CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

COLORADO RIVER BASIN REGION

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ORDER R7-2010-0021 **NPDES NO. CA0104493**

WASTE DISCHARGE REQUIREMENTS FOR CITY OF COACHELLA AND COACHELLA SANITARY DISTRICT, COACHELLA SANITARY DISTRICT WASTEWATER TREATMENT PLANT

The following Discharger is subject to Waste Discharge Requirements (WDRs) as set forth in this Order:

Table 1. Discharger Information

Discharger	City of Coachella and the Coachella Sanitary District				
Name of Facility	Coachella Sanitary District Wastewater Treatment Plant				
Facility Address	87-075 Avenue 54				
	Coachella, CA 92236				
	Riverside County				
The U.S. Environmental Protection Agency (USEPA) and the Regional Water Quality Control Board ha classified this discharge as a major discharge.					

The discharge by the Coachella Sanitary District Wastewater Treatment Plant from the discharge point identified below is subject to WDRs as set forth in this Order:

Table 2. Discharge Location

Discharge	Effluent	Discharge Point	Discharge Point	Receiving Water
Point	Description	Latitude	Longitude	
001	Treated Municipal Wastewater	33°, 39', 20" N	116 °, 08', 31" W	Coachella Valley Storm Water Channel

Table 3. Administrative Information

This Order was adopted by the Regional Water Quality Control Board on:	June 17, 2010
This Order shall become effective on:	June 17, 2010
This Order shall expire on:	June 16, 2015
The Discharger shall file a Report of Waste Discharge in accordance with title 23, California Code of Regulations, as application for issuance of new waste discharge requirements no later than:	December 18, 2014

I, Robert Perdue, Executive Officer, do hereby certify that this Order with all attachments is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Colorado River Basin Region, on June 17, 2010.

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Robert Perdue, Executive Officer

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I. FACILITY INFORMATION

The following Discharger is subject to WDRs as set forth in this Order:

Discharger	City of Coachella and the Coachella Sanitary District			
Name of Facility	Coachella Sanitary District Wastewater Treatment Plant			
	87-075 Avenue 54			
Facility Address	Coachella, CA 92236			
	Riverside County			
Facility Contact, Title, and	Jerry Jimenez, Superintendent			
Phone	(760) 391 - 5008			
Mailing Address	1515 Sixth Street, Coachella, CA 92236			
Type of Facility	Publicly Owned Treatment Works (POTW)			
Facility Design Flow	4.5 million gallons per day (MGD)			

Table 4. Facility Information

II. FINDINGS

The California Regional Water Quality Control Board, Colorado River Basin Region (hereinafter Regional Water Board), finds:

A. Background. The City of Coachella and the Coachella Sanitary District (hereinafter Discharger) is currently discharging pursuant to Order R7-2005-0083 and National Pollutant Discharge Elimination System (NPDES) Permit No. CA0104493. The Discharger submitted a Report of Waste Discharge (ROWD) dated December 30, 2009, and applied for a NPDES permit renewal discharge of up to 4.5 MGD of treated wastewater from the Coachella Sanitary District Wastewater Treatment Plant, hereinafter Facility. Supplemental information was requested on February 5, 2010 and was received on April 5, 2010. The application was deemed complete on April 7, 2010. A site visit was conducted on December 9, 2009, to observe operations and collect additional data to develop permit limitations and conditions.

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 Discharger herein.

B. Facility Description. The Discharger owns and operates a municipal wastewater treatment plant. Treatment consists of screenings and grit removal equipment, two separate secondary treatment process trains including contact stabilization tanks (activated sludge treatment) and oxidation ditches, which operate in parallel, and disinfection facilities. The secondary treated effluent is then disinfected with sodium hypochlorite and dechlorinated with sodium bisulfite. The total design capacity of the wastewater treatment plant is 4.5 MGD. Wastewater is discharged from Discharge Point 001 (see Table 2 on cover page) to the Coachella Valley Storm Water Channel, a water of the United States. Attachment B provides a map of the area around the Facility. Attachment C provides a flow schematic of the Facility.

Raw wastewater from the lift station passes through a mechanical fine screen where screenings are removed. The removed screenings are dumped into a hopper where they are washed, compacted/dewatered, and then conveyed to a bagging area where they are collected and disposed balance of.

To maintain the proper solids, as the solids concentration builds in the CST tanks, a portion of the settled sludge is removed from the bottom of the clarifiers via sludge wasting pumps which pump the sludge to the lined/unlined drying beds on the south end of the plant. The unlined beds are rotated when full and the solids are sun and air dried. Then they are disked in place (incorporated into the soil) (as per the approval of the EPA). The lined beds are rotated when full and the solids are sun and air dried. Then they are collected to a stock pile bed, further dried and disposed of by an approved solids disposal hauler.

To maintain the proper solids balance, as the solids concentration builds in the Oxidation ditch tanks, a portion of the settled sludge is removed from the bottom of the clarifiers via sludge wasting pumps which pump the sludge to the lined drying beds on the south end of the plant. The lined beds are rotated when full and the solids are sun

and air dried. Then they are collected to a stock pile bed, further dried and disposed of by an approved solids disposal hauler.

- **C. Legal Authorities.** This Order is issued pursuant to section 402 of the federal Clean Water Act (CWA) and implementing regulations adopted by the U.S. Environmental Protection Agency (USEPA) and Chapter 5.5, Division 7 of the California Water Code (commencing with section 13370). It shall serve as a NPDES permit for point source discharges from this facility to surface waters. This Order also serves as WDRs pursuant to Article 4, Chapter 4, Division 7 of the Water Code (commencing with section 13260).
- **D.** 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 Order requirements, is hereby incorporated into this Order and constitutes part of the Findings for this Order. Attachments A through E and G through I are also incorporated into this Order.
- **E. California Environmental Quality Act (CEQA).** Pursuant to Water Code section 13389, this action to adopt an NPDES permit is exempt from the provisions of chapter 3 of CEQA, commencing with section 21100 of the Public Resources Code.
- **F. Technology-based Effluent Limitations.** Section 301(b) of the CWA and implementing USEPA regulations at section 122.44, Title 40 of the Code of Federal Regulations¹, require that permits include conditions meeting applicable technology-based requirements at a minimum, and any more stringent effluent limitations necessary to meet applicable water quality standards. The discharge authorized by this Order must meet minimum federal technology-based requirements based on Secondary Treatment Standards at Part 133 and Best Professional Judgment (BPJ) in accordance with Part 125, section 125.3. The Regional Water Board has considered the factors listed in Water Code section 13241 in establishing these requirements. A detailed discussion of the technology-based effluent limitations development is included in the Fact Sheet (Attachment F).
- **G. Water Quality-Based Effluent Limitations.** Section 301(b) of the CWA and section 122.44(d) require that permits include limitations more stringent than applicable federal technology-based requirements where necessary to achieve applicable water quality standards.

Section 122.44(d)(1)(i) mandates 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, water quality-based effluent limitations (WQBELs) must be established using: (1) USEPA criteria guidance under CWA section 304(a), supplemented where

All further regulatory references are to title 40 of the Code of Federal Regulations unless otherwise indicated.

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 section 122.44(d)(1)(vi).

H. Water Quality Control Plans. The Regional Water Board adopted a Water Quality Control Plan for the Colorado River Basin (hereinafter Basin Plan) on November 17, 1993 that designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for all waters addressed through the plan (including amendments adopted by the Regional Water Board to date). In addition, the Basin Plan implements State Water Resources Control Board (State Water Board) Resolution No. 88-63, which established state policy that all waters, with certain exceptions, should be considered suitable or potentially suitable for municipal or domestic supply. Consistent with this state policy, effluent limitations specified in this Order protect existing and potential beneficial uses of the Coachella Valley Storm Water Channel, which are described in Table 5:

Discharge Point	Receiving Water Name	Beneficial Uses
001	Coachella Valley Storm Water Channel ¹	Existing: Fresh Water Replenishment (FRSH); Water Contact Recreation (REC-I) ² ; Non-Contact Water Recreation (REC-II) ² ; Warm Freshwater Habitat (WARM); Wildlife Habitat (WILD); and Support of Rare, Threatened, or Endangered Species (RARE) ³ .

Table 5.	Basin	Plan	Beneficial	Uses
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Section of perennial flow from approximately Indio to the Salton Sea.

² Unauthorized use.

Rare, endangered, or threatened wildlife exists in or utilizes some of these waterway(s). If the RARE beneficial use may be affected by a water quality control decision, responsibility for substantiation of the existence of rare, endangered, or threatened species on a case-by case basis is upon the California Department of Fish and Game on its own initiative and/or at the request of the Regional Water Board; and such substantiation must be provided within a reasonable time frame as approved by the Regional Water Board.

Requirements of this Order implement the Basin Plan.

The immediate receiving water is the Coachella Valley Storm Water Channel. The 2006 USEPA CWA Section 303(d) List classifies segments of the Coachella Valley Storm Water Channel as impaired by pathogens and toxaphene. A TMDL has not yet been developed for toxaphene; however, a TMDL is under development for pathogens.

Finally, the Salton Sea is listed as impaired by: (1) nutrients, (2) salt, and (3) metals (selenium). No TMDLs have been developed to date for the Salton Sea, although a nutrient TMDL is under development. Tributaries to the Salton Sea, including the Coachella Valley Storm Channel and Imperial Valley Drains, may be affected by the nutrient TMDL and any others developed for the Salton Sea. Furthermore, the Basin Plan establishes selenium objectives for tributaries to the Salton Sea.

I. Thermal Plan. The State Water Board adopted the Water Quality Control Plan for Control of Temperature in the Coastal and Interstate Water and Enclosed Bays and Estuaries of California (Thermal Plan) on May 18, 1972, and amended this plan on

September 18, 1975. This plan contains temperature objectives for surface waters. The Thermal Plan does not apply to these objectives to the Coachella Valley Storm Water Channel because agricultural drainage channels do not have a "natural" receiving water temperature.

- **J.** 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 water quality criteria for priority pollutants.
- K. State Implementation Policy. 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.

The Discharger conducted a Biological Assessment at the location of the discharge. The objective of the Biological Assessment was to determine whether water, plant life, and aquatic life at the discharge location are more typical of a saltwater or a freshwater environment. On December 22, 2009, the Discharger submitted the results of the Biological Assessment to USEPA requesting approval to use alternative freshwater criteria at the location of the discharge. The Biological Assessment was conducted at the discharge location into the Coachella Valley Storm Water Channel. Observations were made 100 meters upstream from the outfall and 100 meters downstream from the outfall, regarding habitat characterization, vegetation communities, and wildlife species. According to the Biological Assessment, the dominant vegetation species included the Cottonwood and Willow trees and cattails; cottonwood and willow trees are noted for their sensitivity to saltwater. The Biological Assessment states the presence of freshwater organisms, wildlife associated with riparian areas, and dominant vegetation indicate the Coachella Valley Storm Water Channel is a freshwater ecosystem. Further, the assessment states that no species found in saltwater ecosystems, including those found downstream in the Salton Sea, were present in the channel above or below the location of the discharge. Finally, this assessment noted that the nature of the aquatic ecology observed at the location of the discharge, the dominant riparian vegetation, and the lack of saltwater endemics coupled with historical state and federal classifications of the region support the conclusion that the area surrounding the location of the discharge is classified as a freshwater ecosystem. This assessment determined that the applicable reach of the Coachella Valley Storm Water Channel is characterized as freshwater; therefore, saltwater aquatic life criteria are not applicable for this reach of

the Coachella Valley Storm Water Channel. USEPA reviewed the Biological Assessment prepared by the Discharger. On March 18, 2010, USEPA issued a tentative approval of the findings in the Discharger's Biological Assessment and the application of water quality criteria for the protection of freshwater aquatic life.

- L. Compliance Schedules and Interim Requirements. Section 2.1 of the SIP provides that, based on a Discharger's request and demonstration that it is infeasible for an existing Discharger to achieve immediate compliance with an effluent limitation derived from a CTR criterion, compliance schedules may be allowed in an NPDES permit. Unless an exception has been granted under section 5.3 of the SIP, a compliance schedule may not exceed 5 years from the date that the permit is issued or reissued, nor may it extend beyond 10 years from the effective date of the SIP (or May 18, 2010) to establish and comply with CTR criterion-based effluent limitations. Where a compliance schedule for a final effluent limitation exceeds 1 year, the Order must include interim numeric limitations for that constituent or parameter. Where allowed by the Colorado River Basin Region, compliance schedules and interim effluent limitations or discharge specifications may also be granted to allow time to implement a new or revised water quality objective. This Order includes a compliance schedule and interim effluent limitations that are carried forward from Cease and Desist Order R7-2010-0016.
- M. Alaska Rule. On March 30, 2000, USEPA revised its regulation that specifies when new and revised state and tribal water quality standards (WQS) become effective for CWA purposes. (40 C.F.R. § 131.21; 65 Fed. Reg. 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.
- **N.** Stringency of Requirements for Individual Pollutants. This Order contains both technology-based effluent limitations and water quality-based effluent limitations for individual pollutants. The technology-based effluent limitations consist of restrictions on biochemical oxygen demand (BOD₅), total suspended solids (TSS), oil and grease, and pH. Restrictions on BOD₅, TSS, oil and grease, and pH are discussed in sections IV.B of the Fact Sheet. This Order's technology-based pollutant restrictions implement the minimum, applicable federal technology-based requirements. These limitations are not more stringent than required by the CWA.

Water quality-based effluent limitations (WQBELs) have been scientifically derived to implement water quality objectives that protect beneficial uses. Both the beneficial uses and the water quality objectives 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 section 131.38. The scientific procedures for calculating the individual WQBELs for priority pollutants are based on the CTR-SIP, which was approved by USEPA on May 18, 2000. All beneficial uses and water quality objectives contained in the Basin Plan were approved under state law and submitted to and approved by USEPA prior to May 30, 2000. Any water quality objectives 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 section 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.

- **O. Antidegradation Policy.** Section 131.12 requires that the state water quality standards include an antidegradation policy consistent with the federal policy. The State Water Board established California's antidegradation policy in State Water Board Resolution No. 68-16. Resolution No. 68-16 incorporates the federal antidegradation policy where the federal policy applies under federal law. Resolution No. 68-16 requires that existing quality of waters 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. As discussed in detail in the Fact Sheet, the permitted discharge is consistent with the antidegradation provision of section 131.12 and State Water Board Resolution No. 68-16.
- P. Anti-Backsliding Requirements. Sections 402(o)(2) and 303(d)(4) of the CWA and federal regulations at title 40, Code of Federal Regulations section 122.44(I) 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. Some effluent limitations in this Order are less stringent than those in the previous Order. The effluent limitations for TDS have been revised. Due to the incorrect interpretation of the Basin Plan receiving water quality objectives for TDS as numeric effluent limitations, this Order replaces the numeric effluent limitations for TDS with a narrative effluent limitation and establishes a receiving water limitation for TDS to accurately apply the water quality objectives of the Basin Plan. The replacement of those numeric effluent limitations with a narrative effluent limitation and receiving water limitation for TDS does not constitute backsliding due to the exception contained in Section 402(o)(2)(B)(ii) of the CWA. This Section states that if the Administrator determines that a technical mistake or mistake in interpretation of the law was made when establishing the limits, the appropriate application of those laws is justified. Further, the effluent data were used to conduct a Reasonable Potential Analysis (RPA); the discharge does not demonstrate reasonable potential to exceed water quality objectives for TDS. Therefore, Water Quality Based Effluent Limits are not required for the discharge.

This Board Order revises characterization of the immediate receiving water, the Coachella Valley Storm Water Channel, as a freshwater environment and establishes effluent limitations based on the CTR and SIP freshwater criteria for the discharge. The receiving water designation was determined to be freshwater, and as a result, the saltwater aquatic life criteria are no longer applicable for the reach of the Coachella Valley Storm Water Channel to which the Facility discharges. Therefore, this Board Order revises effluent limitations for copper and zinc based on the revision of applicable water quality criteria (i.e., freshwater). As discussed in the Fact Sheet, this relaxation of effluent limitations. Further, based on consideration of new information (i.e., discharge monitoring data and reasonable potential analysis reflecting revised applicable water quality criteria), this Board Order discontinues effluent limitations for mercury, selenium,

cyanide, heptachlor epoxide, 4,4'-DDT, and 4,4'-DDE because the discharge did not demonstrate a reasonable potential to cause or contribute to an excursion above applicable water quality standards for mercury, selenium, cyanide, heptachlor epoxide, 4,4'-DDT, and 4,4'-DDE. The maximum daily effluent limitation (MDEL) determined during this permit renewal for bis(2-ethylhexyl)phthalate is less stringent than the MDEL established in the existing Board Order (R7-2005-0083), based on the consideration of new information (i.e., discharge monitoring data). As discussed in the Fact Sheet, this relaxation of effluent limitations is consistent with the anti-backsliding requirements of the CWA and federal regulations.

- **Q. Endangered Species Act.** 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 Endangered Species Act (Fish and Game Code Sections 2050 to 2097) or the Federal Endangered Species Act (16 U.S.C. 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. The Discharger is responsible for meeting all requirements of the applicable Endangered Species Act.
- **R. Monitoring and Reporting.** Section 122.48 requires that all NPDES permits specify requirements for recording and reporting monitoring results. Water Code sections 13267 and 13383 authorizes the Regional Water Board to require technical and monitoring reports. The Monitoring and Reporting Program establishes monitoring and reporting requirements to implement federal and State requirements. This Monitoring and Reporting Program is provided in Attachment E.
- **S. Standard and Special Provisions.** Standard Provisions, which apply to all NPDES permits in accordance with section 122.41, and additional conditions applicable to specified categories of permits in accordance with section 122.42, are provided in Attachment D. The Discharger must comply with all standard provisions and with those additional conditions that are applicable under section 122.42. The Regional Water Board has also included in this Order special provisions applicable to the Discharger. A rationale for the special provisions contained in this Order is provided in the attached Fact Sheet.
- **T. Provisions and Requirements Implementing State Law.** The provisions/ requirements in subsections IV.B, IV.C, V.B, and VI.C.4. of 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.
- **U. Notification of Interested Parties.** The Regional Water Board has notified the Discharger and interested agencies and persons of its intent to prescribe Waste Discharge Requirements for the discharge and has provided them with an opportunity to submit their written comments and recommendations. Details of notification are provided in the Fact Sheet of this Order.

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

THEREFORE, IT IS HEREBY ORDERED, that Order No. R7-2005-0083 is rescinded upon the effective date of this Order except for enforcement purposes, and, in order to meet the provisions contained in division 7 of the Water Code (commencing with section 13000) and regulations adopted thereunder, and the provisions of the federal Clean Water Act (CWA) and regulations and guidelines adopted thereunder, the Discharger shall comply with the requirements in this Order.

III. DISCHARGE PROHIBITIONS

- **A.** Bypass, overflow, discharge or spill of untreated or partially treated waste is prohibited.
- **B.** The discharge of waste to land not owned or controlled by the Discharger is prohibited.
- **C.** Discharge of treated wastewater at a location or in a manner different from that described in Findings of this Order is prohibited.
- **D.** Except as allowed under the Standard Provisions for NPDES permits (hereinafter Standard Provisions), included as Attachment D, the bypass or overflow of untreated wastewater or wastes to the Coachella Valley Storm Water Channel is prohibited.
- **E.** The Discharger shall not accept waste in excess of the design treatment or disposal capacity of the system.
- **F.** The discharge shall not cause degradation of any water supply.
- **G.** The treatment or disposal of wastes from the facility shall not cause pollution or nuisance as defined in Section 13050, subdivisions (I) and (m), respectively, of the California Water Code.

IV. EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS

A. Effluent Limitations – Discharge Point 001

- 1. Final Effluent Limitations Discharge Point 001
 - **a.** The Discharger shall maintain compliance with the following effluent for the discharges from the activated sludge treatment system at Discharge Point 001, with compliance measured at Monitoring Location EFF-001A as described in the attached MRP (Attachment E):

Table 6. Summary of Final Effluent Limitations

Parameter	Units	Effluent Limitations			

		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Flow	MGD	1.5				

- i. Percent Removal Activated Sludge Treatment System. The average monthly percent removal of BOD 5-day 20 ℃ and total suspended solids (TSS) shall not be less than 85 percent.
- **b.** The Discharger shall maintain compliance with the following effluent for the discharges from the oxidation ditch treatment system at Discharge Point 001, with compliance measured at Monitoring Location EFF-001B as described in the attached MRP (Attachment E):

Table 7. Summary of Final Effluent Limitations

Parameter				Effluent L	imitations	
	Units	Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Flow	MGD	3.0				

- i. Percent Removal Oxidation Ditch Treatment System. The average monthly percent removal of BOD 5-day 20 ℃ and total suspended solids (TSS) shall not be less than 85 percent.
- **c.** The Discharger shall maintain compliance with the following effluent for the combined discharges from the activated sludge treatment system and oxidation ditch treatment system at Discharge Point 001, with compliance measured at Monitoring Location EFF-001C as described in the attached MRP (Attachment E), except as modified by any applicable Interim Effluent Limitations specified in Section IV.A.2 and Table 9, below:

		Effluent Limitations				
Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Biochemical	mg/L	30	45			
Oxygen Demand (BOD) (5 day @ 20 Deg. C)	lbs/day ¹	1,126	1,689			
Oil and Grease	mg/L			25		
	lbs/day1			938		
рН	standard units				6.0	9.0
Total Suspended Solids (TSS)	mg/L	30	45			
	lbs/day1	1,126	1,689			
Residual Chlorine	mg/L	0.01				0.02
	lbs/day1	0.38				0.75

Table 8. Summary of Final Effluent Limitations

		Effluent Limitations				
Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Copper, Total	μg/L	9.2		19		
Recoverable	lbs/day1	0.35		0.71		
Zinc, Total	μg/L	86		159		
Recoverable	lbs/day1	3.2		6.0		
Bis(2- ethylhexyl)Phthalate	μg/L	5.9		14		
	lbs/day1	0.22		0.52		

¹ The mass-based effluent limitations are based on a design capacity of 4.5 MGD.

- **d.** Toxicity: There shall be no acute or chronic toxicity in the treatment plant effluent nor shall the treatment plant effluent cause any acute or chronic toxicity in the receiving water, as defined in section V of the MRP. All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in human, plant, animal, or indigenous aquatic life. Compliance with this objective will be determined by use of indicator organisms, analyses of species diversity, population density, growth anomalies, or bioassays of appropriate duration or other appropriate methods specified by the Regional Water Board.
- e. Bacteria: The bacterial density in the wastewater effluent discharged to the Coachella Valley Storm Water Channel shall not exceed the following values, as measured by the following bacterial indicators:
 - i. *E. Coli.* The geometric mean bacterial density (based on a minimum of not less than five samples equally spaced over a 30-day period) shall not exceed a Most Probable Number (MPN) of 126 per 100 milliliters, nor shall any sample exceed the maximum allowable bacterial density of a MPN of 400 per 100 milliliters.
 - **ii. Fecal Coliform.** The geometric mean bacterial density (based on a minimum of not less than five samples equally spaced over a 30-day period) shall not exceed a MPN of 200 per 100 milliliters, nor shall more than ten percent of the total samples during any 30-day period exceed a MPN of 400 per 100 milliliters.
- f. Total Dissolved Solids: Discharges of wastes or wastewater shall not increase the total dissolved solids content of receiving waters, unless it can be demonstrated to the satisfaction of the Regional Water Board that such an increase in total dissolved solids does not adversely affect beneficial uses of receiving waters.

2. Interim Effluent Limitations

The Discharger shall maintain compliance with the following interim effluent limitations at Discharge Point 001, with compliance measured at Monitoring Location

EFF-001C as described in the attached MRP. These interim effluent limitations shall apply in lieu of the corresponding final effluent limitations specified for the same parameters during the time period indicated in this provision.

Table 9.	Interim	Effluent	Limitations
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Parameter	Units	Interim Effluent Limitations ¹			
Falameter	Units	Average Monthly	Maximum Daily		
Copper, Total Recoverable	μg/L	12	12		
Copper, Total necoverable	lbs/day	0.45	0.45		
Zinc, Total Recoverable	μg/L	150	150		
	lbs/day	5.6	5.6		

Cease and Desist Order No. R7-2010-0016 established interim effluent limitations for copper and zinc for wastewater discharged to the Coachella Valley Storm Water Channel, and extended the time period the interim effluent limitations are effective. These interim limits have been carried over from that Order and are effective through September 29, 2010.

B. Land Discharge Specifications – Not Applicable

C. Reclamation Specifications – Not Applicable

V. RECEIVING WATER LIMITATIONS

A. Surface Water Limitation

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 the Coachella Valley Storm Water Channel:

- 1. Result in the concentration of dissolved oxygen in the receiving water to fall below 5.0 mg/L. When dissolved oxygen in the receiving water is already below 5.0 mg/L, the discharge shall not cause any further depression.
- 2. Result in the presence of oil, grease, floating material (liquids, solids, foam and scum) or suspended material in amounts that create a nuisance or adversely affect beneficial uses.
- **3.** Result in the deposition of pesticides or combination of pesticides detectable in concentrations that adversely affects beneficial uses.
- 4. Result in discoloration in the receiving water that adversely affects beneficial uses.
- 5. Result in the discharge of biostimulatory substances in concentrations that promote aquatic growths to the extent that such growths cause nuisance or adversely affect beneficial uses.
- 6. Result in an increase of turbidity that adversely affects beneficial uses.
- **7.** Result in the normal ambient pH of the receiving water to fall below 6.0 or exceed 9.0 units.

- 8. Result in altering the natural receiving water temperature that adversely affects beneficial uses.
- **9.** Result in the deposition of material that causes nuisance or adversely affects beneficial uses.
- **10.**Result in the discharge of an individual chemical or combination of chemicals in concentrations that adversely affect beneficial uses.
- **11.**Result in toxic pollutants to be present in the water column, sediments or biota in concentrations that adversely affect beneficial uses or that produce detrimental physiological responses in human, plant, animal, or aquatic life.
- **12.**Result in an increase in taste or odor-producing substances that adversely affect beneficial uses.
- **13.** Result in the violation of any applicable water quality standard for receiving waters adopted by the Regional Water Board or the State Water Board as required by the Federal CWA and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to CWA section 303 or amendments thereto, the Regional Water Board will revise and modify this Permit in accordance with such more stringent standards.
- **14.**Result in the concentration of total dissolved solids in the Coachella Valley Storm Water Channel to exceed an annual average concentration of 2,000 mg/L or a maximum daily concentration of 2,500 mg/L.

B. Groundwater Limitations – Not Applicable

VI. PROVISIONS

A. Standard Provisions

- **1. Federal Standard Provisions.** The Discharger shall comply with all Standard Provisions included in Attachment D of this Order.
- **2. Regional Water Board Standard Provisions.** The Discharger shall comply with the following provisions:
 - **a.** The POTW shall be protected from any washout or erosion of wastes or covering material, and from any inundation, which could occur as a result of floods having a predicted frequency of once in 100 years.
 - **b.** The Discharger shall comply with all conditions of this Order. Noncompliance constitutes a violation of the Federal Clean Water Act and Porter-Cologne Water Quality Control Act, and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification of waste discharge requirements; or denial of a permit renewal application.

- **c.** The Discharger shall ensure that all site-operating personnel are familiar with the content of this Order, and shall maintain a copy of this Order at the site.
- **d.** The Discharger's wastewater treatment plant shall be supervised and operated by persons possessing certification of appropriate grade pursuant to Section 3680, Chapter 26, Division 3, Title 23 of the California Code of Regulations (CCRs). The Discharger shall ensure that all operating personnel are familiar with the contents of this Order.
- e. The Discharger shall immediately notify the Regional Water Board by phone at (760) 346-7491, the local health officer or directors of environmental health with jurisdiction over affected water bodies and the Office of Emergency Services by phone at (800) 852-7550 to report any noncompliance that may endanger human health or the environment as soon as: (1) the Discharger has knowledge of the discharge, (2) notification is possible, and (3) notification can be provided without substantially impeding cleanup or other emergency measures.

