



# California Regional Water Quality Control Board

## Los Angeles Region

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Linda S. Adams  
Agency Secretary

Arnold Schwarzenegger  
Governor

**ORDER NO. R4-2006-0064**  
**NPDES NO. CA0058297**

The following Discharger is authorized to discharge in accordance with the conditions set forth in this Order:

<b>Discharger</b>	Jamison 1545 Wilshire, LLC (Former Adams Plaza)
<b>Name of Facility</b>	Jamison 1545 Wilshire, LLC
<b>Facility Address</b>	1545 Wilshire Blvd.
	Los Angeles, CA 90018
	Los Angeles County

The Discharger is authorized to discharge from the following discharge points as set forth below:

Discharge Point	Effluent Description	Discharge Point Latitude	Discharge Point Longitude	Receiving Water
001	Groundwater Seepage	34° 02' 69" N	118° 15' 53" W	Ballona Creek, above the Estuary
002	Cooling tower bleed-off, washdown and drainage water	34° 02' 69" N	118° 15' 53" W	Ballona Creek, above the Estuary

This Order was adopted by the Regional Water Board on:	<b>August 3, 2006</b>
This Order shall become effective on:	<b>September 2, 2006</b>
This Order shall expire on:	<b>July 10, 2011</b>
The U.S. Environmental Protection Agency (USEPA) and the Regional Water Board have classified this discharge as a minor discharge.	
The Discharger shall file a Report of Waste Discharge in accordance with Title 23, California Code of Regulations, <b>not later than 180 days in advance of the Order expiration date</b> as application for issuance of new waste discharge requirements.	

IT IS HEREBY ORDERED, that Order No. 97-101 is rescinded upon the effective date of this Order except for enforcement purposes, and, in order to meet the provisions contained in Division 7 of the California Water Code (CWC) 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.

I, Jonathan S. Bishop, Executive Officer, do hereby certify the following is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Region, on August 3, 2006.

  
 Chief Deputy E.O.  
 Jonathan S. Bishop, Executive Officer  
*fsr*

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
 REGION 4, LOS ANGELES REGION**

ORDER NO. R4-2006-0064  
 NPDES NO. CA0058297

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## I. FACILITY INFORMATION

The following Discharger is authorized to discharge in accordance with the conditions set forth in this Order:

<b>Discharger</b>	Jamison 1545 Wilshire, LLC (Former Adams Plaza)
<b>Name of Facility</b>	Jamison 1545 Wilshire, LLC
<b>Facility Address</b>	1545 Wilshire Boulevard
	Los Angeles, CA 90018
	Los Angeles County
<b>Facility Contact, Title, and Phone</b>	Regina Cho, Property Manager (213) 484-6518
<b>Mailing Address</b>	1541 Wilshire Boulevard, Suite 506, Los Angeles, CA 90017
<b>Type of Facility</b>	Commercial Office Building
<b>Facility Design Flow</b>	Not Available

## II. FINDINGS

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

A. **Background.** Jamison 1545 Wilshire, LLC (hereinafter Jamison or Discharger) is currently discharging under Order No. 97-101 and National Pollutant Discharge Elimination System (NPDES) Permit No. CA0058297. The Discharger submitted a Report of Waste Discharge (ROWD), dated December 14, 2005, and applied for a NPDES permit renewal to discharge groundwater seepage and cooling tower bleed-off, washdown and drainage water. The application was deemed complete on January 30, 2006.

B. **Facility Description.** The Jamison is the new owner and operator of an office building (Facility) located at 1545 Wilshire Boulevard, Los Angeles, California. The Facility was formerly owned and operated by Adams Plaza. The Facility changed ownership on April 7, 2004. The Facility is a multi-story, commercial office building with an office space consisting of approximately 83,000 square feet of rentable area.

Jamison intermittently discharges up to 2,000 gallons per day (gpd) of groundwater seepage and up to 5,000 gpd of wastewater (i.e., cooling tower bleed-off, and occasional drainage and washdown wastes) from cooling tower units.

Groundwater seepage is collected in a sump located in the building's basement, adjacent to the parking garage. The discharge of groundwater seepage occurs when the groundwater reaches a certain level in the sump and the sump pump automatically turns on. The groundwater discharge is not treated. Groundwater seepage is pumped from the sump up to the ceiling through a 1-inch diameter PVC pipe. The PVC pipe runs along the ceiling that is connected to a larger pipe running along the basement ceiling. The groundwater is directed to a storm drain (Discharge Point 001) located at Union Avenue, and eventually combines with the wastewater from the cooling tower into a storm drain located at Wilshire Boulevard. The combined wastes flow into Ballona Creek, a water of the United States, above the Estuary. The discharge of groundwater is intermittent and occurs during winter and heavy rainfall in spring.

Cooling tower water is obtained from the City of Los Angeles general water supply system. The cooling tower bleed-off, occasional drainage and washdown wastes is directed into a roof drain, which directs the cooling tower wastewater to a storm drain (Discharge Point 002) located at Wilshire Boulevard then flows into Ballona Creek, a water of the United States, above the Estuary. The cooling tower water is treated with a biodegradable material to control corrosion and scaling of the tubes of the cooling system.

Jamison is exploring the option of discharging the groundwater seepage, and cooling tower bleed-off, occasional drainage and washdown wastes into the sanitary sewer.

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 (CWC). 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 of the CWC for discharges that are not subject to regulation under CWA Section 402.

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 through special studies. Attachments A through I, which contain background information and rationale for Order requirements, are hereby incorporated into this Order and, thus, constitute part of the Findings for this Order.

- E. **California Environmental Quality Act (CEQA).** This action to adopt a NPDES permit is exempt from the provisions of the California Environmental Quality Act (Public Resources Code Section 21100, et seq.) in accordance with Section 13389 of the CWC.
- F. **Technology-based Effluent Limitations.** The Code of Federal Regulations (CFR) at 40 CFR §122.44(a) requires that permits include applicable technology-based limitations and standards. This Order includes technology-based effluent limitations based on Best Professional Judgment (BPJ) in accordance with 40 CFR §125.3. A detailed discussion of the technology-based effluent limitation development is included in the Fact Sheet (Attachment F).
- G. **Water Quality-based Effluent Limitations.** Section 122.44(d) of 40 CFR requires that permits include water quality-based effluent limitations (WQBELs) to attain and maintain applicable numeric and narrative water quality criteria to protect the beneficial uses of the receiving water. Where numeric water quality objectives have not been established, 40 CFR §122.44(d) specifies that WQBELs may be established using USEPA criteria guidance under CWA Section 304(a), proposed State criteria or a State policy interpreting narrative criteria supplemented with other relevant information, or an indicator parameter.

USEPA approved the State's 2002 303(d) list of impaired water bodies on July 25, 2003. Certain receiving waters in Los Angeles County watersheds do not fully support beneficial uses and therefore have been classified as impaired on the 2002 303(d) list and have been scheduled for Total Maximum Daily Load (TMDL) development. According to the 2002 303(d) list, the Ballona Creek is impaired for cadmium (sediment), chemoA [refers to the sum of aldrin, dieldrin, chlordane, endrin, heptachlor, heptachlor epoxide, HCH (including lindane), endosulfan, and toxaphene] tissue, chlordane (tissue), dissolved copper, DDT (tissue), dieldrin (tissue), enteric viruses, high coliform count, dissolved lead, PCBs (tissue), pH, sediment toxicity, total selenium, silver (sediment), toxicity, and dissolved zinc. To date, only trash and metals (i.e., copper, lead, selenium, and zinc) TMDLs have been approved by USEPA for this segment of water.

#### **Ballona Creek Trash TMDL:**

On September 9, 2001, the Regional Water Board adopted Resolution No. 2001-014, *Amendment to the Basin Plan for the Los Angeles Region to Incorporate the Ballona Creek Trash TMDL (Trash TMDL)*. The Trash TMDL was approved by the State Board on February 19, 2002, and the Office of Administrative Law (OAL) on July 18, 2002. On August 1, 2002, USEPA approved the Trash TMDL and became effective on August 28, 2002. However, on March 4, 2004, the Regional Water Board adopted Resolution No 2004-023, *Revision to the Ballona Creek Trash TMDL*. The revised Trash TMDL was approved by the State Board on September 30, 2004, and the OAL on February 8, 2005, and became effective on August 11, 2005. There is no effluent limitation based on the Trash TMDL prescribed in this Order.

#### **Ballona Creek Metals TMDL:**

On July 7, 2005, the Regional Water Board adopted Resolution No. 2005-007, *Amendment to the Basin Plan for the Los Angeles Region to Incorporate the Ballona Creek Metals TMDL (Metals TMDL)*. The Metals TMDL was approved by the State Board on October 20, 2005, and the OAL on December 22, 2005. On December 22, 2005, USEPA approved the Metal TMDL

and became effective on January 11, 2006. The Ballona Creek Metals TMDL specifies the numeric water quality targets (NWQT) and waste load allocations (WLAs) for copper, lead, selenium, and zinc for all point source discharges to Ballona Creek and Sepulveda Canyon Channel. The NWQT and WLAs for the specified metals (except selenium) are expressed as total recoverables. Jamison discharges wastes to Ballona Creek. Therefore, effluent limits for the specified metals are prescribed in this Order and are based on the WLAs.

H. **Water Quality Control Plans.** The Regional Water Board adopted a Water Quality Control Plan for the Los Angeles Region (hereinafter Basin Plan) 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. In addition, State Water Resources Control Board (State Water Board) Resolution No. 88-63 requires that, with certain exceptions, the Regional Water Board assign the municipal and domestic supply use to water bodies that do not have beneficial uses listed in the Basin Plan. Beneficial uses applicable to Ballona Creek are as follows:

Discharge Point	Receiving Water Name	Beneficial Use(s)
001 and 002	Ballona Creek, above the Estuary	<u>Existing:</u> Non-contact water recreation (REC-2); wildlife habitat (WILD).  <u>Potential:</u> Municipal and domestic supply (MUN) <sup>1</sup> water contact recreation (REC-1); warm freshwater habitat (WARM).

<sup>1</sup> The Basin Plan identifies municipal and domestic water supplies as a potential use. The potential use is noted as follows: "Some designations may be considered for exemptions at a later date."

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 inland surface waters.

**Ammonia Basin Plan Amendment.** The 1994 Basin Plan provided water quality objectives for ammonia to protect aquatic life, in Tables 3-1 through Tables 3-4. However, those ammonia objectives were revised on April 25, 2002, by the Regional Board with the adoption of Resolution No. 2002-011, *Amendment to the Water Quality Control Plan for the Los Angeles Region to Update the Ammonia Objectives for Inland Surface Waters (Including Enclosed Bays, Estuaries and Wetlands) with Beneficial Use Designations for Protection of "Aquatic Life"*. The Ammonia Basin Plan Amendment became effective on July 15, 2003.

Requirements of this Order specifically implement the applicable Water Quality Control Plans.

- I. **National Toxics Rule (NTR) and California Toxics Rule (CTR).** USEPA adopted the NTR on December 22, 1992, which was amended on May 4, 1995 and November 9, 1999, and the CTR on May 18, 2000, which was amended on February 13, 2001. These rules include water quality criteria for priority pollutants and are applicable to this discharge.
- J. **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 Boards in their basin plans, with the exception of the provision on alternate test procedures for individual

discharges that have been approved by USEPA Regional Administrator. The alternate test procedures provision was effective on May 22, 2000. The SIP became effective on May 18, 2000. The SIP includes procedures for determining the need for and calculating WQBELs and requires dischargers to submit data sufficient to do so. The State Water Board adopted amendments to the SIP on February 24, 2005, was approved by the Office of Administrative Law (OAL) on May 31, 2005, and the USEPA approved it on July 13, 2005. The CTR's Compliance Schedule provisions sunset on May 17, 2005. After this date, the provisions of the SIP allow for Compliance Schedules not to exceed five years from permit issuance or May 17, 2010, whichever is sooner.

- K. **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 Basin Plan, 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 compliance schedules and interim effluent limitations. A detailed discussion of the basis for the compliance schedule and interim effluent limitations is included in the Fact Sheet (Attachment F).
- L. **Antidegradation Policy.** Section 131.12 of 40 CFR requires that 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, which incorporates the requirements of the federal antidegradation policy. Resolution No. 68-16 requires that existing quality of waters be maintained unless degradation is justified based on specific findings. As discussed in detail in the Fact Sheet (Attachment F), the permitted discharge is consistent with the antidegradation provision of 40 CFR §131.12 and State Water Board Resolution No. 68-16.
- M. **Anti-Backsliding Requirements.** Sections 402(o)(2) and 303(d)(4) of the CWA and federal regulations at 40 CFR §122.44(l) prohibit backsliding in NPDES permits. These anti-backsliding provisions require effluent limitations in a reissued permit to be as stringent as those in the previous permit, with some exceptions where limitations may be relaxed. All effluent limitations in this Order are at least as stringent as the effluent limitations in the existing Order.
- N. **Monitoring and Reporting.** Section 122.48 of 40 CFR requires that all NPDES permits specify requirements for recording and reporting monitoring results. Sections 13267 and 13383 of the CWC authorize the Regional Water Boards to require technical and monitoring reports. The Monitoring and Reporting Program (hereinafter MRP) establishes monitoring and reporting requirements to implement federal and State requirements. This MRP is provided in Attachment E.
- O. **Standard and Special Provisions.** Standard Provisions, which in accordance with 40 CFR §§ 122.41 and 122.42, apply to all NPDES discharges and must be included in every NPDES permit, are provided in Attachment D. 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 (Attachment F).

- P. **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 (Attachment F) of this Order.
- Q. **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 (Attachment F) of this Order.

### III. DISCHARGE PROHIBITIONS

- A. Wastes discharged shall be limited to a maximum of 2,000 gpd of groundwater seepage for Discharge Point 001, and 5,000 gpd of wastewater for Discharge Point 002 as described in the Findings. The discharge of wastes from accidental spills or other sources is prohibited.
- B. Discharges of water, materials, thermal wastes, elevated temperature wastes, toxic wastes, deleterious substances, or wastes other than those authorized by this Order, to a storm drain system, Ballona Creek, or other waters of the State, are prohibited.
- C. Neither the treatment nor the discharge of pollutants shall create a pollution, contamination, or nuisance as defined by Section 13050 of the CWC.
- D. Wastes discharged shall not contain any substances in concentrations toxic to human, animal, plant, or aquatic life.
- E. The discharge shall not cause a violation of any applicable water quality standards for receiving waters adopted by the Regional Water Board or the State Water Resources Control Board as required by the CWA and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the CWA, and amendments thereto, the Regional Water Board will revise and modify this Order in accordance with such more stringent standards.
- F. The discharge of any radiological, chemical, or biological warfare agent or high level radiological waste is prohibited.
- G. Any discharge of wastes at any point(s) other than specifically described in this Order is prohibited, and constitutes a violation of the Order.

**IV. EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS**

**A. Effluent Limitations – Discharge Point 001 and Discharge Point 002**

**1. Final Effluent Limitations – Discharge Point 001**

- a. The discharge of groundwater seepage shall maintain compliance with the following effluent limitations at Discharge Point 001, with compliance measured at Monitoring Location M-001, as described in the attached Monitoring and Reporting Program (MRP - Attachment E):

Parameter	Units	Effluent Limitations			
		Average Monthly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Biochemical Oxygen Demand (BOD) (5-day @ 20°C)	mg/L	--	30	--	--
	lbs/day <sup>1</sup>	--	0.5	--	--
Oil and Grease	mg/L	--	15	--	--
	lbs/day <sup>1</sup>	--	0.25	--	--
PH	standard units	--		6.5	8.5
Total Suspended Solids	mg/L	--	75	--	--
	lbs/day <sup>1</sup>	--	1.25	--	--
Settleable Solids	ml/L	--	0.3	--	--
Temperature	°F	--	86	--	--
Turbidity	NTU	--	75	--	--
Sulfides	mg/L	--	1.0	--	--
	lbs/day <sup>1</sup>	--	0.017		
Methyl Tertiary Butyl Ether (MTBE)	µg/L	--	5 <sup>2</sup>	--	--
	lbs/day <sup>1</sup>	--	0.00008	--	--
Copper, Total Recoverable	µg/L	--	24 <sup>3</sup>	--	--
	lbs/day <sup>1</sup>	--	0.0004	--	--
Lead, Total Recoverable	µg/L	--	13 <sup>3</sup>	--	--
	Lbs/day <sup>1</sup>	--	0.00022	--	--
Selenium	µg/L	--	5 <sup>3</sup>	--	--
	Lbs/day <sup>1</sup>	--	0.00008	--	--
Zinc, Total Recoverable	µg/L	--	304 <sup>3</sup>	--	--
	Lbs/day <sup>1</sup>	--	0.0051	--	--

<sup>1</sup> Mass-based effluent limitations are based on a maximum discharge flow rate of 2,000 gpd (0.002 MGD).

<sup>2</sup> The existing permit prescribed effluent limitations for methyl tertiary butyl ether (MTBE) of 35 µg/L. Assembly Bill 592 (October 8, 1997) requires the State of California, Department of Health Services (DHS) to adopt primary and secondary drinking water standards for MTBE. In January 1999, the DHS adopted 5 µg/L as the secondary standard for MTBE based on taste and odor threshold. Therefore, this Order includes an effluent limitation for MTBE of 5 µg/L.

<sup>3</sup> This is the waste load allocation (WLA), according to the Ballona Creek Metals TMDL, Resolution No. 2005-007, adopted by the Regional Board on July 7, 2005, and effective on January 11, 2006. The WLA serves as the effluent limitation for the discharge.

b. **Acute Toxicity Limitation:** There shall be no acute toxicity in the discharge. The acute toxicity of the effluent shall be such that:

- (1) The average survival in the undiluted effluent for any three (3) consecutive 96-hour static or continuous flow bioassay tests shall be at least 90% survival, and
- (2) No single test producing less than 70% survival. Compliance with the toxicity objectives will be determined by the methods described in Section V of the MRP (Attachment E).

## 2. Final Effluent Limitations – Discharge Point 002

a. The discharge of wastewater (i.e., cooling tower bleedoff, and occasional drainage and washdown wastes) from cooling tower units shall maintain compliance with the following effluent limitations at Discharge Point 002, with compliance measured at Monitoring Locations M-002 as described in the attached MRP (Attachment E):

Parameter	Units	Effluent Limitations			
		Average Monthly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Biochemical Oxygen Demand (BOD) (5-day @ 20°C)	mg/L	--	30	--	--
	lbs/day <sup>1</sup>	--	1.3	--	--
Oil and Grease	mg/L	--	15	--	--
	lbs/day <sup>1</sup>	--	0.63	--	--
PH	Standard units	--	--	6.5	8.5
Total Suspended Solids	mg/L	--	75	--	--
	lbs/day <sup>1</sup>	--	3.13	--	--
Settleable Solids	ml/L	--	0.3	--	--
Temperature	°F	--	86	--	--
Turbidity	NTU	--	75	--	--
Copper, Total Recoverable	µg/L	--	24 <sup>2,3</sup>	--	--
	lbs/day <sup>1</sup>	--	0.001 <sup>3</sup>	--	--
Lead, Total Recoverable	µg/L	--	13 <sup>2</sup>	--	--
	lbs/day <sup>1</sup>	--	0.00051	--	--
Selenium	µg/L	--	5 <sup>2</sup>	--	--
	lbs/day <sup>1</sup>	--	0.00021	--	--
Bromoform	µg/L	--	8.6 <sup>3</sup>	--	--
	lbs/day <sup>1</sup>	--	0.0004 <sup>3</sup>	--	--
Chlorodibromomethane	µg/L	--	0.82 <sup>3</sup>	--	--
	lbs/day <sup>1</sup>	--	0.00003 <sup>3</sup>	--	--
Dichlorobromomethane	µg/L	--	1.1 <sup>3</sup>	--	--
	lbs/day <sup>1</sup>	--	0.00005 <sup>3</sup>	--	--

<sup>1</sup> Mass-based effluent limitations are based on a maximum discharge flow rate of 5,000 gpd (0.005 MGD).

