# CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD LOS ANGELES REGION

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## ORDER NO. R4-2011-0097 NPDES NO. CA0003557

## WASTE DISCHARGE REQUIREMENTS FOR EQUILON ENTERPRISES, LLC, MORMON ISLAND MARINE TERMINAL

The following Discharger is subject to waste discharge requirements as set forth in this Order:

## Table 1. Discharger Information

Discharger	Equílon Enterprises, LLC	
Name of Facility	Mormon Island Marine Terminal	
	Berth 167, 168, and 169	*
Facility Address	Wilmington, CA 90744	
	Los Angeles County	

The discharge by the Equilon Enterprises, LLC, from the discharge points identified below is subject to waste discharge requirements as set forth in this Order:

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Discharge Point	Effluent Description	Discharge Point Latitude	Discharge Point Longitude	Receiving Water
001	Storm water from tank farm areas	33°45'21" N	118°16'04"W	Los Angeles Inner
002	Storm water from parking lot		118°16'03"W	Los Angeles Inner Harbor
003	Storm water from access road	33°45'18" N	118°16'03"W	Los Angeles Inner Harbor
004	Storm water from access road	 33°45'16" N	118°16'03"W	Los Angeles Inner Harbor
005	Storm water from access road	33°45'16" N	118°16'03"W	Los Angeles Inner Harbor
006	Storm water from access road	33°45'15" N	118°16'03"W	Los Angeles Inner Harbor
007	Storm water from access road	33°45'14" N	118°16'03"W	Los Angeles Inner Harbor
008	Storm water from access road	33°45'13" N	118°16'03"W	Los Angeles Inner Harbor
009	Storm water from access road	33°45'12″ N	118°16'03"W	Los Angeles Inner Harbor
010	Storm water from access road	33°45'12" N	118°16'03"W	Los Angeles Inner Harbor

## Table 2. Discharge Location

## Table 3. Administrative Information

This Order was adopted by the Regional Water Quality Control Board on:	June 2, 2011
This Order shall become effective on:	July 2, 2011
This Order shall expire on:	May 10, 2016
The Discharger shall file a Report of Waste Discharge in accordance with title 23, California Code of Regulations, as application for issuance of new waste discharge requirements no later than:	180 days prior to the Order expiration date

I, Samuel Unger, Executive Officer, do hereby certify that this Order with all attachments is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Region, on June 2, 2011.

Samuel Unger, Executive Officer

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Equilon Enterprises, LLC Mormon Island Marine Terminal

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## I. FACILITY INFORMATION

The following Discharger is subject to waste discharge requirements as set forth in this Order:

## Table 4. Facility Information

Discharger	Equilon Enterprises, LLC.	
Name of Facility	Mormon Island Marine Terminal	
	Berth 167, 168, and 169	
Facility Address	Wilmington, CA 90744	
	Los Angeles County	
Facility Contact, Title, and Phone	Rick Roper, Operations Supervisor, 310-816-2307	
Mailing Address	20945 South Wilmington Avenue, Carson, CA 90810-1039	
Type of Facility	Bulk Petroleum Storage and Distribution Facility	
Facility Design Flow	0.216 million gallons per day (MGD)	

## II. FINDINGS

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

A. Background. Equilon Enterprises, LLC (hereinafter Discharger) is currently discharging pursuant to Order No. R4-2006-0047 and National Pollutant Discharge Elimination System (NPDES) Permit No. CA0003557. The Discharger submitted a Report of Waste Discharge (ROWD), dated October 7, 2010, and supplemental information was submitted on November 9, 2010. The Discharger applied for an NPDES permit renewal to discharge up to 0.216 MGD of untreated storm water from Discharge Point No. 001 of the Mormon Island Marine Terminal, hereinafter Facility. The application was deemed complete on December 21, 2010.

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

- B. Facility Description. The Discharger operates a bulk petroleum storage facility for the temporary storage and transfer of finished petroleum products (e.g., gasoline, jet fuel and fuel additives) and denatured ethanol from cargo ships to the Los Angeles area. During wet weather, storm water runoff from the tank farm areas is impounded and pumped to pass through an oil-water separator before being discharged (see table on cover page) to the Los Angeles Inner Harbor, a water of the United States, near Berth 167 via Discharge Point No. 001. Non-industrial storm water from parking areas is restricted by curbing and captured by yard drains. If no sheen is present, storm water is released by a gate valve in the curbing and through Discharge Point No. 002 to the Inner Harbor. If sheen is present, then contaminated storm water from the parking area, and other wastewaters generated on site, are pumped to a wastewater storage tank, removed via a vacuum truck or discharged to the City of Los Angeles sewer system. Eight additional non-industrial storm water discharge points (Discharge Point Nos. 003 -010) are located along the southern portion of an access road on the perimeter of the Facility. Attachment B provides a topographic map of the area around the facility. Attachment C provides a flow schematic of the facility and Figure C-2 shows the discharge points and monitoring locations.
- C. Legal Authorities. This Order is issued pursuant to section 402 of the federal Clean Water Act (CWA) and implementing regulations adopted by the USEPA and chapter 5.5, division 7 of the California Water Code (commencing with section 13370). It shall serve as an NPDES permit for point source discharges from this facility to surface waters. This Order also serves as Waste Discharge Requirements (WDRs) pursuant to article 4, chapter 4, division 7 of the Water Code (commencing with section 13260).
- D. **Background and Rationale for Requirements.** The Regional Water Board developed the requirements in this Order based on information submitted as part of the application, through monitoring and reporting programs, and other available information. The Fact Sheet (Attachment F), which contains background information and the rationale for

Order requirements, is hereby incorporated into this Order and constitutes part of the Findings for this Order. Attachments A through E and G through I are also incorporated into this Order.

- E. California Environmental Quality Act (CEQA). Under Water Code section 13389, this action to adopt an NPDES permit is exempt from the provisions of CEQA, Public Resources Code sections 21100-21177.
- F. **Technology-based Effluent Limitations.** Section 301(b) of the CWA and implementing USEPA permit regulations at section 122.44, title 40 of the Code of Federal Regulations<sup>1</sup>, require that permits include conditions meeting applicable technology-based requirements at a minimum, and any more stringent effluent limitations necessary to meet applicable water quality standards. The discharge authorized by this Order must meet minimum federal technology-based requirements based on Best Professional Judgment (BPJ) in accordance with Part 125, section 125.3. A detailed discussion of the technology-based effluent limitations development is included in the Fact Sheet (Attachment F).
- G. Water Quality-Based Effluent Limitations. Section 301(b) of the CWA and section 122.44(d) require that permits include limitations more stringent than applicable federal technology-based requirements where necessary to achieve applicable water quality standards.

Section 122.44(d)(1)(i) mandates that permits include effluent limitations for all pollutants that are or may be discharged at levels that have the reasonable potential to cause or contribute to an exceedance of a water quality standard, including numeric and narrative objectives within a standard. Where reasonable potential has been established for a pollutant, but there is no numeric criterion or objective for the pollutant, water quality-based effluent limitations (WQBELs) must be established using: (1) USEPA criteria guidance under CWA section 304(a), supplemented where necessary by other relevant information; (2) an indicator parameter for the pollutant of concern; or (3) a calculated numeric water quality criterion, such as a proposed state criterion or policy interpreting the state's narrative criterion, supplemented with other relevant information, as provided in section 122.44(d)(1)(vi).

## H. Watershed Management Approach and Total Maximum Daily Loads (TMDLs)

The Regional Board has implemented the Watershed Management Approach to address water quality issues in the region. Watershed management may include diverse issues as defined by stakeholders to identify comprehensive solutions to protect, maintain, enhance, and restore water quality and beneficial uses. To achieve this goal, the Watershed Management Approach integrates the Regional Water Board's many diverse programs, particularly TMDLs, to better assess cumulative impacts of pollutants from all point and nonpoint sources. A TMDL is a tool for implementing water quality standards and is based on the relationship between pollution sources and in-stream water quality conditions. The TMDL

<sup>&</sup>lt;sup>1</sup> All further statutory references are to title 40 of the Code of Federal Regulations unless otherwise indicated.

establishes the allowable loadings or other quantifiable parameters for a waterbody and thereby provides the basis to establish water quality based controls. These controls should provide the pollution reduction necessary for a waterbody to meet water quality standards. This process facilitates the development of watershedspecific solutions that balance the environmental and economic impacts within the watershed. The TMDLs will establish waste load allocations (WLAs) and load allocations (LAs) for point and non-point sources, and will result in achieving water quality standards for the waterbody.

In November, 2010, the USEPA approved the listed water body/pollutant combinations contained in the State's 2008 303(d) list. Certain receiving waters in the Los Angeles and Ventura County watersheds do not fully support beneficial uses and therefore have been classified as impaired on the 2008 303(d) list and have been scheduled for TMDL development. The 2008 State Water Board's California 303(d) List classifies the Los Angeles/Long Beach Inner Harbor as impaired due to beach closures, benthic community effects, chrysene, copper, DDT, PCBs, sediment toxicity, and zinc.

The Los Angeles Harbor Bacteria TMDL (R4-2004-011) addresses impairment in the Main Ship Channel and Inner Cabrillo Beach, both located within the Los Angeles Harbor. The Basin Plan Amendment that incorporates the TMDL into the water quality objectives assigns a WLA to individual and general storm water permits within the watershed equal to zero days of exceedances of the numeric bacteria objectives in the Basin Plan. The provisions of the Los Angeles Harbor Bacteria TMDL are applied to this Order.

I. Water Quality Control Plans. The Regional Water Board adopted a Water Quality Control Plan for the Los Angeles Region (hereinafter Basin Plan) on June 13, 1994 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, the Basin Plan implements State Water Board Resolution No. 88-63, which established state policy that all waters, with certain exceptions, should be considered suitable or potentially suitable for municipal or domestic supply. Beneficial uses applicable to the Los Angeles Inner Harbor, are as follows:

Discharge Point	Receiving Water Name	Beneficial Use(s)
001 (Industrial Contact Storm Water)		Existing: Industrial service supply (IND); navigation (NAV); noncontact water recreation (REC-2); commercial and sport fishing
002 (Parking Lot)	Los Angeles Inner Harbor	(COMM); marine habitat (MAR); and rare, threatened or endangered species (RARE).
003 – 010 (Access Road)		Potential: Water contact recreation (REC-1); and shellfish harvesting (SHELL).

#### Table 5. Basin Plan Beneficial Uses

- J. Thermal Plan. The State Water Board adopted the Water Quality Control Plan for Control of Temperature in the Coastal and Interstate Water and Enclosed Bays and Estuaries of California (Thermal Plan) on May 18, 1972, and amended this plan on September 18, 1975. This plan contains temperature objectives for inland and coastal surface waters. Requirements of this Order implement the Thermal Plan.
- K. National Toxics Rule (NTR) and California Toxics Rule (CTR). USEPA promulgated the NTR on December 22, 1992, for 14 States including California. The NTR was later amended on May 4, 1995 and November 9, 1999. About forty criteria in the NTR applied in California. On May 18, 2000, USEPA adopted the CTR. The CTR promulgated new toxics criteria for California and, in addition, incorporated the previously adopted NTR criteria that were applicable in the state. The CTR was amended on February 13, 2001. These rules contain water quality criteria for priority pollutants.
- L. State Implementation Policy. On March 2, 2000, the State Water Board adopted the Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California (State Implementation Policy or SIP). The SIP became effective on April 28, 2000, with respect to the priority pollutant criteria promulgated for California by the USEPA through the NTR and to the priority pollutant objectives established by the Regional Water Board in the Basin Plan. The SIP became effective on May 18, 2000, with respect to the priority pollutant criteria promulgated by the USEPA through the CTR. The State Water Board adopted amendments to the SIP on February 24, 2005, that became effective on July 13, 2005. The SIP establishes implementation provisions for priority pollutant criteria and objectives and provisions for chronic toxicity control. Requirements of this Order implement the SIP.
- M. 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. The SIP further stipulates that 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. Since the May 18, 2010 date has expired, the SIP no longer authorizes compliance schedules for CTR criteria.
- N. Alaska Rule. On March 30, 2000, USEPA revised its regulation that specifies when new and revised state and tribal water quality standards (WQS) become effective for CWA purposes. (40 CFR. § 131.21; 65 Fed. Reg. 24641 (April 27, 2000).) Under the revised regulation (also known as the Alaska rule), new and revised standards submitted to USEPA after May 30, 2000, must be approved by USEPA before being used for CWA purposes. The final rule also provides that standards already in effect and submitted to USEPA by May 30, 2000, may be used for CWA purposes, whether or not approved by USEPA.

O. Stringency of Requirements for Individual Pollutants. This Order contains both technology-based and water quality-based effluent limitations (WQBELs) for individual pollutants. The technology-based effluent limitations consisting of restrictions on biochemical oxygen demand (BOD), oil and grease, total suspended solids (TSS), chromium VI, turbidity, total recoverable silver, total recoverable zinc, benzene, ethylbenzene, toluene, and phenols. Restrictions on these constituents are discussed in IV.B of the Fact Sheet. This Order's technology-based pollutant restrictions implement the minimum, applicable federal technology-based requirements.

The WQBELs consist of restrictions on bacteria, pH, temperature, total recoverable arsenic, total recoverable copper, total recoverable lead, and acute toxicity. WQBELs have been scientifically derived to implement water guality objectives that protect beneficial uses. Both the beneficial uses and the water quality objectives have been approved pursuant to federal law and are the applicable federal water quality standards. To the extent that toxic pollutant WQBELs were derived from the CTR, the CTR is the applicable standard pursuant to section 131.38. The scientific procedures for calculating the individual WQBELs for priority pollutants are based on the SIP, which was approved by USEPA on May 18, 2000. All beneficial uses and water quality objectives contained in the Basin Plan were approved under state law and submitted to and approved by USEPA prior to May 30, 2000. Any water quality objectives and beneficial uses submitted to USEPA prior to May 30, 2000, but not approved by USEPA before that date, are nonetheless "applicable water quality standards for purposes of the CWA" pursuant to section 131.21(c)(1). The remaining water quality objectives and beneficial uses implemented by this Order are applicable water quality standards pursuant to Section 131.21(c)(2). Collectively, this Order's restrictions on individual pollutants are no more stringent than required to implement the requirements of the CWA.

- P. Antidegradation Policy. Section 131.12 requires that the state water quality standards include an antidegradation policy consistent with the federal policy. The State Water Board established California's antidegradation policy in State Water Board Resolution No. 68-16. Resolution No. 68-16 incorporates the federal antidegradation policy where the federal policy applies under federal law. Resolution No. 68-16 requires that existing quality of waters be maintained unless degradation is justified based on specific findings. The Regional Water Board's Basin Plan implements, and incorporates by reference, both the state and federal antidegradation policies. As discussed in detail in the Fact Sheet the permitted discharge is consistent with the antidegradation provision of section 131.12 and State Water Board Resolution No. 68-16.
- Q. Anti-Backsliding Requirements. Sections 402(o)(2) and 303(d)(4) of the CWA and federal regulations at title 40, Code of Federal Regulations section 122.44(I) prohibit backsliding in NPDES permits. These anti-backsliding provisions require effluent limitations in a reissued permit to be as stringent as those in the previous permit, with some exceptions where limitations may be relaxed. All effluent limitations in this Order are at least as stringent as the effluent limitations in the previous Order.
- R. Endangered Species Act. This Order does not authorize any act that results in the taking of a threatened or endangered species or any act that is now prohibited, or

becomes prohibited in the future, under either the California Endangered Species Act (Fish and Game Code sections 2050 to 2097) or the Federal Endangered Species Act (16 U.S.C.A. sections 1531 to 1544). This Order requires compliance with effluent limits, receiving water limits, and other requirements to protect the beneficial uses of waters of the state. The discharger is responsible for meeting all requirements of the applicable Endangered Species Act.

- S. **Monitoring and Reporting.** Section 122.48 requires that all NPDES permits specify requirements for recording and reporting monitoring results. Water Code sections 13267 and 13383 authorizes the Regional Water Board to require technical and monitoring reports. The Monitoring and Reporting Program establishes monitoring and reporting requirements to implement federal and State requirements. This Monitoring and Reporting Program is provided in Attachment E.
- T. **Standard and Special Provisions.** Standard Provisions, which apply to all NPDES permits in accordance with section 122.41, and additional conditions applicable to specified categories of permits in accordance with section 122.42, are provided in Attachment D. The discharger must comply with all standard provisions and with those additional conditions that are applicable under section 122.42. The Regional Water Board has also included in this Order special provisions applicable to the Discharger. A rationale for the special provisions contained in this Order is provided in the attached Fact Sheet.
- U. **Provisions and Requirements Implementing State Law.** The provisions/ requirements in subsection VI.C of this Order are included to implement state law only. These provisions/requirements are not required or authorized under the federal CWA; consequently, violations of these provisions/requirements are not subject to the enforcement remedies that are available for NPDES violations.
- V. **Notification of Interested Parties.** The Regional Water Board has notified the Discharger and interested agencies and persons of its intent to prescribe Waste Discharge Requirements for the discharge and has provided them with an opportunity to submit their written comments and recommendations. Details of notification are provided in the Fact Sheet of this Order.
- W. **Consideration of Public Comment.** The Regional Water Board, in a public meeting, heard and considered all comments pertaining to the discharge. Details of the Public Hearing are provided in the Fact Sheet of this Order.

THEREFORE, IT IS HEREBY ORDERED, that this Order supersedes Order No. R4-2006-0047 except for enforcement purposes, and, in order to meet the provisions contained in division 7 of the Water Code (commencing with section 13000) and regulations adopted thereunder, and the provisions of the federal Clean Water Act (CWA) and regulations and guidelines adopted thereunder, the Discharger shall comply with the requirements in this Order.

