative penalty by the Administrator of USEPA, the Regional Water Board, or State Water Board for violating section 301, 302, 306, 307, 308, 318 or 405 of this CWA, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the CWA. Administrative penalties for Class I violations are not to exceed \$10,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed \$25,000. Penalties for Class II violations are not to exceed \$10,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed \$125,000. (40 CFR § 122.41(a)(3))
- D. The CWA provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than two years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than four years, or both. (40 CFR § 122.41(j)(5)).

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- E. The CWA provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six months per violation, or by both. (40 CFR § 122.41(k)(2)).

VII. ADDITIONAL PROVISIONS – NOTIFICATION LEVELS

A. Publicly-Owned Treatment Works (POTWs)

All POTWs shall provide adequate notice to the Regional Water Board of the following (40 CFR § 122.42(b)):

1. Any new introduction of pollutants into the POTW from an indirect Permittee that would be subject to sections 301 or 306 of the CWA if it were directly discharging those pollutants (40 CFR § 122.42(b)(1)); and
2. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of adoption of the Order. (40 CFR § 122.42(b)(2).)
3. Adequate notice shall include information on the quality and quantity of effluent introduced into the POTW as well as any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW. (40 CFR § 122.42(b)(3).)

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ATTACHMENT E – MONITORING AND REPORTING PROGRAM

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ATTACHMENT E – MONITORING AND REPORTING PROGRAM (MRP), CI-4917

Section 308(a) of the federal Clean Water Act and sections 122.41(h), (j)-(l), 122.44(i), and 122.48 of Title 40 of the Code of Federal Regulations (40 CFR) requires that all NPDES permits specify monitoring and reporting requirements. California Water Code (CWC) sections 13267 and 13383 also authorizes the Regional Water Board to establish monitoring, inspection, entry, reporting, and recordkeeping requirements. This MRP establishes monitoring, reporting, and recordkeeping requirements that implement federal and California laws and/or regulations.

I. GENERAL MONITORING PROVISIONS

- A.** All samples shall be representative of the waste discharge under conditions of peak load. Quarterly effluent analyses shall be performed during the months of February, May, August, and November. Semiannual analyses shall be performed during the months of February and August. Annual analyses shall be performed during the month of August. Should there be instances when monitoring could not be done during these specified months, the Permittee must notify the Regional Water Board, state the reason why monitoring could not be conducted, and obtain approval from the Executive Officer for an alternate schedule. Results of quarterly, semiannual, and annual analyses shall be reported as due date specified in Table E-6 of MRP.
- B.** Pollutants shall be analyzed using the analytical methods described in 40 CFR sections 136.3, 136.4, and 136.5; or where no methods are specified for a given pollutant, by methods approved by this Regional Water Board or the State Water Board. Laboratories analyzing effluent samples and receiving water samples shall be certified by the California Department of Public Health (CDPH) Environmental Laboratory Accreditation Program (ELAP) or approved by the Executive Officer and must include quality assurance/quality control (QA/QC) data in their reports. A copy of the laboratory certification shall be provided in the Annual Report due to the Regional Water Board each time a new certification and/or renewal of the certification is obtained from ELAP.
- C.** Water/wastewater samples must be analyzed within allowable holding time limits as specified in 40 CFR section 136.3. All QA/QC analyses must be run on the same dates that samples are actually analyzed. The Permittee shall retain the QA/QC documentation in its files and make available for inspection and/or submit them when requested by the Regional Water Board. Proper chain of custody procedures must be followed and a copy of that documentation shall be submitted with the monthly report.
- D.** The Permittee shall calibrate and perform maintenance procedures on all monitoring instruments and to ensure accuracy of measurements, or shall ensure that both equipment activities will be conducted.
- E.** For any analyses performed for which no procedure is specified in the United States Environmental Protection Agency (USEPA) guidelines, or in the MRP, the constituent or parameter analyzed and the method or procedure used must be specified in the monitoring report.
- F.** Each monitoring report must affirm in writing that “all analyses were conducted at a laboratory certified for such analyses by the CDPH or approved by the Executive Officer and in accordance with current USEPA guideline procedures or as specified in this Monitoring and Reporting Program.”

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- G. The monitoring report shall specify the USEPA analytical method used, the Method Detection Limit (MDL), and the Reporting Level (RL) [the applicable minimum level (ML) or reported Minimum Level (RML)] for each pollutant. The MLs are those published by the State Water Resources Control Board (State Water Board) in the *Policy for the Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California, (State Implementation Policy or SIP)*, February 9, 2005, Appendix 4. The ML represents the lowest quantifiable concentration in a sample based on the proper application of all method-based analytical procedures and the absence of any matrix interference. When all specific analytical steps are followed and after appropriate application of method specific factors, the ML also represents the lowest standard in the calibration curve for that specific analytical technique. When there is deviation from the method analytical procedures, such as dilution or concentration of samples, other factors may be applied to the ML depending on the sample preparation. The resulting value is the reported ML.
- H. The Permittee shall select the analytical method that provides a ML lower than the permit limit established for a given parameter, unless the Permittee can demonstrate that a particular ML is not attainable, in accordance with procedures set forth in 40 CFR part 136, and obtains approval for a higher ML from the Executive Officer, as provided for in section J, below. If the effluent limitation is lower than all the MLs in Appendix 4, SIP, the Discharge must select the method with the lowest ML for compliance purposes. The Permittee shall include in the Annual Summary Report a list of the analytical methods employed for each test.
- I. The Permittee shall instruct its laboratories to establish calibration standards so that the ML (or its equivalent if there is differential treatment of samples relative to calibration standards) is the lowest calibration standard. At no time is the Permittee to use analytical data derived from extrapolation beyond the lowest point of the calibration curve. In accordance with section J, below, the Permittee's laboratory may employ a calibration standard lower than the ML in Appendix 4 of the SIP.
- J. In accordance with section 2.4.3 of the SIP, the Regional Water Board Executive Officer, in consultation with the State Water Board's Quality Assurance Program Manager, may establish an ML that is not contained in Appendix 4 of the SIP to be included in the Permittee's permit in any of the following situations:
 - a. When the pollutant under consideration is not included in Appendix 4, SIP;
 - b. When the Permittee and the Regional Water Board agree to include in the permit a test method that is more sensitive than those specified in 40 CFR part 136;
 - c. When the Permittee agrees to use an ML that is lower than those listed in Appendix 4;
 - d. When the Permittee demonstrates that the calibration standard matrix is sufficiently different from that used to establish the ML in Appendix 4 and proposes an appropriate ML for the matrix; or,
 - e. When the Permittee uses a method, which quantification practices are not consistent with the definition of the ML. Examples of such methods are USEPA-approved method 1613 for dioxins, and furans, method 1624 for volatile organic substances, and method 1625 for semi-volatile organic substances. In such cases, the Permittee, the

Regional Water Board, and the State Water Board shall agree on a lowest quantifiable limit and that limit will substitute for the ML for reporting and compliance determination purposes.

If there is any conflict between foregoing provisions and the SIP, the provisions stated in the SIP (section 2.4) shall prevail.

- K. If the Permittee samples and performs analyses (other than for process/operational control, startup, research, or equipment testing) on any influent, effluent, or receiving water constituent more frequently than required by this MRP using approved analytical methods, the results of those analyses shall be included in the report. These results shall be reflected in the calculation of the average used in demonstrating compliance with limitations set forth in this Order.
- L. The Permittee shall develop and maintain a record of all spills or bypasses of raw or partially treated sewage from its collection system or treatment plant according to the requirements in the WDR section of this Order. This record shall be made available to the Regional Water Board upon request and a spill summary shall be included in the annual summary report.
- M. For all bacteriological analyses, sample dilutions should be performed so the expected range of values is bracketed (for example, with multiple tube fermentation method or membrane filtration method, 2 to 16,000 per 100 ml for total and fecal coliform, at a minimum, and 1 to 1000 per 100 ml for *enterococcus*). The detection methods used for each analysis shall be reported with the results of the analyses.
 - a. Detection methods used for coliforms (total and fecal) shall be those presented in Table 1A of 40 CFR part 136, unless alternate methods have been approved in advance by the USEPA pursuant to 40 CFR part 136.
 - b. Detection methods used for ~~enterococcus~~E.coli shall be those presented in Table 1A of 40 CFR part 136 or in the USEPA publication EPA 600/4-85/076, *Test Methods for Escherichia coli and Enterococci in Water By Membrane Filter Procedure*, or any improved method determined by the Regional Water Board to be appropriate.
- N. Since compliance monitoring focuses on the effects of a point source discharge, it is not designed to assess impacts from other sources of pollution (e.g., non-point source run-off, aerial fallout) or to evaluate the current status of important ecological resources on a regional basis.

The Permittee shall participate in the implementation of and comply with the Watershed-wide Monitoring Program. The City's responsibilities under the Watershed-wide Monitoring Program are described in the Receiving Water Monitoring Requirements section. To achieve the goals of the Watershed-wide Monitoring Program, revisions to the Receiving Water Monitoring Requirements will be made under the direction of USEPA and the Regional Water Board. ~~The City has participated with stakeholders in the Calleguas Creek Watershed, to develop the watershed-wide monitoring program.~~ The Permittee shall ~~implement the watershed-wide monitoring program and shall submit quarterly progress annual reports providing the monitoring data collected during the calendar year, as well as an interpretation of the significance of the results with respect to the health of the watershed detailing ongoing efforts towards the implementation of the Watershed-wide Monitoring Program. The first report should be received in the Regional Water Board office by January 15, 2015. Annual reports shall be submitted by July 1st of each~~

year. The first annual report covering the period from January 1-December 31, 2014 should be received in the Regional Water Board office by July 1, 2015.

Changes to the compliance monitoring program may be required to fulfill the goals of the watershed-wide monitoring program, while retaining the compliance monitoring component required to evaluate compliance with the NPDES permit. Revisions to the Permittee’s program will be made under the direction of the Regional Water Board, as necessary, to accomplish the goal, and may include a reduction or increase in the number of parameters to be monitored, the frequency of monitoring, and/or the number of samples collected.

Until such time when a watershed-wide monitoring program is developed, Hill Canyon WWTP shall implement the monitoring program in ~~the following~~ sections IX.C of this MRP.

II. MONITORING LOCATIONS

The Permittee shall establish the following monitoring locations to demonstrate compliance with the effluent limitations, discharge specifications, and other requirements in this Order:

Table E-1. Monitoring Station Locations

Discharge Point Name	Monitoring Location Name	Monitoring Location Description
Influent Monitoring Station		
--	INF-001	Sampling stations shall be established at each point of inflow to the sewage treatment plant and shall be located upstream of any in-plant return flows and where representative samples of the influent can be obtained.
Effluent Monitoring Stations		
005	EFF-005	The effluent sampling station shall be located downstream of any inplant return flows and after the final disinfection process, where representative samples of the effluent can be obtained. Under normal conditions, treated effluent is discharged through Discharge Point 005: Latitude 34°12' 38" and Longitude 118°55'12"
Receiving Water Monitoring Stations		
--	RSW-001U	North Fork Arroyo Conejo, 50 feet upstream of Discharge Serial No. 005
--	RSW-002D	North Fork Arroyo Conejo, 200 feet downstream of Discharge Serial No. 005
TMDL Dry- and Wet-Weather Flow Monitoring Station		
--	RSW-003D	<i>Salts TMDL</i> stream flow monitoring station at Calleguas Creek near California State University Channel Islands (CSUCI). For the purposes of this permit, this station is also known as RSW-003D (<u>USGS gauge 805_11106550</u>).

The North latitude and West longitude information in Table 1 are approximate for administrative purposes.

III. INFLUENT MONITORING REQUIREMENTS

Influent monitoring is required to:

- Determine compliance with NPDES permit conditions.

- Assess treatment plant performance.
- Assess effectiveness of the Pretreatment Program

A. Monitoring Location INF-001

1. The Permittee shall monitor influent to the Facility at INF-001 as follows:

Table E-2. Influent Monitoring

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Flow	mgd	recorder	continuous ¹	1
pH	pH unit	grab	weekly	2
Total suspended solids (TSS)	mg/L	24-hour composite	weekly	2
Biochemical oxygen demand (BOD ₅ 20°C)	mg/L	24-hour composite	weekly	2
TDS	mg/L	24-hour composite	quarterly	2
Chloride	mg/L	24-hour composite	quarterly	2
Sulfate	mg/L	24-hour composite	quarterly	2
Ammonia as N	mg/L	24-hour composite	quarterly	2
Nitrate plus nitrite as N	mg/L	24-hour composite	quarterly	2
Total nitrogen	mg/L	24-hour composite	quarterly	2
Beryllium	µg/L	24-hour composite	quarterly	2
Copper	µg/L	24-hour composite	quarterly	2
Mercury	µg/L	24-hour composite	quarterly	2
Nickel	µg/L	24-hour composite	quarterly	2
Cyanide	µg/L	24-hour composite	quarterly	2
Bis(2-ethylhexyl) phthalate	µg/L	24-hour composite	quarterly	2
Remaining EPA priority pollutants ³ excluding asbestos	µg/L	24-hour composite/grab for VOCs, cyanide , and Chromium VI	semiannually	2

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IV. EFFLUENT MONITORING REQUIREMENTS

Effluent monitoring is required to:

- ¹ Total daily flow and instantaneous peak daily flow (24-hr basis). Actual monitored flow shall be reported (not the maximum flow, i.e., design capacity).
- ² Pollutants shall be analyzed using the analytical methods described in 40 CFR part 136; where no methods are specified for a given pollutant, by methods approved by this Regional Water Board or State Water Board. For any pollutant whose effluent limitation is lower than all the MLs specified in Attachment 4 of the SIP, the analytical method with the lowest ML must be selected.
- ³ Priority pollutants are those constituents referred to in 40 CFR § 401.15; a list of these pollutants is provided as Appendix A to 40 CFR part 423. PCB as aroclors shall be analyzed using method EPA 608 and PCB as congeners shall be analyzed using method EPA 1668c.

- Determine compliance with National Pollutant Discharge Elimination System (NPDES) permit conditions and water quality standards.
- Assess plant performance, identify operational problems and improve plant performance.
- Provide information on wastewater characteristics and flows for use in interpreting water quality and biological data.
- Determine reasonable potential analysis for toxic pollutants.

A. Monitoring Location EFF-005

1. The Permittee shall monitor the discharge of tertiary-treated effluent at EFF-005 follows. If more than one analytical test method is listed for a given parameter, the Permittee must select from the listed methods and corresponding Minimum Level:

Table E-3. Effluent Monitoring

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method and (Minimum Level, units), respectively
Total waste flow	mgd	recorder	continuous ⁴	5 ⁵
Turbidity	NTU	recorder	continuous ⁴	5
Total residual chlorine	mg/L	recorder	continuous ⁶	--
Total residual chlorine	mg/L	grab	daily ⁷	5
Total coliform	MPN/100mL or CFU/100mL	grab	daily ⁸	5
Fecal coliform	MPN/100mL or CFU/100mL	grab	daily ⁸	5
E. coli	MPN/100mL or CFU/100mL	grab	daily ⁹	5

⁴ Where continuous monitoring of a constituent is required, the following shall be reported:
Total waste flow – Total daily and peak daily flow (24-hour basis);
Turbidity – maximum daily value, total amount of time each day the turbidity exceeded five turbidity units, flow-proportioned average daily value. Grab sample can be used to determine compliance with the 10 NTU limit.

Electronic recorded information may replace the strip chart formerly used for flow recording.

⁵ Pollutants shall be analyzed using the analytical methods described in 40 CFR 136; where no methods are specified for a given pollutant, by methods approved by this Regional Water Board or State Water Resources Control Board. For any pollutant whose effluent limitation is lower than all the minimum levels (MLs) specified in Attachment 4 of the SIP, the analytical method with the lowest ML must be selected.

⁶ When chlorination is used, total residual chlorine (TRC) shall be recorded continuously. The recorded data shall be maintained by the Permittee for at least five years. The Permittee shall extract the maximum daily peak, minimum daily, and average daily from the recorded media and shall be made available upon request of the Regional Water Board. The continuous monitoring data are not intended to be used for compliance determination purposes.

⁷ When chlorination is used, daily grab samples shall be collected during peak flow at monitoring location EFF-005, Monday through Friday only, except for holidays. Analytical results of daily grab samples will be used to determine compliance with total residual chlorine effluent limitation. Furthermore, additional monitoring requirements specified in section IV.A.2. shall be followed.

⁸ Daily samples shall be collected Monday through Friday, except for holidays.

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Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method and (Minimum Level, units), respectively
Temperature	°F	grab	weekly	5
pH	pH units	grab	weekly	5
Settleable solids	mL/L	grab	weekly	5
Total suspended solids ¹⁰	mg/L	24-hour composite	weekly	5
BOD ₅ 20°C	mg/L	24-hour composite	weekly	5
Oil and grease	mg/L	grab	quarterly	5
Dissolved oxygen	mg/L	grab	quarterly	5
Total Dissolved Solids	mg/L	24-hour composite	monthly	5
Sulfate	mg/L	24-hour composite	monthly	5
Chloride	mg/L	24-hour composite	monthly	5
Boron	mg/L	24-hour composite	monthly	5
Ammonia Nitrogen	mg/L	24-hour composite	monthly	5
Nitrite nitrogen	mg/L	24-hour composite	monthly	5
Nitrate nitrogen	mg/L	24-hour composite	monthly	5
Organic nitrogen	mg/L	24-hour composite	monthly	5
Total nitrogen	mg/L	24-hour composite	monthly	5
Total phosphorus	mg/L	24-hour composite	monthly	5
Orthosphosphate-P	mg/L	24-hour composite	monthly	5
Surfactants (MBAS)	mg/L	24-hour composite	quarterly	5
Surfactants (CTAS)	mg/L	24-hour composite	quarterly	5
Total hardness (CaCO ₃)	mg/L	24-hour composite	monthly	5
Chronic toxicity ¹¹	Pass or Fail, % effect	24-hour composite	monthly	5
Arsenic	µg/L	24-hour composite	semiannually	5
Beryllium	µg/L	24-hour composite	monthly	
Copper	µg/L	24-hour composite	monthly	5
Mercury	µg/L	24-hour composite	monthly	5
Nickel	µg/L	24-hour composite	monthly	5
Cyanide	µg/L	24-hour composite	monthly	5

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⁹ E. coli testing shall be conducted only if fecal coliform testing is positive. If the fecal coliform analysis results in no detection, a result of less than (<) the reporting limit for fecal coliform will be reported for E. coli.

¹⁰ During each reporting period, if effluent monitoring results show that both the TSS and the Mercury water column final effluent limitations were exceeded, then implementation of the Sediment Monitoring Program is required. Sediment monitoring of the effluent shall begin during the first discharge event following the effluent exceedances.

The mercury effluent samples shall be analyzed using EPA method 1631E, per 40 CFR part 136.

¹¹ The Permittee/Discharger shall conduct whole effluent toxicity monitoring as outlined in section V. The median monthly summary result shall be reported as “Pass” or “Fail”. The Maximum Daily Single Result shall be reported as “Pass or Fail” with a “% Effect”. Exactly three independent toxicity tests are required when one toxicity test results in “Fail”. The median of three testing results (Fail or Pass) will be used for the determination of compliance with the Median Monthly Effluent Limitation. Please refer to section V.A.7. of this MRP for the accelerated monitoring schedule.

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method and (Minimum Level, units), respectively
Bis(2-ethylhexyl)phthalate	µg/L	24-hour composite grab	monthly	5
Alpha-BHC	µg/L	24-hour composite	quarterly	
Aldrin	µg/L	24-hour composite	quarterly	5
Alpha-BHC	µg/L	24-hour composite	quarterly	5
Chlordane	µg/L	24-hour composite	quarterly	5
4,4-DDT	µg/L	24-hour composite	quarterly	5
4,4-DDE	µg/L	24-hour composite	quarterly	5
4,4-DDD	µg/L	24-hour composite	quarterly	5
Dieldrin	µg/L	24-hour composite	quarterly	5
Heptachlor epoxide	µg/L	24-hour composite	quarterly	5
PCBs as arochlors ¹²	µg/L	24-hour composite	quarterly	5
PCBs as congeners ¹³	µg/L	24-hour composite	semiannually	5, 13
Toxaphene	µg/L	24-hour composite	quarterly	5
Fluoride	mg/L	24-hour composite	semiannually	5
Iron	µg/L	24-hour composite	quarterly	5
Radioactivity (Including gross alpha, gross beta, combined radium-226 and radium-228, tritium, strontium-90 and uranium)	pCi/L	24-hour composite	semiannually	14
2,3,7,8-TCDD ¹⁵	pg/L	24-hour composite	semiannually	5

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¹² PCBs is the sum of Aroclor 1016, Aroclor 1221, Aroclor 1232, Aroclor 1242, Aroclor 1248, Aroclor 1254, and Aroclor 1260 when monitoring using USEPA method 608. ~~(Per TMDL: Applies to sum of all congener or isomer or homolog or Aroclor analyses.)~~

¹³ PCBs mean the sum of 41 congeners when monitoring using USEPA proposed method 1668c. PCB-18, 28, 37, 44, 49, 52, 66, 70, 74, 77, 81, 87, 99, 101, 105, 110, 114, 118, 119, 123, 126, 128, 138, 149, 151, 153, 156, 157, 158, 167, 168, 169, 170, 177, 180, 183, 187, 189, 194, 201, and 206 shall be individually quantified.

USEPA recommends that until USEPA proposed method 1668c for PCBs is incorporated into 40 CFR 136, Permittees should use for discharge monitoring reports/State monitoring reports: (1) USEPA method 608 for monitoring data, reported as arochlors results, that will be used for assessing compliance with WQBELs established using the WLAs, and (2) USEPA proposed method 1668c for monitoring data, reported as 41 congener results, that will be used for informational purposes for the established TMDL.

¹⁴ Analyze these radiochemicals by the following USEPA methods: method 900.0 for gross alpha and gross beta, method 903.0 or 903.1 for radium-226, method 904.0 for radium-228, method 906.0 for tritium, method 905.0 for strontium-90, and method 908.0 for uranium. Analysis for combined radium-226 & 228 shall be conducted only if gross alpha results for the same sample exceed 15 pCi/L or beta greater than 50 pCi/L. If radium-226 & 228 exceeds the stipulated criteria, analyze for tritium, strontium-90 and uranium.

¹⁵ In accordance with the SIP, the Discharger shall conduct effluent monitoring for the seventeen 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD or dioxin) congeners in the effluent and in the receiving water Station RSW-001U, located upstream of the discharge point 005. The Discharger shall use the appropriate Toxicity Equivalence Factor (TEF) to determine Toxic Equivalence (TEQ). Where TEQ equals the product between each of the 17 individual congeners' (i) concentration analytical result (C_i) and their corresponding

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method and (Minimum Level, units), respectively
Perchlorate	µg/L	grab	annually	¹⁶
1,4-Dioxane	µg/L	grab	annually	¹⁶⁵
1,2,3-Trichloropropane	µg/L	grab	annually	¹⁶⁵
Methyl tert-butyl-ether (MTBE)	µg/L	grab	annually	¹⁶⁶
Remaining EPA priority pollutants ¹⁷ excluding asbestos	µg/L	24-hour composite; grab for VOCs	semiannually	5

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2. Total Residual Chlorine Additional Monitoring

Continuous monitoring of total residual chlorine at the current location shall serve as an internal trigger for the increased grab sampling at EFF-0054 if either of the following occurs, except as noted in item c:

- a. Total residual chlorine concentration excursions of up to 0.3 mg/L lasting greater than 15 minutes; or
- b. Total residual chlorine concentration peaks in excess of 0.3 mg/L lasting greater than 1 minute.
- c. Additional grab samples need not be taken if it can be demonstrated that a stoichiometrically appropriate amount of dechlorination chemical has been added to effectively dechlorinate the effluent to 0.1 mg/L or less for peaks in excess of 0.3 mg/L lasting more than 1 minute, but not for more than five minutes.

3. Salts Dry- and Wet-Weather Monitoring and Reporting Requirements

The Discharger shall determine the applicable wet- or dry-weather flow condition at RSW-003D and the amount of rainfall at the time of effluent sampling. The Discharger shall tabulate the date of sampling, average flow at RSW-003D, amount of rainfall, wet- or dry weather, applicable effluent limitation (wet- or dry-weather), and actual effluent concentration/mass.

Toxicity Equivalence Factor (TEF_i), (i.e., TEQ_i = C_i x TEF_i). Compliance with the dioxin limitation shall be determined by the summation of the seventeen individual TEQs, or the following equation:

$$\text{Dioxin concentration in effluent} = \sum_{i=1}^{17} (\text{TEQ}_i) = \sum_{i=1}^{17} (C_i)(\text{TEF}_i)$$

¹⁶ Emerging chemicals include 1,4-dioxane (USEPA 8270M test method), perchlorate (USEPA 314 test method, or USEPA method 331 if a detection limit of less than 6 µg/L is achieved), 1,2,3-trichloropropane (USEPA 504.1, 8260B test method, or USEPA 524.2 in SIM mode), and methyl tert-butyl ether (USEPA 8260B test method or USEPA method 624 if a detection level of less than 5 µg/L is achieved, and if the **Discharger Permittee** received ELAP certification to run USEPA method 624).

¹⁷ Priority pollutants are those constituents referred to in 40 CFR section 401.15; a list of these pollutants is provided as Appendix A to 40 CFR part 423.

Table E-3b Salts Monitoring and Reporting Requirements

<u>Parameter</u>	<u>Date of Sampling</u>	<u>Flow (cfs)</u>	<u>Rainfall Amount (inches)</u>	<u>Wet or Dry Weather?</u>	<u>Applicable Effluent Limitation</u>	<u>Actual Effluent Concentration/ Mass</u>
<u>TDS (wet-weather)</u>						
<u>TDS (dry-weather)</u>						
<u>Sulfate (wet-weather)</u>						
<u>Sulfate (dry-weather)</u>						
<u>Chloride (wet-weather)</u>						
<u>Chloride (dry-weather)</u>						
<u>Boron (wet-weather)</u>						
<u>Boron (dry-weather)</u>						

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3.—Additional PCB monitoring

~~The Permittee shall sample the effluent for PCBs on a semiannual basis using EPA Method 1668c for the analysis. Unlike the PCB compliance monitoring required under section IV.A.1 of this MRP, the analysis under section IV.A.3 is strictly for monitoring purposes. Analytical results obtained by running the EPA method 1668c will not be used for compliance determination purposes, since the method has not been incorporated in 40 CFR part 136.~~

4. Sediment Monitoring of Effluent at Monitoring Location EFF-005

The Permittee must sample the discharge at the point following final treatment, prior to entering the receiving water. The exact location of the sampling point must be stipulated in the initial self-monitoring report. All samples shall be tested in accordance with USEPA or ASTM methodologies where such methods exist. Where no USEPA or ASTM methods exist, the State Water Board or Regional Water Board (collectively Water Boards) shall approve the use of other methods. Analytical tests shall be conducted by laboratories certified by the California Department of Public Health in accordance with Water Code Section 13176.

Table E-3cb. Effluent Monitoring

Parameter	Units	Sample Type	Minimum Sampling Frequency
Mercury	mg/kg	Grab	1/Year *

* Sediment Monitoring is only required during a reporting period if effluent water column monitoring results for both TSS and Mercury are exceeded. If monitoring is not triggered because both TSS and Mercury limits were not exceeded, then at a minimum, sediment monitoring must occur at least once during the five-year permit term.

V. WHOLE EFFLUENT TOXICITY (WET) TESTING REQUIREMENTS

A. Chronic Toxicity

1. Discharge In-stream Waste Concentration (IWC) for Chronic Toxicity

The chronic toxicity IWC for this discharge is 100 percent effluent..

2. Sample Volume and Holding Time

The total sample volume shall be determined by the specific toxicity test method used. Sufficient sample volume shall be collected to perform the required toxicity test. For the receiving water, sufficient sample volume shall also be collected for subsequent TIE studies, if necessary, at each sampling event. All toxicity tests shall be conducted as soon as possible following sample collection. No more than 36 hours shall elapse before the conclusion of sample collection and test initiation.

3. Chronic Freshwater Species and Test Methods

If effluent samples are collected from outfalls discharging to receiving waters with salinity <1 ppt, the Permittee shall conduct the following chronic toxicity tests on effluent samples at the in-stream waste concentration for the discharge in accordance with species and test methods in *Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms* (EPA/821/R-02/013, 2002; Table IA, 40 CFR part 136). In no case shall these species be substituted with another test species unless written authorization from the Executive Officer is received.

- a. A static renewal toxicity test with the fathead minnow, *Pimephales promelas* (Larval Survival and Growth Test Method 1000.0).
- b. A static renewal toxicity test with the daphnid, *Ceriodaphnia dubia* (Survival and Reproduction Test Method 1002.01).
- c. A static renewal toxicity test with the green alga, *Selenastrum capricornutum* (also named *Raphidocelis subcapitata*) (Growth Test Method 1003.0).

4. Species Sensitivity Screening

Species sensitivity screening shall be conducted during this permit's first required sample collection. The Permittee shall collect a single effluent sample and concurrently conduct three toxicity tests using the fish, an invertebrate, and the alga species previously referenced. This sample shall also be analyzed for the parameters required for the discharge. The species that exhibits the highest "Percent Effect" at the discharge IWC during species sensitivity screening shall be used for routine monitoring during the permit cycle.

Species sensitivity rescreening is required every 24 months. The Permittee shall rescreen with the fish, an invertebrate, and the alga species previously referenced and continue to monitor with the most sensitive species. If the first suite of rescreening tests demonstrates that the same species is the most sensitive then the rescreening does not need to include more than one suite of tests. If a different species is the most sensitive or if there is ambiguity, then the Permittee shall proceed with suites of screening tests for a minimum of three, but not to exceed five suites.

5. Assurance and Additional Requirements Quality assurance measures, instructions, and other recommendations and requirements are found in the test methods manual previously referenced. Additional requirements are specified below.
 - a. The discharge is subject to determination of "Pass" or "Fail" and "Percent Effect" from a single-effluent concentration chronic toxicity test at the discharge IWC using the Test of Significant Toxicity (TST) approach described in *National Pollutant Discharge Elimination System Test of Significant Toxicity*

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Implementation Document (EPA 833-R-10-003, 2010), Appendix A, Figure A-1, and Table A-1. The null hypothesis (H_0) for the TST approach is: Mean discharge IWC response $\leq 0.75 \times$ Mean control response. A test result that rejects this null hypothesis is reported as “Pass”. A test result that does not reject this null hypothesis is reported as “Fail”. The relative “Percent Effect” at the discharge IWC is defined and reported as: $((\text{Mean control response} - \text{Mean discharge IWC response}) \div \text{Mean control response}) \times 100$.

- b. The Median Monthly Effluent Limit (MMEL) for chronic toxicity only applies when there is a discharge more than one day in a calendar month period. During such calendar months, exactly three independent toxicity tests are required when one toxicity test results in “Fail”.
- c. If the effluent toxicity test does not meet all test acceptability criteria (TAC) specified in the referenced test method, then the Permittee must re-sample and re-test within 14 days.
- d. Dilution water and control water, including brine controls, shall be laboratory water prepared and used as specified in the test methods manual. If dilution water and control water is different from test organism culture water, then a second control using culture water shall also be used.
- e. Monitoring reference toxicant testing is sufficient. All reference toxicant test results should be reviewed and reported.
- f. The Permittee shall perform toxicity tests on final effluent samples. Chlorine and ammonia shall not be removed from the effluent sample prior to toxicity testing, unless explicitly authorized under this section of the Monitoring and Reporting Program and the rationale is explained in the Fact Sheet (Attachment F).