<sup>2</sup> This is the waste load allocation (WLA), according to the Ballona Creek Metals TMDL, Resolution No. 2005-007, adopted by the Regional Board on July 7, 2005, and effective on January 11, 2006. The WLA serves as the effluent limitation for the discharge.

<sup>3</sup> These final effluent limitations are in effect beginning September 3, 2009.

b. **Acute Toxicity Limitation:** There shall be no acute toxicity in the discharge. The acute toxicity of the effluent shall be such that:

- (1) The average survival in the undiluted effluent for any three (3) consecutive 96-hour static or continuous flow bioassay tests shall be at least 90% survival, and
- (2) No single test producing less than 70% survival. Compliance with the toxicity objectives will be determined by the methods described in Section V of the MRP (Attachment E).

**2. Interim Effluent Limitations – Discharge Point 002**

a. From the effective of this Order until September 2, 2009, the discharge of wastewater from cooling tower units shall maintain compliance with the following interim effluent limitations at Discharge Point 002, with compliance measured at Monitoring Location M-002 as described in the attached MRP (Attachment E). These interim effluent limitations shall apply in lieu of the corresponding final effluent limitations specified in IV.2.a. for the same parameters during the time period indicated in this provision.

Parameters	Unit	Maximum Daily Effluent Limitation
Copper, Total Recoverable	µg/L	230
	Lbs/day <sup>1</sup>	0.0096
Bromoform	µg/L	8.6
	Lbs/day <sup>1</sup>	0.00036
Chlorodibromomethane	µg/L	15
	Lbs/day <sup>1</sup>	0.00062
Dichlorobromomethane	µg/L	11
	Lbs/day <sup>1</sup>	0.00046

<sup>1</sup> Based on a daily maximum flow rate of 0.005 MGD.

**B. Land Discharge Specifications**

Not Applicable.

**C. Reclamation Specifications**

Not Applicable.

**V. RECEIVING WATER LIMITATIONS**

**A. Surface Water Limitations**

Receiving water limitations are based on water quality objectives contained in the Basin Plan and are a required part of this Order. The discharge shall not cause the following in Ballona Creek.

1. The normal ambient pH to fall below 6.5 nor exceed 8.5 units nor vary from normal ambient pH levels by more than 0.5 units.

2. Depress the concentration of dissolved oxygen to fall below 5.0 mg/L anytime, and the median dissolved oxygen concentration for any three consecutive months shall not be less than 80 percent of the dissolved oxygen content at saturation.
3. Surface water temperature to rise greater than 5° F above the natural temperature of the receiving waters at any time or place. At no time the temperature be raised above 80° F as a result of waste discharged.
4. Exceed total ammonia (as N) concentrations specified in the Regional Water Board Resolution 2002-011. Resolution No. 2002-011, *Amendment to the Water Quality Control Plan for the Los Angeles Region to Update the Ammonia Objectives for Inland Surface Waters (Including Enclosed Bays, Estuaries and Wetlands) with Beneficial Use Designations for Protection of "Aquatic Life"*. The Ammonia Basin Plan Amendment became effective on July 15, 2003.
5. The presence of visible, floating, suspended or deposited macroscopic particulate matter or foam.
6. Oils, greases, waxes, or other materials in concentrations that result in a visible film or coating on the surface of the receiving water or on objects in the water.
7. Suspended or settleable materials, chemical substances or pesticides in amounts that cause nuisance or adversely affect any designated beneficial use.
8. Toxic or other deleterious substances in concentrations or quantities which cause deleterious effects on aquatic biota, wildlife, or waterfowl or render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.
9. Accumulation of bottom deposits or aquatic growths.
10. Biostimulatory substances at concentrations that promote aquatic growth to the extent that such growth causes nuisance or adversely affects beneficial uses.
11. The presence of substances that result in increases of BOD that adversely affect beneficial uses.
12. Taste or odor-producing substances in concentrations that alter the natural taste, odor, and/or color of fish, shellfish, or other edible aquatic resources; cause nuisance; or adversely affect beneficial uses.
13. Alteration of turbidity, or apparent color beyond present natural background levels.
14. Damage, discolor, nor cause formation of sludge deposits on flood control structures or facilities nor overload the design capacity.
15. Degrade surface water communities and populations including vertebrate, invertebrate, and plant species.
16. Problems associated with breeding of mosquitoes, gnats, black flies, midges, or other pests.
17. Create nuisance, or adversely effect beneficial uses of the receiving water.

18. Violation of any applicable water quality standards for receiving waters adopted by the Regional Water Board or State Water Board. If more stringent applicable water quality standards are promulgated or approved pursuant to § 303 of the CWA, or amendments thereto, the Regional Water Board will revise or modify this Order in accordance with such standards.

## **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. This Order may be modified, revoked, reissued, or terminated in accordance with the provisions of 40 CFR §§122.44, 122.62, 122.63, 122.64, 125.62 and 125.64. Causes for taking such actions include, but are not limited to: failure to comply with any condition of this Order; endangerment to human health or the environment resulting from the permitted activity; or acquisition of newly-obtained information which would have justified the application of different conditions if known at the time of Order adoption. The filing of a request by the Discharger for an Order modification, revocation, and issuance or termination, or a notification of planned changes or anticipated noncompliance does not stay any condition of this Order.
  - b. The Discharger must comply with the lawful requirements of municipalities, counties, drainage districts, and other local agencies regarding discharges of storm water to storm drain systems or other water courses under their jurisdiction; including applicable requirements in municipal storm water management program developed to comply with NPDES permits issued by the Regional Water Board to local agencies.
  - c. Discharge of wastes to any point other than specifically described in this Order and permit is prohibited and constitutes a violation thereof.
  - d. The Discharger shall comply with all applicable effluent limitations, national standards of performance, toxic effluent standards, and all federal regulations established pursuant to Sections 301, 302, 303(d), 304, 306, 307, 316, 318, 405, and 423 of the CWA.
  - e. These requirements do not exempt the operator of the waste disposal facility from compliance with any other laws, regulations, or ordinances which may be applicable; they do not legalize this waste disposal facility, and they leave unaffected any further restraints on the disposal of wastes at this site which may be contained in other statutes or required by other agencies.
  - f. Oil or oily material, chemicals, refuse, or other pollutionable materials shall not be stored or deposited in areas where they may be picked up by rainfall and carried off of the

property and/or discharged to surface waters. Any such spill of such materials shall be contained and removed immediately.

- g. A copy of these waste discharge specifications shall be maintained at the discharge facility so as to be available at all times to operating personnel.
- h. After notice and opportunity for a hearing, this Order may be terminated or modified for cause, including, but not limited to:
  - 1. Violation of any term or condition contained in this Order;
  - 2. Obtaining this Order by misrepresentation, or failure to disclose all relevant facts; and/or
  - 3. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- i. If there is any storage of hazardous or toxic materials or hydrocarbons at this facility and if the facility is not manned at all times, a 24-hour emergency response telephone number shall be prominently posted where it can easily be read from the outside.
- j. The Discharger shall notify the Regional Water Board not later than 120 days in advance of implementation of any plans to alter production capacity of the product line of the manufacturing, producing or processing facility by more than ten percent. Such notification shall include estimates of proposed production rate, the type of process, and projected effects on effluent quality. Notification shall include submittal of a new report of waste discharge appropriate filing fee.
- k. The Discharger shall file with the Regional Water Board a report of waste discharge at least 120 days before making any material change or proposed change in the character, location or volume of the discharge.
- l. All existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Regional Water Board as soon as they know or have reason to believe that they have begun or expect to begin to use or manufacture intermediate or final product or byproduct of any toxic pollutant that was not reported on their application.
- m. In the event of any change in name, ownership, or control of these waste disposal facilities, the discharger shall notify this Board of such change and shall notify the succeeding owner or operator of the existence of this Order by letter, copy of which shall be forwarded to the Regional Water Board.
- n. The CWC provides that any person who violates a waste discharge requirement or a provision of the CWC is subject to civil penalties of up to \$5,000 per day, \$10,000 per day, or \$25,000 per day of violation, or when the violation involves the discharge of pollutants, is subject to civil penalties of up to \$10 per gallon per day or \$25 per gallon per day of violation; or some combination thereof, depending on the violation, or upon the combination of violations.
- o. Violation of any of the provisions of the NPDES program or of any of the provisions of this Order may subject the violator to any of the penalties described herein, or any

combination thereof, at the discretion of the prosecuting authority; except that only one kind of penalty may be applied for each kind of violation.

- p. The discharge of any product registered under the Federal Insecticide, Fungicide, and Rodenticide Act to any waste stream which may ultimately be released to waters of the United States, is prohibited unless specifically authorized elsewhere in this permit or another NPDES permit. This requirement is not applicable to products used for lawn and agricultural purposes.
- q. The discharge of any waste resulting from the combustion of toxic or hazardous wastes to any waste stream that ultimately discharges to waters of the United States is prohibited, unless specifically authorized elsewhere in this permit.
- r. The Discharger shall notify the Executive Officer in writing no later than 6 months prior to planned discharge of any chemical, other than the products previously reported to the Executive Officer, which may be toxic to aquatic life. Such notification shall include:
  - 1. Name and general composition of the chemical;
  - 2. Frequency of use;
  - 3. Quantities to be used;
  - 4. Proposed discharge concentrations; and
  - 5. USEPA registration number, if applicable.

## **B. Monitoring and Reporting Program Requirements**

The Discharger shall comply with the MRP No. 6302, and future revisions thereto, in Attachment E of this Order. If there is any conflict between provisions stated in the MRP and the Regional Water Board Standard Provisions, those provisions stated in the MRP shall prevail.

## **C. Special Provisions**

### **1. Reopener Provisions**

- a. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the CWA, and amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.
- b. This Order may be reopened to include effluent limitations for toxic constituents determined to be present in significant amounts in the discharge through a more comprehensive monitoring program included as part of this Order and based on the results of the Reasonable Potential Analysis (RPA).
- c. This Order may be reopened and modified, to incorporate in accordance with the provisions set forth in 40 CFR Parts 122 and 124, to include requirements for the implementation of the watershed management approach or to include new Minimum Levels (MLs).

- d. This Order may be reopened and modified to revise effluent limitations as a result of future Basin Plan Amendments, such as an update of an objective of a Total Maximum Daily Load (TMDL) for Ballona Creek.
- e. This Order may be reopened upon submission by the Discharger of adequate information, as determined by the Regional Water Board, to provide for dilution credits or a mixing zone, as may be appropriate.

## **2. Special Studies, Technical Reports and Additional Monitoring Requirements**

**a. Initial Investigation Toxicity Reduction Evaluation (TRE) Workplan:** The Discharger shall submit to the Regional Water Board an Initial Investigation Toxicity Reduction Evaluation (TRE) workplan (1-2 pages) **within 90 days** of the effective date of this permit. This plan shall describe the steps the permittee intends to follow in the event that toxicity is detected, and should include at a minimum:

1. A description of the investigation and evaluation techniques that will be used to identify potential causes/sources of toxicity, effluent variability, and treatment system efficiency;
2. A description of the facility's method of maximizing in-house treatment efficiency and good housekeeping practices, and a list of all chemicals used in the operation of the facility; and
3. If a toxicity identification evaluation (TIE) is necessary, an indication of the person who would conduct the TIEs (i.e., an in house expert or an outside contractor). Section V of the MRP (Attachment E) provides references for the guidance manuals that should be used for performing TIEs.

## **3. Best Management Practices and Pollution Prevention**

The Discharger shall submit annual reports to describe the progress of studies and or actions undertaken to reduce copper, bromoform, chlorodibromomethane, and dichlorobromomethane in the effluent, and to achieve compliance with the limitations in this Order by the deadline specified above. The Discharger shall evaluate options to achieve compliance with the permit limitations. The Regional Water Board shall receive the first annual progress report at the same time the annual summary report is due, as required in Section X.D of the MRP (Attachment E).

## **4. Compliance Schedules**

### **a. Compliance Plan**

1. The interim limitations stipulated in Section IV.A.2 of this Order for copper, bromoform, chlorodibromomethane, and dichlorobromomethane shall be in effect for a period not to extend beyond September 2, 2009. Thereafter, the Discharger shall comply with the final effluent limitations specified for copper, bromoform, chlorodibromomethane, and dichlorobromomethane in Section IV.A.1 of this Order.
2. The Discharger shall develop and submit by **September 2, 2007**, a compliance plan that will identify the measures that will be taken to reduce the concentrations

of copper, bromoform, chlorodibromomethane and dichlorobromomethane in their discharge. This plan must evaluate options to achieve compliance with the final effluent limitations for copper, bromoform, chlorodibromomethane and dichlorobromomethane within the deadline specified above.

**5. Construction, Operation and Maintenance Specifications**

The Discharger shall at all times properly operate and maintain all facilities and systems installed or used to achieve compliance with this Order.

**6. Special Provisions for Municipal Facilities (POTWs Only)**

Not Applicable.

**7. Other Special Provisions**

Not Applicable.

**VII. COMPLIANCE DETERMINATION**

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

**A. Single Constituent Effluent Limitation.**

If the concentration of the pollutant in the monitoring sample is greater than the effluent limitation and greater than or equal to the reported Minimum Level (ML), then the Discharger is out of compliance.

**B. Effluent Limitation Expressed as a Sum of Several Constituents.**

If the sum of the individual pollutant concentrations is greater than the effluent limitation, then the Discharger is out of compliance. In calculating the sum of the concentrations of a group of pollutants, consider constituents reported as “Not Detected” (ND) or “Detected, but Not Quantified” (DNQ) to have concentrations equal to zero, provided that the applicable ML is used.

**C. Mass-based Effluent Limitation.**

In calculating mass emission rates from the monthly average concentrations, use one half of the method detection limit (MDL) for “Not Detected” (ND) and the estimated concentration for “Detected, but Not Quantified” (DNQ) for the calculation of the monthly average concentration. To be consistent with Section VII.B of this Order, if all pollutants belonging to the same group are reported as ND or DNQ, the sum of the individual pollutant concentrations should be considered as zero for the calculation of the monthly average concentration.

**D. Average Monthly Effluent Limitation (AMEL).**

If the average of daily discharges over a calendar month exceeds the AMEL for a given parameter, an alleged violation will be flagged and 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). The average of daily discharges over the calendar month that

exceeds the AMEL for a parameter will be considered out of compliance for that month only. If only a single sample is taken during the calendar month and the analytical result for that sample exceeds the AMEL, the Discharger will be considered out of compliance for that calendar month. For any one calendar month during which no sample (daily discharge) is taken, no compliance determination can be made for that calendar month.

Since the Jamison discharges intermittently groundwater and cooling tower wastewater, there are no average monthly effluent limitations prescribed in this permit.

**E. Maximum Daily Effluent Limitation (MDEL).**

If a daily discharge exceeds the MDEL for a given parameter, an alleged violation will be flagged and the 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, a violation will be flagged and 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, a violation will be flagged and 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).

## **ATTACHMENT A – DEFINITIONS, ACRONYMS & ABBREVIATIONS**

### **DEFINITIONS**

**Average Monthly Effluent Limitation (AMEL):** the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

**Average Weekly Effluent Limitation (AWEL):** the highest allowable average of daily discharges over a calendar week (Sunday through Saturday), calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.

**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.

**Instantaneous Maximum Effluent Limitation:** the highest allowable value for any single grab sample or aliquot (i.e., each grab sample or aliquot is independently compared to the instantaneous maximum limitation).

**Instantaneous Minimum Effluent Limitation:** the lowest allowable value for any single grab sample or aliquot (i.e., each grab sample or aliquot is independently compared to the instantaneous minimum limitation).

**Maximum Daily Effluent Limitation (MDEL):** the highest allowable daily discharge of a pollutant.

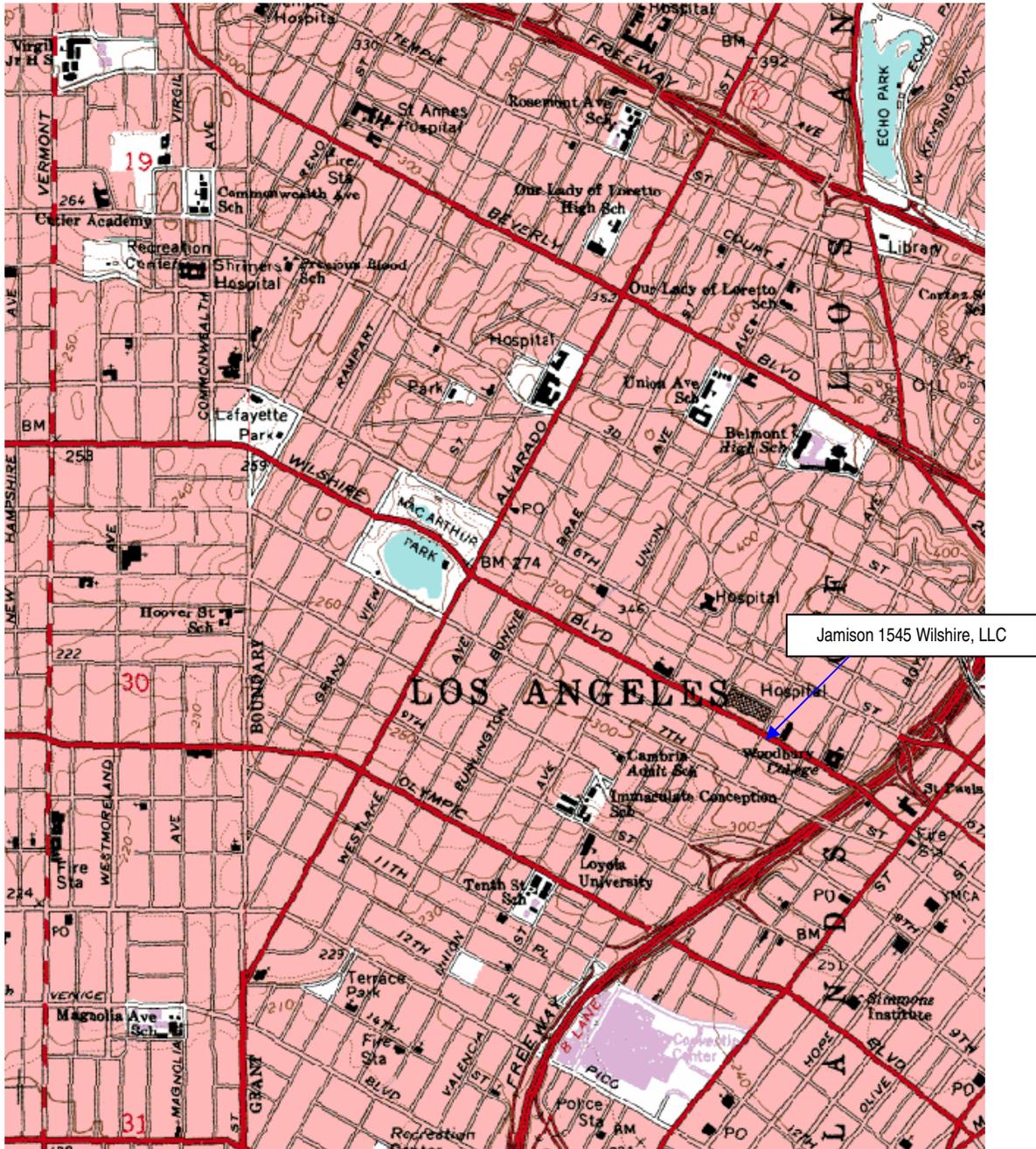
**Six-month Median Effluent Limitation:** the highest allowable moving median of all daily discharges for any 180-day period.