Although State and Regional Water Boards do not have duties as first responders, it is important 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. To carry out this objective, the following notification requirements are to be implemented:

- i. For any discharges of sewage that result in a discharge to a drainage channel or surface water, the Discharger shall, as soon as possible, but not later than two (2) hours after becoming aware of the discharge, notify the State Office of Emergency Services, the local health officer or directors of environmental health with jurisdiction over affected water bodies, and the Regional Water Board.
- ii. 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 Discharger 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.
- iii. During non-business hours, the Discharger shall leave a voice message on the Regional Water Board's voice recorder. A written report shall also be provided within five (5) business days of the time the Discharger becomes aware of the incident. The written report shall contain a description of the noncompliance and its cause, the period of noncompliance, the anticipated time to achieve full compliance, and the steps taken or planned, to reduce, eliminate, and prevent recurrence of the noncompliance. The Discharger shall report all intentional or unintentional spills in excess of one thousand (1,000) gallons occurring within the facility or collection system to the Regional Water Board in accordance with the above time limits.

- **f.** The Discharger shall provide a report to the Regional Water Board upon determining that the treatment plant's monthly average flow rate for any month exceeds 80 percent of the design treatment or disposal capacity. The report should indicate what steps, if any the Discharger intends to take to provide for the expected wastewater treatment capacity necessary when the plant reaches design capacity.
- **g.** Prior to any change in ownership or management of this operation, the Discharger shall transmit a copy of this Order to the succeeding owner/operator, and forward a copy of the transmittal letter to the Regional Water Board.
- **h.** Prior to any modifications in this facility, which would result in material change in the quality or, quantity of wastewater treated or discharged, or any material change in the location of discharge, the Discharger shall report all pertinent information in writing to the Regional Water Board and obtain revised requirements before any modifications are implemented.
- i. Adequate measures shall be taken to assure that flood or surface drainage waters do not erode or otherwise render portions of the discharge facilities inoperable.
- **j.** This Order does not authorize violation of any federal, state, or local laws or regulations.
- k. 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 Discharger to administrative or civil liabilities, criminal penalties, and/or other enforcement remedies to ensure compliance. Additionally, certain violations may subject the Discharger to civil or criminal enforcement from appropriate local, state, or federal law enforcement entities.
- I. In the event the Discharger does not comply or will be unable to comply for any reason, with any prohibition, maximum daily, average weekly, average monthly, instantaneous maximum or instantaneous minimum, or receiving water limitation of this Order, the Discharger shall notify the Regional Water Board by telephone (760) 346-7491 within 24 hours of having knowledge of such noncompliance, and shall confirm this notification in writing 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. Other noncompliance requires written notification as above at the time of the normal monitoring report.
- m. In accordance with Section 1211 of the California Water Code, the Discharger shall obtain approval from the State Water Board's Division of 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 watercourse.

B. Monitoring and Reporting Program (MRP) Requirements

The Discharger shall comply with the MRP, and future revisions thereto, in Attachment E of this Order.

C. Special Provisions

1. Reopener Provisions

- a. 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, monitoring requirements on 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.
- **b.** This Order may be modified, rescinded and reissued, for cause. The filing of a request by the Discharger for an Order modification, rescission and reissuance, or a notification of planned changes or anticipated noncompliance does not stay any Order condition. Causes for modification include the promulgation of new regulations, modification of land application plans, or modification in sludge use or disposal practices, or adoption of new regulations by the State Water Board or the Regional Water Board, including revisions to the Basin Plan.
- **c.** The CWA requires the Regional Water Board to modify, or terminate and reissue, the NPDES permit if a discharger must implement a pretreatment program. Public notice and a comment period are mandatory for these actions.
- **d.** This Order may be reopened and the Whole Effluent Toxicity (WET) Requirements, contained in section V of the MRP, may be modified to address changes to USEPA or State Water Board policies or guidance regarding the testing or reporting requirements for WET testing.
- e. If a statewide policy for total residual chlorine is adopted during the term of this Order, this Order may be reopened to include a revised reporting level to determine compliance with effluent limitations for total residual chlorine for low threat discharges consistent with the statewide policy.
- **f.** TMDLs for nutrients, salt, selenium, pathogens, and toxaphene are to be developed by the Regional Water Board. The permit may be reopened and modified to include appropriate requirements necessary to fully implement the approved TMDL, if needed.

2. Special Studies, Technical Reports and Additional Monitoring Requirements

a. Whole Effluent Toxicity Testing. For compliance with the Basin Plan's narrative toxicity objective, this Order requires the Discharger to conduct acute and chronic whole effluent toxicity (WET) testing, as specified in MRP section V.

Furthermore, this Provision requires the Discharger to investigate the causes of, and to identify corrective actions to reduce or eliminate, effluent toxicity. If the discharge exceeds the numeric toxicity monitoring triggers specified in section V.D of the MRP, this Order requires the Discharger to initiate accelerated WET testing. If the discharge exceeds the numeric toxicity monitoring triggers during the accelerated WET testing, the Discharger is required to initiate a Toxicity Reduction Evaluation (TRE) and Toxicity Identification Evaluation (TIE) in accordance with an approved TRE Work Plan. A TRE is a site-specific study conducted in a stepwise process to identify the source(s) of toxicity, evaluate effective control measures for effluent toxicity, and confirm the reduction in effluent toxicity. This Provision includes requirements for the Discharger to develop and submit a TRE Work Plan and, if necessary, initiate accelerated WET testing and a TRE/TIE.

- b. Toxicity Reduction Evaluation (TRE) Work Plan. Within 90 days of the effective date of this Order, the Discharger shall submit to the Regional Water Board a TRE Work Plan for approval by the Executive Officer. The TRE Work Plan shall outline the procedures for identifying the source(s) of, and reducing or eliminating effluent toxicity. The TRE Work Plan must be developed in accordance with USEPA guidance provided in manuals EPA/600/2-88/070 (industrial) or EPA/833B-99/002 (municipal) and be of adequate detail to allow the Discharger to immediately initiate the TRE Work Plan upon notification from the WET testing laboratory of effluent toxicity. This plan shall describe the steps the Discharger intends to follow in the event that toxicity is detected, and should include at a minimum:
 - **i.** Specific actions the Discharger will take to investigate and identify the cause(s) of toxicity, including a TRE/TIE WET monitoring schedule;
 - **ii.** Specific actions the Discharger will take to mitigate the impact of the discharge and prevent the recurrence of toxicity; and
 - iii. A schedule for these actions.
- **c. Translator Study.** Should the Discharger wish to use a translator for selenium other than the default USEPA conversion factors listed in Tables 2 and 3 of the CTR, the Discharger shall submit a written request to the Executive Officer. Otherwise, the USEPA conversion factors shall remain the default standard used when calculating water quality-based effluent limitations for selenium.
- **d.** Total Dissolved Solids Study. The purpose of this study is to provide more detailed information on the Regional Water Board's development of salinity standards pursuant to section 303 of the CWA and through the NPDES permitting authority in the regulation of municipal and industrial sources (see section 402 of the Federal Water Pollution Control Act). As part of the Regional Water Board's development of salinity standards, the Regional Water Board required the Discharger to conduct a study and evaluate what programs and actions the Discharger is implementing to reduce TDS discharges into the

receiving water body. The Discharger submitted the TDS Study (revised March 2010) on April 5, 2010. The Discharger outlined three actions in the addendum to the report:

- i. The City shall identify and study the TDS content of industrial and commercial water users and dischargers. Dischargers should include schools, stores, hospitals, banks, restaurants, and commercial businesses. The City shall develop an action plan to reduce or eliminate further concentration of salts from these sources;
- ii. The City shall review its industrial waste discharge ordinance and make changes to it as required to assure the ordinance has adequate enforcement provisions to prevent high TDS discharges from permitted installations.

The Discharger shall continue to evaluate and implement actions to reduce TDS discharges into the receiving water body. The Discharger shall provide a midterm (July of 2013) update regarding the progress made on its action plan, and a final report shall be submitted to the Regional Water Board's Executive Officer prior to the filing date for re-application. The final report should include revising the original report to update it to the current year, describe the status of the three actions, and provide action items for the next permit cycle.

3. Best Management Practices and Pollution Prevention

a. Pollutant Minimization Program

The Discharger shall develop and conduct a Pollutant Minimization Program (PMP) as further described below when there is evidence (e.g., sample results reported as "Detected, but Not Quantified" (DNQ) when the effluent limitation is less than the Method Detection Limit (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, results of benthic or aquatic organism tissue sampling) that a priority pollutant is present in the effluent above an effluent limitation and either:

- i. A sample result is reported as DNQ and the effluent limitation is less than the RL; or
- **ii.** A sample result is reported as ND and the effluent limitation is less than the MDL, using definitions described in Attachment A and reporting protocols described in MRP section X.B.4.

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 priority pollutant(s), which may include fish tissue monitoring and other bio-uptake sampling;

- **ii.** Quarterly monitoring for the reportable priority 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 priority pollutant(s) in the effluent at or below the effluent limitation;
- **iv.** Implementation of appropriate cost-effective control measures for the reportable priority pollutant(s), consistent with the control strategy; and
- v. An annual status report that shall be sent to the Regional Water Board including:
 - (a) All PMP monitoring results for the previous year;
 - (b) A list of potential sources of the reportable priority pollutant(s);
 - (c) A summary of all actions undertaken pursuant to the control strategy; and
 - (d) A description of actions to be taken in the following year.

b. Storm Water

- i. The Discharger shall submit a Notice of Intent and/or maintain coverage under the Water Quality Order 97-03-DWQ, NPDES General Permit CAS000001 for Discharges of Storm Water Associated with Industrial Activities.
 - (a) All storm water discharges from this facility must comply with the lawful requirements of municipalities, counties, drainage districts, and other local agencies, regarding discharges of storm water to storm water drain systems or other courses under their jurisdiction.
 - (b) Storm water discharges from the facility shall not cause or threaten to cause pollution or contamination.
 - (c) Storm water discharges from the facility shall not contain hazardous substances equal to or in excess of a reportable quantity listed in Part 117 and/or Part 302.

4. Construction, Operation and Maintenance Specifications

a. Facility and Treatment Operation

i. The Discharger shall, at all times, properly operate and maintain all systems and components of collection, treatment and control which are installed or used by the Discharger to achieve compliance with the conditions of this Order. Proper operation and maintenance includes effective performance, adequate process controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of this Order. All systems, both in-service and reserved, shall be inspected and maintained on a regular basis. Records shall be kept of the inspection results and maintenance performed and made available to the Regional Water Board upon demand.

- **ii.** Temporary power or adequate storage capacity shall be provided to maintain the plant in operation in the event of commercial power failure.
- **iii.** Adequate measures shall be taken to assure that unauthorized persons are effectively excluded from contact with the wastewater disposal facilities.
- iv. The Discharger shall implement acceptable operation and maintenance at the facility so that needed repair and maintenance are performed in a timely manner.

b. Antidegradation Analysis and Engineering Report for Proposed Plant Upgrade

All proposed changes to the Facility that will result in the increase in flows, facility changes, and/or change in the nature and character of the discharge, must be reviewed and approved by the Executive Officer, prior to the start of construction of changes to the treatment facility. The Discharger shall submit a technical report that provides an analysis and justification to support the proposed plant upgrade and improvement project. At a minimum, the report will evaluate treatment capacity, address mass increases of pollutants discharged, and propose additional units as necessary to enable adequate treatment. The report shall include time schedules for the ongoing and planned projects and address project status. The report shall also include documentation that any proposed increases in discharges will not violate the State Water Board's antidegradation policy. This analysis is necessary before the Board will consider approving any adjustment in effluent limitations.

c. Spill Response Plan

The Discharger shall submit a Spill Response Plan (SRP) and revise if needed within 90 days after the effective date of this Order. Revised plans shall be submitted for Regional Water Board staff review. Thereafter, the plan shall be updated annually, and shall be available for staff review during Regional Water Board inspections. The Discharger shall ensure that all operating personnel are familiar with the contents of the SRP. A copy of the SRP shall be maintained at the site and shall be accessible to all operating personnel.

5. Special Provisions for Municipal Facilities (POTWs Only)

a. Sludge Requirements

i. General Requirements

- (a) All sludge generated at the treatment facility shall be used or disposed of in compliance with the applicable portions of:
 - (1) Part 503: for sludge land applied, placed in surface disposal sites (dedicated land disposal sites, monofill, or sludge-only parcel at municipal landfill), or incineration.
 - (2) Part 258: for sludge disposed in municipal solid waste landfills (with other materials).
 - (3) Part 257: for all sludge use and disposal practices not covered under Parts 503 or 258.
- (b) The Discharger is responsible for assuring that all sludge generated at the treatment facility is used or disposed of in accordance with these rules, whether the Discharger uses or disposes of the sludge itself or transfers the sludge to another party for further treatment and use, or disposal. The Discharger is responsible for informing subsequent preparers, appliers, and disposers of the requirements that they must meet under these rules.
- (c) The Discharger shall assure that haulers transporting sewage sludge from the treatment facility for treatment, storage, use, or disposal take appropriate measures to keep the sludge contained. Trucks hauling sewage sludge that is not Class A as defined in section 503.32(a) shall be tarped.
- (d) Any sludge treatment, disposal, or storage site shall have adequate procedures to restrict public access and access by domestic animals.
- (e) Sludge treatment, disposal or storage sites shall have facilities adequate to divert surface runoff from adjacent areas, to protect the site boundaries from erosion, and to prevent any conditions that would cause drainage from the sludge to escape from the site. Where adequate protection is defined as protection from at least a 100-year storm.
- (f) For sewage sludge that is applied to land in accordance with Part 503 Subpart B, the wastewater treatment facility shall have adequate screening at the plant headworks and/or at the sludge treatment units to ensure that all pieces of metals, plastics, glass, and other inert objects with a diameter of greater than 3/8" are removed.
- (g) Collected screenings, sludge, and other solids removed from liquid wastes shall be disposed of in a manner that is consistent with State Water Board and Integrated Waste Management Board's joint regulations in Title 27 of the CCRs and that is approved by the Regional Water Board's Executive Officer.
- **ii.** Notification and Reporting Requirements

- (a) The Discharger shall provide a plan as to the method, treatment, handling, and disposal of sludge that is consistent with all State and federal laws and regulations and obtain prior written approval from the Regional Water Board specifying location and method of disposal, before disposing of treated or untreated sludge, or similar solid waste materials using an alternative method than that described in the Findings of the Order.
- (b) If sludge generated at the treatment facility is stored for over two years from the time it is generated, the Discharger shall ensure compliance with all the requirements for surface disposal under Part 503 Subpart C, or shall submit written notification in accordance with section 503.20(b) to the USEPA and the Regional Water Board demonstrating the need for longer temporary storage.
- (c) The Discharger shall maintain a permanent log of all solids hauled away from the treatment facility for use/disposal elsewhere and shall provide a summary of the volume, type (screenings, grit, raw sludge, digested sludge), use (agricultural, composting, etc.), and the destination in accordance with the MRP of this Order. The sludge that is stockpiled at the treatment facility shall be sampled and analyzed for those constituents listed in the sludge monitoring section of the MRP of this Order and as required by Part 503. The results of the analyses should be submitted to the Regional Water Board as part of the MRP.

b. Pretreatment

- i. In the event that (i) the facility has a treatment capacity greater than 5 MGD and Industrial Users [40 C.F.R. § 403.3(h)] are discharging pollutants which Pass Through [40 C.F.R. § 403.3(n)] or Interfere [40 C.F.R. § 403.3(i)] with the operation of the wastewater treatment facility or are otherwise subject to National Pretreatment Standards [40 C.F.R. § 403.3(j)], (ii), Section 2233 of title 23 of the CCRs requires the facility to have and enforce an adequate pretreatment program, or (iii) the Regional Water Board or its Executive Officer determines that other circumstances warrant in order to prevent Interference with the wastewater treatment facility or Pass Through, then:
 - (a) The Discharger shall be responsible for the compliance with all pretreatment requirements contained in CWA Part 403, and shall be subject to enforcement actions, penalties, and other remedies by the USEPA, or the Regional Water Board, as provided in the CWA, as amended (33 USC 1251 et. seq.) (hereafter "Act").
 - (b) Within 365 days of the significant industrial wastewaters being discharged to the wastewater treatment plant, the Discharger shall seek a formal approval of its Pretreatment Plan from the Regional Water Board.

(c) The Discharger must seek approval of its Pretreatment Program from the Regional Water Board subject to Provision VI.C.1.c of this Order in the event a Pretreatment Program is developed.

c. Collection Systems

- i. The Discharger's collection system is part of the system that is subject to this Order. As such, the Discharger must properly operate and maintain its collection system (40 C.F.R. § 122.41(e)). The Discharger must report any non-compliance (40 C.F.R. § 122.41(l)(6) and (7)) and mitigate any discharge from the collection system in violation of this Order (40 C.F.R. § 122.41(d)). See the Order at Standard Provision VI.A.2.e and Attachment D, subsections I.C, I.D, V.E, and V.H.
- **ii.** To provide a consistent, statewide regulatory approach to address Sanitary Sewer Overflows (SSOs), the State Water Resources Control Board (State Water Board) adopted Statewide General Waste Discharge Requirements (WDRs) for Sanitary Sewer Systems, Water Quality Order No. 2006-0003 (Sanitary Sewer Order) on May 2, 2006. The Sanitary Sewer Order requires public agencies that own or operate sanitary sewer systems to develop and implement sewer system management plans and report all SSOs to the State Water Board's online SSO database.

6. Other Special Provisions

- **a.** The Discharger may be required to submit technical reports as directed by the Regional Water Board's Executive Officer.
- **b.** The Discharger shall exclude from the wastewater treatment plant any liquid or solid waste that could adversely affect the plant operation or effluent quality. The excluded liquid or solid waste shall be disposed of in accordance with applicable regulations.

7. Compliance Schedules

a. Deliverables and Due Dates. The Discharger shall comply with the following compliance schedules as summarized in Table 10:

Activity	Description	Due Date
Spill Response Plan	The Discharger shall develop a Spill Response Plan (SRP).	Within 90 days of the effective date of this Order.
TRE Workplan	Description of steps the Discharger will take in the event toxicity is detected. The workplan should describe investigation and evaluation techniques used to identify sources of toxicity; method for maximizing in-house efficiency; and identify the party who will conduct the TIE.	Within 90 days of the effective date of this Order

 Table 10. Compliance Schedule

TDS Study	Update on status of programs and activities to reduce TDS discharges into the receiving water body.	Midterm update to be submitted July 2013 and a final report submitted with re-application
Pollutant Minimization Program (PMP)	The Discharger shall develop a PMP when there is evidence a priority pollutant is present in the effluent above an effluent limitation and either the sample result is reported as DNQ and the effluent limitation is less than the RL; or a sample result is reported as ND and the effluent limitation is less than the MDL. The PMP shall include an annual review of monitoring pollutant sources, quarterly influent monitoring for the priority pollutants, submittal of a pollutant control strategy, and an annual status report which will include PMP monitoring results for the previous year, a list of pollutant sources, summary of actions taken pursuant to the control strategy, and a description of actions to be taken in the following year.	Upon triggering the requirement, Annual Review of monitoring data and control strategies.
Sludge Disposal Notification and Plan	The Discharger shall provide a plan as to the method, treatment, handling, and disposal of sludge that is consistent with all State and federal laws and regulations and obtain prior written approval from the Regional Water Board specifying location and method of disposal, before disposing of treated or untreated sludge, or similar solid waste materials using an alternative method than that described in the Findings of the Order	Prior to disposal of sludge
Pretreatment Reports	The Discharger shall provide the Regional Water Board with an annual report describing the pretreatment program activities over the previous twelve (12) month period including a summary of actions taken by the Discharger which ensures industrial-user compliance; an updated list of industrial users (by SIC categories) which were issued permits, and/or enforcement orders; identification of each user that received a revised discharge limit.	Annual updates submitted yearly

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 Discharger 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 an AMEL, AWEL and MDEL for priority pollutants and more than one sample result is available, the Discharger shall compute the arithmetic mean unless the data set contains one or more reported determinations of "Detected, but Not Quantified" (DNQ) or "Not Detected" (ND). In those cases, the Discharger 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 Discharger 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), where no data is available to show compliance. If only a single sample is taken during the calendar month and the analytical result for that calendar month. The Discharger will 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.

D. Average Weekly Effluent Limitation (AWEL).

If the average (or when applicable, the median determined by subsection B above for multiple sample data) of daily discharges over a calendar week exceeds the AWEL for a given parameter, this will represent a single violation, though the Discharger will be considered out of compliance for each day of that week for that parameter, resulting in 7 days of non-compliance where no data is available to show compliance. If only a single sample is taken during the calendar week and the analytical result for that sample exceeds the AWEL, the Discharger will be considered out of compliance for that calendar week. The Discharger will only be considered out of compliance for days when the discharge occurs. For any one calendar week during which no sample (daily discharge) is taken, no compliance determination can be made for that calendar week.

E. Maximum Daily Effluent Limitation (MDEL).

If a daily discharge (or when applicable, the median determined by subsection B above for multiple sample data of a daily discharge) exceeds the MDEL for a given parameter, the Discharger will be considered out of compliance for that parameter for that 1 day only within the reporting period. For any 1 day during which no sample is taken, no compliance determination can be made for that day.

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, the Discharger 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, the Discharger 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. Effect of Conducting a Pollutant Minimization Program (PMP).

If a sample result for a priority pollutant, or the arithmetic mean or median of multiple sample results is below the RL, and there is evidence that the priority pollutant is present in the effluent above an effluent limitation <u>and</u> the Discharger conducts a PMP for the priority pollutant (as described in Provision VI.C.3.a.), the Discharger shall <u>not</u> be deemed out of compliance.

I. Water Quality-Based Effluent Limitations.

- **1.** In accordance with section 2.4.5 of the SIP, compliance with water quality-based effluent limitations shall be determined as follows:
 - **a.** Dischargers shall be deemed out of compliance with an effluent limitation if the concentration of a priority pollutant in the monitoring sample is greater than the effluent limitation and greater than or equal to the reported Minimum Level (ML).
 - **b.** When determining compliance with an average monthly effluent limitation and more than one sample result is available in a month, the Discharger shall compute the arithmetic mean unless the data set contains one or more reported determinations of DNQ or ND. In those cases, the Discharger shall compute the median in place of the arithmetic mean in accordance with the following procedure:
 - i. The data set shall be ranked from low to high, reported ND determinations lowest, DNQ determinations next, and followed by quantified values (if any). The order of the individual ND or DNQ determinations is unimportant.
 - **ii.** 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 a DNQ.

If a sample result, or the arithmetic mean or median of multiple sample results, is below the reported ML, and there is evidence that the priority pollutant is present in the effluent above an effluent limitation <u>and</u> the Discharger conducts a PMP, the Discharger shall <u>not</u> be deemed out of compliance.

J. Mass and Concentration Limitation.

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 (MER) determined from that sample concentration shall also be reported as ND or DNQ.

K. Percent Removal.

Compliance with the equivalent to secondary treatment standard for monthly average percent removal of biochemical oxygen demand, pursuant to 40 CFR Part 133, shall be determined separately for each wastewater treatment facility discharging through an outfall. For each wastewater treatment facility, the monthly average percent removal is the average of the calculated daily discharge percent removals only for days on which the constituent concentrations is monitored in both the influent and effluent of the wastewater treatment facility at locations specified in the MRP (Attachment E) within a calendar month.

The percent removal for each day shall be calculated according to the following equation:

Daily Discharge Percent Removal = ((Influent Concentration – Effluent Concentration)/Influent Concentration) X 100%

L. Acute and Chronic Toxicity Narrative Effluent Limitations.

Compliance with WET limitations established in the Order shall be determined in accordance with section III.B of the State Water Resources Control Board's Water Quality Enforcement Policy, dated February 2002.

M. Bacterial Effluent Limitations.

Compliance with the bacterial effluent limitations established in section IV.A.1.e of this Order shall be determined as follows:

1. If the calculated geometric mean bacterial concentrations for E. coli or fecal coliform exceed the 30-day geometric mean effluent limitations summarized in the Effluent Limitations and Discharge Requirements section IV.A.1.e of this Order or if

more than ten percent of the bacterial concentrations for fecal coliform exceed a MPN of 400 per 100 milliliters, this will represent a single violation of the water quality-based effluent limitation for bacteria and the Discharger will be considered out of compliance for the month in which the samples were collected.

2. If the bacterial concentrations for E. coli or fecal coliform exceed the maximum bacterial densities summarized in the Effluent Limitations and Discharge Requirements section IV.A.1.e of this Order, this will represent a single violation of the water quality-based effluent limitation for bacteria and the Discharger will be considered out of compliance for the day in which the sample(s) were collected.

N. Total Residual Chlorine Effluent Limitations.

Compliance determinations for total chlorine residual shall be based on either Method 1 or 2 as follows:

Method 1 (Continuous Chlorine Monitoring)

Compliance determinations for total chlorine residual shall be based on 99% compliance. To determine 99% compliance with the effluent limitation for total chlorine residual, the following conditions shall be satisfied:

- **1.** The total time during which the total chlorine residual values are above 0.1 mg/L (instantaneous maximum value) shall not exceed 7 hours and 26 minutes in any calendar month;
- 2. Individual excursions shall not exceed from 0.1 mg/L for 30 minutes or longer; and
- **3.** Individual excursions shall not exceed 5.0 mg/L at any time.

In the event of failure of the continuous chlorine monitoring device, grab samples for total chlorine residual shall be collected immediately and within the first and last hours of the operators' work period, and at least every 4 hours in between. The Discharger shall provide all monitoring data for total residual chlorine and report the instantaneous maximum and average monthly concentration and mass loadings with each monthly SMR for this period. Compliance with total chlorine residual for grab samples during this period will be determined as stated in sections VII. C. and G. of this Order.

Method 2 (Continuous Dechlorination Agent Monitoring)

Compliance determinations for total chlorine residual shall be based on maintaining a positive dechlorination agent residual.

1. A positive dechlorination agent residual shall be maintained at all times.

In the event of failure of the continuous dechlorinating monitoring device or monitoring value below minimum reporting level, grab samples for total chlorine residual or dechlorinating agent shall be collected immediately and within the first and last hours of the operators' work period, and at least every 4 hours in between. The Discharger shall

provide all monitoring data for total residual chlorine or dechlorinating agent and report the instantaneous maximum and average monthly concentration and mass loadings or volume with each monthly SMR for this period. Compliance with total chlorine residual for grab samples during this period will be determined as stated in sections VII. C. and G. of this Order.

ATTACHMENT A – DEFINITIONS

Acutely Toxic Conditions

When used in the context of mixing zones, acutely toxic conditions refers to lethality that occurs to mobile aquatic organisms that move or drift through the mixing zone.

Annual Average Effluent Limitation

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

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.

For the AMEL concentration limit, it is the sum of the measured sample values divided by the number of samples for the month.

For the AMEL mass loading limit, it is the sum of the product of the flow rate (MGD) x measured sample value $(mg/L) \times 8.34$ divided by the number of samples for the 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.

For the AWEL concentration limit, it is the sum of the measured sample values divided by the number of samples for that calendar week.

For the AWEL mass loading limit, it is the sum of the product of the flow rate (MGD) x measured sample value (mg/L) x 8.34 divided by the number of samples for that calendar week.

Best Management Practices (BMPs)

BMPs are methods, measures, or practices designed and selected to reduce or eliminate the discharge of pollutants to surface waters from point and non-point discharges including storm water. BMPs include structural and non-structural controls, and operation and maintenance procedures, which can be applied before, during, and/or after pollution producing activities.

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

Biosolids refer to non-hazardous sewage sludge as defined in section 503.9.

Carcinogenic

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.

Criteria Continuous Concentration (CCC)

Criteria Continuous Concentration equals the highest concentration of a pollutant to which aquatic life can be exposed for an extended period of time (e.g., 4 days) without deleterious effects.

Criteria Maximum Concentration (CMC)

Criteria Maximum Concentration equals the highest concentration of a pollutant to which aquatic life can be exposed for a short period of time (e.g., 1 hour) without deleterious effects.

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.

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.

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.

Domestic Sewage

Domestic Sewage is waste and wastewater from humans or household operations that is discharged to or otherwise enters a treatment works.

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

Not Applicable.

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

Not Applicable.