## III. DISCHARGE PROHIBITIONS

- A. Wastes discharged shall be limited to a maximum of 0.216 MGD of storm water from Discharge Point No. 001 as described in the findings. Discharged rainfall runoff generating oil sheen flow is prohibited for Discharge Points 002 through 010. The flow must be visually inspected and determined to be free of sheens. The discharge of wastes from accidental spills or other sources is prohibited.
- **B.** Discharges of wastewater, materials, thermal wastes, elevated temperature wastes, toxic wastes, deleterious substances, or wastes other than those authorized by this Order, to a storm drain system, the Los Angeles Inner Harbor, or other waters of the State, are prohibited.
- **C.** Neither the treatment nor the discharge of pollutants shall create pollution, contamination, or a nuisance as defined by Section 13050 of the Water Code.
- **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 Federal CWA and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to section 303 of the Federal CWA, and amendments thereto, the 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 No. 001

### 1. Final Effluent Limitations – Discharge Point No. 001

**a.** The Discharger shall maintain compliance with the following effluent limitations at Discharge Point No. 001, with compliance measured at Monitoring Location EFF-001 as described in the attached MRP (Attachment E):

				Effluent Limitations	
Parameter	Units	Average Monthly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Conventional Pollutants					
Biochemical Oxygen Demand	mg/L		30	,	-
(BOD) (5-day @ 20 deg. C)	lbs/day <sup>1</sup>		54		
Oil and Grease	mg/L		15		
	lbs/day <sup>1</sup>		27		
pH	s.u.			6.5	- 8.5
Total Suspended Solids (TSS)	mg/L		75	· · · · · · ·	
	lbs/day <sup>1</sup>		135		
Priority Pollutants					
Arsenic, Total Recoverable	µg/L		59		
Arsenic, Total Recoverable	lbs/day <sup>1</sup>	- <b></b> >	0.11		
Chromium VI, Total	µg/L		1,100	)	
Recoverable	lbs/day <sup>1</sup>		2.0		<b></b> ' .
Conner Total Baseyerable	µg/L		5.8		• ••
Copper, Total Recoverable	lbs/day <sup>1</sup>		0.010		· ·
Lead, Total Recoverable	µg/L		14		· ••
Leau, Total Recoverable	lbs/day <sup>1</sup>	. <b></b>	0.025		
Silver, Total Recoverable	µg/L		1.9		
Silver, Total Recoverable	lbs/day <sup>1</sup>		0.0034		
Zine Total Deservable	µg/L		90		
Zinc, Total Recoverable	lbs/day <sup>1</sup>		0.16		· ••• .
Danzana	µg/L		71		
Benzene	lbs/day <sup>1</sup>		0.13		
	µg/L .	<del></del>	29,000		
Ethylbenzene	lbs/day1		52		
Taluana	µg/L	6-17-1	200,000		
Toluene	lbs/day1		360		
Non-Conventional Pollutants			····		· ··-··
Temperature	°F	· •••			86
	mg/L		1.0		
Phenols	lbs/day <sup>1</sup>		1.8	·	
Turbidity	NTU		75	·	

#### Table 6. Effluent Limitations for Discharge Point No. 001

<sup>1</sup> The mass emissions rate is based on a maximum flow of 0.216 MGD and is calculated as follows: Flow (MGD) x Concentration (mg/L) x 8.34 (conversion factor) = lbs/day.

- **b.** The Discharger shall maintain compliance with the following effluent limitations for bacteria at Discharge Point No. 001, with compliance measured at Monitoring Location EFF-001 as described in the attached MRP (Attachment E):
  - i. Rolling 30-day Geometric Mean Limitations:
    - (a) Total coliform density shall not exceed 1,000/100 ml.
    - (b) Fecal coliform density shall not exceed 200/100 ml.
    - (c) Enterococcus density shall not exceed 35/100 ml.
  - ii. Single Sample Limitations:
    - (a) Total coliform density shall not exceed 10,000/100 ml.
    - (b) Fecal coliform density shall not exceed 400/100 ml.
    - (c) Enterococcus density shall not exceed 104/100 ml.
    - (d) Total coliform density shall not exceed 1,000/100 ml, if the ratio of fecal to total coliform exceeds 0.1.
- **c.** The acute toxicity of the effluent shall be such that:
  - i. The average survival in the undiluted effluent for any three (3) consecutive 96-hour static or continuous flow bioassay test shall be at least 90%, and
  - ii. No single test shall produce less than 70% survival. Compliance with the toxicity objectives will be determined by the method described in section V of the MRP (Attachment E).

## 2. Interim Effluent Limitations

Not Applicable

## **B.** Land Discharge Specifications

Not Applicable

### C. Reclamation Specifications

Not Applicable

## V. RECEIVING WATER LIMITATIONS

#### A. Surface Water Limitation

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

- **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. 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.
- **3.** Water Contact Standards
  - a. State/Regional Water Board Water Contact Standards:

The waste discharged shall not cause the following bacterial standards to be exceeded in the receiving water:

- i. Rolling 30-day Geometric Mean Limits
  - (a) Total coliform density shall not exceed 10,000/100 ml.
  - (b) Fecal coliform density shall not exceed 200/100 ml.
  - (c) Enterococcus density shall not exceed 35/100 ml.
- ii. Single Sample Limitations
  - (a) Total coliform density shall not exceed 10,000/100 ml.
  - (a) Fecal coliform density shall not exceed 400/100 ml.
  - (c) Enterococcus density shall not exceed 104/100 ml.
  - (d) Total coliform density shall not exceed 1,000/100 ml, when the fecal to total coliform ratio exceeds 0.1.
- **4.** 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.
- 5. Exceed total ammonia (as N) concentrations specified in the Regional Water Board Resolution No. 2004-022. Resolution No. 2004-022 revised the ammonia water quality objectives for inland surface waters not characteristic of freshwater in the 1994 Basin Plan, to be consistent with USEPA's "Ambient Water Quality Criteria for Ammonia (Saltwater) 1989." Adopted on March 4, 2004, Resolution No. 2004-022 was approved by State Water Board, Office of Administrative Law (OAL) and USEPA on July 22, 2004, September 14, 2004, and May 19, 2005, respectively and is now in effect.

- 6. The presence of visible, floating, suspended or deposited macroscopic particulate matter or foam.
- **7.** 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.
- **8.** Suspended or settleable materials, chemical substances or pesticides in amounts that cause nuisance or adversely affect any designated beneficial use.
- **9.** 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.
- **10.**Accumulation of bottom deposits or aquatic growths.
- **11.**Biostimulatory substances at concentrations that promote aquatic growth to the extent that such growth causes nuisance or adversely affects beneficial uses.
- **12.** The presence of substances that result in increases of BOD that adversely affect beneficial uses.
- **13.** 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.
- **14.** Alteration of turbidity, or apparent color beyond present natural background levels.
- **15.** Damage, discolor, nor cause formation of sludge deposits on flood control structures or facilities nor overload the design capacity.
- **16.**Degrade surface water communities and populations including vertebrate, invertebrate, and plant species.
- **17.**Problems associated with breeding of mosquitoes, gnats, black flies, midges, or other pests.
- **18.** Create nuisance, or adversely affect beneficial uses of the receiving water.
- **19.** 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 section 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

Equilon Enterprises, LLC Mormon Island Marine Terminal

## **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 sections 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 Federal CWA and amendments thereto.
  - 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:
  - i. Violation of any term or condition contained in this Order;
  - ii. Obtaining this Order by misrepresentation, or failure to disclose all relevant facts;
  - iii. 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 ROWD appropriate filing fee.
- **k.** The Discharger shall file with the Regional Water Board a ROWD at least 120 days before making any material change or proposed change in the character, location or volume of the discharge.
- I. 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 Regional Water 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 Water Code provides that any person who violates a waste discharge requirement or a provision of the Water Code 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.

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.

- **o.** 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.
- **p.** 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.
- **q.** The Discharger shall notify the Executive Officer in writing no later than 6 months prior to the planned discharge of any chemical, other than the products previously reported to the Executive Officer, which may be toxic to aquatic life. Such notification shall include:
  - i. Name and general composition of the chemical,
  - ii. Frequency of use,
  - iii. Quantities to be used,
  - iv. Proposed discharge concentrations, and
  - v. USEPA registration number, if applicable.
- r. Failure to comply with provisions or requirements of this Order, or violation of other applicable laws or regulations governing discharges from this facility, may subject the Discharger to administrative or civil liabilities, criminal penalties, and/or other enforcement remedies to ensure compliance. Additionally, certain violations may subject the Discharger to civil or criminal enforcement from appropriate local, state, or federal law enforcement entities.
- s. In the event the Discharger does not comply or will be unable to comply for any reason, with any prohibition, AMEL, MDEL, instantaneous, or receiving water limitation of this Order, the Discharger shall notify the Regional Water Board by telephone (216)-576-6600 within 24 hours of having knowledge of such noncompliance, and shall confirm this notification in writing within five days, unless the Regional Water Board waives confirmation. The written notification shall state the nature, time, duration, and cause of noncompliance, and shall describe the measures being taken to remedy the current noncompliance and, prevent recurrence including, where applicable, a schedule of implementation. Other noncompliance requires written notification as above at the time of the normal monitoring report.

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

## B. Monitoring and Reporting Program (MRP) Requirements

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

### C. Special Provisions

### 1. Reopener Provisions

- **a.** If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Federal CWA, and amendments thereto, the Regional Water 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.
- **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 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 or the adoption of a TMDL applicable to the Los Angeles Inner Harbor.
- 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.
- f. This Order may be reopened for modification, or revocation and reissuance, as a result of the detection of a reportable priority pollutant generated by special conditions included in this Order. These special conditions may be, but are not limited to, fish tissue sampling, whole effluent toxicity, monitoring requirements on internal waste stream(s), and monitoring for surrogate parameters. Additional requirements may be included in this Order as a result of the special condition monitoring data
- 2. Special Studies, Technical Reports and Additional Monitoring Requirements
  - a. Initial Investigation TRE Workplan

The Discharger shall submit to the Regional Water Board an Initial Investigation 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:

- i. 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;
- ii. 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 operation of the facility;
- iii. If a TIE is necessary, an indication of the person who would conduct the TIEs (i.e., an in-house expert or an outside contractor) (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

#### a. Storm Water Pollution Prevention Plan (SWPPP)

The Discharger shall submit, **within 90 days** of the effective date of this Order an updated SWPPP that describes site-specific management practices for minimizing contamination of storm water runoff and for preventing contaminated storm water runoff from being discharged through Discharge Point Nos. 001 through 010 directly to waters of the State. The SWPPP shall be developed in accordance with the requirements in Attachment G.

### b. Best Management Practices (BMP) Plan

The Discharger shall submit, **within 90 days** of the effective date of this Order, an updated BMP Plan that includes site-specific plans and procedures implemented and/or to be implemented to prevent hazardous waste/material from being discharged to waters of the United States through Discharge Point Nos. 001 through 010. The Discharger shall assure that the storm water discharges from the Facility would neither cause, nor contribute to the exceedance of water quality standards and objectives, nor create conditions of nuisance in the receiving water, and that the unauthorized discharges (i.e., spills) to the receiving water have been effectively prohibited. The BMPs shall be consistent with the general guidance contained in the USEPA *Guidance Manual for Developing Best Management Practices (BMPs)* (EPA 833-B-93-004).

### c. Spill Prevention Control and Countermeasure (SPCC) Plan

The Discharger shall submit, **within 90 days** of the effective date of this Order, an SPCC Plan that describes the preventive (failsafe) and contingency (cleanup) plans for controlling accidental discharges, and for minimizing the effect of such events. The SPCC Plan shall be reviewed at a minimum once per year and updated as needed.

d. The Discharger shall implement the updated SWPPP, BMPs, and SPCC Plan within 10 days of the approval by the Executive Officer or no later than 90 days after submission to the Regional Water Board, whichever comes first.

Plans shall cover all areas of the Facility and shall include an updated drainage map for the facility. The Discharger shall identify on a map of appropriate scale the areas that contribute runoff to the permitted discharge points; describe the activities in each area and the potential for contamination of storm water runoff and the discharge of hazardous waste/material; and address the feasibility of containment and/or treatment of the storm water. The plans shall be reviewed annually and at the same time. Updated information shall be submitted within 30 days of revision.

### 4. Construction, Operation and Maintenance Specifications

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

### 5. Special Provisions for Municipal Facilities (POTWs Only)

Not Applicable

#### 6. Other Special Provisions

Not Applicable

#### 7. Compliance Schedules

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 (see Reporting Requirement I.G. of the MRP), then the Discharger is out of compliance.

### B. Effluent Limitations 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 ND or DNQ to have concentrations equal to zero, provided that the applicable ML is used.

## C. Effluent Limitations Expressed as a Median.

In determining compliance with a median limitation, the analytical results in a set of data will be arranged in order of magnitude (either increasing or decreasing order); and

- **1.** If the number of measurements (n) is odd, then the median will be calculated as =  $X_{(n+1)/2}$ , or
- **2.** If the number of measurements (n) is even, then the median will be calculated as =  $[X_{n/2} + X_{(n/2)+1}]$ , i.e. the midpoint between the n/2 and n/2+1 data points.

### D. Mass-based Effluent Limitations.

In calculating mass emission rates from the monthly average concentrations, use one half of the method detection limit 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 Limitations and Discharge Requirements, Section VII.B, 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.

### E. Multiple Sample Data.

When determining compliance with an AMEL or MDEL for priority pollutants and more than one sample result is available, the Discharger shall compute the arithmetic mean unless the data set contains one or more reported determinations of "Detected, but Not Quantified" (DNQ) or "Not Detected" (ND). In those cases, the Discharger shall compute the median in place of the arithmetic mean in accordance with the following procedure:

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

### F. Average Monthly Effluent Limitation (AMEL).

If the average (or when applicable, the median determined by subsection E above for multiple sample data) of daily discharges over a calendar month exceeds the AMEL for a given parameter, this will represent a single violation, though the Discharger will be considered out of compliance for each day of that month for that parameter (e.g., resulting in 31 days of non-compliance in a 31-day month). 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.

In determining compliance with the AMEL, the following provisions shall also apply to all constituents:

- **1.** If the analytical result of a single sample, monitored monthly, quarterly, semiannually, or annually, does not exceed the AMEL for that constituent, the Discharger has demonstrated compliance with the AMEL for that month;
- 2. If the analytical result of a single sample, monitored monthly, quarterly, semiannually, or annually, exceeds the AMEL for any constituent, the Discharger shall collect four additional samples at approximately equal intervals during the month. 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.

When all sample results are greater than or equal to the reported Minimum Level (see Reporting Requirement I.G. of the MRP), the numerical average of the analytical results of these five samples will be used for compliance determination.

When one or more sample results are reported as "Not-Detected (ND)" or "Detected, but Not Quantified (DNQ)" (see Reporting Requirement I.G. of the MRP), the median value of these four samples shall be used for compliance determination. If one or both of the middle values is ND or DNQ, the median shall be the lower of the two middle values.

- **3.** In the event of noncompliance with an AMEL, the sampling frequency for that constituent shall be increased to weekly and shall continue at this level until compliance with the AMEL has been demonstrated.
- **4.** If only one sample was obtained for the month or more than a monthly period and the result exceeds the AMEL, then the Discharger is in violation of the AMEL.

### G. Maximum Daily Effluent Limitations (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.

## H. 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).

#### I. 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

#### Arithmetic Mean (µ)

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

Arithmetic mean =  $\mu$  =  $\Sigma x / n$ 

where:  $\Sigma x$  is the sum of the measured ambient water concentrations, and n is the number of samples.

## Average Monthly Effluent Limitation (AMEL)

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

## Bioaccumulative

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

#### Carcinogenic

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

#### Coefficient of Variation (CV)

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

#### Daily Discharge

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

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

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

## Detected, but Not Quantified (DNQ)

DNQ are those sample results less than the RL, but greater than or equal to the laboratory's MDL.

## **Dilution Credit**

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

### Effluent Concentration Allowance (ECA)

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

#### Enclosed Bays

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

#### **Estimated Chemical Concentration**

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

#### Estuaries

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

#### Inland Surface Waters

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

### 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).

Equilon Enterprises, LLC Mormon Island Marine Terminal

#### Maximum Daily Effluent Limitation (MDEL)

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

#### Median

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

#### Method Detection Limit (MDL)

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

#### Minimum Level (ML)

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

#### Mixing Zone

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

#### Not Detected (ND)

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

#### Ocean Waters

The territorial marine waters of the State as defined by California law to the extent these waters are outside of enclosed bays, estuaries, and coastal lagoons. Discharges to ocean waters are regulated in accordance with the State Water Board's California Ocean Plan.

#### **Pollutant Minimization Program (PMP)**

PMP means waste minimization and pollution prevention actions that include, but are not limited to, product substitution, waste stream recycling, alternative waste management methods, and education of the public and businesses. The goal of the PMP shall be to reduce all potential sources of a priority pollutant(s) through pollutant minimization (control) strategies, including pollution prevention measures as appropriate, to maintain the effluent concentration at or below the water quality-based effluent limitation. Pollution prevention measures may be particularly appropriate for persistent bioaccumulative priority pollutants where there is evidence that beneficial uses are being impacted. The Regional Water Board may consider cost effectiveness when establishing the requirements of a PMP. The completion and

implementation of a Pollution Prevention Plan, if required pursuant to Water Code section 13263.3(d), shall be considered to fulfill the PMP requirements.

## Pollution Prevention

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

## **Reporting Level (RL)**

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

#### Standard Deviation ( $\sigma$ )

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

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

where:

x is the observed value;

 $\mu$  is the arithmetic mean of the observed values; and

n is the number of samples.

## TCDD Equivalents

In this Order, TCDD Equivalents means the sum of the concentrations of chlorinated Dibenzop-dioxins and chlorinated dibenzofurans multiplied by their Toxicity Equivalency Factor (TEF) and their Bioaccumulation Equivalency Factor (BEF). This is based on 40 CFR Part 132, Appendix F, Procedure 4, Tables 1 and 2.