6. Preparation of an Initial Investigation TRE Work Plan

The Permittee shall prepare and submit a copy of the Permittee’s initial investigation TRE work plan to the Executive Officer of the Regional Water Board for approval within 90 days of the effective date of this permit. If the Executive Officer does not disapprove the work plan within 60 days, the work plan shall become effective. The Permittee shall use USEPA manual EPA/833B-99/002 (municipal) as guidance, or most current version. At a minimum, the TRE Work Plan must contain the provisions in Attachment G. This work plan shall describe the steps that the Permittee intends to follow if toxicity is detected. At minimum, the work plan shall include:

- a. A description of the investigation and evaluation techniques that will be used to identify potential causes and sources of toxicity, effluent variability, and treatment system efficiency.
 - b. A description of the Facility’s methods of maximizing in-house treatment efficiency and good housekeeping practices, and a list of all chemicals used in the operation of the Facility; and,
 - c. If a TIE is necessary, an indication of the person who would conduct the TIEs (i.e., an in-house expert or an outside contractor).
- 7. Accelerated Monitoring Schedule for Median Monthly Summary Result: “Fail” (or Maximum Daily Single Result: “Fail and % Effect ≥ 50 ”).**

The summary result shall be used when there is discharge more than one day in a calendar month. The single result shall be used when there is discharge of only one day in a calendar month.

Within 24 hours of the time the Permittee becomes aware of this result, the Permittee shall implement an accelerated monitoring schedule consisting of four, five-concentration toxicity tests (including the discharge IWC), conducted at approximately two week intervals, over an eight week period. If each of the accelerated toxicity tests results in “Pass”, the Permittee shall return to routine monitoring for the next monitoring period. If one of the accelerated toxicity tests results in “Fail”, the Permittee shall immediately implement the Toxicity Reduction Evaluation (TRE) Process conditions set forth below.

8. Toxicity Reduction Evaluation (TRE) Process

- a. Preparation and Implementation of Detailed TRE Work Plan.** The Permittee shall immediately initiate a TRE using, according to the type of treatment facility, USEPA manual *Toxicity Reduction Evaluation Guidance for Municipal Wastewater Treatment Plants* (EPA/833/B-99/002, 1999) and, within 30 days, submit to the Executive Officer a Detailed TRE Work Plan, which shall follow the generic Initial Investigation TRE Work Plan revised as appropriate for this toxicity event. It shall include the following information, and comply with additional conditions set by the Executive Officer:
 - i. Further actions by the Permittee to investigate, identify, and correct the causes of toxicity.
 - ii. Actions the Permittee will take to mitigate the effects of the discharge and prevent the recurrence of toxicity.
 - iii. A schedule for these actions, progress reports, and the final report.
- b. TIE Implementation.** The Permittee may initiate a TIE as part of a TRE to identify the causes of toxicity using the same species and test method and, as guidance, USEPA manuals: *Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures* (EPA/600/6-91/003, 1991); *Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity* (EPA/600/R-92/080, 1993); *Methods for Aquatic Toxicity Identification Evaluations, Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity* (EPA/600/R-92/081, 1993); and *Marine Toxicity Identification Evaluation (TIE): Phase I Guidance Document* (EPA/600/R-96-054, 1996). The TIE should be conducted on the species demonstrating the most sensitive toxicity response.
- c.** Many recommended TRE elements parallel required or recommended efforts for source control, pollution prevention, and storm water control programs. TRE efforts should be coordinated with such efforts. As toxic substances are identified or characterized, the Permittee shall continue the TRE by determining the sources and evaluating alternative strategies for reducing or eliminating the substances from the discharge. All reasonable steps shall be taken to reduce toxicity to levels consistent with toxicity evaluation parameters.
- d.** The Permittee shall conduct routine effluent monitoring for the duration of the TRE process. Additional accelerated monitoring and TRE work plans are not required once a TRE is begun.
- e.** The Regional Water Board recognizes that toxicity may be episodic and identification of causes and reduction of sources of toxicity may not be

successful in all cases. The TRE may be ended at any stage if monitoring finds there is no longer toxicity.

9. Reporting

The Self-Monitoring Report (SMR) shall include a full laboratory report for each toxicity test. This report shall be prepared using the format and content of the test methods manual chapter called Report Preparation, including:

- a. The toxicity test results for the TST approach, reported as “Pass” or “Fail” and “Percent Effect” at the chronic toxicity IWC for the discharge.
- b. Water quality measurements for each toxicity test (e.g., pH, dissolved oxygen, temperature, conductivity, hardness, salinity, chlorine, ammonia).
- c. TRE/TIE results. The Executive Officer shall be notified no later than 30 days from completion of each aspect of TRE/TIE analyses.
- d. Statistical program (e.g., TST calculator, CETIS, etc.) output results for each toxicity test.

B. Ammonia Removal

- 1. Except with prior approval from the Executive Officer of the Regional Water Board, ammonia shall not be removed from bioassay samples. The Permittee must demonstrate the effluent toxicity is caused by ammonia because of increasing test pH when conducting the toxicity test. It is important to distinguish the potential toxic effects of ammonia from other pH sensitive chemicals, such as certain heavy metals, sulfide, and cyanide. The following may be steps to demonstrate that the toxicity is caused by ammonia and not other toxicants, before the Executive Officer would allow for control of pH in the test.
 - a. There is consistent toxicity in the effluent and the maximum pH in the toxicity test is in the range to cause toxicity due to increased pH.
 - b. Chronic ammonia concentrations in the effluent are greater than 4 mg/L total ammonia.
 - c. Conduct graduated pH tests as specified in the toxicity identification evaluation methods. For example, mortality should be higher at pH 8 and lower at pH 6.
 - d. Treat the effluent with a zeolite column to remove ammonia. Mortality in the zeolite treated effluent should be lower than the non-zeolite treated effluent. Then add ammonia back to the zeolite-treated samples to confirm toxicity due to ammonia.
- 2. When it has been demonstrated that toxicity is due to ammonia because of increasing test pH, pH may be controlled using appropriate procedures which do not significantly alter the nature of the effluent, after submitting a written request to the Regional Water Board, and receiving written permission expressing approval from the Executive Officer of the Regional Water Board.

C. Chlorine Removal

Except with prior approval from the Executive Office of the Regional Water Board, chlorine shall not be removed from bioassay samples.

VI. LAND DISCHARGE MONITORING REQUIREMENTS (NOT APPLICABLE)

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VII. RECYCLING MONITORING REQUIREMENTS (NOT APPLICABLE)

VIII. RECEIVING WATER MONITORING REQUIREMENTS

A. Monitoring Locations RSW-001U and RSW-002D

- The Permittee shall monitor North Fork Arroyo Conejo at RSW-001U through RSW-002D as follows:

Table E-4. Receiving Water Monitoring Requirements

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Total flow	cfs	calculation	monthly	--
Turbidity	NTU	grab	monthly	18
Temperature	°F	grab	monthly	4718
pH	pH units	grab	monthly	4718
E.Coli	MPN/100ml or CFU/100ml	grab	monthly	4718
Total residual chlorine	mg/L	grab	monthly ¹⁹	4718
Settleable Solids	mL/L	grab	monthly	4718
Total Suspended Solids	mg/L	grab	monthly	4718
BOD ₅ 20°C	mg/L	grab	monthly	4718
Oil and grease	mg/L	grab	quarterly	4718
Dissolved oxygen	mg/L	grab	monthly	4718
Total Hardness (CaCO ₃)	mg/L	grab	monthly ²⁰	4718
Conductivity	µmho/cm	grab	monthly	4718
Total Dissolved Solids	mg/L	grab	monthly	4718
Sulfate	mg/L	grab	monthly	4718
Chloride	mg/L	grab	monthly	4718
Boron	mg/L	grab	monthly	4718
Chronic toxicity	Pass or Fail, % Effect	grab	quarterly ²¹	4718
Nitrate nitrogen	mg/L	grab	monthly	4718
Nitrite nitrogen	mg/L	grab	monthly	4718
Ammonia nitrogen	mg/L	grab	monthly	4718
Organic nitrogen	mg/L	grab	monthly	4718
Total kjeldahl nitrogen	mg/L	grab	monthly	4718

¹⁸ Pollutants shall be analyzed using the analytical methods described in 40 CFR part 136; where no methods are specified for a given pollutant, by methods approved by this Regional Water Board or State Water Board. For any pollutant whose effluent limitation is lower than all the MLs specified in Attachment 4 of the SIP, the analytical method with the lowest ML must be selected.

¹⁹ Total residual chlorine monitoring is applicable when chlorination process is in operation.

²⁰ Total hardness shall be sampled at station RSW-001U only.

²¹ Chronic toxicity shall be sampled at stations RSW-001U and RSW-002D.

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Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
(TKN)				
Total nitrogen	mg/L	grab	monthly	4718
Total phosphorus	mg/L	grab	monthly	4718
Orthosphosphate-p	mg/L	grab	monthly	4718
Algal biomass (Chlorophyll a) ²²	mg/cm ²	grab	annually	4718
Surfactants (MBAS)	mg/L	grab	quarterly	4718
Surfactants (CTAS)	mg/L	grab	quarterly	4718
Beryllium	µg/L	grab	quarterly	4718
Copper	µg/L	grab	monthly	4718
Mercury	µg/L	grab	monthly	4718
Nickel	µg/L	grab	monthly	4718
Cyanide	µg/L	grab	monthly	4718
Bis(2-ethyhexyl)Phthalate	µg/L	grab	monthly	4718
Iron	µg/L	grab	quarterly	4718
Selenium	µg/L	grab	semiannually	4718
Chlorpyrifos	µg/L	grab	quarterly	4718
Diazinon	µg/L	grab	quarterly	4718
Chlordane	µg/L	grab	quarterly	4718
4,4'-DDD	µg/L	grab	quarterly	4718
4,4'-DDE	µg/L	grab	quarterly	4718
4,4'-DDT	µg/L	grab	quarterly	4718
Dieldrin	µg/L	grab	quarterly	4718
PCBs <u>as arochlors</u> ²³	µg/L	grab	quarterly	4718
<u>PCBs as congeners</u> ²⁴	<u>µg/L</u>	<u>Grab</u>	<u>semiannually</u>	<u>18</u>
Toxaphene	µg/L	grab	quarterly	4718
Antimony	µg/L	grab	semiannually	4718
Cadmium	µg/L	grab	semiannually	4718

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²² Algal biomass or Chlorophyll a samples shall be collected by obtaining scrapings from the substrate, concurrently with pH, dissolved oxygen, and (macro)invertebrate monitoring. This will be a measure of benthic algae, rather than algae in the water column. Percent cover shall also be reported.

²³ PCBs is the sum of Aroclor 1016, Aroclor 1221, Aroclor 1232, Aroclor 1242, Aroclor 1248, Aroclor 1254, and Aroclor 1260 when monitoring using USEPA method 608. ~~(Per TMDL: Applies to sum of all congener or isomer or homolog or Aroclor analyses.)~~

²⁴ PCBs mean the sum of 41 congeners when monitoring using USEPA proposed method 1668c. PCB-18, 28, 37, 44, 49, 52, 66, 70, 74, 77, 81, 87, 99, 101, 105, 110, 114, 118, 119, 123, 126, 128, 138, 149, 151, 153, 156, 157, 158, 167, 168, 169, 170, 177, 180, 183, 187, 189, 194, 201, and 206 shall be individually quantified.

USEPA recommends that until USEPA proposed method 1668c for PCBs is incorporated into 40 CFR 136, Permittees should use for discharge monitoring reports/State monitoring reports: (1) USEPA method 608 for monitoring data, reported as arochlors results, that will be used for assessing compliance with WQBELs established using the WLAs, and (2) USEPA proposed method 1668c for monitoring data, reported as 41 congener results, that will be used for informational purposes for the established TMDL.

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Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Chromium III	µg/L	calculation	semiannually	4718
Chromium VI	µg/L	grab	semiannually	4718
Lead	µg/L	grab	semiannually	4718
Silver	µg/L	grab	semiannually	4718
Thallium	µg/L	grab	semiannually	4718
Zinc	µg/L	grab	semiannually	4718
Fluoride	mg/L	grab	semiannually	4718
Barium	µg/L	grab	semiannually	4718
Methoxychlor	µg/L	grab	annually	4718
2,3,7,8-TCDD ²⁵	µg/L	grab	semiannually	4718
1,4-Dioxane	µg/L	grab	annually	26
Perchlorate	µg/L	grab	annually	264
1,2,3-Trichloropropane	µg/L	grab	annually	264
Methyl tert-butyl-ether (MTBE)	µg/L	grab	annually	264
Remaining EPA priority pollutants ²⁷ excluding asbestos	µg/L	grab	semiannually	4718

- Receiving water samples shall not be taken during or within 48-hours following the flow of rainwater runoff into the North Fork Arroyo Conejo unless it is safe to do so.

B. TMDL Stream Flow and Rainfall Monitoring

- In order to determine the dry- and wet-weather flow conditions in the receiving water, the Permittee shall report the average daily flow at Calleguas Creek, collected from an existing stream flow gauging station located at Calleguas Creek near the California State University Channel Islands. For the purposes of this permit, this station is also known as RSW-003D ([USGS gauge 80511106550](#)). The Permittee shall also report the total daily rainfall from an existing rainfall gauging station located at the University of Channel Islands.

²⁵ In accordance with the SIP, the Discharger shall conduct effluent monitoring for the seventeen 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD or dioxin) congeners in the effluent and in the receiving water Stations RSW-001U and RSW-002D. The Discharger shall use the appropriate TEF to determine TEQ. Where TEQ equals the product between each of the 17 individual congeners' (i) concentration analytical result (C_i) and their corresponding TEF_i, (i.e., TEQ_i = C_i x TEF_i). Compliance with the dioxin limitation shall be determined by the summation of the seventeen individual TEQs, or the following equation:

$$\text{Dioxin concentration in effluent} = \sum_{1}^{17} (\text{TEQ}_i) = \sum_{1}^{17} (C_i)(\text{TEF}_i)$$

²⁶ Emerging chemicals include 1,4-dioxane (USEPA 8270M test method), perchlorate (USEPA 314 test method, or USEPA method 331 if a detection limit of less than 6 µg/L is achieved), 1,2,3-trichloropropane (USEPA 504.1, 8260B test method, or USEPA 524.2 in SIM mode), and methyl tert-butyl ether (USEPA 8260B test method or USEPA method 624 if a detection level of less than 5 µg/L is achieved, and if the **Discharger Permittee** received ELAP certification to run USEPA method 624).

²⁷ Priority pollutants are those constituents referred to in 40 CFR section 401.15; a list of these pollutants is provided as Appendix A to 40 CFR part 423.

The *Calleguas Creek Salts TMDL* has defined dry-weather as the condition in the receiving water when the flows in the receiving waters are below the 86th percentile of the flow and there is no measurable precipitation. The 86th percentile of the flow was given in the TMDL staff report. The rainfall precipitation shall be obtained from an existing rainfall gauging station located at the University of Channel Islands. If the gauging stations are not operational, an estimated average daily flow and rainfall may be submitted.

Table E-4b TMDL Stream Flow and Rainfall Monitoring Requirements

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Average Daily Flow	cubic feet per second (cfs)	On-line data	daily	N/A
Total Daily Rainfall	inches	On-line data	daily	N/A

IX. OTHER MONITORING REQUIREMENTS

A. Calleguas Creek TMDL Monitoring Requirements

1. The TMDL monitoring program is discussed in section VI.C.2. of the Order.

B. Special Study

1. CEC Monitoring in the Effluent

In recent years, the Los Angeles Regional Water Board has incorporated monitoring of a select group of man-made chemicals, particularly pesticides, pharmaceuticals and personal care products, known collectively as CECs, into permits issued to publicly-owned treatment works (POTWs) to better understand the propensity, persistence and effects of CECs in our environment. Recently adopted permits in this region contain requirements for CEC effluent monitoring and submittal of a work plan identifying the CECs to be monitored in the effluent, sample type, sampling frequency and sampling methodology. Based on feedback we have received from permittees and our review of the results of a recent CEC-related study by the Southern California Coastal Water Research Project (SCCWRP) and the State Water Board, we have modified our CEC monitoring program to respond to feedback while proceeding to fill identified data gaps without overly burdening any one permittee.

The Permittee shall conduct a special study to investigate the CECs in the effluent discharge as listed in the Table below. These constituents shall be monitored annually for at least two years. The Regional Water Board has determined that two years is an appropriate time period to determine those CECs that are present in POTW effluent. Monitoring results shall be reported as part of the annual report.

Analysis under this section is for monitoring purposes only. Analytical results obtained for this study will not be used for compliance determination purposes, since the methods have not been incorporated in 40 CFR part 136."

Table E-5. CEC Monitoring Requirements

Parameter	Unit	Reporting Limit	Sample Type	Analytical Method	Minimum Sampling Frequency
17 α -Ethinyl Estradiol	ng/L	0.5	24-hr composite	EDC Steroid	Annually
17 β -Estradiol	ng/L	0.5	24-hr composite	EDC Steroid	Annually
Estrone	ng/L	0.5	24-hr composite	EDC Steroid	Annually
Bisphenol A	ng/L	10	24-hr composite	EDC Steroid	Annually
Nonylphenol & Nonylphenol polyethoxylates	ng/L	100	24-hr composite	EDC Steroid	Annually
Octylphenol & octylphenol polyethoxylates	ng/L	100	24-hr composite	EDC Steroid	Annually
Polybrominated diphenyl ethers (PBDE 28, 47, 99, 100, 153, 154, 183, 209)	ng/L	100 for PBDE 209 and 5 for all others	24-hr composite	PBDEs	Annually
Amoxicillin	ng/L	10	24-hr composite	PPCPs	Annually
Azithromycin	ng/L	10	24-hr composite	PPCPs	Annually
Carbamazepine	ng/L	10	24-hr composite	PPCPs	Annually
Caffeine	ng/L	10	24-hr composite	PPCPs	Annually
N,N-Diethyl-m-toluamide (DEET)	ng/L	10	24-hr composite	PPCPs	Annually
Dilantin	ng/L	10	24-hr composite	PPCPs	Annually
Gemfibrozil	ng/L	10	24-hr composite	PPCPs	Annually
Ibuprofen	ng/L	10	24-hr composite	PPCPs	Annually
Iodinated contrast media (iopromide)	ng/L	10	24-hr composite	PPCPs	Annually
Sulfamethoxazole	ng/L	10	24-hr composite	PPCPs	Annually
Trimethoprim	ng/L	10	24-hr composite	PPCPs	Annually
TCEP, TCPP and TDCPP	ng/L	10	24-hr composite	PPCPs	Annually
Triclosan	ng/L	10	24-hr composite	PPCPs	Annually
Bifenthrin	ng/L	2	24-hr composite	Pyrethroids	Annually
Permethrin	ng/L	5	24-hr composite	Pyrethroids	Annually
Chlorpyrifos	ng/L	10	24-hr composite	Chlorpyrifos	Annually
Galaxolide	ng/L	10	24-hr composite	Galaxolide	Annually
Diclofenac	ng/L	10	24-hr composite	PPCPs	Annually
Perfluorooctane Sulfonate (PFOS)	ng/L	40	24-hr composite	PFOS	Annually
Fipronil	ng/L	2	24-hr composite	Fipronil	Annually

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Parameter	Unit	Reporting Limit	Sample Type	Analytical Method	Minimum Sampling Frequency
Meprobamate	ng/L	10	24-hr composite	PPCPs	Annually

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C. Watershed Monitoring

1. The goals of the Watershed-wide Monitoring Program for the Calleguas Creek Watershed are to:
 - Determine compliance with receiving water limits;
 - Monitor trends in surface water quality;
 - Ensure protection of beneficial uses;
 - Provide data for modeling contaminants of concern;
 - Characterize water quality including seasonal variation of surface waters within the watershed;
 - Assess the health of the biological community; and
 - Determine mixing dynamics of effluent and receiving waters in the estuary.

2. The Permittee shall participate in the implementation of the Watershed-wide Monitoring Program developed by stakeholders and initiated in 2008. The City's responsibilities under the Watershed-wide Monitoring Program are described in the Receiving Water Monitoring Requirements section. To achieve the goals of the Watershed-wide Monitoring Program, revisions to the Receiving Water Monitoring Requirements will be made under the direction of USEPA and the Regional Water Board. The Permittee shall submit annual reports providing the monitoring data collected during the calendar year, as well as an interpretation of the significance of the results with respect to the health of the watershed. Annual reports shall be submitted by July 1st of each year. The first annual report covering the period from January 1-December 31, 2014 should be received in the Regional Water Board office by July 1, 2015. The City has participated with stakeholders in the Calleguas Creek Watershed, to develop the watershed-wide monitoring program. The Permittee shall implement the watershed-wide monitoring program and shall submit quarterly progress reports detailing ongoing efforts towards the implementation of the Watershed-wide Monitoring Program. The first report should be received in the Regional Water Board office by January 15, 2015.

3. In coordination with interested stakeholders in the Calleguas Creek Watershed, the Permittee shall conduct bioassessment program annually in the spring/summer period and include an analysis of the community structure of the instream macroinvertebrate assemblages, the community structure of the instream algal assemblages (benthic diatoms and soft-bodied algae), chlorophyll a and biomass for instream algae, and physical habitat assessment at the random monitoring stations designated by the Calleguas Creek Watershed Monitoring Program.
 - a. The bioassessment program shall include an analysis of the community structure of the instream macroinvertebrate assemblages and physical habitat assessment at monitoring stations RSW-001 and RSW-002.

This program shall be implemented by appropriately trained staff. Alternatively, a professional subcontractor qualified to conduct bioassessments may be selected to perform the bioassessment work for the Permittee. Analyses of the results of

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the bioassessment monitoring program, along with photographs of the monitoring site locations taken during sample collection, shall be submitted in the corresponding annual report. If another stakeholder, or interested party in the watershed subcontracts a qualified professional to conduct bioassessment monitoring during the same season and at the same location as specified in the MRP, then the Permittee may, in lieu of duplicative sampling, submit the data, a report interpreting the data, photographs of the site, and related QA/QC documentation in the corresponding annual report.

- b. The Permittee must provide a copy of their Standard Operation Procedures (SOPs) for the Bioassessment Monitoring Program to the Regional Water Board upon request. The document must contain step-by-step field, laboratory and data entry procedures, as well as, related QA/QC procedures. The SOP must also include specific information about each bioassessment program including: assessment program description, its organization and the responsibilities of all its personnel; assessment project description and objectives; qualifications of all personnel; and the type of training each member has received.
 - c. Field sampling must conform to the SOP established for the California Stream Bioassessment Procedure (CSBP) or more recently established sampling protocols, such as used by the Surface Water Ambient Monitoring Program (SWAMP). Field crews shall be trained on aspects of the protocol and appropriate safety issues. All field data and sample Chain of Custody (COC) forms must be examined for completion and gross errors. Field inspections shall be planned with random visits and shall be performed by the Permittee or an independent auditor. These visits shall report on all aspects of the field procedure with corrective action occurring immediately.
 - d. A taxonomic identification laboratory shall process the biological samples that usually consist of subsampling organisms, enumerating and identifying taxonomic groups and entering the information into an electronic format. The Regional Water Board may require QA/QC documents from the taxonomic laboratories and examine their records regularly. Intra-laboratory QA/QC for subsampling, taxonomic validation and corrective actions shall be conducted and documented. Biological laboratories shall also maintain reference collections, vouchered specimens (the Permittee may request the return of their sample voucher collections) and remnant collections. The laboratory should participate in an (external) laboratory taxonomic validation program at a recommended level of 10% or 20%. External QA/QC may be arranged through the California Department of Fish and Wildlife's Aquatic Bioassessment Laboratory located in Rancho Cordova, California.
4. The Executive Officer of the Regional Water Board may modify Monitoring and Reporting Program to accommodate the watershed-wide monitoring.

D. Tertiary Filter Treatment Bypasses

- 1. During any day that filters are bypassed, the Permittee shall monitor the effluent for BOD, suspended solids, and settleable solids, on daily basis, until it is demonstrated that the filter "bypass" has not caused an adverse impact on the receiving water.
- ~~2. As soon as possible, but no later than twenty-four (24) hours after becoming aware of a discharge to a drainage channel or a surface water, the Permittee shall submit to the Regional Water Board a certification that the State Office of Emergency Services and the~~

~~local health officer or directors of environmental health with jurisdiction over the affected water bodies have been notified of the discharge.~~

- ~~3.2.~~ The Permittee shall maintain chronological log of tertiary filter treatment process bypasses, to include the following:
 - a. Date and time of bypass start and end;
 - b. Total duration time; and,
 - c. Estimated total volume bypassed
- 4.3. The Permittee shall submit a written report to the Regional Water Board, according to the corresponding monthly self monitoring report schedule. The report shall include, at a minimum, the information from the chronological log. Results from the daily effluent monitoring, required by D.1. above, shall be verbally reported to the Regional Water Board as the results become available and submitted as part of the monthly SMR.

X. REPORTING REQUIREMENTS

A. General Monitoring and Reporting Requirements

The Permittee shall comply with all Standard Provisions (Attachment D) related to monitoring, reporting, and recordkeeping.

1. The Permittee shall comply with all Standard Provisions (Attachment D) related to monitoring, reporting, and recordkeeping.
2. If there is no discharge during any reporting period, the report shall so state.
3. Each monitoring report shall contain a separate section titled "Summary of Non-Compliance" which discusses the compliance record and the corrective actions taken or planned that may be needed to bring the discharge into full compliance with waste discharge requirements. This section shall clearly list all non-compliance with discharge requirements, as well as all excursions of effluent limitations.
4. The Permittee shall inform the Regional Water Board well in advance of any proposed construction activity that could potentially affect compliance with applicable requirements.

B. Calleguas Creek TMDL Monitoring and Reporting Requirements

The Calleguas Creek Watershed TMDL Monitoring Plan (CCWTMP) is designed to monitor and evaluate the implementation of this TMDL and refine the understanding of metal and selenium loads. CCWTMP is intended to parallel efforts of the Calleguas Creek Watershed Nutrients TMDL, Toxicity TMDL, and OC Pesticide, PCBs, and Sediment TMDL monitoring programs.

The goals of the CCWTMP include: (1) to determined compliance with copper, mercury, nickel, and selenium numeric targets at receiving water monitoring stations and at POTW's discharges; (2) to determine compliance with waste load allocations for copper, mercury, nickel, and selenium at receiving water monitoring stations and at POTW's discharge; (3) to monitor the effect of implementation action by urban, POTW, and agricultural dischargers on in-stream water quality; and (4) to implement the CCWTMP in a manner consistent with other TMDL implementation plans and regulatory actions within the Calleguas Creek watershed.

The Permittee shall submit reports to the Regional Water Board as required by the approved CCWTMP.

(See also section VI.C.2.a. of the Order for Monitoring and Reporting Requirements.)

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C. Self-Monitoring Reports (SMRs)

1. The Permittee shall electronically submit SMRs using the State Water Board’s California Integrated Water Quality System (CIWQS) Program website (<http://www.waterboards.ca.gov/ciwqs/index.html>). The CIWQS website will provide additional information for SMR submittal in the event there will be a planned service interruption for electronic submittal.
2. The Permittee shall report in the SMR the results for all monitoring specified in this MRP under sections III through IX. The Permittee shall submit monthly, quarterly, semiannual, and annual SMRs including the results of all required monitoring using USEPA-approved test methods or other test methods specified in this Order. SMRs are to include all new monitoring results obtained since the last SMR was submitted. If the Permittee monitors any pollutant more frequently than required by this Order, the results of this monitoring shall be included in the calculations and reporting of the data submitted in the SMR.
3. Monitoring periods and reporting for all required monitoring shall be completed according to the following schedule:

Table E-6. Monitoring Periods and Reporting Schedule

Sampling Frequency	Monitoring Period Begins On...	Monitoring Period	SMR Due Date
Continuous	Permit effective date	All	Submit with monthly SMR
Daily	Permit effective date	(Midnight through 11:59 PM) or any 24-hour period that reasonably represents a calendar day for purposes of sampling.	Submit with monthly SMR
Weekly	Sunday following permit effective date or on permit effective date if on a Sunday	Sunday through Saturday	Submit with monthly SMR
Monthly	First day of calendar month following permit effective date or on permit effective date if that date is first day of the month	1 st day of calendar month through last day of calendar month	By the 15 th day of the third month after the month of sampling
Quarterly	Closest of February 1, May 1, August 1, or November 1 following (or on) permit effective date	January 1 through March 31 April 1 through June 30 July 1 through September 30 October 1 through December 31	June 15 September 15 December 15 March 15
Semiannually	Closest of February 1 or August 1 following (or on) permit effective date	January 1 through June 30 July 1 through December 31	September 15 March 15
Annually	January 1 following (or on) permit effective date	January 1 through December 31	April 15

4. Reporting Protocols. The Permittee shall report with each sample result the applicable RL and the current MDL, as determined by the procedure in 40 CFR part 136.

The Permittee shall report the results of analytical determinations for the presence of chemical constituents in a sample using the following reporting protocols:

- a. Sample results greater than or equal to the RL shall be reported as measured by the laboratory (i.e., the measured chemical concentration in the sample).

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- b. Sample results less than the RL, but greater than or equal to the laboratory's MDL, shall be reported as "Detected, but Not Quantified," or DNQ. The estimated chemical concentration of the sample shall also be reported.

For the purposes of data collection, the laboratory shall write the estimated chemical concentration next to DNQ. The laboratory may, if such information is available, include numerical estimates of the data quality for the reported result. Numerical estimates of data quality may be percent accuracy (\pm a percentage of the reported value), numerical ranges (low to high), or any other means considered appropriate by the laboratory.

- c. Sample results less than the laboratory's MDL shall be reported as "Not Detected," or "ND."
 - d. Permittees are to instruct laboratories to establish calibration standards so that the ML value (or its equivalent if there is differential treatment of samples relative to calibration standards) is the lowest calibration standard. At no time is the Permittee to use analytical data derived from extrapolation beyond the lowest point of the calibration curve.
5. Compliance Determination. Compliance with effluent limitations for priority pollutants shall be determined using sample reporting protocols defined above and Attachment A of this Order. For purposes of reporting and administrative enforcement by the Regional Water Board and State Water Board, the Permittee shall be deemed out of compliance with effluent limitations if the concentration of the priority pollutant in the monitoring sample is greater than the effluent limitation and greater than or equal to the RL.
6. Multiple Sample Data. When determining compliance with an average monthly effluent limitation (AMEL), average weekly effluent limitation (AWEL), or maximum daily effluent limitation (MDEL) for priority pollutants and more than one sample result is available, the Permittee shall compute the arithmetic mean unless the data set contains one or more reported determinations of DNQ or ND. In those cases, the Permittee shall compute the median in place of the arithmetic mean in accordance with the following procedure:
- a. The data set shall be ranked from low to high, ranking the reported ND determinations lowest, DNQ determinations next, followed by quantified values (if any). The order of the individual ND or DNQ determinations is unimportant.
 - b. The median value of the data set shall be determined. If the data set has an odd number of data points, then the median is the middle value. If the data set has an even number of data points, then the median is the average of the two values around the middle unless one or both of the points are ND or DNQ, in which case the median value shall be the lower of the two data points where DNQ is lower than a value and ND is lower than DNQ.
7. The Permittee shall submit SMRs in accordance with the following requirements:
- a. The Permittee shall arrange all reported data in a tabular format. The data shall be summarized to clearly illustrate whether the Facility is operating in compliance with interim and/or final effluent limitations. The Permittee is not required to duplicate the submittal of data that is entered in a tabular format within CIWQS. When electronic submittal of data is required and CIWQS does not provide for entry into a tabular format within the system, the Permittee shall electronically submit the data in a tabular format as an attachment.

- b. The Permittee shall attach a cover letter to the SMR. The information contained in the cover letter shall clearly identify violations, instances of non-compliance or exceedances of effluent limitations of the WDRs; discuss corrective actions taken or planned; and the proposed time schedule for corrective actions. Identified violations must include a description of the requirement that was violated and a description of the violation.
- c. SMRs must be submitted to the Regional Water Board, signed and certified as required by the Standard Provisions (Attachment D). Paper SMRs should be converted to a Portable Document Format (PDF). Documents that are less than 10 megabytes (MB) should be emailed to losangeles@waterboards.ca.gov. Documents that are 10 MB or larger should be transferred to a disk and mailed to the address listed below: (Reference the reports to Compliance File No. 4917 to facilitate routing to the appropriate staff and file.)