Existing Discharger

Any Discharger that is not a new Discharger. An existing Discharger includes an "increasing Discharger" (i.e., an existing Facility with treatment systems in place from its current discharge that is or will be expanding, upgrading, or modifying its existing permitted discharge after the effective date of the State Implementation Policy).

Geometric Mean (or Log Mean)

Geometric mean, or log mean, is a measure of the central tendency of a data set that minimizes the effects of extreme values. The geometric mean used for determining compliance with bacterial standards is calculated with the following equation:

Geometric Mean = $(C_1 \times C_2 \times ... \times C_n)^{1/n}$ where n = the number of days samples were collected during the period, and C = the concentration of bacteria (CFU/100 mL) found on each day of sampling.

Incompletely-Mixed Discharge

A discharge that contributes to a condition that does not meet the meaning of a completelymixed discharge condition.

Infeasible

Infeasible means not capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, legal, social, and technological factors.

Inland Surface Waters

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

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).

Load Allocation (LA)

The portion of a receiving water's total maximum daily load that is allocated to one of its nonpoint sources of pollution or to natural background sources.

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)

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 title 40 of the Code of Federal Regulations, Part 136, Attachment B, revised as of July 3, 1999.

Minimum Level (ML)

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

Not Applicable.

Municipality

Municipality means a city, town, borough, county, parish, district, association, or other public body created by or under State law and having jurisdiction over disposal of sewage, industrial wastes, or other wastes, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of CWA.

New Discharger

New Discharger includes any building, structure, Facility, or installation from which there is, or may be, a discharge of pollutants, the construction of which commenced after the effective date of the State Implementation Policy.

Not Detected (ND)

ND are those sample results less than the laboratory's MDL.

Objectionable Bottom Deposits

Objectionable Bottom Deposits are an accumulation of materials or substances on or near the bottom of a water body, which creates conditions that adversely impact aquatic life, human health, beneficial uses, or aesthetics. These conditions include, but are not limited to, the accumulation of pollutants in the sediments and other conditions that result in harm to benthic organisms, production of food chain organisms, or fish egg development. The presence of such deposits shall be determined by Regional Water Board(s) on a case-by-case basis.

Ocean Waters

Not Applicable.

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 Water Code 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 Water Code 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 or Regional Water Board.

Potable Water

Water that is safe for drinking and cooking and is in compliance with the California Department of Public Health or local county health department regulations.

Public Entity

Public Entity includes the Federal government or a state, county, city and county, city, district, public authority, or public agency.

Publicly Owned Treatment Works (POTW)

POTW means a treatment works as defined in 40 CFR 212, which is owned by a State or municipality. This definition includes any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage or industrial wastes of a liquid nature. It also includes sewers, pipes, and other conveyances only if they convey wastewater to a POTW Treatment Plant. The term also means the municipality as defined in 40 CFR 502(4), which has jurisdiction over the Indirect Discharges to and the discharges from such a treatment works.

Report of Waste Discharge

For the purposes of this General Board Order, references to the Report of Waste Discharge (ROWD) shall include the Notice of Intent and any other application information submitted to the Regional Water Board.

Reporting Level (RL)

RL is the ML (and its associated analytical method) chosen by the Discharger for reporting and compliance determination from the MLs included in this Order. 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.

Satellite Collection System

The portion, if any, of a sanitary sewer system owned or operated by a different public agency than the agency that owns and operates the wastewater treatment facility that a sanitary sewer system is tributary to.

Sewage Sludge

Sewage sludge is solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in a treatment works. Sewage sludge includes, but is not limited to, domestic septage; scum or solids removed in primary, secondary, or advanced wastewater treatment processes; and a material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator or grit and screenings generated during preliminary treatment of domestic sewage in a treatment works. Sewage sludge that has been classified as hazardous shall be disposed in accordance with 40 CFR 261.

Sewage Sludge, Class A

Sewage Sludge to be classified Class A with respect to pathogens shall comply with the requirements in 40 CFR 503.32(a)(2) and the requirements in either 40 CFR 503.32(a)(3), (a)(4), (a)(5), (a)(6), (a)(7), or (a)(8).

Sewage Sludge, Class B

Sewage Sludge to be classified Class B with respect to pathogens shall comply with the requirements in either 40 CFR 503.32(b)(2), (b)(3), or (b)(4).

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.

State Implementation Policy (SIP)

The Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California.

Technology-Based Effluent Limitation

A technology-based effluent limitation is a permit limit for a pollutant that is based on the capability of a treatment method to reduce the pollutant to a certain concentration.

Teratogenic

Teratogenic pollutants are substances that are known to cause structural abnormalities or birth defects in living organisms.

Total Maximum Daily Load (TMDL)

A TMDL is the sum of the individual waste load allocations and load allocations for receiving water. A margin of safety is included with the two types of allocations so that any additional loading, regardless of source, would not produce a violation of water quality standards.

Total Solids

Total Solids are the materials that remain as residue when dried at 103 to 105 degrees Celsius.

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.

Attachment A – Definitions (Version 6/1/2007)

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.)

Treatment Works

Treatment works is either a federally owned, publicly owned, or privately owned device or system used to treat (including recycle and reclaim) either domestic sewage or a combination of domestic sewage and industrial waste of a liquid nature.

Vector Attraction

Vector Attraction is the characteristic of a material that attracts rodents, flies, mosquitoes, or other organisms capable of transporting infectious agents.

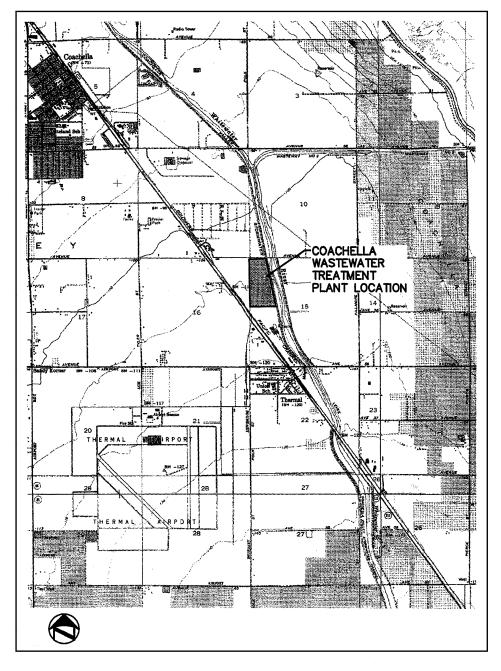
Waste Load Allocation (WLA)

The portion of a receiving water's total maximum daily load that is allocated to one of its existing or future point sources of pollution.

Whole Effluent Toxicity (WET)

The aggregate toxic effect of an effluent measured directly by a toxicity test.

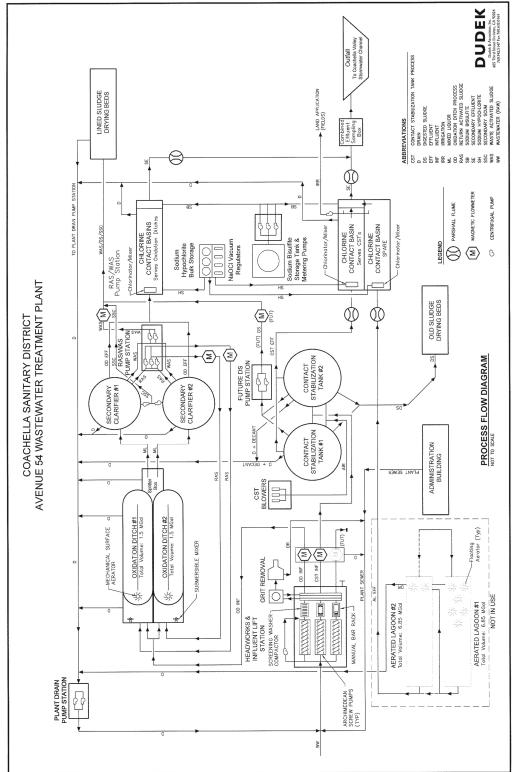
ATTACHMENT B – MAP



CITY OF COACHELLA AND COACHELLA SANITARY DISTRICT, OWNER/OPERATOR; COACHELLA SANITARY DISTRICT WASTEWATER TREATMENT PLANT; Coachella, Riverside County

Location of Discharge: Section 15, T6S, R8E, SBB&M

ATTACHMENT C – FLOW SCHEMATIC



ATTACHMENT D – STANDARD PROVISIONS

I. STANDARD PROVISIONS – PERMIT COMPLIANCE

A. Duty to Comply

- The Discharger must comply with all of the conditions of this Order. Any noncompliance constitutes a violation of the Clean Water Act (CWA) and the California Water Code and is grounds for enforcement action, for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. (40 C.F.R. § 122.41(a).)
- 2. The Discharger shall comply with effluent standards or prohibitions established under Section 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. (40 C.F.R. § 122.41(a)(1).)

B. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a Discharger 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 C.F.R. § 122.41(c).)

C. Duty to Mitigate

The Discharger 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 C.F.R. § 122.41(d).)

D. Proper Operation and Maintenance

The Discharger 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 Discharger 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 Discharger only when necessary to achieve compliance with the conditions of this Order. (40 C.F.R. § 122.41(e).)

E. Property Rights

1. This Order does not convey any property rights of any sort or any exclusive privileges. (40 C.F.R. § 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 C.F.R. § 122.5(c).)

F. Inspection and Entry

The Discharger shall allow the Regional Water Board, State Water Board, United States Environmental Protection Agency (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 required by law, to (40 C.F.R. § 122.41(i); Wat. Code, § 13383):

- Enter upon the Discharger's premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this Order (40 C.F.R. § 122.41(i)(1));
- 2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order (40 C.F.R. § 122.41(i)(2));
- **3.** Inspect and photograph, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order (40 C.F.R. § 122.41(i)(3)); and
- **4.** Sample or monitor, at reasonable times, for the purposes of assuring Order compliance or as otherwise authorized by the CWA or the Water Code, any substances or parameters at any location. (40 C.F.R. § 122.41(i)(4).)

G. Bypass

1. Definitions

- **a.** "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. (40 C.F.R. § 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 C.F.R. § 122.41(m)(1)(ii).)
- 2. Bypass not exceeding limitations. The Discharger 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 C.F.R. § 122.41(m)(2).)

- **3.** Prohibition of bypass. Bypass is prohibited, and the Regional Water Board may take enforcement action against a Discharger for bypass, unless (40 C.F.R. § 122.41(m)(4)(i)):
 - Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage (40 C.F.R. § 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 C.F.R. § 122.41(m)(4)(i)(B)); and
 - c. The Discharger submitted notice to the Regional Water Board as required under Standard Provisions – Permit Compliance I.G.5 below. (40 C.F.R. § 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 C.F.R. § 122.41(m)(4)(ii).)

5. Notice

- a. Anticipated bypass. If the Discharger 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 C.F.R. § 122.41(m)(3)(i).)
- b. Unanticipated bypass. The Discharger shall submit notice of an unanticipated bypass as required in Standard Provisions - Reporting V.E below (24-hour notice). (40 C.F.R. § 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 Discharger. 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 C.F.R. § 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 C.F.R. § 122.41(n)(2).)

- 2. Conditions necessary for a demonstration of upset. A Discharger who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence that (40 C.F.R. § 122.41(n)(3)):
 - An upset occurred and that the Discharger can identify the cause(s) of the upset (40 C.F.R. § 122.41(n)(3)(i));
 - **b.** The permitted facility was, at the time, being properly operated (40 C.F.R. § 122.41(n)(3)(ii));
 - **c.** The Discharger submitted notice of the upset as required in Standard Provisions Reporting V.E.2.b below (24-hour notice) (40 C.F.R. § 122.41(n)(3)(iii)); and
 - d. The Discharger complied with any remedial measures required under Standard Provisions – Permit Compliance I.C above. (40 C.F.R. § 122.41(n)(3)(iv).)
- **3.** Burden of proof. In any enforcement proceeding, the Discharger seeking to establish the occurrence of an upset has the burden of proof. (40 C.F.R. § 122.41(n)(4).)

II. STANDARD PROVISIONS – PERMIT ACTION

A. General

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

B. Duty to Reapply

If the Discharger wishes to continue an activity regulated by this Order after the expiration date of this Order, the Discharger must apply for and obtain a new permit. (40 C.F.R. § 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 Discharger and incorporate such other requirements as may be necessary under the CWA and the Water Code. (40 C.F.R. 122.41(I)(3); § 122.61.)

III. STANDARD PROVISIONS – MONITORING

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

IV. STANDARD PROVISIONS – RECORDS

A. Except for records of monitoring information required by this Order related to the Discharger's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by Part 503), the Discharger 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 C.F.R. § 122.41(j)(2).)

B. Records of monitoring information shall include:

- 1. The date, exact place, and time of sampling or measurements (40 C.F.R. § 122.41(j)(3)(i));
- 2. The individual(s) who performed the sampling or measurements (40 C.F.R. § 122.41(j)(3)(ii));
- 3. The date(s) analyses were performed (40 C.F.R. § 122.41(j)(3)(iii));
- 4. The individual(s) who performed the analyses (40 C.F.R. § 122.41(j)(3)(iv));
- 5. The analytical techniques or methods used (40 C.F.R. § 122.41(j)(3)(v)); and
- **6.** The results of such analyses. (40 C.F.R. § 122.41(j)(3)(vi).)

C. Claims of confidentiality for the following information will be denied (40 C.F.R. § 122.7(b)):

- 1. The name and address of any permit applicant or Discharger (40 C.F.R. § 122.7(b)(1)); and
- 2. Permit applications and attachments, permits and effluent data. (40 C.F.R. § 122.7(b)(2).)

V. STANDARD PROVISIONS – REPORTING

A. Duty to Provide Information

The Discharger 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 Discharger shall also furnish to the Regional Water Board, State Water Board, or USEPA copies of records required to be kept by this Order. (40 C.F.R. § 122.41(h); Wat. Code, § 13267.)

B. Signatory and Certification Requirements

- 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 C.F.R. § 122.41(k).)
- 2. All permit applications 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 C.F.R. § 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 C.F.R. § 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 C.F.R. § 122.22(b)(2)); and
 - **c.** The written authorization is submitted to the Regional Water Board and State Water Board. (40 C.F.R. § 122.22(b)(3).)
- 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 C.F.R. § 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 C.F.R. § 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 C.F.R. § 122.22(I)(4).)
- 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 C.F.R. § 122.41(I)(4)(i).)
- **3.** If the Discharger monitors any pollutant more frequently than required by this Order using test procedures approved under Part 136 or, in the case of sludge use or disposal, approved under Part 136 unless otherwise specified in Part 503, or as specified in this Order, the results of this 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 C.F.R. § 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 C.F.R. § 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 C.F.R. § 122.41(I)(5).)

E. Twenty-Four Hour Reporting

1. The Discharger shall report any noncompliance that may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the Discharger becomes aware of the circumstances. A written submission shall also be provided within five (5) days of the time the Discharger 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 C.F.R. § 122.41(I)(6)(i).)

- 2. The following shall be included as information that must be reported within 24 hours under this paragraph (40 C.F.R. § 122.41(I)(6)(ii)):
 - **a.** Any unanticipated bypass that exceeds any effluent limitation in this Order. (40 C.F.R. § 122.41(I)(6)(ii)(A).)
 - **b.** Any upset that exceeds any effluent limitation in this Order. (40 C.F.R. § 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 C.F.R. § 122.41(I)(6)(iii).)

F. Planned Changes

The Discharger 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 C.F.R. § 122.41(I)(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 section 122.29(b) (40 C.F.R. § 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 not subject to effluent limitations in this Order. (40 C.F.R. § 122.41(l)(1)(ii).)
- **3.** The alteration or addition results in a significant change in the Discharger'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 C.F.R.§ 122.41(I)(1)(iii).)

G. Anticipated Noncompliance

The Discharger 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 General Order requirements. (40 C.F.R. § 122.41(I)(2).)

H. Other Noncompliance

The Discharger 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 C.F.R. § 122.41(I)(7).)

I. Other Information

When the Discharger 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 Discharger shall promptly submit such facts or information. (40 C.F.R. § 122.41(I)(8).)

VI. STANDARD PROVISIONS – ENFORCEMENT

A. The Regional Water Board is authorized to enforce the terms of this permit under several provisions of the Water Code, including, but not limited to, sections 13385, 13386, and 13387.

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 C.F.R. § 122.42(b)):

- 1. Any new introduction of pollutants into the POTW from an indirect discharger that would be subject to sections 301 or 306 of the CWA if it were directly discharging those pollutants (40 C.F.R. § 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 C.F.R. § 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 C.F.R. § 122.42(b)(3).)

ATTACHMENT E – MONITORING AND REPORTING PROGRAM

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ATTACHMENT E – MONITORING AND REPORTING PROGRAM (MRP)

The Code of Federal Regulations section 122.48 requires that all NPDES permits specify monitoring and reporting requirements. Water Code sections 13267 and 13383 also authorize the Regional Water Quality Control Board (Regional Water Board) to require technical and monitoring reports. This MRP establishes monitoring and reporting requirements, which implement the federal and California regulations.

I. GENERAL MONITORING PROVISIONS

- A. Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring locations specified below and, unless otherwise specified, before the monitored flow joins or is diluted by any other waste stream, body of water, or substance. Monitoring locations shall not be changed without notification to and the approval of this Regional Water Board.
- **B.** Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated and maintained to ensure that the accuracy of the measurements is consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than ±10 percent from true discharge rates throughout the range of expected discharge volumes. Guidance in selection, installation, calibration and operation of acceptable flow measurement devices can be obtained from the following references:
 - "A Guide to Methods and Standards for the Measurement of Water Flow," U.S. Department of Commerce, National Bureau of Standards, NBS Special Publication 421, May 1975, 96 pp. (Available from the U.S. Government Printing Office, Washington, D.C. 20402. Order by SD Catalog No. C13.10:421.)
 - "Water Measurement Manual," U.S. Department of Interior, Bureau of Reclamation, Second Edition, Revised Reprint, 1974, 327 pp. (Available from the U.S. Government Printing Office, Washington, D.C. 20402. Order by Catalog No. 172.19/2:W29/2, Stock No. S/N 24003-0027.)
 - "Flow Measurement in Open Channels and Closed Conduits," U.S. Department of Commerce, National Bureau of Standards, NBS Special Publication 484, October 197, 982 pp. (Available in paper copy or microfiche from National Technical Information Services (NTIS) Springfield, VA 22151. Order by NTIS No. PB-273 535/5ST.)
 - 4. "NPDES Compliance Sampling Manual," USEPA, Office of Water Enforcement, Publication MDC-51, 1977, 140 pp. (Available from the General Services Administration (8FFS), Centralized Mailing Lists Services, Building 41, Denver Federal Center, CO 80225.)

- **C.** All flow measurement devices shall be calibrated at least once per year or more frequently, to ensure continued accuracy of the devices.
- **D.** All analyses shall be conducted at a laboratory certified for such analyses by the State Department of Public Health. Laboratories analyzing monitoring samples shall be certified by the Department of Public Health, in accordance with the provision of Water Code section 13176, and must include quality assurance/quality control data with their reports.
- E. The collection, preservation and holding times of all samples shall be in accordance with the test procedures under Part 136 (revised as of May 14, 1999) "Guidelines Establishing Test Procedures for the Analysis of Pollutants," promulgated by the United States Environmental Protection Agency (USEPA), unless otherwise specified in this MRP. In addition, the Regional Water Board and/or EPA, at their discretion, may specify test methods that are more sensitive than those specified in Part 136.
- F. For priority pollutants, the Discharger shall require its testing laboratory to calibrate the analytical system down to the minimum levels (MLs) specified in Attachment "H" of this Order, unless an alternative minimum level is approved by the Regional Water Board's Executive Officer. For priority pollutants with water quality-based effluent limitations (WQBELs) established in this Order, when there is more than one ML value listed in Attachment "H" for that substance, the Discharger shall select any one of the ML values and its associated analytical method that is below the calculated effluent limitation. If no ML is below the effluent limitation, then the lowest ML value and its associated analytical method shall be used. For priority pollutants without effluent limitations established in this Order, the Discharger shall select any one of the cited analytical methods for monitoring and reporting purposes. Any internal quality control data associated with the sample shall be reported when requested by the Executive Officer. The Regional Water Board will reject the quantified laboratory data if quality control data is unacceptable.
- **G.** In conformance with federal regulations section 122.45(c), analyses to determine compliance with the effluent limitations for metals shall be conducted using the total recoverable method. For Chromium (VI), the dissolved method in conformance with Part 136 shall be used to measure compliance with a Chromium (VI) effluent limitation. For Cyanide¹, Total Cyanide or Available Cyanide analytical test methods in

¹ It is also recommended to use appropriate sampling procedures. The sample for cyanide measurement shall be collected as a 24-hour composite sample, which is a mixture of individual grab samples collected at regular intervals. Each grab sample shall be immediately checked for chlorine residual and shall be dechlorinated with sodium thiosulfate. Each grab sample shall be preserved by adding sodium hydroxide until a pH >12 is attained to prevent the loss of hydrogen cyanide. Cyanide samples shall be kept in the dark and refrigerated at 4 °C until the samples are submitted to the contract laboratory. It is required to record the time and date of sample collection, pH, and the name of the person(s) collecting/preserving the samples. Due to the presence of nitrite and sulfide in the wastewater sample, it is important to ensure that the commercial laboratory uses appropriate sample pretreatment procedures. Nitrosation seemed to be successfully avoided by adding sulfamic acid, and the time of sulfamic acid addition did not influence the free cyanide results, presumably due to relatively low nitrite concentration. Nonetheless, sample pretreatment with sulfamic acid at the time of sampling, not at the time of analysis, is recommended considering the potential increase in nitrite concentrations in the secondary effluent as a result of plant improvements in the future.

conformance with Part 136 may be used as acceptable methods to measure compliance with a Cyanide effluent limitation. The test for cyanide amenable to chlorination, Standard Methods 4500-CN-G is the most commonly used method by commercial laboratories.

- **H.** In accordance with the test procedures under 40 CFR Part 136, samples shall be analyzed as soon as possible after collection. The Discharger shall develop a written Quality Assurance Plan (QAP) for samples that are analyzed onsite. The QAP shall at a minimum address the following steps:
 - 1. Provide a description of Standard Operating Procedures (SOPs);
 - 2. Provide an overview of the task description and objectives;
 - 3. Identify the sampling process, method and handling;
 - 4. Identify the instrumentation/equipment testing, inspection and maintenance;
 - 5. Identify the instrumentation/equipment calibration and frequency;
 - 6. Identify the sample analysis methods and calibration range; and
 - 7. Summarize the data review and validation procedures.
- I. All monitoring instruments and devices used by the discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy. In the event that continuous monitoring equipment is out of service for period greater than 24-hours, the Discharger shall obtain representative grab samples each day the equipment is out of service. The Discharger shall correct the cause(s) of failure of the continuous monitoring equipment as soon as practicable. The Discharger shall report the period(s) during which the equipment was out of service and if the problem has not been corrected, shall identify the steps which the Discharger is taking or proposes to take to bring the equipment back into service and the schedule for these actions.
- **J.** Monitoring results, including noncompliance, shall be reported at intervals and in a manner specified in this MRP.
- **K.** Whenever the Discharger monitors any pollutant more frequently than is required by this Order, the results of this monitoring shall be included in the calculations and reporting of the data submitted in the discharge monitoring report specified by the Executive Officer.
- L. If the facility is not in operation, or there is no discharge during a required reporting period, the Discharger shall forward a letter to the Regional Water Board indicating that there has been no activity during the required reporting period.
- **M.** The Discharger shall submit all required calculations required to determine compliance with the permit effluent limit requirements (i.e., AMEL, MDEL, % removals, Geomeans, Max and Min, mass loadings, etc.).

II. MONITORING LOCATIONS

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

Discharge Point Name	Monitoring Location Name	Monitoring Location Description
	INF-001	Wastewater influent to the treatment facility. The sampling station shall be located upstream of any in-plant return flows where representative influent to the treatment plant can be obtained.
001	EFF-001A	Effluent discharged from the activated sludge treatment system.
001	EFF-001B	Effluent discharged from the oxidation ditch treatment system.
001 EFF-001C flow prior to discharge from Discharge F		Representative sample from the total combined effluent wastewater flow prior to discharge from Discharge Point 001: 33° 39' 20" N Latitude and 116° 08' 31" W Longitude.
	RSW-001	Receiving water (Coachella Valley Storm Water Channel) monitoring location ¹ not to exceed 200 feet upstream from the location where the effluent enters the Coachella Valley Storm Water Channel.
	RSW-002	Receiving water (Coachella Valley Storm Water Channel) monitoring location ¹ not to exceed 200 feet downstream from the location where the effluent enters the Coachella Valley Storm Water Channel.
	SLD-001	Sludge quantity, location and method of disposal from the Facility.

 Table E-1.
 Monitoring Station Locations

¹ In the event of flooding such that the normal receiving water monitoring locations are submerged or inaccessible, alternative receiving water monitoring locations shall be the bridge at Avenue 52 (RSW-001) and the bridge at Avenue 56 (RSW-002).

III. INFLUENT MONITORING REQUIREMENTS

A. Monitoring Location INF-001

1. The Discharger 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 and Minimum Level (ML)
Biochemical Oxygen Demand (BOD) (5 day @ 20 Deg. C)	mg/L	24-Hr. Composite	1x/Week	See Section 1.E of the MRP
Total Suspended Solids (TSS)	mg/L	24-Hr. Composite	1x/Week	See Section 1.E of the MRP

IV. EFFLUENT MONITORING REQUIREMENTS

A. Monitoring Location EFF-001A

1. The Discharger shall monitor the effluent from the activated sludge treatment system at Monitoring Location EFF-001A as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method and ML
Flow	MGD	Flow Meter Reading	1x/Day	See Section I.B of the MRP
BOD ₅	mg/L	24-Hr. Composite	1x/Week	See Section I.E of the MRP
TSS	mg/L	24-Hr. Composite	1x/Week	(3

Table E-3. Effluent Monitoring – Activated Sludge Treatment System

B. Monitoring Location EFF-001B

1. The Discharger shall monitor the effluent from the oxidation ditch treatment system at Monitoring Location EFF-001B as follows:

Table E-4. Effluent Monitoring – Oxidation Ditch Treatment System

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method and ML
Flow	MGD	Flow Meter Reading	1x/Day	See Section I.B of the MRP
BOD ₅	mg/L	24-Hr. Composite	1x/Week	See Section I.E of the MRP
TSS	mg/L	24-Hr. Composite	1x/Week	63

C. Monitoring Location EFF-001C

1. The Discharger shall monitor a representative sample of secondary treated wastewater effluent from the combined discharges (i.e., activated sludge treatment system and oxidation ditch treatment system) at Monitoring Location EFF-001C as follows:

Table E-5.Effluent Monitoring

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method and ML
рН	Standard Units	Grab	1x/Day	See Section I.E of the MRP
Chlorine, Total Residual or Dechlorinating Agent	mg/L lbs/day or gallons	Continuous	1x/Day ¹	63
Temperature	۴	Grab	1x/Day	63
Escherichia Coli (E. Coli)	MPN/100 ml	Grab	5x/Month ^{2, 3}	i)
Fecal coliform	MPN/100 ml	Grab	5x/Month ²	£3
BOD₅	mg/L Ibs/day	24-Hr. Composite	1x/Week	63

COACHELLA SANITARY DISTRICT COACHELLA SANITARY DISTRICT WASTEWATER TREATMENT PLANT

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method and ML
TSS	mg/L	24-Hr. Composite	1x/Week	()
100	lbs/day			
Oil and Grease	mg/L	Grab	1x/Month	0
	lbs/day	Circlo		
Copper, Total	μg/L	Grab	1x/Month	See Section I.F of the MRP
Recoverable	lbs/day	Cirub		
Zinc, Total	μg/L	Grab	1x/Month	0
Recoverable	lbs/day	Circlo		
Bis(2-	μg/L	Grab	1x/Month	0
Ethylhexyl)Phthalate	lbs/day	Cirub		
4,4'-DDT	μg/L	Grab	1x/Quarter ⁴	a
4,4'-DDE	μg/L	Grab	1x/Quarter ⁴	a
Nitrates as Nitrogen (N)	mg/L	Grab	1x/Month	See Section I.E of the MRP
Nitrites as N	mg/L	Grab	1x/Month	¢3
Ammonia Nitrogen as N	mg/L	Grab	1x/Month	63
Total Nitrogen as N	mg/L	Grab	1x/Month	63
Total Phosphate as Phosphorus (P)	mg/L	Grab	1x/Month	ø
Ortho-Phosphate as P	mg/L	Grab	1x/Month	67
Total Dissolved Solids	mg/L	24-Hr. Composite	1x/Month	ω
Chloride	mg/L	Grab	1x/Quarter	()
Sulfates	mg/L	Grab	1x/Quarter	()
Hardness, Total (as CaCO ₃)	mg/L	Grab	1x/Quarter	σ
Priority Pollutants ⁵ (Inorganic Portion)	μg/L	24-Hr Composite	1x/Year	See Section I.F of the MRP
Priority Pollutants ⁶ (Remaining Portion)	μg/L	Grab	1x/Year	Ø

Compliance with effluent limitations for total residual chlorine shall be in accordance with Section VII. N. Total Chlorine Residual Effluent Limitation (Continuous Effluent Limitation).