## Dioxin-TEQ = $\Sigma$ (Cx x TEFx x BEFx)

where:

TEC = TCDD Equivalents concentration in the effluent or receiving water

Cx = concentration of dioxin or furan congener x

TEFx = TEF for congener x

BEFx = BEF for congener x

Dioxin or Furan Congener	Toxicity Equivalency Factor (TEF)	Bioaccumulative Equivalency Factor (BEF)	
2,3,7.8-TCDD	1.0	1.0	
1,2,3,7,8-PeCDD	1.0	0.9	
1,2,3,4,7,8-HxCDD	0.1	0.3	
1,2,3,6,7,8-HxCDD	0.1	0.1	
1,2,3,7,8,9-HxCDD	0.1	0.1	
1,2,3,4,6,7,8-HpCDD	0.01	0.05	
OCDD	0.0001	0.01	
2,3,7,8-TCDF	0.1	0.8	
1,2,3,7,8-PeCDF	0.05	0.2	
2,3,4,7,8-PeCDF	0.5	1.6	
1,2,3,4,7,8-HxCDF	0.1	0.08	
1,2,3,6,7,8-HxCDF	0.1	0.2	
1,2,3,7,8,9-HxCDF	0.1	0.6	
2,3,4,6,7,8-HxCDF	0.1	0.7	
1,2,3,4,6,7,8-HpCDF	0.01	0.01	
1,2,3,4,7,8,9-HpCDF	0.01	0.4	

TEFs and BEFs for dioxin congeners are listed in the table below.

## TEFs

TEFs are estimates of compound-specific toxicity relative to the toxicity of an index chemical (typically, TCDD). TEFs are the result of expert scientific judgment using all of the available data and taking into account uncertainties in the available data.

TEQ

Toxic equivalence (TEQ) is the product of the concentration of an individual DLC in an environmental mixture and the corresponding TCDD TEF for that compound.

### **Toxicity Reduction Evaluation (TRE)**

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

## ACRONYMS AND ABBREVIATIONS

AMEL B BAT Basin Plan	Average Monthly Effluent Limitation Background Concentration Best Available Technology Economically Achievable Water Quality Control Plan for the Coastal Watersheds of Los Angeles and Ventura Counties
BCT	Best Conventional Pollutant Control Technology
BMP	Best Management Practices
BMPPP	Best Management Practices Plan
BPJ	Best Professional Judgment
BOD	Biochemical Oxygen Demand 5-day @ 20 °C
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
Discharger	Equilon Enterprises, LLC
DMR DNQ	Discharge Monitoring Report Detected But Not Quantified
ELAP	California Department of Public Health Environmental
ELAF	Laboratory Accreditation Program
ELG	Effluent Limitations, Guidelines and Standards
Facility	Mormon Island Marine Terminal
	gallons per day
gpd 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>25</sub>	Concentration at which the organism is 20% inhibited
IC <sub>50</sub>	Concentration at which the organism is 50% inhibited
LA	Load Allocations
LOEC	Lowest Observed Effect Concentration
µg/L	micrograms per Liter
mg/L	milligrams per Liter
MDEL	Maximum Daily Effluent Limitation
MEC	Maximum Effluent Concentration
MGD	Million Gallons Per Day
ML	Minimum Level
MRP	Monitoring and Reporting Program
ND	Not Detected
NOEC	No Observable Effect Concentration
NPDES	National Pollutant Discharge Elimination System

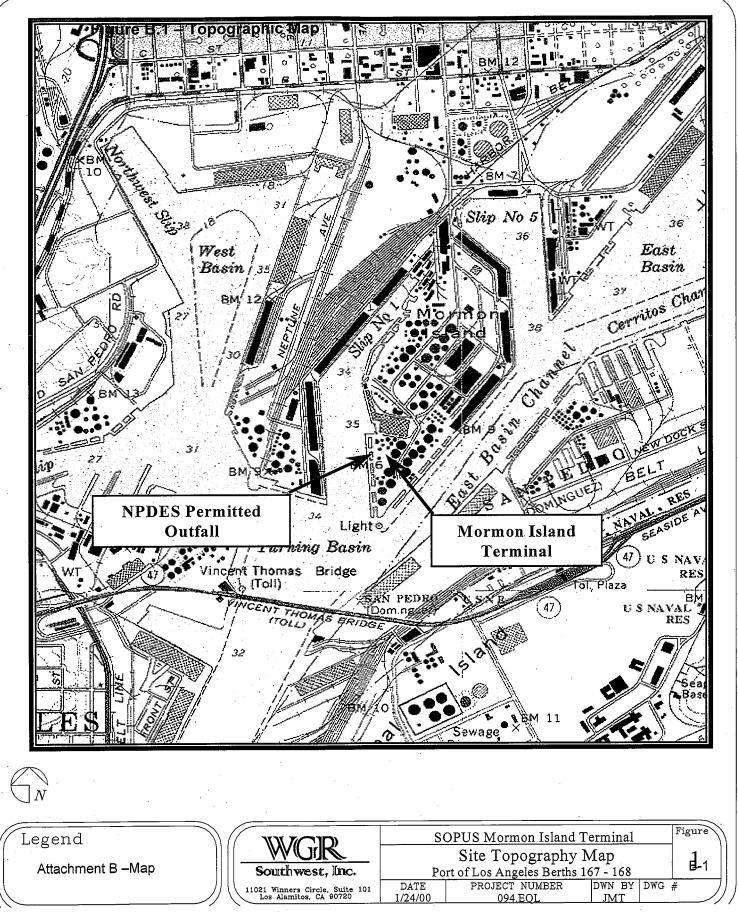
A-6

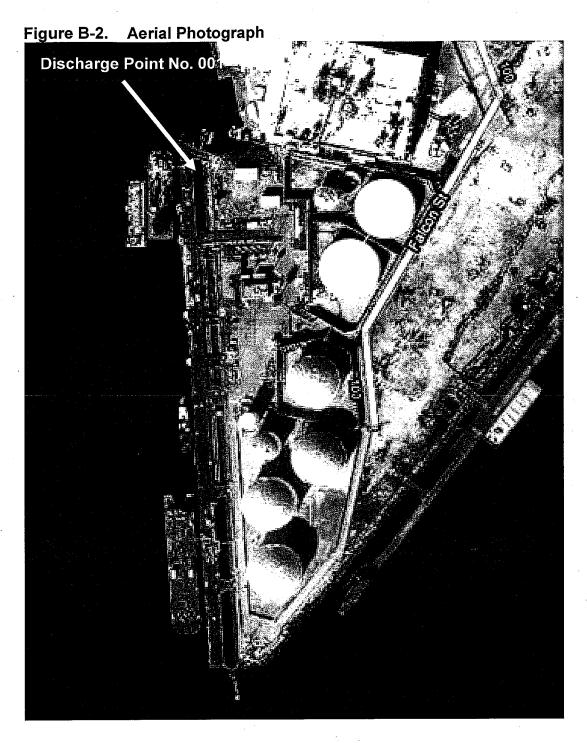
Equilon Enterprises, LLC Mormon Island Marine Terminal

NSPS	New Source Performance Standards
NTR	National Toxics Rule
OAL	Office of Administrative Law
PMEL	Proposed Maximum Daily Effluent Limitation
PMP	Pollutant Minimization Plan
POTW	Publicly Owned Treatment Works
QA	Quality Assurance
QA/QC	Quality Assurance/Quality Control
Ocean Plan	Water Quality Control Plan for Ocean Waters of California
Regional Water Board	California Regional Water Quality Control Board, Los Angeles
Regional Water Board	Region
RPA	Reasonable Potential Analysis
SCP	Spill Contingency Plan
SIP	State Implementation Policy (Policy for Implementation of
	Toxics Standards for Inland Surface Waters, Enclosed Bays,
	and Estuaries of California)
SMR	Self Monitoring Reports
State Water Board	California State Water Resources Control Board
SWPPP	Storm Water Pollution Prevention Plan
TAC	Test Acceptability Criteria
Thermal Plan	Water Quality Control Plan for Control of Temperature in the
meimair ian	Coastal and Interstate Water and Enclosed Bays and Estuaries
	of California
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
	Chronic Toxicity Unit
USEPA	United States Environmental Protection Agency
WDR	Waste Discharge Requirements
WET	Whole Effluent Toxicity
WLA	Waste Load Allocations
WQBELs	Water Quality-Based Effluent Limitations
WQS	Water Quality Standards
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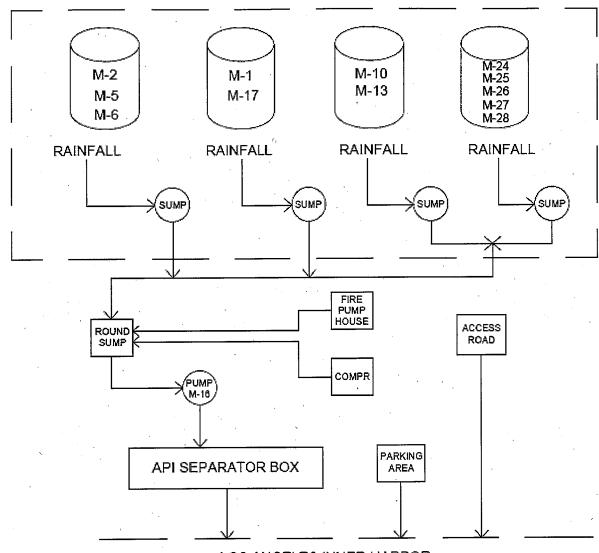
A-7

## ATTACHMENT B - MAP





## ATTACHMENT C - FLOW SCHEMATIC



LOS ANGELES INNER HARBOR

C-1

Equilon Enterprises, LLC Mormon Island Marine Terminal

#### ORDER NO. R4-2011-0097 NPDES NO. CA0003557

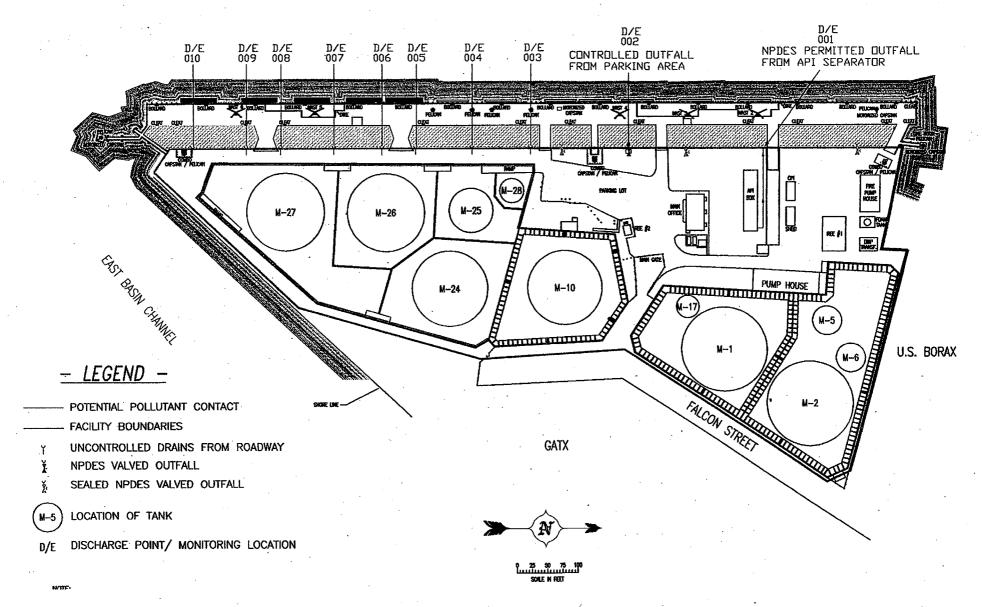


Figure C-2. Site Plan, Showing Discharge Points and Monitoring Locations

Attachment C – Wastewater Flow Schematic

C-1

# ATTACHMENT D – 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 Clean Water Act (CWA) and the California Water Code and is grounds for enforcement action, for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application [section 122.41(a)].
- 2. The Discharger shall comply with effluent standards or prohibitions established under Section 307(a) of the CWA for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions, even if this Order has not yet been modified to incorporate the requirement [section 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 [section 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 [section 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 [section 122.41(e)].

# E. Property Rights

**1.** This Order does not convey any property rights of any sort or any exclusive privileges [section 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 [section 122.5(c)].

# F. Inspection and Entry

The Discharger shall allow the Regional Water Board, State Water Board, United States Environmental Protection Agency (USEPA), and/or their authorized representatives (including an authorized contractor acting as their representative), upon the presentation of credentials and other documents, as may be required by law, to [section 122.41(i)] [Water Code section 13383]:

- Enter upon the Discharger's premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this Order [section 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 [section 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 [section 122.41(i)(3)]; and
- **4.** Sample or monitor, at reasonable times, for the purposes of assuring Order compliance or as otherwise authorized by the CWA or the Water Code, any substances or parameters at any location [section 122.41(i)(4)].

# G. Bypass

**1.** Definitions

- **a.** "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility [section 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 [section 122.41(m)(1)(ii)].
- Bypass not exceeding limitations. The Discharger may allow any bypass to occur which does not cause exceedances of effluent limitations, but only if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions listed in Standard Provisions – Permit Compliance I.G.3, I.G.4, and I.G.5 below [section 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 [section 122.41(m)(4)(i)]:
  - **a.** Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage [section 122.41(m)(4)(i)(A)];
  - **c.** 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 [section 122.41(m)(4)(i)(B)]; and
  - d. The Discharger submitted notice to the Regional Water Board as required under Standard Provisions – Permit Compliance I.G.5 below [section 122.41(m)(4)(i)(C)].
- 4. The Regional Water Board may approve an anticipated bypass, after considering its adverse effects, if the Regional Water Board determines that it will meet the three conditions listed in Standard Provisions Permit Compliance I.G.3 above [section 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 [section 122.41(m)(3)(i)].
  - b. Unanticipated bypass. The Discharger shall submit notice of an unanticipated bypass as required in Standard Provisions - Reporting V.E below (24-hour notice) [section 122.41(m)(3)(ii)].

# H. Upset

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

 Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of Standard Provisions – Permit Compliance I.H.2 below are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review [section 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 [section 122.41(n)(3)]:
  - **a.** An upset occurred and that the Discharger can identify the cause(s) of the upset [section 122.41(n)(3)(i)];
  - **b.** The permitted facility was, at the time, being properly operated [section 122.41(n)(3)(ii)];
  - **c.** The Discharger submitted notice of the upset as required in Standard Provisions Reporting V.E.2.b below (24-hour notice) [section 122.41(n)(3)(iii)]; and
  - **d.** The Discharger complied with any remedial measures required under Standard Provisions Permit Compliance I.C above [section 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 [section 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 [section 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 [section 122.41(b)].

# C. Transfers

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

# III. STANDARD PROVISIONS – MONITORING

**A.** Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity [section 122.41(j)(1)].

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B. Monitoring results must be conducted according to test procedures under Part 136 or, in the case of sludge use or disposal, approved under Part 136 unless otherwise specified in Part 503 unless other test procedures have been specified in this Order [section 122.41(j)(4) and section 122.44(i)(1)(iv)].

# IV. STANDARD PROVISIONS – RECORDS

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

**5.** The analytical techniques or methods used [section 122.41(j)(3)(v)]; and

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

# V. STANDARD PROVISIONS - REPORTING

#### A. Duty to Provide Information

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

# B. Signatory and Certification Requirements

- All applications, reports, or information submitted to the Regional Water Board, State Water Board, and/or USEPA shall be signed and certified in accordance with Standard Provisions – Reporting V.B.2, V.B.3, V.B.4, and V.B.5 below [section 122.41(k)].
- 2. All permit applications shall be signed 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. [section 122.22(a)(1)].
- 3. All reports required by this Order and other information requested by the Regional Water Board, State Water Board, or USEPA shall be signed by a person described in Standard Provisions Reporting V.B.2 above, or by a duly authorized representative of that person. A person is a duly authorized representative only if:
  - **a.** The authorization is made in writing by a person described in Standard Provisions Reporting V.B.2 above [section 122.22(b)(1)];
  - **b.** The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.) [section 122.22(b)(2)]; and
  - **c.** The written authorization is submitted to the Regional Water Board and State Water Board [section 122.22(b)(3)].
- **4.** If an authorization under Standard Provisions Reporting V.B.3 above is no longer accurate because a different individual or position has responsibility for the overall

operation of the facility, a new authorization satisfying the requirements of Standard Provisions – Reporting V.B.3 above must be submitted to the Regional Water Board and State Water Board prior to or together with any reports, information, or applications, to be signed by an authorized representative [section 122.22(c)].

**5.** Any person signing a document under Standard Provisions – Reporting V.B.2 or V.B.3 above shall make the following certification:

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

### C. Monitoring Reports

- **1.** Monitoring results shall be reported at the intervals specified in the Monitoring and Reporting Program (Attachment E) in this Order [section 122.22(l)(4)].
- 2. Monitoring results must be reported on a Discharge Monitoring Report (DMR) form or forms provided or specified by the Regional Water Board or State Water Board for reporting results of monitoring of sludge use or disposal practices [section 122.41(l)(4)(i)].
- **3.** If the Discharger monitors any pollutant more frequently than required by this Order using test procedures approved under Part 136 or, in the case of sludge use or disposal, approved under Part 136 unless otherwise specified in Part 503, or as specified in this Order, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the Regional Water Board [section 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 [section 122.41(I)(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 [section 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 [section 122.41(l)(6)(i)].

- **2.** The following shall be included as information that must be reported within 24 hours under this paragraph [section 122.41(I)(6)(ii)]:
  - **a.** Any unanticipated bypass that exceeds any effluent limitation in this Order [section 122.41(I)(6)(ii)(A)].
  - **b.** Any upset that exceeds any effluent limitation in this Order [section 122.41(l)(6)(ii)(B)].
- **3.** The Regional Water Board may waive the above-required written report under this provision on a case-by-case basis if an oral report has been received within 24 hours [section 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 [section 122.41(l)(1)]:

- The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in section 122.29(b) [section 122.41(l)(1)(i)]; or.
- **2.** The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are not subject to effluent limitations in this Order [section 122.41(l)(1)(i)].