California Regional Water Quality Control Board
320 West 4th Street, Suite 200
Los Angeles, CA90013
Attention: Information Technology Unit.

However, Permittees who have been certified to only submit electronic SMRs to CIWQS should continue doing so, as previously required.

D. Discharge Monitoring Reports (DMRs)

- 1. As described above, at any time during the term of this permit, the State Water Board or Regional Water Board may notify the Permittee to electronically submit DMRs. Until such notification is given specifically for the submittal of DMRs, the Permittee shall submit DMRs in accordance with the requirements described below.
- 2. DMRs must be signed and certified as required by the standard provisions (Attachment D). The Permittee shall submit the original DMR and one copy of the DMR to the address listed below:

STANDARD MAIL	FEDEX/UPS/ OTHER PRIVATE CARRIERS
State Water Resources Control Board Division of Water Quality c/o DMR Processing Center PO Box 100 Sacramento, CA 95812-1000	State Water Resources Control Board Division of Water Quality c/o DMR Processing Center 1001 I Street, 15 th Floor Sacramento, CA 95814

- 3. All discharge monitoring results must be reported on the official USEPA pre-printed DMR forms (EPA Form 3320-1) or on self-generated forms that follow the exact same format of EPA Form 3320-1.

E. Other Reports

- 1. The Permittee shall report the results of any special studies, acute and chronic toxicity testing, TRE/TIE, Pollutant Minimization Program (PMP), and Pollution Prevention Plan required by Special Provisions – section VI.C. The Permittee shall report the progress in satisfaction of compliance schedule dates specified in Special Provisions – VI.C.7. The Permittee shall submit reports in compliance with SMR reporting requirements described in subsection X.B above.
- 2. **Annual Summary Report**

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By April 15 of each year, the Permittee shall submit an annual report containing a discussion of the previous year's influent/effluent analytical results and receiving water monitoring data. The annual report shall contain an overview of any plans for upgrades to the treatment plant's collection system, the treatment processes, or the outfall system. The Permittee shall submit annual report to the Regional Water Board in accordance with the requirements described in subsection X.B.7 above.

Each annual monitoring report shall contain a separate section titled "Reasonable Potential Analysis" which discusses whether or not reasonable potential was triggered for pollutants which do not have a final effluent limitation in the NPDES permit. This section shall contain the following statement: "The analytical results for this sampling period did/ did not trigger reasonable potential." If reasonable potential was triggered, then the following information should also be provided:

- a. A list of the pollutant(s) that triggered reasonable potential;
 - b. The Basin Plan or CTR criteria that was exceeded for each given pollutant;
 - c. The concentration of the pollutant(s);
 - d. The test method used to analyze the sample; and,
 - e. The date and time of sample collection.
3. The Permittee shall submit to the Regional Water Board, together with the first monitoring report required by this permit, a list of all chemicals and proprietary additives which could affect this waste discharge, including quantities of each. Any subsequent changes in types and/or quantities shall be reported promptly.
4. The Regional Water Board requires the Permittee to file with the Regional Water Board, within 90 days after the effective date of this Order, a technical report on his preventive (failsafe) and contingency (cleanup) plans for controlling accidental discharges, and for minimizing the effect of such events. The technical report should:
- a. Identify the possible sources of accidental loss, untreated waste bypass, and contaminated drainage. Loading and storage areas, power outage, waste treatment unit outage, and failure of process equipment, tanks, and pipes should be considered.
 - b. Evaluate the effectiveness of present facilities and procedures and state when they become operational.
 - c. Describe facilities and procedures needed for effective preventive and contingency plans.
 - d. Predict the effectiveness of the proposed facilities and procedures and provide an implementation schedule contingent interim and final dates when they will be constructed, implemented, or operational.

ATTACHMENT F – FACT SHEET

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ATTACHMENT F – FACT SHEET

As described in section I, the Regional Water Board incorporates this Fact Sheet as findings of the Regional Water Board supporting the issuance of this Order. This Fact Sheet includes the legal requirements and technical rationale that serve as the basis for the requirements of this Order.

This Order has been prepared under a standardized format to accommodate a broad range of discharge requirements for Permittees in California. Only those sections or subsections of this Order that are specifically identified as “not applicable” have been determined not to apply to this Permittee. Sections or subsections of this Order not specifically identified as “not applicable” are fully applicable to this Permittee.

I. PERMIT INFORMATION

The following table summarizes administrative information related to the Facility.

Table F-1. Facility Information

WDID	4A560112001
Permittee	City of Thousand Oaks
Name of Facility	Hill Canyon Wastewater Treatment Plant and its associated wastewater collection system and outfall, City of Thousand Oaks
Facility Address	9600 Santa Rosa Road
	Camarillo, CA 93012
	Ventura County
Facility Contact, Title and Phone	Chuck Rogers, Plant Superintendent, (805) 498-4011
Authorized Person to Sign and Submit Reports	Mark D. Watkins, Public Works Director, (805) 449-2399 <u>Chuck Rogers, Plant Superintendent, (805) 498-4011</u>
Mailing Address	2100 Thousand Oaks Blvd. Thousand Oaks, CA 91362
Billing Address	Same as above
Type of Facility	POTW
Major or Minor Facility	Major
Threat to Water Quality	1
Complexity	A
Pretreatment Program	Y
Recycling Requirements	N/A
Facility Permitted Flow	14 million gallons per day (mgd)
Facility Design Flow	14 mgd
Watershed	Calleguas Creek Watershed
Receiving Water	North Fork Arroyo Conejo
Receiving Water Type	Inland surface water

- A.** The City of Thousand Oaks (The City or Permittee) owns and operates a publicly-owned treatment works (POTW) comprised of Hill Canyon Wastewater Treatment Plant (Hill Canyon WWTP or Facility) and its associated wastewater collection system and outfalls.

For the purposes of this Order, references to the “discharger” or “permittee” in applicable federal and state laws, regulations, plans, or policy are held to be equivalent to references to the Permittee herein.

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- B.** The Facility discharges wastewater to North Fork Arroyo Conejo, a water of the United States. The Permittee was previously regulated by Order No. R4-2003-0083 (as revised by Order No. R4-2004-0121) and National Pollutant Discharge Elimination System (NPDES) Permit No. CA0056294 adopted on June 5, 2003, which expired on May 10, 2008. Concurrent with adoption of Order No. R4-2003-0083, this Regional Water Board adopted Time Schedule Order (TSO) No. R4-2003-0084, which prescribed interim effluent limit for chloride. The terms and conditions of Order No. R4-2003-0083 (as revised by Order No. R4-2004-0121) have been automatically continued and remain in effect until the effective date of this Order. Attachment B provides a map of the area around the Facility. Attachment C provides a flow schematic of the Facility.
- C.** On July 7, 2003, the City filed a petition with the State Water Resources Control Board (State Water Board) seeking, in part, review of the chloride effluent limitations in Order No. R4-2003-0083 and TSO No. R4-2003-0084. The City later requested that the State Water Board issue a stay of those limitations.
- D.** On October 20, 2003, Camarillo Sanitary District, the City of Thousand Oaks, the City of Simi Valley and this Regional Water Board entered into a stipulation entitled *Stipulation for Further Order Issuing Stay*, which stayed the final chloride effluent limitations in the NPDES permits, as well as provisions pertaining to chloride limits in TSOs, for those three wastewater treatment plants. Specifically to the Hill Canyon WWTP, the stipulation stayed the final chloride effluent limitations in Order No. R4-2003-0083 and the interim chloride effluent limitations in TSO No. R4-2003-0084. On November 19, 2003, the State Water Board adopted Order WQO 2003-0019 approving the stipulation.
- E.** On October 4, 2007, the Regional Water Board adopted Resolution No. R4-2007-016, *Amendment to the Water Quality Control Plan for the Los Angeles Region to Incorporate a Total Maximum Daily Load for Boron, Chloride, Sulfate, and TDS (Salts) for Calleguas Creek Watershed (Salts TMDL)*. The *Salts TMDL*, which became effective on December 2, 2008, contains interim and final WLAs for the Hill Canyon WWTP, for TDS, Sulfate, Chloride, and Boron. The WLAs for chloride contained in the Regional Water Board's *Salts TMDL* superseded the WLAs for chloride contained in the 2002 USEPA-promulgated *Chloride TMDL*.
- F.** The Permittee filed a report of waste discharge (ROWD) and submitted an application for reissuance of its Waste Discharge Requirements (WDRs) and NPDES permit in 2007. The application was deemed complete and Order No. R4-2003-0083 was administratively extended.
- G.** In April 2008, tentative waste discharge requirements prepared for the Hill Canyon WWTP, and for other wastewater treatment plants in the Calleguas Creek watershed, were provided to interested persons and comments were solicited. However, Regional Water Board staff ultimately chose not to take those tentative waste discharge requirements to the Regional Water Board for consideration since, at that time, the State Water Board was in the process of developing a state-wide policy for chronic toxicity that could impact how the Regional Water Board implements Resolution No. R4-2005-009, *Amendment to the Water Quality Control Plan for the Los Angeles Region to Incorporate a Total Maximum Daily Load for Toxicity, Chlorpyrifos, and Diazinon in Calleguas Creek, its Tributaries, and Mugu Lagoon (Toxicity TMDL)*. Although the State Water Board's policy/plan for chronic toxicity is still under development, the Regional Water Board is proceeding with the renewal of the NPDES permits for the dischargers in Calleguas Creek Watershed, based on direction received from the State Water Resources Control Board to reduce the NPDES backlog.
- H.** The Permittee filed an updated ROWD and submitted an updated application for reissuance of its WDRs and NPDES permit on November 5, 2013. On December 18, 2013, Regional

Water Board staff deemed the application incomplete and requested supplemental information. On January 9, 2014, the Permittee requested a two-week extension of the January 20, 2014 due date for submittal of the supplemental information. On January 23, 2014, Regional Water Board staff responded to the request letter and extended the deadline as requested by the Permittee. The supplemental information was received on January 30 and 31, 2014. ~~A site visit was conducted in March 2014, to observe operations and collect additional data to develop permit limitations and conditions.~~ The application was deemed complete on February 26, 2014, so Order No. R4-2003-0083 remains administratively extended. A site visit was conducted on April 14, in March 2014, to observe operations and collect additional data to develop permit limitations and conditions.

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II. FACILITY DESCRIPTION

A. Description of Wastewater and Biosolids Treatment and Controls

1. The Hill Canyon WWTP is a tertiary wastewater treatment facility with a dry weather design capacity of 14 mgd. The City's wastewater collection system discharges into gravity mainlines known as Unit W and Unit Y, but they are also referred to as South Influent and North Influent, respectively. Influent undergoes preliminary treatment through a rock baffle and step-stair screens, for debris and trash removal. Wastewater undergoes primary clarification, nitrification and denitrification for biological nitrogen removal (BNR), secondary clarification, flow equalization, filtration, disinfection using sodium hypochlorite, dechlorination using sodium bisulfite.
2. The Facility serves an estimated population of 130,000 people. The wastewater is a mixture of domestic wastewater and industrial wastewater that is pre-treated pursuant to title 40 of the Code of Federal Regulations (40 CFR) part 403 under the: City of Thousand Oaks' Pretreatment Program, which was approved by USEPA on June 2, 1982, with concurrence of the Regional Water Board. The City of Thousand Oaks' pretreatment program currently consists of eleven permitted nondomestic dischargers. All eleven are classified as significant industrial users (SIUs) pursuant to 40 CFR 403.3(v). Nine of them are categorical industrial users (CIUs): one is a pharmaceutical manufacturer under 40 CFR 439.16A; three are computer chip manufacturers under 40 CFR 469.18A; three are printed circuit board manufacturers under 40 CFR 433.17; one is a steel manufacturer under 40 CFR 433.15, and, one is a pharmaceutical producer under 40 CFR 439.17 A & D. The City also has a fats, oils, and grease (FOG) program and conducts inspections of its restaurants twice a year.
3. The following are brief descriptions of the major unit processes, operations, and/or equipment:

Primary clarification: In the primary clarifiers, solids are settled out, thickened, and returned to the anaerobic digesters for additional treatment. Primary-treated wastewater is sent to the BNR basins.

Secondary Clarification: Wastewater that has received primary clarification enters the activated sludge basins to undergo nitrogen removal using the Modified Ludzak-Ettinger (MLE) process. Wastewater that has undergone the nitrification/denitrification process is sent to the flow equalization basins/secondary filters. Secondary treated wastewater is sent to an equalization basin and is either stored for future treatment, or is sent to the tertiary filters.

Equalization Basins: Equalization basins allow for adjustments of flow of primary clarifier effluent to the MLE process and/or headworks throughout the day~~to the filters throughout the day and during storm events.~~ They help the system run closer to a steady state condition.

Tertiary filtration: The filtration process is used to remove or reduce suspended or colloidal matter from a liquid stream. Filters remove the solids that the secondary sedimentation process did not remove, thereby improving the disinfection efficiency and reliability. Filter backwash water is returned to the headworks for treatment.

Chlorination: Sodium hypochlorite and aqueous ammonia are used as disinfectants in the chlorine contact chamber. The disinfecting agent is added to the treated effluent to destroy bacteria, pathogens, and viruses, and to minimize algal growth.

Dechlorination: Prior to discharge to North Fork Arroyo Conejo, sodium bisulfite is added to the treated effluent to remove residual chlorine.

Solids handling: Grit and screenings are hauled off-site for disposal in a landfill. Sludge from secondary clarifiers is either pumped either~~to the MLE process (return activated sludge) or to the gravity belt thickeners.~~ Sludge from the belt press is either sun dried at HCTP and hauled to a landfill or hauled directly away~~to a landfill off the belt press.~~

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B. Discharge Points and Receiving Waters

Tertiary-treated wastewater is discharged to the North Fork Arroyo Conejo from Discharge Point 005 (see table on cover page), a water of the United States, and tributary to Calleguas Creek within Calleguas Creek Watershed. The City of Thousand Oaks also discharges stormwater into the North Fork Arroyo Conejo from the Hill Canyon WWTP through Discharge Serial Nos. 001, 002, 003, and 004.

During dry weather (May 1 – October 31), the primary sources of water flow in the receiving waters, downstream of the discharge point, is the Hill Canyon WWTP effluent and other NPDES-permitted discharges, including urban runoff conveyed through the municipal separate storm sewer systems (MS4). Storm water and dry weather urban runoff from MS4 are regulated under an NPDES permit, Waste Discharge Requirements for Municipal Storm Water and Urban Runoff Discharges within the Ventura County Watershed Protection District (formerly known as Ventura County Flood Control District), County of Ventura (Ventura Municipal Permit, NPDES Permit No. CAS004002). The Ventura County Watershed Protection District channelized portions of Calleguas Creek to convey and control floodwater, and to prevent damage to homes located adjacent to the Creek. Calleguas Creek is a water of the United States that conveys floodwater and urban runoff, along with treated waste water. Conejo Creek is unlined at the point of discharge. Groundwater recharge may~~occurs~~ incidentally in these unlined areas of Conejo Creek, and Calleguas Creek, where the underlying sediments are~~may be~~ highly transmissive to water as well as pollutants. Notwithstanding that segments located further downstream of the discharge are concrete-lined, the watershed supports a diversity of wildlife. Threatened and endangered species such as the peregrine falcon, least tern, light-footed clapper rail, and the brown pelican are found in Calleguas Creek and Mugu Lagoon.

C. Summary of Existing Requirements and Self-Monitoring Report (SMR) Data

Effluent limitations contained in the existing Order for discharges from Discharge Point 005 (Monitoring Location EFF-005) and representative monitoring data from the term of the previous Order, as reported in the ROWD, are as follows:

Table F-2. Historic Effluent Limitations and Monitoring Data

Parameter	Units	Effluent Limitation (Order No. R4-2003-0083 (Amended by Order No. R4-2004-0121))			Monitoring Data		
		Average Monthly	Ave. Weekly	Maximum Daily	Highest Average Monthly Discharge	Highest Average Weekly Discharge	Highest Daily Discharge
BOD ₅ 20°C	mg/L	20	30	45	2.2	--	3.9
Total Suspended Solids (TSS)	mg/L	15	40	45	1.4	--	3.1
Oil and Grease	mg/L	10	--	15	<5	--	<5
Settleable Solids	ml/L	0.1	--	0.3	<0.1	--	<0.1
Residual Chlorine	mg/L	--	--	0.1	0.9	--	ND
Total Dissolved Solids	mg/L	850	--	--	549	--	515
MBAS	mg/L	0.5	--	--	0.08	--	<0.05
CTAS		--			<0.2		0.5
Chloride	mg/L	The State Water Board issued a Stay for the final effluent Chloride limitations			119	--	136
Sulfate	mg/L	250	--	--	89	--	95
Boron	mg/L	1	--	--	0.5	--	0.6
Fluoride	mg/L	1.6	--	--	0.8	--	0.9
Organic nitrogen (as N)	mg/L	--	--	--	<0.1	--	0.2
Nitrate + Nitrite as N	mg/L	9	--	--	8	--	7.4
Ammonia as N	mg/L	3.14			2.2	--	1.5
Total nitrogen	mg/L				5.26	--	7.41
Total kjeldahl nitrogen (TKN)	mg/L				5.26	--	7.41
Ortho phosphate	mg/L				4		3.1
Chlorophyll-a	ug/L				ND		ND
Antimony	µg/L	6	--	--	ND	--	ND
Arsenic	µg/L	50	--	--	3	--	2.8
Beryllium	µg/L	--	--	--	<0.3	--	9.5<2
Cadmium	µg/L	5	--	--	0.2	--	ND
Chromium III	µg/L	--	--	--	--	--	--
Chromium VI	µg/L	50	--	--	0.5	--	0.3
Copper	µg/L	17	--	52	6.8	--	4.7
Lead	µg/L	50	--	--	ND	--	ND
Mercury	µg/L	0.051	--	0.14	<0.04	--	<0.2
Nickel	µg/L	100	--	--	2.9	--	2.3
Selenium	µg/L	50	--	--	0.7	--	0.4
Silver	µg/L	50	--	--	ND	--	ND
Thallium	µg/L	--	--	--	ND	--	ND

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Parameter	Units	Effluent Limitation (Order No. R4-2003-0083 (Amended by Order No. R4- 2004-0121))			Monitoring Data		
		Average Monthly	Ave. Weekly	Maximum Daily	Highest Average Monthly Discharge	Highest Average Weekly Discharge	Highest Daily Discharge
Zinc	µg/L	5000	--	--	50	--	38.8
Cyanide	µg/L	4.2	--	8.5	4.9	--	<4
Asbestos	µg/L	--	--	--	--	--	--
2,3,7,8-TCDD (Dioxin)	µg/L	--	--	--	ND	--	ND
Acrolein	µg/L	--	--	--	ND	--	ND
Acrylonitrile	µg/L	--	--	--	< 1.7	--	<5
Benzene	µg/L	1	--	--	< 0.85	--	<5
Bromoform	µg/L	--	--	--	<1	--	<1
Carbon Tetrachloride	µg/L	--	--	--	< 0.68	--	<5
Chlorobenzene	µg/L	--	--	--	<0.7	--	<5
Dibromochloromethane	µg/L	34	--	106	1.6	--	1
Chloroethane	µg/L	--	--	--	< 0.97	--	< 5
2-chloroethyl vinyl ether	µg/L	--	--	--	<2.8	--	< 10
Chloroform	µg/L	--	--	--	8.1	--	4.1
Dichlorobromomethane	µg/L	46	--	137	3.9	--	3
1,1-dichloroethane	µg/L	--	--	--	<0.71	--	< 5
1,2-dichloroethane	µg/L	--	--	--	< 0.9	--	<5
1,1-dichloroethylene	µg/L	--	--	--	< 0.67	--	< 5
1,2-dichloropropane	µg/L	--	--	--	< 0.74	--	< 5
1,3-dichloropropylene	µg/L	--	--	--	< 0.97	--	< 5
Ethylbenzene	µg/L	--	--	--	< 0.56	--	< 5
Methyl bromide	µg/L	--	--	--	<1	--	<5
Methyl chloride	µg/L	5	--	--	<1.2	--	<5
Methylene chloride	µg/L	--	--	--	0.04	--	0.17
1,1,2,2-tetrachloroethane	µg/L	--	--	--	< 0.88	--	< 5
Tetrachloroethylene	µg/L	5	--	--	0.3	--	1.2
Toluene	µg/L	150	--	--	< 0.75	--	< 5
Trans 1,2-Dichloroethylene	µg/L	--	--	--	< 0.73	--	< 5
1,1,1-Trichloroethane	µg/L	--	--	--	< 5	--	< 6.4
1,1,2-Trichloroethane	µg/L	--	--	--	< 0.71	--	< 5
Trichloroethylene	µg/L	--	--	--	< 1	--	< 5
Vinyl Chloride	µg/L	--	--	--	< 0.74	--	< 5
2-chlorophenol	µg/L	--	--	--	< 0.53	--	< 4.8
2,4-dichlorophenol	µg/L	93	--	--	< 0.47	--	< 4.8
2,4-dimethylphenol	µg/L	--	--	--	< 0.87	--	< 9.6

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Parameter	Units	Effluent Limitation (Order No. R4-2003-0083 (Amended by Order No. R4- 2004-0121))			Monitoring Data		
		Average Monthly	Ave. Weekly	Maximum Daily	Highest Average Monthly Discharge	Highest Average Weekly Discharge	Highest Daily Discharge
4,6-dinitro-o-resol(aka 2-methyl-4,6- Dinitrophenol)	µg/L	--	--	--	< 3.9	--	< 20
2,4-dinitrophenol	µg/L	--	--	--	< 32	--	< 48
2-nitrophenol	µg/L	--	--	--	< 0.48	--	< 48
4-nitrophenol	µg/L	--	--	--	< 13	--	< 48
3-Methyl-4- Chlorophenol (aka 4- chloro-m-cresol)	µg/L	300	--	--	< 0.4	--	< 4.8
Pentachlorophenol	µg/L	1	--	--	< 0.94	--	< 29
Phenol	µg/L	300	--	--	<0.43	--	<4.8
2,4,6-trichlorophenol	µg/L	2.1	--	--	<0.49	--	<4.8
Acenaphthene	µg/L	--	--	--	< 0.44	--	< 4.8
Acenaphthylene	µg/L	--	--	--	< 0.42	--	< 4.8
Anthracene	µg/L	--	--	--	< 0.28	--	< 4.8
Benzidine	µg/L	--	--	--	< 18	--	< 96
Benzo(a)Anthracene	µg/L	--	--	--	< 0.32	--	< 4.8
Benzo(a)Pyrene	µg/L	--	--	--	< 0.3	--	< 4.8
Benzo(b)Fluoranthene	µg/L	--	--	--	< 0.31	--	< 4.8
Benzo(ghi)Perylene	µg/L	--	--	--	< 0.34	--	< 4.8
Benzo(k)Fluoranthene	µg/L	--	--	--	< 0.29	--	< 4.8
Bis(2-Chloroethoxy) methane	µg/L	--	--	--	< 0.47	--	< 4.8
Bis(2-Chloroethyl)Ether	µg/L	--	--	--	< 0.48	--	< 4.8
Bis(2-Chloroisopropyl) Ether	µg/L	--	--	--	< 0.5	--	< 4.8
Bis(2-Ethylhexyl) Phthalate	µg/L	4	--	--	1.48	--	5.9
4-Bromophenyl Phenyl Ether	µg/L	--	--	--	< 0.42	--	< 4.8
Butylbenzyl Phthalate	µg/L	--	--	--	< 0.22	--	< 4.8
2-Chloronaphthalene	µg/L	--	--	--	< 0.50	--	< 4.8
4-Chlorophenyl Phenyl Ether	µg/L	--	--	--	< 0.45	--	< 4.8
Chrysene	µg/L	--	--	--	< 0.34	--	< 4.8
Dibenzo(a,h) Anthracene	µg/L	--	--	--	< 0.40	--	< 4.8
1,2-Dichlorobenzene	µg/L	600	--	--	< 0.52	--	< 4.8
1,3-Dichlorobenzene	µg/L	600	--	--	< 0.5	--	< 4.8
1,4-Dichlorobenzene	µg/L	5	--	--	< 0.53	--	< 4.8
3,3'-Dichlorobenzidine	µg/L	--	--	--	<0.099	--	< 20

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Parameter	Units	Effluent Limitation (Order No. R4-2003-0083 (Amended by Order No. R4- 2004-0121))			Monitoring Data		
		Average Monthly	Ave. Weekly	Maximum Daily	Highest Average Monthly Discharge	Highest Average Weekly Discharge	Highest Daily Discharge
Diethyl Phthalate	µg/L	--	--	--	< 0.45	--	< 4.8
Dimethyl Phthalate	µg/L	--	--	--	< 0.78	--	< 4.8
Di-n-Butyl Phthalate	µg/L	--	--	--	< 0.32	--	< 4.8
2-4-Dinitrotoluene	µg/L	--	--	--	< 0.35	--	< 4.8
2-6-Dinitrotoluene	µg/L	--	--	--	< 0.34	--	< 4.8
Di-n-Octyl Phthalate	µg/L	--	--	--	< 0.92	--	< 4.8
1,2-Diphenylhydrazine	µg/L	--	--	--	< 0.42	--	< 4.8
Fluoranthene	µg/L	300	--	--	< 0.34	--	< 4.8
Fluorene	µg/L	--	--	--	< 0.38	--	< 4.8
Hexachlorobenzene	µg/L	--	--	--	< 0.36	--	< 4.8
Hexachlorobutadiene	µg/L	--	--	--	< 0.6	--	< 4.8
Hexachlorocyclopentadiene	µg/L	--	--	--	< 0.38	--	< 4.8
Hexachloroethane	µg/L	--	--	--	< 0.5	--	< 4.8
Indeno(1,2,3-cd)Pyrene	µg/L	--	--	--	< 0.32	--	< 4.8
Isophorone	µg/L	--	--	--	< 0.46	--	< 4.8
Naphthalene	µg/L	--	--	--	< 0.46	--	< 4.8
Nitrobenzene	µg/L	--	--	--	< 0.72	--	< 4.8
N-Nitrosodimethylamine	µg/L	--	--	--	< 0.48	--	< 4.8
N-Nitrosodi-n-Propylamine	µg/L	--	--	--	< 0.43	--	< 4.8
N-Nitrosodiphenylamine	µg/L	--	--	--	< 0.35	--	< 4.8
Phenanthrene	µg/L	--	--	--	< 0.32	--	< 4.8
Pyrene	µg/L	--	--	--	< 0.48	--	< 4.8
1,2,4-Trichlorobenzene	µg/L	--	--	--	< 0.52	--	< 4.8
Aldrin	µg/L	3	--	--	< 0.0015	--	< 0.0050
Alpha-BHC	µg/L	0.7	--	--	< 0.0018	--	< 0.01
Beta-BHC	µg/L	0.3	--	--	< 0.0031	--	< 0.0050
Gamma-BHC (aka Lindane)	µg/L	0.2	--	--	0.00392	--	0.00392
delta-BHC	µg/L	--	--	--	< 0.0021	--	< 0.02
Chlordane	µg/L	0.1	--	--	< 0.01	--	< 0.08
4,4'-DDT	µg/L	--	--	--	< 0.0031	--	< 0.01
4,4'-DDE	µg/L	0.00059	--	0.0012--	<0.0025	--	<0.05
4,4'-DDD	µg/L	0.00084	--	0.0017	< 0.003	--	< 0.05
Dieldrin	µg/L	2.5	--	--	< 0.0021	--	< 0.01
Alpha-Endosulfan	µg/L	--	--	--	< 0.0017	--	< 0.02
Beta-Endosulfan	µg/L	--	--	--	< 0.0019	--	< 0.01
Endosulfan Sulfate	µg/L	--	--	--	< 0.1	--	< 0.1
Endrin	µg/L	2	--	--	<0.0028	--	<0.01

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Parameter	Units	Effluent Limitation (Order No. R4-2003-0083 (Amended by Order No. R4- 2004-0121))			Monitoring Data		
		Average Monthly	Ave. Weekly	Maximum Daily	Highest Average Monthly Discharge	Highest Average Weekly Discharge	Highest Daily Discharge
Endrin Aldehyde	µg/L	--	--	--	< 0.003	--	< 0.01
Heptachlor	µg/L	0.01	--	--	< 0.0017	--	< 0.01
Heptachlor Epoxide	µg/L	0.01	--	--	<0.0019	--	<0.01
PCB 1016	µg/L	--	--	--	< 0.05	--	< 0.5
PCB 1221	µg/L	--	--	--	< 0.06	--	< 0.5
PCB 1232	µg/L	--	--	--	< 0.15	--	< 0.5
PCB 1242	µg/L	--	--	--	< 0.07	--	< 0.5
PCB 1248	µg/L	--	--	--	< 0.06	--	< 0.5
PCB 1254	µg/L	0.00017	--	--	< 0.04	--	< 0.5
PCB 1260	µg/L	--	--	--	< 0.04	--	< 0.5
Toxaphene	µg/L	3	--	--	<0.12	--	<0.5
Barium	µg/L	1000	--	--	8.2	--	6.5
Iron	µg/L	300	--	--	87	--	79
Aluminum	µg/L	1000			16	--	9.7
Manganese	µg/L	50			32	--	24
Halomethanes	µg/L	80	--	--	65.2	--	14.7
Methoxychlor	µg/L	40	--	--	<0.0047	--	<0.01
Tributyltin	µg/L	0.026			ND	--	ND
2,4,-D	µg/L	70	--	--	<0.05	--	<2
2,4,5-TP (Silvex)	µg/L	50	--	--	<0.02	--	<1

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D. Compliance Summary

Monitoring data indicate that the Permittee has consistently complied with the final effluent limitations and interim effluent limitations of Order No. R4-2003-0083, and with the interim effluent limitations in its Time Schedule Order, except for occasional exceedances of: turbidity, total coliform, residual chlorine, cyanide, and bis(2-ethylhexyl)phthalate.

TSO No. R4-2003-0084 was adopted concurrently with the NPDES permit, Order No. R4-2003-0083. This TSO required the Permittee to:

1. Achieve compliance with the nitrate plus nitrite as nitrogen and nitrite-nitrogen limitations within four years of the effective date of the TMDL;
2. Achieve compliance with the ammonia nitrogen limitation by October 24, 2004;
3. Achieve compliance with the Bis(2-ethylhexyl)phthalate limitation by May 10, 2008; and,
4. Develop a work plan which identified implementation tasks that would lead to attainment of the chloride and other salt water quality objective in the Calleguas Creek Watershed.

The Permittee complied with all of the terms of the TSO and is currently in compliance with WLA-based limitations derived from the Nitrogen Compounds TMDL.

The Permittee cannot currently meet the final saltwater CTR criteria-based WLA for copper that is expressed in terms of mass (lbs/day units). Therefore, the Permittee requested a compliance schedule with interim limits for the mass-based copper final effluent limitation contained in this Order. The Regional Water Board may provide interim effluent limitations in a separate Time Schedule Order (TSO).

E. Planned Changes

The Hill Canyon WWTP has successfully undergone changes with respect to nitrogen removal, in order to comply with the *Nutrient TMDL for Calleguas Creek Watershed*. In September 2007, the facility made plant modifications to include chloramination for the reduction of disinfection byproducts from its effluent. At the present, no additional plant changes are planned.

III. APPLICABLE PLANS, POLICIES, AND REGULATIONS

The requirements contained in this Order are based on the requirements and authorities described in this section.

A. Legal Authorities

This Order serves as WDRs pursuant to article 4, chapter 4, division 7 of the California Water Code (CWC) (commencing with section 13260). This Order is also issued pursuant to section 402 of the federal Clean Water Act (CWA) and implementing regulations adopted by the United States Environmental Protection Agency (USEPA) and chapter 5.5, division 7 of the CWC (commencing with section 13370). It shall serve as an NPDES permit for point source discharges from this Facility to surface waters.