## ACRONYMS & ABBREVIATIONS

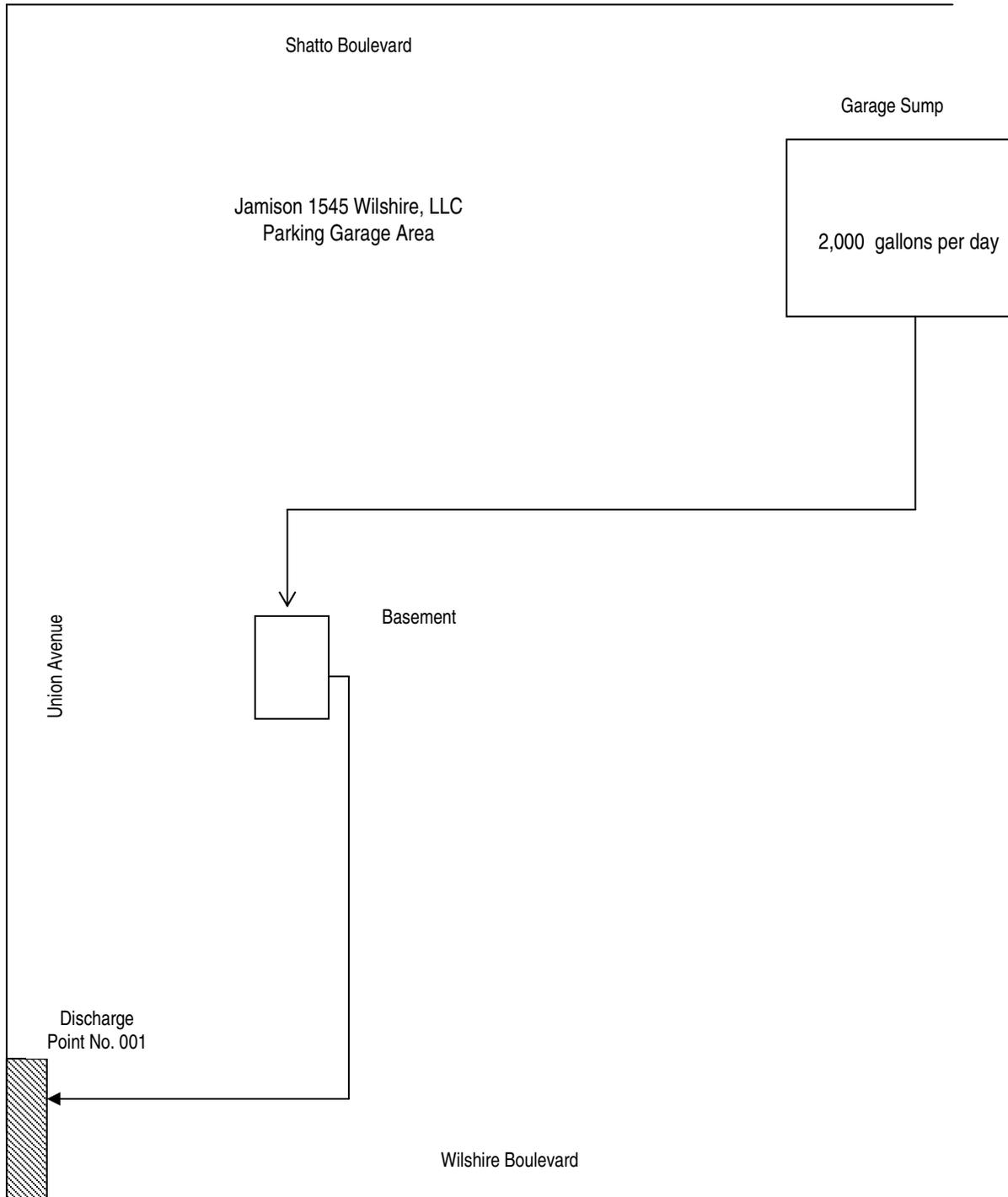
AMEL	Average Monthly Effluent Limitation
B	Background Concentration
BAT	Best Available Technology Economically Achievable
Basin Plan	<i>Water Quality Control Plan for the Coastal Watersheds of Los Angeles and Ventura Counties</i>
BCT	Best Conventional Pollutant Control Technology
BMP	Best Management Practices
BMPP	Best Management Practices Plan
BPJ	Best Professional Judgment
BOD	Biochemical Oxygen Demand
BPT	Best practicable treatment control technology
C	Water Quality Objective
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CTR	California Toxics Rule
CV	Coefficient of Variation
CWA	Clean Water Act
CWC	California Water Code
DMR	Discharge Monitoring Report
DNQ	Detected But Not Quantified
ECA	Effluent Concentration Allowance
ELAP	California Department of Health Services Environmental Laboratory Accreditation Program
ELG	Effluent Limitations, Guidelines and Standards
gpd	gallons per day
IC	Inhibition Coefficient
IC <sub>15</sub>	Concentration at which the organism is 15% inhibited
IC <sub>25</sub>	Concentration at which the organism is 25% inhibited
IC <sub>40</sub>	Concentration at which the organism is 40% inhibited
IC <sub>50</sub>	Concentration at which the organism is 50% inhibited
LA	Load Allocations
LOEC	Lowest Observed Effect Concentration
LTA	Long-Term Average
MDEL	Maximum Daily Effluent Limitation
MDL	Method Detection Limit
MEC	Maximum Effluent Concentration
MGD	Million Gallons Per Day
mg/L	Milligrams per Liter
ML	Minimum Level
MRP	Monitoring and Reporting Program
ND	Not Detected
NOEC	No Observable Effect Concentration
NPDES	National Pollutant Discharge Elimination System
NSPS	New Source Performance Standards
NTR	National Toxics Rule
OAL	Office of Administrative Law
POTW	Publicly-Owned Treatment Works
PMP	Pollutant Minimization Plan
QA	Quality Assurance

QA/QC	Quality Assurance/Quality Control
RPA	Reasonable Potential Analysis
RWQCB	Regional Water Quality Control Board
SCP	Spill Contingency Plan
SIP	State Implementation Policy ( <i>Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California</i> )
SMR	Self Monitoring Reports
SWPPP	Storm Water Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TAC	Test Acceptability Criteria
TDS	Total Dissolved Solids
TIE	Toxicity Identification Evaluation
TMDL	Total Maximum Daily Load
TOC	Total Organic Carbon
TRE	Toxicity Reduction Evaluation
TSD	Technical Support Document
TSS	Total Suspended Solid
TU	Toxicity Unit
USEPA	United States Environmental Protection Agency
WDR	Waste Discharge Requirements
WET	Whole Effluent Toxicity
WLA	Waste Load Allocations
WQBEL	Water Quality-Based Effluent Limitation
µg/L	Micrograms per Liter

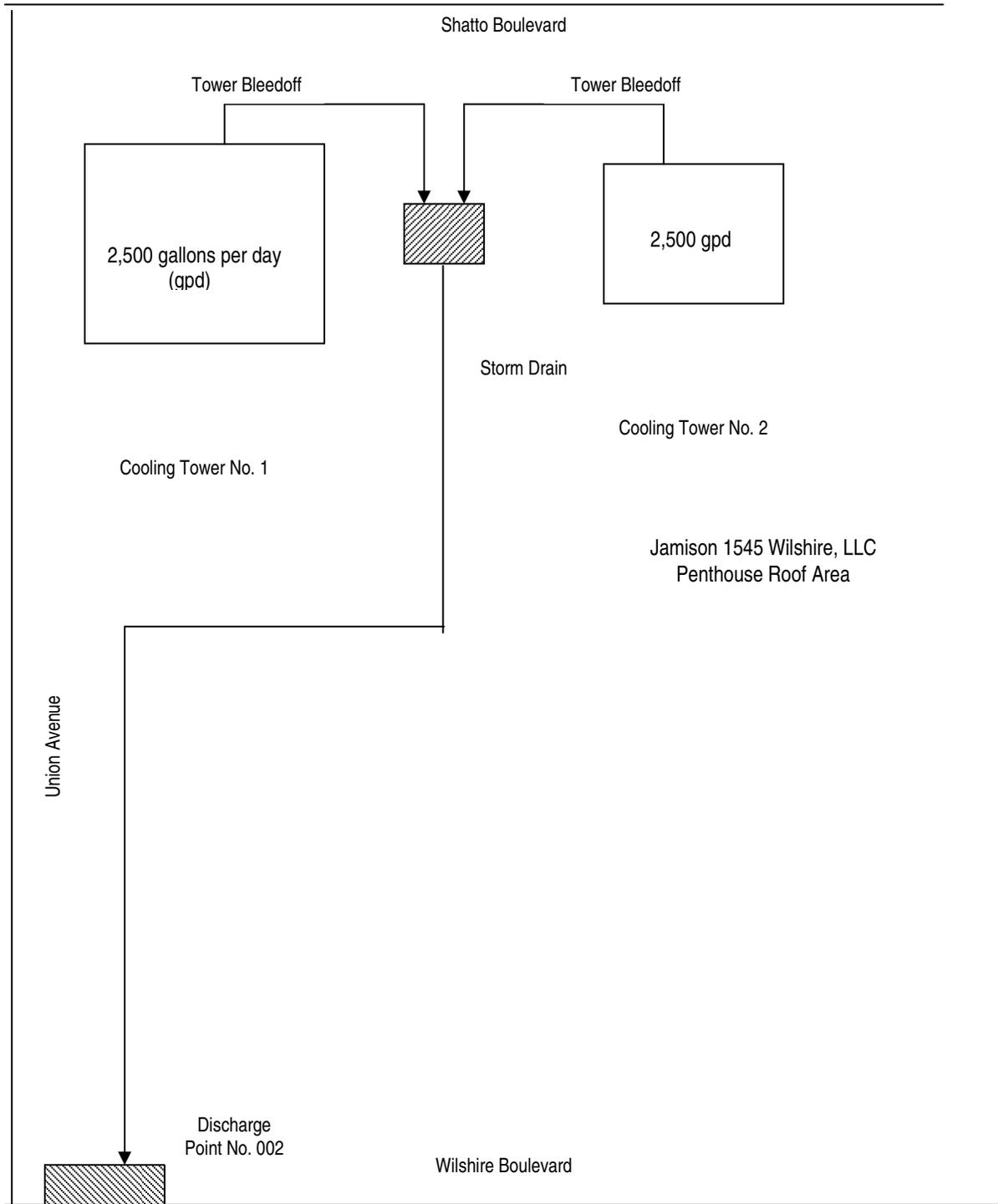
**ATTACHMENT B – TOPOGRAPHIC MAP**



**ATTACHMENT C-1 – FLOW SCHEMATIC DISCHARGE POINT 001**



**ATTACHMENT C-2 – FLOW SCHEMATIC DISCHARGE POINT 002**



## **ATTACHMENT D – FEDERAL STANDARD PROVISIONS**

### **I. STANDARD PROVISIONS – PERMIT COMPLIANCE**

#### **A. Duty to Comply**

1. The Discharger must comply with all of the conditions of this Order. Any noncompliance constitutes a violation of the CWA and the CWC and is grounds for enforcement action, for permit termination, revocation and reissuance, or denial of a permit renewal application [40 CFR §122.41(a)].
2. The Discharger shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act 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 been modified to incorporate the requirement [40 CFR §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 CFR §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 CFR §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 CFR §122.41(e)].

#### **E. Property Rights**

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

## F. Inspection and Entry

The Discharger shall allow the Regional Water Quality Control Board (RWQCB), State Water Resources Control Board (SWRCB), 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 CFR §122.41(i)] [CWC 13383(c)]:

1. 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 CFR §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 CFR §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 CFR §122.41(i)(3)];
4. Sample or monitor, at reasonable times, for the purposes of assuring Order compliance or as otherwise authorized by the CWA or the CWC, any substances or parameters at any location [40 CFR §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 CFR §122.41(m)(1)(i)].
  - b. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities, which causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production [40 CFR §122.41(m)(1)(ii)].
2. Bypass not exceeding limitations – The 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 and I.G.5 below [40 CFR §122.41(m)(2)].
3. Prohibition of bypass – Bypass is prohibited, and the Regional Water Board may take enforcement action against a Discharger for bypass, unless [40 CFR §122.41(m)(4)(i)]:
  - a. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage [40 CFR §122.41(m)(4)(A)];
  - b. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance [40 CFR §122.41(m)(4)(B)]; and

- c. The Discharger submitted notice to the Regional Water Board as required under Standard Provision – Permit Compliance I.G.5 below [40 CFR §122.41(m)(4)(C)].
4. The Regional Water Board may approve an anticipated bypass, after considering its adverse effects, if the Regional Water Board determines that it will meet the three conditions listed in Standard Provisions – Permit Compliance I.G.3 above [40 CFR §122.41(m)(4)(ii)].
5. Notice
  - a. Anticipated bypass. If the 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 CFR §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 [40 CFR §122.41(m)(3)(ii)].

## H. Upset

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

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

### C. Transfers

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

## III. STANDARD PROVISIONS – MONITORING

- A. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity [40 CFR §122.41(j)(1)].
- B. Monitoring results must be conducted according to test procedures under 40 CFR Part 136 or, in the case of sludge use or disposal, approved under 40 CFR Part 136 unless otherwise specified in 40 CFR Part 503 unless other test procedures have been specified in this Order [40 CFR §122.41(j)(4)] [40 CFR §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 40 CFR 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 CFR §122.41(j)(2)].

### B. Records of monitoring information shall include:

1. The date, exact place, and time of sampling or measurements [40 CFR §122.41(j)(3)(i)];
2. The individual(s) who performed the sampling or measurements [40 CFR §122.41(j)(3)(ii)];
3. The date(s) analyses were performed [40 CFR §122.41(j)(3)(iii)];

4. The individual(s) who performed the analyses [40 CFR §122.41(j)(3)(iv)];
5. The analytical techniques or methods used [40 CFR §122.41(j)(3)(v)]; and
6. The results of such analyses [40 CFR §122.41(j)(3)(vi)].

**C. Claims of confidentiality for the following information will be denied [40 CFR §122.7(b)]:**

1. The name and address of any permit applicant or Discharger [40 CFR §122.7(b)(1)]; and
2. Permit applications and attachments, permits and effluent data [40 CFR §122.7(b)(2)].

**V. STANDARD PROVISIONS – REPORTING**

**A. Duty to Provide Information**

The Discharger shall furnish to the Regional Water Board, SWRCB, or USEPA within a reasonable time, any information which the Regional Water Board, SWRCB, 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, SWRCB, or USEPA copies of records required to be kept by this Order [40 CFR §122.41(h)] [CWC 13267].

**B. Signatory and Certification Requirements**

1. All applications, reports, or information submitted to the Regional Water Board, SWRCB, and/or USEPA shall be signed and certified in accordance with paragraph (2.) and (3.) of this provision [40 CFR §122.41(k)].
2. All permit applications shall be signed as follows:
  - a. For a corporation: By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures [40 CFR §122.22(a)(1)];
  - b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively [40 CFR §122.22(a)(2)]; or
  - c. For a municipality, State, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this provision, a principal executive officer of a federal agency includes: (i) the chief executive officer of the agency, or (ii) a

senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of USEPA) [40 CFR §122.22(a)(3)].

3. All reports required by this Order and other information requested by the Regional Water Board, SWRCB, or USEPA shall be signed by a person described in paragraph (b) of this provision, 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 paragraph (2.) of this provision [40 CFR §122.22(b)(1)];
  - b. The authorization specified either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company (a duly authorized representative may thus be either a named individual or any individual occupying a named position) [40 CFR §122.22(b)(2)]; and
  - c. The written authorization is submitted to the Regional Water Board, SWRCB, or USEPA [40 CFR §122.22(b)(3)].
4. If an authorization under paragraph (3.) of this provision 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 paragraph (3.) of this provision must be submitted to the Regional Water Board, SWRCB or USEPA prior to or together with any reports, information, or applications, to be signed by an authorized representative [40 CFR §122.22(c)].
5. Any person signing a document under paragraph (2.) or (3.) of this provision shall make the following certification:

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations” [40 CFR §122.22(d)].

### **C. Monitoring Reports**

1. Monitoring results shall be reported at the intervals specified in the Monitoring and Reporting Program in this Order [40 CFR §122.41(l)(4)].
2. Monitoring results must be reported on a Discharge Monitoring Report (DMR) form or forms provided or specified by the Regional Water Board or SWRCB for reporting results of monitoring of sludge use or disposal practices [40 CFR §122.41(l)(4)(i)].
3. If the Discharger monitors any pollutant more frequently than required by this Order using test procedures approved under 40 CFR Part 136 or, in the case of sludge use or disposal,

approved under 40 CFR Part 136 unless otherwise specified in 40 CFR Part 503, 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 CFR §122.41(l)(4)(ii)].

4. Calculations for all limitations, which require averaging of measurements, shall utilize an arithmetic mean unless otherwise specified in this Order [40 CFR §122.41(l)(4)(iii)].

#### **D. Compliance Schedules**

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

#### **E. Twenty-Four Hour Reporting**

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

#### **F. Planned Changes**

The 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 CFR §122.41(l)(1)]:

1. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR §122.29(b) [40 CFR §122.41(l)(1)(i)]; or
2. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to

effluent limitations in this Order nor to notification requirements under 40 CFR Part 122.42(a)(1) (see Additional Provisions—Notification Levels VII.A.1) [40 CFR §122.41(l)(1)(ii)].

3. The alteration or addition results in a significant change in the 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 previous permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan [40 CFR §122.41(l)(1)(iii)].

#### **G. Anticipated Noncompliance**

The Discharger shall give advance notice to the Regional Water Board or SWRCB of any planned changes in the permitted facility or activity that may result in noncompliance with General Order requirements [40 CFR §122.41(l)(2)].

#### **H. Other Noncompliance**

The Discharger shall report all instances of noncompliance not reported under Standard Provisions – Reporting E.3, E.4, and E.5 at the time monitoring reports are submitted. The reports shall contain the information listed in Standard Provision – Reporting V.E [40 CFR §122.41(l)(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, SWRCB, or USEPA, the Discharger shall promptly submit such facts or information [40 CFR §122.41(l)(8)].