The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations in this Order nor to notification requirements under section 122.42(a)(1) (see Additional Provisions—Notification Levels VII.A.1) [section 122.41(l)(1)(ii)].

# G. Anticipated Noncompliance

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

# H. Other Noncompliance

The Discharger shall report all instances of noncompliance not reported under Standard Provisions – Reporting V.C, V.D, and V.E above at the time monitoring reports are submitted. The reports shall contain the information listed in Standard Provision – Reporting V.E above [section 122.41(I)(7)].

#### I. Other Information

When the Discharger becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Regional Water Board, State Water Board, or USEPA, the Discharger shall promptly submit such facts or information [section 122.41(I)(8)].

# VI. STANDARD PROVISIONS – ENFORCEMENT

- A. The Regional Water Board is authorized to enforce the terms of this permit under several provisions of the Water Code, including, but not limited to, sections 13385, 13386, and 13387.
- B. 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 CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than \$1,000,000 and can be fined up to \$2,000,000 for second or subsequent convictions [section 122.41(a)(2)] [Water Code sections 13385 and 13387.

- C. 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 assessed II penalty for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed \$125,000 [section 122.41(a)(3)].
- **D.** The CWA provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than 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 [section 122.41(j)(5)].
- **E.** The CWA provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this 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 [section 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 [section 122.42(a)]:

- 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" [section 122.42(a)(1)]:
  - **a.** 100 micrograms per liter ( $\mu$ g/L) [section 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 [section 122.42(a)(1)(ii)];
  - **c.** Five (5) times the maximum concentration value reported for that pollutant in the Report of Waste Discharge [section 122.42(a)(1)(iii)]; or
  - **d.** The level established by the Regional Water Board in accordance with section 122.44(f) [section 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" [section 122.42(a)(2)]:
  - a. 500 micrograms per liter (µg/L) [section 122.42(a)(2)(i)];
  - **b.** 1 milligram per liter (mg/L) for antimony [section 122.42(a)(2)(ii)];
  - **c.** Ten (10) times the maximum concentration value reported for that pollutant in the Report of Waste Discharge [section 122.42(a)(2)(iii)]; or
  - **d.** The level established by the Regional Water Board in accordance with section 122.44(f) [section 122.42(a)(2)(iv)].

# ATTACHMENT E - MONITORING AND REPORTING PROGRAM (MRP NO. 1596)

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# ATTACHMENT E – MONITORING AND REPORTING PROGRAM (MRP) NO. 1596

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

# I. GENERAL MONITORING PROVISIONS

- A. Effluent sampling stations shall be established for Discharge Point No. 001 (latitude 33°45'20" N, longitude 118°16'03" W) 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. The 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 sections 136.3, 136.4, and 136.5 (revised March 12, 2007); or, where no methods are specified for a given pollutant, by methods approved by this Regional Water Board or the State Water Board. Laboratories analyzing effluent samples and receiving water samples shall be certified by the California Department of Public Health Environmental Laboratory Accreditation Program (ELAP) or approved by the Executive Officer and must include quality assurance/quality control (QA/QC) data in their reports. A copy of the laboratory certification shall be provided 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 United States Environmental Protection Agency (USEPA) guidelines or in the MRP, the constituent or parameter analyzed and the method or procedure used must be specified in the monitoring report.
- F. Each monitoring report must affirm in writing that "all analyses were conducted at a laboratory certified for such analyses by the Department of Public Health or approved by the Executive Officer and in accordance with current USEPA guideline procedures or as specified in this MRP".
- G. The monitoring reports shall specify the analytical method used, the Method Detection Limit (MDL), and the Minimum Level (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. "Detected, but Not Quantified (DNQ)" if results are greater than or equal to the laboratory's MDL but less than the ML; or,
- **3.** "Not-Detected (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 H) are those published by the State Water Board in the "Policy for the Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California", February 24, 2005.

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 H 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 H;
- 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 March 12, 2007, 1999);
- **3.** When the Discharger agrees to use an ML that is lower than that listed in Attachment H;
- **4.** When the Discharger demonstrates that the calibration standard matrix is sufficiently different from that used to establish the ML in Attachment H, 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 section 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. An annual summary of the QA activities shall be included in the Fourth Quarter Report. 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 average monthly and daily maximum limits 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 average monthly limit, the Discharger shall collect four additional samples at approximately equal intervals during the month, until compliance with the average monthly limit 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 an average monthly effluent limitation, the sampling frequency for that constituent shall be increased to weekly and shall continue at this level until compliance with the average monthly effluent limitation has been demonstrated. The Discharger shall provide for the approval of the Executive Officer a program to ensure future compliance with the average monthly limit.
- 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.
- **Q.** Laboratories analyzing monitoring samples shall be certified by the Department of Public Health, in accordance with the provision of Water Code section 13176, and must include quality assurance/quality control data with their reports.

# 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	EFF-001	Shall be located at the end of the last cell of the API separator, (latitude 33°45'19" N longitude 118°16'03" W) prior to entry into the Los Angeles Inner Harbor.
002	EFF-002	Shall be located at a location where a representative sample of storm water from Discharge Point-001 may be obtained prior to entry into the Los Angeles Inner Harbor.
003	EFF-003	A single sample location where a representative sample of storm water may be obtained for discharges through Discharge Point No. 003, prior to entry into the Los Angeles Inner Harbor.
004	EFF-004	A single sample location where a representative sample of storm water may be obtained for discharges through Discharge Point No. 004, prior to entry into the Los Angeles Inner Harbor.
005	EFF-005	A single sample location where a representative sample of storm water may be obtained for discharges through Discharge Point No. 005, prior to entry into the Los Angeles Inner Harbor.
006	EFF-006	A single sample location where a representative sample of storm water may be obtained for discharges through Discharge Point No. 006, prior to entry into the Los Angeles Inner Harbor.
007	EFF-007	A single sample location where a representative sample of storm water may be obtained for discharges through Discharge Point No. 007, prior to entry into the Los Angeles Inner Harbor.
008	EFF-008	A single sample location where a representative sample of storm water may be obtained for discharges through Discharge Point No. 008, prior to entry into the Los Angeles Inner Harbor.
009	EFF-009	A single sample location where a representative sample of storm water may be obtained for discharges through Discharge Point No. 009, prior to entry into the Los Angeles Inner Harbor.

Table E-1.	Monitoring	Locations
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010	EFF-010	A single sample location where a representative sample of storm water may be obtained for discharges through Discharge Point No. 010, prior to entry into the Los Angeles Inner Harbor.
	RSW-001	Shall be located more than 100 feet from the point of discharge at Discharge Point No. 001 and close to the southern seaward end of the dock.

# **III. INFLUENT MONITORING REQUIREMENTS**

Not Applicable

# IV. EFFLUENT MONITORING REQUIREMENTS

# A. Monitoring Location EFF-001

**1.** The Discharger shall monitor storm water from the last cell of the API Separator Box (EFF-001) as follows.

Parameter	Units	Sample	Minimum Sampling	<b>Required Analytical</b>		
Flow	gal/day	Measured	1/Discharge Event <sup>1</sup>	2		
Conventional Pollutants						
рН	s.u.	Grab	1/Discharge Event <sup>1</sup>	2		
Biochemical Oxygen Demand	mg/L	Grab	1/Discharge Event <sup>1</sup>	2		
Oil and Grease	mg/L	Grab	1/Discharge Event <sup>1</sup>	2		
Total Suspended Solids (TSS)	mg/L	Grab	1/Discharge Event <sup>1</sup>	2		
Total Coliform	MPN/1000	Grab	1/Discharge Event <sup>1</sup>	2		
Fecal Coliform	MPN/1000	Grab	1/Discharge Event <sup>1</sup>	2		
Enterococcus	MPN/1000	Grab	1/Discharge Event <sup>1</sup>	2		
Priority Pollutants						
Arsenic, Total Recoverable	µg/L	Grab	1/Discharge Event <sup>1</sup>	2		
Chromium VI, Total Recoverable	μg/L	Grab	1/Discharge Event <sup>1</sup>	· 2		
Copper, Total Recoverable	µg/L	Grab	1/Discharge Event <sup>1</sup>	2.		
Lead, Total Recoverable	μg/L	Grab	1/Discharge Event <sup>1</sup>	2		
Silver, Total Recoverable	µg/L	Grab	1/Discharge Event <sup>1</sup>	2		
Zinc, Total Recoverable	µg/L	Grab	1/Discharge Event <sup>1</sup>	2		
Benzene	μg/L	Grab	1/Discharge Event <sup>1</sup>	2		
Ethylbenzene	μg/L	Grab	1/Discharge Event <sup>1</sup>	. 2 .		
Toluene	µg/L	Grab	1/Discharge Event <sup>1</sup>	2		
Remaining Priority Pollutants <sup>3</sup>	µg/L	Grab	1/Year	2		
TCDD Equivalents <sup>5</sup>	μg/L	Grab	1/Year <sup>4</sup>	2		
Non-Conventional Pollutants						
Electrical Conductivity @ 25 Deg C	µmhos/cm	Grab	1/Year⁴	2		
Turbidity	NTU	Grab	1/Discharge Event <sup>1</sup>	2		
Phenols	mg/L	Grab	1/Discharge Event <sup>1</sup>	2		
Sulfide, Total	mg/L	Grab	1/Discharge Event <sup>1</sup>	2		

# Table E-2. Effluent Monitoring at EFF-001

Parameter	Units	Sample	Minimum Sampling	<b>Required Analytical</b>
Temperature	• °F	Grab	1/Discharge Event <sup>1</sup>	2
Total Organic Carbon (TOC)	µg/L	Grab	1/Year <sup>4</sup>	2
Total Petroleum Hydrocarbons	µg/L	Grab	1/Discharge Event <sup>1</sup>	2
Methyl Tertiary-Butyl Ether (MTBE)	µg/L	Grab	1/Discharge Event <sup>1</sup>	2
Tertiary butyl alcohol (TBA)	µg/L	Grab	1/Discharge Event <sup>1</sup>	2
Xylenes, Total	µg/L	Grab	1/Discharge Event <sup>1</sup>	2
Total Ammonia	mg/L as N	Grab	1/Discharge Event1	2
Acute Toxicity	% Survival	Grab	1/Year <sup>4</sup>	2, 6

During periods of extended discharge, no more than one sample per month needs to be taken. Sampling shall be performed during the first hour of discharge. If, for safety reasons, a sample cannot be obtained during the first hour of discharge, a sample shall be obtained at the first safe opportunity, and the reason for the delay shall be included in the report.

<sup>2</sup> Pollutants shall be analyzed using the analytical methods described in 40 CFR Part 136; for priority pollutants the methods must meet the lowest MLs specified in Attachment 4 of the SIP, where no methods are specified for a given pollutant, by methods approved by this Regional Water Board or the State Water Board. If more than one analytical test method is listed for a given parameter, the Discharger must select from the listed methods and corresponding Minimum Level.

<sup>3</sup> Priority Pollutants as defined by the CTR defined in Finding II.K of the Limitations and Discharge Requirements of this Order, and included as Attachment I. Annual samples shall be collected during the first hour of discharge from the first storm event of the wet season (October 1 – May 30). If no discharge occurs, no monitoring is required.

Monitoring is required only during years when a discharge occurs.

To determine compliance with effluent limitations or to conduct Reasonable Potential Analysis (RPA), this Order requires the Discharger to calculate and report dioxin-toxicity equivalencies (TEQs) using the following formula, where the toxicity equivalency factors (TEFs) and bioaccumulation equivalency factor (BEF). BEFs are as listed in Table below:

### $Dioxin-TEQ = \Sigma(C_x \times TEF_x \times BEF_x)$

where:

C<sub>x</sub> = concentration of, dioxin or furan congener x

 $TEF_X = TEF$  for congener x

 $BEF_X = BEF$  for congener x

#### Toxicity Equivalency Factors and Bioaccumulation Equivalency Factors

Congeners	Toxicity Equivalence Factor (TEF)	Bioaccumulation Equivalency Factor (BEF)
2,3,7,8 - tetra CDD	1.0	1.0
1,2,3,7,8 - penta CDD	1.0	0.9
1,2,3,4,7,8 - hexa CDD	0.1	0.3
1,2,3,6,7,8 - hexa CDD	0.1	0.1
1,2,3,7,8,9 - hexa CDD	0.1	0.1
1,2,3,4,6,7,8 - hepta CDD	0.01	0.05
Octa CDD	0.0001	0.01
2,3,7,8 - tetra CDF	0.1	0.8
1,2,3,7,8 - penta CDF	0.05	0.2 .
2,3,4,7,8 - penta CDF	0.5	1.6
1,2,3,4,7,8 - hexa CDF	0.1	0.08
1,2,3,6,7,8 - hexa CDF	0.1	0.2
1,2,3,7,8,9 - hexa CDF	0.1	0.6
2,3,4,6,7,8 - hexa CDF	0.1	0.7
1,2,3,4,6,7,8 - hepta CDFs	0.01	0.01
1,2,3,4,7,8,9 - hepta CDFs	0.01	0.4
Octa CDF	0.0001	0.02

Refer to section V., Whole Effluent Toxicity Testing Requirements.

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# B. Monitoring Location EFF-002 through EFF-010

- 1. Non-industrial storm water at EFF-002 shall be monitored according to Table E-3.
- 2. Analytical parameters for non-industrial storm water at EFF-003 through EFF-010 are also contained in Table E-3. The Discharger shall monitor one monitoring location from EFF-003 through EFF-010 consecutively beginning at EFF-003 at every sampling event for flow, Conventional Pollutants, and Non-Conventional Pollutants required in Table E-3. The Discharger shall monitor Priority Pollutants and TCDD Equivalents at EFF-003 according to the minimum sampling requirements in Table E-3.

Parameter	Units	Sample	Minimum Sampling	Required Analytical
Flow	gal/day	Estimated	1/Discharge Event <sup>1</sup>	2
Conventional Pollutants			· · · · · · · · · · · · · · · · · · ·	
pН	s.u.	Grab	2/Year <sup>4</sup>	2
Oil and Grease	mg/L	Grab	2/Year <sup>4</sup>	2
Total Suspended Solids	mg/L	Grab	2/Year <sup>4</sup>	2
Total Coliform	MPN/1000	Grab	2/Year <sup>4</sup>	2
Fecal Coliform	MPN/1000	Grab	2/Year <sup>4</sup>	2
Enterococcus	MPN/1000	Grab	2/Year <sup>4</sup>	2
Priority Pollutants		• · · <u>• · · • · · · · · · · · · · · · ·</u>		
Priority Pollutants <sup>3</sup>	µg/L	Grab	1/Year <sup>4</sup>	2
TCDD Equivalents⁵	µg/L	Grab	1/5-Years	2
Non-Conventional Polluta	ants	• • • • • • • • • • • • • • • • • • •	in a second s	
Electrical Conductivity @	µmhos/cm	Grab	2/Year <sup>4</sup>	2
Turbidity	NTU	Grab	2/Year <sup>4</sup>	2
Phenols	mg/L	Grab	2/Year <sup>4</sup>	2
Sulfide, Total	mg/L	Grab	2/Year <sup>4</sup>	2
Temperature	°F	Grab	2/Year <sup>4</sup>	2
Total Organic Carbon	µg/L	Grab	2/Year <sup>4</sup>	2
Total Petroleum	µg/L	Grab	2/Year <sup>4</sup>	2
Methyl Tertiary-Butyl	μg/L	Grab	2/Year <sup>4</sup>	2.
Tertiary butyl alcohol	µg/L	Grab	2/Year <sup>4</sup>	2
Xylenes, Total	µg/L	Grab	2/Year⁴	2

#### Table E-3. Effluent Monitoring at EFF-002 through EFF-010

During periods of extended discharge, no more than one sample per month needs to be taken. Sampling shall be performed during the first hour of discharge. If, for safety reasons, a sample cannot be obtained during the first hour of discharge, a sample shall be obtained at the first safe opportunity, and the reason for the delay shall be included in the report.

<sup>2</sup> Pollutants shall be analyzed using the analytical methods described in 40 CFR Part 136; for priority pollutants the methods must meet the lowest MLs specified in Attachment 4 of the SIP, where no methods are specified for a given pollutant, by methods approved by this Regional Water Board or the State Water Board. If more than one analytical test method is listed for a given parameter, the Discharger must select from the listed methods and corresponding Minimum Level.

<sup>3</sup> Priority Pollutants as defined by the CTR defined in Finding II.K of the Limitations and Discharge Requirements of this Order, and included as Attachment I. Annual samples shall be collected during the first hour of discharge from the first storm event of the wet season (October 1 – May 30). If no discharge occurs, no monitoring is required.

<sup>4</sup> Monitoring is required only during years when a discharge occurs.

<sup>5</sup> To determine compliance with effluent limitations or to conduct Reasonable Potential Analysis (RPA), this Order requires the Discharger to calculate and report dioxin-toxicity equivalencies (TEQs) using the following formula, where the toxicity equivalency factors (TEFs) and bioaccumulation equivalency factor (BEF). BEFs are as listed in Table below:

$$Dioxin-TEQ = \Sigma(C_x \times TEF_x \times BEF_x)$$

where:

 $C_X$  = concentration of, dioxin or furan congener x

 $TEF_X = TEF$  for congener x

 $BEF_X = BEF$  for congener x

#### Toxicity Equivalency Factors and Bioaccumulation Equivalency Factors

Congeners	Toxicity Equivalence Factor (TEF)	Bioaccumulation Equivalency Factor (BEF)
2,3,7,8 - tetra CDD	1.0	1.0
1,2,3,7,8 - penta CDD	1.0	0.9
1,2,3,4,7,8 - hexa CDD	0.1	0.3
1,2,3,6,7,8 - hexa CDD	0.1	0.1
1,2,3,7,8,9 - hexa CDD	0.1	0.1
1,2,3,4,6,7,8 - hepta CDD	0.01	0.05
Octa CDD	0.0001	0.01
2,3,7,8 - tetra CDF	0.1	0.8
1,2,3,7,8 - penta CDF	0.05	0.2
2,3,4,7,8 - penta CDF	0.5	1.6
1,2,3,4,7,8 - hexa CDF	0.1	0.08
1,2,3,6,7,8 - hexa CDF	0.1	0.2 -
1,2,3,7,8,9 - hexa CDF	0.1	0.6
2,3,4,6,7,8 - hexa CDF	0.1	0.7
1,2,3,4,6,7,8 - hepta CDFs	0.01	0.01
1,2,3,4,7,8,9 - hepta CDFs	0.01	0.4
Octa CDF	0.0001	0.02

# V. WHOLE EFFLUENT TOXICITY TESTING REQUIREMENTS

#### A. Acute Toxicity

#### 1. Definition of 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 96hour static or continuous flow bioassay tests shall be at least 90%, and
- **b.** No single test shall produce less than 70% survival.