B. California Environmental Quality Act (CEQA)

Under CWC section 13389, this action to adopt an NPDES permit is exempt from the provisions of Chapter 3 of CEQA, (commencing with section 21100) of division 13 of the Public Resources Code.

C. State and Federal Laws, Regulations, Policies, and Plans

1. **Water Quality Control Plan.** The Regional Water Board adopted a Water Quality Control Plan for the Los Angeles Region (Basin Plan) on June 4, 1994 that designates beneficial uses, establishes water quality objectives (WQOs), and contains implementation programs and policies to achieve those objectives for all waters addressed through the plan. Requirements in this Order implement the Basin Plan. In addition, the Basin Plan implements State Water Board Resolution 88-63, which established state policy that all waters, with certain exceptions, should be considered suitable or potentially suitable for municipal or domestic supply. On May 26, 2000, the USEPA approved the revised Basin Plan except for the implementation plan for potential MUN-designated water bodies. On August 22, 2000, the City of Los Angeles, City of Burbank, City of Simi Valley, and the County Sanitation Districts of Los Angeles County challenged USEPA's water quality standards action in the U.S. District Court. On December 18, ~~2011~~2001, the court issued an order remanding the matter to USEPA to take further action on the 1994 Basin Plan consistent with the court's decision. On February 15, 2002, USEPA revised its decision and approved the 1994 Basin Plan in whole. In its February 15, 2002 letter, USEPA stated:

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EPA bases its approval on the court’s finding that the Regional Board’s identification of waters with an asterisk (“*”) in conjunction with the implementation language at page 2-4 of the 1994 Basin Plan, was intended “to only conditionally designate and not finally designate as MUN those water bodies identified by an (“*”) for the MUN use in Table 2-1 of the Basin Plan, without further action.” Court Order at p. 4. Thus, the waters identified with an (“*”) in Table 2-1 do not have MUN as a designated use until such time as the State undertakes additional study and modifies its Basin Plan. Because this conditional use designation has no legal effect, it does not constitute a new water quality standard subject to EPA review under section 303(c)(3) of the Clean Water Act (“CWA”). 33 U.S.C. § 1313(c)(3).

USEPA’s decision has no effect on the MUN designations of groundwater.

Beneficial uses applicable to North Fork Arroyo Conejo are as follows:

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Table F-4a. Basin Plan Beneficial Uses – Receiving Waters

Hydrologic Unit Code (HUC)	Receiving Water Name	Beneficial Use(s)
180701030104(formerly Calwater Hydro Unit 403.64)	Calleguas Creek Reach 12 (formerly North Fork Arroyo Conejo)	<u>Existing:</u> agricultural supply (AGR), ground water recharge (GWR), freshwater replenishment (FRSH), contact (REC-1) and non-contact water recreation (REC-2), warm freshwater habitat (WARM), wildlife habitat (WILD), and spawning, reproduction, and/or early development (SPWN) <u>Potential:</u> Municipal and domestic water supply (MUN ¹)
180701030107 (formerly Calwater Hydro Unit 403.64)	Calleguas Creek Reach 10 (Arroyo Conejo)	<u>Intermittent:</u> GWR, FRSH, WARM, REC1, and REC2 <u>Existing:</u> WARM and RARE <u>Potential:</u> MUN ¹
180701030105 (formerly Calwater Hydro Unit 403.12)	Calleguas Creek Reach 9A (Conejo Creek)	<u>Existing:</u> industrial service supply (IND), industrial process supply (PROC), AGR, GWR, REC-1, REC-2, WARM, and WILD <u>Potential:</u> MUN ¹
180701030105 (formerly Calwater Hydro Unit 403.12)	Calleguas Creek Reach 9B (Conejo Creek)	<u>Existing:</u> IND, PROC, AGR, GWR, WARM, and WILD <u>Intermittent:</u> REC-1 and REC-2 <u>Potential:</u> MUN ¹
180701030107 (formerly Calwater Hydro Unit 403.12)	Calleguas Creek Reach 3 (Calleguas Creek)	<u>Existing:</u> IND, PROC, AGR, GWR, REC1, REC2, WARM, WILD <u>Potential:</u> MUN ¹
180701030107 (formerly Calwater Hydro Unit 403.11)	Calleguas Creek Reach 2 (Calleguas Creek)	<u>Existing:</u> AGR, GWR, FRSH, REC-1, REC-2, WARM, cold freshwater habitat (COLD), WILD, rare, threatened, or endangered species (RARE), and wetland habitat (WET); <u>Potential:</u> MUN ¹
180701030107 (formerly Calwater Hydro Unit 403.11)	Calleguas Creek Reach 1 (formerly Mugu Lagoon)	<u>Existing:</u> Navigation (NAV), REC-2, commercial and sport fishing (COMM), estuarine habitat (EST), marine habitat (MAR), WILD, preservation of biological habitats (BIOL), RARE, migration of aquatic organisms (MIGR), shellfish harvesting (SHELL), and WET. <u>Potential:</u> REC-1

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Beneficial uses of the receiving ground waters are as follows:

¹ The potential municipal and domestic supply (p*MUN) beneficial use for the waterbody is consistent with the State Water Resources Control Board Resolution 88-63 and Regional Water Board Resolution No. 89-003; however, the Regional Water Board has only conditionally designated the MUN beneficial use of the surface water and at this time cannot establish effluent limitations designed to protect the conditional designation.

Table F-4b. Basin Plan Beneficial Uses – Ground Waters

Department of Water Resources (DWR) Basin	Receiving Water Name	Beneficial Use(s)				
		MUN	IND	PROC	AGR	AQUA
4-7	Arroyo Santa Rosa Valley	existing	existing	existing	existing	
4-6	Pleasant Valley					
	Confined Aquifer	existing	existing	existing	existing	
	Unconfined Aquifer	potential	existing	existing	existing	
4-4.02	Oxnard					
	Confined Aquifer	existing	existing	existing	existing	
	Unconfined Aquifer	existing	potential		existing	
	Oxnard Forebay	existing	existing	existing	existing	

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2. **National Toxics Rule (NTR) and California Toxics Rule (CTR).** USEPA adopted the NTR on December 22, 1992, and later amended it on May 4, 1995 and November 9, 1999. About forty criteria in the NTR applied in California. On May 18, 2000, USEPA adopted the CTR. The CTR promulgated new toxics criteria for California and, in addition, incorporated the previously adopted NTR criteria that were applicable in the state. The CTR was amended on February 13, 2001. These rules contain federal water quality criteria for priority pollutants.
3. **State Implementation Policy (SIP).** On March 2, 2000, the State Water Board adopted the Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California (State Implementation Policy or SIP). The SIP became effective on April 28, 2000, with respect to the priority pollutant criteria promulgated for California by the USEPA through the NTR and to the priority pollutant objectives established by the Regional Water Board in the Basin Plan. The SIP became effective on May 18, 2000, with respect to the priority pollutant criteria promulgated by the USEPA through the CTR. The State Water Board adopted amendments to the SIP on February 24, 2005, that became effective on July 13, 2005. The SIP establishes implementation provisions for priority pollutant criteria and objectives and provisions for chronic toxicity control. Requirements of this Order implement the SIP.
4. **Alaska Rule.** On March 30, 2000, USEPA revised its regulation that specifies when new and revised state and tribal water quality standards become effective for CWA purposes (40 CFR § 131.21, 65 Federal Register 24641 (April 27, 2000)). Under the revised regulation (also known as the Alaska Rule), new and revised standards submitted to USEPA after May 30, 2000, must be approved by USEPA before being used for CWA purposes. The final rule also provides that standards already in effect and submitted to USEPA by May 30, 2000, may be used for CWA purposes, whether or not approved by USEPA.
5. **Stringency of Requirements for Individual Pollutants.** This Order contains both technology-based effluent limitations (TBELs) and water quality-based effluent limitations (WQBELs) for individual pollutants. The TBELs consist of restrictions on BOD, TSS, oil and grease, settleable solids, turbidity, pH, and percent removal of BOD and TSS. Restrictions on BOD, TSS, oil and grease, settleable solids, turbidity, and pH are discussed in section IV.B.2 of the Fact Sheet. This Order’s technology-based pollutant restrictions implement the minimum, applicable federal technology-based requirements. In addition, this Order contains effluent limitations more stringent than the minimum, federal technology-based requirements that are carried over from the previous permit.

WQBELs have been scientifically derived to implement WQOs that protect beneficial uses. Both the beneficial uses and the WQOs have been approved pursuant to federal law and are the applicable federal water quality standards. All beneficial uses and WQOs contained in the Basin Plan and the Ocean Plan were approved under state law and submitted to and approved by USEPA prior to May 30, 2000. Any WQOs and beneficial uses submitted to USEPA prior to May 30, 2000, but not approved by USEPA before that date, are nonetheless “applicable water quality standards for purposes of the CWA” pursuant to 40 CFR § 131.21(c)(1). Collectively, this Order’s restrictions on individual pollutants are no more stringent than required to implement the requirements of the CWA.

6. **Antidegradation Policies.** Federal regulation 40 CFR § 131.12 requires that state water quality standards include an antidegradation policy consistent with the federal antidegradation policy. The State Water Board established California’s antidegradation policy in State Water Board Resolution 68-16 (“Statement of Policy with Respect to Maintaining the Quality of the Waters of the State”). Resolution 68-16 is deemed to incorporate the federal antidegradation policy where the federal policy applies under federal law. Resolution 68-16 requires that existing water quality be maintained unless degradation is justified based on specific findings. The Regional Water Board’s Basin Plan implements, and incorporates by reference, both the State and federal antidegradation policies. The permitted discharge must be consistent with the antidegradation provisions of 40 CFR § 131.12 and State Water Board Resolution 68-16.
7. **Anti-Backsliding Requirements.** Sections 402(o) and 303(d)(4) of the CWA and federal regulations at 40 CFR § 122.44(l) restrict backsliding in NPDES permits. These anti-backsliding provisions require that effluent limitations in a reissued permit must be as stringent as those in the previous permit, with some exceptions in which limitations may be relaxed.
8. **Endangered Species Act (ESA) Requirements.** This Order does not authorize any act that results in the taking of a threatened or endangered species or any act that is now prohibited, or becomes prohibited in the future, under either the California ESA (Fish and Game Code, sections 2050 to 2097) or the Federal ESA (16 USC sections 1531 to 1544). This Order requires compliance with effluent limits, receiving water limits, and other requirements to protect the beneficial uses of waters of the state, including protecting rare, threatened, or endangered species. The Permittee is responsible for meeting all requirements of the applicable ESA.
9. **Water Rights.** Prior to making any change in the point of discharge, place of use, or purpose of use of treated wastewater that results in a decrease of flow in any portion of a surface or subterranean stream, the Permittee must file a petition with the State Water Board (State Water Board), Division of Water Rights, and receive approval for such a change. The State Water Board retains the jurisdictional authority to enforce such requirements under CWC section 1211.
10. **Domestic Water Quality.** It is the policy of the State of California that every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes. This Order promotes that policy by requiring discharges to meet maximum contaminant levels developed to protect human health and ensure that water is safe for domestic use.

11. **Water Recycling** - In accordance with statewide policies concerning water reclamation², this Regional Water Board strongly encourages, wherever practical, water recycling, water conservation, and use of storm water and dry-weather urban runoff. Section VI.C.2.d of the WDR requires the Permittee to investigate the feasibility of recycling, conservation, and/or alternative disposal methods of wastewater (such as groundwater injection), and/or use of storm water and dry-weather urban runoff. City of Thousand Oaks indicated in correspondence that it will contract a consultant to evaluate the feasibility of expanding its recycled water program, currently existing under a water rights petition. The Permittee shall submit a report summarizing its plans for recycled water expansion efforts to the Regional Water Board 180 days after the effective date of this Order and a separate report 30 days after completion of a major project~~this feasibility study to the Regional Water Board 180 days after the effective date of this Order.~~
12. **Monitoring and Reporting.** 40 CFR § 122.48 requires that all NPDES permits specify requirements for recording and reporting monitoring results. CWC sections 13267 and 13383 authorize the Regional Water Board to require technical and monitoring reports. The Monitoring and Reporting Program (MRP) establishes monitoring and reporting requirements to implement federal and state requirements. This MRP is provided in Attachment E.
13. **Sewage Sludge/Biosolids Requirements.** Section 405 of the CWA and implementing regulations at 40 CFR part 503 require that producers of sewage sludge/biosolids meet certain reporting, handling, and use or disposal requirements. The state has not been delegated the authority to implement this program; therefore, USEPA is the implementing agency. This Order contains sewage sludge/biosolids requirements pursuant to 40 CFR part 503 that are applicable to the Permittee.

D. Impaired Water Bodies on CWA 303(d) List

The State Water Board proposed the California 2008-2010 Integrated Report from a compilation of the adopted Regional Water Boards' Integrated Reports containing 303(d) List of Impaired Waters and 305(b) Reports following recommendations from the Regional Water Boards and information solicited from the public and other interested parties. The Regional Water Boards' Integrated Reports were used to revise its 2006 303(d) List. On August 4, 2010, the State Water Board adopted the California 2008-2010 Integrated Report. On November 12, 2010, the USEPA approved California 2008-2010 Integrated Report Section 303(d) List of Impaired Waters requiring Total Maximum Daily Loads (TMDL) for the Los Angeles Region. The 303(d) List can be viewed at the following link:

http://www.waterboards.ca.gov/water_issues/programs/tmdl/integrated2010.shtml

North Fork Arroyo Conejo and Calleguas Creek Estuary are in the California 2008-2010 Integrated Report. The following are the identified pollutants impacting the receiving water:

Calleguas Creek Reach 10 (was part of Conejo Creek Reaches 2 & 3 and lower Conejo Creek on the 1998 303(d) list)

Pollutants: Ammonia, ChemA (tissue), chlordane (tissue), chloride, chlorpyrifos, DDT (tissue), diazinon, dieldrin, endosulfan (tissue), fecal coliform, nitrogen nitrite, polychlorinated biphenyls (PCBs), sulfates, TDS, toxaphene, toxicity, and trash;

² See, e.g., CWC sections 13000 and 13550-13557, State Water Board Resolution No. 77-1 (Policy with Respect to Water Reclamation in California), and State Water Board Resolution No. 2009-0011 (Recycled Water Policy).

Calleguas Creek Reach 9A (was lower part of Conejo Creek Reach 1 on 1998 303(d) list)

Pollutants: ChemA (tissue), chlordane (tissue), chlorpyrifos, DDT, diazinon, dieldrin (tissue), endosulfan (tissue), fecal coliform, lindane, nitrate as nitrogen, nitrogen nitrate, polychlorinated biphenyls (PCBs), sulfates, TDS, toxaphene, toxicity, and trash.

Calleguas Creek Reach 9B (was lower part of Conejo Creek Reach 1 & 2 on 1998 303(d) list)

Pollutants: Ammonia, ChemA (tissue), chlordane (tissue), chloride, chlorpyrifos, DDT (tissue), diazinon, dieldrin (tissue), endosulfan (tissue), indicator bacteria, polychlorinated biphenyls (PCBs), sulfates, TDS, toxaphene, toxicity, and trash.

Calleguas Creek Reach 3 (Potrero Road upstream to confluence with Conejo Creek on 1998 303(d) List) - Calwater Watershed 40312000

Pollutants: Ammonia, chlordane, chloride, DDT, dieldrin, nitrate and nitrite, polychlorinated biphenyls (PCBs), sedimentation/siltation, total dissolved solids, toxaphene, and trash.

Calleguas Creek Reach 2 (Estuary to Potrero Road - was Calleguas Creek Reaches 1 and 2 on 1998 303(d) List) - Calwater Watershed 40312000

Pollutants: Ammonia, chemA (tissue), chlordane (tissue), dissolved copper, DDT, dieldrin, endosulfan (tissue), fecal coliform, nitrogen, PCBs (tissue), sediment toxicity, sedimentation/siltation, toxaphene (tissue and sediment), and trash.

E. Other Plans, Policies and Regulations

1. Sources of Drinking Water (SODW) Policy. On May 19, 1988, the State Water Board adopted Resolution No. 88-63, Sources of Drinking Water (SODW) Policy, which established a policy that all surface and ground waters, with limited exemptions, are suitable or potentially suitable for municipal and domestic supply. To be consistent with State Water Board's SODW Policy, on March 27, 1989, the Regional Water Board adopted Resolution No. 89-03, Incorporation of Sources of Drinking Water Policy into the Water Quality Control Plans (Basin Plans) – Santa Clara River Basin (4A)/ Los Angeles River Basin (4B).

Consistent with Regional Water Board Resolution No. 89-03 and State Water Board Resolution No. 88-63, in 1994, the Regional Water Board conditionally designated all inland surface waters in Table 2-1 of the 1994 Basin Plan as existing, intermittent, or potential for Municipal and Domestic Supply (MUN). However, the conditional designation in the 1994 Basin Plan included the following implementation provision: "no new effluent limitations will be placed in Waste Discharge Requirements as a result of these [potential MUN designations made pursuant to the SODW policy and the Regional Water Board's enabling resolution] until the Regional Water Board adopts [a special Basin Plan Amendment that incorporates a detailed review of the waters in the Region that should be exempted from the potential MUN designations arising from SODW policy and the Regional Water Board's enabling resolution]." On February 15, 2002, the USEPA clarified its partial approval (May 26, 2000) of the 1994 Basin Plan amendments and acknowledged that the conditional designations do not currently have a legal effect, do not reflect new water quality standards subject to USEPA review, and do not support new effluent limitations based on the conditional designations stemming from the SODW Policy until a subsequent review by the Regional Water Board finalizes the designations for these waters. This permit is designed to be consistent with the existing Basin Plan.

2. **Title 22 of the California Code of Regulations (CCR Title 22).** The California Department of Public Health (CDPH) established primary and secondary maximum contaminant levels (MCLs) for inorganic, organic, and radioactive contaminants in drinking water. These MCLs are codified in Title 22. The Basin Plan (Chapter 3) incorporates Title 22 primary MCLs by reference. This incorporation by reference is prospective, including future changes to the incorporated provisions as the changes take effect. Title 22 primary MCLs have been used as bases for effluent limitations in WDRs and NPDES permits to protect groundwater recharge beneficial use when that receiving groundwater is designated as MUN. Also, the Basin Plan specifies that “Ground waters shall not contain taste or odor-producing substances in concentrations that cause nuisance or adversely affect beneficial uses.”
3. **Secondary Treatment Regulations.** 40 CFR part 133 of establishes the minimum levels of effluent quality to be achieved by secondary treatment. These limitations, established by USEPA, are incorporated into this Order, except where more stringent limitations are required by other applicable plans, policies, or regulations or to prevent backsliding.
4. **Storm Water.** CWA section 402(p), as amended by the Water Quality Act of 1987, requires NPDES permits for storm water discharges. Pursuant to this requirement, in 1990, USEPA promulgated 40 CFR § 122.26 that established requirements for storm water discharges under an NPDES program. To facilitate compliance with federal regulations, on November 1991, the State Water Board issued a statewide general permit, *General NPDES Permit No. CAS000001 and Waste Discharge Requirements for Discharges of Storm Water Associated with Industrial Activities*. This permit was amended in September 1992 and reissued on April 17, 1997 in State Water Board Order No. 97-03-DWQ to regulate storm water discharges associated with industrial activity.

General NPDES permit No. CAS000001 is applicable to the Hill Canyon WWTP. Although the Facility typically captures and treats storm water that falls on the premises, the City of Thousand Oaks retains coverage under the General NPDES permit in case a large storm generates more stormwater runoff than the Facility can contain in its stormwater retention basin. [General NPDES Permit No. CAS000001 was revised on April 1, 2014 and becomes effective on July 1, 2015.](#)

5. **Sanitary Sewer Overflows (SSOs).** The CWA prohibits the discharge of pollutants from point sources to surface waters of the United States unless authorized under an NPDES permit. (33 United States Code (USC) sections 1311 and 1342). The State Water Board adopted General WDRs for Sanitary Sewer Systems, (Water Quality Order No. 2006-0003-DWQ; SSO WDR) on May 2, 2006, to provide a consistent, statewide regulatory approach to address SSOs. The SSO WDR requires public agencies that own or operate sanitary sewer systems to apply for coverage under the SSO WDR, develop and implement sewer system management plans, and report all SSOs to the State Water Board’s online SSO database. Regardless of the coverage obtained under the SSO WDR, the Permittee’s collection system is part of the POTW that is subject to this NPDES permit. As such, pursuant to federal regulations, the Permittee must properly operate and maintain its collection system (40 CFR § 122.41(e)), report any non-compliance (40 CFR § 122.41(1)(6) and (7)), and mitigate any discharge from the collection system in violation of this NPDES permit (40 CFR § 122.41(d)).

The requirements contained in this Order sections VI.C.3.b (Spill Cleanup Contingency Plan section), VI.C.4 (Construction, Operation and Maintenance Specifications section), and VI.C.6 (Spill Reporting Requirements section) are intended to be consistent with the requirements of the SSO WDR. The Regional Water Board recognizes that there may

be some overlap between these NPDES permit provisions and SSO WDR requirements, related to the collection systems. The requirements of the SSO WDR are considered the minimum thresholds (see Finding 11 of State Water Board Order No. 2006-0003-DWQ). To encourage efficiency, the Regional Water Board will accept the documentation prepared by the Permittees under the SSO WDR for compliance purposes as satisfying the requirements in sections VI.C.3.b, VI.C.4, and VI.C.6, provided the more stringent provisions contained in this NPDES permit are also addressed. Pursuant to SSO WDR, section D, provision 2(iii) and (iv), the provisions of this NPDES permit supersede the SSO WDR, for all purposes, including enforcement, to the extent the requirements may be deemed duplicative.

6. **Watershed Management** - This Regional Water Board has been implementing a Watershed Management Approach (WMA) to address water quality protection in the Los Angeles Region following the USEPA guidance in *Watershed Protection: A Project Focus* (EPA841-R-95-003, August 1995). The objective of the WMA is to provide a more comprehensive and integrated strategy resulting in water resource protection, enhancement, and restoration while balancing economic and environmental impacts within a hydrologically-defined drainage basin or watershed. The WMA emphasizes cooperative relationships between regulatory agencies, the regulated community, environmental groups, and other stakeholders in the watershed to achieve the greatest environmental improvements with the resources available. The WMA integrates activities across the Regional Water Board's diverse programs, particularly permitting, planning, and other surface water-oriented programs that have tended to operate somewhat independently of each other.

The Regional Water Board has prepared and periodically updates its Watershed Management Initiative Chapter, the latest is updated December 2007. This document contains a summary of the region's approach to watershed management. It addresses each watershed and the associated water quality problems and issues. It describes the background and history of each watershed, current and future activities, and addresses TMDL development. The information can be accessed on our website:

<http://www.waterboards.ca.gov/losangeles>.

7. **Relevant TMDLs** – Section 303(d) of the CWA requires states to identify water bodies that do not meet water quality standards and then to establish TMDLs for each waterbody for each pollutant of concern. TMDLs identify the maximum amount of pollutants that can be discharged to waterbodies without causing violations of water quality standards.
 - a. **Calleguas Creek Watershed Salts TMDL** - On October 4, 2007, the Regional Water Board adopted Resolution No. R4-2007-016, *Amendment to the Water Quality Control Plan – Los Angeles Region to Incorporate the Total Maximum Daily Load for Boron, Chloride, Sulfate, and TDS (Salts) in the Calleguas Creek Watershed*. This Resolution was approved by the State Water Board, Office of Administrative Law, and USEPA on May 20, 2008, November 6, 2008, and December 2, 2008, respectively. This TMDL became effective on December 2, 2008.
 - b. **Calleguas Creek Watershed Nitrogen Compounds and Related Effects TMDL** - On October 24, 2002, the Regional Water Board adopted Resolution No. 02-017, *Amendment to the Water Quality Control Plan for the Los Angeles Region to Include a TMDL for Nitrogen Compounds and Related Effects in Calleguas Creek (Nitrogen Compounds TMDL)*. This Resolution was approved by the State Water Board, Office of Administrative Law, and USEPA on March 19, 2003, June 5, 2003, and June 20, 2003, respectively.

On September 11, 2008, the Regional Water Board adopted Resolution No. R4-2008-009, *Amendment to the Water Quality Control Plan for the Los Angeles Region through revision of the Waste Load Allocation for the Calleguas Creek Watershed Nitrogen Compounds and Related Effects Total Maximum Daily Load (revised Nitrogen Compounds TMDL)*. This Basin Plan amendment corrects the mass based daily WLAs for ammonia to be used based upon MDEL, and updates the WLAs to be consistent with the current practice of recognizing that the flow is variable. The mass based WLAs for ammonia are corrected to be based on the maximum daily effluent limit, MDEL and the actual POTW effluent flow rate at the time the monitoring is conducted. This Order includes effluent limitations for nitrogen compounds established by the revised *Nitrogen Compounds TMDL* which became effective on October 15, 2009.

- c. **Calleguas Creek Toxicity, Chlorpyrifos, and Diazinon TMDL** - On July 7, 2005, the Regional Water Board adopted Resolution No. R4-2005-009, *Amendment to the Water Quality Control Plan for the Los Angeles Region to Incorporate a Total Maximum Daily Load for Toxicity, Chlorpyrifos, and Diazinon in Calleguas Creek, its Tributaries, and Mugu Lagoon (Toxicity TMDL)*. This Resolution was approved by the State Water Board, Office of Administrative Law, and USEPA on September 22, 2005, November 27, 2005, and March 14, 2006, respectively. This Order includes effluent limitations for chlorpyrifos and diazinon established by the *Toxicity TMDL* which became effective on March 24, 2006. The toxicity WLA will be implemented in accordance with USEPA, State Water Board, and Regional Water Board resolutions, guidance, and policy at the time of permit issuance or renewal.
- d. **Calleguas Creek OC Pesticides and PCBs TMDL** - On July 7, 2005, the Regional Water Board adopted Resolution No. R4-2005-010, *Amendment to the Water Quality Control Plan for the Los Angeles Region to Incorporate a Total Maximum Daily Load for Organochlorine Pesticides, Polychlorinated Biphenyls, and Siltation in Calleguas Creek, its Tributaries, and Mugu Lagoon (OC Pesticides and PCBs TMDL)*. This Resolution was approved by the State Water Board, Office of Administrative Law, and USEPA on September 22, 2005, January 20, 2006, and March 14, 2006, respectively. This Order includes effluent limitations for OC pesticides and PCBs based on the final WLAs established by the *OC Pesticides and PCBs TMDL*, which became effective on March 24, 2006.
- e. **Calleguas Creek Watershed Metals TMDL** – On June 8, 2006, the Regional Water Board adopted Resolution No. R4-2006-012, *Amendment to the Water Quality Control Plan for the Los Angeles Region to Incorporate a Total Maximum Daily Load for Metals for the Calleguas Creek, its Tributaries, and Mugu Lagoon (Metals TMDL)*. This Resolution was approved by the State Water Board, Office of Administrative Law, and USEPA on October 25, 2006, February 6, 2007, and March 26, 2007, respectively. This Order includes effluent limitations for metals consistent with the assumptions of the *Metals TMDL* which became effective on March 26, 2007.
- i. **Calleguas Creek Copper WER** – On November 9, 2006, the Regional Water Board adopted Resolution No. R4-2006-022, *Amendment to the Water Quality Control Plan for the Los Angeles Region Water Effects Ratios (WERs) for Copper in Lower Calleguas Creek and Mugu Lagoon Located in the Calleguas Creek Watershed, Ventura County (Copper WER)*. This Resolution was approved by the State Water Board, Office of Administrative Law, and USEPA on June 19, 2007, August 16, 2007, and August 23, 2007, respectively. The 3.69 copper WER is protective of the saltwater copper criteria for Reach 1 of

Calleguas Creek. Use of the copper WER for the final mass-based WLAs is consistent with the *Metals TMDL*.

IV. RATIONALE FOR EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS

The CWA requires point source dischargers to control the amount of conventional, non-conventional, and toxic pollutants that are discharged into the waters of the United States. The control of pollutants discharged is established through effluent limitations and other requirements in NPDES permits. There are two principal bases for effluent limitations in 40 CFR § 122.44(a) requires that permits include applicable TBELs and standards; and 40 CFR § 122.44(d) requires that permits include WQBELs to attain and maintain applicable numeric and narrative water quality criteria to protect the beneficial uses of the receiving water.

The variety of potential pollutants found in the Facility discharges presents a potential for aggregate toxic effects to occur. Whole effluent toxicity (WET) is an indicator of the combined effect of pollutants contained in the discharge. Chronic toxicity is a more stringent requirement than acute toxicity. Therefore, chronic toxicity is considered pollutant of concern for protection and evaluation of narrative Basin Plan Objectives.

A. Discharge Prohibitions

Effluent and receiving water limitations in this Board Order are based on the CWA, Basin Plan, State Water Board's plans and policies, USEPA guidance and regulations, and best practicable waste treatment technology. This Order authorizes the discharge of tertiary-treated wastewater from Discharge Point 005 only. It does not authorize any other types of discharges.

B. Technology-Based Effluent Limitations (TBELs)

1. Scope and Authority

Technology-based effluent limits require a minimum level of treatment for industrial/municipal point sources based on currently available treatment technologies while allowing the discharger to use any available control techniques to meet the effluent limits. The 1972 CWA required POTWs to meet performance requirements based on available wastewater treatment technology. Section 301 of the CWA established a required performance level--referred to as "secondary treatment" --that all POTWs were required to meet by July 1, 1977. More specifically, section 301(b)(1)(B) of the CWA required that USEPA develop secondary treatment standards for POTWs as defined in section 304(d)(1). Based on this statutory requirement, USEPA developed national secondary treatment regulations which are specified in 40 CFR part 133. These technology- based regulations apply to all POTWs and identify the minimum level of effluent quality to be attained by secondary treatment in terms of BOD₅20°C, TSS, and pH.

2. Applicable TBELs

This Facility is subject to the technology-based regulations for the minimum level of effluent quality attainable by secondary treatment in terms of BOD₅20°C, TSS, and pH. However, all TBELs from the previous Order No. R4-2003-0083 (as revised by Order No. R4-2004-0121) are based on tertiary-treated wastewater treatment standards. These effluent limitations have been carried over from the previous Order to avoid backsliding. Further, mass-based effluent limitations are based on a design flow rate of 7.25 mgd. The removal efficiency for BOD and TSS is set at the minimum level attainable by secondary treatment technology. The principal design parameter for wastewater treatment plants is the daily BOD and TSS loading rates and the corresponding removal

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rate of the system. In applying 40 CFR Part 133 for weekly and monthly average BOD and TSS limitations, the application of tertiary treatment processes results in the ability to achieve lower levels for BOD and TSS than the secondary standards. In addition to the average weekly and average monthly effluent limitations, a daily maximum effluent limitation for BOD and TSS is included in the Order to ensure that the treatment works are not organically overloaded and operate in accordance with design capabilities. The following Table summarizes the TBELs applicable to the Facility:

Table F-5. Summary of TBELs

Parameter	Units	Effluent Limitations				
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
BOD ₅ 20°C	mg/L	20	30	45		
	lbs/day ³	2,300	3,500	5,200		
TSS	mg/L	15	40	45		
	lbs/day ³	1,750	4,600	5,200		
pH	standard units	--	--	--	6.5	8.5
Removal Efficiency for BOD and TSS	%	85	--	--		

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This Facility is also subject to TBELs contained in similar NPDES permits, for similar facilities, based on the treatment level achievable by tertiary-treated wastewater treatment systems. These effluent limitations are consistent with the State Water Board precedential decision, State Water Board Order No. WQ 2004-0010 for the City of Woodland. The Hill Canyon WWTP is able to meet these limitations with the existing treatment processes in place in the POTW.

C. Water Quality-Based Effluent Limitations (WQBELs)

1. Scope and Authority

CWA section 301(b) and 40 CFR § 122.44(d) require that permits include limitations more stringent than applicable federal technology-based requirements where necessary to achieve applicable water quality standards. This Order contains requirements, expressed as a technology equivalence requirement, that are necessary to achieve water quality standards. The Regional Water Board has considered the factors listed in CWC section 13241 in establishing these requirements. The rationale for these requirements, which consist of tertiary treatment or equivalent requirements or other provisions, is discussed starting from section IV.C.2.