### **VI. STANDARD PROVISIONS – ENFORCEMENT**

- A. The CWA provides that any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed \$25,000 per day for each violation. The CWA provides that any person who negligently violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of \$2,500 to \$25,000 per day of violation, or imprisonment of not more than one (1) year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than \$50,000 per day of violation, or by imprisonment of not more than two (2) years, or both. Any person who knowingly violates such sections, or such conditions or limitations is subject to criminal penalties of \$5,000 to \$50,000 per day of violation, or imprisonment for not more than three (3) years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than \$100,000 per day of violation, or imprisonment of not more than six (6) years, or both. Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he

thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than \$500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the Clean Water Act, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than \$1,000,000 and can be fined up to \$2,000,000 for second or subsequent convictions [40 CFR §122.41(a)(2)] [CWC 13385 and 13387].

- B. Any person may be assessed an administrative penalty by the Regional Water Board for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Administrative penalties for Class I violations are not to exceed \$10,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed \$25,000. Penalties for Class II violations are not to exceed \$10,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed \$125,000 [40 CFR §122.41(a)(3)].
- C. The CWA provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than 2 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years, or both [40 CFR §122.41(j)(5)].
- D. The CWA provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this Order, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six months per violation, or by both [40 CFR §122.41(k)(2)].

## VII. ADDITIONAL PROVISIONS – NOTIFICATION LEVELS

### A. Non-Municipal Facilities

Existing manufacturing, commercial, mining, and silvicultural dischargers shall notify the Regional Water Board as soon as they know or have reason to believe [40 CFR §122.42(a)]:

1. That any activity has occurred or will occur that would result in the discharge, on a routine or frequent basis, of any toxic pollutant that is not limited in this Order, if that discharge will exceed the highest of the following "notification levels" [40 CFR §122.42(a)(1)]:
  - a. 100 micrograms per liter (µg/L) [40 CFR §122.42(a)(1)(i)];
  - b. 200 µg/L for acrolein and acrylonitrile; 500 µg/L for 2,4-dinitrophenol and 2-methyl-4,6-dinitrophenol; and 1 milligram per liter (mg/L) for antimony [40 CFR §122.42(a)(1)(ii)];
  - c. Five (5) times the maximum concentration value reported for that pollutant in the Report of Waste Discharge [40 CFR §122.42(a)(1)(iii)]; or

- d. The level established by the Regional Water Board in accordance with 40 CFR §122.44(f) [40 CFR §122.42(a)(1)(iv)].
2. That any activity has occurred or will occur that would result in the discharge, on a non-routine or infrequent basis, of any toxic pollutant that is not limited in this Order, if that discharge will exceed the highest of the following "notification levels" [40 CFR §122.42(a)(2)]:
    - a. 500 micrograms per liter (µg/L) [40 CFR §122.42(a)(2)(i)];
    - b. 1 milligram per liter (mg/L) for antimony [40 CFR §122.42(a)(2)(ii)];
    - c. Ten (10) times the maximum concentration value reported for that pollutant in the Report of Waste Discharge [40 CFR §122.42(a)(2)(iii)]; or
    - d. The level established by the Regional Water Board in accordance with 40 CFR §122.44(f) [40 CFR §122.42(a)(2)(iv)].

**B. Publicly-Owned Treatment Works (POTWs)**

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

1. Any new introduction of pollutants into the POTW from an indirect discharger that would be subject to Sections 301 or 306 of the CWA if it were directly discharging those pollutants [40 CFR §122.42(b)(1)]; and
2. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of adoption of the Order [40 CFR §122.42(b)(2)].

Adequate notice shall include information on the quality and quantity of effluent introduced into the POTW as well as any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW [40 CFR §122.42(b)(3)].

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## **ATTACHMENT E – MONITORING AND REPORTING PROGRAM (MRP) NO. 6302**

The CFR at 40 CFR §122.48 requires that all NPDES permits specify monitoring and reporting requirements. Sections 13267 and 13383 of the CWC also authorize the 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. An effluent sampling station shall be established for Discharge Point 001 and Discharge Point 002 and shall be located where representative samples of that effluent can be obtained.
- B. Effluent samples shall be taken downstream of any addition to treatment works and prior to mixing with the receiving waters.
- C. This Regional Water Board shall be notified in writing of any change in the sampling stations once established or in the methods for determining the quantities of pollutants in the individual waste streams.
- D. Pollutants shall be analyzed using the analytical methods described in 40 CFR §§136.3, 136.4, and 136.5 (revised May 14, 1999); or, where no methods are specified for a given pollutant, by methods approved by this Regional Water Board or the State Water Board. Laboratories analyzing effluent samples and receiving water samples shall be certified by the California Department of Health Services ELAP or approved by the Executive Officer and must include QA/QC data in their reports. A copy of the laboratory certification shall be provided each time a new certification and/or renewal of the certification is obtained from ELAP.
- E. For any analyses performed for which no procedure is specified in the USEPA guidelines or in the MRP, the constituent or parameter analyzed and the method or procedure used must be specified in the monitoring report.
- F. Each monitoring report must affirm in writing that “all analyses were conducted at a laboratory certified for such analyses by the Department of Health Services or approved by the Executive Officer and in accordance with current USEPA guideline procedures or as specified in this Monitoring and Reporting Program”.
- G. The monitoring reports shall specify the analytical method used, the MDL, and the ML for each pollutant. For the purpose of reporting compliance with numerical limitations, performance goals, and receiving water limitations, analytical data shall be reported by one of the following methods, as appropriate:
  - 1. An actual numerical value for sample results greater than or equal to the ML; or
  - 2. "DNQ" if results are greater than or equal to the laboratory's MDL but less than the ML; or
  - 3. "ND" for sample results less than the laboratory's MDL with the MDL indicated for the analytical method used.

Analytical data reported as “less than” for the purpose of reporting compliance with permit limitations shall be the same or lower than the permit limit(s) established for the given parameter.

Current MLs (Attachment G) are those published by the State Water Resources Control Board in the *Policy for the Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California*, March 2, 2000.

- H. Where possible, the MLs employed for effluent analyses shall be lower than the permit limitations established for a given parameter. If the ML value is not below the effluent limitation, then the lowest ML value and its associated analytical method shall be selected for compliance purposes. At least once a year, the Discharger shall submit a list of the analytical methods employed for each test and associated laboratory QA/QC procedures.

The Regional Water Board, in consultation with the State Water Board Quality Assurance Program, shall establish a ML that is not contained in Attachment G to be included in the Discharger's permit in any of the following situations:

1. When the pollutant under consideration is not included in Attachment G;
  2. When the Discharger and Regional Water Board agree to include in the permit a test method that is more sensitive than that specified in 40 CFR Part 136 (revised May 14, 1999);
  3. When the Discharger agrees to use an ML that is lower than that listed in Attachment G;
  4. When the Discharger demonstrates that the calibration standard matrix is sufficiently different from that used to establish the ML in Attachment G, and proposes an appropriate ML for their matrix; or,
  5. When the Discharger uses a method whose quantification practices are not consistent with the definition of an ML. Examples of such methods are the USEPA-approved method 1613 for dioxins and furans, method 1624 for volatile organic substances, and method 1625 for semi-volatile organic substances. In such cases, the Discharger, the Regional Water Board, and the State Water Board shall agree on a lowest quantifiable limit and that limit will substitute for the ML for reporting and compliance determination purposes.
- I. Water/wastewater samples must be analyzed within allowable holding time limits as specified in 40 CFR §136.3. All QA/QC items must be run on the same dates the samples were actually analyzed, and the results shall be reported in the Regional Water Board format, when it becomes available, and submitted with the laboratory reports. Proper chain of custody procedures must be followed, and a copy of the chain of custody shall be submitted with the report.
- J. All analyses shall be accompanied by the chain of custody, including but not limited to data and time of sampling, sample identification, and name of person who performed sampling, date of analysis, name of person who performed analysis, QA/QC data, method detection limits, analytical methods, copy of laboratory certification, and a perjury statement executed by the person responsible for the laboratory.
- K. The Discharger shall calibrate and perform maintenance procedures on all monitoring instruments and to insure accuracy of measurements, or shall insure that both equipment activities will be conducted.
- L. The Discharger shall have, and implement, an acceptable written quality assurance (QA) plan for laboratory analyses. The annual monitoring report required in Section X.D of this MRP shall

also summarize the QA activities for the previous year. Duplicate chemical analyses must be conducted on a minimum of ten percent (10%) of the samples, or at least one sample per sampling period, whichever is greater. A similar frequency shall be maintained for analyzing spiked samples.

- M. When requested by the Regional Water Board or USEPA, the Discharger will participate in the NPDES discharge monitoring report QA performance study. The Discharger must have a success rate equal to or greater than 80%.
- N. For parameters that both monthly average and daily maximum limitations are specified and the monitoring frequency is less than four times a month, the following shall apply. If an analytical result is greater than the monthly average limitation, the Discharger shall collect four additional samples at approximately equal intervals during the month, until compliance with the monthly average limitation has been demonstrated. All five analytical results shall be reported in the monitoring report for that month, or 45 days after results for the additional samples were received, whichever is later. In the event of noncompliance with a monthly average effluent limitation, the sampling frequency for that constituent shall be increased to weekly and shall continue at this level until compliance with the monthly average effluent limitation has been demonstrated. The Discharger shall provide for the approval of the Executive Officer a program to ensure future compliance with the monthly average limitation.
- O. In the event wastes are transported to a different disposal site during the report period, the following shall be reported in the monitoring report:
  - 1. Types of wastes and quantity of each type;
  - 2. Name and address for each hauler of wastes (or method of transport if other than by hauling); and
  - 3. Location of the final point(s) of disposal for each type of waste.

If no wastes are transported off-site during the reporting period, a statement to that effect shall be submitted.
- P. Each monitoring report shall state whether or not there was any change in the discharge as described in the Order during the reporting period.

**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
001	M - 001	Shall be located at a discharge point, (i.e., Discharge Point 001, Latitude 34° 03' 09" N Longitude 118° 15' 53" W) prior to entry into a storm drain located at Union Avenue.
002	M - 002	Shall be located at a discharge point, (i.e., Discharge Point 002, Latitude 34° 03' 09" N Longitude 118° 15' 53" W) prior to entry into a storm drain located at Wilshire Boulevard.

### III. INFLUENT MONITORING REQUIREMENTS

Not Applicable.

### IV. EFFLUENT MONITORING REQUIREMENTS

#### A. Monitoring Location M-001

1. The Discharger shall monitor groundwater seepage from the Facility at M-001 as follows:

Parameters	Units	Type of Sample	Minimum Frequency	Required Analytical Test Method
Flow	gal/day		1/Month	1
<b>Conventional Pollutants</b>				
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C)	mg/L	Grab	1 / semiannual period	1
	lbs/day <sup>2</sup>	Calculated	1 / semiannual period	
Oil and Grease	mg/L	Grab	1 / semiannual period	1
	lbs/day <sup>2</sup>	Calculated	1 / semiannual period	
PH	s.u.	Grab	1 / Quarter	1
Total Suspended Solids (TSS)	mg/L	Grab	1 / Quarter	1
	lbs/day <sup>2</sup>	Calculated	1 / Quarter	
<b>Priority Pollutants</b>				
Copper, Total Recoverable	µg/L	Grab	1 / Quarter	1
	lbs/day <sup>2</sup>	Calculated	1 / Quarter	
Lead, Total Recoverable	µg/L	Grab	1 / Quarter	1
	lbs/day <sup>2</sup>	Calculated	1 / Quarter	
Selenium	µg/L	Grab	1 / Quarter	1
	lbs/day <sup>2</sup>	Calculated	1 / Quarter	
Zinc, Total Recoverable	µg/L	Grab	1 / Quarter	1
	lbs/day <sup>2</sup>	Calculated	1 / Quarter	
Remaining CTR Priority Pollutants ( <i>Attachment H</i> ) <sup>3</sup>	µg/L	Grab	1 / Year	1
<b>Non-Conventional Pollutants</b>				
Acute Toxicity <sup>4</sup>	% survival	Grab	1 / Year	1
Methyl Tert-butyl Ether (MTBE)	µg/L	Grab	1 / semiannual period	1
	lbs/day <sup>2</sup>	Calculated	1 / semiannual period	
Settleable Solids	ml/L	Grab	1 / semiannual period	1
Sulfide, Total	mg/L	Grab	1 / semiannual period	1
	lbs/day <sup>2</sup>	Calculated	1 / semiannual period	
Temperature	°F	Grab	1 / semiannual period	1
Turbidity	NTU	Grab	1 / semiannual period	1

<sup>1</sup> Pollutants shall be analyzed using the analytical methods described in 40 CFR Part 136; for priority pollutants the methods must meet the lowest minimum levels (MLs) specified in Attachment 4 of the SIP (and included as Attachment G of this Order), where no methods are specified for a given pollutant, by methods approved by this Regional Water Board or the State Water Board.

<sup>2</sup> The mass emission (in lbs/day) for the discharge shall be calculated and reported using the reported concentration and the actual flow rate measured at the time of the discharge, using the formula:

$$\text{lbs/day} = 8.34 \times C \times Q$$

where:  
 C = actual measured concentration for a pollutant, in mg/L  
 Q = actual discharge flow rate in MGD

<sup>3</sup> Priority pollutants to be monitored are listed in Attachment H of this Order. Sampling for priority pollutant monitoring of the effluent and receiving water shall occur on the same day.

<sup>4</sup> See Section V of this Monitoring and Reporting Program regarding toxicity testing requirements.

## B. Monitoring Location M-002

1. The Discharger shall monitor wastewater from cooling tower units at M-002 as follows:

Parameters	Units	Type of Sample	Minimum Frequency	Required Analytical Test Method
Flow	gal/day		1/Month	1
<b>Conventional Pollutants</b>				
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C)	mg/L	Grab	1 / semiannual period	1
	lbs/day <sup>2</sup>	Calculated	1 / semiannual period	
Oil and Grease	mg/L	Grab	1 / Quarter	1
	lbs/day <sup>2</sup>	Calculated	1 / Quarter	
PH	s.u.	Grab	1 / Quarter	1
Total Suspended Solids (TSS)	mg/L	Grab	1 / Quarter	1
	lbs/day <sup>2</sup>	Calculated	1 / Quarter	
<b>Priority Pollutants</b>				
Copper, Total Recoverable	µg/L	Grab	1 / Quarter	1
	lbs/day <sup>2</sup>	Calculated	1 / Quarter	
Chromium VI, Total Recoverable	µg/L	Grab	1 / Year	1
	lbs/day <sup>2</sup>	Calculated	1 / Year	
Lead, Total Recoverable	µg/L	Grab	1 / Quarter	1
	lbs/day <sup>2</sup>	Calculated	1 / Quarter	
Selenium	µg/L	Grab	1 / Quarter	1
	lbs/day <sup>2</sup>	Calculated	1 / Quarter	
Bromoform	µg/L	Grab	1 / Quarter	1
	lbs/day <sup>2</sup>	Calculated	1 / Quarter	
Chlorodibromomethane	µg/L	Grab	1 / Quarter	1
	lbs/day <sup>2</sup>	Calculated	1 / Quarter	
Dichlorobromomethane	µg/L	Grab	1 / Quarter	1
	lbs/day <sup>2</sup>	Calculated	1 / Quarter	
Remaining CTR Priority Pollutants ( <i>Attachment H</i> ) <sup>3</sup>	µg/L	Grab	1 / Year	1
<b>Non-Conventional Pollutants</b>				
Acute Toxicity <sup>4</sup>	% survival	Grab	1 / Year	1
Settleable Solids	ml/L	Grab	1 / semiannual period	1

Parameters	Units	Type of Sample	Minimum Frequency	Required Analytical Test Method
Sulfide, Total	mg/L	Grab	1 / semiannual period	1
	lbs/day <sup>2</sup>	Calculated	1 / semiannual period	
Temperature	°F	Grab	1 / semiannual period	1
Turbidity	NTU	Grab	1 / semiannual period	1

<sup>1</sup> Pollutants shall be analyzed using the analytical methods described in 40 CFR Part 136; for priority pollutants the methods must meet the lowest minimum levels (MLs) specified in Attachment 4 of the SIP (and included as Attachment G of this Order), where no methods are specified for a given pollutant, by methods approved by this Regional Water Board or the State Water Board.

<sup>2</sup> The mass emission (in lbs/day) for the discharge shall be calculated and reported using the reported concentration and the actual flow rate measured at the time of the discharge, using the formula:

$$\text{lbs/day} = 8.34 \times C \times Q$$

where:

C = actual measured concentration for a pollutant, in mg/L

Q = actual discharge flow rate in MGD

<sup>3</sup> Priority pollutants to be monitored are listed in Attachment H of this Order. Sampling for priority pollutant monitoring of the effluent and receiving water shall occur on the same day.

<sup>4</sup> See Section V of this Monitoring and Reporting Program regarding acute toxicity testing requirements.

## V. WHOLE EFFLUENT TOXICITY TESTING REQUIREMENTS

### A. Definition of Toxicity

#### Acute Toxicity

Acute toxicity is a measure of primarily lethal effects that occur over a 96-hour period. Acute toxicity shall be measured in percent survival measured in undiluted (100%) effluent.

- a. The average survival in the undiluted effluent for any three (3) consecutive 96-hour static or continuous flow bioassay tests shall be at least 90% survival, and
- b. No single test shall produce less than 70% survival.

### B. Acute Toxicity Effluent Monitoring Program

1. The Discharger shall conduct acute toxicity tests on effluent samples (e.g., grab samples) by methods specified in 40 CFR Part 136 which cites USEPA's *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms*, Fifth Edition, October 2002, USEPA, Office of Water, Washington D.C. (EPA/821-R-02-012) or a more recent edition to ensure compliance in 100 % effluent.
2. The fathead minnow, *Pimephales promelas*, shall be used as the test species for fresh water discharges and the topsmelt, *Atherinops affinis*, shall be used as the test species for

brackish effluent. The method for topmelt is found in USEPA's *Short-term Method for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms*, Third Edition, October 2002 (EPA/821-R-02-014).

3. In lieu of conducting the standard acute toxicity testing with the fathead minnow, the Discharger may elect to report the results or endpoint from the first 48 hours of the chronic toxicity test as the results of the acute toxicity test.
4. Effluent samples shall be collected after all treatment processes and before discharge to the receiving water.

### **C. Quality Assurance**

1. Concurrent testing with a reference toxicant shall be conducted. Reference toxicant tests shall be conducted using the same test conditions as the effluent toxicity tests (e.g., same test duration, etc).
2. If either the reference toxicant test or effluent test does not meet all test acceptability criteria (TAC) as specified in the test methods manuals (EPA/600/4-91/002 and EPA/821-R-02-014), then the Discharger must re-sample and re-test at the earliest time possible.
3. Control and dilution water should be receiving water or laboratory water, as appropriate, as described in the manual. If the dilution water used is different from the culture water, a second control using culture water shall be used.

### **D. Accelerated Monitoring and Initial Investigation TRE Trigger**

1. Special Provision VI.C.2.b of the Order requires the Discharger to develop and submit for approval an Initial Investigation TRE Workplan.
2. If the results of a toxicity test exceed the acute toxicity effluent limitations trigger (as defined below):

#### **Acute Toxicity**

- a. The average survival in the undiluted effluent for any three (3) consecutive 96-hour static or continuous flow bioassay tests shall be at least 90% survival, and
- b. No single test shall produce less than 70% survival.

then, the Discharger shall begin the investigation and evaluation as specified in the Dischargers's Initial Investigation TRE Workplan and begin accelerated monitoring by conducting six additional tests, approximately every 2 weeks, over a 12-week period. The samples shall be collected and the tests initiated no less than 7 days apart. The Discharger shall ensure that they receive results of a failing acute toxicity test within 24 hours of the close of the test and the additional tests shall begin within 3 business days of the receipt of the result.