# 2. Acute Toxicity Effluent Monitoring Program

a. Method. The Discharger shall conduct acute toxicity tests (96-hour static renewal toxicity tests) on effluent 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. Effluent samples shall be collected after all treatment processes and before discharge to the receiving water.

- **b.** Test Species. The fathead minnow, *Pimephales promelas* (Acute Toxicity Test Method 2000.0), 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. However, if the salinity of the receiving water is between 1 to 32 parts per thousand (ppt), the Discharger may have the option of using the inland silverside, *Menidia beryllina* (Acute Toxicity Test Method 2006.0), instead of the topsmelt. The method for topsmelt (Larval Survival and Growth Test Method 1006.0) is found in USEPA's *Short-term Methods for Estimating the Chronic Toxicity of Effluent and Receiving Waters to West Coast Marine and Estuarine Organisms*, *First Edition, August 1995* (EPA/600/R-95/136).
- **c.** Alternate Reporting. For the acute toxicity testing with topsmelt, the Discharger may elect to report the results or endpoint from the first 96 hours of the chronic toxicity test as the results of the acute toxicity test, using USEPA's August 1995 method (EPA/600/R-95/136) to conduct the chronic toxicity test.
- d. Acute Toxicity Accelerated Monitoring. If either of the above requirements (sections 1.a and 1.b) is not met, the Discharger shall conduct six additional tests, approximately every 2 weeks, over a 12-week period (or over the next six storm events for storm water monitoring). The Discharger shall ensure that they receive results of a failing toxicity test within 24 hours of the close of the test and the additional tests shall begin within 5 business days of the receipt of the result. If the additional tests indicate compliance with the toxicity limitation, the Discharger may resume regular testing.

#### e. Toxicity Identification Evaluation

- i. If the results of any two of the six accelerated tests are less than 90% survival, then the Discharger shall immediately begin a Toxicity Identification Evaluation (TIE) and implement the Initial Investigation Toxicity Reduction Evaluation (TRE) workplan. The TIE shall include all reasonable steps to identify the sources of toxicity. Once the sources are identified, the Discharger shall take all reasonable steps to reduce toxicity to meet the objective.
- ii. If the initial test and any of the additional six acute toxicity bioassay tests results are less than 70% survival, the Discharger shall immediately begin a TIE and implement Initial Investigation TRE workplan. Once the sources are identified the Discharger shall take all reasonable steps to reduce toxicity to meet the requirements.

# **B.** 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.

# C. Preparation of an Initial Investigation TRE Workplan

The Discharger shall prepare and submit a copy of the Discharger's initial investigation TRE workplan to the Executive Officer of the Regional Water Board for approval within **90 days** of the effective date of this permit. If the Executive Officer does not disapprove the workplan within 60 days, the workplan shall become effective. The Discharger shall use USEPA manual EPA/600/2-88/070 (industrial) as guidance. This workplan shall describe the steps the Discharger intends to follow if 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 and sources of toxicity, effluent variability, and treatment system efficiency.
- **2.** A description of the Facility's methods of maximizing in-house treatment efficiency and good housekeeping practices, and a list of all chemicals used in the operation of the facility; and,
- **3.** If a TIE is necessary, an indication of the person who would conduct the TIEs (i.e., an in-house expert or an outside contractor). See MRP Section V.D.3. for guidance manuals.

# D. Steps in TRE and TIE Procedures

- If results of the implementation of the facility's initial investigation TRE workplan indicate the need to continue the TRE/TIE, the Discharger shall expeditiously develop a more detailed TRE workplan for submittal to the Executive Officer within 30 days of completion of the initial investigation TRE. The detailed workplan shall 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 and employment of all reasonable efforts using currently available TIE methodologies. The objective of the TIE shall be 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 compliance with those requirements 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 (six consecutive chronic toxicity test results are less than or equal to 1.0 TUc or six consecutive acute toxicity test results are greater than 90% survival).

- The Discharger shall initiate a TIE as part of the TRE process to identify the cause(s) of toxicity. The Discharger shall use the USEPA acute manual, chronic manual, 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.
- **4.** 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.
- **5.** Toxicity tests conducted as part of a TRE/TIE may also be used for compliance determination, if appropriate.

6. The Regional Water 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 Regional Water Board will be based, in part, on the Discharger's actions and efforts to identify and control or reduce sources of consistent toxicity.

# E. Ammonia Removal

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

# F. Reporting

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 and as TU<sub>c</sub> for chronic toxicity test results with the self monitoring reports (SMR) for the month in which the test is conducted. 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. If an initial investigation indicates the source of toxicity and accelerated testing is unnecessary, pursuant to section V.A.2.d., then

those results also shall be submitted with the SMR for the period in which the investigation occurred.

- 1. The full report shall be submitted on or before the end of the month in which the SMR is submitted.
- 2. 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 or chronic toxicity limit or trigger; and (4) the printout of the ToxCalc or CETIS (Comprehensive Environmental Toxicity Information System) program results.
- **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.**  $TU_c$  values  $\left(TU_c = \frac{100}{NOEC}\right)$ ;
  - **h.** Mean percent mortality (+standard deviation) after 96 hours in 100% effluent (if applicable);
  - i. NOEC and LOEC values for reference toxicant test(s);
  - j. IC25 value for reference toxicant test(s);
  - **k.** Any applicable charts; and
  - I. 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 or trigger 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

#### A. Monitoring Location RSW-001

**1.** The Discharger shall monitor the Los Angeles Inner Harbor at monitoring location RSW-001 as follows:

Table E-4. Receiving Water Monitoring Requirements at Monitoring Location R3W-001					
Parameter	Units	Sample Type	Minimum Sampling	<b>Required Analytical</b>	
pН	standard units	Grab	<sup>·</sup> 1/Year <sup>3</sup>	1	
Priority Pollutants <sup>2,4</sup>	µg/L	Grab	1/Year <sup>3</sup>	1	
Salinity	ppt (parts per thousand)	Grab	1/Year <sup>3</sup>	1	
Total Ammonia	mg/L as N	Grab	1/Year <sup>3</sup>	1	

# Table E-4. Receiving Water Monitoring Requirements at Monitoring Location RSW-001

Pollutants shall be analyzed using the analytical methods described in 40 CFR Part 136; for priority pollutants the methods must meet the lowest MLs specified in Attachment 4 of the SIP, where no methods are specified for a given pollutant, by methods approved by this Regional Water Board or the State Water Board. If more than one analytical test method is listed for a given parameter, the Discharger must select from the listed methods and corresponding Minimum Level.

<sup>2</sup> Priority Pollutants as defined by the CTR defined in Finding II.K of the Limitations and Discharge Requirements of this Order, and included as Attachment I. Annual samples shall be collected during the first hour of discharge from the first storm event of the wet season (October 1 – May 30). If no discharge occurs, no monitoring is required. In lieu of a meter, flow at Discharge Point No. 001 may be estimated.

<sup>3</sup> Monitoring is only required during years in which a discharge occurred.

<sup>4</sup> To determine compliance with effluent limitations or to conduct Reasonable Potential Analysis (RPA), this Order requires the Discharger to calculate and report dioxin-toxicity equivalencies (TEQs) using the following formula, where the toxicity equivalency factors (TEFs) and bioaccumulation equivalency factor (BEF). BEFs are as listed in Table below:

$$Dioxin-TEQ = \Sigma(C_x \times TEF_x \times BEF_x)$$

where:

C<sub>x</sub> = concentration of, dioxin or furan congener x

 $TEF_X = TEF$  for congener x

 $BEF_X = BEF$  for congener x

#### Toxicity Equivalency Factors and Bioaccumulation Equivalency Factors

Congeners	Toxicity Equivalence Factor (TEF)	Bioaccumulation Equivalency Factor (BEF)
2,3,7,8 - tetra CDD	1.0	1.0
1,2,3,7,8 - penta CDD	1.0	0.9
1,2,3,4,7,8 - hexa CDD	0.1	0.3
1,2,3,6,7,8 - hexa CDD	0.1	0.1

Congeners	Toxicity Equivalence Factor (TEF)	Bioaccumulation Equivalency Factor (BEF)
1,2,3,7,8,9 - hexa CDD	0.1	0.1
1,2,3,4,6,7,8 - hepta CDD	0.01	0.05
Octa CDD	0.0001	0.01
2,3,7,8 - tetra CDF	0.1	0.8
1,2,3,7,8 - penta CDF	0.05	0.2
2,3,4,7,8 - penta CDF	0.5	1.6
1,2,3,4,7,8 - hexa CDF	0.1	0.08
1,2,3,6,7,8 - hexa CDF	0.1	0.2
1,2,3,7,8,9 - hexa CDF	0.1	0.6
2,3,4,6,7,8 - hexa CDF	0.1	0.7
1,2,3,4,6,7,8 - hepta CDFs	0.01	. 0.01
1,2,3,4,7,8,9 - hepta CDFs	0.01	0.4
Octa CDF	0.0001	0.02

# IX. OTHER MONITORING REQUIREMENTS

# A. Storm Water Monitoring

- **1. Rainfall Monitoring.** The Discharger shall measure and record the rainfall on each day of the month. This information shall be included in the monitoring report for that month.
- 2. Visual Observation. The Discharger shall make visual observations of all storm water 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 1-hour, or the intermittent discharge of storm water for a minimum of 3 hours in a 12-hour period.

# B. Storm Water Pollution Prevention Plan (SWPPP), Best Management Practices (BMP) Plan, and Spill Prevention Control and Countermeasure (SPCC) Plan Status and Effectiveness Report

- **1.** As required under Special Provision VI.C.3 of this Order, the Discharger shall submit an updated SWPPP, BMP Plan, and SPCC Plan to the Executive Officer of the Regional Water Board for approval within 90 days of the effective date of this permit.
- 2. Annually the Discharger shall report the status of the implementation and the effectiveness of the SWPPP, BMP Plan, and SPCC Plan Status required under Special Provision VI.C.3 of this Order. The SWPPP, BMP Plan, and SPCC Status shall be reviewed at a minimum once per year and updated as needed to ensure all actual or potential sources of pollutants in wastewater and storm water discharged from the Facility are addressed in the SWPPP, BMP Plan, and SPCC Plan Status. All changes or revisions to the SWPPP, BMP Plan, and SPCC Plan Status will be summarized annually in the Fourth Quarter SMR.

# 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.
- 5. The Discharger shall report the results of acute and chronic toxicity testing, TRE and TIE as required in the Attachment E, Monitoring and Reporting, Section V.F.

# 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 SMRs using the State Water Board's California Integrated Water Quality System (CIWQS) Program Web site (http://www.waterboards.ca.gov/ciwqs/index.html). Until such notification is given, the Discharger shall submit hard copy SMRs. The CIWQS Web site will provide additional directions for SMR submittal in the event there will be service interruption for electronic submittal.
- 2. The Discharger shall report in the SMR the results for all monitoring specified in this MRP under sections III through IX. The Discharger shall submit quarterly and annual SMRs including the results of all required monitoring using USEPA-approved test methods or other test methods specified in this Order. If the Discharger monitors any pollutant more frequently than required by this Order, the results of this monitoring shall be included in the calculations and reporting of the data submitted in the SMR.
- **3.** Monitoring periods and reporting for all required monitoring shall be completed according to the following schedule:

Sampling Frequency	Monitoring Period Begins On	Monitoring Period	SMR Due Date
1/Day	July 2, 2011	(Midnight through 11:59 PM) or any 24-hour period that reasonably represents a calendar day for purposes of sampling.	<ul> <li>May 1</li> <li>August 1</li> <li>November 1</li> <li>February 1</li> </ul>
1/Discharge Event	July 2, 2011	January 1 through March 31 April 1 through June 30 July 1 through September 30 October 1 through December 31	<ul> <li>May 1</li> <li>August 1</li> <li>November 1</li> <li>February 1</li> </ul>
1/Year And 2/Year	July 2, 2011	January 1 through December 31	• February 1
1/5-Year	July 2, 2011	Permit term	<ul> <li>May 1</li> <li>August 1</li> <li>November 1</li> <li>February 1</li> </ul>

 Table E-5.
 Monitoring Periods and Reporting Schedule

- Reporting Protocols. The Discharger shall report with each sample result the applicable reported ML and the current MDL, as determined by the procedure in Part 136.
- **5.** The Discharger shall report the results of analytical determinations for the presence of chemical constituents in a sample using the following reporting protocols:
  - **a.** Sample results greater than or equal to the reported ML shall be reported as measured by the laboratory (i.e., the measured chemical concentration in the sample).
  - **b.** Sample results less than the RL, but greater than or equal to the laboratory's MDL, shall be reported as "Detected, but Not Quantified," or DNQ. The estimated chemical concentration of the sample shall also be reported.

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

- **c.** Sample results less than the laboratory's MDL shall be reported as "Not Detected," or ND.
- **d.** Dischargers are to instruct laboratories to establish calibration standards so that the ML value (or its equivalent if there is differential treatment of samples relative to calibration standards) is the lowest calibration standard. At no time is the

Discharger to use analytical data derived from extrapolation beyond the lowest point of the calibration curve.

- 6. Compliance Determination. Compliance with effluent limitations for priority pollutants shall be determined using sample reporting protocols defined above and Attachment A of this Order. For purposes of reporting and administrative enforcement by the Regional and State Water Boards, the Discharger shall be deemed out of compliance with effluent limitations if the concentration of the priority pollutant in the monitoring sample is greater than the effluent limitation and greater than or equal to the reporting level (RL).
- 7. Multiple Sample Data. When determining compliance with an AMEL or MDEL for priority pollutants and more than one sample result is available, the Discharger shall compute the arithmetic mean unless the data set contains one or more reported determinations of "Detected, but Not Quantified" (DNQ) or "Not Detected" (ND). In those cases, the Discharger shall compute the median in place of the arithmetic mean in accordance with the following procedure:
  - **a.** The data set shall be ranked from low to high, ranking the reported ND determinations lowest, DNQ determinations next, followed by quantified values (if any). The order of the individual ND or DNQ determinations is unimportant.
  - **b.** The median value of the data set shall be determined. If the data set has an odd number of data points, then the median is the middle value. If the data set has an even number of data points, then the median is the average of the two values around the middle unless one or both of the points are ND or DNQ, in which case the median value shall be the lower of the two data points where DNQ is lower than a value and ND is lower than DNQ.
- 8. The Discharger shall submit SMRs in accordance with the following requirements:
  - a. The Discharger shall arrange all reported data in a tabular format. The data shall be summarized to clearly illustrate whether the facility is operating in compliance with interim and/or final effluent limitations. The Discharger is not required to duplicate the submittal of data that is entered in a tabular format within CIWQS. When electronic submittal of data is required and CIWQS does not provide for entry into a tabular format within the system, the Discharger shall electronically submit the data in a tabular format as an attachment.
  - **b.** The Discharger shall attach a cover letter to the SMR. The information contained in the cover letter shall clearly identify violations of the WDRs; discuss corrective actions taken or planned; and the proposed time schedule for corrective actions. Identified violations must include a description of the requirement that was violated and a description of the violation.

**c.** SMRs must be submitted to the Regional Water Board, signed and certified as required by the Standard Provisions (Attachment D), to the address listed below:

# 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

Within 90 days of the effective date of this permit, the Discharger is required to submit the following to the Regional Water Board:

1. Initial Investigation TRE workplan

**2.** Updated SWPPP

3. Updated BMP Plan

4. Spill Contingency Plan

# ATTACHMENT F – FACT SHEET

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# ATTACHMENT F - FACT SHEET

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

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

# I. PERMIT INFORMATION

The following table summarizes administrative information related to the facility.

Table F-1. Facility information		
WDID	4B192108009	
Discharger	Equilon Enterprises, LLC	
Name of Facility	Mormon Island Marine Terminal	
· · · ·	Berth 167, 168, and 169	
Facility Address	Wilmington, CA 90744	
	Los Angeles County	
Facility Contact, Title and Phone	Rick Roper, Operations Supervisor, 310-816-2307	
Authorized Person to Sign and Submit Reports	Carlton Jordan, Environmental Staff Engineer, 310-816-2060	
Mailing Address	20945 South Wilmington Avenue, Carson, CA 90810-1039	
Billing Address	SAME	
Type of Facility	Bulk Petroleum Storage and Distribution Facility	
Major or Minor Facility	Minor	
Threat to Water Quality	Category 3	
Complexity	Category C	
Pretreatment Program	Not Applicable	
Reclamation Requirements	Not Applicable	
Facility Permitted Flow	0.216 million gallons per day (MGD) for Discharge Point 001, Storm water runoff only for Discharge Point Nos. 002 to 010	
Facility Design Flow	0.216 MGD for Discharge Point 001, Storm water runoff only for Discharge Point Nos. 002 to 010	
Watershed	Los Angeles/Long Beach Harbor	
Receiving Water	Los Angeles Inner Harbor	
Receiving Water Type	Coastal Water	

### Table F-1. Facility Information

Equilon Enterprises, LLC (hereinafter Discharger) is the owner and operator of Mormon Island Marine Terminal (hereinafter Facility), a bulk petroleum storage, loading, and distribution facility.