² Five samples equally spaced over a 30-day period with a minimum of one sample per week.

³ The Discharger may monitor for E. coli using analytical methods, Standard Method 9221.F or 9223 (APHA. 1998, 1995, 1992. Standard Methods for the Examination of Water and Wastewater. American Public Health Association, 20th, 19th, and 18th Editions. Amer. Publ. Hlth. Assoc., Washington D.C).

⁴ The Discharger shall monitor 4,4'-DDT and 4,4'-DDE once per quarter (1x/Quarter) for the first year of the permit term. For the remainder of the permit term, the Discharger shall monitor 4,4'-DDT and 4,4'-DDE once per year, at the same time as the monitoring for the complete list of priority pollutants is conducted.

⁵ Inorganic Priority Pollutants as listed in Attachment H and as defined by the California Toxics Rule (CTR).

⁶ Volatile, Semi-Volatile, Pesticide and PCB Priority Pollutants as listed in Attachment H and as defined by the CTR.

V. WHOLE EFFLUENT TOXICITY TESTING REQUIREMENTS

A. Monitoring Requirements

- 1. Bioassays shall be performed to evaluate the toxicity of the discharged wastewater in accordance with the following procedures unless otherwise specified by the Regional Water Board's Executive Officer or his designee:
 - a. Bioassays shall be conducted on a sensitive fish species and an invertebrate species as approved by the Regional Water Board's Executive Officer. *Pimephales promelas* (fathead minnow) and *Ceriodaphnia dubia* (water flea) are suggested test species that may be utilized. The bioassays shall be conducted in accordance with the protocol given in EPA/821-R-02-013 Short Term Methods for Estimating the Chronic Toxicity of Effluent and Receiving Waters to Freshwater Organisms, 4th Edition, and EPA/821-R-02-012 Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters for Freshwater and Marine Organisms, 5th Edition, or subsequent editions.
- 2. The Discharger shall conduct chronic and acute toxicity testing on the final effluent discharged at monitoring point EFF-001.

Test	Units	Sample Type	Minimum Sampling Frequency
Chronic Toxicity	TU _c ¹	24-Hr. Composite	2x/Year
Acute Toxicity	TU _a ^{2,3,4} & % Survival	24-Hr. Composite	2x/Year

Table E-6. Whole Effluent Toxicity Testing

1 Chronic toxicity units

2 Acute toxicity units

- 3 Acute Bioassay results can be calculated from chronic bioassay test for *Pimephales promelas*
- 4 Discharger can provide Pass/Fail when using a t-test.
- 3. Both test species given below shall be used to measure chronic and acute toxicity:

Table E-7. Whole Effluent Toxicity Test Species

Species	Effect	Test Duration (days)	Reference
Fathead Minnow	Larval Survival and	7	EPA/821-R-02-013 (Chronic)
(<i>Pimephales promelas</i>)	Growth		EPA/821-R-02-012 ¹ (Acute)
Water Flea	Survival and	7	EPA/821-R-02-013 (Chronic)
(<i>Ceriodaphnia dubia</i>)	Reproduction		EPA/821-R-02-012 ¹ (Acute)

1 Acute bioassay results can be calculated from chronic bioassay test for Pimephales promelas

4. Toxicity Test References for Conducting Toxicity Tests

- **a.** Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, Fifth Edition, EPA/821-R-02-012, October 2002 or subsequent editions.
- **b.** Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Water for Freshwater Organisms, Fourth Edition, EPA/821-R-02-013, October 2002 or subsequent editions.

B. Quality Assurance

- **1.** Dilution and control waters may be obtained from an unaffected area of receiving waters. Synthetic (standard) dilution is an option and may be used if the above source is suspected to have toxicity greater than 1.0 TU_c.
- **2.** A series of at least five dilutions and a control shall be tested for chronic toxicity testing and may be used for acute toxicity testing. The series shall include the following concentrations: 12.5, 25, 50, 75, and 100 percent effluent.
- **3.** For the acute toxicity testing using a t-test, two dilutions shall be used, i.e., 100 percent effluent and a control (when a t-test is used instead of an LC_{50}).
- **4.** If organisms are not cultured in-house, concurrent testing with a referenced toxicant shall be conducted. Where organisms are cultured in-house, monthly reference toxicant testing is sufficient. Reference toxicant tests shall also be conducted using the same test conditions as the effluent toxicity tests (e.g., same test duration).
- **5.** If either the reference toxicant test or effluent test does not meet all test acceptability criteria (TAC) as specified in the toxicity test references, then the Discharger must re-sample and retest within 15 working days or as soon as possible. The retesting period begins when the Discharger receives the test results that indicate retesting is needed or collects the first sample required to complete the retest.
- 6. The reference toxicant and effluent tests must meet the upper and lower bounds on test sensitivity as determined by calculating the percent minimum significant difference (PMSD) for each test result. The test sensitivity bound is specified for each test method in the respective methods manuals.

C. Chronic and Acute Toxicity Definitions

- 1. Chronic toxicity measures sub-lethal effect (e.g., reduced growth, reproduction) to experimental test organisms exposed to an effluent or ambient waters compared to that of the control organisms.
- **2.** Chronic toxicity shall be measured in TU_c , where $TU_c = 100/NOEC$. The no observed effect concentration (NOEC) is the highest concentration of toxicant to which organisms are exposed in a chronic test that causes no observable adverse effect on the test organisms (e.g., the highest concentration of toxicant to which the

values for the observed responses are not statistically significantly different from the control(s).

- **3.** Acute toxicity is a measure of primarily lethal effects that occur over a ninety-six (96) hour period. Acute toxicity for *Pimephales promelas* can be calculated from the results of the chronic toxicity test for *Pimephales promelas* and reported along with the results of each chronic test. Acute toxicity for *Ceriodaphnia dubia* cannot be calculated from the results of the chronic toxic toxic toxic toxicity test for *Ceriodaphnia dubia* cannot be calculated from the results of the chronic toxicity test of the chronic toxicity test for *Ceriodaphnia dubia* because the test design is not amenable to calculation of a lethal concentration (LC_{50}) value as needed for the acute requirement.
- **4.** Acute toxicity shall be measured in TU_a , where $TU_a = 100/LC_{50}$ and percent survival or as pass/fail using a t-test. LC_{50} is the toxicant concentration that would cause death in 50 percent of the test organisms.

D. Numeric Toxicity Monitoring Triggers

- **1. Chronic Toxicity.** Any chronic toxicity test result that exceeds 2 chronic toxicity units (TU_c) or a three (3)-sample median (consecutive samples) that exceeds 1 TU_c shall trigger accelerated WET testing.
- **2.** Acute Toxicity. Any acute toxicity test result showing high toxicity shall trigger accelerated WET testing. High acute toxicity is defined as follows:
 - **a.** Less than 80% survival when acute toxicity is calculated from results of the chronic toxicity test (only for *Pimephales promelas*), or
 - **b.** Less than 90% survival when acute toxicity is calculated from the results of the acute toxicity test, or
 - **c.** Results of acute toxicity t-test for 100 percent effluent concentration that is reported as failed.

The numeric toxicity triggers are not an effluent limitation, they are the toxicity threshold at which the Discharger is required to perform accelerated WET testing to confirm effluent toxicity, as well as, the threshold to initiate a toxicity reduction evaluation (TRE) and Toxicity Identification Evaluation (TIE) if toxicity is confirmed.

E. Accelerated WET Testing Requirements

When a numeric toxicity trigger is exceeded during regular acute and chronic toxicity monitoring, and the WET test satisfies the test acceptability criteria, the Discharger shall initiate accelerated WET testing. The Discharger shall initiate accelerated monitoring within fifteen (15) days of notification by the laboratory of the exceedance. Accelerated WET testing shall consist of performing three (3) WET tests in a nine (9)-week period. The accelerated WET tests shall use the bioassay test species that exceeded the numeric toxicity monitoring triggers. The following protocol shall be used for accelerated monitoring:

- 1. If the results of the three (3) consecutive accelerated WET tests do not exceed the numeric toxicity monitoring triggers, the Discharger may cease accelerated WET testing and resume regular acute and chronic toxicity monitoring. However, notwithstanding the accelerated monitoring results, if there is adequate evidence of a pattern of effluent toxicity, the Executive Officer may require that the Discharger initiate a TRE.
- 2. If the source(s) of the toxicity is easily identified (e.g., temporary plant upset), the Discharger shall make necessary corrections to the facility and only one accelerated WET test shall be performed. Upon confirmation that the effluent toxicity has been removed, the Discharger may cease accelerated WET testing and resume regular acute and chronic toxicity monitoring.
- 3. If the results of two of the three accelerated WET tests exceed the numeric toxicity monitoring trigger, the accelerated WET testing schedule may be terminated, or used as necessary in performing a TRE/TIE to investigate the cause(s) of, and identify the corrective actions to reduce or eliminate effluent toxicity. Within fifteen (15) days of notification by the laboratory of the second accelerated WET test result exceeding the numeric toxicity monitoring trigger, the Discharger shall initiate a TIE and TRE.

F. Conducting Toxicity Identification Evaluations and Toxicity Reduction Evaluations

- 1. A Toxicity Identification Evaluation (TIE) shall be triggered if the two of the three accelerated WET tests exceed the numeric toxicity monitoring triggers specified in section V.D. of the MRP.
- **2.** The TIE shall be conducted to identify and evaluate toxicity in accordance with procedures recommended by the USEPA which include the following:
 - **a.** Toxicity Identification Evaluations: Characterization of Chronically Toxic Effluents, Phase I, EPA 600-6-91-005F, 1992;
 - **b.** Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures, Second Edition, EPA 600-R-91-003, 1991;
 - **c.** Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity, EPA 600-R-92-080, 1993; and
 - **d.** Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity, EPA 600-R-92-081, 1993.
- **3.** As part of the TIE Investigation, the Discharger shall be required to implement its TRE workplan. The Discharger shall take all reasonable steps to control toxicity once the source of the toxicity is identified. A failure to conduct required WET tests or a TRE within a designated period shall result in the establishment of numerical

toxicity effluent limitations in a permit or appropriate enforcement action. Recommended guidance in conducting a TRE include the following:

- **a.** Toxicity Reduction Evaluation Guidance for Municipal Wastewater Treatment Plants, EPA/833B-99-002, August 1999;
- **b.** Generalized Methodology for Conducting Industrial Toxicity Reduction Evaluations, EPA/600/2-88/70, April 1989; and
- **c.** Clarifications Regarding Toxicity Reduction and Identification Evaluations in the National Pollutant Discharge Elimination System Program dated March 27, 2001, USEPA Office of Wastewater Management, Office of Regulatory Enforcement.

G. Reporting

- 1. The Discharger shall submit the results of WET tests, including any accelerated WET test results with the discharge monitoring reports for the month in which the last test was conducted.
- **2.** If a TIE is conducted, the Discharger shall submit the results of the TIE with the discharge monitoring reports for the month in which the final report is completed.
- **3.** If the TRE has been initiated, the Discharger shall report on the progress of the actions being taken to identify and reduce or eliminate the source(s) of effluent toxicity and include this information with each monthly monitoring report.

VI. LAND DISCHARGE MONITORING REQUIREMENTS – NOT APPLICABLE

VII. RECLAMATION MONITORING REQUIREMENTS – NOT APPLICABLE

VIII. RECEIVING WATER MONITORING REQUIREMENTS – SURFACE WATER AND GROUNDWATER

A. Monitoring Location RSW-001

1. The Discharger shall monitor the Coachella Valley Storm Water Channel at RSW-001 as follows. In the event that no receiving water is present at RSW-001, no receiving water monitoring data are required for station RSW-001.

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
рН	Standard Units	Grab	1x/Month	See Section I.E of the MRP
Temperature	٥F	Grab	1x/Month	"
Oxygen, Dissolved (DO)	mg/L	Grab	1x/Month	ű
Hardness	mg/L	Grab	1x/Month	"
Total Dissolved Solids	mg/L	Grab	1x/Month	دد
Nitrates as N	mg/L	Grab	1x/Month	دد

Table E-8. Receiving Water Monitoring Requirements

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Nitrites as N	mg/L	Grab	1x/Month	"
Ammonia Nitrogen as N	mg/L	Grab	1x/Month	"
Total Nitrogen as N	mg/L	Grab	1x/Month	"
Total Phosphate as P	mg/L	Grab	1x/Month	"
Priority Pollutants ¹ (Inorganic Portion)	μg/L	Grab	1x/Year	See Section I.F of the MRP
Priority Pollutants ² (Remaining Portion)	μg/L	Grab	1x/Year	u

Inorganic Priority Pollutants as listed in Attachment H and as defined by the CTR.

² Volatile, Semi-Volatile, Pesticide and PCB Priority Pollutants as listed in Attachment H and as defined by the CTR.

B. Monitoring Location RSW-002

1. The Discharger shall monitor the Coachella Valley Storm Water Channel at RSW-002 as follows.

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
рН	Standard Units	Grab	1x/Month	See Section I.E of the MRP
Temperature	٥F	Grab	1x/Month	"
Oxygen, Dissolved (DO)	mg/L	Grab	1x/Month	"
Hardness	mg/L	Grab	1x/Month	دد
Nitrates as N	mg/L	Grab	1x/Month	"
Nitrites as N	mg/L	Grab	1x/Month	"
Ammonia Nitrogen as N	mg/L	Grab	1x/Month	دد
Total Nitrogen as N	mg/L	Grab	1x/Month	"
Total Phosphate as P	mg/L	Grab	1x/Month	"
Total Dissolved Solids	mg/L	Grab	1x/Month	دد

Table E-9. Receiving Water Monitoring Requirements

- **2. Visual Monitoring**. In conducting the receiving water sampling, a log shall be kept of the receiving water conditions at Monitoring Locations RSW-001. Notes on receiving water conditions shall be summarized in the monitoring report. Attention shall be given to the presence or absence of:
 - a. Floating or suspended matter;
 - **b.** Discoloration;
 - c. Aquatic life (including plants, fish, shellfish, birds);
 - d. Visible film, sheen, or coating;
 - e. Fungi, slime, or objectionable growths; and

f. Potential nuisance conditions.

IX. OTHER MONITORING REQUIREMENTS

A. Water Supply Monitoring

The Discharger is required to obtain or acquire quarterly total dissolved solids concentrations of the source water, either through monitoring or obtaining the data from the drinking water purveyor. This information will be compiled and summarized in a report, in accordance with Provision VI.C.2.d of the Order.

B. Monitoring Location SLD-001 Sludge Monitoring

1. Sludge that is generated at the treatment facility shall be sampled and analyzed for the following prior to disposal:

Constituent	Units	Sample Type ¹	Required Analytical Test Method
Arsenic	mg/kg	Composite	See Footnotes 2 and 3
Cadmium	mg/kg	Composite	33
Copper	mg/kg	Composite	33
Lead	mg/kg	Composite	33
Mercury	mg/kg	Composite	33
Molybdenum	mg/kg	Composite	33
Nickel	mg/kg	Composite	33
Selenium	mg/kg	Composite	33
Zinc	mg/kg	Composite	33
Kjeldahl Nitrogen (TKN), Total (as N)	mg/kg	Composite	"
Ammonia (as N)	mg/kg	Composite	33
Nitrate (as N)	mg/kg	Composite	33
Phosphorus, Total	mg/kg	Composite	33
Potassium, Total	mg/kg	Composite	33
Total Solids	mg/kg	Composite	33
Fecal Coliform	MPN/gram	Composite	33
Total Petroleum Hydrocarbons	μg/L	Composite	"
Bis(2- ethylhexyl)Phthalate	mg/kg	Grab	See Footnote 4

Table E-10. Sludge Monitoring Required SLD-001

Composite samples shall be collected prior to use or disposal.

² Pollutants shall be analyzed using the analytical methods described in Part 503.8.

³ Results shall be reported on a 100% dry weight basis. Records of all analyses shall state on each page of the analysis results whether the results are expressed on an "as-is" basis or on a 100% dry weight basis.

⁴ POTWs and Federal facilities with a design flow rate equal to or greater than five million gallons per day, POTWs with approved pretreatment programs or others designated as Class 1 sludge management facility by the Regional Administrator shall sample and analyze the sludge generated at the facility once per year (1/Year) for priority pollutants, for which reasonable potential was demonstrated (i.e., bis(2ethylhexyl)phthalate). Sludge monitoring requirements listed in Table E-10, above, shall be sampled and analyzed according to the volume of sludge generated per year at the frequency specified below:

Volume Generated ¹ (dry metric tons per year)	Minimum Sampling Frequency ²
Greater than zero, but less than 290	1x/Year
Equal to or greater than 290, but less than 1,500	1x/Quarter
Equal to or greater than 1,500, but less than 15,000	6x/Year
Equal to or greater than 15,000	1x/Month

Table E-11. Sludge Monitoring Frequency SLD-001

If sludge is removed for use or disposal on a routine basis (e.g., daily, weekly, quarterly, etc.), sampling should be scheduled at regular intervals throughout the year in accordance with Table E-11. If sludge is stockpiled at the treatment facility and is not removed for use or disposal within the applicable monitoring frequencies listed in Table E-11, the Discharger may collect representative samples of the sludge generated at the treatment facility with the sampling frequency listed in Table E-11 or representative composite samples may be taken from the stockpile(s) prior to use or disposal. For dredging operations where sludge will be dewatered at the treatment facility, the Discharger shall collect representative composite samples from the dewatered sludge prior to use or disposal.

² The Discharger shall submit the results of the sludge monitoring requirements listed in Tables E-10 and E-11 in an annual sewage sludge monitoring report.

- 2. In addition to the sludge monitoring requirements listed above in Tables E-10 and E-11, the Discharger shall also include the following information in the sewage sludge monitoring report:
 - **a.** The volume of sludge generated at the treatment facility that year, in dry metric tons, and the amount of sludge stockpiled from previous years.
 - **b.** The names, mailing addresses, and street addresses of persons who received sludge generated from the treatment facility. The Discharger shall specify the volume of sludge delivered and specify if the transferred sludge is to be stored, treated, placed in surface disposal sites, land applied, incinerated, disposed in municipal solid waste landfills or disposed by some other method.
 - c. For sewage sludge to be disposed in a municipal solid waste landfill, the Discharger shall certify that the sludge does not contain "free liquids" as defined by Method 9095B (Paint Filter Liquids Test), included in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (EPA Publication SW-846). The Discharger shall test the sludge using the Paint Filter Liquids Test at the frequency in Table E-9, or more frequently if necessary, to demonstrate that there are no free liquids.
 - **d.** For sewage sludge to be applied to the land or placed on a surface disposal site, the Discharger provide the following certification:
 - i. Prior to land application, the Discharger shall demonstrate that the sewage sludge achieved the operational standards for pathogen reduction levels and vector attraction reduction requirements as required in section 503.17 and section 503.15.

- **ii.** Prior to disposal in a surface disposal site, the Discharger shall demonstrate that the sewage sludge achieved the operational standards for pathogen reduction levels and vector attraction reduction requirements as required in section 503.27 and section 503.25.
- **3.** In accordance with Special Provision VI.C.5.a., Limitations and Discharge Requirements, the Discharger shall prepare a plan in which the methods of treatment, handling, storage, and disposal of sludge are described. Further, the Discharger shall maintain a copy of the solids management plan on-site and have available for review during inspection.

C. Pretreatment Monitoring

The Discharger shall provide the Regional Water Board with an annual report describing the pretreatment program activities over the previous twelve (12) month period and it shall include:

- **1.** A summary of actions taken by the Discharger which ensures industrial-user compliance;
- 2. An updated list of industrial users (by SIC categories) which were issued permits, and/or enforcement orders; and
- **3.** The name and address of each user that received a revised discharge limit.

X. REPORTING REQUIREMENTS

A. General Monitoring and Reporting Requirements

- **1.** The Discharger shall comply with all Standard Provisions (Attachment D) related to monitoring, reporting, and recordkeeping.
- 2. The Discharger shall report the results of acute and chronic toxicity testing, TRE, and TIE as required in section V, "Effluent Toxicity Testing."
- **3.** The results of any analysis taken more frequently than required using analytical methods, monitoring procedures and performed at the locations specified in this MRP shall be reported to the Regional Water Board.

B. Self-Monitoring Reports (SMRs)

 The Regional Water Board is notifying the Discharger to electronically submit Self-Monitoring Reports (SMRs) using the State Water Board's California Integrated Water Quality System (CIWQS) Program Web site (http://www.waterboards.ca.gov/ciwqs/index.html). The Discharger shall submit hard copy SMRs, until the Discharger requests to only submit electronically and the Regional Water Board approves their request. The CIWQS Web site will provide additional directions for SMR submittal in the event there will be service interruption for electronic submittal.

- 2. The Discharger shall report in the SMR the results for all monitoring specified in this MRP under sections III through IX. The Discharger shall submit monthly, quarterly, and annual SMRs including the results of all required monitoring using USEPA-approved test methods or other test methods specified in this Order. If the Discharger 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:

Sampling Frequency	Monitoring Period Begins On	Monitoring Period	SMR Due Date
Continuous	June 17, 2010	All	Submit with monthly SMR
1/Day	June 17, 2010	(Midnight through 11:59 PM) or any 24-hour period that reasonably represents a calendar day for purposes of sampling.	Submit with monthly SMR
5/Month	June 20, 2010	Sunday through Saturday	Submit with monthly SMR
1/Week	June 20, 2010	Sunday through Saturday	Submit with monthly SMR
1/Month	July 1, 2010	1 st day of calendar month through last day of calendar month	First day of second month from end of monitoring period
		January 1 through March 31	May 1
1/Quarter	July 1, 2010	April 1 through June 30	August 1
		July 1 through September 30	November 1
		October 1 through December 31	February 1
2/Year	huby 1, 2010	January 1 through June 30	First day of August
	July 1, 2010	July 1 through December 31	First day of February
1/Year	June 17, 2010	January 1 through December 31	First day of February

Table E-12. Monitoring Periods and Reporting Schedule

4. Reporting Protocols. The Discharger shall report with each sample result the applicable reported Minimum Level (ML) and the current Method Detection Limit (MDL), as determined by the procedure in Part 136.

The Discharger 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 reported ML shall be reported as measured by the laboratory (i.e., the measured chemical concentration in the sample).
- **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 as well as the words "Estimated Concentration" (may be shortened to "Est. Conc."). 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 (+ 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.** Dischargers 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 Discharger to use analytical data derived from extrapolation beyond the lowest point of the calibration curve.
- 5. Multiple Sample Data. If the permit contains an AMEL for a priority pollutant and more than one sample result is available for the pollutant, the Discharger shall report the arithmetic mean unless the data set contains one or more reported determinations of DNQ or ND. In those cases, the Discharger shall report 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.
- 6. The Discharge shall submit SMRs in accordance with the following requirements:
 - **a.** The Discharger 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 Discharger 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 Discharger shall electronically submit the data in a tabular format as an attachment.

- **b.** The Discharger shall attach a cover letter to the SMR. The information contained in the cover letter shall clearly identify violations 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), to the address listed below in Table E-13:

Table E-13. Self-Monitoring Report – Mailing Address	
Standard Mail/FedEx/UPS/Other Private Carriers	
California Degianal Water Quality Control Roard	

California Regional Water Quality Control Board Colorado River Basin Region 73-720 Fred Waring, Suite 100 Palm Desert, CA 92260

C. Discharge Monitoring Reports (DMRs)

- As described in section X.B.1 above, at any time during the term of this permit, the State or Regional Water Board may notify the Discharger to electronically submit SMRs that will satisfy federal requirements for submittal of Discharge Monitoring Reports (DMRs). Until such notification is given, the Discharger 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 Discharger shall submit the original DMR and one copy of the DMR to the address listed below in Table E-14:

Table E-14. Discharge Monitoring Reports – Mailing Address

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

3. All discharge monitoring results must be reported on the official USEPA pre-printed DMR forms (EPA Form 3320-1). Forms that are self-generated will not be accepted unless they follow the exact same format of EPA Form 3320-1.

D. Other Reports

- The Discharger shall report the results of any special studies required by Special Provisions – VI.C.2 (TRE/TIE; acute and chronic toxicity testing, Translator Study; Total Dissolved Solids Study; Spill Response Plan, Sludge Disposal and Notification Plan, and Pretreatment Reports) of this Order. The Discharger shall report the progress in satisfaction of compliance schedule dates specified in Special Provisions – VI.C.7 of this Order. The Discharger shall submit reports with the first monthly SMR scheduled to be submitted on or immediately following the report due date.
- 2. As described in section IX.B above, the Discharger shall submit a copy of the annual sewage sludge monitoring report to the Regional Water Board and USEPA. The address for the USEPA is listed below in Table E-15:

Table E-15. Sewage Sludge Monitoring Report – Mailing Address

Standard Mail/FedEx/UPS/ Other Private Carriers	
Regional Biosolids Coordinator US EPA (WTR-7) 75 Hawthorne St. San Francisco, CA 94105-3901	

3. Operations and Maintenance Report. The Discharger shall report the following as shown in Table E-16:

Activity	Reporting Frequency
To inspect and document any operation/maintenance problems by inspecting each unit process. The Discharger shall provide a certification in the annual report.	1x/Year
Calibration of flow meters and mechanical equipment shall be performed in a timely manner and documented. The Discharger shall provide a certification in the annual report.	1x/Year
The Discharger shall include documentation of all logbooks (operation and maintenance), chain of custody sheets, laboratory, and sampling activities as stated in Special Provision VI.C.4.a (Limitations and Discharge Requirements) and Standard Provisions sections IV and V (Attachment D). The Discharger shall provide a certification in the annual report.	1x/Year
The Discharger shall conduct an annual review and evaluation of priority pollutant sampling results collected each year to evaluate the impact on surface water quality, and provide this evaluation in the annual report.	1x/Year
As applicable under Special Provision VI.C.3.a, the Discharger shall submit an annual report to the Regional Water Board that shall include monitoring results for the reportable priority pollutants conducted for the Pollutant Minimization Program (PMP) for the previous year, a list of potential priority pollutant sources of the reportable priority pollutants, a summary of actions undertaken pursuant to the control strategy designed under the PMP requirements, and a description of actions to be taken in the following year to control the reportable priority pollutants.	1x/Year

Table E-16. Operations and Maintenance Report

The Discharger shall provide the Regional Water Board with an annual report describing the pretreatment program activities over the previous twelve (12) month period including a summary of actions taken by the Discharger which ensures industrial-user compliance; an updated list of industrial users (by SIC categories) which were issued permits, and/or enforcement orders; identification of each user that received a revised discharge limit, as stated in Special Provision VI.C.5.b	1x/Year
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ATTACHMENT F – FACT SHEET

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ATTACHMENT F – FACT SHEET

As described in section II 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 Dischargers 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 Discharger. Sections or subsections of this Order not specifically identified as "not applicable" are fully applicable to this Discharger.

I. PERMIT INFORMATION

The following table summarizes administrative information related to the facility.