3. If implementation of the Initial Investigation TRE Workplan indicates the source of toxicity (e.g., a temporary plant upset, etc.), then the Discharger may discontinue the Initial Investigation Toxicity Reduction Evaluation and resume routine testing frequency.

4. The first step in the Initial Investigation TRE Workplan for downstream receiving water toxicity can be a toxicity test protocol designed to determine if the effluent from Discharge Points 001 and 002 causes or contributes to the measured downstream acute toxicity. If this first step TRE testing shows that the Discharge Points 001 and 002 effluent does not cause or contribute to downstream acute toxicity, using USEPA's *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater Organisms*, Fifth Edition, October 2002 USEPA, Office of Water, Washington DC (EPA/821/R-02-012), then a report on this testing shall be submitted to the Regional Water Board and the Initial Investigation TRE will be considered to be completed. Routine testing in accordance with the MRP shall be continued thereafter.

#### **E. TRE/TIE Trigger**

1. If the accelerated testing shows consistent toxicity as defined below:

Acute Toxicity:

1. If the results of any two of the six accelerated tests are less than 90% survival, or
2. If the initial test and any of the additional six acute toxicity bioassay tests result in less than 70% survival.

then, the Discharger shall immediately implement the Toxicity Reduction Evaluation (TRE) as described below.

#### **F. Steps in TRE and TIE Procedures**

1. Following a TRE trigger, the Discharger shall initiate a TRE in accordance with the facility's Initial Investigation TRE workplan. At a minimum, the Discharger shall use USEPA manuals EPA/600/2-88/070 (industrial) or EPA/833B-99/002 (municipal) as guidance. The Discharger shall expeditiously develop a more detailed TRE workplan for submittal to the Executive Officer within 30 days of the trigger, which will include, but not be limited to:
  - a. Further actions to investigate and identify the cause of toxicity;
  - b. Actions the Discharger will take to mitigate the impact of the discharge and prevent the recurrence of toxicity;
  - c. Standards the Discharger will apply to consider the TRE complete and to return to normal sampling frequency; and,
  - d. A schedule for these actions.
2. The following is a stepwise approach in conducting the TRE:
  - a. Step 1 - Basic data collection. Data collected for the accelerated monitoring requirements may be used to conduct the TRE;
  - b. Step 2 - Evaluates optimization of the treatment system operation, facility housekeeping, and the selection and use of in-plant process chemicals;

- c. Step 3 – If Steps 1 and 2 are unsuccessful, Step 3 implements a TIE by employing all reasonable efforts and using currently available TIE methodologies. The Discharger shall use the EPA acute manuals, EPA/600/6-91/005F (Phase I)/EPA/600/R-96-054 (for marine), EPA/600/R-92/080 (Phase II), and EPA-600/R-92/081 (Phase III) as guidance. The objective of the TIE is to identify the substance or combination of substances causing the observed toxicity;
- d. Step 4 – Assuming successful identification or characterization of the toxicant(s), Step 4 evaluates final effluent treatment options;
- e. Step 5 – Evaluates in-plant treatment options; and,
- f. Step 6 – Consists of confirmation once a toxicity control method has been implemented.

Many recommended TRE elements parallel source control, pollution prevention, and storm water control program best management practices (BMPs). To prevent duplication of efforts, evidence of implementation of these control measures may be sufficient to comply with TRE requirements. By requiring the first steps of a TRE to be accelerated testing and review of the facility's TRE workplan, a TRE may be ended in its early stages. All reasonable steps shall be taken to reduce toxicity to the required level. The TRE may be ended at any stage if monitoring indicates there is no longer toxicity (or six consecutive acute toxicity test results are greater than 90% survival).

3. If a TRE/TIE is initiated prior to completion of the accelerated testing schedule required by this permit, then the accelerated testing schedule may be terminated, or used as necessary in performing the TRE/TIE, as determined by the Executive Officer.
4. Toxicity tests conducted as part of a TRE/TIE may also be used for compliance determination, if appropriate.
5. The Board recognizes that toxicity may be episodic and identification of causes of and reduction of sources of toxicity may not be successful in all cases. Consideration of enforcement action by the Board will be based in part on the Discharger's actions and efforts to identify and control or reduce sources of consistent toxicity.

## **G. Reporting**

1. The Discharger shall submit a full report of the toxicity test results, including any accelerated testing conducted during the month as required by this permit. Test results shall be reported as % survival for acute toxicity test results with the self monitoring reports (SMR) for the month in which the test is conducted.
2. If an initial investigation indicates the source of toxicity and accelerated testing is unnecessary, then those results also shall be submitted with the SMR for the period in which the investigation occurred.
  - a. The full report shall be submitted on or before the end of the month in which the SMR is submitted.
  - b. The full report shall consist of (1) the results; (2) the dates of sample collection and initiation of each toxicity test; (3) the acute toxicity average limit.

3. Test results for toxicity tests also shall be reported according to the appropriate manual chapter on Report Preparation and shall be attached to the SMR. Routine reporting shall include, at a minimum, as applicable, for each test:
  - a. Sample date(s);
  - b. Test initiation date;
  - c. Test species;
  - d. End point values for each dilution (e.g., number of young, growth rate, percent survival);
  - e. NOEC value(s) in percent effluent;
  - f. IC<sub>15</sub>, IC<sub>25</sub>, IC<sub>40</sub> and IC<sub>50</sub> values in percent effluent;
  - g. Mean percent mortality (+standard deviation) after 96 hours in 100% effluent (if applicable);
  - h. NOEC and LOEC values for reference toxicant test(s);
  - i. IC<sub>25</sub> value for reference toxicant test(s);
  - j. Any applicable charts; and
  - k. Available water quality measurements for each test (e.g., pH, D.O., temperature, conductivity, hardness, salinity, ammonia).
  
4. The Discharger shall provide a compliance summary, which includes a summary table of toxicity data from all samples collected during that year.

The Discharger shall notify by telephone or electronically, this Regional Water Board of any toxicity exceedance of the limit within 24 hours of receipt of the results followed by a written report within 14 calendar days of receipt of the results. The verbal or electronic notification shall include the exceedance and the plan the Discharger has taken or will take to investigate and correct the cause(s) of toxicity. It may also include a status report on any actions required by the permit, with a schedule for actions not yet completed. If no actions have been taken, the reasons shall be given.

## **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 R-001**

Not Applicable

### **B. Visual Monitoring of Upstream and Downstream Receiving Water Sampling Points**

Not Applicable

## **IX. OTHER MONITORING REQUIREMENTS**

### **A. Storm Water Monitoring**

1. **Visual Observation.** The Discharger shall make visual observations of all discharge locations on at least one storm event per month that produces a significant storm water discharge to observe the presence of floating and suspended materials, oil and grease, discoloration, turbidity, and odor. A “significant storm water discharge” is a continuous discharge of storm water for a minimum of one hour, or the intermittent discharge of storm water for a minimum of 3 hours in a 12-hour period.

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

### **B. Self Monitoring Reports (SMRs)**

1. At any time during the term of this permit, the State or Regional Water Board may notify the Discharger to electronically submit self-monitoring reports. Until such notification is given, the Discharger shall submit self-monitoring reports in accordance with the requirements described below.
2. The Discharger shall submit quarterly Self Monitoring Reports including the results of all required monitoring using USEPA-approved test methods or other test methods specified in this Order. Quarterly reports shall be due on May 1, August 1, November 1, and February 1

following each calendar quarter. Annual reports shall be due on February 1 following each calendar year.

- 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
X / month	<First day of calendar month following permit effective date or on permit effective date if that date is first day of the month>	1 <sup>st</sup> day of calendar month through last day of calendar month	First day of second calendar month following month of sampling
X/ quarter	First day of quarter following permit effective date or on permit effective date if that date is the first day of the quarter.	January 1 – March 31 April 1 – June 30 July 1 – September 30 October 1 – December 31	January-March: May 1 April-June: August 1 July-September: November 1 October – December: February 1
X / semi-annual period	<Closest of January 1 or July 1 following (or on) permit effective date>	January 1 through June 30 July 1 through December 31	August 1 February 1
X / year	<January 1 following (or on) permit effective date>	January 1 through December 31	February 1

- The Discharger shall report with each sample result the applicable ML and the current MDL, as determined by the procedure in 40 CFR Part 136.
- 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. Where applicable, the Discharger shall include results of receiving water observations.
- Each monitoring report shall state whether or not there was any change in the discharge as described in the Order during the reporting period.
- 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.
- 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:

California Regional Water Quality Control Board  
 Los Angeles Region  
 320 W. 4<sup>th</sup> Street, Suite 200  
 Los Angeles, CA 90013

**C. Discharge Monitoring Reports (DMRs)**

Not Applicable.

#### D. Other Reports

1. Annual Summary Report. The Discharger shall submit an annual report, containing a discussion of the previous year's effluent and receiving water monitoring data, as well as graphical and tabular summaries of the data. In addition, the discharger shall discuss the compliance record and the corrective actions taken or planned which may be needed to bring the discharge into full compliance with the waste discharge requirements. The data shall be submitted to the Regional Water Board on hard copy and on a 3 ½ " computer diskette. Submitted data must be IBM compatible, preferably using EXCEL software. This annual report is to be received by the Regional Water Board by March 1 of each year following the calendar year of data collection. The Regional Water Board and the State Water Resources Control Board (State Water Board) are developing a database compliance monitoring management system that may require the Discharger to submit the monitoring and annual summary reports electronically when it becomes fully operational.
2. The Discharger shall submit to the Regional Water Board, together with the first monitoring report required by this permit, a list of all chemicals and proprietary additives which could affect this waste discharge, including quantities of each. Any subsequent changes in types and/or quantities shall be reported promptly.
3. This Regional Water Board requires the Discharger to file with the Regional Water Board, **within 90 days** after the effective date of this Order, a technical report on his preventive (failsafe) and contingency (cleanup) plans for controlling accidental discharges, and for minimizing the effect of such events. The technical report should:
  - a. Identify the possible sources of accidental loss, untreated waste bypass, and contaminated drainage. Loading and storage areas, power outage, waste treatment unit outage, and failure of process equipment, tanks and pipes should be considered.
  - b. Evaluate the effectiveness of present facilities and procedures and state when they become operational.
  - c. Describe facilities and procedures needed for effective preventive and contingency plans.
  - d. Predict the effectiveness of the proposed facilities and procedures and provide an implementation schedule contingent interim and final dates when they will be constructed, implemented, or operational.

This Regional Water Board, after review of the technical report, may establish conditions which it deems necessary to control accidental discharges and to minimize the effects of such events. Such conditions may be incorporated as part of this Order, upon notice to the Discharger.

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**ATTACHMENT F – FACT SHEET**

As described in Section II of this Order, this Fact Sheet includes the specific legal requirements and detailed technical rationale that serve as the basis for the requirements of this Order.

**I. PERMIT INFORMATION**

The following table summarizes administrative information related to the facility.

**Table F-1  
 Facility Information**

<b>WDID</b>	4B191101001
<b>Discharger</b>	Jamison 1545 Wilshire, LLC (Former Adams Plaza)
<b>Name of Facility</b>	Jamison 1545 Wilshire, LLC
<b>Facility Address</b>	1545 Wilshire Boulevard
	Los Angeles, CA 90018
	Los Angeles County
<b>Facility Contact, Title and Phone</b>	Regina Cho, Property Manager (213) 484-6518
<b>Authorized Person to Sign and Submit Reports</b>	Regina Cho, Property Manager (213) 484-6518
<b>Mailing Address</b>	1541 Wilshire Boulevard, Suite 506, Los Angeles, CA 90017
<b>Billing Address</b>	Same as above
<b>Type of Facility</b>	Commercial Office Building
<b>Threat to Water Quality</b>	Category 3
<b>Complexity</b>	Category C
<b>Pretreatment Program</b>	No
<b>Reclamation Requirements</b>	Not Applicable
<b>Facility Permitted Flow (001)</b>	0.002 million gallons per day (MGD)
<b>Facility Permitted Flow (002)</b>	0.005 million gallons per day (MGD)
<b>Facility Design Flow</b>	Not Available
<b>Watershed</b>	Inland
<b>Receiving Water</b>	Ballona Creek, above the Estuary
<b>Receiving Water Type</b>	Freshwater

- A. Jamison 1545 Wilshire, LLC (hereinafter Jamison or Discharger) is the new owner and operator of the former Adams Plaza (hereinafter Facility), a commercial, multi-story office building near downtown Los Angeles. The office space consists of approximately 83,000 square feet of rentable area. The Facility changed ownership on April 7, 2004, from Adams Plaza to Jamison 1545 Wilshire, LLC.
- B. The Discharger discharges groundwater seepage and wastewater (i.e., cooling tower bleedoff, occasional drainage and washdown wastes) from cooling tower units to Ballona Creek, above the Estuary, a water of the United States. The discharge is currently regulated under Order No. 97-101 adopted on July 21, 1997, and expired on June 10, 2002.
- C. Jamison 1545 Wilshire, LLC filed a report of waste discharge (ROWD) and applied for renewal of its Waste Discharge Requirements (WDRs) and a National Pollutants Discharge

Elimination System (NPDES) permit on December 14, 2005. This Order is the reissuance of the WDRs and a NPDES permit for discharges from Jamison 1545 Wilshire, LLC. A NPDES permit compliance evaluation inspection (CEI) was conducted on November 7, 2005, to visit the site and observe operations, verify conditions, and collect additional data to develop permit limitations and conditions.

## **II. FACILITY DESCRIPTION**

The Facility is a multi-story, commercial office building located at 1545 Wilshire Boulevard, Los Angeles, California. The Facility consists of office spaces of approximately 83,000 square feet of rentable area.

### **A. Description of Wastewater Treatment or Controls**

Jamison intermittently discharges up to 2,000 gallons per day (gpd) of groundwater seepage and up to 5,000 gpd of wastewater (i.e., cooling tower bleed-off, and occasional drainage and washdown wastes) from cooling tower units.

Groundwater seepage is collected in a sump located in the building's basement, adjacent to the parking garage. The discharge of groundwater seepage occurs when the groundwater reaches a certain level in the sump and the sump pump automatically turns on. The groundwater discharge is not treated. Groundwater seepage is pumped from the sump up to the ceiling through a 1-inch diameter PVC pipe. The PVC pipe runs along the ceiling that is connected to a larger pipe running along the basement ceiling. The groundwater is directed to a storm drain (Discharge Point 001) located at Union Avenue, and eventually combines with the wastewater from the cooling tower into a storm drain located at Wilshire Boulevard. The combined wastes flow into Ballona Creek, a water of the United States, above the Estuary. The discharge of groundwater is intermittent and occurs during winter and heavy rainfall in spring.

Cooling tower water is obtained from the City of Los Angeles general water supply system. The cooling towers are blown down automatically based on conductivity. Blowdown from the two cooling towers is combined and passed through a fabric sock-type filter prior to discharging directly to the roof drain, which directs cooling tower water to the storm drain (Discharge Point 002) located at Wilshire Boulevard then flows into Ballona Creek, above the Estuary, a water of the United States. The cooling tower water is treated with a biodegradable material to control corrosion and scaling of the tubes of the cooling system.

The Regional Water Board and the U.S. EPA have classified the Jamison 1545 Wilshire, LLC facility as a minor discharge.

### **B. Discharge Points and Receiving Waters**

Jamison 1545 Wilshire, LLC discharges ground water seepage intermittently through Discharge Point 001 (Latitude 34°03'09", Longitude 118°15'53") to a storm drain located at Union Avenue, and cooling tower bleed-off, and occasional drainage and washdown wastes from cooling tower units through Discharge Point 002 (Latitude 34°03'09", Longitude 118°15'53") to a storm drain located at Wilshire Boulevard. The groundwater seepage combines with the wastewater from the cooling tower into a storm drain located at Wilshire Boulevard, then flow into Ballona Creek, a water of the United States, above the Estuary.

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

Effluent limitations contained in the existing Order for discharges from Discharge Point 001 are monitored in the sump located in building’s parking garage (i.e., M-001), prior to entry into a storm drain located at Union Avenue.

Effluent limitations contained in the existing Order for discharges from Discharge Point 002 are monitored after the flow meter and fabric filter, at the roof drain (i.e., M-002), prior to entry into a storm drain located at Wilshire Boulevard.

The Discharger submitted quarterly monitoring and annual reports for the period from October 1996 through August 2004 for Discharge Points 001 and 002. These data and existing effluent limitations are summarized below:

**Table F-2  
 Summary of Existing Effluent Limitations and SMR Data for  
 Discharge Point 001**

Parameter (units)	Discharge Point 001		
	Daily Maximum Effluent Limitations	Monthly Average Effluent Limitations	Monitoring Data October 1996 – August 2004
			Highest Daily Discharge
<b>Conventional Pollutants</b>			
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) (mg/L)	30	20	<1.0
BOD (lbs/day)	0.50 <sup>1</sup>	0.33	NR
Oil and Grease (mg/L)	15	10	<5.0
Oil and Grease (lbs/day)	0.25 <sup>1</sup>	0.17	NR
pH (s.u.)	6.0 – 9.0	--	7.8
Total Suspended Solids (TSS) (mg/L)	150	50	63.0
TSS (lbs/day)	2.5 <sup>1</sup>	0.83	NR
<b>Non-Conventional Pollutants</b>			
Methyl Tert-butyl Ether (MTBE) (µg/L)	35	--	<1.0
Settable Solids (ml/L)	0.3	0.1	<0.1
Sulfides, Total (mg/L)	1.0	--	<0.04
Temperature (° F)	100	--	81
Turbidity (NTU)	150	50	8.5

**Note:** NR = Not Reported

“--” = Not Applicable

<sup>1</sup> Based on the maximum daily flow rate of 0.002 MGD of storm water runoff.

**Table F-3  
 Summary of Existing Effluent Limitations and SMR Data for  
 Discharge Point 002**

Parameter (units)	Discharge Point 002		
	Maximum Daily Effluent Limitations	Monthly Average Effluent Limitations	Monitoring Data October 1996 – August 2004
			Highest Daily Discharge
<b>Conventional Pollutants</b>			
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) (mg/L)	30	20	12
BOD (lbs/day)	1.3 <sup>1</sup>	0.83 <sup>1</sup>	NR
Oil and Grease (mg/L)	15	10	13
Oil and Grease (lbs/day)	0.63 <sup>1</sup>	0.42 <sup>1</sup>	NR
pH (s.u.)	6.0 – 9.0	--	9.0
Total Suspended Solids (TSS) (mg/L)	150	50	200
TSS (lbs/day)	6.3 <sup>1</sup>	2.1 <sup>1</sup>	NR
<b>Non-Conventional Pollutants</b>			
Methyl Tert-butyl Ether (MTBE) (µg/L)	--	--	<1.0 <sup>2</sup>
Settable Solids (ml/L)	0.3	0.1	0.1
Sulfides, Total (mg/L)	--	--	--
Temperature (° F)	100	--	82
Turbidity (NTU)	150	50	30

**Note:** NR = Not Reported

"--" = Not Applicable

<sup>1</sup> Based on the maximum flow rate of 0.005 mgd of wastewater runoff.