40 CFR § 122.44(d)(1)(i) requires that permits include effluent limitations for all pollutants that are or may be discharged at levels that have the reasonable potential to cause or contribute to an exceedance of a water quality standard, including numeric and narrative objectives within a standard. Where reasonable potential has been established for a pollutant, but there is no numeric criterion or objective for the pollutant, WQBELs must be established using (1) USEPA criteria guidance under CWA section 304(a),

³ The mass emission rates are based on the plant design flow rate of 14 mgd, and are calculated as follows: Flow (mgd) x Concentration (mg/L) x 8.34 (conversion factor) = lbs/day. During wet-weather storm events in which the flow exceeds the design capacity, the mass discharge rate limitations shall not apply, and concentration limitations will provide the only applicable effluent limitations.

supplemented where necessary by other relevant information; (2) an indicator parameter for the pollutant of concern; or (3) a calculated numeric water quality criterion, such as a proposed state criterion or policy interpreting the state's narrative criterion, supplemented with other relevant information, as provided in 40 CFR § 122.44(d)(1)(vi).

The process for determining reasonable potential and calculating WQBELs when necessary is intended to protect the designated uses of the receiving water as specified in the Basin Plan, and achieve applicable WQOs and criteria that are contained in other state plans and policies, or any applicable water quality criteria contained in the CTR and NTR.

2. **Applicable Beneficial Uses and Water Quality Criteria and Objectives**

- a. The Basin Plan establishes the beneficial uses for surface water bodies in the Los Angeles region. The beneficial uses of the North Fork Arroyo Conejo affected by the discharge have been described previously in this Fact Sheet.
- b. The Basin Plan also specifies narrative and numeric WQOs applicable to surface water as shown in the following discussions.

i. **BOD₅20°C and TSS**

BOD₅20°C is a measure of the quantity of the organic matter in the water and, therefore, the water's potential for becoming depleted in dissolved oxygen. As organic degradation takes place, bacteria and other decomposers use the oxygen in the water for respiration. Unless there is a steady resupply of oxygen to the system, the water will quickly become depleted of oxygen. Adequate dissolved oxygen levels are required to support aquatic life. Depressions of dissolved oxygen can lead to anaerobic conditions resulting in odors, or, in extreme cases, fish kills.

40 CFR part 133 describes the minimum level of effluent quality attainable by secondary treatment, for BOD and TSS, as:

- The 30-day average shall not exceed 30 mg/L, and
- The 7-day average shall not exceed 45 mg/L.

Hill Canyon WWTP provides tertiary treatment. As such, the BOD and TSS limits in the permit are more stringent than secondary treatment requirements and are based on Best Professional Judgment (BPJ). The Facility achieves solids removals that are better than secondary-treated wastewater by filtering the effluent.

The monthly average, the 7-day average, and the daily maximum limits cannot be removed because none of the anti-backsliding exceptions apply. Those limits were all included in the previous permit (Order R4-2003-0083 (as revised by Order No. R4-2004-0121)) and the Hill Canyon WWTP has been able to meet both limits (monthly average and the daily maximum), for both BOD and TSS.

In addition to having mass-based and concentration-based effluent limitations for BOD and TSS, the Hill Canyon WWTP also has a percent removal requirement for these two constituents. In accordance with 40 CFR sections 133.102(a)(3) and 133.102(b)(3), the 30-day average percent removal shall not be less than 85 percent. Percent removal is defined as a percentage expression of the removal efficiency across a treatment plant for a given pollutant parameter, as determined from the 30-day average values of the raw wastewater influent pollutant concentrations to the Facility and the 30-day average values of the effluent pollutant concentrations for a given time period.

ii. **pH**

The hydrogen ion activity of water (pH) is measured on a logarithmic scale, ranging from 0 to 14. While the pH of “pure” water at 25°C is 7.0, the pH of natural waters is usually slightly basic due to the solubility of carbon dioxide from the atmosphere. Minor changes from natural conditions can harm aquatic life. In accordance with 40 CFR § 133.102(c), the effluent values for pH shall be maintained within the limits of 6.0 to 9.0 unless the POTW demonstrates that (1) inorganic chemicals are not added to the waste stream as part of the treatment process; and (2) contributions from industrial sources do not cause the pH of the effluent to be less than 6.0 or greater than 9.0. The effluent limitation for pH in this permit requiring that the wastes discharged shall at all times be within the range of 6.5 to 8.5 is taken from the Basin Plan (page 3-15) which reads “the pH of inland surface waters shall not be depressed below 6.5 or raised above 8.5 as a result of waste discharge.”

iii. **Settleable solids**

Excessive deposition of sediments can destroy spawning habitat, blanket benthic (bottom dwelling) organisms, and abrade the gills of larval fish. The limits for settleable solids are based on the Basin Plan (page 3-16) narrative, “Waters shall not contain suspended or settleable material in concentrations that cause nuisance or adversely affect beneficial uses.” The numeric limits are empirically based on results obtained from the settleable solids 1-hour test, using an Imhoff cone.

It is impracticable to use a 7-day average limitation, because short-term spikes of settleable solid levels that would be permissible under a 7-day average scheme would not be adequately protective of all beneficial uses. The monthly average and the daily maximum limits cannot be removed because none of the anti-backsliding exceptions apply. The monthly average and daily maximum limits were both included in the previous permit (Order R4-2003-0083 (as revised by Order No. R4-2004-0121)) and the Hill Canyon WWTP has been able to meet both limits.

iv. **Oil and grease**

Oil and grease are not readily soluble in water and form a film on the water surface. Oily films can coat birds and aquatic organisms, impacting respiration and thermal regulation, and causing death. Oil and grease can also cause nuisance conditions (odors and taste), are aesthetically

unpleasant, and can restrict a wide variety of beneficial uses. The limits for oil and grease are based on the Basin Plan (page 3-11) narrative, "Waters shall not contain oils, greases, waxes, or other materials in concentrations that result in a visible film or coating on the surface of the water or on objects in the water, that cause nuisance, or that otherwise adversely affect beneficial uses."

The numeric limits are empirically based on concentrations at which an oily sheen becomes visible in water. It is impracticable to use a 7-day average limitation, because spikes that occur under a 7-day average scheme could cause a visible oil sheen. A 7-day average scheme would not be sufficiently protective of beneficial uses. The monthly average and the daily maximum limits cannot be removed because none of the anti-backsliding exceptions apply. Both limits were included in the previous permit (Order No. R4-2003-0083 (as revised by Order No. R4-2004-0121)) and the Hill Canyon WWTP has been able to meet both limits.

v. **Residual Chlorine**

Disinfection of wastewaters with chlorine produces a chlorine residual. Chlorine and its reaction products are toxic to aquatic life. The limit for residual chlorine is based on the Basin Plan (page 3-9) narrative, "Chlorine residual shall not be present in surface water discharges at concentrations that exceed 0.1 mg/L and shall not persist in receiving waters at any concentration that causes impairment of beneficial uses."

It is impracticable to use a 7-day average or a 30-day average limitation, because it is not as protective as of beneficial uses as a daily maximum limitation is. Chlorine is very toxic to aquatic life and short term exposures of chlorine may cause fish kills.

vi. **Total Dissolved Solids (TDS), Sulfate, and Boron**

During wet weather, the limits for TDS, sulfate, and boron are based on the water quality objectives found in Basin Plan Table 3-8 (page 3-12) for the Calleguas Creek watershed (above Potrero Road) which are: TDS = 850 mg/L, Sulfate = 250 mg/L, and Boron = 1.0 mg/L.

During dry weather, the limits for TDS and sulfate are based on the WLAs contained in the *Calleguas Creek Salts TMDL*, Resolution No. R4-2007-016, *Amendment to the Water Quality Control Plant – Los Angeles Region to Incorporate the Total Maximum Daily Load for Boron, Chloride, Sulfate, and TDS (Salts) in the Calleguas Creek Watershed*, adopted by the Regional Water Board on October 4, 2007. This Resolution was approved by the State Water Board, Office of Administrative Law, and USEPA on May 20, 2008, November 6, 2008, and December 2, 2008, respectively. This TMDL became effective on December 2, 2008.

i. **Chloride**

The WQO for chloride in the Basin Plan Table 3-8 (page 3-12), for Calleguas Creek Watershed (above Potrero Road) is 150 mg/L.

On January 27, 1997, the Regional Water Board adopted Resolution No. 97-02, Amendment to the Basin Plan to incorporate a Policy for Addressing Levels of Chloride in Discharges of Wastewaters. It was approved by the State Water Board (SWRCB Resolution 97-94); approved by the Office of Administrative Law (OAL) on January 8, 1998. Resolution No. 97-02 served to revise the chloride water quality objective in Calleguas Creek and other surface waters.

On April 13, 1998, the Regional Water Board adopted Order No. 98-027, which amended Order No.96-044 for Hill Canyon WWTP's to include an interim chloride daily maximum effluent limit of 190 mg/L. This interim limit expired on January 9, 2001.

On December 7, 2000, the Regional Water Board adopted Resolution No. 2000-22, to extend the Interim Chloride Limits for Discharges to Calleguas Creek until March 31, 2001.

On March 22, 2002, USEPA Region 9 established the Calleguas Creek Total Maximum Daily Load for chloride which used the 150 mg/L objective in the Basin Plan to establish a waste load allocation of 2,300 lbs/day for the Hill Canyon WWTP during normal conditions, and a waste load allocation of 2,200 lbs/day for the Hill Canyon WWTP during drought conditions.

On August 14, 2002 the City of Simi Valley (Simi Valley WQCF), Thousand Oaks (Hill Canyon WWTP), City of Thousand Oaks (Hill Canyon WWTP), Camrosa Sanitation District (Camrosa WRP), Ventura County Water Works District No. 1 (Moorpark facility) and the Regional Water Board entered into a "Stipulation for Order Issuing Stay, with Conditions," which stayed the chloride final effluent limitation of 150 mg/L in NPDES Order No. 96-044. The State Water Board adopted WQO 2002-0017, which approved the August 14, 2002 stipulation.

On June 5, 2003, the NPDES permits for the City of Simi Valley (Simi Valley WQCF), Thousand Oaks (Hill Canyon WWTP), and the City of Thousand Oaks (Hill Canyon WWTP) were renewed, thereby rescinding the 1996 NPDES Orders, except for enforcement purposes. The Dischargers petitioned the revised NPDES Orders to the State Water Board, requested an extension of the chloride stay, and asked that the petitions be held in abeyance.

On October 10, 2003, the City of Simi Valley (Simi Valley WQCF), Thousand Oaks (Hill Canyon WWTP), City of Thousand Oaks (Hill Canyon WWTP), and the Regional Water Board entered into a "Stipulation for Further Order Issuing Stay, with Conditions," which stayed the chloride final effluent limitations in the NPDES permits issued in 2003. The State Water Board adopted WQO 2003-0019, which approved the October 10, 2003, stipulation and held the petitions in abeyance for three years (until November 19, 2006).

On September 28, 2006, the State Water Board granted an extension of the abeyance until July 15, 2008, when the petition would be dismissed without prejudice. The State Water Board, however, has continued granting extensions to the abeyance.

On October 4, 2007, the Regional Water Board adopted the *Calleguas Creek Salts TMDL*, Resolution No. R4-2007-016, *Amendment to the Water Quality Control Plant – Los Angeles Region to Incorporate the Total Maximum Daily Load for Boron, Chloride, Sulfate, and TDS (Salts) in the Calleguas Creek Watershed*. This Resolution was approved by the State Water Board, Office of

Administrative Law, and USEPA on May 20, 2008, November 6, 2008, and December 2, 2008, respectively. This TMDL became effective on December 2, 2008. The Salts TMDL established interim and final WLAs for chloride during dry weather. During wet weather, the chloride effluent limit is based on the water quality objective found in Basin Plan Table 3-8 (page 3-12) for the Calleguas Creek watershed (above Potrero Road) which is 150 mg/L. During dry weather, the effluent limit for chloride is based on the WLAs contained in the Salts TMDL.

viii. **Iron**

The previous Order had an effluent limitation of 300 mg/L for iron, which was based on the USEPA document, Quality Criteria for Water 1986 [EPA 440/5-86-001, May 1, 1986], also referred to as the Gold Book, for the protection of GWR beneficial use. 300 µg/L was also the secondary MCL for iron. Since the discharge did not have reasonable potential to cause to contribute to an exceedance, a limit for iron, was removed. This is consistent with the Antibacksliding provisions, because new monitoring information was used to run an updated reasonable potential analysis.

ix. **Methylene Blue Activated Substances (MBAS)**

The existing permit effluent limitation of 0.5 mg/l for MBAS was developed based on the Basin Plan incorporation of Title 22, Drinking Water Standards, by reference, to protect the surface water groundwater recharge (GWR) and the groundwater MUN beneficial uses. Given the nature of the Facility which accepts domestic wastewater into the sewer system and treatment plant, and the characteristics of the wastes discharged, the discharge has reasonable potential to exceed both the numeric MBAS WQO and the narrative WQO for the prohibition of floating material such as foams and scums. The discharge has tier 3 Reasonable Potential (RP), therefore an effluent limitation is required.

x. **Total Inorganic Nitrogen (NO₂ + NO₃ as N)**

Total inorganic nitrogen is the sum of Nitrate-nitrogen and Nitrite-nitrogen. High nitrate levels in drinking water can cause health problems in humans. Infants are particularly sensitive and can develop methemoglobinemia (blue-baby syndrome). Nitrogen is also considered a nutrient. Excessive amounts of nutrients can lead to other water quality impairments.

(a) **Algae**

Excessive growth of algae and/or other aquatic plants can degrade water quality. Algal blooms sometimes occur naturally, but they are often the result of excess nutrients (i.e., nitrogen, phosphorus) from waste discharges or nonpoint sources. These algal blooms can lead to problems with tastes, odors, color, and increased turbidity and can depress the dissolved oxygen content of the water, leading to fish kills. Floating algal scum and algal mats are also an aesthetically unpleasant nuisance.

The WQO for biostimulatory substances are based on Basin Plan (page 3-8) narrative, "Waters shall not contain biostimulatory substances in concentrations that promote aquatic growth to the extent that such growth causes nuisance or adversely affects beneficial uses," and other relevant information to arrive at a mass based-limit intended to be protective of the beneficial uses, pursuant to 40

CFR § 122.44(d). Total inorganic nitrogen will be the indicator parameter intended to control algae, pursuant to 40 CFR § 122.44(d)(1)(vi)(C).

(b). Concentration-based limit

Total inorganic nitrogen ($\text{NO}_2\text{-N} + \text{NO}_3\text{-N}$) effluent limitation of 10 mg/L is based on Basin Plan Table 3-8 (page 3-12), for Calleguas Creek Watershed above Potrero Road. However, the Nitrogen Compound TMDL for this Watershed has been in effect since July 16, 2003. Therefore, total inorganic nitrogen effluent limitation of 9 mg/L, which is based on the Nitrogen Compounds TMDL, will apply in this permit.

(c). Mass-based limit

Since the Nitrogen Compounds TMDL does not specify any mass-based WLA for nitrate plus nitrite as nitrogen, mass bases limits are not included for $\text{NO}_2\text{-N} + \text{NO}_3\text{-N}$.

xi. Nitrite as Nitrogen and Nitrate as Nitrogen

The effluent limit for nitrite as nitrogen ($\text{NO}_2\text{-N}$) of 0.9 mg/L is based on the Calleguas Creek Watershed Nutrient TMDL Waste Load Allocation which was assigned to the Hill Canyon WWTP. The effluent limit for nitrate as nitrogen ($\text{NO}_3\text{-N}$) of 9 mg/L is based on the Calleguas Creek Watershed Nutrient TMDL Waste Load Allocation which was assigned to the Hill Canyon WWTP. Since the TMDL does not specify any mass-based WLA for nitrate as nitrogen or nitrite as nitrogen, mass bases limits are not included for either of the two constituents.

xii. Total ammonia

Ammonia is a pollutant routinely found in the wastewater effluent of POTWs, in landfill-leachate, as well as in run-off from agricultural fields where commercial fertilizers and animal manure are applied. Ammonia exists in two forms – un-ionized ammonia (NH_3) and the ammonium ion (NH_4^+). They are both toxic, but the neutral, un-ionized ammonia species (NH_3) is much more toxic, because it is able to diffuse across the epithelial membranes of aquatic organisms much more readily than the charged ammonium ion. The form of ammonia is primarily a function of pH, but it is also affected by temperature and other factors. Additional impacts can also occur as the oxidation of ammonia lowers the dissolved oxygen content of the water, further stressing aquatic organisms. Oxidation of ammonia to nitrate may lead to groundwater impacts in areas of recharge. There is groundwater recharge in these reaches. Ammonia also combines with chlorine (often both are present in POTW treated effluent discharges) to form chloramines – persistent toxic compounds that extend the effects of ammonia and chlorine downstream.

On October 24, 2002, the Regional Water Board adopted Resolution No. 02-017, *Amendment to the Water Quality Control Plant for the Los Angeles Region to Include a TMDL for Nitrogen Compounds and Related Effects in Calleguas Creek*. This Resolution was approved by the State Water Resources Control Board, Office of Administrative Law, and USEPA on March 19, 2003, June 5, 2003, and June 20, 2003, respectively.

On September 11, 2008, the Regional Water Board adopted Resolution No. R4-2008-009, *Amendment to the Water Quality Control Plan for the Los Angeles Region through revision of the Waste Load Allocation for the Calleguas Creek Watershed Nitrogen Compounds and Related Effects Total Maximum Daily Load (revised Nitrogen Compounds TMDL)*. This Basin Plan amendment corrects the mass based daily WLAs for ammonia to be used based upon MDEL, and updates the WLAs to be consistent with the current practice of recognizing that the flow is variable. The mass based WLAs for ammonia are corrected to be based on the maximum daily effluent limit, MDEL and the actual POTW effluent flow rate at the time the monitoring is conducted. This Order includes effluent limitations for nitrogen compounds established by the revised *Nitrogen Compounds TMDL* which became effective on October 15, 2009. *Calleguas Creek Nitrogen Compounds TMDL* has ammonia nitrogen waste load allocations of 5.6 mg/L and 3.1 mg/L as maximum daily and average monthly effluent limitation, respectively. These waste load allocations will apply as end-of-pipe effluent limitations to the Hill Canyon WWTP.

xiii. **Coliform**

Total and fecal coliform bacteria are used to indicate the likelihood of pathogenic bacteria in surface waters. Given the nature of the Facility, a wastewater treatment plant, pathogens are likely to be present in the effluent in cases where the disinfection process is not operating adequately. As such, the permit contains the following filtration and disinfection TBELs for coliform:

(1). Effluent Limitations:

- The 7-day median number of total coliform bacteria at some point at the end of the UV channel, during normal operation of the UV channel, and at the end of the chlorine contact chamber, when backup method is used, must not exceed a Most Probable Number (MPN) or Colony Forming Unit (CFU) of 2.2 per 100 milliliters,
- the number of total coliform bacteria must not exceed an MPN or CFU of 23 per 100 milliliters in more than one sample within any 30-day period; and
- No sample shall exceed an MPN of CFU of 240 total coliform bacteria per 100 milliliters.

These disinfection-based effluent limitations for coliform are for human health protection and are consistent with requirements established by the California Department of Public Health. These limits for coliform must be met at the point of the treatment train immediately following disinfection, as a measure of the effectiveness of the disinfection process.

(2). The following Receiving Water Limitations shall not be exceeded as a result of wastes discharged:

- Geometric Mean Limitations
 - E.coli density shall not exceed 126/100 mL.

- Single Sample Limitations
 - E.coli density shall not exceed 235/100 mL.

These receiving water limitations are based on Resolution No. R10-005, *Amendment to the Water Quality Control Plan for the Los Angeles Region to Update the Bacteria Objectives for Freshwaters Designated for Water Contact Recreation by Removing the Fecal Coliform Objective*, adopted by the Regional Water Board on July 8, 2010, and became effective on December 5, 2011.

xiv. **Temperature**

USEPA document, *Quality Criteria for Water 1986* [EPA 440/5-86-001, May 1, 1986], also referred to as the *Gold Book*, discusses temperature and its effects on beneficial uses, such as recreation and aquatic life.

- The Federal Water Pollution Control Administration in 1967 called temperature “a catalyst, a depressant, an activator, a restrictor, a stimulator, a controller, a killer, and one of the most important water quality characteristics to life in water.” The suitability of water for total body immersion is greatly affected by temperature. Depending on the amount of activity by the swimmer, comfortable temperatures range from 20°C to 30°C (68 °F to 86 °F).
- Temperature also affects the self-purification phenomenon in water bodies and therefore the aesthetic and sanitary qualities that exist. Increased temperatures accelerate the biodegradation of organic material both in the overlying water and in bottom deposits which makes increased demands on the dissolved oxygen resources of a given system. The typical situation is exacerbated by the fact that oxygen becomes less soluble as water temperature increases. Thus, greater demands are exerted on an increasingly scarce resource which may lead to total oxygen depletion and obnoxious septic conditions. Increased temperature may increase the odor of water because of the increased volatility of odor-causing compounds. Odor problems associated with plankton may also be aggravated.
- Temperature changes in water bodies can alter the existing aquatic community. Coutant (1972) has reviewed the effects of temperature on aquatic life reproduction and development. Reproductive elements are noted as perhaps the most thermally restricted of all life phases assuming other factors are at or near optimum levels. Natural short-term temperature fluctuations appear to cause reduced reproduction of fish and invertebrates.

The Basin Plan lists temperature requirements for the receiving waters. Based on the requirements of the Basin Plan and a white paper developed by Regional Water Board staff entitled *Temperature and Dissolved Oxygen Impacts on Biota in Tidal Estuaries and Enclosed Bays in the Los Angeles*

Region, a maximum effluent temperature limitation of 86°F is included in the Order. The white paper evaluated the optimum temperatures for steelhead, topsmelt, ghost shrimp, brown rock crab, jackknife clam, and blue mussel. The new temperature effluent limitation is reflective of new information available that indicates that the 100°F temperature which was formerly used in permits was not protective of aquatic organisms. A survey was completed for several kinds of fish and the 86°F temperature was found to be protective. It is impracticable to use a 7-day average or a 30-day average limitation for temperature, because it is not as protective as of beneficial uses as a daily maximum limitation is. A daily maximum limit is necessary to protect aquatic life and is consistent with the fishable/swimmable goals of the CWA.

Section IV.A.3.b. of the Order contains the following effluent limitation for temperature:

“The temperature of wastes discharged shall not exceed 86°F except as a result of external ambient temperature.”

The above effluent limitation for temperature has been quoted in all recent NPDES permits adopted by this Regional Water Board. Section V.A.1. of the Order explains how compliance with the receiving water temperature limitation will be determined.

xv. **Turbidity**

Turbidity is an expression of the optical property that causes light to be scattered in water due to particulate matter such as clay, silt, organic matter, and microscopic organisms. Turbidity can result in a variety of water quality impairments. The effluent limitation for turbidity which reads, “For the protection of the water contact recreation beneficial use, the wastes discharged to water courses shall have received adequate treatment, so that the turbidity of the wastewater does not exceed: (a) a daily average of 2 Nephelometric turbidity units (NTU); (b) 5 NTU more than 5 percent of the time (72 minutes) during any 24 hour period; and (c) 10 NTU at any time” is based on the Basin Plan (page 3-17) and section 60301.320 of Title 22, chapter 3, “Filtered Wastewater” of the CCR.

xvi. **Radioactivity**

Radioactive substances are generally present in natural waters in extremely low concentrations. Mining or industrial activities increase the amount of radioactive substances in waters to levels that are harmful to aquatic life, wildlife, or humans. Section 301(f) of the CWA contains the following statement with respect to effluent limitations for radioactive substances: “Notwithstanding any of other provisions of this Act it shall be unlawful to discharge any radiological, chemical, or biological warfare agent, any high-level radioactive waste, or any medical waste, into the navigable waters.” Chapter 4.4 of the CWC contains a similar prohibition under section 13375, which reads as follows: “The discharge of any radiological, chemical, or biological warfare agent into the waters of the state is hereby prohibited.” However, rather than an absolute prohibition on radioactive substances, Regional Water Board staff have set the following effluent limit for

radioactivity: "Radioactivity of the wastes discharged shall not exceed the limits specified in Title 22, Chapter 15, Article 5, sections 64442 and 64443, of the CCR, or subsequent revisions." The limit is based on the Basin Plan incorporation of Title 22, CCR, *Drinking Water Standards*, by reference, to protect beneficial use. Therefore, the accompanying Order will retain the limit for radioactivity.

c. **CTR and SIP**

The CTR and the SIP specify numeric objectives for toxic substances and the procedures whereby these objectives are to be implemented. The procedures include those used to conduct reasonable potential analysis (RPA) to determine the need for effluent limitations for priority pollutants. The TSD also specifies procedures for conducting reasonable potential analyses.

3. **Determining the Need for WQBELS**

The Regional Water Board developed WQBELS for ammonia-nitrogen, nitrite-nitrogen, nitrate-nitrogen, nitrite plus nitrite as nitrogen, TDS, sulfate, chloride, boron, copper, nickel, mercury, chlordane, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, dieldrin, PCBs, toxaphene, chlorpyrifos, diazinon, and chronic toxicity based upon TMDLs. The effluent limitations for these pollutants were established regardless of whether or not there is reasonable potential for the pollutants to be present in the discharge at levels that would cause or contribute to a violation of water quality standards. The Regional Water Board developed water quality-based effluent limitations for these pollutants pursuant to 40 CFR § 122.44(d)(1)(vii), which does not require or contemplate a reasonable potential analysis. Similarly, the SIP at Section 1.3 recognizes that reasonable potential analysis is not appropriate if a TMDL has been developed.

In accordance with Section 1.3 of the SIP, the Regional Water Board conducted a reasonable potential analysis for each priority pollutant with an applicable criterion or objective to determine if a WQBEL is required in the permit. The Regional Water Board analyzed effluent data to determine if a pollutant in a discharge has a reasonable potential to cause or contribute to an excursion above a state water quality standard. For all parameters that demonstrate reasonable potential, numeric WQBELS are required. The RPA considers water quality criteria from the CTR and NTR, and when applicable, water quality objectives specified in the Basin Plan. To conduct the RPA, the Regional Water Board staff identified the maximum effluent concentration (MEC) and maximum background concentration in the receiving water for each constituent, based on data provided by the Permittee. The monitoring data cover the period from September 2007 to December 1, 2013.

Section 1.3 of the SIP provides the procedures for determining reasonable potential to exceed applicable water quality criteria and objectives. The SIP specifies three triggers to complete a RPA:

Trigger 1 – If the MEC is greater than or equal to the CTR water quality criteria or applicable objective (C), a limitation is needed.

Trigger 2 – If background water quality (B) > C and the pollutant is detected in the effluent, a limitation is needed.

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Trigger 3 – If other related information such as CWA 303(d) listing for a pollutant, discharge type, compliance history, then best professional judgment is used to determine that a limit is needed.

Sufficient effluent and ambient data are needed to conduct a complete RPA. If data are not sufficient, the Permittee will be required to gather the appropriate data for the Regional Water Board to conduct the RPA. Upon review of the data, and if the Regional Water Board determines that WQBELs are needed to protect the beneficial uses, the permit will be reopened for appropriate modification.

The RPA was performed for the priority pollutants regulated in the CTR for which data are available. Based on the RPA, pollutants that demonstrate reasonable potential are copper, mercury, nickel, chlordane, chlorpyrifos, diazinon, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, dieldrin, PCBs, and toxaphene because TMDLs are adopted for these constituents and final WLAs are assigned to the Hill Canyon WWTP.

Beryllium, cyanide, and bis(2-ethylhexyl)phthalate show reasonable potential because MEC is greater than C. The following Table summarizes results from RPA.