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

- **A.** The Facility discharges storm water runoff to the Los Angeles Inner Harbor, a water of the United States, and is currently regulated by Order No. R4-2006-0047, which was adopted on May 11, 2006, with revisions on November 6, 2006, and June 14, 2006, and expires on April 10, 2011. The terms and conditions of the current Order have been automatically continued and remain in effect until new Waste Discharge Requirements (WDRs) and National Discharge Elimination System (NPDES) permit are adopted pursuant to this Order.
- **B.** The Discharger filed a report of waste discharge (ROWD) and submitted an application for renewal of its WDRs and NPDES permit on October 11, 2010. Supplemental information was received on November 9, 2010. A site visit was conducted on August 31, 2010, to observe operations and collect additional data to develop permit limitations and conditions.

# II. FACILITY DESCRIPTION

The Discharger owns and operates a bulk petroleum storage and distribution facility known as the Mormon Island Marine Terminal. Most products are received via pipeline from area refineries, the Kinder Morgan Harbor Terminal, and ethanol is received by rail car. Approximately 95 percent of the product off-loaded from vessels is pumped directly to the Discharger's Carson Terminal, located in Carson, CA. The fuel that is stored in the on-site tank farm is eventually pumped to the Carson Terminal for distribution. The Facility consists of 12 above ground storage tanks, an unloading dock, associated pumping/piping facilities, an administrative building, roadways, and a parking area. Materials stored on-site consist of gasoline, jet fuel, fuel additives, and contaminated wastewater.

# A. Description of Wastewater and Biosolids Treatment or Controls

The Facility is currently permitted to discharge up to 0.216 MGD of storm water runoff from the tank farm area. During wet weather, storm water runoff from tank farm areas is impounded and pumped to pass through an oil-water separator before being discharged into the Los Angeles Inner Harbor, a water of the United States, near Berth 167, via Discharge Point No. 001.

Storm water accumulates within the secondary containment areas of the tank farms, on the tank roofs, piping manifolds and in parking lots. All impounded storm water at the Facility is allowed to dissipate by evaporation and infiltration. When the amount of storm water at the Facility exceeds the secondary containment capacity of the tank farm or affects the Facility's operation, the storm water is removed via two methods. The preferred method of removing storm water from the Facility is to discharge the storm water to the City of Los Angeles sanitary sewer in accordance with the Industrial Wastewater User No. IU0131121, Permit No. W-494537. Ship ballast water, storage tank rinse water and pipeline displacement wastes are also discharged to the sanitary sewer. The second method is to discharge the storm water to the Inner Harbor under

the NPDES Permit No. CA0003557, CI-1596. Storm water accumulated in the tank farm is impounded until visual observations can be made. Accumulated storm water in the tank farm is then transferred to the sump by the opening and closing of valves on the levee wall.

Storm water that accumulates on the tank roofs is piped to a sump and then directed to the sanitary sewer system.

Storm water collected in secondary containment structures for piping manifolds is pumped to a wastewater storage tank (Tank M-25) and is subsequently treated by a contractor using portable equipment (e.g., air flotation oil-water separator followed by air stripping for VOC removal; carbon polishing, which is necessary to remove MTBE) and then discharged to the sanitary sewer.

The discharge described above is in the category of "Storm Water Associated with Industrial Activity" as defined by the California State General Industrial Storm Water NPDES Permit (CAS000001), which means the discharges from 1) any conveyance which is used for collecting and conveying storm water and which is directly related to manufacturing, processing, or raw materials storage areas at an industrial plant, and 2) material handling activities which include the storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, finished product, by-product, or waste product.

Storm water from areas located on plant lands separate from the plant's industrial activities, such as office buildings and accompanying parking lots as long as the drainage from the excluded areas is not mixed with storm water drained from the industrial areas, is termed as non-industrial storm water in this Order. Contaminants transport in non-industrial storm water must be controlled using best management practices developed in the Storm Water Pollution Prevention Plan (SWPPP) required in Attachment G and the Best Management Practices Plan (BMPP) required in section VI.C.3.b. of the Order. This permit also includes requirements to monitor non-industrial storm water of the facility, as described below.

Non-industrial storm water from the Facility's parking lot is contained by berms. Following visual inspection, retained storm water from the parking lot may be discharged through Discharge Point No. 002 to the Inner Harbor, provided an oil sheen or other undesirable characteristics are not observed. In the event that an oil sheen or other undesirable characteristics are observed, retained storm water from the parking lot is pumped to a wastewater storage tank, removed via a vacuum truck or discharged to the City of Los Angeles Sewer System. Eight additional non-industrial storm water discharge points (Discharge Point Nos. 003 through 010) are located outside the bermed area off an access road on the southern portion of the Facility.

Additionally, a pilot treatment unit has been installed in order to evaluate the effectiveness of filtration for treating storm water discharges. All filter effluent from the pilot unit is discharged under through the Discharger's industrial wastewater permit.

Two other waste streams are present at the Facility, but are not governed by the NPDES permit. Processed wastewaters (e.g., water drawn from storage tanks or pipeline line hydrotesting water) are collected in Tank M-25 (the discharge of tank hydrotest water to the Inner Harbor is authorized by NPDES Permit No. CAG674001). Contaminated groundwater from the Facility is collected in a storage tank (Tank M-17) and is treated by a contractor using portable equipment for discharge to the sanitary sewer system, or is hauled to Equilon's Carson Terminal facility or to an off-site hazardous waste treatment, storage and disposal facility.

The Report of Waste Discharge submitted by the Discharger listed a maximum flow of 0.216 million gallons per day (MGD) of storm water. That flow will be used to calculate mass-based effluent limitations for this Order.

#### B. Discharge Points and Receiving Waters

The Facility discharges up to 0.216 MGD of storm water runoff from the tank farm areas. The wastes flow is passed through an oil-water separator and then discharged through Discharge Point No. 001 (Latitude 33°45'21" North, Longitude 118°16'02" West) to the Los Angeles Inner Harbor, a water of the United States, located at a point near Berth 167.

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

No discharges of storm water occurred during the term of the previous permit from May 11, 2006 through April 11, 2011. Effluent limitations from Order No. R4-2006-0047 and monitoring data collected are shown below.

Denemeter	11	Effluent Limitation		Monitoring Data <sup>1</sup>	
Parameter	Units	Average Monthly	Maximum Daily	Highest Average Monthly Discharge	Highest Daily Discharge
Conventional Pollutants		·			
Biochemical Oxygen Demand	mg/L		30		
(BOD) (5-day @ 20 Deg. C)	lbs/day		54 <sup>2</sup>	·	
	mg/L		. 15		
Oil and Grease	lbs/day		27 <sup>2</sup>		
рН	s.u.		$6.5^3 - 8.5^4$		`
Total Quenended Colida (TCC)	mg/L		75		
Total Suspended Solids (TSS)	lbs/day	'	135 <sup>2</sup>		
Priority Pollutants					
Arsenic,	µg/L		59	·	
Total Recoverable	lbs/day		0.107 <sup>2</sup>		·

#### Table F-2. Historic Effluent Limitations and Monitoring Data for Discharge Point No. 001

Equilon Enterprises, LLC Mormon Island Marine Terminal

Devemoior	11:540	Effluent	Limitation	Monitoring Data <sup>1</sup>	
Parameter	Units	Average Monthly	Maximum Daily	Highest Average Monthly Discharge	Highest Daily Discharge
Chromium VI,	µg/L		1,100		
Total Recoverable	lbs/day		1.98 <sup>2</sup>		
Copper,	µg/L		5.8		
Total Recoverable	lbs/day		0.01 <sup>2</sup>		
Lead,	µg/L		14		
Total Recoverable	lbs/day		0.025 <sup>2</sup>		
Silver,	µg/L		1.9	·	
Total Recoverable	lbs/day		0.0035 <sup>2</sup>		
Zinc,	µg/L		90		
Total Recoverable	lbs/day		0.16 <sup>2</sup>		
D	µg/L		71	·	
Benzene	lbs/day	·	0.128 <sup>2</sup>		· ·
	µg/L		29,000	·	
Ethylbenzene	lbs/day		52 <sup>2</sup>		
<b>T</b> ala	µg/L		200,000	<b></b> · · · · ·	
Toluene	lbs/day		360 <sup>2</sup>		
Non-Conventional Pollutants		·	· · · · · · · · · · · · · · · · · · ·	<u> </u>	
Acute Toxicity	% Survival		5 .		
Dhenele	mg/L		1.0	:	
Phenols	lbs/day		1.8 <sup>2</sup>		
Temperature	°F		86		
Turbidity	NTU		75		

ND = Not Detected

<sup>1</sup> No discharge events occurred during the term of the previous Order and, therefore, no monitoring data was available.

<sup>2</sup> The mass emissions rate is based on a maximum flow of 216,000 gpd (0.216 MGD) and is calculated as follows: Flow (MGD) x Concentration (mg/L) x 8.34 (conversion factor) = lbs/day.

<sup>3</sup> Instantaneous minimum.

<sup>4</sup> Instantaneous maximum.

<sup>5</sup> The acute toxicity of the effluent shall be such that:

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

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# **D.** Compliance Summary

The Facility has not discharged during the term of Order No. R4-2006-0047 (May 11, 2006 through April 11, 2011), thus no violations of effluent limitations occurred during this period. The Discharger is subject to TSO R4-2006-0048, which establishes interim effluent limitations for arsenic and copper for Discharge Point No. 001. The Discharger has determined that treatment is necessary to meet the final effluent limitations for metals and has initiated a pilot study to determine effective treatment to be implemented at the Facility. A two stage CONTECH pilot treatment system was installed and became operational on January 15, 2007. Due to infrequent rainfall, the pilot treatment system has only been operated twice to treat storm water. The results of the second test indicated that the pilot treatment system effectively removed arsenic, lead, and zinc to levels below the current effluent limitations; however, it was not able to reduce copper concentrations to meet final effluent limitation. The Discharger is investigating the use of a three stage treatment system. Currently, the Facility has not established a time frame for implementing the treatment technology to meet the copper limitation.

#### E. Planned Changes

See section II.D. for a discussion regarding the potential implementation of a treatment system.

# 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

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

# B. California Environmental Quality Act (CEQA)

Under Water Code section 13389, this action to adopt an NPDES permit is exempt from the provisions of CEQA, Public Resources Code sections 21100 through 21177.

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

1. Water Quality Control Plans. The Regional Water Quality Control Board (Regional Water Board) adopted a *Water Quality Control Plan Los Angeles Region Basin Plan for the Coastal Watersheds of Los Angeles and Ventura Counties* (hereinafter Basin Plan) on June 13, 1994, 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, the Basin Plan implements State Water Resources Control Board (State Water Board) Resolution No. 88-63, which established state policy that all waters, with certain exceptions, should be considered suitable or potentially suitable for municipal or domestic supply. Beneficial uses applicable to the Los Angeles Inner Harbor are as follows:

Discharge Point No.	Receiving Water Name	Beneficial Use(s)
001 (Industrial Contact Storm Water)		Existing: Industrial service supply (IND), navigation (NAV), non- contact recreation (REC-2), commercial and sport
002 (Parking Lot)	Los Angeles Inner Harbor	fishing (COMM), marine habitat (MAR), preservation of rare and endangered species (RARE).
003 – 010 (Access Road)	. `	Potential: Water contact recreation (REC-1), shellfish harvesting (SHELL).

Table F-3.	Rasin	Plan	<b>Beneficial Uses</b>
I apie I -J.	Dasili	r iaii	Denenicial 03c3

- D. Thermal Plan. The State Water Board adopted a Water Quality Control Plan for Control of Temperature in the Coastal and Interstate Water and Enclosed Bays and Estuaries of California (Thermal Plan) on May 18, 1972, and amended this plan on September 18, 1975. This plan contains temperature objectives for surface waters. Requirements of this Order implement the Thermal Plan. Additionally, a white paper was 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. The white paper evaluated the optimum temperatures for steelhead, topsmelt, ghost shrimp, brown rock crab, jackknife clam, and blue mussel. A maximum effluent temperature limitation of 86°F was determined to be appropriate for protection of aquatic life and is included in this Order.
- E. Ammonia Basin Plan Amendment. The 1994 Basin Plan provided water quality objectives for ammonia to protect aquatic life in Tables 3-1 through 3-4. However, those ammonia objectives were revised on March 4, 2004, by the Regional Water Board with the adoption of Resolution No. 2004-022, Amendment to the Water Quality Plan for the Los Angeles Region to Update the Ammonia Objectives for Inland Surface Waters Not Characteristic of Freshwater (including enclosed bays, estuaries and wetlands) with the Beneficial Use designations for protection of "Aquatic Life". The ammonia Basin Plan amendment was approved by the State Water Board on July 22, 2004, Office of Administrative Law on September 14, 2004, and by USEPA on May 19, 2005. The amendment revised the Basin Plan by updating the ammonia objectives for inland surface waters not characteristic of freshwater such that they are consistent with USEPA's "Ambient Water Quality Criteria for Ammonia (Saltwater) 1989." The amendment revised the regulatory provisions of the Basin Plan by adding language to Chapter 3, "Water Quality Objectives."

For inland surface waters not characteristic of freshwater (including enclosed bays, estuaries, and wetlands), the objectives are a 4-day average concentration of unionized

ammonia of 0.035 mg/L, and a 1-hour average concentration of unionized ammonia of 0.233 mg/L. The objectives are fixed concentrations of unionized ammonia, independent of pH, temperature, or salinity. The amendment includes an implementation procedure to convert un-ionized ammonia objectives to total ammonia effluent limits. The amendment also simplifies the implementation procedures for translating ammonia objectives into effluent limits in situations where a mixing zone has been authorized by the Regional Water Board. Finally, the amendment revises the implementation procedure for determining saltwater, brackish or freshwater conditions, to be consistent with the proposed objectives. The objectives apply only to inland surface waters not characteristic of freshwater (including enclosed bays, estuaries and wetlands) and do not impact the Ammonia Water Quality Objectives for ocean waters contained in the California Ocean Plan.

- **F.** National Toxics Rule (NTR) and California Toxics Rule (CTR). USEPA promulgated the NTR on December 22, 1992, for 14 States including California. The NTR was later amended on May 4, 1995 and November 9, 1999. About forty criteria in the NTR applied in California. On May 18, 2000, USEPA adopted the CTR. The CTR promulgated new toxics criteria for California and, in addition, incorporated the previously adopted NTR criteria that were applicable in the state. The CTR was amended on February 13, 2001. These rules contain water quality criteria for priority pollutants.
- **G. State Implementation Policy**. On March 2, 2000, the State Water Board adopted the *Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California* (State Implementation Policy or SIP). The SIP became effective on April 28, 2000, with respect to the priority pollutant criteria promulgated for California by the USEPA through the NTR and to the priority pollutant objectives established by the Regional Water Board in the Basin Plan. The SIP became effective on May 18, 2000, with respect to the priority pollutant criteria promulgated by the USEPA through the CTR. The State Water Board adopted amendments to the SIP on February 24, 2005, that became effective on July 13, 2005. The SIP establishes implementation provisions for priority pollutant criteria and objectives and provisions for chronic toxicity control. Requirements of this Order implement the SIP.
- H. Alaska Rule. On March 30, 2000, USEPA revised its regulation that specifies when new and revised state and tribal water quality standards (WQS) become effective for CWA purposes (40 CFR § 131.21, 65 Fed. Reg. 24641 (April 27, 2000)). Under the revised regulation (also known as the Alaska rule), new and revised standards submitted to USEPA after May 30, 2000, must be approved by USEPA before being used for CWA purposes. The final rule also provides that standards already in effect and submitted to USEPA by May 30, 2000, may be used for CWA purposes, whether or not approved by USEPA.
- I. Antidegradation Policy. Section 131.12 requires that the state water quality standards include an antidegradation policy consistent with the federal policy. The State Water Board established California's antidegradation policy in State Water Board Resolution No. 68-16. Resolution No. 68-16 incorporates the federal antidegradation policy where the federal policy applies under federal law. Resolution No. 68-16 requires that existing

water quality be maintained unless degradation is justified based on specific findings. The Regional Water Board's Basin Plan implements, and incorporates by reference, both the State and federal antidegradation policies. The permitted discharge must be consistent with the antidegradation provision of section 131.12 and State Water Board Resolution No. 68-16.

**J. Anti-Backsliding Requirements**. Sections 402(o)(2) and 303(d)(4) of the CWA and federal regulations at title 40, Code of Federal Regulations<sup>1</sup> section 122.44(I) prohibit backsliding in NPDES permits. These anti-backsliding provisions require that effluent limitations in a reissued permit must be as stringent as those in the previous permit, with some exceptions in which limitations may be relaxed.

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

Section 303(d) of the CWA requires states to identify specific water bodies where water quality standards are not expected to be met after implementation of technology-based effluent limitations on point sources. For all 303(d)-listed water bodies and pollutants, the Regional Water Board plans to develop and adopt total maximum daily loads (TMDLs) that will specify waste load allocations (WLAs) for point sources and load allocations (LAs) for non-point sources, as appropriate.

The USEPA partially approved the State's 2010 303(d) list of impaired water bodies on November 12, 2010. Certain receiving waters in the Los Angeles watershed do not fully support beneficial uses and therefore have been classified as impaired on the 2006 303(d) list and have been scheduled for TMDL development. The 2010 State Water Board's California 303(d) List classifies the Los Angeles/Long Beach Inner Harbor and several water bodies within the Inner Harbor as impaired. These water bodies include Cabrillo Marina, Consolidated Slip, Fish Harbor, and Inner Cabrillo Beach Area. The pollutants of concern within the Los Angeles/Long Beach Inner Harbor include beach closures, benthic community effects, benzo(a)pyrene, chrysene, total recoverable copper, DDT, polychlorinated biphenyls (PCBs), sediment toxicity, and zinc. Additional pollutants of concern within the Cabrillo Marina, Consolidated Slip, Fish Harbor, and Inner Cabrillo Beach Area include: 2-methylnaphthalene, cadmium (sediment), chlordane (tissue and sediment), chromium (sediment), dieldrin, lead (sediment), mercury (sediment), phenanthrene, pyrene, and toxaphene (tissue). On July 1, 2004, the Regional Water Board adopted the Los Angeles Harbor Bacteria TMDL through Resolution No. 2004-011, On March 1, 2005, the USEPA approved the Regional Water Board's Los Angeles Harbor Bacteria TMDL.