<sup>2</sup> Two results for Discharge Point 002 (both <1.0 µg/L) were submitted for methyl tertiary butyl ether (MTBE) on September 10, 2001 and January 29, 2002 even though there is no required effluent monitoring for this pollutant at Discharge Point 002. Results for MTBE were not provided for the samples collected on December 17, 2002.

The existing permit also required Jamison 1545 Wilshire, LLC to monitor Discharge Point 001 for CTR priority pollutants once every 5 years for which no effluent limitations were developed. The Discharger only collected samples for benzene, ethylbenzene and toluene on February 12, 1999. The results indicated <0.3 µg/L. No other priority pollutant sampling was conducted on Discharge Point 001.

The existing permit does not require Jamison 1545 Wilshire, LLC to monitor Discharge Point 002 for CTR priority pollutants. However, the Discharger sampled for CTR priority pollutants in the 3<sup>rd</sup> Quarter 2001 (September 10, 2001), 1<sup>st</sup> Quarter 2002 (January 29, 2002) and 4<sup>th</sup> Quarter 2002 (December 17, 2002) for Discharge Point 002.

The Discharger characterized the groundwater seepage from Discharge Point 001 and wastewater from Discharge Point 002 in the permit renewal application submitted to the Regional Water Board on December 14, 2005. The following pollutants were reported:

**Table F-4  
 Applicable Monitoring Results  
 Discharge Points 001 and 002**

Parameter (units)	Reported Maximum Daily Value: Form 2E for Discharge Point 001	Reported Maximum Daily Value: Form 2E for Discharge Point 002
<b>Conventional Pollutants</b>		
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) (mg/L)	ND	ND
Fecal Coliform (CFU/100ml)	ND	ND
Oil and Grease (mg/L)	ND	ND
PH (s.u.)	7.8	8.9
Total Suspended Solids (TSS) (mg/L)	63.0	4.0
<b>Non-Conventional Pollutants</b>		
Ammonia Nitrogen, Unionized (as N) (mg/L)	0.373	ND
Carbon, Total Organic (TOC)	ND	1.4
Chemical Oxygen Demand (COD)	7.80	ND
Chlorine, Total Residual (mg/L)	0.939	ND
Flow (gpd)	2,000	5,000

"ND" = Not Detected

**D. Compliance Summary**

Data submitted to the Regional Water Board for Discharge Point 001 and Discharge Point 002 indicated that the Discharger has exceeded existing permit limitations as outlined in Tables F-5 and F-6.

**Table F-5  
 Summary of Compliance  
 Discharge Point 001**

Date	Monitoring Period	Violation Type	Pollutant	Reported Value	Permit Limitation	Units
12/6/2005	4th Quarter, 2005	Monthly Average	Total Suspended Solids (TSS)	63.0	150	mg/L

The available effluent data indicate that the Discharger exceeded effluent limitations contained in Order No. 97-101 for TSS at Discharge Point 001. The TSS average monthly effluent limitation of 50 mg/L was exceeded once in the garage sump effluent reported on December 13, 2005, at a concentration of 63.0 mg/L. A review of available effluent data indicates that the Discharger has complied with all other existing effluent limitations at Discharge Point 001.

**Table F-6  
 Summary of Compliance  
 Discharge Point 002**

<b>Date</b>	<b>Monitoring Period</b>	<b>Violation Type</b>	<b>Pollutant</b>	<b>Reported Value</b>	<b>Permit Limitation</b>	<b>Units</b>
3/07/2003	1 <sup>st</sup> Quarter, 2003	Monthly Average	Oil and Grease	13	10	mg/L
2/26/1998	1 <sup>st</sup> Quarter, 1998	Maximum Daily	Total Suspended Solids	200	150	mg/L

The available effluent data indicate that the Discharger exceeded effluent limitations contained in Order No. 97-101 for oil and grease and TSS at Discharge Point 002.

In addition, Jamison was delinquent in submitting the monitoring reports for the 4<sup>th</sup> Quarter 2001, 1<sup>st</sup> Quarter 2002, 2<sup>nd</sup> Quarter 2002 and 3<sup>rd</sup> Quarter 2002.

The violations mentioned above are being evaluated for appropriate enforcement actions.

**E. Planned Changes**

Not Applicable.

**III. APPLICABLE PLANS, POLICIES, AND REGULATIONS**

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

**A. Legal Authorities**

The Order is issued pursuant to Section 402 of the CWA and implementing regulations adopted by the USEPA and Chapter 5.5, Division 7 of CWC. It shall serve as a NPDES permit for point source discharges from this facility to surface waters. The Order also serves as WDR pursuant to Article 4, Chapter 4 of the CWC for discharges that are not subject to regulation under CWA Section 402.

**B. California Environmental Quality Act (CEQA)**

This action to adopt an NPDES permit is exempt from the provisions of the California Environmental Quality Act (Public Resources Code Section 21100, et seq.) in accordance with Section 13389 of the CWC.

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

- 1. Water Quality Control Plans.** The Regional Water Board adopted a Water Quality Control Plan for the Coastal Watersheds of Los Angeles and Ventura Counties (hereinafter Basin Plan) 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. In addition, State Water Board

Resolution No. 88-63 requires that, with certain exceptions, the Regional Water Board assign the municipal and domestic supply use to water bodies that do not have beneficial uses listed in the Basin Plan. Beneficial uses applicable to Ballona Creek, above the Estuary are as follows:

**Table F-7  
 Summary of Beneficial Uses  
 Discharge Point 001 and Discharge Point 002**

Discharge Point	Receiving Water Name	Beneficial Use(s)
001 and 002	Ballona Creek, above the Estuary	<u>Existing:</u> Non-contact water recreation (REC-2); and wildlife habitat (WILD).  <u>Potential:</u> Municipal and domestic water supply (MUN) <sup>1</sup> , water contact recreation (REC-1); and warm freshwater habitat (WARM).

<sup>1</sup> The Basin Plan identifies municipal and domestic water supplies as a potential use. The potential use is noted as follows: "Some designations may be considered for exemptions at a later date."

2. **Ammonia Basin Plan Amendment.** The 1994 Basin Plan provided water quality objectives for ammonia to protect aquatic life, in Tables 3-1 through Tables 3-4. However, those ammonia objectives were revised on April 25, 2002, by the Regional Board with the adoption of Resolution No. 2002-011, *Amendment to the Water Quality Control Plan for the Los Angeles Region to Update the Ammonia Objectives for Inland Surface Waters (Including Enclosed Bays, Estuaries and Wetlands) with Beneficial Use Designations for Protection of Aquatic Life*. The Ammonia Basin Plan Amendment became effective on July 15, 2003.
3. **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 inland surface waters.
4. **National Toxics Rule (NTR) and California Toxics Rule (CTR).** USEPA adopted the NTR on December 22, 1992, which was amended on May 4, 1995 and November 9, 1999, and the CTR on May 18, 2000, which was amended on February 13, 2001. These rules include water quality criteria for priority pollutants and are applicable to this discharge.
5. **State Implementation Policy.** On March 2, 2000, 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 Boards in their basin plans, with the exception of the provision on alternate test procedures for individual discharges that have been approved by the USEPA Regional Administrator. The alternate test procedures provision was effective on May 22, 2000. The SIP became effective on May 18, 2000. The SIP includes procedures for determining

the need for and calculating WQBELs, and requires Dischargers to submit data sufficient to do so. The State Water Board adopted amendments to the SIP on February 24, 2005, was approved by the Office of Administrative Law (OAL) on May 31, 2005, and the USEPA approved it on July 13, 2005. The CTR's Compliance Schedule provisions sunseted on May 17, 2005. After this date, the provisions of the SIP allow for Compliance Schedules not to exceed five years from permit issuance or May 17, 2010, whichever is sooner.

- 6. Anti-degradation Policy.** Section 131.12 of 40 CFR requires that State water quality standards include an anti-degradation policy consistent with the federal policy. The State Water Board established California's anti-degradation policy in State Water Board Resolution No. 68-16, which incorporates the requirements of the federal anti-degradation policy. State Water Board Resolution No. 68-16 requires that existing quality of waters be maintained unless degradation is justified based on specific findings. As discussed in detail in the Fact Sheet, Attachment F, the permitted discharge is consistent with the anti-degradation provision of 40 CFR §131.12 and State Water Board Resolution No. 68-16.
- 7. Anti-Backsliding Requirements.** Sections 402(o)(2) and 303(d)(4) of the CWA and 40 CFR § 122.44(l) prohibit backsliding in NPDES permits. These anti-backsliding provisions require effluent limitations in a reissued permit to be as stringent as those in the previous permit, with some exceptions where limitations may be relaxed. All effluent limitations in the Order are at least as stringent as the effluent limitations in the existing Order.
- 8. Monitoring and Reporting Requirements.** Section 122.48 of 40 CFR requires all NPDES permits to specify requirements for recording and reporting monitoring results. Sections 13267 and 13383 of the CWC authorize the Regional Water Boards to require technical and monitoring reports. The MRP establishes monitoring and reporting requirements to implement federal and State requirements. This MRP is provided in Attachment E.
- 9. Alaska Rule.** On March 30, 2000, USEPA revised its regulation that specifies when new and revised State and Tribal (WQS) become effective for (CWA) purposes (40 CFR §131.21, 65 FR 24641, April 27, 2000). Under USEPA's new regulation (also known as the Alaska rule), new and revised standards submitted to USEPA after May 30, 2000, must be approved 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.

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

The USEPA has approved the State's 303(d) list of impaired water bodies on July 25, 2003. Certain receiving waters in Los Angeles County watersheds do not fully support beneficial uses and therefore, have been classified as impaired on the 2002 303(d) list and have been scheduled for TMDL development. For all 303(d)-listed water bodies and pollutants, the Regional Water Board plans to develop and adopt TMDLs that will specify WLAs for point sources and load allocations (LAs) for non-point sources, as appropriate.

Ballona Creek is located in the Ballona Creek Watershed. The 2002 State Board's California 303(d) List classifies the Ballona Creek as impaired. The pollutants of concern include cadmium (sediment), Chem A (tissue), chlordane (tissue), copper (dissolved), DDT (tissue), dieldrin (tissue), enteric viruses, high coliform count, lead (dissolved), PCBs (tissue), pH, sediment toxicity, selenium (total), silver (sediment), toxicity and zinc (dissolved). To date, only trash and metals (i.e., copper, lead, selenium, and zinc) TMDLs have been approved by USEPA for this segment water.

### **Ballona Creek Trash TMDL:**

On September 9, 2001, the Regional Water Board adopted Resolution No. 2001-014, *Amendment to the Basin Plan for the Los Angeles Region to Incorporate the Ballona Creek Trash TMDL (Trash TMDL)*. The Trash TMDL was approved by the State Board on February 19, 2002, and the Office of Administrative Law (OAL) on July 18, 2002. On August 1, 2002, USEPA approved the Trash TMDL and became effective on August 28, 2002. However, on March 4, 2004, the Regional Water Board adopted Resolution No 2004-023, Revision to the Ballona Creek Trash TMDL. The revised Trash TMDL was approved by the State Board on September 30, 2004, and the OAL on February 8, 2005, and became effective on August 11, 2005. There is no effluent limitation based on Trash TMDL is prescribed in this Order.

### **Ballona Creek Metals TMDL:**

On July 7, 2005, the Regional Water Board adopted Resolution No. 2005-007, *Amendment to the Basin Plan for the Los Angeles Region to Incorporate the Ballona Creek Metals TMDL (Metals TMDL)*. The Metals TMDL was approved by the State Board on October 20, 2005, and the OAL on December 22, 2005. On December 22, 2005, USEPA approved the Metal TMDL and became effective on January 11, 2006. The Ballona Creek Metals TMDL specifies the numeric water quality targets (NWQT) and waste load allocations (WLAs) for copper, lead, selenium, and zinc for all point source discharges to Ballona Creek and Sepulveda Canyon Channel. The NWQT and WLAs for the specified metals (except selenium) are expressed as total recoverables. Jamison discharges wastes to Ballona Creek. Therefore, effluent limits for the specified metals are prescribed in this Order and are based on the WLAs.

## **IV. RATIONALE FOR EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS**

The CWA requires point source discharges to control the amount of conventional, non-conventional, and toxic pollutants that are discharged into the waters of the United States. The control of the discharge of pollutants is established through effluent limitations and other requirements in NPDES permits. There are two principal bases for effluent limitations: 40 CFR Section 122.44(a) requires that permits include applicable technology-based limitations and standards; and 40 CFR 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 numeric water quality objectives have not been established, 40 CFR §122.44(d) specifies that WQBELs may be established using the following three options to protect water quality: 1) 40 CFR § 122.44(d) specifies that WQBELs may be established using USEPA criteria guidance under CWA section 304(a); 2) proposed State criteria or a State policy interpreting narrative criteria supplemented with other relevant information may be used; or 3) an indicator parameter may be established.

The CWA requires that any discharge by a point source must be regulated through a NPDES permit. Further, the NPDES regulations require regulation of any pollutant that (1) causes; (2) has the reasonable potential to cause; or (3) contributes to the exceedance of a receiving water quality criteria or objective.

### **Pollutants of Concern**

Effluent limitations for Discharge Point 001 in the existing permit were established for BOD<sub>5</sub>, oil and grease, pH, TSS, MTBE, settleable solids, sulfides, temperature, and turbidity. BOD<sub>5</sub>, oil

and grease, TSS, settleable solids, and turbidity are commonly used to characterize water quality. Therefore, these constituents will be considered as pollutants of concern. MTBE is a gasoline additive and spills from underground storage tanks can contaminate groundwater. Therefore, because groundwater has the potential to contain MTBE any groundwater seepage discharged through Discharge Point 001 has the potential to contain MTBE.

Further, heavy metals and volatile organics are common constituents in parking lot runoff. Therefore, groundwater seepage from the parking lot area could contain these pollutants and be discharged through Discharge Point 001.

Chromium is commonly present in treatments added to cooling towers to prevent algal growth and could be present in the discharge. Therefore, chromium is a pollutant of concern. The CTR contains water quality criteria for hexavalent and trivalent chromium; therefore, monitoring for these forms of chromium are required in the Monitoring and Reporting Program (MRP).

Discharges of cooling tower wastewater (i.e., bleed-off, occasional drainage and washdown wastes) and groundwater seepage may also carry pollutants that may contribute to acute toxicity. Therefore, toxicity, an indicator of the presence of toxic pollutants, is also considered a pollutant of concern.

Generally, mass-based effluent limitations ensure that proper treatment, and not dilution, is employed to comply with the final effluent concentration limitations. Section 122.45(f)(1) of 40 CFR requires that all permit limitations, standards or prohibitions be expressed in terms of mass units except under the following conditions: 1) for pH, temperature, radiation or other pollutants that cannot appropriately be expressed by mass limitations; 2) when applicable standards or limitations are expressed in terms of other units of measure; or 3) if in establishing technology-based permit limitation on a case-by-case basis limitation based on mass are infeasible because the mass or pollutant cannot be related to a measure of production. The limitations, however, must ensure that dilution will not be used as a substitute for treatment.

Pursuant to 40 CFR §122.45(d), permit limitations for continuous discharges shall be expressed, unless impracticable, as both average monthly effluent limitations (AMELs) and maximum daily effluent limitations (MDELs). The discharge of groundwater seepage and cooling water wastewater at the Facility is not continuous as defined in 40 CFR §122.2. Therefore, only maximum daily effluent limitations (MDELs) are established for ground water seepage and cooling water wastewater.

#### **A. Discharge Prohibitions**

Discharge prohibitions included in the Order are based on waste discharge prohibitions contained in the Basin Plan that apply to the entire Los Angeles Region, and discharge prohibitions as specified from the CWC, and previous permit provisions, and are consistent with the requirements set for other discharges regulated by NPDES permits to Ballona Creek, above the Estuary.

## **B. Technology-Based Effluent Limitations**

### **1. Scope and Authority**

The CWA requires that technology-based effluent limitations be established based on several levels of controls:

- a. Best practicable treatment control technology (BPT) is based on the average of the best performance by plants within an industrial category or subcategory. BPT standards apply to toxic, conventional and non-conventional pollutants.
- b. Best available technology economically achievable (BAT) represents the best existing performance of treatment technologies that are economically achievable within an industrial point source category. BAT standards apply to toxic and non-conventional pollutants.
- c. Best conventional pollutant control technology (BCT) is a standard for the control from existing industrial point sources of conventional pollutants including BOD<sub>5</sub>, fecal coliform, oil and grease, pH and TSS. The BCT standard is established after considering the “cost reasonableness” of the relationship between the cost of attaining a reduction in effluent discharge and the benefits that would result, and also the cost effectiveness of additional industrial treatment beyond BPT.
- d. New source performance standards (NSPS) that represent the best available demonstrated control technology standards. The intent of NSPS guidelines is to set limitations that represent state-of-the-art treatment technology for new sources.

The CWA requires USEPA to develop effluent limitations, guidelines and standards (ELGs) representing application of BPT, BCT, BAT and NSPS. Section 402(a)(1) of the CWA and 40 CFR §125.3 of the NPDES regulations authorize the use of best professional judgment (BPJ) to derive technology-based effluent limitations on a case-by-case basis where ELGs are not available for certain industrial categories and/or pollutants of concern. Where BPJ is used, the permit writer must consider specific factors outlined in 40 CFR §125.3.

### **2. Technology-Based Effluent Limitations**

The technology-based requirements in the Order are based on case-by-case numeric limitations developed in the existing Order using best professional judgment (BPJ). The technology-based effluent limitations carried over from the existing Order include limitations for BOD and oil and grease, TSS, MTBE, settleable solids, sulfides and turbidity (Table F-6). These limitations are similar to those established for similar facilities within the Los Angeles Region and continue to be appropriate for this facility.

**Table F-8**  
**Summary of Technology-Based Effluent Limitations**  
**Discharge Point 001 and Discharge Point 002**

Parameters (units)	Discharge Point 001	Discharge Point 002	
	Maximum Daily Effluent Limitations (MDELs)	Maximum Daily Effluent Limitations (MDELs)	Monthly Average Effluent Limitations (AMELs)
<b>Conventional Pollutants</b>			
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C) (mg/L)	30	30	--
BOD (lbs/day)	0.50 <sup>1</sup>	1.25 <sup>2</sup>	--
Oil and Grease (mg/L)	15	15	--
Oil and Grease (lbs/day)	0.25 <sup>1</sup>	0.62 <sup>2</sup>	--
Total Suspended Solids (TSS) (mg/L)	75	75	--
TSS (lbs/day)	1.25 <sup>1</sup>	3.12 <sup>2</sup>	--
<b>Non-Conventional Pollutants</b>			
Methyl Tert-butyl Ether (MTBE) (µg/L)	5 <sup>3</sup>	--	--
Settable Solids (ml/L)	0.3	0.3	--
Sulfides, Total (mg/L)	1.0	--	--
Turbidity (NTU)	75	75	--

"--" = Not Applicable

<sup>1</sup> Based on the maximum flow rate of 0.002 MGD of groundwater seepage.