WDID	7A330104012				
Discharger	City of Coachella and the Coachella Sanitary District				
Name of Facility	Coachella Sanitary District Wastewater Treatment Plant				
	87-075 Avenue 54				
Facility Address	Coachella, CA 92236				
	Riverside County				
Facility Contact, Title and	Jerry Jimenez, Superintendent				
Phone	(760) 391 – 5008				
Authorized Person to Sign	Jerry Jimenez, Superintendent				
and Submit Reports	Louis Galvan, Operator				
Mailing Address	1515 Sixth Street, Coachella, CA 92236				
Billing Address	SAME				
Type of Facility	POTW				
Major or Minor Facility	Major				
Threat to Water Quality	1				
Complexity	A				
Pretreatment Program	Y				
Reclamation Requirements	User Onsite				
Facility Permitted Flow	4.5 MGD				
Facility Design Flow	4.5 MGD				
Watershed	Coachella Subunit of the Whitewater Hydrologic Unit				
Receiving Water	Coachella Valley Storm Water Channel				
Receiving Water Type	Storm Water Channel				

Table F-1.Facility Information

A. The City of Coachella and the Coachella Sanitary District (hereinafter Discharger) is the owner and operator of the Coachella Sanitary District Wastewater Treatment Plant (hereinafter Facility), a Publicly Owned Treatment Works. The City of Coachella owns the property at 87-075 Avenue 54, Coachella, CA 92236 on which the Facility is located. Together the Coachella Sanitary District and the City of Coachella are hereinafter referred to as Discharger.

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 Discharger herein.

- **B.** The Facility discharges wastewater to the Coachella Valley Storm Water Channel, a water of the United States, and is currently regulated by Order R7-2005-0083 which was adopted on June 29, 2005 and expires on June 29, 2010.
- **C.** The Discharger filed a report of waste discharge (ROWD) and submitted an application for renewal of its Waste Discharge Requirements (WDRs) and National Pollutant Discharge Elimination System (NPDES) permit on December 30, 2009. Supplemental information was requested on February 5, 2010 and was received on April 5, 2010. The application was deemed complete on April 7, 2010. A site visit was conducted on December 9, 2009, to observe operations and collect additional data to develop permit limitations and conditions.

II. FACILITY DESCRIPTION

The Discharger owns and operates a wastewater collection, treatment and disposal system (hereinafter referred to as the Facility) and provides service to a population of approximately 45,000 located in the City of Coachella. The wastewater treatment plant has a treatment capacity of 4.5 MGD and is located in Section 15, T6S, R8E, SBB&M.

A. Description of Wastewater and Biosolids Treatment or Controls

The WWTP consists of a raw wastewater lift station, a headworks facility, two parallel treatment trains, a disinfection system, and sludge drying beds.

Wastewater from the community is collected in the City's domestic sewer collection system and conveyed to the plant headworks facility, where the wastewater passes through a mechanical fine screen and screenings are then removed, collected and disposed. The current headworks configuration includes a single screen in the northern channel, a second channel for a future screen, and a bypass channel with a manual bar rack. After passing through the mechanical screen, raw wastewater flows into a packaged grit chamber (i.e., a cyclone grit removal type system). The wastewater is then split by an automated flow control structure and delivered to the activated sludge treatment system and the oxidation ditch treatment system.

The activated sludge treatment system capacity is 1.5 MGD and consists of two process units operated in parallel. The activated sludge treatment system consists of two contact stabilization tanks (CSTs) that provide aeration, clarification, re-aeration, and aerobic digestion. Raw wastewater is pumped into the contact stabilization chamber and mixed with activated sludge. From the contact chamber, mixed liquor flows to the

secondary clarifier. Clarified effluent is measured at a parshall flume, located between the two CSTs, prior to being disinfected. Sodium hypochlorite is delivered at the inlet to the chlorine contact basin and sodium bisulfite is added at the end of the basin. Disinfected effluent from the activated sludge treatment system is then combined with disinfected effluent from the oxidation ditch treatment system for discharge to the Coachella Valley Storm Water Channel. As of February 2008, the activated sludge treatment system has been out of service, for cleaning, maintenance, and repair; all plant flow has been treated through the oxidation ditch treatment system. During the NPDES Permit Compliance Evaluation Inspection (CEI) conducted December 9, 2009, the Discharger indicated upgrades to the activated sludge treatment system (i.e., CSTs) should be completed in 12 to 18 months. The Discharger indicated in the supplemental application information received April 5, 2010, the proposed project design for aeration improvements and plant upgrades includes replacement of three centrifugal blowers with higher capacity centrifugal blowers; replacement of existing diffusers in aeration and re-aeration tanks and the aerobic digester with new fine bubble diffusers; update return activated sludge lift pumps with submersible pumps; update supernatant decanters; install new submersible digested sludge wasting pumps; update hypochlorite injectors; construct new sludge drying beds to supplement existing drying beds, and construct a new polymer feed facility.

The oxidation ditch treatment system was completed in March 2007 and brought online in May 2007. A State Water Board letter dated October 31, 2008 provided a Project Performance Certification. The process is characterized as a modified extended aeration activated sludge process with a relatively long sludge age. The tanks include a large aeration basin and a relatively smaller anoxic zone for de-nitrification. The process consists of the large elongated oval tanks, secondary clarifiers, and sludge pumping facilities. Raw wastewater and return activated sludge (RAS) are delivered to the anoxic tank and mixed with the mixed liquor; the mixed liquor then flows into the aeration basin. A small portion of the aeration basin flow is split off and returned to the anoxic zone to feed the secondary clarifiers: the two circular clarifiers settle and collect sludge. The settled sludge is pulled from the bottom of the clarifier and continuously pumped back into the oxidation ditch to maintain the mixed liquor concentration. As the solids concentration builds in the tanks, a portion of the settled sludge is removed from the bottom of the clarifier via sludge wasting pumps which pump the sludge to the lined drying beds on the south end of the WWTP. Clarified effluent from the clarifier flows through a closed pipe into the chlorine contact basins for disinfection. Sodium hypochlorite is delivered at the inlet to the basin and sodium bisulfite is added at the end of the basin. Flow from the chlorine contact basins passes over a weir and then travels through a Parshall flume for effluent metering before being combined with the effluent from the activated sludge treatment system (i.e., CSTs) for discharge.

The clarified effluent from the activated sludge treatment system (i.e., CSTs) and oxidation ditch treatment system is disinfected separately; each treatment train using an automated chlorine delivery system consisting of bulk sodium hypochlorite storage tanks, a vacuum regulator, and a submersible mixer/ejector. Hypochlorite delivery is paced on a chlorine residual monitored just downstream of the dosing point. The chlorinated effluent travels through the serpentine contact chamber and overtops a weir where sodium bisulfite is added to remove any remaining residual chlorine. The

bisulfite is automatically dosed based on a target residual and paced on effluent flow rate.

Following disinfection, the effluent from the activated sludge treatment system (i.e., CSTs) and oxidation ditch treatment system is combined and travels through a closed pipe under the storm channel levee along the east side of the WWTP property and is discharged from Discharge Point 001 (see table on cover page) to the Coachella Valley Storm Water Channel, a water of the United States.

B. Discharge Points and Receiving Waters

Final effluent is discharged through Discharge Point 001 at Latitude 33[°] 39' 20" North and Longitude 116[°] 08' 31" West, to the Coachella Valley Storm Water Channel. The permitted maximum daily flow limitation is equal to the design capacity of the wastewater treatment plant, which is 4.5 MGD. The discharge consists of disinfected secondary treated wastewater.

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

Effluent limitations contained in the existing Order for discharges from the oxidation pond treatment system (in operation July 2005 through July 2007) from Discharge Point 001 (Monitoring Location EFF-001A) and representative monitoring data from the term of the previous Order are as follows in Table F-2:

Table F-2.Historic Effluent Limitations and Monitoring Data (Oxidation Pond
Treatment System)

		E	ffluent Limi	itation	Monitoring Data (From July 2005 – July 2007)		
Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Highest Average Monthly Discharge	Highest Average Weekly Discharge	Highest Daily Discharge
Flow	MGD	0.9			1.3 ¹		1.8 ²
Removal Efficiency for Biochemical Oxygen Demand (BOD) 5-day at 20 °C	%	65			70 ³		
Removal Efficiency for Total Suspended Solids (TSS)	%	65			70 ⁴		

¹ This value represents the highest average monthly flow value (July 2006).

² This value represents the highest reported flow value (June 2006).

³ This value represents the lowest reported value of the minimum percent removal of BOD.

⁴ This value represents the lowest reported value of the minimum percent removal of TSS.

Effluent limitations contained in the existing Order for discharges from the oxidation ditch treatment system (operation began July 2007) from Discharge Point 001 (Monitoring Location EFF-001D) and representative monitoring data from the term of the previous Order are as follows in Table F-3:

Table F-3.	Historic Effluent Limitations and Monitoring Data (Oxidation Ditch
Treatment S	System)

		E	ffluent Lim	itation	Monitoring Data (From July 2007 – September 2009)			
Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Highest Average Monthly Discharge	Highest Average Weekly Discharge	Highest Daily Discharge	
Flow	MGD	3.0			2.9 ¹		3.4 ²	
Removal Efficiency for BOD	%	85			95.6 ³			
Removal Efficiency for TSS	%	85			95.6 ⁴			

¹ This value represents the highest average monthly flow value (May, June, and September 2009).

² This value represents the highest reported flow value (August 2009).

³ This value represents the lowest reported value of the minimum percent removal of BOD.

⁴ This value represents the lowest reported value of the minimum percent removal of TSS.

Effluent limitations contained in the existing Order for discharges from the activated sludge treatment system from Discharge Point 001 (Monitoring Location EFF-001B) and representative monitoring data from the term of the previous Order are as follows in Table F-4:

Table F-4.Historic Effluent Limitations and Monitoring Data (Activated Sludge
Treatment System)

		E	ffluent Limi	itation	Monitoring Data (From July 2005 – January 2008 ¹)			
Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Highest Average Monthly Discharge	Highest Average Weekly Discharge	Highest Daily Discharge	
Flow	MGD	1.5			1.6 ²		2.2 ³	
Removal Efficiency for BOD	%	85			78 ⁴			
Removal Efficiency for TSS	%	85			73 ⁵			

¹ The activated sludge treatment plant was taken off-line for maintenance, cleaning, and repairs in February 2008.

² This value represents the highest average monthly flow value (July and December 2005 and March and October 2006).

³ This value represents the highest reported flow value (January and May 2006).

⁴ This value represents the lowest reported value of the minimum percent removal of BOD (July 2007). All other values were in compliance with the minimum percent removal requirement.

⁵ This value represents the lowest reported value of the minimum percent removal of TSS (October 2006). The Discharger violated the minimum percent removal requirement five times (June, July, September, and October 2006; and November 2007); reported values in compliance with the minimum percent removal effluent limitation ranged from 85 to 98 percent.

Effluent limitations contained in the existing Order for combined discharges from the activated sludge treatment system and oxidation pond treatment system from Discharge Point 001 (Monitoring Location EFF-001C) and representative monitoring data from July 2005 to June 2007 are as follows in Table F-5:

Table F-5.Historic Effluent Limitations and Monitoring Data (CombinedDischarges)

		E	ffluent Limitat	ion	(From Ju	Monitoring Data (From July 2005 – June 2007)			
Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Highest Average Monthly Discharge	Highest Average Weekly Discharge	Highest Daily Discharge		
BOD_5	mg/L	36	52		53	78			
0005	lbs/day	720	1,041		1,022	1,524			
TSS	mg/L	36	52		53	58			
100	lbs/day	720	1,041		1,008	1,196			
рН	s.u.			$6.0 - 9.0^{1}$			$6.9 - 7.7^2$		
Copper ³	μg/L	12		12	16		16		
Copper	lbs/day	0.24		0.24	0.36		0.37		
Mercury	μg/L	0.051		0.102	All are ND		All are ND		
mercury	lbs/day	0.001		0.002	All are ND		All are ND		
Selenium	μg/L	4.1		8.2	3		3		
Selemum	lbs/day	0.08		0.16	0.052		0.052		
Zinc ³	μg/L	150		150	170		170		
ZINC	lbs/day	3		3	3.5		3.5		
Free Cyanide ³	μg/L	13		13	All are ND		All are ND		
Free Cyanide	lbs/day	0.26		0.26	All are ND		All are ND		
Bis(2-	μg/L	8.5		11.8	12		12		
ethylhexyl)Phthalate ³	lbs/day	0.17		0.24	0.27		0.28		
4,4'-DDE ³	μg/L	0.0027		0.0027	0.018 (DNQ)		0.018 (DNQ)		
	lbs/day	0.00054		0.00054	4.05 ⁴		4.05 ⁴		
4,4'-DDT ³	μg/L	0.02		0.02	0.018 (DNQ)		0.018 (DNQ)		
	lbs/day	0.0004		0.0004	4.05 ⁴		4.05 ⁴		
Hentechler Enevide ³	μg/L	0.01		0.01	All are ND		All are ND		
Heptachlor Epoxide ³	lbs/day	0.0002		0.0002	All are ND		All are ND		
Desidual Oblarias	mg/L	0.01		0.02	0.0085		0.02		
Residual Chlorine	lbs/day	0.20		0.40	0.018		0.43		
Total Dissolved Solids (TDS)	mg/L			2,500			700		
<i>Escherichia coli</i> (E. coli)	MPN/ 100 ml	126 ⁵		400 ⁶			170		
Nitrates as N	mg/L						7.4		

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		E	ifluent Limita	tion		lonitoring Data uly 2005 – Jun	
Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Highest Average Monthly Discharge	Highest Average Weekly Discharge	Highest Daily Discharge
Nitrites as N	mg/L						1.6
Total Nitrogen	mg/L						58
Ammonia as N	mg/L						31
Total Phosphate	mg/L						9.3
Orthophosphate	mg/L						7.7
Sulfate	mg/L						67
Chloride	mg/L						79
Hardness	mg/L						83
Temperature	°C						33
Oil and Grease	mg/L						5,700
Acute Toxicity (<i>Ceriodaphnia dubia</i>)	% Survival		7				0-100
Chronic Toxicity (<i>Ceriodaphnia dubia</i>)	TUc		7				1 – 2
Chronic Toxicity - Reproduction (<i>Ceriodaphnia dubia</i>)	ΤU _c		7				1 – 4
Acute Toxicity (<i>Pimephales</i> <i>promelas</i>)	% Survival	7					65 – 100
Chronic Toxicity - Survival (<i>Pimephales</i> <i>promelas</i>)	TUc	7					1
Chronic Toxicity – Growth (<i>Pimephales</i> <i>promelas</i>)	TUc		7				1 – 2

¹ This range represents the instantaneous minimum and maximum pH limitations, respectively.

² This represents the range of reported pH values.

³ Order R7-2005-0083 established interim effluent limitations for copper, zinc, free cyanide, bis(2-ethylhexyl)phthalate, 4,4'-DDE, 4,4'-DDT, and heptachlor epoxide that were effective through June 29, 2009; therefore, the final effluent limitations established in section IV.A.1.c of Order R7-2007-0083 were not in effect during the period represented in Table F-5, above.

⁴ This value represents the mass emission calculated using the estimated concentration reported as Detected, but Not Quantified (DNQ) in June 2007.

⁵ Based on a minimum of not les than five samples for any 30-day period.

⁶ No sample shall exceed 400 MPN/100 ml.

⁷ Section IV.A.1.h of Order R7-2005-0083 states "there shall be no acute or chronic toxicity in the treatment plant effluent nor shall the treatment plant effluent cause any acute or chronic toxicity in the receiving water." Effluent limitations contained in the existing Order for combined discharges from the activated sludge treatment system and oxidation ditch treatment system from Discharge Point 001 (Monitoring Location EFF-001C) and representative monitoring data from July 2007 to September 2009 are as follows in Table F-6:

Table F-6.	Historic Effluent Limitations and Monitoring Data (Combined
Discharges	

		Eff	luent Limitation		Monitoring Data (From July 2007 – September 2009)		
Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Highest Average Monthly Discharge	Highest Average Weekly Discharge	Highest Daily Discharge
BOD ₅	mg/L	30	45		19	65	
	lbs/day	1,126	1,689		361	1,137	
TSS	mg/L	30	45		28	92	
100	lbs/day	1,126	1,689		563	1,837	
рН	s.u.			$6.0 - 9.0^{1}$			$6.89 - 7.48^2$
Conner (Interim)	μg/L	12		12	11		19
Copper (Interim)	lbs/day	0.45		0.45	0.218		0.369
	μg/L	2.99		5.78	2.5		3.1
Copper (Final)	lbs/day	0.11		0.22			
Maria	μg/L	0.051		0.102	All are ND		All are ND
Mercury	lbs/day	0.002		0.004	All are ND		All are ND
0 I I	μg/L	4.09		8.21	All are ND		All are ND
Selenium	lbs/day	0.15		0.31	All are ND		All are ND
	μg/L	150		150	113		170
Zinc (Interim)	lbs/day	5.6		5.6	2.14		3.31
	μg/L	47.42		95.14	47		58
Zinc (Final)	lbs/day	1.78		3.57	1.14		1.13
Free Cyanide	μg/L	13		13	All are ND		All are ND
(Interim)	lbs/day	0.49		0.49	All are ND		All are ND
	μg/L	4.3		8.5	All are ND		All are ND
Free Cyanide (Final)	lbs/day	0.16		0.32	All are ND		All are ND
Bis(2-	μg/L	8.5		11.8	5.8		5.8
ethylhexyl)Phthalate (Interim)	lbs/day	0.32		0.44	0.121		0.119
Bis(2-	μg/L	5.9		11.8	All are ND		All are ND
ethylhexyl)Phthalate (Final)	lbs/day	0.22		0.44	All are ND		All are ND
4 4' DDE (Interim)	μg/L	0.0027		0.0027	All are ND		All are ND
4,4'-DDE (Interim)	lbs/day	0.0001		0.0001	All are ND		All are ND
	μg/L	0.00059		0.00118	All are ND		All are ND
4,4'-DDE (Final)	lbs/day	0.000022		0.000044	All are ND		All are ND
4,4'-DDT (Interim)	μg/L	0.02		0.02	All are ND		All are ND
4,4 - UUI (INLERIIII)	lbs/day	0.0008		0.0008	All are ND		All are ND
	μg/L	0.00059		0.00118	All are ND		All are ND
4,4'-DDT (Final)	lbs/day	0.000022		0.000044	All are ND		All are ND
Heptachlor Epoxide	μg/L	0.01		0.01	All are ND		All are ND

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		Eff	luent Limitat	ion		Monitoring Da y 2007 – Septe	
Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Highest Average Monthly Discharge	Highest Average Weekly Discharge	Highest Daily Discharge
(Interim)	lbs/day	0.0004		0.0004	All are ND		All are ND
Heptachlor Epoxide	μg/L	0.00011		0.00022	All are ND		All are ND
(Final)	lbs/day	0.0000041		0.000083	All are ND		All are ND
Residual Chlorine	mg/L	0.01		0.02	0.012		0.027
Residual Chionne	lbs/day	0.20		0.40	0.251		0.65
Total Dissolved Solids (TDS)	mg/L			2,500			470
<i>Escherichia coli</i> (E. coli)	MPN/ 100 ml	126 ¹		400 ²	73		500
Nitrates as N	mg/L						105
Nitrites as N	mg/L						15
Total Nitrogen	mg/L						34
Ammonia as N	mg/L						27
Total Phosphate	mg/L						6.6
Orthophosphate	mg/L						5.7
Sulfate	mg/L						81
Chloride	mg/L						77
Hardness	mg/L						97
Temperature	°C						33.1
Oil and Grease	mg/L						<0.8
Acute Toxicity (<i>Ceriodaphnia dubia</i>)	% Survival		3				100
Chronic Toxicity (<i>Ceriodaphnia dubia</i>)	ΤUc		3				1
Chronic Toxicity - Reproduction (<i>Ceriodaphnia dubia</i>)	TUc		3				1
Acute Toxicity (<i>Pimephales</i> <i>promelas</i>)	% Survival	3					100
Chronic Toxicity - Survival (<i>Pimephales</i> <i>promelas</i>)	TUc	3					1
Chronic Toxicity – Growth (<i>Pimephales</i> <i>promelas</i>)	TUc		3				1

Based on a minimum of not les than five samples for any 30-day period.

² No sample shall exceed 400 MPN/100 ml. ³ Section IV A 1 h of Order PZ 2005 0082 dd

Section IV.A.1.h of Order R7-2005-0083 states "there shall be no acute or chronic toxicity in the treatment plant effluent nor shall the treatment plant effluent cause any acute or chronic toxicity in the receiving water."

The ROWD described the existing discharge as follows:

Annual Average Effluent Flow - 2.0 MGD (2009)

Maximum Daily Effluent Flow - 2.9 MGD (2009)

The ROWD described the effluent characteristics in Table F-7 as follows:

Parameter	Units	Maximum Daily	Average Daily
pH (Minimum)	s.u.	6.44	
pH (Maximum)	s.u.	7.28	
Temperature (Winter)	C	24.8	20.1 ¹
Temperature (Summer)	°C	33.1	29.1 ²
Biochemical Oxygen Demand	mg/L	43.0	5.0
Fecal Coliform	MPN/100 mL	Not Reported	Not Reported
Total Suspended Solids	mg/L	18.0	6.7
Ammonia as Nitrogen	mg/L	0.95	0.48
Chlorine, Total Residual	mg/L	0.01	0.00
Dissolved Oxygen	mg/L	3.60	3.40
Total Kjeldahl Nitrogen	mg/L	2.00	1.57
Nitrate plus Nitrite Nitrogen	mg/L	0.29	0.19
Oil and Grease	mg/L	11.0	8.2
Phosphorus	mg/L	3.60	1.64
Total Dissolved Solids	mg/L	390	347
Antimony ³	μg/L	0.40 (DNQ)	0.27
Arsenic ³	μg/L	2.20	1.83
Cadmium ³	μg/L	0.32	0.14
Chromium (Total) ³	μg/L	10.0	5.80
Copper ³	μg/L	12.0	5.90
Lead ³	μg/L	0.50 (DNQ)	0.27
Nickel ³	μg/L	2.0	1.63
Selenium ³	μg/L	0.80	0.70
Zinc ³	μg/L	69.0	56.0
Chloroform ^{3,4}	μg/L	20.0	
Methylene Chloride ^{3,4}	μg/L	0.27	
Toluene ³	μg/L	1.40	

 Table F-7.
 Effluent Characteristics

Parameter	Units	Maximum Daily	Average Daily
1,4-Dichlorobenzene ³	μg/L	0.93	
Bis(2-ethylhexyl)phthalate ³	μg/L	6.4	

1 The ROWD indicated an average daily value of 68.10; it appears the value reported on the ROWD is in degrees Fahrenheit (°F); therefore, this value represents the conversion of 68.10 °F to °C.

2 The ROWD indicated an average daily value of 84.30; it appears the value reported on the ROWD is in degrees Fahrenheit (°F); therefore, this value represents the conversion of 84.30 °F to °C.

The Discharger also provided analytical results for additional priority pollutants in the ROWD; however; no detections were reported for any analyzed pollutants.

D. Compliance Summary

The available effluent monitoring data and enforcement correspondence (as summarized in the Enforcement Summary presented in Table F-9, below) indicate that the Discharger exceeded certain effluent limitations contained in Order R7-2005-0083, including the limitations for effluent flow (oxidation pond and activated sludge treatment plants), minimum percent removal requirements for BOD₅, TSS (oxidation pond and activated sludge treatment plants), BOD₅, TSS, E. coli, chlorine residual, copper (interim), zinc (interim), bis(2-ethylhexyl)phthalate (interim), 4,4'-DDE, and whole effluent toxicity. There are numerous violations referenced in Administrative Civil Liability Complaints and Orders; they will not be listed individually in Table F-8, but rather, summarized by category.

Table F-8 summarizes the violations for all other effluent limitations which apply to the Facility during the permit term.

Period of Violations	Violation Type	Parameter	No. of Violations	Range of Reported Effluent Values	Permit Limitation	Units
July 2006 – June 2007	Average Monthly	Effluent Flow (Oxidation Pond Treatment Plant) ¹	17	1.0 – 1.3	0.9	MGD
July 2005 – October 2006	Average Monthly	Effluent Flow (Activated Sludge Treatment Plant - ASTP)	4	1.6 ²	1.5	MGD
July 2007 and November 2007	Average Monthly	Percent Removal BOD	2	78 – 79	85	%
July 2006 – October 2006	Average Monthly	Percent Removal TSS – ASTP	3	76 – 84	85	%
April 2006 – February 2007	Average Monthly	Bis(2- ethylhexyl)phthalate	5	8.9 – 12	8.5 ³	μg/L
August 2006 –	Average Monthly	Bis(2-	4	0.18 –	0.17	lbs/day

 Table F-8.
 Compliance Summary

³ The Discharger indicated in Part D of EPA Form 2A the data reported for priority pollutants is based on yearly values sampled on December 13, 2006, December 19, 2007, and December 12, 2008. The data were verified against the reports attached to the ROWD. It appears the Discharger erroneously indicated in Part D of EPA Form 2A the units are "mg/L"; the reporting forms attached to the ROWD indicate the units for priority pollutants are "μg/L."

⁴ The Discharger mistakenly indicated detected concentrations for chloroethane and methyl chloride in Part D of Form 2A. The data reported in Table F-3, above, are based on the reporting forms attached to the ROWD.

COACHELLA SANITARY DISTRICT COACHELLA SANITARY DISTRICT WASTEWATER TREATMENT PLANT

Period of Violations	Violation Type	Parameter	No. of Violations	Range of Reported Effluent Values	Permit Limitation	Units
February 2007		ethylhexyl)phthalate		0.27		
October 2006 – December 2006	Average Monthly	TSS	3	44 – 53	36	mg/L
October 2006 – December 2006	Average Monthly	TSS	3	854 – 1,008	720	lbs/day
October 2006 – November 2007	Average Weekly	TSS	6	54 – 57	52	mg/L
October 2006 – November 2007	Average Weekly	TSS	4	1,051 – 1,174	1,041	lbs/day
November 2006 and December 2006	Average Monthly	BOD	2	45 – 53	36	mg/L
November 2006 and December 2006	Average Monthly	BOD	2	863 – 1,022	720	lbs/day
November 2006 – January 2007	Average Weekly	BOD	5	59 – 72	52	mg/L
November 2006 – January 2007	Average Weekly	BOD	4	1150 – 1,343	1,041	lbs/day
June 2008	Average Monthly	Chlorine Residual	1	0.012	0.01	mg/L
June 2009	Instantaneous Maximum	Chlorine Residual	1	0.027	0.02	mg/L
February 2007	Instantaneous Maximum	Chlorine Residual	1	0.43	0.4	lbs/day
June 2006 and August 2007	Maximum Daily	Copper	2	16 – 19	12 ³	µg/L
June 2006	Average Monthly	Copper	1	16	12 ³	μg/L
October 2005 – April 2009	Maximum Daily	Zinc	3	160 – 170	150 ³	μg/L
August 2007	Maximum	E. Coli	1	500	400	MPN/100 ml
June 2007	Maximum	4,4'-DDE 1		0.018 (DNQ) ⁴	0.0027 ³	μg/L

¹ The oxidation pond treatment system was taken off-line in July 2007 and replaced with a new oxidation ditch treatment system.

² The Discharger violated the average monthly flow limitation for the activated sludge treatment system four times, all measured at 1.6 MGD (July and December 2005 and March and October 2006).

³ Order R7-2005-0083 established interim effluent limitations for bis(2-ethylhexyl)phthalate, copper, zinc, and 4,4'-DDE effective through June 29, 2009.

⁴ This value was reported as "Detected, but Not Quantified (DNQ); this value represents an estimated concentration.

Table F-9 summarizes the instances where the chronic and acute toxicity triggers were exceeded during the permit term.

Table F-9. Enforcement Summary

Enforcement Action	Date	Date of Violation(s)	Description
Cease and Desist Order	March 18, 2010	November 2009	Addresses exceedances of MDEL/AMELs for copper and zinc.