The Los Angeles Harbor Bacteria TMDL Staff report for the Los Angeles Bacteria TMDL, Inner Cabrillo Beach and Main Ship Channel (Bacteria TMDL) identifies point sources that discharge directly to the Los Angeles Harbor, and includes a list of individual and general NPDES permits. The Staff Report indicates that discharges from individual and general industrial and construction storm water permits are not expected to be a significant source of bacteria, and therefore establishes WLAs of zero days of exceedance of the REC-1 water quality objectives for bacteria. Individual industrial

<sup>&</sup>lt;sup>1</sup> All further statutory references are to title 40 of the Code of Federal Regulations unless otherwise indicated.

storm water permits are not specified in the bacterial TMDL, however the Staff Report suggests that point source storm water discharges into the Inner Harbor contribute to exceedances of water quality criteria. Thus, based on the Staff Report and the applicable WLAs specified for other storm water permittees (the general industrial storm water permits), the TMDL has been applied in this Order.

#### L. Other Plans, Polices and Regulations

Not Applicable

# IV. RATIONALE FOR EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS

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

The list of pollutants of concern is based on constituents that are regulated in the Basin Plan or CTR and were detected in the effluent, as well as pollutants commonly associated with fueling operations, and/or for which a TMDL is established. The following pollutants are pollutants of concern as they are commonly associated with fueling operations: total petroleum hydrocarbons (TPH), total organic carbon (TOC), ethylbenzene, xylenes, methyltertiary-butyl ether (MTBE), and tertiary butyl alcohol (TBA). Turbidity, solids, oil and grease, BOD, settleable solids, and pH are common pollutants in storm water and are considered pollutants of concern as well. Further, Bacteria is listed as the pollutant of concern in this Order because of the requirements from Los Angeles Harbor Bacteria TMDL (R4-2004-011).

Generally, mass-based effluent limitations ensure that proper treatment, and not dilution, is employed to comply with the final effluent concentration limitations. However, Section 122.45(f)(1) 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 when mass limitations 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.

# A. Discharge Prohibitions

The discharge prohibitions are based on the requirements of the Basin Plan, State Water Board's plans and policies, the Water Code, and previous permit provisions, and

are consistent with the requirements set for other discharges regulated by NPDES permit to the Los Angeles Inner Harbor.

#### B. Technology-Based Effluent Limitations

#### 1. Scope and Authority

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

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

- **a.** Best practicable treatment control technology (BPT) represents 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) represents the control from existing industrial point sources of conventional pollutants including BOD, TSS, fecal coliform, pH, and oil and grease. 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) 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, BAT, BCT, and NSPS. Section 402(a)(1) of the CWA and section 125.3 of the Code of Federal Regulations authorize the use of 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 section 125.3.

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

Currently, no technology-based ELGs exist for bulk petroleum storage, loading, and transfer facilities. This Order includes technology-based effluent limitations based on BPJ in accordance with 40 CFR section 125.3. Effluent limitations for BOD, oil & grease, TSS, chromium VI, silver, zinc, benzene, toluene, acute toxicity, phenols and turbidity contained in Order No. R4-2006-0047 have been included for discharges of storm water runoff from the areas where industrial activities occur at Discharge Point No. 001. Numeric effluent limitations for storm water from the access roads and from the parking area through Discharge Point Nos. 002 to 010 have not been established, however to ensure that storm water from the industrial areas are not discharged through Discharge Point Nos. 002 through 010, these discharge points will be addressed within the Facility's SWPPP and BMPP, as discussed below. Table F-4 summarizes the technology-based effluent limitations for Discharge Point No. 001.

Order No. R4-2006-0047 requires the Discharger to develop and implement a SWPPP. This Order requires the Discharger to update and continue to implement the SWPPP. The revised SWPPP will reflect current operations, treatment activities, and staff responsible for implementing and supporting the SWPPP at Discharge Point Nos. 001 through 010. The SWPPP will outline site-specific management processes for minimizing storm water contamination and for preventing contaminated storm water from being discharged directly into the storm drain. At a minimum, the management practices should ensure that raw materials and chemicals do not come into contact with storm water. This Order requires the Discharger to update and continue to implement the SWPPP consistent with requirements in Attachment G.

This Order requires the Discharger to develop and implement a BMPP. The Discharger shall address specific areas that are considered sources of pollutants, including, but not limited to the tank farm area, truck parking area, loading racks, the truck wash area, and other areas where equipment is located. The BMPs shall include measures to minimize the amount of pollutants entering the discharge.

The proposed Order requires the Discharger to develop a Spill Prevention Control and Countermeasure (SPCC) Plan. The SPCC Plan is required in order to report on preventive and contingency (cleanup) procedures for controlling accidental discharges and for minimizing the adverse effects of such events.

The combination of the SWPPP, BMPP, SPCC and existing Order limitations reflecting BPJ will serve as the equivalent of technology-based effluent limitations, in the absence of established ELGs, in order to carry out the purposes and intent of the CWA.

Parameter	Units	Maximum Daily
	mg/L	30
BOD₅ @ 20 °C (mg/L)	lbs/day <sup>1</sup>	. 54
Oil and Crosse	mg/L	15
Oil and Grease	lbs/day <sup>1</sup>	27
Total Suspanded Solida (TSS)	mg/L	75
Total Suspended Solids (TSS)	lbs/day <sup>1</sup>	135
Chromium VI,	µg/L	1,100
Total Recoverable	lbs/day <sup>1</sup>	1.98
Turbidity	NTU	75
Lead,	ug/L	210
Total Recoverable	lbs/day <sup>1</sup>	0.378
Silver,	ug/L	1.9
Total Recoverable	lbs/day <sup>1</sup>	0.0035
Zinc,	ug/L	90
Total Recoverable	lbs/day <sup>1</sup>	0.16
Benzene	μg/L	71
	lbs/day <sup>1</sup>	0.128
Ethylbenzene	µg/L	29,000
	lbs/day <sup>1</sup>	52
Toluene	µg/L	200,000
	lbs/day <sup>1</sup>	360
Phenols	mg/L	1.0
	lbs/day <sup>1</sup>	75

Table F-4.	Summary of Technology-based Effluent Limitations	for
	Discharge Point No. 001.	

The mass emissions rate is based on a maximum flow of 0.216 MGD and is calculated as follows: Flow (MGD) x Concentration (mg/L) x 8.34 (conversion factor) = lbs/day.

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

# 1. Scope and Authority

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

Section 122.44(d)(1)(i) mandates that permits include effluent limitations for all pollutants that are or may be discharged at levels that have the reasonable potential to cause or contribute to an exceedance of a water quality standard, including numeric and narrative objectives within a standard. Where reasonable potential has been established for a pollutant, but there is no numeric criterion or objective for the pollutant, water quality-based effluent limitations (WQBELs) must be established using: (1) USEPA criteria guidance under CWA section 304(a), supplemented where necessary by other relevant information; (2) an indicator parameter for the

pollutant of concern; or (3) a calculated numeric water quality criterion, such as a proposed state criterion or policy interpreting the state's narrative criterion, supplemented with other relevant information, as provided in section 122.44(d)(1)(vi).

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

The specific procedures for determining reasonable potential for discharges from the 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 the Los Angeles Inner Harbor 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 the Los Angeles Inner Harbor. The CTR contains both saltwater and freshwater criteria. Because a distinct separation generally does not exist between freshwater and saltwater aquatic communities, the following apply, in accordance with section 131.38(c)(3), freshwater criteria apply at salinities of 1 part per thousand (ppt) and below at locations where this occurs 95 percent or more of the time. The CTR criteria for saltwater or human health for consumption of organisms, whichever is more stringent, are used to prescribe the effluent limitations in this Order to protect the beneficial uses of the Los Angeles Inner Harbor, a water of the United States in the vicinity of the discharge. Recent and representative data for Discharge Point No. 001 are not available to conduct a reasonable potential analysis (RPA) pursuant to Section 1.3 of the SIP. For parameters for which reasonable potential could not be established, water quality based effluent limitations were not developed based on CTR water guality criteria.

# 3. Applicable Basin Plan Objectives

The Basin Plan Objectives applicable to the Discharger are identified in Table F-5. These objectives were evaluated with respect to effluent monitoring data and Facility operations when considering effluent limitations to be included in this Order. Further discussion on each objective can be found in section IV.C.7 of this Fact Sheet.

Constituent	Units	Water Quality Objectives
рН	s.u.	Between 6.5 and 8.5 at all times, ambient pH shall not be changed more than 0.5 units from natural conditions
Bacteria (Based on the Los Angeles Bacteria TMDL, Inner Cabrillo Beach and Main Ship Channel (Bacteria TMDL)	MPN/100 ml	<ul> <li><u>Geometric Means Limits</u></li> <li>i. Total coliform density shall not exceed 1,000/100 ml</li> <li>ii. Fecal coliform density shall not exceed 200/100 ml</li> <li>iii. Enterococcus density shall not exceed 35/100 ml.</li> <li><u>Single Sample Limits</u></li> <li>i. Total coliform density shall not exceed 10,000/100 ml.</li> <li>iii. Fecal coliform density shall not exceed 400/100 ml</li> <li>iii. Enterococcus density shall not exceed 104/100 ml</li> <li>iii. Enterococcus density shall not exceed 104/100 ml</li> <li>iii. Enterococcus density shall not exceed 104/100 ml</li> <li>iii. Enterococcus density shall not exceed 10,000/100 ml</li> </ul>
Dissolved Oxygen	mg/L	The dissolved oxygen content of all surface waters shall be greater than 7 mg/L, and no single determination shall be less than 5.0 mg/L, except when natural conditions cause lesser concentrations.
Nitrogen	mg/L	Waters shall not exceed 10 mg/L nitrogen as nitrate- nitrogen plus nitrite-nitrogen (NO3-N + NO2-N), 45 mg/L as nitrate-nitrogen (NO3-N), or 1 mg/L as nitrite-nitrogen.
Temperature	٩F	Receiving water shall not be altered by more than 5°F above the natural temperature. At no time shall these WARM-designated waters be raised above 86 °F as a result of waste discharge.

# Table F-5. Applicable Basin Plan Numeric Water Quality Objectives

**4. Ammonia Water Quality Objectives.** Resolution No. 2004-022, effective on May 19, 2005) provides applicable ammonia water quality objectives for saltwater inland surface water bodies and guidance for determining whether freshwater or saltwater ammonia objectives apply. Provision 1 of the amendment states:

"For inland surface waters in which salinity is equal or less to 1 part per thousand 95% or more of the time, the applicable objectives are the freshwater objectives, based on the US EPA "1999 Update of Ambient Water Quality Criteria for Ammonia." (2) For waters in which salinity is equal to or greater than 10 parts per thousand 95% or more of the time, the applicable objectives are a 4-day average concentration of 0.035 mg un-ionized NH3/L and a one-hour average concentration of 0.233 mg unionized NH3/L. (3) For waters in which salinity is greater than 1 but less than 10 parts per thousand, the applicable objectives are the more stringent of the freshwater or saltwater objectives. (a) However, the Regional Water Board may by adoption of a resolution approve the use of either freshwater or saltwater objectives for an enclosed bay, wetland or estuary with findings that scientifically defensible information and data demonstrate that on a site-specific basis the biology of the water body is dominated by freshwater aquatic life and that freshwater objectives are more appropriate ...."

For inland surface waters not characteristic of freshwater (including enclosed bays, estuaries, and wetlands), the objectives are a 4-day average concentration of unionized ammonia of 0.035 mg/L, and a one-hour average concentration of unionized ammonia of 0.233 mg/L. The objectives are fixed concentrations of

unionized ammonia, independent of pH, temperature, or salinity. The amendment includes an implementation procedure to convert un-ionized ammonia objectives to total ammonia effluent limits. The amendment also simplifies the implementation procedures for translating ammonia objectives into effluent limits in situations where a mixing zone has been authorized by the Regional Water Board. Finally, the amendment revises the implementation procedure for determining saltwater, brackish or freshwater conditions, to be consistent with the objectives. The objectives will apply only to inland surface waters not characteristic of freshwater (including enclosed bays, estuaries and wetlands) and do not impact the Ammonia Water Quality Objectives for ocean waters contained in the California Ocean Plan.

Data for ammonia from the Facility is not available to determine if effluent limitations would be necessary to protect water quality. Thus, no effluent limitation for ammonia is included in this Order, however, monitoring for ammonia has been established for both effluent and receiving waters. The Regional Water Board reserves the right to reopen the permit if effluent or receiving water data indicate that an effluent limitation for ammonia is appropriate.

# 5. Determining the Need for WQBELs

In accordance with Section 1.3 of the SIP, the Regional Water Board conducts an 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.

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

- 1) <u>Trigger 1</u> If the MEC  $\geq$  C, a limit is needed.
- 2) <u>Trigger 2</u> If the background concentration (B) > C and the pollutant is detected in the effluent, a limit is needed.
- 3) <u>Trigger 3</u> If other related information such as CWA 303(d) listing for a pollutant, discharge type, compliance history, etc. indicates that a WQBEL is required.

Sufficient effluent and receiving water data are needed to conduct a complete RPA. If data are not sufficient, the Discharger will be required to gather the appropriate data for the Regional Water Board to conduct the RPA. 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.

No discharge events occurred at the Facility during the term of Order No. R4-2006-0047; therefore, effluent monitoring data on CTR pollutants have not been submitted to the Regional Water Board. Therefore, an RPA could not be performed pursuant to steps one through seven of Section 1.3 of the SIP.

Order No. R4-2006-0047 established WQBELs consistent with the procedures of the SIP using marine acute and chronic aquatic life criteria and human health criteria for the consumption of organisms only. However, the effluent limitation established for zinc was based on the effluent limitation contained in Order No. 00-089, which was more stringent (90  $\mu$ g/L vs 95  $\mu$ g/L) than the effluent limitation calculated based on the criteria and procedures specified in the SIP.

WQBELs contained in Order No. R4-2006-0047 remain applicable and have been included in this Order. Order No. R4-2006-0047 established effluent limitations for arsenic, copper, lead, and zinc as summarized in the table below:

Pollutant	Units	Maximum Daily Effluent Limitation
Arsenic, Total Recoverable	µg/L	59
Copper, Total Recoverable	µg/L	5.8
Lead, Total Recoverable	µg/L	14
Zinc, Total Recoverable	µg/L	90

#### Table F-6. WQBELs from Order No. R4-2006-0047

# 6. WQBEL Calculations

If a reasonable potential exists to exceed applicable water quality criteria or objectives, then a WQBEL must be established in accordance with one or more of the three procedures contained in Section 1.4 of the SIP. These procedures include:

- **a.** If applicable and available, use of the WLA established as part of a total maximum daily load (TMDL).
- **b.** Use of a steady-state model to derive maximum daily effluent limitations (MDELs) and average monthly effluent limitations (AMELs).
- **c.** Where sufficient effluent and receiving water data exist, use of a dynamic model, which has been approved by the Regional Water Board.

No discharge events occurred at the Facility during the term of the previous Order; therefore, all effluent limitations contained in the previous Order have been carried over and no WQBEL calculations occurred.

# 7. WQBELS based on Basin Plan Objectives

The Basin Plan states that the discharge shall not cause the following in the Los Angeles Inner Harbor.

- "the pH of inland surface waters shall not be depressed below 6.5 or raised above 8.5 as a result of waste discharges. Ambient pH levels shall not be changed more than 0.5 units from natural conditions as a result of waste discharge."
- "the dissolved oxygen content of all surface waters designated as WARM shall not be depressed below 5 mg/L as a result of waste discharges".

To meet the water quality objectives in the Basin Plan and to protect the beneficial uses of the receiving water, the above requirements are included as effluent or receiving water limitations in the Order.

Other constituents addressed in the Basin Plan were evaluated as follows:

- **a.** Temperature. The Basin Plan identifies numeric temperature objectives and references in the Thermal Plan. A white paper was 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*. The white paper evaluated the optimum temperatures for steelhead, topsmelt, ghost shrimp, brown rock crab, jackknife clam, and blue mussel. Based on the requirements of the Thermal Plan and the findings included in the white paper, this Order contains an effluent maximum temperature limitation of 86° F.
- **b.** Dissolved Oxygen. This Order applies the water quality objective for dissolved oxygen as a receiving water limitation.
- **c. Bacteria.** As discussed in section III.K of this Fact Sheet, the Los Angeles Harbor Bacteria TMDL, Inner Cabrillo Beach and Main Ship Channel, establishes REC-1 bacteria objectives for storm water discharges within the watershed of the Los Angeles Harbor. This Order establishes effluent limitations based on these objectives due to the TMDL.
- d. Turbidity. The Basin Plan requirements for turbidity are as follows:
  - i. Where natural turbidity is between 0 and 50 NTU, increases shall not exceed 20%.
  - ii. Where natural turbidity is greater than 50 NTU, increases shall not exceed 10%.

This Order applies the water quality objective for turbidity as a receiving water limitation in addition to the technology-based effluent limitation.

- e. Nitrogen. For inland surface waters not characteristic of freshwater, the 4-day average concentration of un-ionized ammonia shall not exceed 0.035 mg/L and the 1-hour average concentration shall not exceed 0.233 mg/L.
- **f.** Sulfate and Chloride. The Basin Plan has specific water quality objectives for sulfate and chloride. However, recent monitoring data were not available to evaluate their presence in the discharge. No effluent limitations are established at this time.