<sup>2</sup> Based on the maximum flow rate of 0.005 MGD of cooling tower wastewater.

<sup>3</sup> The existing permit prescribed effluent limitations for methyl tertiary butyl ether (MTBE) of 35 µg/L. Assembly Bill 592 (October 8, 1997) requires the State of California, Department of Health Services (DHS) to adopt primary and secondary drinking water standards for MTBE. In January 1999, the DHS adopted 5 µg/L as the secondary standard for MTBE based on taste and odor threshold. Therefore, the Order includes an effluent limitation for MTBE of 5 µg/L.

## **C. Water Quality-Based Effluent Limitations (WQBELs)**

### **1. Scope and Authority**

As specified in 40 CFR §122.44(d)(1)(i), permits are required to include WQBELs for pollutants (including toxicity) that are or may be discharged at levels that cause, have reasonable potential to cause, or contribute to an excursion above any state water quality standard. 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 water quality criteria contained in the CTR and NTR. The procedures for determining reasonable potential for discharges from the Jamison 1545 Wilshire, LLC facility, and if necessary for calculating WQBELs, are contained in the SIP.

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

As noted in Section II of the Limitations and Discharge Requirements, the Regional Water Board adopted a Basin Plan that designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for all waters addressed through the Basin Plan. The beneficial uses applicable to Ballona Creek are summarized in Section III.C.1 of this Fact Sheet. The Basin Plan includes both narrative and numeric water quality objectives applicable to the receiving water.

Priority pollutant water quality criteria in the CTR are applicable to Ballona Creek. The CTR contains both saltwater and freshwater criteria. The Regional Water Board determined that because the discharge is above the Estuary, freshwater CTR criteria are applicable and are used to prescribe the effluent limitations in the Order to protect the beneficial uses of Ballona Creek, a water of the United States, above the Estuary in the vicinity of the discharge. The RPA was conducted using a pH of 6.8 s.u., and assumed a hardness value of 390 mg/L for CaCO<sub>3</sub>. The lowest reported hardness measured in the effluent, 390 mg/L, was used because the discharge is to a storm drain; the effluent makes up the immediate receiving water.

The following table summarizes the applicable water quality criteria/objective for priority pollutants reported in detectable concentrations in the effluent from Discharge Point 002. These criteria were used in conducting a reasonable potential analysis (RPA) in the Order. There is insufficient data available for priority pollutants for Discharge Point 001 to conduct RPA.

The existing Order requires the Discharger to monitor Discharge Point 001 for an abbreviated list of priority pollutants<sup>2</sup> once every 5 years for which no effluent limitations were developed. From October 1996 to August 2004, the Discharger collected one sample on February 12, 1999 for benzene, ethylbenzene, and toluene from Discharge Point 001. The concentration for all three pollutants was <0.3 µg/L; no other priority pollutant sampling was collected for Discharge Point 001.

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<sup>2</sup> Arsenic, cadmium, copper, lead, mercury, selenium, zinc, benzene, carbon tetrachloride, 1,1-dichloroethane, 1,2-dichloroethane, 1,1-dichloroethylene, ethylbenzene, tetrachloroethylene, toluene, trichloroethylene, vinyl chloride and 1,4-dichlorobenzene. The Discharger also monitors for the non-CTR pollutants chromium, phenols and xylenes).

The Discharger provided three sets of sampling data for priority pollutants for Discharge Point 002<sup>1</sup>, with the exception of three sets of sampling data for methyl chloride and 2-methyl-4,6-dinitrophenol. A RPA was conducted on this data. Copper, zinc, bromoform, chlorodibromomethane, dichlorobromomethane and chloroform were all detected in the effluent. All pollutants demonstrated reasonable potential to exceed water quality criteria for Discharge Point 002 except for chloroform and zinc.

**Table F-9  
 Summary of Water Quality Criteria for Priority Pollutants  
 Discharge Point 002**

CTR No.	Parameters	Selected Criteria	CTR/NTR Water Quality Criteria					
			Freshwater		Saltwater		Human Health for Consumption of:	
			Acute	Chronic	Acute	Chronic	Water & Organisms	Organisms only
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
6	Copper, Total Recoverable	29.85	50.47	29.85	N/A	1300	N/A	
13	Zinc, Total Recoverable	379.6	379.6	379.6		--		
20	Bromoform	4.3	--	--		4.3		
23	Chlorodibromomethane	0.41	--	--		0.41		
26	Chloroform	--	--	--		--		
27	Dichlorobromomethane	0.56	--	--		0.56		

"- -" = Water quality criteria not applicable.

N/A = Not applicable, receiving water is not saltwater and has municipal and domestic supply (MUN) as an existing beneficial use.

### 3. Determining the Need for WQBELs

In accordance with Section 1.3 of the SIP, the Regional Water Board conducts a RPA for each priority pollutant with an applicable criterion or objective to determine if a WQBEL is required in the permit. The Regional Water Board analyzes effluent and receiving water data and identifies the maximum observed effluent concentration (MEC) and maximum background concentration (B) in the receiving water for each constituent. To determine reasonable potential, the MEC and the B are then compared with the applicable water quality objectives (C) outlined in the CTR, NTR, as well as the Basin Plan. For all pollutants that have a reasonable potential to cause or contribute to an excursion above a state water quality standard, numeric WQBELs are required. The RPA considers water quality criteria from the CTR and NTR, and when applicable, water quality objectives specified in the Basin Plan. To conduct the RPA, the Regional Water Board identifies the MEC and maximum background concentration in the receiving water for each constituent, based on data provided by the Discharger.

<sup>1</sup> Priority pollutant sampling data were provided for all pollutants except methyl chloride and 2-methyl-4,6-dinitrophenol.

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 an RPA:

- 1) Trigger 1 – If the MEC is greater than or equal to the CTR water quality criteria or applicable objective (C), a limit is needed.
- 2) Trigger 2 – If the background water quality (B) > C, and the pollutant is detected in the effluent, a limit is needed.
- 3) Trigger 3 – If other related information such as CWA 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 and complete the RPA. If data are not sufficient, the Discharger is required to collect the appropriate data for the Regional Water Board to conduct the RPA. Upon review of the data, and if the Regional Water Board determines that WQBELs are needed to protect the beneficial uses, the permit will be reopened for appropriate modification.

An RPA was conducted using quarterly effluent monitoring and annual reports for the period from October 1996 through August 2004 for Discharge Point 002. For two pollutants (methyl chloride and 2-methyl-4,6-dinitrophenol), less than three sets of data were available for CTR pollutants and therefore, the RPA was not conducted on these pollutants; the RPA was conducted on all other priority pollutants for Discharge Point 002.

Based on the RPA, copper, bromoform, chlorodibromomethane and dichlorobromomethane demonstrated reasonable potential to exceed water quality objectives.

**Table F-10**  
**Summary of Reasonable Potential Analysis for CTR Constituents**  
**Discharge Point 002**

Parameters	Maximum Observed Effluent Concentration (in µg/L)	Maximum Pollutant Background Concentration (in µg/L)	Most Stringent Applicable CTR Criterion (in µg/L)	Reasonable Potential?	Basis for Reasonable Potential Determination
Copper, Total Recoverable	230	NA	29.85	Yes	Trigger 1
Zinc, Total Recoverable	200	NA	379.6	No	MEC < C
Bromoform	6.2	NA	4.3	Yes	Trigger 1
Chlorodibromomethane	15	NA	0.41	Yes	Trigger 1
Chloroform	18	NA	NA	No	No Criteria
Dichlorobromomethane	11	NA	0.56	Yes	Trigger 1

NA = Not Available

**Note:** Values for the Most Stringent Applicable CTR Criterion are derived from 40 CFR § 131.38(b)(1), Criteria for Priority Toxic Pollutants in the State of California.

A summary of the RPA for Discharge Point 002 is provided in Attachment I.

There is insufficient data available to perform an RPA for Discharge Point 001. Thus, a RPA was conducted on those pollutants for which data were available for Discharge Point 002. In accordance with the SIP, the Regional Water Board is requiring the Discharger to monitor the effluent and receiving water for all CTR priority pollutants to collect data for evaluating reasonable potential for Discharge Point 001. The monitoring requirements are discussed in greater detail in the associated MRP.

#### 4. WQBEL Calculations

As specified in 40 CFR § 122.44(d)(1)(i), permits are required to include WQBELs for toxic pollutants (including toxicity) that are or may be discharged at levels which cause, have reasonable potential to cause, or contribute to an excursion above any state water quality standard. The process for determining reasonable potential and calculating WQBELs when necessary is intended to protect the designated uses for 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 USEPA water quality criteria contained in the CTR and NTR). The specific procedures for determining reasonable potential and, if necessary, for calculating WQBELs are contained in the SIP.

- a. If a reasonable potential exists to exceed applicable water quality criteria or objectives, then a WQBEL must be established in accordance with one of three procedures contained in Section 1.4 of the SIP. These procedures include:
  1. If applicable and available, use of the WLA established as part of a total maximum daily load (TMDL).
  2. Use of a steady-state model to derive MDELs and AMELs.
  3. Where sufficient effluent and receiving water data exist, use of a dynamic model which has been approved by the Regional Water Board.
- b. Water quality-based effluent limitations (final) for bromoform, chlorodibromomethane and dichlorobromomethane are based on monitoring results and following the procedure based on the steady-state model, available in Section 1.4 of the SIP.
- c. In this Order, no dilution credit is being assigned. In accordance with the reopener provision in Section VI.C.1.e in the Order, the Order may be reopened upon the submission by the Discharger of adequate information to establish appropriate dilution credits or a mixing zone, as determined by the Regional Water Board.
- d. WQBELS Calculation

The Table in Attachment J summarized the development and calculation of the WQBELs in the Order.

Section 402(o) of the CWA and 40 CFR §122.44(l) require that effluent limitations or conditions in reissued Orders be at least as stringent as those in the existing Orders based on the submitted sampling data. Based on the RPA, the Regional Water Board determined that reasonable potential exists for copper, bromoform, chlorodibromomethane and dichlorobromomethane. Therefore, the Order establishes WQBEL for these pollutants based on the calculated WQBELs from the RPA except for copper. Since the WQBEL for copper based on the Ballona Creek Metal TMDL is more stringent than the calculated

WQBEL based on an RPA, the effluent limit for copper was based on the Ballona Creek Metal TMDL.

The existing Order does not contain effluent limitations for any of the priority pollutants. The Regional Water Board is implementing the CTR and SIP, and effluent limitations are required for those pollutants that show reasonable potential to exceed water quality standards. As previously stated, the RPA was conducted with effluent data from Discharge Point 002 and because there is insufficient data for Discharge 001, no RPA was conducted.

Generally, mass-based limitations ensure that proper treatment and no dilution is employed, to comply with the final effluent limitations. When calculating the mass-based limitations for discharges, the appropriate flow, daily maximum effluent concentration, multiplied by a conversion factor (8.34), should be used in the following equation:

$$\text{Mass (lbs/day)} = \text{flow rate (MGD)} \times 8.34 \times \text{effluent limitation (mg/L)}$$

where:

- mass = mass limit for a pollutant (lbs/day)
- effluent limitation = concentration limit for a pollutant (mg/L)
- flow rate = discharge flow rate (MGD)

**Table F-11**  
**Summary of WQBELs for Pollutants with Reasonable Potential**  
**Discharge Point 002**

Parameter	Units	Maximum Daily Effluent Limitations (MDELs)
Copper, Total Recoverable	µg/L	24 <sup>2</sup>
	Lbs/day <sup>1</sup>	0.001
Bromoform	µg/L	8.6
	Lbs/day <sup>1</sup>	0.0004
Chlorodibromomethane	µg/L	0.82
	Lbs/day <sup>1</sup>	0.00003
Dichlorobromomethane	µg/L	1.12
	Lbs/day <sup>1</sup>	0.00005

<sup>1</sup> Based on a maximum daily flow rate of 0.005 MGD.

<sup>2</sup> Based on Ballona Creek Metal TMDL

## **5. WQBELs based on Total maximum Daily Load (TMDL) Amendment to Basin Plan**

The Ballona Creek Metals TMDL (Resolution No. 2005-007, adopted by the Regional Water Board on July 7, 2005, and effective on January 11, 2006) specifies the numeric water quality targets (NWQT) and waste load allocations (WLAs) for copper, lead, selenium, and zinc for all point source discharges to Ballona Creek and Sepulveda Canyon Channel. The NWQT and WLAs for the specified metals (except selenium) are expressed as total recoverables. Jamison 1545 Wilshire, LLC discharges wastes to Ballona Creek. Therefore, effluent limits for copper, lead, selenium and zinc are prescribed in this Order and are based on the WLAs.

## **6. WQBELs based on Basin Plan Objectives**

The Basin Plan states that the pH of inland surface waters shall not be depressed below 6.5 or raised above 8.5 as a result of waste discharge. Based on the requirements of the Basin Plan an instantaneous minimum limitation of 6.5 and an instantaneous maximum limitation of 8.5 for pH are included in the Order. The Basin Plan lists temperature requirements for the receiving waters and references the Thermal Plan. Based on the requirements of the Thermal Plan and a white paper developed by Regional Water Board staff entitled *Temperature and Dissolved Oxygen Impacts on Biota in Tidal Estuaries and Enclosed Bays in the Los Angeles Region*, a maximum effluent temperature limitation of 86 °F is included in the Order. The white paper evaluated the optimum temperatures for steelhead, topsmelt, ghost shrimp, brown rock crab, jackknife clam, and blue mussel. The new temperature effluent limit is reflective of new information available that indicates that the 100°F temperature is not protective of aquatic organisms. A survey was completed for several kinds of fish and the 86°F temperature was found to be protective.

## **7. Final WQBELs**

Summaries of the WQBELs are as described below in Table F-12. The existing Order included a temperature effluent limitation of 100°F and a pH effluent limitation of 6.0 – 9.0 s.u. To be consistent with similar permits recently adopted by the Regional Water Board, these limits have been revised to 86 °F and 6.5 – 8.5 s.u., respectively. The TSS and turbidity effluent limitations have been revised from 150 mg/L to 75 mg/L. The revised effluent limitations for TSS and turbidity are based on similar permits recently adopted by the Regional Water Board. Similarly, acute toxicity is being added to the Order. These limits will be applied to both Discharge Points 001 and 002. Effluent limits for copper, lead, selenium, and zinc based on the Ballona Creek Metals TMDLs were established for Discharge Nos. 001 and 002. However, no limit for zinc for Discharge Point 002 because there is no reasonable potential based on the RPA. Effluent limits for bromoform, chlorodibromomethane, and dichlorobromomethane were added to Discharge Point 002 based on WQBELs. Mass-based effluent limitations have been established based on a maximum flow of 0.002, and 0.005 MGD for Discharge Nos. 001 and 002, respectively.

**Table F-12  
 Summary of Water Quality-Based Effluent Limitations  
 Discharge Point 001**

Parameter	Units	Effluent Limitations		
		Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
<b><i>Conventional Pollutants</i></b>				
PH	standard units	--	6.5	8.5
<b><i>Priority Pollutants</i></b>				
Copper, Total Recoverable	µg/L	24 <sup>1</sup>	--	--
	lbs/day	0.0004	--	--
Lead, Total Recoverable	µg/L	13 <sup>1</sup>	--	--
	lbs/day	0.00022	--	--
Selenium	µg/L	5 <sup>1</sup>	--	--
	Lbs/day	0.00008	--	--
Zinc, Total Recoverable	µg/L	304 <sup>1</sup>	--	--
	Lbs/day	0.0051	--	--
<b><i>Nonconventional Pollutants</i></b>				
Acute Toxicity	% survival	<sup>2</sup>	--	--
Temperature	°F		86	

Note: Mass-based effluent limitations for Discharge Point 002 were based on a maximum daily flow rate of 0.002MGD.

<sup>1</sup> Based on Ballona Creek Metals TMDL.

<sup>2</sup> Average survival in effluent for any three consecutive 96-hour static or continuous flow bioassay tests shall be at least 90% survival, with no single test producing less than 70 % survival. The Order includes a chronic testing trigger defined as the monthly median for chronic toxicity of 100% effluent shall not exceed 1 TUc in a critical life stage test.

**Table F-13  
 Summary of Water Quality-Based Effluent Limitations  
 Discharge Point 002**

Parameter	Units	Effluent Limitations			
		Maximum Daily	Instantaneous Minimum	Instantaneous Maximum	Average Monthly
<b>Conventional Pollutants</b>					
PH	Standard units	--	6.5	8.5	--
<b>Priority Pollutants</b>					
Copper, Total Recoverable	µg/L	24 <sup>1</sup>	--	--	--
	lbs/day	0.001	--	--	--
Lead, Total Recoverable	µg/L	13 <sup>1</sup>	--	--	--
	lbs/day	0.00022	--	--	--
Selenium	µg/L	5 <sup>1</sup>	--	--	--
	lbs/day	0.00008	--	--	--
Bromoform	µg/L	8.6	--	--	--
	lbs/day	0.0004	--	--	--
Chlorodibromomethane	µg/L	0.82	--	--	--
	lbs/day	0.00003	--	--	--
Dichlorobromomethane	µg/L	1.12	--	--	--
	lbs/day	0.00005	--	--	--
<b>Nonconventional Pollutants</b>					
Acute Toxicity	% survival	<sup>2</sup>	--	--	--
Temperature	°F	86			

Note: Mass-based effluent limitations for Discharge Point 002 were based on a maximum daily flow rate of 0.005 MGD.

<sup>1</sup> Based on Ballona Creek Metals TMDL.

<sup>2</sup> Average survival in effluent for any three consecutive 96-hour static or continuous flow bioassay tests shall be at least 90% survival, with no single test producing less than 70 % survival. The Order includes a chronic testing trigger defined as the monthly median for chronic toxicity of 100% effluent shall not exceed 1 TUC in a critical life stage test.

## 7. 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 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.

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 responses by 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 existing Order did not contain any acute toxicity limitations and monitoring requirements in accordance with the Basin Plan, in which the acute toxicity objective for discharges dictates that the average survival in undiluted effluent for any three consecutive 96-hour static or continuous flow bioassay tests shall be at least 90 percent, with no single test having less than 70 percent survival. Consistent with Basin Plan requirements, this Order adds acute toxicity effluent limitations and monitoring requirements.

Due to the intermittent nature of the discharge from Discharge Points 001 and 002, it is not expected to contribute to long-term toxic effects within the receiving water; therefore, the Discharger will not be required to conduct chronic toxicity testing. Intermittent discharges are likely to have short-term effects; therefore at this Facility, the Discharger will be required to comply with acute toxicity effluent limitations in accordance with the Basin Plan and the Order.

## D. Final Effluent Limitations

Section 402(o) of the CWA and 40 CFR §122.44(l) require that effluent limitations or conditions in reissued Orders be at least as stringent as those in the existing Orders based on the submitted sampling data. Effluent limitations for BOD, oil and grease, settleable solids and sulfides are being carried over from the existing Order (Order No. 97-101) for Discharge Points 001 and 002. The existing Order contains, in part, an effluent limitation for methyl tertiary butyl ether (MTBE) of 35 µg/L. Assembly Bill 592 (January 8, 1997) requires the State of California, Department of Health Services (DHS) to adopt primary and secondary drinking water standards for MTBE. In January 1999, DHS adopted 5 µg/L as the secondary standard for MTBE based on taste and odor threshold. This Order includes a revised effluent limitation for MTBE of 5 µg/L. Effluent limitations for pH and temperature have been revised to reflect water quality objectives changes in the Basin Plan for both Discharge Points 001 and 002. Effluent limitations for TSS and turbidity have been revised to reflect other Orders recently adopted by the Regional Water Board for both Discharge Points 001 and 002. Effluent limitations for acute toxicity have been added to the existing Order for both Discharge Points 001 and 002. These limitations are similar to those established for other facilities within the Los Angeles Region and continue to be appropriate for this facility.