Table F-7. Summary of Reasonable Potential Analysis

CTR No.	Constituent	Applicable Water Quality Criteria (C) µg/L	Max Effluent Conc. (MEC) µg/L	Maximum Detected Receiving Water Conc.(B) µg/L	RPA Result - Need Limitation?	Reason
1	Antimony	6	0.7	<0.5	No	MEC<C, B<C
2	Arsenic	10	3.5	3.2	No	MEC>C
3	Beryllium	4	9.5	<0.01	Yes	MEC>C
4	Cadmium	5	0.5	ND	No	MEC<C, B<C
5a	Chromium III	600	0.6	ND	No	MEC<C, B<C
5b	Chromium VI	50	0.06	0.07	No	MEC<C, B<C
6	Copper	TMDL	8.5	5.5	YES	TMDL WLA
7	Lead	16	<0.2	0.3	No	MEC<C, B<C
8	Mercury	0.051	<0.05	ND	No	MEC<C, B<C
9	Nickel	TMDL	3.4	4.4	YES	TMDL WLA
10	Selenium	5	1.1	3.4	No	MEC<C, B<C
11	Silver	36	<0.2	ND	No	MEC<C, B<C
12	Thallium	2	<0.2	ND	No	MEC<C, B<C
13	Zinc	248	50	8.6	No	MEC<C, B<C
14	Cyanide	5.2	5.7	<5	YES	MEC>C
15	Asbestos	7x10 ⁶ fibers/L	No sample	No sample	No	N/A
16	2,3,7,8-TCDD (Dioxin)	0.014 pg/L	ND	1.38479	No	MEC<C, B<C
17	Acrolein	780	<5	<5	No	MEC<C, B<C
18	Acrylonitrile	0.66	<2	<2	No	MEC<C, B<C
19	Benzene	1	<1	<1	No	MEC<C, B<C
20	Bromoform	360	ND	ND	No	MEC<C, B<C
21	Carbon Tetrachloride	0.5	<0.5	<1	No	MEC<C, B<C
22	Chlorobenzene	21,000	<0.05	<0.05	No	MEC<C, B<C
23	Dibromochloromethane	34	4	2.69	No	MEC<C, B<C
24	Chloroethane	No criteria	<0.5	<2	No	No criteria
25	2-chloroethyl vinyl ether	No criteria	<0.3	<0.3	No	No criteria

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CTR No.	Constituent	Applicable Water Quality Criteria (C) µg/L	Max Effluent Conc. (MEC) µg/L	Maximum Detected Receiving Water Conc.(B) µg/L	RPA Result - Need Limitation?	Reason
26	Chloroform	No criteria	9.6	8.26	No	No criteria
27	Dichlorobromomethane	46	32.2	3.54	No	MEC<C, B<C
28	1,1-dichloroethane	No criteria	<0.5	<0.5	No	No criteria
29	1,2-dichloroethane	99	<0.5	<0.5	No	MEC<C, B<C
30	1,1-dichloroethylene	3.2	<0.5	<0.5	No	MEC<C, B<C
31	1,2-dichloropropane	5	<0.5	<0.5	No	MEC<C, B<C
32	1,3-dichloropropylene	0.5	<0.5	<5	No	MEC<C, B<C
33	Ethylbenzene	29,000	<0.5	<0.5	No	MEC<C, B<C
34	Methyl bromide	4,000	<0.5	<0.5	No	MEC<C, B<C
35	Methyl chloride	No criteria	<0.5	<0.5	No	No criteria
36	Methylene chloride	1,600	<1	<0.5	No	MEC<C, B<C
37	1,1,2,2-tetrachloroethane	1	<1	<0.5	No	MEC<C, B<C
38	Tetrachloroethylene	5	2.3	ND	No	MEC<C, B<C
39	Toluene	150	0.95	<0.5	No	MEC<C, B<C
40	Trans 1,2-Dichloroethylene	10	<0.5	<0.5	No	MEC<C, B<C
41	1,1,1-Trichloroethane	200	<0.5	<0.5	No	MEC<C, B<C
42	1,1,2-Trichloroethane	5	<0.5	<0.5	No	MEC<C, B<C
43	Trichloroethylene	5	<0.5	<0.5	No	MEC<C, B<C
44	Vinyl Chloride	525	<0.5	<0.5	No	MEC<C, B<C
45	2-chlorophenol	400	<1	<1	No	MEC<C, B<C
46	2,4-dichlorophenol	790	<1	<1	No	MEC<C, B<C
47	2,4-dimethylphenol	2,300	<1	<1	No	MEC<C, B<C
48	4,6-dinitro-o-resol(aka 2-methyl-4,6-Dinitrophenol)	765	<0.94	<1	No	MEC<C, B<C
49	2,4-dinitrophenol	14,000	<1	<4.7	No	MEC<C, B<C
50	2-nitrophenol	No criteria	<1	<1	No	No criteria
51	4-nitrophenol	No criteria	<1.9	<1	No	No criteria
52	3-Methyl-4-Chlorophenol (aka P-chloro-m-resol)	No criteria	<1	<1	No	No criteria
53	Pentachlorophenol	8.2	<1	<1	No	MEC<C, B<C
54	Phenol	4,600,000	20	<0.94	No	MEC<C, B<C
55	2,4,6-trichlorophenol	6.5	<1	<0.94	No	MEC<C, B<C
56	Acenaphthene	2,700	<0.94	<0.94	No	MEC<C, B<C
57	Acenaphthylene	No criteria	<0.94	<0.94	No	No criteria
58	Anthracene	110,000	<0.94	<0.94	No	MEC<C, B<C
59	Benzidine	0.00054	<0.94	<0.94	No	MEC<C, B<C
60	Benzo(a)Anthracene	0.049	<0.94	<0.94	No	MEC<C, B<C
61	Benzo(a)Pyrene	0.049	<0.94	<0.94	No	MEC<C, B<C
62	Benzo(b)Fluoranthene	0.049	<0.94	<0.94	No	MEC<C, B<C
63	Benzo(ghi)Perylene	No criteria	<0.94	<0.94	No	No criteria
64	Benzo(k)Fluoranthene	0.049	<0.94	<0.94	No	MEC<C, B<C
65	Bis(2-Chloroethoxy)methane	No criteria	<0.94	<0.94	No	No criteria
66	Bis(2-Chloroethyl)Ether	1.4	<0.94	<0.94	No	MEC<C, B<C

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CTR No.	Constituent	Applicable Water Quality Criteria (C) µg/L	Max Effluent Conc. (MEC) µg/L	Maximum Detected Receiving Water Conc.(B) µg/L	RPA Result - Need Limitation?	Reason
67	Bis(2-Chloroisopropyl) Ether	170,000	<0.94	<0.94	No	MEC<C, B<C
68	Bis(2-Ethylhexyl) Phthalate	4.0	20	19	YES	MEC>C
69	4-Bromophenyl Phenyl Ether	No criteria	<1	<0.94	No	No criteria
70	Butylbenzyl Phthalate	5,200	<1	<1	No	MEC<C, B<C
71	2-Chloronaphthalene	4,300	<1	<0.94	No	MEC<C, B<C
72	4-Chlorophenyl Phenyl Ether	No criteria	<0.94	<0.94	No	No criteria
73	Chrysene	0.049	<0.94	<0.94	No	MEC<C, B<C
74	Dibenzo(a,h) Anthracene	0.049	<0.94	<0.94	No	MEC<C, B<C
75	1,2-Dichlorobenzene	17,000	<0.94	<0.5	No	MEC<C, B<C
76	1,3-Dichlorobenzene	2,600	<0.94	<0.5	No	MEC<C, B<C
77	1,4-Dichlorobenzene	2,600	<0.94	<0.5	No	MEC<C, B<C
78	3-3'-Dichlorobenzidine	0.077	<0.94	<0.94	No	MEC<C, B<C
79	Diethyl Phthalate	120,000	<0.94	<0.94	No	MEC<C, B<C
80	Dimethyl Phthalate	2,900,000	<0.94	<0.94	No	MEC<C, B<C
81	Di-n-Butyl Phthalate	12,000	ND	2.2	No	MEC<C, B<C
82	2-4-Dinitrotoluene	9.1	<0.94	<0.94	No	MEC<C, B<C
83	2-6-Dinitrotoluene	No criteria	<0.94	<0.94	No	No criteria
84	Di-n-Octyl Phthalate	No criteria	<0.94	<0.94	No	No criteria
85	1,2-Diphenylhydrazine	0.54	<0.94	<1	No	MEC<C, B<C
86	Fluoranthene	370	<0.94	<0.94	No	MEC<C, B<C
87	Fluorene	14,000	<0.94	<0.94	No	MEC<C, B<C
88	Hexachlorobenzene	0.00077	<0.94	<0.94	No	MEC<C, B<C
89	Hexachlorobutadiene	50	<0.94	<0.94	No	MEC<C, B<C
90	Hexachlorocyclopentadiene	17,000	<0.94	<0.94	No	MEC<C, B<C
91	Hexachloroethane	8.9	<0.94	<0.94	No	MEC<C, B<C
92	Indeno(1,2,3-cd)Pyrene	0.049	<0.94	<0.94	No	MEC<C, B<C
93	Isophorone	600	<0.94	<0.94	No	MEC<C, B<C
94	Naphthalene	No criteria	<0.94	<0.94	No	No criteria
95	Nitrobenzene	1,900	<0.94	<0.94	No	MEC<C, B<C
96	N-Nitrosodimethylamine	8.1	<1	<1	No	MEC<C, B<C
97	N-Nitrosodi-n-Propylamine	1.4	<0.94	<1	No	MEC<C, B<C
98	N-Nitrosodiphenylamine	16	<0.94	<1	No	MEC<C, B<C
99	Phenanthrene	No criteria	<0.94	<1	No	No criteria
100	Pyrene	11,000	<0.94	<1	No	MEC<C, B<C
101	1,2,4-Trichlorobenzene	No criteria	<0.94	<1	No	No criteria
102	Aldrin	0.00014	ND	ND	NO	MEC<C, B<C
103	Alpha-BHC	0.013	ND	ND	NO	MEC<C, B<C
104	Beta-BHC	0.046	ND	ND	No	MEC<C, B<C
105	Gamma-BHC (aka Lindane)	0.063	ND	ND	No	MEC<C, B<C

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CTR No.	Constituent	Applicable Water Quality Criteria (C) µg/L	Max Effluent Conc. (MEC) µg/L	Maximum Detected Receiving Water Conc.(B) µg/L	RPA Result - Need Limitation?	Reason
106	delta-BHC	No criteria	ND	ND	No	No criteria
107	Chlordane	0.00059	ND	ND	YES	TMDL WLA
108	4,4'-DDT	0.00059	ND	ND	YES	TMDL WLA
109	4,4'-DDE	0.00059	ND	ND	YES	TMDL WLA
110	4,4'-DDD	0.00084	ND	ND	YES	TMDL WLA
111	Dieldrin	0.00014	ND	ND	YES	TMDL WLA
112	Alpha-Endosulfan	0.056	ND	ND	No	MEC<C, B<C
113	Beta-Endosulfan	0.056	ND	ND	No	MEC<C, B<C
114	Endosulfan Sulfate	240	ND	ND	No	MEC<C, B<C
115	Endrin	0.036	ND	ND	No	MEC<C, B<C
116	Endrin Aldehyde	0.81	ND	ND	No	MEC<C, B<C
117	Heptachlor	0.00021	ND	ND	No	MEC<C, B<C
118	Heptachlor Epoxide	0.00011	ND	ND	No	MEC<C, B<C
119	PCB 1016	0.00017	<0.5	<0.5	YES	TMDL WLA
120	PCB 1221	0.00017	<0.5	<0.5	YES	TMDL WLA
121	PCB 1232	0.00017	<0.5	<0.5	YES	TMDL WLA
122	PCB 1242	0.00017	<0.5	<0.5	YES	TMDL WLA
123	PCB 1248	0.00017	<0.5	<0.5	YES	TMDL WLA
124	PCB 1254	0.00017	<0.5	<0.5	YES	TMDL WLA
125	PCB 1260	0.00017	<0.5	<0.5	YES	TMDL WLA
126	Toxaphene	0.00075	<0.3	<0.47	YES	TMDL WLA
	Chlorpyrifos		ND		YES	TMDL WLA
	Diazinon		ND		YES	TMDL WLA
	Iron	300	92	46	No	MEC<C, B<C

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4. WQBEL Calculations

a. **Calculation Options.** Once RPA has been conducted using either the TSD or the SIP methodologies, WQBELs are calculated. Alternative procedures for calculating WQBELs include:

- i. Use WLA from applicable TMDL
- ii. Use a steady-state model to derive MDELs and AMELs.
- iii. Where sufficient data exist, use a dynamic model which has been approved by the State Water Board.

b. **TMDL WLA-based limitations**

i. **Calleguas Creek Watershed Metals TMDL.**

• **Copper:**

- Concentration-based final WLAs were established for the Hill Canyon WWTP in the *Metals TMDL*, expressed in terms of a footnote that indicates that the concentration-based final limits will be included in the permits in accordance with NPDES guidance and requirements, but were not calculated as part of the TMDL. WLA-based limits were calculated using the freshwater CTR

criteria, consistent with the *Final Metals and Selenium TMDL Technical Report (Technical Report)*, dated May 2006. This final effluent limitation applies on the effective date of this Order. Effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitations, so a TSO is not needed.

- A copper mass-based final WLA was established for the Hill Canyon WWTP in the *Metals TMDL*, in terms of the following formula: $0.12 * WER - 0.04$, for the protection of the lower reaches of Calleguas Creek. The WLA-based limit was calculated using the 3.69 copper WER approved by the Regional Water Board on November 9, 2006. Effluent data demonstrates that the Facility's discharge will not consistently be able to comply with the final mass WLA-based limitations. The Regional Water Board may establish interim effluent limitations in a separate Time Schedule Order.
- **Nickel:**
 - Concentration-based final WLAs were established for the Hill Canyon WWTP in the *Metals TMDL*, expressed in terms of a footnote which indicates that the concentration-based final limits will be included in the permits in accordance with NPDES guidance and requirements, but are not calculated as part of the TMDL. WLA-based limits were calculated using the freshwater CTR criteria, consistent with the *Final Metals and Selenium TMDL Technical Report (Technical Report)*, dated May 2006. This final effluent limitation applies on the effective date of this Order. Effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitations, so a TSO is not needed.
 - A 0.3 lbs/day mass-based nickel final WLA was established in the *Metals TMDL* for the Hill Canyon WWTP, for protection of the saltwater objective in the lower reach. The TMDL became effective on March 26, 2007. This final effluent limitation applies on the effective date of this Order. Effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitations, so a TSO is not needed.
- **Mercury:** A mercury mass-based WLA is established for the Hill Canyon WWTP in the *Metals TMDL*. The permit contains a final effluent limitation for mercury consistent with the final WLA. This final effluent limitation applies on the effective date of this Order. Effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitations, so a TSO is not needed.
- **Zinc:** Zinc allocations are not set because current information indicate that numeric targets for zinc are attained. The TMDL implementation plan includes a task to provide State Water Board data to support delisting of zinc. In addition, effluent data demonstrates that the Facility's discharge does not have reasonable potential to cause an exceedance of the applicable water quality objective

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- **Selenium:** Waste load allocations for selenium are not set for POTWs because POTWs do not discharge to reaches listed for selenium.

ii. **OC Pesticide TMDL.**

The *Organochlorine (OC) Pesticide, Polychlorinatedbiphenyls (PCBs), and Siltation TMDL* establishes final WLAs for Chlordane, Dieldrin, 4,4-DDD, 4,4-DDE, 4,4-DDT, PCBs, and Toxaphene. The permit contains final effluent limitations consistent with the final WLAs. This final effluent limitation applies on the effective date of this Order. Effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitations, so a TSO is not needed.

iii. **Toxicity TMDL**

The *Toxicity TMDL* establishes final WLAs for Chlorpyrifos and Diazinon. The permit contains final effluent limitations consistent with the final WLAs. The *Toxicity TMDL* also establishes a final WLA for Chronic Toxicity, based on the 1 TUc numeric target. The permit contains final effluent limitations consistent with the assumptions of the Toxicity TMDL and consistent with the implementation language which reads, "The toxicity WLAs will be implemented in accordance with USEPA, State Board and Regional Board resolutions, **guidance** (emphasis added) and policy at the time of permit issuance or renewal." The final effluent limitation will apply on the effective date of this Order, ~~since additional time for permit compliance, provided under the 2008 Compliance Schedule Policy, was not offered by the TMDL.~~ Effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitations, ~~so a TSO for chronic toxicity is not needed.~~

iv. **Nutrient TMDL**

The *Nitrogen Compounds and Related Effects (Nitrogen) TMDL* establishes final WLAs for Ammonia nitrogen, nitrate nitrogen, nitrite nitrogen, and nitrate plus nitrite as nitrogen. The permit contains final effluent limitations consistent with the final WLAs. The final effluent limitation will apply on the effective date of this Order, ~~since the compliance schedule authority under the Nutrient TMDL has expired.~~ Effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitations, ~~so a TSO is not needed.~~

- c. **SIP Calculation Procedure.** Section 1.4 of the SIP requires the step-by-step procedure to "adjust" or convert CTR numeric criteria into AMELs and MDELs, for toxics.

Step 3 of section 1.4 of the SIP (starting on page 6) lists the statistical equations that adjust CTR criteria for effluent variability.

Step 5 of section 1.4 of the SIP (starting on page 8) lists the statistical equations that adjust CTR criteria for averaging periods and exceedance frequencies of the criteria/objectives. This section also reads, "For this method only, maximum daily effluent limitations shall be used for publicly-owned treatment works (POTWs) in place of average weekly limitations."

The RPA was performed for the priority pollutants regulated in the CTR for which data are available. RPA results showed that there is no reasonable potential to exceed the criteria.

d. **Impracticability Analysis**

Federal NPDES regulations contained in 40 CFR § 122.45 continuous dischargers, states that all permit limitations, standards, and prohibitions, including those to achieve water quality standards, shall unless impracticable be stated as maximum daily and average monthly discharge limitations for all dischargers other than POTWs.

As stated by USEPA in its long standing guidance for developing WQBELs average alone limitations are not practical for limiting acute, chronic, and human health toxic effects.

For example, a POTW sampling for a toxicant to evaluate compliance with a 7-day average limitation could fully comply with this average limit, but still be discharging toxic effluent on one, two, three, or up to four of these seven days and not be meeting 1-hour average acute criteria or 4-day average chronic criteria. For these reason, USEPA recommends daily maximum and 30-day average limits for regulating toxics in all NPDES discharges. For the purposes of protecting the acute effects of discharges containing toxicants (CTR human health for the ingestion of fish), daily maximum limitations have been established in this NPDES permit for mercury because it is considered to be a carcinogen, endocrine disruptor, and is bioaccumulative.

A 7-day average alone would not protect one, two, three, or four days of discharging pollutants in excess of the acute and chronic criteria. Fish exposed to these endocrine disrupting chemicals will be passed on to the human consumer. Endocrine disrupters alter hormonal functions by several means. These substances can:

- mimic or partly mimic the sex steroid hormones estrogens and androgens (the male sex hormone) by binding to hormone receptors or influencing cell signaling pathways.
- block, prevent and alter hormonal binding to hormone receptors or influencing cell signaling pathways.
- alter production and breakdown of natural hormones.
- modify the making and function of hormone receptors.

- e. **Mass-based limits.** 40 CFR § 122.45(f)(1) requires that except under certain conditions, all permit limits, standards, or prohibitions be expressed in terms of mass units. 40 CFR § 122.45(f)(2) allows the permit writer, at its discretion, to express limits in additional units (e.g., concentration units). The regulations mandate that, where limits are expressed in more than one unit, the permittee must comply with both.

Generally, mass-based limits ensure that proper treatment, and not dilution, is employed to comply with the final effluent concentration limits. Concentration-based effluent limits, on the other hand, discourage the reduction in treatment

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efficiency during low-flow periods and require proper operation of the treatment units at all times. In the absence of concentration-based effluent limits, a permittee would be able to increase its effluent concentration (i.e., reduce its level of treatment) during low-flow periods and still meet its mass-based limits. To account for this, this permit includes mass and concentration limits for some constituents.

Table F-8. Summary of WQBELs for Discharge Point 005

Parameter	Units	Effluent Limitations				
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Min.	Instantaneous Max.
Ammonia Nitrogen ⁴	mg/L	3.1	--	5.6		
	lbs/day	--	--	5.1 x Q ⁵		
[Nitrate + Nitrite] (as N)	mg/L	9 ⁶	--	--		
Nitrate (as N)	mg/L	9 ⁶	--	--		
Nitrite (as N)	mg/L	0.9 ⁶	--	--		
Beryllium	µg/L	4	--	--		
	lbs/day ¹	0.246	--	--		
Copper	µg/L	28 ⁷	--	42 ⁷		
	lbs/day	--	--	0.4 ⁸		

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⁴ This limitation is derived from the final WLA for ammonia nitrogen, as set forth in the Calleguas Creek *Nitrogen Compounds and Related Effects TMDL*, established by the Regional Water Board on October 24, 2002. Final WLAs became operative on October 24, 2004. Effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitations, so a TSO for copper is not needed.

⁵ Q represents the POTW flow at the time the water quality measurement is collected (not to exceed 14 MGD) and a conversion factor to lbs/day based on the units of measure for the flow.

⁶ This limitation is derived from the final WLA for nitrate nitrogen, nitrite nitrogen, and nitrate plus nitrite nitrogen, as set forth in the Calleguas Creek *Nitrogen Compounds and Related Effects*. Effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitations, so a TSO for copper is not needed.

⁷ This limitation is derived from the final WLA, as set forth in the *Calleguas Creek Watershed Metals TMDL (Metals TMDL)*, established by the Regional Water Board on June 8, 2006. The TMDL became effective on March 26, 2007. The *Metals TMDL* contains concentration-based WLAs that are expressed in terms of a footnote, which indicates that the concentration-based final limits will be included in the permits in accordance with NPDES guidance and requirements, but are not calculated as part of the TMDL. WLA-based limits were calculated using the freshwater CTR criteria, consistent with the *Final Metals and Selenium TMDL Technical Report (Technical Report)*, dated May 2006. This final effluent limitation applies on the effective date of this Order. Effluent data demonstrates that the Facility's discharge is currently able to comply with the final freshwater criteria WLA-based limitations, so a TSO is not needed.

⁸ This limitation is derived from the mass-based final WLA, as set forth in the *Metals TMDL*, established by the Regional Water Board on June 8, 2006, for the protection of the lower reaches of Calleguas Creek. The TMDL became effective on March 26, 2007. The mass-based WLA is expressed in terms of a formula that incorporates a Water Effects Ratio (WER). The WLA-based limit was calculated using the 3.69 copper WER approved by the Regional Water Board on November 9, 2006.

Parameter	Units	Effluent Limitations				
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Min.	Instantaneous Max.
Nickel	µg/L	153 ⁹	--	231 ⁹		
	lbs/day	--	--	0.3 ¹⁰		
Mercury	lbs/month	0.022 ¹¹	--	--		
Cyanide	µg/L	4.2	--	8.5		
	lbs/day	0.49	--	0.99		
Bis(2-ethylhexyl) Phthalate	µg/L	4.0	--	--		
	lbs/day	0.24	--	--		
Chlordane	µg/L	0.00059 ¹²	--	0.0012 ¹²		
4,4-DDD	µg/L	0.00084 ¹²	--	0.0017 ¹²		
4,4-DDE	µg/L	0.00059 ¹²	--	0.0012 ¹²		
4,4-DDT	µg/L	0.00059 ¹²	--	0.0012 ¹²		
Dieldrin	µg/L	0.00014 ¹²	--	0.00028 ¹²		
PCBs	µg/L	0.00017 ¹²	--	0.00034 ¹²		
Toxaphene	µg/L	0.00016 ¹²	--	0.00033 ¹²		
Chlorpyrifos	µg/L	0.0133 ¹³	--	0.024 ¹³		
Diazinon	µg/L	0.1 ¹³	--	0.1 ¹³		

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⁹ This limitation is derived from the final WLA, as set forth in the *Metals TMDL*, established by the Regional Water Board on June 8, 2006. The TMDL became effective on March 26, 2007. The *Metals TMDL* contains concentration-based WLAs that are expressed in terms of a footnote, which indicates that the concentration-based final limits will be included in the permits in accordance with NPDES guidance and requirements, but are not calculated as part of the TMDL. WLA-based limits were calculated using the freshwater CTR criteria, consistent with the *Final Metals and Selenium TMDL Technical Report (Technical Report)*, dated May 2006. This final effluent limitation applies on the effective date of this Order. Effluent data demonstrates that the Facility's discharge is currently able to comply with the final freshwater criteria WLA-based limitations, so a TSO is not needed.

¹⁰ This mass-based effluent limitation is derived from the mass-based final WLA, as set forth in the *Calleguas Creek Watershed Metals TMDL*, established by the Regional Water Board on June 8, 2006, for the protection of the lower reaches of Calleguas Creek. The TMDL became effective on March 26, 2007. This final effluent limitation applies on the effective date of this Order. Effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitation, so a TSO is not needed.

¹¹ This limitation is derived from the final WLA, as set forth in the *Calleguas Creek Watershed Metals TMDL*, established by the Regional Water Board on June 8, 2006. This limitation is derived from the WLA for mercury, specified in pounds per month, as set forth in said TMDL. The TMDL became effective on March 26, 2007. This final effluent limitation applies on the effective date of this Order. Effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitation, so a TSO is not needed.

¹² This limitation is derived from the final WLA, as set forth in the *Calleguas Creek Watershed Organochlorine Pesticide, Polychlorinated Biphenyls (PCB), and Siltation TMDL*, established by the Regional Water Board on July 7, 2005. The limitation is derived from the final WLA as set forth in said TMDL. The TMDL became effective on March 24, 2006. This final effluent limitation applies on the effective date of this Order. Effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitation, so a TSO is not needed.

¹³ This limitation is derived from the final WLA as set forth in the *Calleguas Creek Watershed Toxicity TMDL*, established by the Regional Water Board on July 7, 2005. The TMDL became effective on March 24, 2006. Consistent with the TMDL, the final WLA-based limit became operative on March 23, 2008. This final effluent limitation applies on the effective date of this Order. Effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitation, so a TSO is not needed.

Parameter	Units	Effluent Limitations				
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Min.	Instantaneous Max.
Chronic Toxicity ^{14, 15}	Pass or Fail, %Effect	Pass ¹⁶	--	Pass or %Effect < 50		

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5. Whole Effluent Toxicity (WET)

Whole effluent toxicity (WET) testing protects the receiving water quality from the aggregate toxic effect of a mixture of pollutants in the effluent. An acute toxicity test is conducted over a short time period and measures mortality. A chronic toxicity test is conducted over a short or a longer period of time and may measure mortality, reproduction, and growth. A chemical at a low concentration can have chronic effects but no acute effects until it gets to the higher level.

The 2003 permit contained final effluent limitations for both acute toxicity and chronic toxicity. But the 2014 permit only contains final effluent limitations for chronic toxicity, since chronic toxicity is a more stringent requirement than acute toxicity. Removal of the numeric acute toxicity effluent limit from the 2003 permit does not constitute backsliding because the numeric chronic toxicity effluent limits protect the Basin Plan acute toxicity objective and chronic toxicity is the more stringent and sensitive requirement.

For this permit, chronic toxicity in the discharge is evaluated using USEPA's 2010 Test of Significant Toxicity (TST) hypothesis testing approach. Chronic toxicity limitations are expressed as "Pass" or "Fail" for the median monthly summary result and "Pass" or "Fail" and "% Effect" for the maximum daily single result. The chronic toxicity effluent limitations are as stringent as necessary to protect the narrative Basin Plan Water Quality Objective for chronic toxicity. Those limitations are also consistent with the chronic toxicity WLA of 1 TUC and the assumptions of the *Calleguas Creek Toxicity TMDL* which went into effect on March 24, 2006, and the implementation language which

¹⁴ The *Calleguas Creek Watershed Toxicity TMDL* includes a WLA of 1.0 TUC for toxicity, which is required to be implemented in accordance with USEPA, State Water Board, and Regional Water Board resolutions, guidance and policy at the time of permit issuance or renewal. The numeric WLA is protective of both the numeric acute toxicity and the narrative toxicity Basin Plan water quality objectives. Consistent with the Toxicity TMDL Implementation Plan, this toxicity WLA will be implemented using current USEPA guidance in *National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document* (EPA 833-R-10-003, June /2010) and EPA Regions 8, 9 and 10 Toxicity Training Tool (January 2010), <http://www2.epa.gov/region8/epa-regions-8-9-and-10-toxicity-training-tool-january-2010>.

¹⁵ "Pass" or "Fail" for Median Monthly Effluent Limitation (MMEL). "Pass" or "Fail" and "% Effect" for Maximum Daily Effluent Limitation (MDEL). The MMEL for chronic toxicity shall only apply when there is a discharge more than one day in a calendar month period. During such calendar months, exactly three independent toxicity tests are required when one toxicity test results in "Fail". The final effluent limitation will apply on the effective date of this Order, ~~since additional time for permit compliance, provided under the 2008 Compliance Schedule Policy, was not offered by the TMDL.~~ Effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitations, ~~so a TSO for chronic toxicity is not needed.~~

¹⁶ This is a Median Monthly Effluent Limitation.

reads as follows: “The toxicity WLAs will be implemented in accordance with USEPA, State Board and Regional Board resolutions, **guidance** (emphasis added) and policy at the time of permit issuance or renewal.”

In January 2010, USEPA published a guidance document titled, “EPA Regions 8, 9 and 10 Toxicity Training Tool,” which among other things discusses permit limit expression for chronic toxicity. The document acknowledges that NPDES regulations at 40 CFR 122.45(d) require that all permit limits be expressed, unless impracticable, as both a Maximum Daily Limitation (MDL) and an Average Monthly Limitation (AML) for all dischargers other than POTWs, and as an average weekly limit (AWL) and AML for POTWs. Following Section 5.2.3 of the Technical Support Document (TSD), the use of an AWL is not appropriate for WET. In lieu of an AWL for POTWs, EPA recommends establishing an MDL for toxic pollutants and pollutants in water quality permitting, including WET. This is appropriate for two reasons. The basis for the average weekly requirement for POTWs derives from secondary treatment regulations and is not related to the requirement to assure achievement of WQS. Moreover, an average weekly requirement comprising up to seven daily samples could average out daily peak toxic concentrations for WET and therefore, the discharge’s potential for causing acute and chronic effects would be missed. It is impracticable to use an AWL, because short-term spikes of toxicity levels that would be permissible under the 7-day average scheme would not be adequately protective of all beneficial uses. The MDL is the highest allowable value for the discharge measured during a calendar day or 24-hour period representing a calendar day. The permit should contain a condition indicating that the MDL is interpreted as the maximum acute or chronic WET result for that calendar month. The AML is the highest allowable value for the average of daily discharges obtained over a calendar month. For WET, this is the average of individual WET test results for that calendar month. However, in cases where a chronic mixing zone is not authorized, EPA Regions 9 and 10 continue to recommend that the AML for chronic WET should be expressed as a median monthly limit (MML).

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Later in June 2010, USEPA published another guidance document titled, Test of Significant Toxicity Implementation Document (EPA 833-R-10-003, June 2010), in which they recommend the following: “Permitting authorities should consider adding the TST approach to their implementation procedures for analyzing valid WET data for their current NPDES WET Program.” The TST approach is another statistical option for analyzing valid WET test data. Use of the TST approach does not result in any changes to EPA’s WET test methods. Section 9.4.1.2 of USEPA’s *Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms* (EPA/821/R-02/013, 2002), recognizes that, “the statistical methods in this manual are not the only possible methods of statistical analysis.” The TST approach can be applied to acute (survival) and chronic (sublethal) endpoints and is appropriate to use for both freshwater and marine EPA WET test methods. In 2014, in response to the State Water Board’s request to use the TST hypothesis testing approach in NPDES permits, USEPA determined—based on the evidence presented in the State Water Board’s request—that the results of TST tests and NOEC-LOEC tests—are acceptably equivalent under the Alternative Test Procedure (ATP) process at 40 CFR 136 for all NPDES permits issued by State and Regional Water Boards.

The effluent limitation for chronic toxicity was established regardless of whether or not there is reasonable potential for the pollutants to be present in the discharge at levels that would cause or contribute to a violation of water quality standards, since the *Toxicity TMDL* establishes a chronic toxicity WLA for the Hill Canyon WWTP. The Regional Water Board developed water quality-based effluent limitations for these pollutants pursuant to Part 122.44(d)(1)(vii), which does not require or contemplate a reasonable potential analysis. However, the effluent data demonstrates that there is reasonable potential because the chronic toxicity trigger was exceeded three times.

In the past, the State Water Board reviewed the circumstances warranting a numeric chronic toxicity effluent limitation for POTWS when there is reasonable potential with respect to SWRCB/OCC Files A-1496 & A-1496(a) [Los Coyotes/Long Beach Petitions]. On September 16, 2003, at a public hearing, the State Water Board adopted Order No. 2003-0012 deferring the issue of numeric chronic toxicity effluent limitations for POTWS until a subsequent Phase of the SIP is adopted. In the meantime, the State Water Board replaced the numeric chronic toxicity limit with a narrative effluent limitation and a 1 TUC trigger, in the Long Beach and Los Coyotes WRP NPDES permits. Hill Canyon WWTP's NPDES permit contained a similar narrative chronic toxicity effluent limitation, with a numeric trigger for accelerated monitoring, consistent with the State Water Board's precedential Order.

However, many things have changed since the State Water Board adopted its precedential Order in 2003. Namely, the Regional Water Board adopted the *Calleguas Creek Toxicity TMDL* containing a numeric WLA for chronic toxicity for the five POTWS located in the watershed; USEPA published two new guidance documents with respect to chronic toxicity; the Los Angeles Regional Water Board adopted NPDES permits for industrial facilities incorporating TST-based limits for chronic toxicity and has adopted numeric chronic toxicity effluent limits for industrial facilities with TMDL WLAs of 1 TUC; the Santa Ana Regional Water Board adopted an NPDES permit for a POTW incorporating TST-based limits for chronic toxicity; and the State Water Board is in the process of adopting a statewide plan incorporating the TST approach. Based on differences between the facts before the Regional Water Board in 2014 and the facts that were the basis for the State Water Board precedent in 2003, Regional Water Board staff conclude that the State Water Board precedent does not apply.

Nevertheless, this Order contains a reopener to allow the Regional Water Board to modify the permit in the future, if necessary, to make it consistent with any new policy, plan, law, or regulation.

D. Final Effluent Limitation Considerations

1. Anti-Backsliding Requirements

Sections 402(o) and 303(d)(4) of the CWA and federal regulations at 40 CFR § 122.44(l) prohibit backsliding in NPDES permits. These anti-backsliding provisions require effluent limitations in a reissued permit to be as stringent as those in the previous permit, with some exceptions where limitations may be relaxed. The effluent limitations in this Order are at least as stringent as the effluent limitations in the previous Order, with the exception of effluent limitation for fluoride, antimony, arsenic, cadmium, chromium VI,

lead, selenium, silver, thallium, zinc, benzene, bromodichloromethane, toluene, dichlorobromomethane, methylene chloride, Tetrachloroethylene, 2,4-dichlorophenol, 3-methyl-4-chlorophenol, pentachlorophenol, phenol, 2,4,6-trichlorophenol, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, fluoranthene, aldrin, alpha-BHC, beta-BHC, lindane, endrin, heptachlor, heptachlor epoxide, barium, methoxychlor, 2,4-D, 2,4,5-TP (Silvex), iron, halomethanes, manganese, aluminum, and tributyltin. Those effluent limitations were removed because the pollutants did not show reasonable potential to exceed the applicable water quality criteria, which constitutes new information and an exception to the general rule against backsliding. This removal of effluent limitations is consistent with the anti-backsliding requirements of the CWA and federal regulations. Applicable exceptions to the anti-backsliding requirements justifying removal of certain effluent limitations include a) material and substantial alterations or additions to the permitted facility occurred after permit issuance and b) new information obtained after permit issuance.