Enforcement Action	Date	Date of Violation(s)	Description
R7-2010-0016			Requires the Discharger to prepare a Biological Assessment of the Coachella Valley Storm Water Channel (at discharge point) for consideration of alternative freshwater aquatic life criteria; prepare and implement a Pollution Prevention Plan; and achieve compliance with final effluent limitations by September 30, 2010.
Administrative Civil Liability Complaint (ACLC) R7- 2009-0073	September 9, 2009	November 2008 April 2009	Noncompliance with <i>E. Coli</i> (11/2008) and Zinc (4/2009) effluent limitations. ACLC proposed to assess a MMP of \$3,000 for the violation of the Zinc effluent limitation on 4/22/2009.
Administrative Civil Liability Order (ACLO) R7-2008-0071	November 19, 2008	June 2006 – November 2007	Assessed \$199,000 in ACL penalties. The Order specified implementation of proposed Supplemental Environmental Project (SEP) ¹ and payment of a reduced penalty (\$94,500).
ACLC R7- 2008-0016	August 27, 20008	June 2006 – November 2007	Notifies Discharger of assessed ACL penalties in the amount of \$199,000 for the violations of effluent limitations for copper, residual chlorine, bis(2- ethylhexyl)phthalate, BOD, TSS, and effluent flow (30-d average).
ACLO R7- 2007-0055	May 16, 2007	July 2005 – July 2006	Assessed \$142,000 in ACL penalties. The Order specified implementation of proposed SEP ³ and payment of a reduced penalty (\$63,500).
ACLC R7- 2007-0021		July 2005 – July 2006	Notifies Discharger of assessed ACL penalties in the amount of \$142,000 for the violations of effluent limitations for copper, zinc, bis(2- ethylhexyl)phthalate, BOD, TSS, and effluent flow (30-d average).
Notice of Noncompliance (NON)	March 2006 – August 2007	July 2005 – April 2007	Noncompliance with Effluent Flow AMEL (Oxidation Pond System); 17 occurrences.
NON	March, June, December 2006	July, December 2005; March, October 2006	Noncompliance with Effluent Flow AMEL (Activated Sludge System)
NON	November 2007; January 2009	August 2007; November 2008	Noncompliance with <i>E. Coli</i> MDEL; 2 occurrences.
NON	August 2006; January, August 2007	June, November, December 2006; January 2007	Noncompliance with BOD AWEL; 4 occurrences.
NON	August 2006; January, August 2007	June, November, and December 2006	Noncompliance with BOD AMEL; 3 occurrences.
NON	June, August, December 2006; January, August 2007; February 2008	February, April, June, October – December 2006; November 2007	Noncompliance with TSS AWEL; 7 occurrences.

Enforcement Action	Date	Date of Violation(s)	Description
NON	June, August, December 2006; January 2007	February, April, June, October – December 2006	Noncompliance with TSS AMEL; 6 occurrences.
NON	March, June, August, December 2006; August 2007	July 2005; April, June, August 2006; February 2007	Noncompliance with Bis(2- ethylhexyl)phthalate interim effluent limitations; 5 occurrences.
NON	March 2006; November 2007	October 2005; August 2007	Noncompliance with Zinc interim effluent limitations; 2 occurrences.
NON	August 2006; November 2007	June 2006; August 2007	Noncompliance with Copper interim effluent limitations; 2 occurrences.
NON	August, September, December 2006	June, July, September, October 2006	Noncompliance with monthly average percent (%) removal efficiency for TSS
NON	November 2007; February 2008	July, November 2007	Noncompliance with monthly average % removal efficiency for BOD
NON	March, June 2006	July, August, September – December 2005; January 2006	Noncompliance with minimum sampling frequencies for BOD and TSS

¹ ACLO R7-2008-0071 indicates the Discharger shall pay a reduced penalty amount (\$94,500) and implement the proposed Drainage System and Catch Basin SEP.

Five compliance evaluation inspections (CEIs) were conducted during the permit term. The major findings are summarized as follows:

The December 9, 2009 CEI reported a violation of the zinc effluent limitation and indicated that pH analyses were conducted beyond the 15-minute holding time on two occasions in 2009. In addition, the CEI reported a pipe segment in the outfall pipe to Outfall No. 1 has become dislodged and the discharge is pouring into a pool and causing severe erosion to an area not directly adjacent to the main channel of the Coachella Valley Storm Water Channel.

The March 23, 2009 CEI reported a violation of the E. coli effluent limitation and noted improper measurement of flow. The Discharger is calibrating flow meters annually and had not had any E. coli violations at the time of the next CEI (December 9, 2009).

The May 7, 2008 CEI reported that self-monitoring reports (SMRs) were not being signed by duly authorized personnel; daily facility flow values were not reported accurately on the Facility's "Flow Chart Sheet", yet were reported on SMRs submitted to the Regional Water Board; records of sampling events were not documented in the Facility's "Sampling Log Book"; lack of documentation of pH sampling results for a week, and lack of information in the Facility's Operator Log documenting operations and activities. Further, the report indicated the flow meters did not appear to calibrated properly; that TSS samples (influent and effluent) are analyzed at the on-site laboratory, yet the on-site laboratory is not certified for such analyses by the State Department of Health Services; and that residual chlorine samples were being analyzed using a method that is not approved by Part 136 for residual chlorine at wastewater treatment plants. In addition, the CEI reported that sludge from the oxidation pond was being disposed of improperly, in an area not designated as an approved sludge disposal area.

The April 16, 2007 CEI noted two annual reports were not submitted (status reports required

by the Compliance Plan and the PMP); effluent limitation violations for TSS, BOD, and bis(2ethylhexyl)phthalate; and the Discharger changed the monitoring location representing the recombined effluent flows without notification to and approval by the Regional Water Board.

The March 1, 2006 CEI indicated the Discharger's SMRs had not included all the data required by the Monitoring and Reporting Program and that the Discharger was not sampling for TSS in the combined effluent at the frequency required by the Monitoring and Reporting Program.

E. Planned Changes

The Discharger indicated in the supplemental application information received April 5, 2010, the proposed project design for aeration improvements and plant upgrades includes replacement of three centrifugal blowers with higher capacity centrifugal blowers; replacement of existing diffusers in aeration and re-aeration tanks and the aerobic digester with new fine bubble diffusers; update return activated sludge lift pumps with submersible pumps; update supernatant decanters; install new submersible digested sludge wasting pumps; update hypochlorite injectors; construct new sludge drying beds to supplement existing drying beds, and construct a new polymer feed facility.

III. APPLICABLE PLANS, POLICIES, AND REGULATIONS

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

A. Legal Authorities

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

B. California Environmental Quality Act (CEQA)

Under Water Code section 13389, this action to adopt an NPDES permit is exempt from the provisions of Chapter 3 of CEQA, commencing with Section 21100 of the Public Resources Code.

C. State and Federal Regulations, Policies, and Plans

1. Water Quality Control Plans. The Regional Water Quality Control Board (Regional Water Board) adopted a Water Quality Control Plan for the Colorado River Basin (hereinafter Basin Plan) on November 17, 1993 that designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for all waters addressed through the plan (including amendments adopted by the Regional Water Board to date). In addition, the Basin Plan implements State Water Resources Control Board (State

Water Board) Resolution No. 88-63, which established state policy that all waters, with certain exceptions, should be considered suitable or potentially suitable for municipal or domestic supply. Consistent with this state policy, effluent limitations specified in this Order protect existing and potential beneficial uses of the Coachella Valley Storm Water Channel, which are described in Table F-10:

Table F-10. Basin Plan Beneficial Uses

Discharge Point	Receiving Water Name	Beneficial Uses
001	Coachella Valley Storm Water Channel ¹	Existing: Fresh Water Replenishment (FRSH); Water Contact Recreation (REC-I) ² ; Non-Contact Water Recreation (REC-II) ² ; Warm Freshwater Habitat (WARM); Wildlife Habitat (WILD); and Support of Rare, Threatened, or Endangered Species (RARE) ³ .

Section of perennial flow from approximately Indio to the Salton Sea.

² Unauthorized use.

Rare, endangered, or threatened wildlife exists in or utilizes some of these waterway(s). If the RARE beneficial use may be affected by a water quality control decision, responsibility for substantiation of the existence of rare, endangered, or threatened species on a case-by case basis is upon the California Department of Fish and Game on its own initiative and/or at the request of the Regional Water Board; and such substantiation must be provided within a reasonable time frame as approved by the Regional Water Board.

Requirements of this Order implement the Basin Plan.

- 2. Thermal Plan. The State Water Board adopted a Water Quality Control Plan for Control of Temperature in the Coastal and Interstate Water and Enclosed Bays and Estuaries of California (Thermal Plan) on May 18, 1972, and amended this plan on September 18, 1975. This plan contains temperature objectives for surface waters. The Thermal Plan does not apply to these discharges to the Coachella Valley Storm Water Channel because storm water channels do not have a "natural" receiving water temperature.
- **3.** 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 water quality criteria for priority pollutants.
- 4. State Implementation Policy. 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.

- 5. Emergency Planning and Community Right to Know Act. Section 13263.6(a), CWC, requires that "the Regional Water Board shall prescribe effluent limitations as part of the WDRs of a POTW for all substances that the most recent toxic chemical release data reported to the state emergency response commission pursuant to Section 313 of the Emergency Planning and Community Right to Know Act of 1986 (42 U.S.C. Sec. 11023) (EPCRKA) indicate as discharged into the POTW, for which the State Water Board or the Regional Water Board has established numeric water quality objectives, and has determined that the discharge is or may be discharged at a level which will cause, have the reasonable potential to cause, or contribute to, an excursion above any numeric water quality objective."
- 6. Storm Water Requirements. USEPA promulgated Federal Regulations for storm water on November 16, 1990 in 40 CFR Parts 122, 123, and 124. The NPDES Industrial Storm Water Program regulates storm water discharges from wastewater treatment facilities. Wastewater treatment plants are applicable industries under the storm water program and are obligated to comply with the Federal Regulations.
- 7. Endangered Species Act. 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 Endangered Species Act (California Fish and Game Code section 2050 to 2097) or the Federal Endangered Species Act (16 U.S.C. 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. The Discharger is responsible for meeting all requirements of the applicable Endangered Species Act.
- 8. Alaska Rule. On March 30, 2000, USEPA revised its regulation that specifies when new and revised state and tribal water quality standards (WQS) become effective for CWA purposes (40 C.F.R. § 131.21, 65 Fed. Reg. 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.
- **9.** Stringency of Requirements for Individual Pollutants. This Order contains both technology-based and water quality-based effluent limitations for individual pollutants. The technology-based effluent limitations consist of restrictions on BOD₅, TSS, and pH are specified in Federal regulations as discussed in Part 133 and the Permit's technology-based pollutant restrictions are no more stringent than required by the CWA. This Order's technology-based pollutant restrictions implement the minimum, applicable federal technology-based requirements. Water quality-based effluent limitations have been scientifically derived to implement water quality objectives that protect beneficial uses. Both the beneficial uses and the water quality objectives have been approved pursuant to federal law and are the applicable federal water quality standards. To the extent that toxic pollutant water

quality-based effluent limitations were derived from the CTR, the CTR is the applicable standard pursuant to Title 40, CFR section 131.38.¹ The scientific procedures for calculating the individual water quality-based effluent limitations are based on the CTR-SIP, which was approved by the USEPA on May 18, 2000. All beneficial uses and water quality objectives contained in the Basin Plan were approved under State law and submitted to and approved by USEPA prior to May 30, 2000. Any water quality objectives 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 section 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.

10. Antidegradation Policy. Section 131.12 requires that the state water quality standards include an antidegradation policy consistent with the federal policy. The State Water Board established California's antidegradation policy in State Water Board Resolution No. 68-16. Resolution No. 68-16 incorporates the federal antidegradation policy where the federal policy applies under federal law. Resolution No. 68-16 requires discharges to waters of the State be regulated to achieve the "highest water quality consistent with maximum benefit to the State." It also establishes the intent that where waters of the State are of higher quality than that required by state policies, including Water Quality Control Plans, such higher quality "shall be maintained to the maximum extent possible" unless it is demonstrated that any change in quality will be consistent with maximum benefit to people of the State, will not unreasonably affect beneficial uses, and will not result in water quality less than that described in plans and policies (e.g., violation of any water guality objective). The discharge is also required to meet waste discharge requirements that result in the best practicable treatment or control necessary to assure that pollution or nuisance will not occur, and that the highest water quality consistent with maximum benefit to the people will be maintained.

The source water for the City of Coachella and the entire Coachella Valley is the groundwater. Average annual precipitation in the Coachella Valley is insignificant (less than 3 inches/year in the valleys). Runoff resulting from rains and snowmelt at the higher elevations is the major source of groundwater replenishment. The Whitewater River is the major drainage course in the Coachella Valley. There is perennial flow in the mountains, but because of diversions and percolation into the basin, the Whitewater River becomes dry further downstream. The constructed downstream extension of the Whitewater River channel known as the Coachella Valley Storm Water Channel, serves as drainage way for irrigation return flows, treated community wastewater, and storm runoff.

The Coachella Valley Storm Water Channel is constructed channel, typically with no flows immediately upstream from the discharge point. It also carries discharges from WWTPs; irrigation return flows, and storm water runoff. The flows in the Coachella Valley Storm Water Channel may also contain pollutants (e.g., pathogens, trash, VOCs, pesticides, nutrients, raw sewage, BOD₅, and metals) that impaired the Coachella Valley Storm Water Channel's beneficial uses. Consequently,

¹All further regulatory references are to title 40 of the Code of Federal Regulations unless otherwise indicated.

"background" water quality in Coachella Valley Storm Water Channel is difficult to establish for the purpose of conducting a typical antidegradation analysis. It is likely that flows that drain to the Channel contain pollutants at concentrations that violate certain Basin Plan water quality objectives for those pollutants, in particular, pesticides, silt/sediment, and selenium. Flows to the Coachella Valley Storm Water Channel also contain nutrients (e.g., phosphorus) at concentrations that contribute to the nutrient impairment of the Salton Sea. The agricultural return flows are essentially free of BOD₅ and fecal coliform bacteria and have pH well within the receiving water quality objective of 6.0 to 9.0 pH units.

The discharge from the WWTP contains conventional pollutants (BOD₅, TSS, fecal coliform bacteria, oil and grease, and pH) that are controlled through best practicable control technology currently available (BPT) and best available technology economically achievable (BCT) to prevent exceedances of the receiving water quality objectives for those pollutants and prevent adverse impacts on the REC-I and REC-II beneficial uses of the Coachella Valley Storm Water Channel. The discharge also contains TDS, but at concentrations significantly below the 2,000 mg/L TDS WQO for the receiving water. The discharge from the WWTP does not contain any of the 303(d) List of impairing pollutants for the receiving water at detectable levels. Therefore, the discharge is not likely to contribute to exceedances of the WQOs for 303(d) List pollutants.

Copper, zinc, and bis(2-ethylhexyl)phthalate have been measured in the effluent and are being controlled through WQBELs derived from water quality criteria established in the CTR. The established WQBELs for copper, zinc, and bis(2-ethylhexyl)phthalate prevent adverse impacts of the REC-I and REC-II beneficial uses of the Coachella Valley Storm Water Channel and ensure compliance with the Basin Plan. Nevertheless, the BOD₅, TSS, bacteria, copper, zinc, and bis(2-ethylhexyl)phthalate in the discharge are likely to lower water quality in the receiving water (i.e., cause degradation). For conventional pollutants, including BOD₅, TSS, oil and grease, and bacteria, this degradation is restricted to pollutants associated with domestic wastewater, is localized and will not result in water quality less than prescribed in the Basin Plan.

The discharge from the WWTP as permitted herein reflects best practicable treatment and control (BPTC) for the subject wastewater. The control is intended to assure that the discharge does not create a condition of pollution or nuisance and that the highest "background" water quality as defined above will be maintained. The WWTP incorporates:

- a. technology for secondary treated domestic wastewater;
- b. effluent disinfection;
- c. sludge handling facilities;
- d. an operation and maintenance manual;
- e. staffing to assure proper operation and maintenance; and
- f. a standby emergency power generator of sufficient size to operate the necessary treatment units during periods of loss of commercial power.

The discharge is necessary to accommodate economic development in the area and essential public services for the City of Coachella and Riverside County, which are an important benefit to the State. Based on the foregoing, the discharge as permitted herein is consistent with Resolution No. 68-16.

11. Anti-Backsliding Requirements. Sections 402(o)(2) and 303(d)(4) of the CWA and federal regulations at title 40, Code of Federal Regulations section 122.44(l) prohibit 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.

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

The immediate receiving water is the Coachella Valley Storm Water Channel. The 2006 USEPA CWA Section 303(d) List classifies segments of the Coachella Valley Storm Water Channel as impaired by pathogens and toxaphene. A TMDL has not yet been developed for toxaphene; however, a TMDL is under development for pathogens.

Finally, the Salton Sea is listed as impaired by: (1) nutrients, (2) salt, and (3) metals (selenium). No TMDLs have been developed to date for the Salton Sea, although a nutrient TMDL is under development. Tributaries to the Salton Sea, including the Coachella Valley Storm Channel and Imperial Valley Drains, may be affected by the nutrient TMDL and any others developed for the Salton Sea. Furthermore, the Basin Plan establishes selenium objectives for tributaries to the Salton Sea.

E. Other Plans, Policies and Regulations

Federal regulations for storm water discharges require specific categories of facilities, which discharge storm water associated with industrial activity (storm water), to obtain NPDES permits and to implement Best Conventional Pollutant Technology (BCT) and Best Available Technology Economically Achievable (BAT) to reduce or eliminate industrial storm water pollution.

The State Water Board adopted Order 97-03-DWQ (General Permit No. CAS000001), specifying WDRs for discharges of storm water associated with industrial activities, excluding construction activities, and requiring submittal of a Notice of Intent by industries to be covered under the Permit. Coverage under the General Permit is required because this facility is required to be regulated under this General Permit.

IV. RATIONALE FOR EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS

The CWA requires point source dischargers to control the amount of conventional, nonconventional, 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 the Code of Federal Regulations: section 122.44(a) requires that permits include applicable technology-based limitations and standards; and section 122.44(d) requires that permits include water quality-based effluent limitations to attain and maintain applicable numeric and narrative water quality criteria to protect the beneficial uses of the receiving water. Where reasonable potential has been established for a pollutant, but there is no numeric criterion or objective for the pollutant, water quality-based effluent limitations (WQBELs) may be established: (1) using USEPA criteria guidance under CWA section 304(a), supplemented where necessary by other relevant information; (2) on an indicator parameter for the pollutant of concern; or (3) using 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 section 122.44(d)(1)(vi).

Effluent and receiving water limitations in this Order are based on the federal CWA, Basin Plan, State Water Board's plans and policies, USEPA guidance and regulations, and best practicable waste treatment technology. While developing effluent limitations and receiving water limitations, monitoring requirements, and special conditions for the draft permit, the following information sources were used:

- 1. USEPA NPDES Application Forms: California Form 200, USEPA Forms 1, 2A, and 2S dated December 30, 2009.
- 2. Code of Federal Regulations Title 40.
- 3. Water Quality Control Plan (Colorado River Basin Region 7) as amended to date.
- **4.** Regional Water Board files related to Coachella Sanitary District WWTP NPDES permit CA0104493.
- **5.** USEPA tentative approval letter for using freshwater criteria and the discharger biological assessment for the discharge.

A. Discharge Prohibitions

Effluent and receiving water limitations in this Order are based on the Federal CWA, Basin Plan, State Water Board's plans and policies, USEPA guidance and regulations, and best practicable waste treatment technology.

B. Technology-Based Effluent Limitations

1. Scope and Authority

Section 301(b) of the CWA and implementing USEPA permit regulations at section 122.44, title 40 of the Code of Federal Regulations, require that permits include conditions meeting applicable technology-based requirements at a minimum, and any more stringent effluent limitations necessary to meet applicable water quality standards. The discharge authorized by this Order must meet minimum federal technology-based requirements based on Secondary Treatment Standards at Part 133 and Best Professional Judgment (BPJ) in accordance with Part 125, section 125.3.

a. Secondary Treatment Standards. Regulations promulgated in section 125.3(a)(1) require technology-based effluent limitations for municipal

Dischargers to be placed in NPDES permits based on Secondary Treatment Standards or Equivalent to Secondary Treatment Standards.

The Federal Water Pollution Control Act Amendments of 1972 (PL 92-500) established the minimum performance requirements for POTWs [defined in section 304(d)(1)]. Section 301(b)(1)(B) of that Act requires that such treatment works must, as a minimum, meet effluent limitations based on secondary treatment as defined by the USEPA Administrator.

Based on this statutory requirement, USEPA developed secondary treatment regulations, which are specified in Part 133. These technology-based regulations apply to all municipal wastewater treatment plants and identify the minimum level of effluent quality attainable by secondary treatment in terms of BOD₅, TSS, and pH.

2. Applicable Technology-Based Effluent Limitations

a. This Facility meets the technology based regulations for the minimum level of effluent quality attainable through secondary treatment in terms of BOD₅ and TSS, removal efficiency for BOD₅ and TSS, and pH as summarized in Table F-11, below. Previous Order R7-2005-0083 established technology-based effluent limits to meet applicable secondary treatment standards for BOD₅ and TSS, removal efficiency for BOD₅ and TSS, and pH. These effluent limitations have been carried over from the previous Order. Further, mass-based effluent limitations are based on a design flow rate of 4.5 MGD.

Oil and grease is considered a conventional pollutant, which generally may be found in sanitary waste from households, businesses and industries, and for which POTW typically are designed to remove. Oil and grease removal is typically achieved during primary treatment. This Order establishes a maximum daily effluent limitation for oil and grease, based on Best Professional Judgment (BPJ) and the limitation included in the adopted General Order R7-2009-0300, NPDES Permit for Low Threat Discharges to Surface Waters Within the Colorado River Basin Region.

			Effluent Limitations					
Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum		
Flow	MGD	4.5						
BOD₅	mg/L	30	45					
	lbs/day1	1,126	1,689					
Removal Efficiency for BOD ₅	%	85						
Oil and Grease	mg/L			25				
Oli anu Grease	lbs/day1			938				
рН	s.u.				6.0	9.0		
TSS	mg/L	30	45					
	lbs/day ¹	1,126	1,689					

 Table F-11.
 Summary of Technology-based Effluent Limitations

		Effluent Limitations				
Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Removal Efficiency for TSS	%	85				

Mass-based effluent limitations are based upon a maximum flow of 4.5 MGD.

b. Basis for Limitations:

Table F-12. Basis for Limitations

Constituents	Basis for Limitations
Biochemical Oxygen Demand (BOD)	Discharges to waters that support aquatic life and are dependent on oxygen. Organic matter in the discharge may consume oxygen as it breaks down.
Oil and Grease	Oil and grease is a conventional pollutant typically present in the discharge from POTWs. High levels of oil and grease can adversely impact aquatic habitat and disrupt proper operation at POTWs. This limitation is based on BPJ.
Hydrogen lon (pH)	Hydrogen Ion (pH) is a measure of Hydrogen Ion concentration in the water. A range specified between 6.0 and 9.0 ensures suitability of biological life. This limitation has been adopted in the Basin Plan of the Region.
Total Suspended Solids (TSS)	High levels of suspended solids can adversely impact aquatic habitat. Untreated or improperly treated wastewater can contain high amounts of suspended solids.
Flow	The design capacity of the treatment plant is 4.5 MGD.

C. Water Quality-Based Effluent Limitations (WQBELs)

1. Scope and Authority

Section 301(b) of the CWA and Section 122.44(d) require that permits include limitations more stringent than applicable federal technology-based requirements where necessary to achieve applicable water quality standards.

Section 122.44(d)(1)(i) mandates 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, water quality-based effluent limitations (WQBELs) must be established using: (1) USEPA criteria guidance under CWA section 304(a), 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 section in 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 water quality objectives 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

Order R7-2005-0083 included interim and final effluent limitations for mercury, selenium, copper, zinc, cyanide, bis(2-ethylhexyl)phthalate, 4,4'-DDE, 4,4'-DDT, and heptachlor epoxide that were developed based on the most stringent of saltwater, freshwater, and human health criteria; the final effluent limitations for copper and zinc were based on saltwater criteria, the effluent limitations for cyanide and selenium were based on freshwater criteria, and the effluent limitations for mercury, bis(2-ethylhexyl)phthalate, 4,4'-DDE, 4,4'-DDT, and heptachlor epoxide were based on human health criteria.

On April 17, 2009, the Discharger conducted a Biological Assessment at the location of the discharge from the Facility. The areas of observation were the discharge point and approximately 100 meters upstream and 100 meters downstream of the discharge. The objective of the Biological Assessment was to determine whether water, plant life, and aquatic life at the discharge location are more typical of a saltwater or freshwater environment. On December 22, 2009, the Discharger submitted the results of the Biological Assessment to the USEPA requesting approval to use alternative freshwater criteria at the location of the discharge. This assessment determined that the applicable reach of the Coachella Valley Storm Water Channel is characterized as freshwater; therefore, the criteria for the protection of freshwater aquatic life are applicable.

USEPA reviewed the Biological Assessment and on March 18, 2010, issued a tentative approval of the findings in the Discharger's Biological Assessment and the application of water quality criteria for the protection of freshwater aquatic life. This Order R7-2010-0021 designates the Coachella Valley Storm Water Channel as a freshwater environment and establishes effluent limitations based on the CTR and SIP freshwater criteria for the discharge.

Table F-13 summarizes the applicable water quality criteria/objectives for priority pollutants reported in detectable concentrations in the effluent as well as those pollutants for which effluent limitations existed in Order R7-2005-0083. The hardness value used to conduct the Reasonable Potential Analysis (RPA) was 140 mg/L. These criteria were used in conducting the RPA for this Order.

			CTR/NTR Water Quality Criteria					
CTR No.	Parameter		Fresh	nwater	Saltwater		Human Health for Consumption of:	
			Acute	Chronic	Acute	Chronic	Organisms Only	
		μg/L	μg/L	μg/L	µg/L	μg/L	μg/L	
1	Antimony	4,300			Not Applicable		4,300	
2	Arsenic	150	340	150				

Table F-13. Applicable Beneficial Uses and Water Quality Criteria and Objectives

				CTR/N1	R Water Q	uality Criteri	а
CTR No.	Parameter	Most Stringent Freshwa Criteria			vater Saltwater		Human Health for Consumption of:
			Acute	Chronic	Acute	Chronic	Organisms Only
		μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
4	Cadmium	3.21	6.60	3.21			
6	Copper	12.44	19.22	12.44			
7	Lead	4.88	125.30	4.88			Narrative
8	Mercury	0.051					0.051
9	Nickel	69.34	623.68	69.34			4,600
10	Selenium	5.00	20	5			Narrative
13	Zinc	159.34	159.34	159.34			
14	Cyanide	5.2	22.0	5.2			220,000
23	Chlorodibromomethane	34					34
26	Chloroform	No Criteria					
27	Dichlorobromomethane	46					46
36	Methylene Chloride	1,600					1,600
39	Toluene	200,000					200,000
68	Bis(2-Ethylhexyl)Phalate	5.9					5.9
108	4,4'-DDT	0.00059	1.1	0.001			0.00059
109	4,4'-DDE	0.00059					0.00059
118	Heptachlor Epoxide	0.00011	0.52	0.0038			0.00011

"--" No water quality criteria available.

3. Determining the Need for WQBELs

In accordance with section 1.3 of the SIP, the Regional Water Board conducted a RPA for each priority pollutant with an applicable criterion or objective to determine if a WQBEL is required in the Order. The Regional Water Board analyzed effluent data to determine if a pollutant in a discharge has the reasonable potential to cause or contribute to an excursion above a state water quality standard. For all parameters that have the reasonable potential to cause or contribute to an excursion above a water quality standard, numeric WQBELs are required. The RPA considers 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 identified the maximum observed effluent concentration (MEC) for each constituent, based on data provided by the Discharger.

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:

- 1) <u>Trigger 1</u> If the MEC is greater than or equal to the CTR water quality criteria or applicable objective (C), a limit is needed.
- <u>Trigger 2</u> If background water quality (B) > C and the pollutant is detected in the effluent, a limit is needed.

3) <u>Trigger 3</u> – If other related information, such as a 303(d) listing for a pollutant, discharge type, compliance history, etc., indicates that a WQBEL is required.