The Regional Water Board determined that reasonable potential exists for copper, bromoform, chlorodibromomethane, and dichlorobromomethane. Therefore, the Order establishes WQBELs for these pollutants for Discharge Point 002. The effluent limits for copper, lead, selenium and zinc for Discharge Point 001 are based on the Ballona Creek Metals TMDL waste load allocations.

In accordance with 40 CFR §122.45(f), mass-based limits have been applied to this facility. At Discharge Point 001, mass-based limits are based on a maximum flow rate of 0.002 MGD. At Discharge Point 002, mass-based limits are based on a maximum flow rate of 0.005 MGD.

### **1. Effluent Limitations for Groundwater seepage and Wastewater Discharge**

Effluent limitations established in the Order for groundwater seepage discharge from the NPDES Discharge Point 001 (Latitude 34°03'09", Longitude 118°15'53") and wastewater discharge from Discharge Point 002 (Latitude 34°03'09", Longitude 118°15'53") into Ballona Creek, a water of the United States, above the Estuary, are shown in Table F-14, and Table F-15, respectively:

**Table F-14  
 Summary of Final Effluent Limitations  
 Discharge Point 001**

Parameter	Unit	Effluent Limitations					Basis for Limit <sup>1</sup>
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum	
<b>Conventional Pollutants</b>							
Biochemical Oxygen Demand (BOD) (5-day @ 20°C)	mg/L	--	--	30	--	--	E
	lbs/day <sup>2</sup>	--	--	0.5	--	--	
Oil and Grease	mg/L	--	--	15	--	--	E
	lbs/day <sup>2</sup>	--	--	0.25	--	--	
PH	standard units	--	--	--	6.5	8.5	E
Total Suspended Solids (TSS)	mg/L	--	--	75	--	--	E
	lbs/day <sup>2</sup>	--	--	1.25	--	--	
<b>Nonconventional Pollutants</b>							
Acute Toxicity	% survival	--	--	<sup>3</sup>	--	--	BP
Settleable Solids	ml/L	--	--	0.3	--	--	E
Temperature	°F	--	--	86	--	--	BP
Turbidity	NTU	--	--	75	--	--	BPJ
Sulfides	mg/L	--	--	1.0	--	--	E
	lbs/day <sup>2</sup>	--	--	0.017	--	--	
Methyl Tertiary Butyl Ether (MTBE)	mg/L	--	--	5.0	--	--	4
	lbs/day <sup>2</sup>	--	--	0.00008	--	--	
<b>Priority Pollutants</b>							
Copper, Total Recoverable	µg/L	--	--	24 <sup>5</sup>	--	--	Ballona Creek TMDL
	lbs/day <sup>2</sup>	--	--	0.0004	--	--	
Lead, Total Recoverable	µg/L	--	--	13 <sup>5</sup>	--	--	Ballona Creek TMDL
	lbs/day <sup>2</sup>	--	--	0.00022	--	--	
Selenium	µg/L	--	--	5 <sup>5</sup>	--	--	Ballona Creek TMDL
	lbs/day <sup>2</sup>	--	--	0.00008	--	--	
Zinc, Total Recoverable	µg/L	--	--	304 <sup>5</sup>	--	--	Ballona Creek TMDL
	lbs/day <sup>2</sup>	--	--	0.0051	--	--	

<sup>1</sup> E = Existing Order (No. 97-101), BP = Basin Plan, BPJ = Best Professional Judgment, based on similar permits in the Los Angeles Region.

- <sup>2</sup> Mass-based effluent limitations for Discharge Point 001 are based on a daily maximum flow rate of 0.002 MGD.  
Mass (lbs/day) = flow rate (MGD) x 8.34 x effluent limitation (mg/L)  
where: mass = mass limit for a pollutant (lbs/day)  
effluent limitation = concentration limit for a pollutant (mg/L)  
flow rate = discharge flow rate (MGD)
- <sup>3</sup> Average survival in effluent for any three consecutive 96-hour static or continuous flow bioassay tests shall be at least 90%, with not single test producing less than 70% survival.
- <sup>4</sup> The existing permit prescribed effluent limitations for methyl tertiary butyl ether (MTBE) of 35 µg/L. Assembly Bill 592 (October 8, 1997) requires the State of California, Department of Health Services (DHS) to adopt primary and secondary drinking water standards for MTBE. In January 1999, the DHS adopted 5 µg/L as the secondary standard for MTBE based on taste and odor threshold. Therefore, this Order includes an effluent limitation for MTBE of 5 µg/L.
- <sup>5</sup> This is the waste load allocation (WLA), according to the Ballona Creek Metals TMDL, Resolution No. 2005-007, adopted by the Regional Board in July 7, 2005, and became effective on January 11, 2006. The WLA serves as the effluent limitation for the discharge.

**Table F-15**  
**Summary of Final Effluent Limitations**  
**Discharge Point 002**

Parameter	Unit	Effluent Limitations					Basis for Limit <sup>1</sup>
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum	
<b>Conventional Pollutants</b>							
Biochemical Oxygen Demand (BOD) (5-day @ 20°C)	mg/L	--	--	30	--	--	E
	lbs/day <sup>2</sup>	--	--	1.2	--	--	
Oil and Grease	mg/L	--	--	15	--	--	E
	lbs/day <sup>2</sup>	--	--	0.63	--	--	
PH	Standard units	--	--	--	6.5	8.5	E
Total Suspended Solids (TSS)	mg/L	--	--	75	--	--	E, BPJ
	lbs/day <sup>2</sup>	--	--	3.13	--	--	
<b>Priority Pollutants</b>							
Copper, Total Recoverable	µg/L	--	--	24 <sup>3,4</sup>	--	--	Ballona Creek TMDL
	lbs/day <sup>2</sup>	--	--	0.0004 <sup>4</sup>	--	--	
Lead, Total Recoverable	µg/L	--	--	13 <sup>3</sup>	--	--	Ballona Creek TMDL
	lbs/day <sup>2</sup>	--	--	0.00022	--	--	
Selenium	µg/L	--	--	5 <sup>3</sup>	--	--	Ballona Creek TMDL
	lbs/day <sup>2</sup>	--	--	0.00008	--	--	
Bromoform	µg/L	--	--	8.6 <sup>4</sup>	--	--	CTR
	lbs/day <sup>2</sup>	--	--	0.0004 <sup>4</sup>	--	--	
Chlorodibromomethane	µg/L	--	--	0.82 <sup>4</sup>	--	--	CTR
	lbs/day <sup>2</sup>	--	--	0.00003 <sup>4</sup>	--	--	
Dichlorobromomethane	µg/L	--	--	1.1 <sup>4</sup>	--	--	CTR
	lbs/day <sup>2</sup>	--	--	0.00005 <sup>4</sup>	--	--	
<b>Nonconventional Pollutants</b>							
Acute Toxicity	% survival	--	--	5	--	--	BP
Settleable Solids	ml/L	--	--	0.3	--	--	E
Temperature	°F	--	--	86	--	--	BP
Turbidity	NTU	--	--	75	--	--	BPJ

<sup>1</sup> E = Existing Order (No. 97-101), BP = Basin Plan, CTR = California Toxics Rule, BPJ = Best Professional Judgment, based on similar permits in the Los Angeles Region.

<sup>2</sup> Mass-based effluent limitations for Discharge Point 001 are based on a daily maximum flow rate of 0.005 MGD.

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

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

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

flow rate = discharge flow rate (MGD)

<sup>3</sup> This is the waste load allocation (WLA), according to the Ballona Creek Metals TMDL, Resolution No. 2005-007, adopted by the Regional Board in July 7, 2005, and became effective on January 11, 2006. The WLA serves as the effluent limitation for the discharge.

<sup>4</sup> These final effluent limitations are in effect beginning September 3, 2009.

<sup>5</sup> Average survival in effluent for any three consecutive 96-hour static or continuous flow bioassay tests shall be at least 90%, with not single test producing less than 70% survival

## E. Interim Effluent Limitations

Based on effluent monitoring data submitted by the Discharger for Discharge Point 002 (only one set of sample data were provided for three CTR pollutants for Discharge Point 001), a comparison between the MEC and the calculated WQBEL indicates that the Discharger will be unable to consistently comply with the final effluent limitations established in the Order for copper, bromoform, chlorodibromomethane and dichlorobromomethane through Discharge Point 002. Therefore, interim effluent limitations have been established for these pollutants. However, the MEC for bromoform exceeded the AMEL but met the MDEL. Therefore, the MDEL will serve as the interim limitation for bromoform.

The Order contains a compliance schedule that allows the Discharger up to 3 years to comply with the revised effluent limitations for copper, bromoform, chlorodibromomethane and dichlorobromomethane. Within 1 year after the effective date of the Order, the Discharger must prepare and submit a compliance plan that describes the steps that will be taken to ensure compliance with applicable limitations.

40 CFR §131.38(e) provides conditions under which interim effluent limitations and compliance schedules may be issued. The Discharger may not be able to immediately comply with the effluent limitations for copper, bromoform, chlorodibromomethane and dichlorobromomethane through Discharge Point 002, interim limitations for these pollutants are prescribed in the Order.

Pursuant to the SIP (Section 2.2.1, Interim Requirements under a Compliance Schedule), when compliance schedules are established in an Order, interim limitations must be included based on current treatment facility performance or existing permit limitations, whichever is more stringent to maintain existing water quality. The existing Order No. 97-101 does not contain effluent limitations for copper, bromoform, chlorodibromomethane and dichlorobromomethane; therefore, the facility's performance (maximum effluent concentration) will serve as the interim effluent limitation for these constituents, except for bromoform where the MDEL will serve as the interim effluent limitation concentration. It should be noted that the Regional Water Board may take appropriate enforcement actions if interim limitations and requirements are not met.

The interim effluent limitations are in effect for the period beginning September 2, 2006, and ending on September 2, 2009. From the effective date of the Order until September 2, 2009, the discharge through Discharge Point 002 (Latitude 34° 02' 69" N, Longitude 118° 15' 53" W) in excess of the following interim limits is prohibited:

**Table F-16**  
**Summary of Interim Effluent Limitations**  
**Discharge Point 002**

Parameter	Units	Maximum Daily Interim Effluent Limitation
Copper, Total Recoverable	mg/L	230
	lbs/day <sup>1</sup>	0.0096
Bromoform	mg/L	8.6
	lbs/day <sup>1</sup>	0.0004
Chlorodibromomethane	mg/L	15
	lbs/day <sup>1</sup>	0.00062
Dichlorobromomethane	mg/L	11
	lbs/day <sup>1</sup>	0.0004

<sup>1</sup> Mass-based effluent limitations are based on a maximum discharge flow rate of 0.005 MGD.

**F. Land Discharge Specifications**

Not Applicable.

**G. Reclamation Specifications**

Not Applicable.

**V. RATIONALE FOR RECEIVING WATER LIMITATIONS**

**A. Surface Water**

The Basin Plan contains numeric and narrative water quality objectives applicable to all surface waters within the Los Angeles Region. Water quality objectives include an objective to maintain the high quality waters pursuant to federal regulations (40 CFR § 131.12) and State Water Board Resolution No. 68-16. Receiving water limitations in the Order are included to ensure protection of beneficial uses of the receiving water and are based on the water quality objectives contained in the Basin Plan.

**B. Groundwater**

Not Applicable.

**VI. RATIONALE FOR MONITORING AND REPORTING REQUIREMENTS**

Section 122.48 of 40 CFR requires all NPDES permits to specify recording and reporting of monitoring results. Sections 13267 and 13383 of the CWC authorize the water boards to require technical and monitoring reports. The 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**

Not Applicable.

**B. Effluent Monitoring**

Monitoring for pollutants expected to be present in the discharge will be required as established in the tentative MRP (Attachment E) and as required in the *"Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California"* adopted March 2, 2000.

To demonstrate compliance with effluent limitations established in the Order, the monitoring frequency for BOD, oil and grease, settleable solids, MTBE, turbidity, and sulfide was changed from annually to semiannually. For total suspended solids and pH, the monitoring frequency was changed from semiannually to quarterly. The monitoring frequency for copper, lead, selenium, bromofrom, chlorodibromomethane, and dichlorobromomethane is quarterly. Zinc is monitored in a quarterly basis in Discharge Point 001 and for 002, zinc is monitored annually. Acute toxicity is monitored once per year in Discharge Points 001 and 002. The Discharger is also required to monitor for priority pollutants regulated in the CTR once per year.

Effluent monitoring shall be conducted at the effluent discharge points (i.e., Discharge Point 001 and Discharge Point 002), prior to entry into Ballona Creek.

### **C. Whole Effluent Toxicity Testing Requirements**

WET protects the receiving water quality from the aggregate toxic effect of a mixture of pollutants in the effluent. An acute toxicity test is conducted over a short time period and measures mortality. A chronic toxicity test is conducted over a longer period of time and may measure mortality, reproduction, and growth. This Order includes limitations for acute toxicity, and therefore, monitoring requirements are included in the MRP (Attachment E) to determine compliance with the effluent limitations established in Limitations and Discharge Requirements, Effluent Limitations, Section IV.A.1.a of this Order. Since the discharge is intermittent, there is no chronic toxicity monitoring requirement in the permit.

### **D. Receiving Water Monitoring**

#### **1. Surface Water**

The discharge is to a storm drain; therefore, there is no immediate surface receiving water body from which to collect a sample. Surface water sampling is not required of this facility.

The Discharger is required to make visual observations during a discharge event and report these observations in the quarterly self-monitoring reports. The Regional Water Board will use the information to assess future impacts of the discharge.

#### **2. Groundwater**

Not Applicable.

### **E. Other Monitoring Requirements**

#### **1. Storm Water Monitoring**

The Discharger is required to measure and record the rainfall each day of the month. The Discharger is also required to conduct visual observations of all storm water discharge locations to observe the presence of floating and suspended materials, oil and grease, discoloration, turbidity and odor.

## **VII. RATIONALE FOR PROVISIONS**

### **A. Standard Provisions**

#### **1. Federal Standard Provisions**

Standard Provisions, which in accordance with 40 CFR §§122.41 and 122.42, apply to all NPDES discharges and must be included in every NPDES permit, are provided in Attachment D to the Order.

## **2. Regional Water Board Standard Provisions**

Regional Water Board Standard Provisions are based on the CWA, USEPA regulations, and the CWC.

### **B. Special Provisions**

#### **1. Re-Opener Provisions**

These provisions are based on 40 CFR Part 123 and the existing Order. The Regional Water Board may reopen the permit to modify permit conditions and requirements. Causes for modifications include the promulgation of new federal regulations, modification in toxicity requirements, or adoption of new regulations by the State Water Board or Regional Water Board, including revisions to the Basin Plan.

#### **2. Special Studies and Additional Monitoring Requirements**

a. Initial Investigation Toxicity Reduction Evaluation Workplan. This provision is based on Section 4 of the SIP, Toxicity Control Provisions.

#### **3. Best Management Practices and Pollution Prevention**

a. This provision is based on 40 CFR § 122.44(k).

b. The Discharger will specifically be required to develop and implement a plan to reduce the concentrations of copper, bromoform, chlorodibromomethane and dichlorobromomethane in its discharge. Therefore, the facility should evaluate options to achieve compliance with the revised permit limitations. These options may include, for example, the addition of additional treatment processes and/or pollution prevention and source control practices.

c. This Order establishes interim requirements such as requiring the Discharger to develop a pollutant minimization plan and/or source control measures.

#### **4. Compliance Schedules**

a. Based on effluent monitoring data submitted by the Discharger, a comparison between the MEC and calculated effluent limitations shows that the Discharger will be unable to consistently comply with final effluent limitations established in the Order for copper, bromoform, chlorodibromomethane and dichlorobromomethane. Hence, interim limitations have been prescribed for these constituents. As a result, the Order contains a compliance schedule that allows the Discharger up to 3 years to comply with the revised effluent limitations. Within 1 year after the effective date of this Order, the Discharger must prepare and submit a compliance plan that describes the steps that will be taken to ensure compliance with applicable limitations.

b. 40 CFR §131.38(e) provides conditions under which interim effluent limitations and compliance schedules may be issued. The Discharger may not be able to immediately comply with effluent limitations for copper, bromoform, chlorodibromomethane and dichlorobromomethane, therefore, interim effluent limitations for these pollutants are prescribed in the Order.

- c. Once final limitations become effective, the interim limitations will no longer apply. These interim effluent limitations shall be applicable until September 2, 2009, after which, the Discharger shall demonstrate compliance with the final effluent limitations.

**5. Construction, Operation, and Maintenance Specifications**

Not applicable.

**6. Special Provisions for Municipal Facilities (POTWs Only)**

Not applicable.

**VIII. PUBLIC PARTICIPATION**

The California Regional Water Quality Control Board, Los Angeles Region (Regional Water Board) is considering the issuance of WDRs that will serve as a NPDES permit for Jamison 1545 Wilshire, LLC. 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 permittee 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.

**B. Written Comments**

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

To be fully responded to by staff and considered by the Regional Water Board, written comments should be received at the Regional Water Board offices by 5:00 p.m. on July 11, 2006.

**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: August 3, 2006  
Time: 9:00 A.M.  
Location: City of Santa Clarita, Council Chambers  
23920 Valencia Blvd.,  
Santa Clarita, California

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. Our web address is <http://www.waterboards.ca.gov/losangeles> where you can access the current agenda for changes in dates and locations.

#### **D. Waste Discharge Requirements Petitions**

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

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

Attn: Elizabeth Jennings, Senior Staff Counsel

#### **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 below at any time between 8:30 a.m. and 4:45 p.m., Monday through Friday. Copying of documents may be arranged through the Regional Water Board by calling (213) 576-6600.

California Regional Water Quality Control Board  
Los Angeles Region  
320 West 4<sup>th</sup> Street, Suite 200  
Los Angeles, CA 90013

#### **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 Rosario Aston at (213) 576-6653.

## Attachment G – SWRCB Minimum Levels (ML)

### SWRCB Minimum Levels in ppb (µg/L)

The 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 SWRCB 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.

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

\*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 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	

Table 2b - SEMI-VOLATILE SUBSTANCES*	GC	GCMS	LC	COLOR
Fluorene		10	0.1	
Hexachloro-cyclopentadiene	5	5		
Hexachlorobenzene	5	1		
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 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		<b>20</b>	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 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 H – Priority Pollutant Monitoring List

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/600/R-93/116(PCM)
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
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

<b>CTR Number</b>	<b>Parameter</b>	<b>CAS Number</b>	<b>Suggested Analytical Methods</b>
41	1,1,1-Trichloroethane	71556	EPA 8260B
42	1,1,2-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
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

<b>CTR Number</b>	<b>Parameter</b>	<b>CAS Number</b>	<b>Suggested Analytical Methods</b>
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
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