Under CWA sections 403(o)(1) and 303(d)(4)(B) for waters in attainment, relaxation is consistent with the State's antidegradation policy because the discharge is in compliance with existing water quality objectives for the aforementioned pollutants in North Fork Arroyo Conejo.

2. **Antidegradation Policies**

40 CFR § 131.12 requires that state water quality standards include an antidegradation policy consistent with the federal antidegradation policy. On October 28, 1968, the State Water Board established California's antidegradation policy when it adopted Resolution No.68-16, *Statement of Policy with Respect to Maintaining the Quality of the Waters of the State*. Resolution No. 68-16 requires that existing water quality be maintained unless degradation is justified based on specific findings. The State Water Board has, in State Water Board Order No. 86-17 and an October 7, 1987 guidance memorandum, interpreted Resolution No. 68-16 to be fully consistent with the federal antidegradation policy contained in 40 CFR § 131.12. Similarly, CWA section 303(d)(4)(B) and 40 CFR § 131.12 require that all permitting actions be consistent with the federal antidegradation policy. Together, the state and federal antidegradation policies are designed to ensure that a water body will not be degraded resulting from the permitted discharge. The Regional Water Board's Basin Plan implements, and incorporates by reference, both the state and federal antidegradation policies. North Fork Arroyo Conejo and other tributaries to Calleguas Creek are included on the 303(d) list for many pollutants. The Regional Water Board adopted TMDLs to attain water quality standards in the receiving waters, at a future date for: salts, pesticides, PCBs, toxicity, and metals. The NPDES permit contains concentration-based and mass-based limits for copper and nickel to protect aquatic life beneficial use from the point of discharge all the way to the sensitive Mugu Lagoon area, downstream of the discharge. The permit also contains concentration-based limitations based on the California Toxics Rule to protect human health and recreational uses in the receiving water. In addition, The City of Thousand Oaks is pursuing plans to maximize the recycling of its high-quality tertiary-treated effluent. The renewal of the NPDES permit will not lower surface water quality because the conditions in the Order are at least as stringent as the prior Order and because the Hill Canyon WWTP Facility is reducing its flow to surface waters. Therefore, discharges permitted in this Order are consistent with the antidegradation provisions of 40 CFR part 131.12 and State Water Board Resolution No. 68-16.

3. **Stringency of Requirements for Individual Pollutants**

This Order contains both TBELs and WQBELs for individual pollutants. The technology-based effluent limitations consist of restrictions on BOD, TSS, pH, and percent removal of BOD and TSS. Restrictions on BOD, TSS and pH are discussed in section IV.B. of the Fact Sheet. This Order’s technology-based pollutant restrictions implement the minimum, applicable federal technology-based requirements. In addition, this Order contains effluent limitations more stringent than the minimum, federal technology-based requirements that are necessary to meet water quality standards.

Water quality-based effluent limitations have been scientifically derived to implement WQOs that protect beneficial uses. Both the beneficial uses and the WQOs have been approved pursuant to federal law and are the applicable federal water quality standards. To the extent that toxic pollutant WQBELs were derived from the CTR, the CTR is the applicable standard pursuant to 40 CFR § 131.38. The scientific procedures for calculating the individual water quality-based effluent limitations for priority pollutants are based on the CTR-SIP, which was approved by USEPA on May 18, 2000. All beneficial uses and WQOs contained in the Basin Plan were approved under state law and submitted to and approved by USEPA prior to May 30, 2000. Any WQOs and beneficial uses submitted to USEPA prior to May 30, 2000, but not approved by USEPA before that date, are nonetheless “applicable water quality standards for purposes of the CWA” pursuant to 40 CFR § 131.21(c)(1). Collectively, this Order’s restrictions on individual pollutants are no more stringent than required to implement the requirements of the CWA and the applicable water quality standards for purposes of the CWA.

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Table F-9. Summary of Final Effluent Limitations for Discharge Points 005

Parameter	Units	Effluent Limitations					Basis
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Min.	Instantaneous Max.	
BOD ₅ 20°C	mg/L	20	30	45			Existing
	lbs/day ¹⁷	2,300	3,500	5,200			
Total Suspended Solids (TSS)	mg/L	15	40	45			Existing
	lbs/day ¹⁷	1,750	4,600	5,200			
pH	standard units	--	--	--	6.5	8.5	Existing
Removal Efficiency for BOD and TSS	%	85	--	--			Existing
Oil and Grease	mg/L	10	--	15			Existing
	lbs/day ¹⁷	1,200		1,750			
Settleable Solids	ml/L	0.1	--	0.3			Existing
Total Residual Chlorine	mg/L	--	--	0.1			Existing
TDS (dry-weather) ¹⁸⁾	lbs/day	99,250 ¹⁹⁾	--	--			TMDL

¹⁷ The mass emission rates are based on the plant design flow rate of 14 mgd, and are calculated as follows: Flow (MGD) x Concentration (mg/L) x 8.34 (conversion factor) = lbs/day.

¹⁸ Dry weather is defined in the *Salts TMDL* as the condition when the flows in the receiving water are below the 86th percentile flow, or less than 31.24.6 cubic feet per second (cfs) in Calleguas Creek at California State University Channel Islands (CSUCI) in Calleguas Creek where it intersects Pacific Coast Highway.

¹⁹ This limitation is derived from the final Waste Load Allocations (WLAs) in the *Calleguas Creek Watershed Salts Total Maximum Daily Load (Salts TMDL)*, established by the Regional Water Board on October 4, 2007. The *Salts TMDL* which became effective on December 2, 2008, following USEPA’s approval, specifies interim WLAs for TDS, sulfate, and chloride. However, interim effluent limits based on the interim WLAs in the *Salts TMDL* have not been incorporated into

Parameter	Units	Effluent Limitations					Basis
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Min.	Instantaneous Max.	
TDS (wet-weather) ²⁰	mg/L	850					Basin Plan
Sulfate (dry-weather) ¹⁸	lbs/day	29,200 ¹⁹	--	--			TMDL
Sulfate (wet-weather) ²⁰	mg/L	250	--	--			Basin Plan
Chloride (dry-weather) ¹⁸	lbs/day	17,500 ¹⁹	--	--			TMDL
Chloride (wet weather) ²⁰	mg/L	150					Basin Plan
Boron	mg/L	1.0	--	--			Basin Plan
MBAS	mg/L	0.5	--	--			Existing
	lbs/day	60	--	--			
Ammonia Nitrogen	mg/L	3.5 ²¹	--	7.8 ²¹			TMDL
	lbs/day	--	--	5.1 x Q ²²			
Nitrate + Nitrite (as N)	mg/L	9 ²³	--	--			TMDL
	lbs/day	--	--	--			
Nitrate (as N)	mg/L	9 ²³	--	--			TMDL
	lbs/day	--	--	--			
Nitrite (as N)	mg/L	0.9 ²³	--	--			TMDL
	lbs/day	--	--	--			
Beryllium	µg/L	4	--	--			SIP/CTR
	lbs/day	0.46	--	--			
Cyanide	µg/L	4.2	--	8.5			SIP/CTR
	lbs/day	0.49	--	0.99			

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this Order because the effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitations.

Consistent with the *Salts TMDL*, these limits apply only during dry weather (as defined in the *Salts TMDL*, as explained in WDR § VII.O).

²⁰ Wet weather is defined in the *Salts TMDL* as the condition when the flows in the receiving water are greater than or equal to the 86th percentile flow, or greater than or equal to -24.631 cubic feet per second (cfs) in Calleguas Creek at CSUCI where it intersects Pacific Coast Highway.

²¹ This limitation is derived from the final WLA for ammonia nitrogen, as set forth in the *Nitrogen Compounds and Related Effects TMDL*, established by the Regional Water Board on October 24, 2002. Final WLAs became operative on October 24, 2004. This final effluent limitation applies on the effective date of this Order. Effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitations, and a TSO is not needed.

²² **Q** represents the POTW flow at the time the water quality measurement is collected (not to exceed 14 MGD) and a conversion factor to lbs/day based on the units of measure for the flow.

²³ This limitation is derived from the final WLA for nitrate nitrogen, nitrite nitrogen, and nitrate plus nitrite nitrogen, as set forth in the *Nitrogen Compounds and Related Effects TMDL*, established by the Regional Water Board on October 24, 2002. Final WLAs became operative on July 16, 2007. This final effluent limitation applies on the effective date of this Order. Effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitations, and a TSO is not needed.

Parameter	Units	Effluent Limitations					Basis
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Min.	Instantaneous Max.	
Copper	µg/L	28 ²⁴	--	42 ²⁴			TMDL
	lbs/day	--	--	0.4 ²⁵			
Nickel	µg/L	153 ²⁶	--	231 ²⁶			TMDL
	lbs/day	--	--	0.3 ²⁷			
Mercury	lbs/month	0.022 ²⁸	--	--			TMDL
Bis(2-ethylhexyl) Phthalate	µg/L	4.0	--	--			Basin Plan
	lbs/day	0.46	--	--			
Chlorpyrifos	µg/L	0.0133 ²⁹	--	0.024 ²⁹			TMDL
Diazinon	µg/L	0.1 ²⁹	--	0.1 ²⁹			TMDL

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²⁴ This limitation is derived from the final WLA, as set forth in the *Calleguas Creek Watershed Metals TMDL (Metals TMDL)*, established by the Regional Water Board on June 8, 2006. The TMDL became effective on March 26, 2007. The *Metals TMDL* contains concentration-based WLAs that are expressed in terms of a footnote, which indicates that the concentration-based final limits will be included in the permits in accordance with NPDES guidance and requirements, but are not calculated as part of the TMDL. WLA-based limits were calculated using the freshwater CTR criteria, consistent with the *Final Metals and Selenium TMDL Technical Report (Technical Report)*, dated May 2006. This final effluent limitation applies on the effective date of this Order. Effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitations, and a TSO is not needed.

²⁵ This limitation is derived from the mass-based final WLA, as set forth in the *Metals TMDL*, established by the Regional Water Board on June 8, 2006, for the protection of the lower reaches of Calleguas Creek. The TMDL became effective on March 26, 2007. The mass-based WLA is expressed in terms of a formula that incorporates a Water Effects Ratio (WER). The WLA-based limit was calculated using the 3.69 copper WER approved by the Regional Water Board on November 9, 2006. Interim effluent limitations may be provided in a separate Time Schedule Order.

²⁶ This limitation is derived from the final WLA, as set forth in the *Metals TMDL*, established by the Regional Water Board on June 8, 2006. The TMDL became effective on March 26, 2007. The *Metals TMDL* contains concentration-based WLAs that are expressed in terms of a footnote, which indicates that the concentration-based final limits will be included in the permits in accordance with NPDES guidance and requirements, but are not calculated as part of the TMDL. WLA-based limits were calculated using the freshwater CTR criteria, consistent with the *Final Metals and Selenium TMDL Technical Report (Technical Report)*, dated May 2006. This final effluent limitation applies on the effective date of this Order. Effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitations, and a TSO is not needed.

²⁷ This mass-based effluent limitation is derived from the mass-based final WLA, as set forth in the *Calleguas Creek Watershed Metals TMDL*, established by the Regional Water Board on June 8, 2006, for the protection of the lower reaches of Calleguas Creek. The TMDL became effective on March 26, 2007. This final effluent limitation applies on the effective date of this Order. Effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitations, and a TSO is not needed.

²⁸ This limitation is derived from the final WLA, as set forth in the *Calleguas Creek Watershed Metals TMDL*, established by the Regional Water Board on June 8, 2006. This limitation is derived from the WLA for mercury, specified in pounds per month, as set forth in said TMDL. The TMDL became effective on March 26, 2007. This final effluent limitation applies on the effective date of this Order. Effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitations, and a TSO is not needed.

²⁹ This limitation is derived from the final WLA as set forth in the *Calleguas Creek Watershed Toxicity TMDL*, established by the Regional Water Board on July 7, 2005. The TMDL became effective on March 24, 2006. Consistent with the TMDL, the final WLA-based limit became operative on March 23, 2008. This final effluent limitation applies on the effective date of this Order. Effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitations, and a TSO is not needed.

Parameter	Units	Effluent Limitations					Basis
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Min.	Instantaneous Max.	
Chlordane	µg/L	0.00059 ³⁰	--	0.0012 ³⁰			TMDL
4,4'-DDD	µg/L	0.00084 ³⁰	--	0.0017 ³⁰			TMDL
4,4'-DDE	µg/L	0.00059 ³⁰	--	0.0012 ³⁰			TMDL
4,4'-DDT	µg/L	0.00059 ³⁰	--	0.0012 ³⁰			TMDL
Dieldrin	µg/L	0.00014 ³⁰	--	0.00028 ³⁰			TMDL
PCBs ³¹	µg/L	0.00017 ³⁰	--	0.00034 ³⁰			TMDL
Toxaphene	µg/L	0.00016 ³⁰	--	0.00033 ³⁰			TMDL
Toxicity ^{32, 33}	Pass or Fail, %Effect	Pass ³⁴	--	Pass or %Effect < 50			TMDL, TST

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E. Interim Effluent Limitations

No interim limits are included in this NPDES Order.

Table F-10. Interim Effluent Limitations for Discharge Point 005

Parameter	Units	Effluent Limitations				
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum

³⁰ This limitation is derived from the final WLA, as set forth in the *Calleguas Creek Watershed Organochlorine Pesticide, Polychlorinated Biphenyls (PCB), and Siltation TMDL*, established by the Regional Water Board on July 7, 2005. The limitation is derived from the final WLA as set forth in said TMDL. The TMDL became effective on March 24, 2006. This final effluent limitation applies on the effective date of this Order. Effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitations, and a TSO is not needed.

³¹ Applies to sum of all congener or isomer or homolog or Aroclor analyses.

³² The *Calleguas Creek Watershed Toxicity TMDL* includes a WLA of 1.0 TUC for toxicity, which is required to be implemented in accordance with USEPA, State Water Board, and Regional Water Board resolutions, guidance and policy at the time of permit issuance or renewal. The numeric WLA is protective of both the numeric acute toxicity and the narrative toxicity Basin Plan water quality objectives. Consistent with the *Toxicity TMDL Implementation Plan*, this toxicity WLA will be implemented using current USEPA guidance in *National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document (EPA 833-R-10-003, June /2010)* and *EPA Regions 8, 9 and 10 Toxicity Training Tool (January 2010)*, <http://www2.epa.gov/region8/epa-regions-8-9-and-10-toxicity-training-tool-january-2010>.

³³ "Pass" or "Fail" for Median Monthly Effluent Limitation (MMEL). "Pass" or "Fail" and "% Effect" for Maximum Daily Effluent Limitation (MDEL). The MMEL for chronic toxicity shall only apply when there is a discharge more than one day in a calendar month period. During such calendar months, exactly three independent toxicity tests are required when one toxicity test results in "Fail". The final effluent limitation will apply on the effective date of this Order, ~~since additional time for permit compliance, provided under the 2008 Compliance Schedule Policy, was not offered by the TMDL.~~ Effluent data demonstrates that the Facility's discharge is currently able to comply with the final WLA-based limitations, ~~so a TSO for chronic toxicity is not needed.~~

³⁴ This is a Median Monthly Effluent Limitation.

Parameter	Units	Effluent Limitations				
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
N/A			--	--		

F. Land Discharge Specifications – Not Applicable

G. Recycling Specifications

The City of Thousand Oaks is not subject to separate Water Recycling Requirements (WRRs). Instead, the City has a water rights petition that allows them to sell water to Camrosa Water District. Presently, Hill Canyon WWTP sells about 7 MGD (approximately 78%) of its treated effluent to Camrosa WRP. The effluent is taken out of Calleguas at a diversion structure that is owned and operated by Camrosa Water District. The recycled water is used for agricultural irrigation. The Permittee currently recycles approximately 78% (7 million gallons per day) of the total treated effluent and plans to increase that amount until it recycles 100% of the treated effluent. Recycled water is used for agricultural irrigation. The production, distribution, and reuse of recycled water are presently regulated under a water rights agreement issued by the State Water Board. The City of Thousand Oaks indicated in correspondence that it will contract a consultant to evaluate the feasibility of expanding its recycled water program, currently existing under a water rights petition.

Currently, the City of Thousand Oaks has accepted statements of qualifications from seven consulting firms and will be selecting a consulting firm by the end of February 2014. The consulting firm will be tasked with evaluating the feasibility of utilizing local groundwater as a source of potable water for its residents, to reduce the reliance on imported water, and evaluating ways of further utilizing recycled water to benefit the City in the future.

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V. RATIONALE FOR RECEIVING WATER LIMITATIONS

A. Surface Water

Receiving water limitations are based on WQOs contained in the Basin Plan and are a required part of this Order.

B. Groundwater

Limitations in this Order must protect not only surface receiving water beneficial uses, but also, the beneficial uses of underlying groundwater where there is a recharge beneficial use of the surface water. In addition to a discharge to surface water, there is discharge that can impact groundwater. Sections of North Fork Arroyo Conejo and Calleguas Creek, near the Hill Canyon WWTP discharge points, are designated as GWR beneficial use. Surface water from North Fork Arroyo Conejo percolates into the Pleasant Valley Groundwater Basin with MUN beneficial use specified in the Basin Plan. Since groundwater from the Basin is used to provide drinking water to the community, the groundwater aquifers should be protected.

The issue of using MCLs as the basis for establishing final effluent limitations in an NPDES permit, to protect the GWR beneficial use of surface waters and the MUN beneficial use of the groundwater basins, has been addressed by the State Board in its WQO No. 2003-0009, in the *Matter of the Petitions of County Sanitation District No. 2 of Los Angeles and Bill Robinson for Review of Waste Discharge Requirements Order No. R4-2002-0142 and Time Schedule Order No. R4-2002-0143 for the Whittier Narrows Water Reclamation Plant*. The

groundwater recharge (GWR) beneficial use is premised on a hydrologic connection between surface waters and groundwater, where the groundwater in this case is designated with an existing MUN beneficial use. Since there are no criteria or objectives specific to the GWR beneficial use, the Los Angeles Regional Water Board's Basin Plan, staff based effluent limitations for the GWR use on the groundwater MUN objectives. By doing so, the Regional Water Board ensures that the use of surface waters to recharge groundwater used as an existing drinking water source is protected. The fact that there are no criteria or objectives specific to the GWR beneficial use does not deprive the Regional Water Board the ability to protect the use. The CWA contemplates enforcement of both beneficial uses as well as criteria in state water quality standards. In California, an NPDES permit also serves as waste discharge requirements under state law.

Reasonable potential analysis was conducted using new data. The analysis showed that the discharge had reasonable potential to exceed the primary MCL for bis(2-ethylhexyl)phthalate, therefore, a limit is included in the permit for bis(2-ethylhexyl)phthalate. The effluent limitation is expressed as a monthly average rather than a daily maximum, because it was assumed that the groundwater basins have assimilative capacity for that pollutant. The monthly averaging period is justified because these pollutants are not expected to produce acute effects. Since the discharge has reasonable potential to exceed the MCL, an end-of-pipe final effluent limitation for bis(2-ethylhexyl)phthalate is needed.

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VI. RATIONALE FOR PROVISIONS

A. Standard Provisions

Standard Provisions, which apply to all NPDES permits in accordance with 40 CFR § 122.41, and additional conditions applicable to specified categories of permits in accordance with 40 CFR § 122.42, are provided in Attachment D. The Permittee must comply with all standard provisions and with those additional conditions that are applicable under section 122.42.

B. Special Provisions

1. Reopener Provisions

This provision is based on 40 CFR part 123. The Regional Water Board may reopen the permit to modify permit conditions and requirements. Causes for modifications include the promulgation of new regulations, modification in sludge use or disposal practices, or adoption of new regulations by the State Water Board or Regional Water Board, including revisions to the Basin Plan.

2. Special Studies and Additional Monitoring Requirements

- a. **Constituent of Emerging Concern (CEC).** In recent years, the Los Angeles Regional Water Board has incorporated monitoring of a select group of man-made chemicals, particularly pesticides, pharmaceuticals and personal care products, known collectively as CECs, into permits issued to POTWs to better understand the propensity, persistence and effects of CECs in our environment. Recently adopted permits in this region contain requirements for CEC effluent monitoring and submittal of a work plan identifying the CECs to be monitored in the effluent, sample type, sampling frequency and sampling methodology. Based on feedback we have received from permittees and our review of the results of a recent CEC-related study by the Southern California Coastal Water Research Project (SCCWRP) and the State Water Board, we have modified our CEC monitoring program to respond to feedback while proceeding to fill identified data gaps without overly burdening any one permittee.

The Permittee shall conduct a special study to investigate the CECs in the effluent discharge as listed in Table E-5 of the MRP. These constituents shall be monitored annually for at least two years. The Regional Water Board has determined that two years is an appropriate time period to determine those CECs that are present in POTW effluent. Monitoring results shall be reported as part of the annual report.

Analysis under this section is for monitoring purposes only. Analytical results obtained for this study will not be used for compliance determination purposes, since the methods have not been incorporated into 40 CFR part 136

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- b. **Antidegradation Analysis and Engineering Report for Proposed Plant Expansion.** This provision is based on the State Water Board Resolution No. 68-16, which requires the Regional Water Board in regulating the discharge of waste to maintain high quality waters of the state. The Permittee must demonstrate that it has implemented adequate controls (e.g., adequate treatment capacity) to ensure that high quality waters will be maintained. This provision requires the Permittee to clarify that it has increased plant capacity through the addition of new treatment system(s) to obtain alternative effluent limitations for the discharge from the treatment system(s). This provision requires the Permittee to report specific time schedules for the plants projects. This provision requires the Permittee to submit report to the Regional Water Board for approval.
 - c. **Operations Plan for Proposed Expansion.** This provision is based on section 13385(j)(1)(D) of the CWC and allows a time period not to exceed 90 days in which the Permittee may adjust and test the treatment system(s). This provision requires the Permittee to submit an Operations Plan describing the actions the Permittee will take during the period of adjusting and testing to prevent violations.
 - d. **Treatment Plant Capacity.** The treatment plant capacity study required by this Order shall serve as an indicator for the Regional Water Board regarding Facility's increasing hydraulic capacity and growth in the service area.
3. **Best Management Practices and Pollution Prevention**
 - a. **Pollutant Minimization Program (PMP).** This provision is based on the requirements of section 2.4.5 of the SIP.
 4. **Construction, Operation, and Maintenance Specifications**

This provision is based on the requirements of 40 CFR § 122.41(e) and the previous Order.
 5. **Special Provisions for Municipal Facilities (POTWs Only)**
 - a. **Biosolids Requirements.** To implement CWA section 405(d), on February 19, 1993, USEPA promulgated 40 CFR part 503 to regulate the use and disposal of municipal sewage sludge. This regulation was amended on September 3, 1999. The regulation requires that producers of sewage sludge meet certain reporting, handling, and disposal requirements. It is the responsibility of the Permittee to comply with said regulations that are enforceable by USEPA, because California has not been delegated the authority to implement this program. The Permittee is also responsible for compliance with WDRs and NPDES permits for the generation, transport and application of biosolids issued by the State Water Board, other

Regional Water Boards, Arizona Department of Environmental Quality or USEPA, to whose jurisdiction the Facility's biosolids will be transported and applied.

- b. **Pretreatment Requirements.** This permit contains pretreatment requirements consistent with applicable effluent limitations, national standards of performance, and toxic and performance effluent standards established pursuant to sections 208(b), 301, 302, 303(d), 304, 306, 307, 403, 404, 405, and 501 of the CWA, and amendments thereto. This permit contains requirements for the implementation of an effective pretreatment program pursuant to section 307 of the CWA; 40 CFR 35 and 403; and/or Title 23, CCR section 2233.
- c. **Spill Reporting Requirements.** This Order established a reporting protocol for how different types of spills, overflow or bypasses of raw or partially treated sewage from its collection system or treatment plant covered by this Order shall be reported to regulatory agencies.

The State Water Board issued General Waste Discharge Requirements for Sanitary Sewer Systems, Water Quality Order 2006-0003-DWQ (SSO WDR) on May 2, 2006. The Monitoring and Reporting Requirements for the SSO WDR were amended by Water Quality Order WQ 2008-0002-EXEC on February 20, 2008. The SSO WDR requires public agencies that own or operate sanitary sewer systems with greater than one mile of pipes or sewer lines to enroll for coverage under the SSO WDR. The SSO WDR requires agencies to develop sanitary sewer management plans (SSMPs) and report all sanitary sewer overflows (SSOs), among other requirements and prohibitions.

Furthermore, the SSO WDR contains requirements for operation and maintenance of collection systems and for reporting and mitigating sanitary sewer overflows. Inasmuch that the Permittee's collection system is part of the system that is subject to this Order, certain standard provisions are applicable as specified in Provisions, section VI.C.5. For instance, the 24-hour reporting requirements in this Order are not included in the SSO WDR. The Permittee must comply with both the SSO WDR and this Order. The Permittee and public agencies that are discharging wastewater into the Facility were required to obtain enrollment for regulation under the SSO WDR by December 1, 2006.

6. **Other Special Provisions (Not Applicable)**

7. **Compliance Schedules**

An NPDES permit must include final effluent limitations that are consistent with CWA section 301 and with 40 CFR § 122.44(d).

[For non-California Toxics Rule \(CTR\) constituents, compliance schedules in NPDES permits are only authorized pursuant to the State Water Board's Resolution 2008-0025 "Policy for Compliance Schedules in National Pollutant Discharge Elimination System Permits" \(Compliance Schedule Policy\), Resolution 2008-0025, which allows compliance schedules for new, revised, or newly interpreted WQOs or criteria, or in accordance with a TMDL. Pursuant to the Compliance Schedule Policy, any discharger seeking a compliance schedule in the permit must demonstrate to the satisfaction of the Regional Water Board that the discharger needs time to implement actions to comply with a more stringent permit limitation and must provide the Regional Water Board with specific documentation pursuant to Section 4 of the Policy.](#) All compliance schedules

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must be as short as possible, and may not exceed ten years from the effective date of the adoption, revision, or new interpretation of the applicable WQO or criterion, unless a TMDL allows a longer schedule. Where a compliance schedule for a final effluent limitation exceeds one year, the Order must include interim numeric effluent limitations for that constituent or parameter, interim requirements and dates toward achieving compliance, and compliance reporting within 14 days after each interim date. The Order may also include interim requirements to control the pollutant, such as pollutant minimization and source control measures. Based on the City's monitoring data and limited documentation submitted, the City has not justified inclusion of a compliance schedule for chloride in the permit. Since the Permittee has not submitted sufficient information to justify the inclusion of a compliance schedule for chloride pursuant to the Compliance Schedule Policy, the interim WLA and the compliance schedule cannot be included in this NPDES Order. Therefore, a time schedule for final effluent limitations for chloride may be established in a separate Time Schedule Order.

The final mass-based permit effluent limitation for copper is more stringent than the effluent limitations previously implemented. This new limitation is based on the *Metals* TMDL WLA. ~~The Permittee has not complied with the application requirements in paragraph 4 of the Compliance Schedule Policy, even though, and the Permittee requested 's application demonstrates the need for~~ additional time to implement actions to comply with the more stringent final mass-based effluent new limitations for copper. ~~However, w~~ However, w where a TMDL WLA is based on CTR criteria, compliance schedules for CTR criteria are no longer authorized pursuant to the CTR or by the Compliance Schedule Policy, which expressly does not authorize compliance schedules for CTR constituents. the Compliance Schedule Policy does not authorize compliance schedules. In these circumstances, compliance schedules are only authorized if USEPA approved the TMDL implementation plan pursuant to CWA section 303(c) and the compliance schedule complies with 40 CFR sections 122.2 and 122.47. Since the Metals TMDL has only been approved by USEPA under CWA § 303(d), and not 303(c), the Regional Water Board currently lacks authority to provide a compliance schedule for copper the interim WLAs and the compliance schedule cannot be included in this Order. However, even if the Regional Water Board had received Clean Water Act section 303(c) approval from USEPA for the CCW Metals TMDL, the City's proposed compliance schedule does not comply with 40 CFR sections 122.2 and 122.47. The Regional Water Board may provide interim effluent limits for copper in a separate Time Schedule Order. HoweveIn addition, the Regional Water Board may reopen this permit at a later date to make modifications if: (1) USEPA approves the Metals TMDL under 303-(c) of the CWA and (2) the Discharger submits sufficient information pursuant to the Compliance Schedule Policy and 40 CFR sections 122.2 and part 122.47.

Since the Permittee has not submitted sufficient information to justify the inclusion of a compliance schedule for chloride pursuant to the Compliance Schedule Policy or federal regulations, the interim WLA and the compliance schedule cannot be included in the NPDES Order. Therefore, a compliance schedule for compliance with final effluent limitations for chloride may be established in a separate Time Schedule Order.

Table F-11. Plant Performance Evaluation

Constituent	Average Concentration (mg/L)	Maximum Concentration (mg/L)	95th Percentile Concentration (mg/L)	99 th percentile Concentration (mg/L)

Constituent	Average Concentration (mg/L)	Maximum Concentration (mg/L)	95th Percentile Concentration (mg/L)	99 th percentile Concentration (mg/L)
N/A				

Table F-12. Compliance Schedule Milestone Dates

Task No.	Description	Start Date	End Date
N/A			

There is no compliance schedule included in Special Provisions section VI.C.7.

VII. RATIONALE FOR MONITORING AND REPORTING REQUIREMENTS

Section 308(a) of the federal Clean Water Act and sections 122.41(h), (j)-(l), 122.44(i), and 122.48 of Title 40 of the Code of Federal Regulations (40 CFR) require that all NPDES permits specify monitoring and reporting requirements. CWC sections 13267 and 13383 also authorizes the Regional Water Board to establish monitoring, inspection, entry, reporting, and recordkeeping requirements. The MRP establishes monitoring, reporting, and recordkeeping requirements that implement federal and state requirements. The following provides the rationale for the monitoring and reporting requirements contained in the MRP for this Facility.

A. Influent Monitoring

Influent monitoring is required:

- To determine compliance with the permit conditions for BOD₅ 20°C and suspended solids removal rates;
- To assess treatment plant performance;
- To assess the effectiveness of the Pretreatment Program; and,
- As a requirement of the PMP

B. Effluent Monitoring

The Permittee is required to conduct monitoring of the permitted discharges in order to evaluate compliance with permit conditions. Monitoring requirements are given in the MRP Attachment E. This provision requires compliance with the MRP, and is based on 40 CFR sections 122.44(i), 122.62, 122.63, and 124.5. The MRP is a standard requirement in almost all NPDES permits (including this Order) issued by the Regional Water Board. In addition to containing definition of terms, it specifies general sampling/analytical protocols and the requirements of reporting spills, violation, and routine monitoring data in accordance with NPDES regulations, the CWC, and Regional Water Board policies. The MRP also contains sampling program specific for the Permittee’s wastewater treatment plant. It defines the sampling stations and frequency, pollutants to be monitored, and additional reporting requirements. Pollutants to be monitored include all pollutants for which effluent limitations are specified. Further, in accordance with section 1.3 of the SIP, a periodic monitoring is required for all priority pollutants defined by the CTR, for which criteria apply and for which no effluent limitations have been established, to evaluate reasonable potential to cause or contribute to an excursion above a water quality standard.

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Monitoring for those pollutants expected to be present in the discharge from the Facility, will be required as shown on the MRP and as required in the SIP. Semi-annual monitoring for priority pollutants in the effluent is required in accordance with the Pretreatment requirements.