Sufficient effluent and ambient data are needed to conduct a complete RPA. If data are not sufficient, the Discharger will be required to gather the appropriate data for the Regional Water Board to conduct the RPA. In accordance with section 1.2 of the SIP, the Regional Water Board shall have discretion to consider if any data are inappropriate for use in determining reasonable potential.

The RPA was performed on available priority pollutant monitoring data collected by the Discharger from January 2007 through December 2009. Based on the RPA, copper, zinc, and bis(2-ethylhexyl)phthalate demonstrated reasonable potential to cause or contribute to an excursion above a water quality standard. Effluent limitations for copper, zinc, and bis(2-ethylhexyl)phthalate are established in this Order. Further, the existing Order (R7-2005-0083) contained final effluent limitations for copper, mercury, selenium, zinc, cyanide, bis(2-ethylhexyl)phthalate, 4,4'-DDE, 4,4'-DDT, and heptachlor epoxide. Data evaluated when conducting this RPA for priority pollutants determined that the effluent limitations for mercury, selenium, cyanide, and heptachlor epoxide were no longer appropriate; therefore, effluent limitations for mercury, selenium, cyanide, 4,4'-DDE, 4,4'-DDT, and heptachlor epoxide are discontinued. Data evaluated in the RPA for priority pollutants reported in detectable concentrations in the effluent as well as those pollutants for which effluent limitations existed in Order R7-2005-0083 are summarized in Table F-14.

CTR No.	Priority Pollutant	Applicable Water Quality Criteria (C) μg/L	Max. Effluent Concentration (MEC) μg/L	Max. Detected Receiving Water Concentration (B)	RPA Result – Effluent Limit Required?	Reason
1	Antimony	4,300	0.4 DNQ	μg/L	No	MEC < C & no B
2	Arsenic	150	2.2		No	MEC < C & no B
4	Cadmium	3.21	0.32		No	MEC < C & no B
6	Copper	12.44	19		Yes	MEC > C
7	Lead	4.88	0.2 DNQ		No	MEC < C & no B
8	Mercury	0.051	< 0.039		No	MEC < C & no B
9	Nickel	69.34	2		No	MEC < C & no B
10	Selenium	5.00	0.7 DNQ		No	MEC < C & no B
13	Zinc	159.34	210		Yes	MEC > C
14	Cyanide	5.2	< 5		No	MEC < C & no B
23	Chlorodibromomethane	34	0.45 DNQ		No	MEC < C & no B
26	Chloroform	NC	20		No	NC
27	Dichlorobromomethane	46	0.36		No	MEC < C & no B
36	Methylene Chloride	1,600	0.27 DNQ		No	MEC < C & no B
39	Toluene	200,000	1.4		No	MEC < C & no B
68	Bis(2- Ethylhexyl)Phalate	5.9	9.3		Yes	MEC > C
108	4,4'-DDT	0.00059	< 0.01		No	See Footnote 1
109	4,4'-DDE	0.00059	< 0.01		No	See Footnote 1
118	Heptachlor Epoxide	0.00011	< 0.01		No	MEC < C & no B

Table F-14. Summary of Reasonable Potential Analysis

NC = No Criteria contained in the CTR, DNQ = Detected Not Quantified, "---" No data available

There were six data points available for 4,4'-DDT and 4,4'-DDE during the period from January 2007 through December 2009; one was reported as DNQ and all other data points were reported as non-detect. In addition, all other data for 4,4'-DDT and 4,4'-DDE during the term of the permit were reported as non-detect. The Regional Water Board determines the discharge does not demonstrate reasonable potential to cause or contribute to an excursion above a state water quality standard for 4,4'-DDT and 4,4'-DDE. Effluent limitations for 4,4'-DDT and 4,4'-DDE have been discontinued; however, the Discharger is required to monitor the effluent routinely for 4,4'-DDT and 4,4'-DDE to characterize the effluent and evaluate reasonable potential for 4,4'-DDT and 4,4'-DDE.

4. WQBEL Calculations

- **a.** Final WQBELs are based on monitoring results and following the calculation process outlined in section 1.4 of the SIP. A table providing the calculations for all applicable WQBELs for this Order is provided in Attachment I of this Order.
- **b.** WQBELs Calculation Example

Using copper as an example, the following demonstrates how WQBELs based on aquatic life criterion were established for Order R7-2010-0021. The process for developing these limits is in accordance with section 1.4 of the SIP. Attachment I summarizes the development and calculation of all WQBELs for this Order using the process described below.

Step 1: For each constituent requiring an effluent limit, identify the applicable water quality criteria or objective. For each criterion determine the effluent concentration allowance (ECA) using the following steady state equation:

ECA = C + D(C-B) when C>B, and ECA = C when C<= B,

Where	C =	The priority pollutant criterion/objective, adjusted if necessary for hardness, pH and translators. In this Order a hardness value from the effluent of 140 mg/L (as CaCO ₃) was used for development of hardness-dependant criteria, and a pH of 7.0 was used for pH-dependent criteria. Upstream receiving water samples were not available.
	D =	The dilution credit, and
	B =	The ambient background concentration

For this Order, dilution was not allowed due to the nature of the receiving water and quantity of the effluent; therefore:

ECA = C

For copper, the applicable water quality criteria are:

ECA _{acute} =	19.22 µg/L
ECA _{chronic} =	12.44 µg/L
ECA _{human health} =	Not Applicable

Step 2: For each ECA based on aquatic life criterion/objective, determine the long-term average discharge condition (LTA) by multiplying the ECA by a factor (multiplier). The multiplier is a statistically based factor that adjusts the ECA to account for effluent variability. The value of the multiplier varies depending on the coefficient of variation (CV) of the data set and whether it is an acute or chronic criterion/objective. Table 1 of the SIP provides pre-calculated values for the multipliers based on the value of the CV. Equations to develop the multipliers in place of using values in the tables are provided in section 1.4, Step 3 of the SIP and will not be repeated here.

LTA_{acute} = ECA_{acute} x Multiplier_{acute}

LTA_{chronic}= ECA_{chronic} x Multiplier_{chronic}

The CV for the data set must be determined before the multipliers can be selected and will vary depending on the number of samples and the standard deviation of a data set. If the data set is less than 10 samples, or at least 80% of the samples in the data set are reported as non-detect, the CV shall be set equal to 0.6.

For copper, the following data was used to develop the acute and chronic LTA using Table 1 of the SIP:

No. of Samples AvailableCVMultiplier_acuteMultiplier_chronic800.660.30.5

 $LTA_{acute} = 19.22 \ \mu g/L \ x \ 0.3 = 5.70 \ \mu g/L$

 $LTA_{chronic} = 12.44 \ \mu g/L \ x \ 0.5 = 6.21 \ \mu g/L$

Step 3: Select the most limiting (lowest) of the LTA.

LTA = most limiting of LTA_{acute} or LTA_{chronic}

For copper, the most limiting LTA was the LTA_{acute}

LTA = 5.70 μg/L

Step 4: Calculate the WQBELs by multiplying the LTA by a factor (multiplier). WQBELs are expressed as Average Monthly Effluent Limitations (AMEL) and Maximum Daily Effluent Limitations (MDEL). The multiplier is a statistically based factor that adjusts the LTA for the averaging periods and exceedance frequencies of the criteria/objectives and the effluent limitations. The value of the multiplier varies depending on the probability basis, the coefficient of variation (CV) of the data set, the number of samples (for AMEL) and whether it is monthly or daily limit. Table 2 of the SIP provides pre-calculated values for the multipliers based on the value of the CV and the number of samples. Equations to develop the multipliers in place of using values in the tables are provided in section 1.4, Step 5 of the SIP and will not be repeated here.

AMEL_{aquatic life} = LTA x AMEL_{multiplier}

MDEL_{aquatic life} = LTA x MDEL_{multiplier}

AMEL multipliers are based on a 95th percentile occurrence probability, and the MDEL multipliers are based on the 99th percentile occurrence probability. If the number of samples is less than four (4), the default number of samples to be used is four (4).

For copper, the following data was used to develop the AMEL and MDEL for aquatic life using Table 2 of the SIP:

No. of Samples per Month	<u>CV</u>	<u>Multiplier_{MDEL}</u>	<u>Multiplier_{AMEL}</u>
4	0.60	3.37	1.61

 $AMEL_{aquatic \ life} = 5.70 \ x \ 1.61 = 9.17 \ \mu g/L$

MDEL_{aguatic life} = 5.70 x 3.37 = 19.22 µg/L

Step 5: For the ECA based on human health, set the AMEL equal to the ECA_{human health}

 $AMEL_{human health} = ECA_{human health}$

However, for copper, ECA_{human health} = Not Available. The CTR does not contain a numeric copper criterion protective of human health; therefore, it was not possible to develop a copper AMEL based on human health criteria.

Step 6: Calculate the MDEL for human health by multiplying the AMEL by the ratio of the Multiplier_{MDEL} to the Multiplier_{AMEL}. Table 2 of the SIP provides pre-calculated ratios to be used in this calculation based on the CV and the number of samples.

 $MDEL_{human health} = AMEL_{human health} x (Multiplier_{MDEL} / Multiplier_{AMEL})$

A copper MDEL_{human health} could not be calculated because a copper AMEL_{human} health was not available. There are no criteria protective of human health for copper; therefore, none of the limitations for copper are based on human health criteria.

Step 7: Select the lower of the AMEL and MDEL based on aquatic life and human health as the water-quality based effluent limit for the Order.

AMEL _{aquatic life}	MDEL _{aquatic life}	AMEL _{human health}	MDEL _{human health}
9.2 μg/L	19 µg/L	Not Available	Not Available

The lowest (most restrictive) effluent limits for copper are based on aquatic toxicity and were incorporated into this Order. For zinc, there are no human health criteria; therefore, the AMEL and MDEL based on aquatic life criteria are

established as the WQBELs. For bis(2-ethylhexyl)phthalate, there are no aquatic life criteria; therefore, the AMEL and MDEL based on human health criteria are established as the WQBELs.

- c. WQBELs Based on Basin Plan Objectives
 - i. Previous Order R7-2005-0083 established WQBELs for TDS. These WQBELs were based on receiving water guality objectives established in the Basin Plan that state any discharge to the Coachella Valley Drains shall not cause the concentration of TDS in the surface water to exceed an annual average of 2,000 mg/L or a maximum daily of 2,500 mg/L. Due to the incorrect interpretation of the Basin Plan receiving water quality objectives for TDS as numeric effluent limitations, this Order R7-2010-0021 replaces the numeric effluent limitations for TDS of the original permit with a narrative effluent limitation and establishes a receiving water limitation for TDS to accurately apply the WQO of the Basin Plan. The replacement of those numeric effluent limitations with a narrative effluent limitation and receiving water limitation for TDS does not constitute backsliding due to the exception contained in section 402(o)(2)(B)(ii) of the CWA. This statutory provision states that a permit may be renewed, reissued, or modified to contain a less stringent effluent limitation applicable to a pollutant if "the Administrator determines that a technical mistake or mistake in interpretation of the law were made in issuing the permit...." Further, the effluent data were evaluated in conducting a RPA to determine whether TDS would be discharged at a level that would have the reasonable potential to cause or contribute to an excursion above any State water quality standard, including State narrative criteria for water quality. The discharge does not demonstrate the reasonable potential to exceed water quality objectives for TDS. Therefore, effluent limitations for TDS are not required for the discharge. Corresponding to the application of receiving water limitations for TDS, monitoring requirements are established in this Order for TDS at monitoring stations RSW-001 and RSW-002.
 - **ii.** The Basin Plan states that any discharge to a water body with a REC-1 designated use shall not have bacterial densities in excess of the following:
 - (a) *E. Coli.* The geometric mean bacterial density (based on a minimum of not less than five samples equally spaced over a 30-day period) shall not exceed a Most Probable Number (MPN) of 126 per 100 milliliters, nor shall any sample exceed the maximum allowable bacterial density of a MPN of 400 per 100 milliliters.
 - (b) Fecal Coliform. The geometric mean bacterial density (based on a minimum of not less than five samples equally spaced over a 30-day period) shall not exceed a MPN of 200 per 100 milliliters, nor shall more than ten percent of the total samples during any 30-day period exceed a MPN of 400 per 100 milliliters.

Effluent limitations for *E.coli* and fecal coliform are incorporated in this Order. The bacterial indicators of *E. coli* and fecal coliform are used to estimate the presence of pathogens in the wastewater effluent discharged to Discharge Point 001. Effluent limitations for *E. coli* and fecal coliform shall be used as indicators to determine the effectiveness of the municipal wastewater treatment facilities disinfection system.

- **iii.** The Basin Plan's general surface water objectives state that all waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in human, plant, animal, or indigenous aquatic life. Chlorine is known to be toxic to aquatic life. The previous Order R7-2005-0083 established numeric effluent limitations for total chlorine residual and these limitations are carried over to this Order.
- iv. The effluent limitations calculated for this permit renewal for copper, zinc, and bis(2-ethylhexyl)phthalate, are based on water quality criteria contained in the CTR, discharge monitoring data, and pursuant to procedures established in the SIP; thus, they are established in this Order.

		Effluent Limitations				
Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Copper, Total	μg/L	9.2		19		
Recoverable	lbs/day1	0.36		0.71		
Zinc, Total	μg/L	86		159		
Recoverable	lbs/day1	3.2		6.0		
Bis(2-	μg/L	5.9		14		
ethylhexyl)Phthalate	lbs/day1	0.22		0.52		
Escherichia Coli (E. Coli)	MPN/100 ml	126 ²		400 ³		
Fecal Coliform	MPN/100 ml	200 ²		400 ⁴		
Popidual Chloring	mg/L	0.01				0.02
Residual Chlorine	lbs/day1	0.38				0.75

 Table F-15.
 Summary of Water Quality-based Effluent Limitations

¹ The mass-based effluent limitations are based on a design capacity of 4.5 MGD.

² This effluent limitation is expressed as a geometric (or log) mean, based on a minimum of not less than five samples for any 30-day period with a minimum of once per week.

³ This effluent limitation is expressed as a maximum single sample value

No more than ten percent of the total fecal coliform samples collected during any 30-day period shall exceed a MPN of 400 per 100 milliliters.

(a) Total Dissolved Solids: Discharges of wastes or wastewater shall not increase the total dissolved solids content of receiving waters, unless it can be demonstrated to the satisfaction of the Regional Water Board that such an increase in total dissolved solids does not adversely affect beneficial uses of receiving waters.

5. Whole Effluent Toxicity (WET)

Whole effluent toxicity (WET) protects the receiving water quality from the aggregate toxic effect of a mixture of pollutants in the effluent. WET tests measure the degree of response of exposed aquatic test organisms to an effluent. The WET approach allows for protection of the narrative "no toxics in toxic amounts" criterion while implementing numeric criteria for toxicity. There are two types of WET tests: acute and chronic. An acute toxicity test is conducted over a shorter time period and measures mortality. A chronic toxicity test is conducted over a longer period of time and may measure mortality, reproduction, and growth.

The Basin Plan specifies a narrative objective for toxicity, requiring that all waters be maintained free of toxic substances in concentrations that are lethal to or produce other detrimental response on aquatic organisms. Detrimental response includes but is not limited to decreased growth rate, decreased reproductive success of resident or indicator species, and/or significant alterations in population, community ecology, or receiving water biota.

The previous Order contained narrative toxicity language and triggers, and monitoring requirements. The Discharger will conduct toxicity monitoring 4 times a year.

This Order implements the narrative objective for toxicity, requiring there shall be no acute or chronic toxicity in the treatment plant effluent. In addition, the Order establishes thresholds that when exceeded requires the Discharger to conduct accelerated toxicity testing and/or conduct toxicity identification evaluation (TIE) and toxicity reduction evaluation (TRE) studies.

In addition to the Basin Plan requirements, section 4 of the SIP states that a chronic toxicity effluent limitation is required in permits for all discharges that will cause, have the reasonable potential to cause, or contribute to chronic toxicity in receiving waters. Therefore, in accordance with the SIP, this Order requires the Discharger to conduct chronic toxicity testing for discharges to the Coachella Valley Storm Water Channel.

D. Final Effluent Limitations

Table F-13 below summarizes the proposed effluent limitations for the discharge through Discharge Point 001. Proposed effluent limitations are based on secondary standards, equivalent to secondary standards, California Toxics Rule, and Colorado River Basin Plan Water Quality Standards.

The previous Order established effluent limitations for Flow, BOD₅, TSS, removal efficiency for BOD and TSS, pH, E. Coli, residual chlorine, copper, mercury, selenium, zinc, cyanide, bis(2-ethylhexyl)phthalate, 4,4'-DDE, 4,4'-DDT, heptachlor epoxide, TDS, and toxicity. Effluent limitations in the previous Order for pH, BOD₅, TSS, and removal efficiency for BOD and TSS are based on secondary standards. These effluent limitations are carried over to the proposed Order. Also, this Order establishes a maximum daily effluent limitation for oil and grease, based on BPJ and the limitation

included in the adopted General Order R7-2009-0300, NPDES Permit for Low Threat Discharges to Surface Waters Within the Colorado River Basin Region. The Regional Water Board determined the effluent limitation for oil and grease represents the level of treatment attainable through the application of the best conventional pollutant control technology (BCT). Measurement of Oil and Grease helps to ensure that the Discharger is practicing proper operation and maintenance of the Facility and additionally, that the receiving stream and its intended uses are protected.

As discussed in section IV.C.3, this Order discontinues the effluent limitations for mercury, selenium, cyanide, heptachlor epoxide, 4,4'-DDE and 4,4'-DDT and replaces effluent limitations for TDS with a narrative effluent limitation, and added effluent limitations for fecal coliform.

The MDEL calculated for this permit renewal for bis(2-ethylhexyl)phthalate is less stringent than the effluent limitations contained in the previous Board Order R7-2005-0083; however, these new limitations are calculated in accordance with SIP procedures and thus are established in this Board Order.

The previous Board Order granted interim effluent limitations for priority pollutants to allow the Discharger to complete actions necessary to comply with final CTR-based WQBELs; these interim effluent limitations were effective through June 29, 2009. Interim effluent limitations for copper and zinc established in Cease and Desist Order R7-2010-0016 are included in the Order, section IV.A.2, and are effective through September 29, 2010.

Table F-16 below summarizes the proposed effluent limitations for the discharge through Discharge Point 001. Proposed effluent limitations are based on secondary standards, California Toxics Rule, and Colorado River Basin Plan Water Quality Standards.

1. Mass-based Effluent Limitations

Title 40 CFR section 122.45(f)(1) requires effluent limitations be expressed in terms of mass, with some exceptions, and section 122.45(f)(2) allows pollutants that are limited in terms of mass to additionally be limited in terms of other units of measurement. This Order includes effluent limitations expressed in terms of mass and concentration. In addition, pursuant to the exceptions to mass limitations provided in section 122.45(f)(1), some effluent limitations are not expressed in terms of mass, such as pH and temperature, and when the applicable standards are expressed in terms of concentration (e.g. CTR criteria and MCLs) and mass limitations are not necessary to protect the beneficial uses of the receiving water.

Mass-based effluent limitations are established using the following formula:

Mass (lbs/day) = flow rate (MGD) x 8.34 x effluent limitation (mg/L)

where: Mass = mass limitation for a pollutant (lbs/day)

Effluent limitation = concentration limit for a pollutant (mg/L)

Flow rate = discharge flow rate (MGD)

2. Final Effluent Limitations

a. The Discharger shall maintain compliance with the following effluent limitations at Discharge Point 001, with compliance measured at Monitoring Location EFF-001C as described in the MRP, except as modified by any applicable Interim Effluent Limitations specified in Section IV.E and Table F-17, below.

		Effluent Limitations					
Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum	Basis
Flow	MGD	4.5					
BOD (5 day @ 20 Deg. C)	mg/L	30	45				40 CFR
	lbs/day1	1,126	1,689				133
Oil and Crosse	mg/L			25			BPJ
Oil and Grease	lbs/day1			938			BPJ
рН	standard units				6.0	9.0	40 CFR 133
TSS	mg/L	30	45				40 CFR 133
100	lbs/day1	1,126	1,689				
Copper, Total	μg/L	9.2		19			CTR,
Recoverable	lbs/day1	0.35		0.71			SIP
Zinc, Total	μg/L	86		159			CTR,
Recoverable	lbs/day1	3.2		6.0			SIP
Bis(2- ethylhexyl)Phthalate	μg/L	5.9		14			CTR,
	lbs/day1	0.22		0.52			SIP
Desidual Chloring	mg/L	0.01				0.02	Basin
Residual Chlorine	lbs/day1	0.38				0.75	Plan

The mass-based effluent limitations are based on a design capacity of 4.5 MGD.

- **b.** Percent Removal: The average monthly percent removal of BOD 5-day 20°C and TSS shall not be less than 85 percent.
- **c.** Toxicity: There shall be no acute or chronic toxicity in the treatment plant effluent nor shall the treatment plant effluent cause any acute or chronic toxicity in the receiving water, as defined in section V of the MRP. All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in human, plant, animal, or indigenous aquatic life. Compliance with this objective will be determined by use of indicator organisms, analyses of species diversity, population density, growth

anomalies, or bioassays of appropriate duration or other appropriate methods specified by the Regional Water Board.

- **d. Bacteria:** The bacterial concentrations in the wastewater effluent discharged to the Coachella Valley Storm Water Channel shall not exceed the following concentrations, as measured by the following bacterial indicators:
 - i. *E. Coli.* The geometric mean bacterial density (based on a minimum of not less than five samples equally spaced over a 30-day period) shall not exceed a MPN of 126 per 100 milliliters, nor shall any sample exceed the maximum allowable bacterial density of a MPN of 400 per 100 milliliters.
 - **ii. Fecal Coliform.** The geometric mean bacterial density (based on a minimum of not less than five samples equally spaced over a 30-day period) shall not exceed a MPN of 200 per 100 milliliters, nor shall more than ten percent of the total samples during any 30-day period exceed a MPN of 400 per 100 milliliters.
- e. Total Dissolved Solids: Discharges of wastes or wastewater shall not increase the total dissolved solids content of receiving waters, unless it can be demonstrated to the satisfaction of the Regional Water Board that such an increase in total dissolved solids does not adversely affect beneficial uses of receiving waters.
- f. Chlorine Residual: Discharges may contain chlorine, which is extremely toxic to aquatic organisms. USEPA's *National Ambient Water Quality Criteria for the Protection of Freshwater Aquatic Life (NAWQC)* recommend 4-day average (chronic) and 1-hour average (acute) criteria for chlorine of 0.019 mg/L and 0.011 mg/L, respectively.

The Regional Water Board calculates effluent limitations for CTR and non-CTR parameters using the procedures outlined in the SIP and the USEPA *Technical Support Document for Water Quality-based Toxics Control* (EPA/505/2-90-001), which contain statistical methods for converting chronic (4-day) and acute (1-hour) aquatic life criteria to average monthly and maximum daily effluent limitations based on the variability of the existing data and the expected frequency of monitoring.

3. Satisfaction of Anti-Backsliding Requirements

Sections 402(0)(2) and 303(d)(4) of the CWA and federal regulations at Title 40, CFR section 122.44(I) prohibit backsliding in NPDES permits. These antibacksliding 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. Some effluent limitations in this Order are less stringent than those in the previous Order. The effluent limitations for TDS have been revised. Due to the incorrect interpretation of the Basin Plan receiving water quality objectives for TDS as numeric effluent limitations, this Order replaces the numeric effluent limitations for TDS with a narrative effluent limitation and establishes a receiving water limitation for TDS to accurately apply the water quality objectives of the Basin Plan.

Further, this Board Order revises characterization of the immediate receiving water, the Coachella Valley Storm Water Channel, as a freshwater environment and establishes effluent limitations based on the CTR and SIP freshwater criteria for the discharge. The receiving water designation was determined to be freshwater, and as a result, the saltwater aquatic life criteria are no longer applicable for the reach of the Coachella Valley Storm Water Channel to which the Facility discharges. Therefore, this Board Order revises effluent limitations for copper and zinc based on the revision of applicable water quality criteria (i.e., freshwater). In addition, based on consideration of new information (i.e., discharge monitoring data and reasonable potential analysis reflecting revised applicable water quality criteria), this Board Order discontinues effluent limitations for mercury, selenium, cyanide, heptachlor epoxide, 4,4'-DDE, and 4,4'-DDT because the discharge did not demonstrate a reasonable potential to cause or contribute to an excursion above applicable water quality standards for mercury, selenium, cyanide, heptachlor epoxide, 4,4'-DDE, and 4,4'-DDT. The maximum daily effluent limitation (MDEL) determined during this permit renewal for bis(2-ethylhexyl)phthalate is less stringent than the MDEL established in the existing Board Order (R7-2005-0083), based on the consideration of new information (i.e., discharge monitoring data). This relaxation of effluent limitations is consistent with the anti-backsliding requirements of the CWA and federal regulations.

4. Satisfaction of Antidegradation Policy

Section 131.12 requires that the state water quality standards include an antidegradation policy consistent with the federal policy. The State Water Board established California's anti-degradation policy in State Water Board Resolution No. 68-16. Resolution No. 68-16 incorporates the federal anti-degradation policy where the federal policy applies under federal law. Resolution No. 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 anti-degradation policies. As discussed in detail in Fact Sheet section III.C.10, the permitted discharge is consistent with the anti-degradation provision of section 131.12 and State Water Board Resolution No. 68-16.

5. Stringency of Requirements for Individual Pollutants

This Order contains technology-based effluent limitations for certain specified individual pollutants. The technology-based effluent limitations consist of restrictions on flow, BOD₅, TSS, percent removal, oil and grease, and pH. Restrictions on flow, BOD₅, TSS, percent removal, oil and grease, and pH, are presented in Table F-9 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. These water quality-based effluent limitations have been scientifically derived to implement water quality objectives that protect beneficial uses. Both the beneficial uses and the water quality objectives 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 section 131.38.

The scientific procedures for calculating the individual WQBELs for priority pollutants are based on the CTR-SIP, which was approved by USEPA on May 18, 2000. All beneficial uses and water quality objectives contained in the Basin Plan were approved under state law and submitted to and approved by USEPA prior to May 30, 2000. Any water quality objectives 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 section 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.

E. Interim Effluent Limitations

Cease and Desist Order R7-2010-0016 established interim effluent limitations for copper and zinc for wastewater discharged to the Coachella Valley Storm Water Channel, and extended the time period the interim effluent limitations are effective. These interim limits have been carried over from that Order and are effective through September 29, 2010.

Parameter	Units	Effluent Limitations			
Falameter	Onits	Average Monthly	Maximum Daily		
Copper, Total Recoverable	μg/L	12	12		
	lbs/day	0.45	0.45		
Zinc, Total	μg/L	150	150		
Recoverable	lbs/day	5.6	5.6		

Table F-17. Interim Effluent Limitations

¹ The mass-based effluent limitations are based on a design capacity of 4.5 MGD.

F. Land Discharge Specifications – Not Applicable

G. Reclamation Specifications – Not Applicable

V. RATIONALE FOR RECEIVING WATER LIMITATIONS

The receiving water limitations in the proposed Order are based upon the water quality objectives contained in the Basin Plan. As such, they are a required part of the proposed Order.

A. Surface Water

The surface water receiving water limitations in the proposed Order are based upon the water quality objectives contained in the Basin Plan and are carried forward from the

previous Order. As such, they are a required part of the proposed Order. The receiving water limitations for dissolved oxygen and temperature are as follows:

The discharge shall not cause the concentration of dissolved oxygen in the receiving water to fall below 5.0 mg/L. When the dissolved oxygen in the receiving water is already below 5.0 mg/L, the discharge shall not cause any further depression.

The discharge shall not result in the natural receiving water temperature to be altered, unless it can be demonstrated to the satisfaction of the Regional Water Board that such alteration in temperature does not adversely affect beneficial uses.

The discharge shall not result in the normal ambient pH of the receiving water to fall below 6.0 or exceed 9.0 units.

Also, a new receiving water limitation was added for TDS based on the Regional Water Board's Basin Plan as follows:

The discharge shall not cause the concentration of total dissolved solids in the Coachella Valley Storm Water Channel to exceed an annual average concentration of 2,000 mg/L or a maximum daily concentration of 2,500 mg/L.