Table F-13. Monitoring Frequency Comparison

Parameter	Monitoring Frequency (2003 Permit)	Monitoring Frequency (2014 Permit)
Total waste flow	continuous	no change
Total residual chlorine	continuous	no change
Turbidity	continuous	no change
Temperature	weekly	no change
pH	weekly	no change
Settleable solids	weekly	no change
Total suspended solids	weekly	no change
Oil and grease	monthly	quarterly
BOD	weekly	no change
Dissolved oxygen	monthly	no change
Total coliform	daily	no change
Fecal Coliform	daily	no change
E.coli	not monitored	daily (as necessary)
Total Dissolved Solids	monthly	no change
Sulfate	monthly	no change
Chloride	monthly	no change
Boron	monthly	no change
MBAS	monthly	quarterly
CTAS	monthly	quarterly
Ammonia nitrogen	monthly	no change
Nitrate + nitrite (as nitrogen)	monthly	no change
Nitrite nitrogen	monthly	no change
Organic N	monthly	no change
TKN	monthly	no change
Orthophosphate-P	monthly	no change
Total Hardness (CaCO ₃)	weekly	monthly
Chronic toxicity	monthly	no change
Bis(2-ethylhexyl)phthalate	monthly	no change
Total Nitrogen	monthly	no change
Total Phosphorus	monthly	no change
Algal biomass (Chlorophyll a)	monthly	deleted
Iron	quarterly	semiannually
Fluoride	monthly	semiannually
Antimony	quarterly	semiannually
Arsenic	quarterly	semiannually
Beryllium	quarterly	semiannually
Cadmium	quarterly	semiannually
Chromium III	quarterly	semiannually
Chromium VI	quarterly	semiannually

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Parameter	Monitoring Frequency (2003 Permit)	Monitoring Frequency (2014 Permit)
Copper	quarterly	monthly
Lead	quarterly	semiannually
Mercury	quarterly	monthly
Nickel	quarterly	monthly
Selenium	quarterly	semiannually
Silver	quarterly	semiannually
Thallium	semiannually	no change
Zinc	quarterly	semiannually
Cyanide	monthly	no change
2,3,7,8-TCDD (Dioxin)	quarterly	semiannually
Bromoform	quarterly	semiannually
Dibromochloromethane	quarterly	semiannually
Chloroform	quarterly	semiannually
Bromodichloromethane	quarterly	semiannually
Tetrachloroethylene	quarterly	semiannually
1,4-dichlorobenzene	quarterly	semiannually
Alpha BHC	semiannually	semiannually
N-Nitrosodi-n-propylamine	semiannually	no change
Gamma-BHC (Lindane)	quarterly	semiannually
Chlordane	quarterly	no change
4,4'-DDT	semiannually	quarterly
4,4'- DDE	monthly	quarterly
4,4'-DDD	monthly	quarterly
Aldrin	semiannually	quarterly
Dieldrin	semiannually	quarterly
Endrin	quarterly	semiannually
Heptachlor epoxide	semiannually	no change
PCBs	semiannually	quarterly
Aroclor 1016	semiannually	quarterly
Aroclor 1221	semiannually	quarterly
Aroclor 1232	semiannually	quarterly
Aroclor 1242	semiannually	quarterly
Aroclor 1248	semiannually	quarterly
Aroclor 1254	monthly	quarterly
Aroclor 1260	semiannually	quarterly
Toxaphene	quarterly	no change
Chlorpyrifos	not monitored	quarterly
Diazinon	not monitored	quarterly
Methoxychlor	quarterly	annually
Barium	quarterly	semiannually
2,4-D	quarterly	annually
2,4,5-TP (Silvex)	quarterly	annually

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Parameter	Monitoring Frequency (2003 Permit)	Monitoring Frequency (2014 Permit)
Total trihalomethanes ³⁵	quarterly	no change
Ammonium perchlorate	anually	no change
1,4-Dioxane	annually	no change
1,2,3-Trichloropropane	annually	no change
Methyl-tert-butyl-ether (MTBE)	semiannually	semiannually
Remaining USEPA priority pollutant not listed on this Table	semiannually	semiannually

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C. WET Requirements

WET testing protects the receiving water quality from the aggregate toxic effect of a mixture of pollutants in the effluent. An acute toxicity test is conducted over a short time period and measures mortality. A chronic toxicity test is conducted over a short or longer period of time and may measure mortality, reproduction, and growth. Chronic toxicity is a more stringent requirement than acute toxicity. A chemical at a low concentration can have chronic effects but no acute effects until it get to the higher level. For this permit, chronic toxicity in the discharge is evaluated using USEPA’s 2010 Test of Significant Toxicity (TST) hypothesis testing approach. The chronic toxicity effluent limitations are as stringent as necessary to protect the narrative Basin Plan Water Quality Objective for chronic toxicity. Those limitations are also consistent with the assumptions of the *Calleguas Creek Toxicity TMDL* which went into effect on March 24, 2006, and the implementation language which reads as follows: “The toxicity WLAs will be implemented in accordance with USEPA, State Board and Regional Board resolutions, **guidance** (emphasis added) and policy at the time of permit issuance or renewal.” The rationale for WET has been discussed extensively in section IV.C.5 of this Fact Sheet.

D. Receiving Water Monitoring

1. Surface Water

Receiving water monitoring is required to determine compliance with receiving water limitations and to characterize the water quality of the receiving water.

2. Groundwater – (Not Applicable)

E. Other Monitoring Requirements

1. Watershed Monitoring and Bioassessment Monitoring

The goals of the Watershed-wide Monitoring Program including the bioassessment monitoring for the North Fork Arroyo Conejo Watershed are to:

- Determine compliance with receiving water limits;
- Monitor trends in surface water quality;
- Ensure protection of beneficial uses;
- Provide data for modeling contaminants of concern;

³⁵ Total trihalomethanes shall mean the sum of bromoform, bromodichloromethane, chloroform, and dibromochloromethane.

- Characterize water quality including seasonal variation of surface waters within the watershed;
- Assess the health of the biological community; and,
- Determine mixing dynamics of effluent and receiving waters in the estuary.

VIII. Consideration of Need to Prevent Nuisance and California Water Code Section 13241 Factors.

Some of the provisions/requirements in this Order are included to implement state law only. These provisions/requirements are not required or authorized under the federal CWA; consequently, violations of these provisions/requirements are not subject to the enforcement remedies that are available for NPDES violations. As required by CWC section 13263, the Regional Water Board has considered the need to prevent nuisance and the factors listed in CWC section 13241 in establishing the state law provisions/requirements. The Regional Water Board finds, on balance, that the state law requirements in this Order are reasonably necessary to prevent nuisance and to protect beneficial uses identified in the Basin Plan, and the section 13241 factors are not sufficient to justify failing to protect those beneficial uses.

- A.** Need to prevent nuisance: The state law requirements in this Order are required to prevent pollution or nuisance as defined in section 13050, subdivisions (l) and (m), of the CWC. Many are also required in accordance with narrative water quality objectives in the Basin Plan. These state requirements include, but are not limited to, groundwater limitations, spill prevention plans, operator certification, sanitary sewer overflow reporting, and requirements for standby or emergency power.
- B.** Past, present, and probable future beneficial uses of water: Chapter 2 of the Basin Plan identifies designated beneficial uses for water bodies in the Los Angeles Region. Beneficial uses of water relevant to this Order are also identified above in Section III.C.1.
- C.** Environmental characteristics of the hydrographic unit under consideration, including the quality of water available thereto: The environmental characteristics are discussed in the Region's Watershed Management Initiative Chapter, as well as available in State of the Watershed reports and the State's CWA Section 303(d) List of impaired waters. The environmental characteristics of the hydrographic unit, including the quality of available water, will be improved by compliance with the requirements of this Order. Additional information on the CCW is available at http://www.waterboards.ca.gov/losangeles/water_issues/programs/regional_program/Water_Quality_and_Watersheds/ws_calleguas.shtml
- D.** Water quality conditions that could reasonably be achieved through the coordinated control of all factors which affect water quality in the area: The beneficial uses of the waterbodies in the CCW can reasonably be achieved through the coordinate control of all factors that affect water quality in the area. TMDLs have been developed (as required by the Clean Water Act) for many of the impairments in the watershed. A number of Regional Water Board programs and actions are in place to address the water quality impairments in the watershed, including regulation of point source municipal and industrial discharges with appropriate NPDES permits and non-point source discharges such as irrigated agriculture. All of these regulatory programs control the discharge of pollutants to surface and ground waters to prevent nuisance and protect beneficial uses. These regulatory programs have resulted in watershed solutions and have improved water quality. Generally, improvements in the quality of the receiving waters impacted by the permittee's discharges can be achieved by

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reducing the volume of discharges to receiving waters (e.g., through increased recycling), reducing pollutant loads through source control/pollution prevention, including operational source control such as public education (e.g., disposal of pesticides, pharmaceuticals, and personal care products into the sewer) and product or materials elimination or substitution, and removing pollutants through treatment.

- E. Economic considerations: The Permittee did not present any evidence regarding economic considerations related to this Order. However, the Regional Water Board has considered the economic impact of requiring certain provisions pursuant to state law. The additional costs associated with complying with state law requirements are reasonably necessary to prevent nuisance and protect beneficial uses identified in the Basin Plan. Further, the loss of, or impacts to, beneficial uses would have a detrimental economic impact. Economic considerations related to costs of compliance are therefore not sufficient, in the Regional Water Board's determination, to justify failing to prevent nuisance and protect beneficial uses

- F. Need for developing housing within the region: The Regional Water Board has no evidence regarding the need for developing housing within the region or how the Permittee's discharge will affect that need. The Regional Water Board, however, does not anticipate that these state law requirements will adversely impact the need for housing in the area. The region generally relies on imported water to meet many of its water resource needs. Imported water makes up a vast majority of the region's water supply, with local groundwater, local surface water, and reclaimed water making up the remaining amount. This Order helps address the need for housing by controlling pollutants in discharges, which will improve the quality of local surface and ground water, as well as water available for recycling and re-use. This in turn may reduce the demand for imported water thereby increasing the region's capacity to support continued housing development. A reliable water supply for future housing development is required by law, and with less imported water available to guarantee this reliability, an increase in local supply is necessary. Therefore, the potential for developing housing in the area will be facilitated by improved water quality.

- G. Need to develop and use recycled water: The State Water Board's Recycled Water Policy requires the Regional Water Boards to encourage the use of recycled water. In addition, as discussed immediately above, a need to develop and use recycled water exists within the region, especially during times of drought. To encourage recycling, the Permittee is required by this Order to continue to explore the feasibility of recycling to maximize the beneficial reuse of tertiary treated effluent.

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VIII.IX. PUBLIC PARTICIPATION

The Regional Water Board has considered the issuance of WDRs that will serve as an NPDES permit for Hill Canyon WWTP. As a step in the WDR adoption process, the Regional Water Board staff has developed tentative WDRs and has encouraged public participation in the WDR adoption process.

A. Notification of Interested Parties

The Regional Water Board notified the Permittee and interested agencies and persons of its intent to prescribe WDRs for the discharge and provided an opportunity to submit written comments and recommendations. Notification was provided through the following: public notice in daily newspaper <**Describe Notification Process (e.g., newspaper name and date)**>.

The public had access to the agenda and any changes in dates and locations through the Regional Water Board's website at: <http://www.waterboards.ca.gov/losangeles/>.

B. Written Comments

Interested persons were invited to submit written comments concerning tentative WDRs as provided through the notification process. Comments were due either in person or by mail to the Executive Office at the Regional Water Board at the address above on the cover page of this Order, or by email submitted to losangeles@waterboards.ca.gov.

To be fully responded to by staff and considered by the Regional Water Board, the written comments were due at the Regional Water Board office by 5:00 p.m. on April ~~1413~~, 2014.

C. Public Hearing

The Regional Water Board held a public hearing on the tentative WDRs during its regular Board meeting on the following date and time and at the following location:

Date: May 8, 2014
Time: 9:00 a.m.
Location: City of Simi Valley, Council Chambers
2929 Tapo Canyon Road
Simi Valley, California

Interested persons were invited to attend. At the public hearing, the Regional Water Board heard testimony pertinent to the discharge, WDRs, and permit. For accuracy of the record, important testimony was requested in writing.

D. Reconsideration of Waste Discharge Requirements

Any aggrieved person may petition the State Water Board to review the decision of the Regional Water Board regarding the final WDRs. The petition must be received by the State Water Board at the following address within 30 calendar days of the Regional Water Board's action:

State Water Resources Control Board
Office of Chief Counsel
P.O. Box 100, 1001 I Street
Sacramento, CA 95812-0100

For instructions on how to file a petition for review, see http://www.waterboards.ca.gov/public_notices/petitions/water_quality/wqpetition_instr.shtml

E. Information and Copying

The ROWD, other supporting documents, and comments received are on file and may be inspected at the address above at any time between 8:30 a.m. and 4:45 p.m., Monday through Friday. Copying of documents may be arranged through the Regional Water Board by calling (213) 576-6600.

F. Register of Interested Persons

Any person interested in being placed on the mailing list for information regarding the WDRs and NPDES permit should contact the Regional Water Board, reference this facility, and provide a name, address, and phone number.

G. Additional Information

Requests for additional information or questions regarding this order should be directed to Veronica Cuevas at (213) 576-6662.

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ATTACHMENT G – TOXICITY REDUCTION EVALUATION (TRE) WORK PLAN

INFORMATION AND DATA ACQUISITION

A. Operations and performance review

1. NPDES permit requirements
 - a. Effluent limitations
 - b. Special conditions
 - c. Monitoring data and compliance history
2. POTW design criteria
 - a. Hydraulic loading capacities
 - b. Pollutant loading capacities
 - c. Biodegradation kinetics calculations/assumptions
3. Influent and effluent conventional pollutant data
 - a. Biochemical oxygen demand (BOD5)
 - b. Chemical oxygen demand (COD)
 - c. Suspended solids (SS)
 - d. Ammonia
 - e. Residual chlorine
 - f. pH
4. Process control data
 - a. Primary sedimentation - hydraulic loading capacity and BOD and SS removal
 - b. Activated sludge - Food-to-microorganism (F/M) ratio, mean cell residence time (MCRT), mixed liquor suspended solids (MLSS), sludge yield, and BOD and COD removal
 - c. Secondary clarification - hydraulic and solids loading capacity, sludge volume index and sludge blanket depth
5. Operations information
 - a. Operating logs
 - b. Standard operating procedures
 - c. Operations and maintenance practices
6. Process sidestream characterization data
 - a. Sludge processing sidestreams
 - b. Tertiary filter backwash
 - c. Cooling water
7. Combined sewer overflow (CSO) bypass data
 - a. Frequency

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- b. Volume
- 8. Chemical coagulant usage for wastewater treatment and sludge processing
 - a. Polymer
 - b. Ferric chloride
 - c. Alum

B. POTW influent and effluent characterization data

- 1. Toxicity
- 2. Priority pollutants
- 3. Hazardous pollutants
- 4. SARA 313 pollutants,
- 5. Other chemical-specific monitoring results

C. Sewage residuals (raw, digested, thickened and dewatered sludge and incinerator ash) characterization data

- 1. EP toxicity
- 2. Toxicity Characteristic Leaching Procedure (TCLP)
- 3. Chemical analysis

D. Industrial waste survey (IWS)

- 1. Information on IUs with categorical standards or local limits and other significant non-categorical IUs
- 2. Number of IUs
- 3. Discharge flow
- 4. Standard Industrial Classification (SIC) code
- 5. Wastewater flow
 - a. Types and concentrations of pollutants in the discharge
 - b. Products manufactured
- 6. Description of pretreatment facilities and operating practices
- 7. Annual pretreatment report
- 8. Schematic of sewer collection system

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9. POTW monitoring data
 - a. Discharge characterization data
 - b. Spill prevention and control procedures
 - c. Hazardous waste generation
10. IU self-monitoring data
 - a. Description of operations
 - b. Flow measurements
 - c. Discharge characterization data
 - d. Notice of sludge loading
 - e. Compliance schedule (if out of compliance)
11. Technically based local limits compliance reports
12. Waste hauler monitoring data manifests
13. Evidence of POTW treatment interferences (i.e., biological process inhibition)

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ATTACHMENT H – BIOSOLIDS AND SLUDGE MANAGEMENT

BIOSOLIDS USE AND DISPOSAL REQUIREMENTS

- A. All biosolids generated by the Permittee shall be reused or disposed of in compliance with the applicable portions of:
 - 1. 40 CFR part 503: for biosolids that are land applied, placed in surface disposal sites (dedicated land disposal sites or monofills), or incinerated; 40 CFR part 503 Subpart B (land application) applies to biosolids placed on the land for the purpose of providing nutrients or conditioning the soil for crops or vegetation. 40 CFR part 503 Subpart C (surface disposal) applies to biosolids placed on the land for the purpose of disposal.
 - 2. 40 CFR part 258: for biosolids disposed of in Municipal Solid Waste landfills.
 - 3. 40 CFR part 257: for all biosolids disposal practices not covered under 40 CFR part 258 or 503.
- B. The Permittee is responsible for assuring that all biosolids from its facility are used or disposed of in accordance with 40 CFR part 503, whether the Permittee reuses or disposes of the biosolids itself or transfers them to another party for further treatment, reuse, or disposal. The Permittee is responsible for informing subsequent preparers, applicers, or disposers of the requirements they must meet under 40 CFR part 503.
- C. Duty to mitigate: The Permittee shall take all reasonable steps to prevent or minimize any biosolids use or disposal which may adversely impact human health or the environment.
- D. No biosolids shall be allowed to enter wetland or other waters of the United States.
- E. Biosolids treatment, storage, and use or disposal shall not contaminate groundwater.
- F. Biosolids treatment, storage, and use or disposal shall not create a nuisance such as objectionable odors or flies.
- G. The Permittee shall assure that haulers who transport biosolids off site for further treatment, storage, reuse, or disposal take all necessary measures to keep the biosolids contained.
- H. If biosolids are stored for over two years from the time they are generated, the Permittee must ensure compliance with all the requirements for surface disposal under 40 CFR part 503 Subpart C, or must submit a written request to USEPA with the information in 40 CFR section 503.20(b), requesting permission for longer temporary storage.
- I. Sewage sludge containing more than 50 mg/kg PCB's shall be disposed of in accordance with 40 CFR part 761.
- J. Any off-site biosolids treatment, storage, use or disposal site operated by the Permittee within Region 4 (Los Angeles Region of RWQCB) that is not subject to its own Waste Discharge Requirements shall have facilities adequate to divert surface runoff from the adjacent area, to

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protect the site boundaries from erosion, and to prevent any conditions that would cause drainage from the materials in the disposal site to escape from the site. Adequate protection is defined as protected from at least a 100-year storm and from the highest tidal stage that may occur.

- K. Inspection and Entry:** The Regional Water Board, USEPA or an authorized representative thereof, upon the presentation of credentials, shall be allowed by the Permittee, directly or through contractual arrangements with their biosolids management contractors, to:
1. enter upon all premises where biosolids are produced by the Permittee and all premises where Permittee biosolids are further treated, stored, used, or disposed, either by the Permittee or by another party to whom the Permittee transfers the biosolids for further treatment, storage, use, or disposal;
 2. have access to and copy any records that must be kept under the conditions of this permit or of 40 CFR part 503, by the Permittee or by another party to whom the Permittee transfers the biosolids for further treatment, storage, use, or disposal; and
 3. inspect any facilities, equipment (including monitoring and control equipment), practices, or operations used in the production of biosolids and further treatment, storage, use, or disposal by the Permittee or by another party to whom the Permittee transfers the biosolids for further treatment, storage, use, or disposal.

L. Monitoring shall be conducted as follows:

1. Biosolids shall be tested for the metals required in part 503.16 (for land application) or part 503.26 (for surface disposal), using the methods in "Test Methods for Evaluating Solids Waste, Physical/Chemical Methods" (SW-846), as required in 503.8(b)(4), at the following minimum frequencies:

<u>Volume (dry metric tons/year)</u>	<u>Frequency</u>
0 – 290	once per year
290 – 1500	once per quarter
1500 – 15000	once per 60 days
> 15000	once per month

For accumulated, previously untested biosolids, the Discharge shall develop a representative sampling plan, which addresses the number and location of sampling points, and collect representative samples.

Test results shall be expressed in mg pollutant per kg biosolids on a 100% dry weight basis.

Biosolids to be land applied shall be tested for Organic-N, ammonium-N, and nitrate-N at the frequencies required above.

2. Prior to land application, the Permittee shall demonstrate that the biosolids meet Class A or Class B pathogen reduction levels by one of the methods listed in 40 CFR section 503.32. Prior to disposal in a surface disposal site, the Permittee shall demonstrate that the biosolids meet Class B levels or shall ensure that the site is covered at the end of each operating day.

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3. For biosolids that are land applied or placed in a surface disposal site, the Permittee shall track and keep records of the operational parameters used to achieve Vector Attraction Reduction requirements in 40 CFR § 503.33 (b).
 4. Class 1 facilities (facilities with pretreatment programs or others designated as Class 1 by the Regional Administrator) and Federal facilities with > 5 mgd influent flow shall sample biosolids for pollutants listed under section 307 (a) of the Act (as required in the pretreatment section of the permit for POTWs with pretreatment programs.) Class 1 facilities and Federal Facilities with > 5 mgd influent flow shall test dioxins/dibenzofurans using a detection limit of < 1 pg/g during their next sampling period if they have not done so within the past 5 years and once per 5 years thereafter.
 5. The biosolids shall be tested annually or more frequently if necessary to determine hazardousness in accordance with California Law.
 6. If biosolids are placed in a surface disposal site (dedicated land disposal site or monofill), a qualified groundwater scientist shall develop a groundwater monitoring program for the site, or shall certify that the placement of biosolids on the site will not contaminate an aquifer.
 7. Biosolids placed in a municipal landfill shall be tested semi-annually by the Paint Filter Test (SW-846, Method 9095) to demonstrate that there are no free liquids.
- M.** The Permittee either directly or through contractual arrangements with their biosolids management contractors shall comply with the following 40 CFR part 503 notification requirements:
8. A reuse/disposal plan shall be submitted to USEPA Region IX Coordinator and, in the absence of other state or regional reporting requirements, to the state permitting agency, prior to the use or disposal of any biosolids from this facility to a new or previously unreported site. The plan shall be submitted by the land applier of the biosolids and shall include, a description and a topographic map of the proposed site(s) for reuse or disposal, names and addresses of the applier(s) and site owner(s), and a list of any state or local permits which must be obtained. For land application sites, the plan shall include a description of the crops or vegetation to be grown, proposed nitrogen loadings to be used for the crops, and a groundwater monitoring plan if one exists.
 9. If the Permittee biosolids do not meet 40 CFR § 503.13 Table 3 metals concentration limits, the Permittee must require their land applier to contact the state permitting authority to determine whether bulk biosolids subject to the cumulative pollutant loading rates in 40 CFR § 503.12(b)(2) have been applied to the site since July 20, 1993, and, if so, the cumulative amount of pollutants applied to date, and background concentration, if known. The Permittee shall then notify USEPA Region IX Coordinator of this information.

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10. For biosolids that are land applied, the Permittee shall notify the applier in writing of the nitrogen content of the biosolids, and the applier's requirements under 40 CFR part 503, including the requirements that the applier certify that the requirement to obtain information in Subpart A, and that the management practices, site restrictions, and any applicable vector attraction reduction requirements Subpart D have been met. The Permittee shall require the applier to certify at the end of 38 months following application of Class B biosolids that those harvesting restrictions in effect for up to 38 months have been met.
 11. If bulk biosolids are shipped to another State or to Indian Lands, the Permittee must send written notice prior to the initial application of bulk biosolids to the permitting authorities in the receiving State or Indian Land (the USEPA Regional Office for the area and the State/Indian authorities).
 12. Notification of 40 CFR part 503 non-compliance: The Permittee shall require appliers of their biosolids to notify USEPA Region 9 and their state permitting agency of any noncompliance within 24 hours if the non-compliance may seriously endanger health or the environment. For other instances of non-compliance, the Permittee shall require appliers of their biosolids to notify USEPA Region 9 and their state permitting agency of the non-compliance in writing within 10 working days of becoming aware of the non-compliance.
- N.** The Permittee shall submit an annual biosolids report to USEPA Region IX Biosolids Coordinator and the Los Angeles Regional Water Quality Control Board by February 19 of each year for the period covering the previous calendar year. The report shall include:
1. The amount of biosolids generated that year, in dry metric tons, and the amount accumulated from previous years.
 2. Results of all pollutant monitoring required in the Monitoring Section above.
 3. Descriptions of pathogen reduction methods, and vector attraction reduction methods, as required in 40 CFR sections 503.17 and 503.27.
 4. Results of any groundwater monitoring or certification by groundwater scientist that the placement of biosolids in a surface disposal site will not contaminate an aquifer.
 5. Names and addresses of land appliers and surface disposal site operators, and volumes applied (dry metric tons).
 6. Names and addresses of persons who received biosolids for storage, further treatment, disposal in a municipal waste landfill, or for other reuse/disposal methods not covered in N.3, above, and volumes delivered to each.
- O.** The Permittee shall require all parties contracted to manage their biosolids to submit an annual biosolids report to USEPA Region IX Biosolids Coordinator by February 19 of each year for the period covering the previous calendar year. The report shall include:
1. Names and addresses of land appliers and surface disposal site operators, name, location (latitude/longitude), and size (hectares) of site(s), volumes applied/disposed (dry metric tons) and for land application, biosolids loading rates (metric tons per hectare),

nitrogen loading rates (kg/ha), dates of applications, crops grown, dates of seeding and harvesting and certifications that the requirement to obtain information in 40 CFR § 503.12(e)(2), management practices in part 503.14 and site restrictions in part 503.32(b)(5) have been met.

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ATTACHMENT I – PRETREATMENT REPORTING REQUIREMENTS

The City of Thousand Oaks (Discharger, Permittee or City) is required to submit annual Pretreatment Program Compliance Report (Report) to the Regional Water Board and United States Environmental Protection Agency, Region 9 (USEPA). This Attachment outlines the minimum reporting requirements of the Report. If there is any conflict between requirements stated in this attachment and provisions stated in the Waste Discharge Requirements (WDR), those contained in the WDR will prevail.

A. Pretreatment Requirements

1. The Permittee shall be responsible and liable for the performance of all Control Authority pretreatment requirements contained in 40 CFR part 403, including any subsequent regulatory revisions to part 403. Where part 403 or subsequent revision places mandatory actions upon the Permittee as Control Authority but does not specify a timetable for completion of the actions, the Permittee shall complete the required actions within six months from the issuance date of this permit or the effective date of the part 403 revisions, whichever comes later. For violations of pretreatment requirements, the Permittee shall be subject to enforcement actions, penalties, fines and other remedies by the USEPA or other appropriate parties, as provided in the Act. USEPA may initiate enforcement action against a nondomestic user for noncompliance with applicable standards and requirements as provided in the act.
2. The Permittee shall enforce the requirements promulgated under sections 307(b), 307(c), 307(d) and 402(b) of the Act with timely, appropriate and effective enforcement actions. The Permittee shall cause all nondomestic users subject to federal categorical standards to achieve compliance no later than the date specified in those requirements or, in the case of a new nondomestic user, upon commencement of the discharge.
3. The Permittee shall perform the pretreatment functions as required in 40 CFR part 403 including, but not limited to:
 - a. Implement the necessary legal authorities as provided in 40 CFR § 403.8(f)(1);
 - b. Enforce the pretreatment requirements under 40 CFR sections 403.5 and 403.6;
 - c. Implement the programmatic functions as provided in 40 CFR § 403.8(f)(2); and
 - d. Provide the requisite funding and personnel to implement the pretreatment program as provided in 40 CFR § 403.8(f)(3).
4. The Permittee shall submit annually a report to USEPA Pacific Southwest Region, and the State describing its pretreatment activities over the previous year. In the event the City is not in compliance with any conditions or requirements of this permit, then the City shall also include the reasons for noncompliance and state how and when the City shall comply with such conditions and requirements. This annual report shall cover operations from January 1 through December 31 and is due on ~~March 1~~ April 15 of each year. The report shall contain, but not be limited to, the following information:

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- a. A summary of analytical results from representative, flow proportioned, 24-hour composite sampling of the publicly-owned treatment works (POTW) influent and effluent for those pollutants USEPA has identified under section 307(a) of the Act which are known or suspected to be discharged by nondomestic users. This will consist of an annual full priority pollutant scan, with quarterly samples analyzed only for those pollutants detected in the full scan. The City is not required to sample and analyze for asbestos. Sludge sampling and analysis are covered in the sludge section of this permit. The City shall also provide any influent or effluent monitoring data for nonpriority pollutants which the City believes may be causing or contributing to interference or pass through. Sampling and analysis shall be performed with the techniques prescribed in 40 CFR part 136;
- b. A discussion of Upset, Interference or Pass Through incidents, if any, at the treatment plant which the City knows or suspects were caused by nondomestic users of the POTW system. The discussion shall include the reasons why the incidents occurred, the corrective actions taken and, if known, the name and address of the nondomestic user(s) responsible. The discussion shall also include a review of the applicable pollutant limitations to determine whether any additional limitations, or changes to existing requirements, may be necessary to prevent pass through or interference;
- c. An updated list of the City's significant industrial users (SIUs) including their names and addresses, and a list of deletions, additions and SIU name changes keyed to the previously submitted list. The City shall provide a brief explanation for each change. The list shall identify the SIUs subject to federal categorical standards by specifying which set(s) of standards are applicable to each SIU. The list shall also indicate which SIUs are subject to local limitations;
- d. The City shall characterize the compliance status of each SIU by providing a list or table which includes the following information:
 - i. Name of the SIU;
 - ii. Category, if subject to federal categorical standards;
 - iii. The type of wastewater treatment or control processes in place;
 - iv. The number of samples taken by the POTW during the year;
 - v. The number of samples taken by the SIU during the year;
 - vi. For an SIU subject to discharge requirements for total toxic organics, whether all required certifications were provided;
 - vii. A list of the standards violated during the year. Identify whether the violations were for categorical standards or local limits;
 - viii. Whether the facility is in significant noncompliance (SNC) as defined at 40 CFR § 403.8(f)(2)(viii) at any time during the year; and
 - ix. A summary of enforcement or other actions taken during the year to return the SIU to compliance. Describe the type of action, final compliance date, and the amount of fines and penalties collected, if any. Describe any proposed actions for bringing the SIU into compliance.
- e. A brief description of any programs the POTW implements to reduce pollutants from nondomestic users that are not classified as SIUs;

- f. A brief description of any significant changes in operating the pretreatment program which differ from the previous year including, but not limited to, changes concerning the program's administrative structure, local limits, monitoring program or monitoring frequencies, legal authority, enforcement policy, funding levels, or staffing levels;
- g. A summary of the annual pretreatment budget, including the cost of pretreatment program functions and equipment purchases; and
- h. A summary of activities to involve and inform the public of the program including a copy of the newspaper notice, if any, required under 40 CFR § 403.8(f)(2)(viii).

B. LOCAL LIMITS EVALUATION

- 1. In accordance with 40 CFR § 122.44(j)(2)(ii), the POTW shall provide a written technical evaluation of the need to revise local limits under 40 CFR § 403.5(c)(1) within 180 days of issuance or reissuance of the NPDES permit.

C. SIGNATORY REQUIREMENTS AND REPORT SUBMITTAL

- 1. Signatory Requirements.

The annual report must be signed by a principal executive officer, ranking elected official or other duly authorized employee if such employee is responsible for the overall operation of the POTW. Any person signing these reports must make the following certification [40 CFR § 403.6(a)(2)(ii)]:

I certify under penalty of law that this document and all attachments were prepared under my direction or 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.

- 2. Report Submittal.

An original copy of the Annual Report must be sent to the Pretreatment Program Coordinator of the Regional Water Board and the duplicate copies of the Report must be sent to USEPA through the following addresses:

Information and Technology Unit
Attn: Pretreatment Program Coordinator
California Regional Water Quality Control Board, Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, CA 90013

Pretreatment Program
CWA Compliance Office (WTR-7)
Water Division
U.S. Environmental Protection Agency, Region IX

CITY OF THOUSAND OAKS
HILL CANYON WASTEWATER TREATMENT PLANT

ORDER R4-2014-XXXX
NPDES NO. CA0056294

75 Hawthorne Street
San Francisco, CA 94105-3901

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