B. Groundwater – Not Applicable

VI. RATIONALE FOR MONITORING AND REPORTING REQUIREMENTS

Section 122.48 requires that all NPDES permits specify requirements for recording and reporting monitoring results. Water Code sections 13267 and 13383 authorizes the Regional Water Board to require technical and monitoring reports. The Monitoring and Reporting Program (MRP), Attachment E of this Order, establishes monitoring and reporting requirements to 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

This Order carries forward the treatment plant influent monitoring requirements.

B. Effluent Monitoring

The Discharger is required to conduct monitoring of the permitted discharges in order to evaluate compliance with permit conditions. Monitoring requirements are given in the proposed MRP. This provision requires compliance with the MRP, and is based on sections 122.44(i), 122.62, 122.63 and 124.5. The MRP is a standard requirement in almost all NPDES permits (including the proposed Order) issued by the Regional Water Board. In addition to containing definitions of terms, it specifies general sampling/analytical protocols and the requirements of reporting of spills, violations, and routine monitoring data in accordance with NPDES regulations, the CWC, and Regional Water Board's policies. The MRP also contains sampling program specific for the Discharger's wastewater treatment facility. 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, 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.

Monitoring for those pollutants expected to be present in the discharge from the Facility, EFF-001, will be required as shown in the proposed MRP and as required by the SIP.

Monitoring requirements are largely unchanged from the previous Order. This Order removes individual monitoring requirements for mercury, selenium, cyanide, and heptachlor epoxide because monitoring for these pollutants is captured in the annual monitoring requirement for all priority pollutants. This Order establishes quarterly monitoring requirements for 4,4'-DDE and 4,4'-DDT for the first year of the permit term to characterize the effluent and evaluate reasonable potential for 4.4'-DDE and 4.4'-DDT. For the remainder of the permit term, the Discharger will monitor annually for 4,4'-DDE and 4,4'-DDT at the same time the annual monitoring for all priority pollutants is conducted. This Order also changes the monitoring frequency for TSS, oil and grease, and whole effluent toxicity. This Order establishes monthly monitoring for oil and grease to collect data to determine compliance with the effluent limitations for oil and grease. Further, this Order revises the monitoring frequency for TSS from twice per week to once per week and for whole effluent toxicity from four times a year to twice a year, based on a review of discharge monitoring data for TSS and bioassays. This Order establishes monitoring for fecal coliform to collect data to determine compliance with the effluent limitations for fecal coliform.

C. Whole Effluent Toxicity Testing Requirements

Whole effluent toxicity (WET) testing requirements establish monitoring of the effluent to ensure that the receiving water quality is protected 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 longer period of time and may measure mortality, reproduction, and growth.

This requirement establishes conditions and protocol by which compliance with the Basin Plan narrative water quality objective for toxicity will be demonstrated and in accordance with section 4.0 of the SIP. Conditions include required monitoring and evaluation of the effluent for acute and chronic toxicity and numerical values for chronic toxicity evaluation to be used as 'triggers' for initiating accelerated monitoring and toxicity reduction evaluation(s).

The WET testing requirements contained in the MRP, section V were developed based on the Draft National Whole Effluent Toxicity Implementation Guidance Under the NPDES Program developed by USEPA (Docket ID. No. OW-2004-0037). This is the most current guidance available to the Regional Water Board. This Order includes a reopener to allow the requirements of this section to be revised pending the issuance of final guidance or policies developed by either the USEPA or State Water Board.

D. Receiving Water Monitoring

1. Surface Water

Surface water monitoring is required to determine compliance with receiving water limitations and to characterize the water quality of the receiving water pursuant to the Basin Plan. Monitoring requirements for the receiving water are largely unchanged from the previous Order. This Order establishes monitoring for nutrients (e.g., nitrites and orthophosphate, in the upstream receiving water in order to characterize that portion of the Coachella Valley Storm Water Channel upon the completion of the Salton Sea Nutrient TMDL. Additionally, annual monitoring for priority pollutants in the upstream receiving water has been added, as required in accordance with the SIP.

E. Groundwater – Not Applicable

F. Other Monitoring Requirements

1. Water Supply Monitoring

The Discharger is required to obtain or acquire quarterly TDS concentrations of the source water, either through monitoring or obtaining the data from the drinking water purveyor. This information will be compiled and summarized in a quarterly report, in accordance with Special Provisions, Special Studies and Additional Monitoring Requirements, section VI.C.2.d of the proposed Order.

2. Biosolids/Sludge Monitoring

This section establishes monitoring and reporting requirements for the storage, handling and disposal practices of sludge generated from the operation of this Facility. All sludge and or solids generated at the treatment plant will be disposed, treated, or applied to land in accordance with Federal Regulations Part 503. The previous Order required sludge monitoring on an annual basis. This monitoring will be carried over from the previous permit.

VII. RATIONALE FOR PROVISIONS

A. Standard Provisions

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

Section 122.41(a)(1) and (b) through (n) establish conditions that apply to all Stateissued NPDES permits. These conditions must be incorporated into the permits either expressly or by reference. If incorporated by reference, a specific citation to the regulations must be included in the Order. Section 123.25(a)(12) allows the state to omit or modify conditions to impose more stringent requirements. In accordance with section 123.25, this Order omits federal conditions that address enforcement authority specified in sections 122.41(j)(5) and (k)(2) because the enforcement authority under the Water Code is more stringent. In lieu of these conditions, this Order incorporates by reference Water Code section 13387(e).

B. Special Provisions

1. Reopener Provisions

This provision is based on 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.

The State Water Board has developed the Draft Policy on Total Residual Chlorine and Chlorine-Produced Oxidants (TRC/CPO Draft Policy), which, when adopted, is intended to establish consistent standards and implementation procedures for regulating chlorine statewide. This provision allows the Regional Water Board to reopen this General Board Order to include a revised reporting level for determining compliance with effluent limitations for total residual chlorine if a statewide policy for such is adopted during the term of this General Board Order.

2. Special Studies and Additional Monitoring Requirements

- a. TRE Work Plan, Toxicity Identification Evaluations, and Toxicity Reduction Evaluations. This provision is based on the SIP, section 4, Toxicity Control Provisions.
- **b. Translator Study.** This provision is based on the SIP. This provision allows the Discharger to conduct an optional translator study, based on the SIP at the Discharger's discretion. This provision is based on the need to gather site-specific information in order to apply a different translator from the default translator specified in the CTR and SIP. Without site-specific data, the default translators are used with the CTR criteria.
- **c.** Total Dissolved Solids (TDS) Study. The purpose of this study is to provide more detailed information on the Regional Board's development of salinity standards pursuant to section 303 of the CWA and through the NPDES permitting authority in the regulation of municipal and industrial sources (see section 402 of the Federal Water Pollution Control Act). The Discharger shall provide an annual update regarding progress on the actions proposed in the TDS Study (revised March 2010) and a final report shall be submitted to the Regional Board's Executive Officer prior to the filing date for re-application.

3. Best Management Practices and Pollution Prevention

a. Pollutant Minimization Program. This provision is based on the requirements of section 2.4.5 of the SIP.

b. Storm Water. This provision is based on Water Quality Order 97-03-DWQ, NPDES General Permit No. CAS000001 for Discharges of Storm Water Associated with Industrial Activities.

4. Construction, Operation, and Maintenance Specifications

- **a.** Facility and Treatment Operation. This provision is based on the requirements of section122.41(e) and the previous Order.
- **b.** Spill Response Plan. This provision is based on the requirements of section 122.41(e) and the previous Order.

5. Special Provisions for Municipal Facilities (POTWs Only)

The State Water Board issued General Waste Discharge Requirements for Sanitary Sewer Systems, Water Quality Order 2006-0003-DWQ (General Order) on May 2, 2006. The General Order 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 General Order. The General Order requires agencies to develop sanitary sewer management plans (SSMPs) and report all sanitary sewer overflows (SSOs), among other requirements and prohibitions.

Furthermore, the General Order contains requirements for operation and maintenance of collection systems and for reporting and mitigating sanitary sewer overflows. Inasmuch that the Discharger'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 General Order. The Discharger must comply with both the General Order and this Order. The Discharger and public agencies that are discharging wastewater into the facility were required to obtain enrollment for regulation under the General Order by December 1, 2006.

- **a. Sludge Disposal Requirements.** Requirements are based on the previous Order and Part 503.
- **b. Pretreatment Program Requirements.** Requirements are based on the previous Order and Part 403.
- c. Collection Systems. Requirements are based on section 122.41.

6. Other Special Provisions

Special Provisions V.C.6.a and V.C.6.b are included to ensure the compliance with requirements established in Order R7-2010-0021, and are based on the previous Order, the CWA, USEPA regulations, CWC, and Regional Water Board plans and policies.

7. Compliance Schedules

a. The compliance schedules specify the deliverables and due dates for the TRE Workplan, TDS Study, Spill Response Plan, Sludge Disposal and Notification Plan, and Pretreatment Report.

VIII. PUBLIC PARTICIPATION

The Regional Water Board is considering the issuance of WDRs that will serve as a NPDES permit for Coachella Sanitary District WWTP. As a step in the WDR adoption process, the Regional Water Board staff has developed tentative WDRs. The Regional Water Board encourages public participation in the WDR adoption process.

A. Notification of Interested Parties

The Regional Water Board has notified the Discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity to submit their written comments and recommendations. Notification was provided through the Desert Sun newspaper.

B. Written Comments

The staff determinations are tentative. Interested persons are invited to submit written comments concerning these tentative WDRs. Comments must be submitted 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.

In conjunction with this public notice for the proposed permit; USEPA is taking comments on that the use of freshwater criteria be applied to the receiving waters of the Coachella Valley Storm Water Channel at the discharge location and within 100 meters upstream and downstream of the wastewater discharge location from the City of Coachella Sanitary District Wastewater Treatment Plant in Coachella, California.

Comments made in reference to USEPA's public notice for the proposed permit, tentative approval letter for the use of freshwater criteria and the Biological Assessment should be directed to:

Matthew Mitchell USEPA 75 Hawthorne Street (WTR-5) San Francisco, CA 94105 (415) 972-3508

To be fully responded to by staff and considered by the Regional Water Board and USEPA, written comments must be received at the Regional Water Board and USEPA offices by 5:00 p.m. on **June 3, 2010**.

C. Public Hearing

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

Date:	June 17, 2010
Time:	10:00 AM
Location:	Hi-Desert Water District
	55-439 29 Palms Highway
	Yucca Valley, CA 92284

Interested persons are invited to attend. At the public hearing, the Regional Water Board will hear testimony, if any, pertinent to the discharge, WDRs, and permit. Oral testimony will be heard; however, for accuracy of the record, important testimony should be in writing.

Please be aware that dates and venues may change. The Regional Water Board's Web address is <u>http://www.waterboards.ca.gov/coloradoriver</u>, where you may access the Regional Water Board's current agenda and determine if changes in hearing dates and locations have been made.

D. Waste Discharge Requirements Petitions

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

http://www.waterboards.ca.gov/public notices/petitions/water quality

or will be provided upon request.

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

E. Information and Copying

The Report of Waste Discharge (RWD), related documents, tentative effluent limitations and special provisions, comments received, and other information 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 (760) 346-7491.

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 John Carmona at (760) 340-4521.

ATTACHMENT G – LIST OF PRIORITY POLLUTANTS

*Adapted from the Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California (State Implementation Policy or SIP)

Table G-1. List of Priority Pollutants							
CTR Number	Parameter	CAS Number	Suggested Analytical Methods				
1	Antimony	7440360	EPA 6020/200.8				
2	Arsenic	7440382	EPA 1632				
3	Beryllium	7440417	EPA 6020/200.8				
4	Cadmium	7440439	EPA 1638/200.8				
5a	Chromium (III)	16065831	EPA 6020/200.8				
5a	Chromium (VI)	18540299	EPA 7199/1636				
6	Copper	7440508	EPA 6020/200.8				
7	Lead	7439921	EPA 1638				
8	Mercury	7439976	EPA 1669/1631				
9	Nickel	7440020	EPA 6020/200.8				
10	Selenium	7782492	EPA 6020/200.8				
11	Silver	7440224	EPA 6020/200.8				
12	Thallium	7440280	EPA 6020/200.8				
13	Zinc	7440666	EPA 6020/200.8				
14	Cyanide	57125	EPA 9012A				
15	Asbestos	1332214	EPA 100.1				
16	2,3,7,8-TCDD	1746016	EPA 8290 (HRGC) MS				
17	Acrolein	107028	EPA 8260B				
18	Acrylonitrile	107131	EPA 8260B				
19	Benzene	71432	EPA 8260B				
20	Bromoform	75252	EPA 8260B				
21	Carbon Tetrachloride	56235	EPA 8260B				
22	Chlorobenzene	108907	EPA 8260B				
23	Chlorodibromomethane	124481	EPA 8260B				
24	Chloroethane	75003	EPA 8260B				
25	2-Chloroethylvinyl Ether	110758	EPA 8260B				
26	Chloroform	67663	EPA 8260B				
27	Dichlorobromomethane	75274	EPA 8260B				
28	1,1-Dichloroethane	75343	EPA 8260B				
29	1,2-Dichloroethane	107062	EPA 8260B				

Table G-1. List of Priority Pollutants

Attachment G – LIST OF PRIORITY POLLUTANTS

CTR Number	Parameter	CAS Number	Suggested Analytical Methods
30	1,1-Dichloroethylene	75354	EPA 8260B
31	1,2-Dichloropropane	78875	EPA 8260B
32	1,3-Dichloropropylene	542756	EPA 8260B
33	Ethylbenzene	100414	EPA 8260B
34	Methyl Bromide	74839	EPA 8260B
35	Methyl Chloride	74873	EPA 8260B
36	Methylene Chloride	75092	EPA 8260B
37	1,1,2,2-Tetrachloroethane	79345	EPA 8260B
38	Tetrachloroethylene	127184	EPA 8260B
39	Toluene	108883	EPA 8260B
40	1,2-Trans-Dichloroethylene	156605	EPA 8260B
41	1,1,1-Trichloroethane	71556	EPA 8260B
42	1,12-Trichloroethane	79005	EPA 8260B
43	Trichloroethylene	79016	EPA 8260B
44	Vinyl Chloride	75014	EPA 8260B
45	2-Chlorophenol	95578	EPA 8270C
46	2,4-Dichlorophenol	120832	EPA 8270C
47	2,4-Dimethylphenol	105679	EPA 8270C
48	2-Methyl-4,6-Dinitrophenol	534521	EPA 8270C
49	2,4-Dinitrophenol	51285	EPA 8270C
50	2-Nitrophenol	88755	EPA 8270C
51	4-Nitrophenol	100027	EPA 8270C
52	3-Methyl-4-Chlorophenol	59507	EPA 8270C
53	Pentachlorophenol	87865	EPA 8270C
54	Phenol	108952	EPA 8270C
55	2,4,6-Trichlorophenol	88062	EPA 8270C
56	Acenaphthene	83329	EPA 8270C
57	Acenaphthylene	208968	EPA 8270C
58	Anthracene	120127	EPA 8270C
59	Benzidine	92875	EPA 8270C
60	Benzo(a)Anthracene	56553	EPA 8270C
61	Benzo(a)Pyrene	50328	EPA 8270C
62	Benzo(b)Fluoranthene	205992	EPA 8270C
63	Benzo(ghi)Perylene	191242	EPA 8270C
64	Benzo(k)Fluoranthene	207089	EPA 8270C
65	Bis(2-Chloroethoxy)Methane	111911	EPA 8270C

CTR Number	Parameter	CAS Number	Suggested Analytical Methods
66	Bis(2-Chloroethyl)Ether	111444	EPA 8270C
67	Bis(2-Chloroisopropyl)Ether	108601	EPA 8270C
68	Bis(2-Ethylhexyl)Phthalate	117817	EPA 8270C
69	4-Bromophenyl Phenyl Ether	101553	EPA 8270C
70	Butylbenzyl Phthalate	85687	EPA 8270C
71	2-Chloronaphthalene	91587	EPA 8270C
72	4-Chlorophenyl Phenyl Ether	7005723	EPA 8270C
73	Chrysene	218019	EPA 8270C
74	Dibenzo(a,h)Anthracene	53703	EPA 8270C
75	1,2-Dichlorobenzene	95501	EPA 8260B
76	1,3-Dichlorobenzene	541731	EPA 8260B
77	1,4-Dichlorobenzene	106467	EPA 8260B
78	3,3'-Dichlorobenzidine	91941	EPA 8270C
79	Diethyl Phthalate	84662	EPA 8270C
80	Dimethyl Phthalate	131113	EPA 8270C
81	Di-n-Butyl Phthalate	84742	EPA 8270C
82	2,4-Dinitrotoluene	121142	EPA 8270C
83	2,6-Dinitrotoluene	606202	EPA 8270C
84	Di-n-Octyl Phthalate	117840	EPA 8270C
85	1,2-Diphenylhydrazine	122667	EPA 8270C
86	Fluoranthene	206440	EPA 8270C
87	Fluorene	86737	EPA 8270C
88	Hexachlorobenzene	118741	EPA 8260B
89	Hexachlorobutadiene	87863	EPA 8260B
90	Hexachlorocyclopentadiene	77474	EPA 8270C
91	Hexachloroethane	67721	EPA 8260B
92	Indeno(1,2,3-cd)Pyrene	193395	EPA 8270C
93	Isophorone	78591	EPA 8270C
94	Naphthalene	91203	EPA 8260B
95	Nitrobenzene	98953	EPA 8270C
96	N-Nitrosodimethylamine	62759	EPA 8270C
97	N-Nitrosodi-n-Propylamine	621647	EPA 8270C
98	N-Nitrosodiphenylamine	86306	EPA 8270C
99	Phenanthrene	85018	EPA 8270C
100	Pyrene	129000	EPA 8270C
101	1,2,4-Trichlorobenzene	120821	EPA 8260B

CTR Number	Parameter	CAS Number	Suggested Analytical Methods
102	Aldrin	309002	EPA 8081A
103	alpha-BHC	319846	EPA 8081A
104	beta-BHC	319857	EPA 8081A
105	gamma-BHC	58899	EPA 8081A
106	delta-BHC	319868	EPA 8081A
107	Chlordane	57749	EPA 8081A
108	4,4'-DDT	50293	EPA 8081A
109	4,4'-DDE	72559	EPA 8081A
110	4,4'-DDD	72548	EPA 8081A
111	Dieldrin	60571	EPA 8081A
112	alpha-Endosulfan	959988	EPA 8081A
113	beta-Endosulfan	33213659	EPA 8081A
114	Endosulfan Sulfate	1031078	EPA 8081A
115	Endrin	72208	EPA 8081A
116	Endrin Aldehyde	7421934	EPA 8081A
117	Heptachlor	76448	EPA 8081A
118	Heptachlor Epoxide	1024573	EPA 8081A
119	PCB-1016	12674112	EPA 8082
120	PCB-1221	11104282	EPA 8082
121	PCB-1232	11141165	EPA 8082
122	PCB-1242	53469219	EPA 8082
123	PCB-1248	12672296	EPA 8082
124	PCB-1254	11097691	EPA 8082
125	PCB-1260	11096825	EPA 8082
126	Toxaphene	8001352	EPA 8081A

ATTACHMENT H - STATE WATER BOARD MINIMUM LEVELS

The State Water Board Minimum Levels (MLs) in this appendix are for use in reporting and compliance determination purposes in accordance with section 2.4 of the State Implementation Policy. These MLs were derived from data for priority pollutants provided by State certified analytical laboratories in 1997 and 1998. These MLs shall be used until new values are adopted by the State Water Board and become effective. The following tables (Tables 2a - 2d) present MLs for four major chemical groupings: volatile substances, semi-volatile substances, inorganics, and pesticides and PCBs. The MLs in this appendix are in parts per billion (μ g/L).

Table 2a - VOLATILE SUBSTANCES*	GC	GCMS
1,1 Dichloroethane	0.5	1
1,1 Dichloroethylene	0.5	2
1,1,1 Trichloroethane	0.5	2
1,1,2 Trichloroethane	0.5	2
1,1,2,2 Tetrachloroethane	0.5	1
1,2 Dichlorobenzene (volatile)	0.5	2
1,2 Dichloroethane	0.5	2
1,2 Dichloropropane	0.5	1
1,3 Dichlorobenzene (volatile)	0.5	2
1,3 Dichloropropene (volatile)	0.5	2
1,4 Dichlorobenzene (volatile)	0.5	2
Acrolein	2.0	5
Acrylonitrile	2.0	2
Benzene	0.5	2
Bromoform	0.5	2
Methyl Bromide	1.0	2
Carbon Tetrachloride	0.5	2
Chlorobenzene	0.5	2
Chlorodibromo-methane	0.5	2
Chloroethane	0.5	2
Chloroform	0.5	2
Chloromethane	0.5	2
Dichlorobromo-methane	0.5	2
Dichloromethane	0.5	2
Ethylbenzene	0.5	2
Tetrachloroethylene	0.5	2
Toluene	0.5	2
Trans-1,2 Dichloroethylene	0.5	1
Trichloroethene	0.5	2
Vinyl Chloride	0.5	2

Table H-1.Volatile Substances

*The normal method-specific factor for these substances is 1; therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance.

Table H-2. Semi-Volatile Substances

Table 2b - SEMI-VOLATILE SUBSTANCES*	GC	GCMS	LC	COLOR
Benzo (a) Anthracene	10	5		
1,2 Dichlorobenzene (semivolatile)	2	2		
1,2 Diphenylhydrazine		1		
1,2,4 Trichlorobenzene	1	5		
1,3 Dichlorobenzene (semivolatile)	2	1		
1,4 Dichlorobenzene (semivolatile)	2	1		
2 Chlorophenol	2	5		
2,4 Dichlorophenol	1	5		
2,4 Dimethylphenol	1	2		
2,4 Dinitrophenol	5	5		
2,4 Dinitrotoluene	10	5		
2,4,6 Trichlorophenol	10	10		
2,6 Dinitrotoluene		5		
2- Nitrophenol		10		
2-Chloroethyl vinyl ether	1	1		
2-Chloronaphthalene		10		
3,3' Dichlorobenzidine		5		
Benzo (b) Fluoranthene		10	10	
3-Methyl-Chlorophenol	5	1		
4,6 Dinitro-2-methylphenol	10	5		
4- Nitrophenol	5	10		
4-Bromophenyl phenyl ether	10	5		
4-Chlorophenyl phenyl ether		5		
Acenaphthene	1	1	0.5	
Acenaphthylene		10	0.2	
Anthracene		10	2	
Benzidine		5		
Benzo(a) pyrene		10	2	
Benzo(g,h,i)perylene		5	0.1	
Benzo(k)fluoranthene		10	2	
bis 2-(1-Chloroethoxyl) methane		5		
bis(2-chloroethyl) ether	10	1		
bis(2-Chloroisopropyl) ether	10	2		
bis(2-Ethylhexyl) phthalate	10	5		
Butyl benzyl phthalate	10	10		
Chrysene		10	5	
di-n-Butyl phthalate		10		
di-n-Octyl phthalate		10		
Dibenzo(a,h)-anthracene		10	0.1	
Diethyl phthalate	10	2		
Dimethyl phthalate	10	2		
Fluoranthene	10	1	0.05	
Fluorene		10	0.1	
Hexachloro-cyclopentadiene	5	5		
Hexachlorobenzene	5	1		

Attachment H – State Water Board Minimum Levels

Table 2b - SEMI-VOLATILE SUBSTANCES*	GC	GCMS	LC	COLOR
Hexachlorobutadiene	5	1		
Hexachloroethane	5	1		
Indeno(1,2,3,cd)-pyrene		10	0.05	
Isophorone	10	1		
N-Nitroso diphenyl amine	10	1		
N-Nitroso-dimethyl amine	10	5		
N-Nitroso -di n-propyl amine	10	5		
Naphthalene	10	1	0.2	
Nitrobenzene	10	1		
Pentachlorophenol	1	5		
Phenanthrene		5	0.05	
Phenol **	1	1		50
Pyrene		10	0.05	

*With the exception of phenol by colorimetric technique, the normal method-specific factor for these substances is 1,000; therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance multiplied by 1,000.

**Phenol by colorimetric technique has a factor of 1.

Table H-3. Inorganics

Table 2c – INORGANICS*	FAA	GFAA	ICP	ICPMS	SPGFAA	HYDRIDE	CVAA	COLOR	DCP
Antimony	10	5	50	0.5	5	0.5			1,000
Arsenic		2	10	2	2	1		20	1,000
Beryllium	20	0.5	2	0.5	1				1,000
Cadmium	10	0.5	10	0.25	0.5				1,000
Chromium (total)	50	2	10	0.5	1				1,000
Chromium VI	5							10	
Copper	25	5	10	0.5	2				1,000
Cyanide								5	
Lead	20	5	5	0.5	2				10,000
Mercury				0.5			0.2		
Nickel	50	5	20	1	5				1,000
Selenium		5	10	2	5	1			1,000
Silver	10	1	10	0.25	2				1,000
Thallium	10	2	10	1	5				1,000
Zinc	20		20	1	10				1,000

*The normal method-specific factor for these substances is 1; therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance.

Table H-4. Pesticides and PCBs

Table 2d – PESTICIDES – PCBs*	GC
4,4'-DDD	0.05
4,4'-DDE	0.05
4,4'-DDT	0.01
a-Endosulfan	0.02
alpha-BHC	0.01
Aldrin	0.005
b-Endosulfan	0.01
Beta-BHC	0.005
Chlordane	0.1
Delta-BHC	0.005
Dieldrin	0.01
Endosulfan Sulfate	0.05
Endrin	0.01
Endrin Aldehyde	0.01
Heptachlor	0.01
Heptachlor Epoxide	0.01
Gamma-BHC (Lindane)	0.02
PCB 1016	0.5
PCB 1221	0.5
PCB 1232	0.5
PCB 1242	0.5
PCB 1248	0.5
PCB 1254	0.5
PCB 1260	0.5
Toxaphene	0.5

*The normal method-specific factor for these substances is 100; therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance multiplied by 100.

Techniques:

GC - Gas Chromatography

GCMS - Gas Chromatography/Mass Spectrometry

HRGCMS - High Resolution Gas Chromatography/Mass Spectrometry (i.e., EPA 1613, 1624, or 1625)

LC - High Pressure Liquid Chromatography

FAA - Flame Atomic Absorption

GFAA - Graphite Furnace Atomic Absorption

HYDRIDE - Gaseous Hydride Atomic Absorption

CVAA - Cold Vapor Atomic Absorption

ICP - Inductively Coupled Plasma

ICPMS - Inductively Coupled Plasma/Mass Spectrometry

SPGFAA - Stabilized Platform Graphite Furnace Atomic Absorption (i.e., EPA 200.9)

DCP - Direct Current Plasma

COLOR – Colorimetric

ATTACHMENT I – SUMMARY OF WQBELS CALCULATIONS

The WQBELs developed for this Order are summarized below and were calculated as described in the methodology summarized in Attachment F, Fact Sheet and are contained in section IV.A.1.c of this Order.

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CTR #	Parameter	Human Health Calculations Organism Only			Aquatic Life Calculations											Effluent Limitations	
					Freshwater												
		AMEL HH = ECA = MDEL/ C AMEL HH only multiplier	MDEL HH	ECA acute = C acute	ECA acute		ECA chronic = C chronic	ECA chronic multiplier	LTA chronic	Lowest LTA	AMEL multiplier 95	AMEL aquatic life	MDEL multiplier 99	MDEL aquatic life	AMEL	MDEL	
		μg/L		μg/L	μg/L		μg/L	μg/L		μg/L	μg/L					μg/L	μg/L
6	Copper				19.22	0.30	5.70	12.44	0.50	6.21	5.70	1.61	9.17	3.37	19.22	9.2	19
13	Zinc				159.34	0.37	58.55	159.34	0.58	91.82	58.55	1.46	85.68	2.72	159.34	86	159
68	Bis(2- ethylhexyl) phthalate	5.9	2.44	14.41												5.9	14

Table I-1. Summary of WQBELs Calculations

Notes:

C = Water Quality Criteria

HH = Human health

AMEL = Average monthly effluent limitation

MDEL = Maximum daily effluent limitation

ECA = Effluent concentration allowance

LTA = Long-term average concentration