# 8. 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. This Order contains 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%, with no single test having less than 70% survival. In addition, the Order establishes thresholds that when exceeded requires the Discharger to conduct accelerated toxicity testing and/or conduct toxicity reduction evaluation (TRE) and toxicity identification evaluation (TIE) studies.

Due to the potential for storm water contamination, this Order carries over the acute toxicity limitations and monitoring requirements from the previous Order.

In addition to the Basin Plan requirements, Section 4 of the SIP states that a chronic toxicity effluent limitation is required in permits for all discharges that will cause, have the reasonable potential to cause, or contribute to chronic toxicity in receiving waters. The discharges from the Facility are infrequent and typically short-term. The discharges at the Facility are not expected to contribute to long-term effects, therefore, no chronic toxicity limitations or monitoring requirements are included in this Order. Intermittent discharges are likely to have short-term effects; therefore,

the Discharger will be required to comply with acute toxicity effluent limitations in accordance with the Basin Plan and this Order.

#### 9. Final WQBELs

 Table F-7.
 Summary of Water Quality-based Effluent Limitations for Discharge

 Point No. 001
 Point No. 001

			Effluent L	imitations	
Parameter	Units	Average Monthly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
.pH	s.u.		6.5-	8.5	
Temperature	°F				86
Arsenic,	µg/L		59		
Total Recoverable	lbs/day <sup>1</sup>		0.11		
Copper,	µg/L		5.8		
Total Recoverable	lbs/day <sup>1</sup>		0.010	·	·
Lead,	µg/L		14		
Total Recoverable	lbs/day <sup>1</sup>	Les pas	0.025		,
Zinc,	μg/L	-	90		·
Total Recoverable	lbs/day <sup>1</sup>		0.16		` <u></u>
Acute Toxicity	% Removal		2		

The mass emissions rate is based on a maximum flow of 0.216 MGD and is calculated as follows: Flow (MGD) x Concentration (mg/L) x 8.34 (conversion factor) = lbs/day.

The acute toxicity of the effluent shall be such that:

2

i. The average survival in the undiluted effluent for any three (3) consecutive 96-hour static or continuous flow bioassay test shall be at least 90%, and

ii. No single test shall produce less than 70% survival. Compliance with the toxicity objectives will be determined by the method described in section V of the MRP (Attachment E).

# **D.** Final Effluent Limitations

Section 402(o) of the CWA and section 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 pH, BOD, oil and grease, TSS, total recoverable arsenic, total recoverable copper, total recoverable lead, total recoverable zinc, temperature, turbidity, and acute toxicity are being carried over from Order No. R4-2006-0047. The previous Order also included limitations for benzene, ethylbenzene, toluene, chromium VI, silver, and phenols but was not specific as to the basis of these limitations. Removal of these numeric limitations would constitute backsliding under CWA section 402(o). The Regional Water Board has determined that these numeric effluent limitations continue to be applicable to the Facility.

# 1. Satisfaction of Anti-Backsliding Requirements

All effluent limitations in this Order are at least as stringent as the effluent limitations in the previous Order. The requirements of this Order are consistent with applicable State and federal anti-backsliding requirements.

# 2. Satisfaction of Antidegradation Policy

Section 131.12 requires that the State Water Quality Standards include an antidegradation policy consistent with the federal policy. The State Water Board established California's antidegradation policy in State Water Board Resolution No. 68-16. Resolution No. 68-16 incorporates the federal antidegradation policy where the federal policy applies under federal law. Resolution No. 68-16 requires that existing water quality be maintained unless degradation is justified based on specific findings. The Regional Water Board's Basin Plan implements, and incorporates by reference, both the State and federal antidegradation policies.

The permitted discharge is consistent with the antidegradation provision of section 131.12 and State Water Board Resolution No. 68-16 and the final limitations in this Order are in compliance with antidegradation requirements and meet the requirements of the SIP because these limits hold the Discharger to performance levels that will not cause or contribute to water quality impairment or further quality degradation that could result from an increase in permitted design flow or a reduction in the level of treatment. Further, compliance with these requirements will result in the use of best practicable treatment or control of the discharge.

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

This Order contains both technology-based and water quality-based effluent limitations for individual pollutants. The technology-based effluent limitations consist of restrictions on BOD, oil and grease, TSS, chromium VI, lead, silver, zinc, benzene, ethylbenzene, toluene, phenols, and turbidity at Discharge Point No. 001. Restrictions on these parameters are discussed in section IV.B.2 of this Fact Sheet. This Order's technology-based pollutant restrictions implement the minimum, applicable federal technology-based requirements. These limitations are not more stringent than required by the CWA.

This Order includes WQBELs for pH, temperature, arsenic, copper, lead, zinc and acute toxicity. Water quality-based effluent limitations have been scientifically derived to implement water quality objectives that protect beneficial uses. Both the beneficial uses and the water quality objectives have been approved pursuant to federal law and are the applicable federal water quality-based effluent limitations for priority pollutants are based on the SIP, which was approved on May 18, 2000, by USEPA. All beneficial uses and water quality objectives contained in the Basin Plan were approved under state law and submitted to and approved by USEPA prior to May 30, 2000. Any water quality objectives and beneficial uses submitted to USEPA prior to May 30, 2000, but not approved by USEPA before that date, are nonetheless

"applicable water quality standards for purposes of the CWA" pursuant to part 131.21(c)(1). Collectively, this Order's restrictions on individual pollutants are no more stringent than required to implement the requirements of the CWA.

			Efflue	ent Limitations		
Parameter	Units	Average Monthly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum	Basis <sup>1</sup>
Conventional Pollut	ants					
pН	s.u.			6.5	- 8.5	BP
TSS	mg/L		75		i de la c	BPJ
155	lbs/day <sup>2</sup>		135			DFJ
Oil and Grease	mg/L		15			E
	lbs/day <sup>2</sup>		27			
BOD (5-day @ 20	mg/L		30	·		E
deg. C)	lbs/day <sup>2</sup>		54			
Non-Conventional F	Pollutants				·	·
Temperature	°F		·		86	BP and WP
Dhanala	mg/L		1.0			E
Phenols	lbs/day <sup>2</sup>		1.8	·) <u></u> ·	·	E
Turbidity	NTU		75			BPJ
Acute Toxicity	% Survival		·	3		E
Priority Pollutants						
Arsenic,	µg/L		59		• •••••	CTR
Total Recoverable	lbs/day <sup>2</sup>		0.11			
Chromium VI,	µg/L		1,100			
Total Recoverable	lbs/day <sup>2</sup>		2.0	-		E
Copper,	µg/L	·	5.8			CTR
Total Recoverable	lbs/day <sup>2</sup>		0.010	``		OIR
Lead,	µg/L		14			OTD
Total Recoverable	lbs/day <sup>2</sup>		0.025			CTR
Silver,	µg/L		1.9	·		_
Total Recoverable	lbs/day <sup>2</sup>		0.0034		·	, E
Zinc,	μg/L		90			
Total Recoverable	lbs/day <sup>2</sup>		0.16			E
Poppone	µg/L	 	71			
Benzene	lbs/day <sup>2</sup>		0.13			E
Ethylbenzene	µg/L		29,000			E
	lbs/day <sup>2</sup>		52			· I
Toluene	µg/L		200,000			E
roluerie	lbs/day <sup>2</sup>		360			Ē

 Table F-8.
 Summary of Final Effluent Limitations for Discharge Point No. 001

- <sup>1</sup> BP = Basin Plan; E = Existing Order; BPJ = Best Professional Judgment; CTR = California Toxic Rule; SIP = State Implementation Policy, TMDL = Total Maximum Daily Load, and WP = White Paper (*Temperature and Dissolved Oxygen Impacts on Biota in Tidal Estuaries and Enclosed Bays in the Los Angeles Region*).
- The mass emissions rate is based on a maximum flow of 0.216 MGD and is calculated as follows: Flow (MGD) x Concentration (mg/L) x 8.34 (conversion factor) = lbs/day.

The acute toxicity of the effluent shall be such that:

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

# 4. Mass-based Effluent Limitations

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

Mass (lbs/day) = flow rate (MGD) x 8.34 x effluent limitation (mg/L) where: Mass = mass limitation for a pollutant (lbs/day) Effluent limitation = concentration limit for a pollutant (mg/L) Flow rate = discharge flow rate (MGD)

#### E. Interim Effluent Limitations

Not Applicable

# 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 (section 131.12) and State Water Board Resolution No. 68-16. Receiving water limitations in this 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 requires that all NPDES permits specify requirements for recording and reporting monitoring results. Water Code sections 13267 and 13383 authorizes the Regional Water Board to require technical and monitoring reports. The Monitoring and Reporting Program (MRP), Attachment E of this Order, establishes monitoring and reporting requirements to implement federal and state requirements. The following provides the rationale for the monitoring and reporting requirements contained in the MRP for this facility.

#### A. Influent Monitoring

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 SIP.

To demonstrate compliance with established effluent limitations, the Order establishes monitoring at a frequency of once per discharge event, with a maximum of once per month during extended discharge events at Discharge Point No. 001 for the following pollutants:

- BOD
- Oil and Grease
- pH
- TSS
- Arsenic
- Chromium VI
- Copper
- Lead
- Silver

• Zinc

- Benzene
- Ethylbenzene
- Toluene
- Total Coliform
- Fecal Coliform
- Enterococcus

Acute toxicity monitoring is carried over from Order No. R4-2006-0047 and shall be conducted on an annual basis. Further, annual monitoring requirements have been carried over for total organic carbon and electrical conductivity. Monitoring for the following pollutants of concern shall also be carried over and monitoring shall be conducted at a frequency of once per discharge event:

- Methyl Tart-butyl Ether (MTBE)
- Phenois
- Sulfide
- Temperature
- Turbidity
- Xylene
- Total Petroleum Hydrocarbons
- Tertiary Butyl Alcohol

The SIP states that the Regional Water Board will require periodic monitoring for pollutants for which criteria or objectives apply and for which no effluent limitations have been established. This tentative Order requires the Discharger to conduct annual monitoring for all CTR priority pollutants and TCDD Equivalents, as listed in the MRP (Attachment E), in the effluent for the life of the permit. The Regional Water Board will use the additional data to conduct an RPA and determine if a WQBEL is required. The Regional Water Board may reopen the permit to incorporate additional effluent limitations and requirements, if necessary.

Effluent monitoring shall be conducted at the effluent discharge point (i.e., Discharge Point No. 001, located at 33° 45' 21" N latitude, 118° 16' 04") prior to entry into the Los Angeles Inner Harbor near Berth 167.

To evaluate the effective implementation of the SWPPP and the BMPP, monitoring of non-contact storm water through Discharge Point Nos. 002 (at EFF-002) and 003 through 010 (at EFF-003 through EFF-010) has been established for parameters expected to be present at Discharge Point No. 001 that may contaminate storm water runoff from areas outside of the industrial activity areas of the property if BMPs are not implemented effectively. Because the discharge of storm water through Discharge Point Nos. 002-010 outside of the areas potentially impacted by industrial activity is non-industrial in nature, monitoring frequencies have been established at a maximum of twice per year, with the exception of flow, which is required to be reported for each discharge event. Similar to Discharge Point No. 001, monitoring for bacteria has been established to evaluate the contribution of the discharge to water quality objective exceedances in the receiving water from these outfalls.

#### C. Whole Effluent Toxicity Testing Requirements

Whole effluent toxicity (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, and therefore, monitoring requirements are included in the MRP to determine compliance with the effluent limitations established in Limitations and Discharge Requirements, Effluent Limitations, section IV.A.

# D. Receiving Water Monitoring

#### 1. Surface Water

According to the SIP, the Discharger is required to monitor the upstream receiving water for the CTR priority pollutants, to determine reasonable potential. Accordingly, the Regional Water Board is requiring that the Discharger conduct upstream receiving water monitoring of the CTR priority pollutants at Monitoring Location RSW-001. Additionally, the Discharger must analyze pH, salinity, and hardness of the upstream receiving water at the same time the samples are collected for priority pollutants analysis.

This Order includes receiving water monitoring requirements which are included in the MRP (Attachment E). During the term of Order No. R4-2006-0047, the frequency at which the Discharger was required to monitor the receiving water was established at once per year for priority pollutants. Since no discharges occurred at the Facility over the term of Order No. R4-2006-0047, the frequency at which monitoring for pH, priority pollutants, salinity, and TCDD equivalents shall occur in the receiving water has been reduced to once per discharge event. For priority pollutants and TCDD equivalents, only the first discharge event of each year shall be monitored.

The Facility is also required to perform general observations of the receiving water when discharges occur and report the observations in the monitoring report. Attention shall be given to the presence or absence of: floating or suspended matter, discoloration, aquatic life, visible film, sheen or coating, and fungi, slime, or objectionable growths.

# 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 in order to monitor for the presence of floating and suspended material, oil and grease, discoloration, turbidity, and odor. Furthermore, the Discharger shall implement the SWPPP as enumerated in Attachment G to Order No. R4-2011-0097.

# **VII. RATIONALE FOR PROVISIONS**

#### A. Standard Provisions

Standard Provisions, which apply to all NPDES permits in accordance with section 122.41, and additional conditions applicable to specified categories of permits in

accordance with section 122.42, are provided in Attachment D. The Discharger must comply with all standard provisions and with those additional conditions that are applicable under section 122.42.

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

#### **B.** Special Provisions

#### 1. Reopener Provisions

These provisions are based on section 123 and the previous 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

Not applicable.

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

# 4. Best Management Practices and Pollution Prevention

- **a.** Storm Water Pollution Prevention Plan (SWPPP). This Order will require the Discharger to implement a SWPPP. The SWPPP will outline site-specific management processes for minimizing storm water runoff contamination and for preventing contaminated storm water runoff from being discharged directly into the Los Angeles Inner Harbor. At a minimum, the management practices should ensure that raw materials and chemicals do not come into contact with storm water. SWPPP requirements are included as Attachment G, based on 40 CFR section 122.44(k).
- **b.** Best Management Practices Plan (BMP Plan). The previous Order required the Discharger to develop and implement BMPs in order to reduce the concentrations of arsenic, copper, and zinc in its discharge. This Order will require the Discharger to update and continue to implement BMPs, consistent with Order No. R4-2006-0047. The purpose of the BMPs is to establish site-specific procedures that ensure proper operation of the Facility. Further, the

Discharger shall assure that unauthorized discharges (i.e., spills) to the receiving water have been effectively prohibited. BMPs shall be consistent with the general guidance contained in the U.S. EPA *Guidance Manual for Developing Best Management Practices (BMPs)* (EPA 833-B-93-004).

- 5. Spill Prevention Control and Countermeasure (SPCC) Plan. Since spill or overflow may occur in the Facility, this Order requires the Discharger to implement a SPCC Plan for the Facility. The Discharger shall review and update, if necessary, the SPCC after each incident and make it available for the facility personnel at all times.
- 6. Construction, Operation, and Maintenance Specifications

Not Applicable

7. Special Provisions for Municipal Facilities (POTWs Only)

Not Applicable

8. Other Special Provisions

Not Applicable

#### 9. Compliance Schedules

Not Applicable

# VIII. PUBLIC PARTICIPATION

The California Regional Water Quality Control Board, Los Angeles Region (Regional Water Board) is considering the issuance of waste discharge requirements (WDRs) that will serve as a National Pollutant Discharge Elimination System (NPDES) permit for Chevron USA, Inc., Mormon Island Marine Terminal. As a step in the WDR adoption process, the Regional Water Board staff has developed tentative WDRs. The Regional Water Board encourages public participation in the WDR adoption process.

#### A. Notification of Interested Parties

The Regional Water Board has notified the Discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity to submit their written comments and recommendations. Notification was provided through a local newspaper which services the Wilmington/Long Beach area.

# **B. Written Comments**

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

person or by mail to the Executive Office at the Regional Water Board at the address above on the cover page of this Order.

To be fully responded to by staff and considered by the Regional Water Board, written comments must be received at the Regional Water Board offices by 5:00 p.m. on May 5, 2011.

#### C. Public Hearing

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

# Date:June 2, 2011Time:9:00 AMLocation:Metropolitan Water District of Southern California700 North Alameda StreetLos Angeles, 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 <u>http://www.waterboards.ca.gov/losangeles</u> where you can access the current agenda for changes in dates and locations.

#### D. Nature of Hearing

This will be a formal adjudicative hearing pursuant to section 648 et seq. of title 23 of the California Code of Regulations. Chapter 5 of the California Administrative Procedure Act (commencing with section 11500 of the Government Code) will not apply to this proceeding.

*Ex Parte Communications Prohibited:* As a quasi-adjudicative proceeding, no board member may discuss the subject of this hearing with any person, except during the public hearing itself. Any communications to the Regional Water Board must be directed to staff.

# E. Parties to the Hearing

The following are the parties to this proceeding:

**1.** The applicant/permittee

# F. Regional Water Board Staff

Any other persons requesting party status must submit a written or electronic request to staff not later than 20 business days before the hearing. All parties will be notified if other persons are so designated.

# G. Public Comments and Submittal of Evidence

Persons wishing to comment upon or object to the tentative waste discharge requirements, or submit evidence for the Board to consider, are invited to submit them in writing to the above address. To be evaluated and responded to by staff, included in the Board's agenda folder, and fully considered by the Board, written comments must be received no later than close of business May 5, 2011. Comments or evidence received after that date will be submitted, ex agenda, to the Board for consideration, but only included in administrative record with express approval of the Chair during the hearing. Additionally, if the Board receives only supportive comments, the permit may be placed on the Board's consent calendar, and approved without an oral testimony.

# H. Hearing Procedure

The meeting, in which the hearing will be a part of, will start at 9:00 a.m. Interested persons are invited to attend. Staff will present the matter under consideration, after which oral statements from parties or interested persons will be heard. For accuracy of the record, all important testimony should be in writing. The Board will include in the administrative record written transcriptions of oral testimony that is actually presented at the hearing. Oral testimony may be limited to 3 minutes maximum or less for each speaker, depending on the number of persons wishing to be heard. Parties or persons with similar concerns or opinions are encouraged to choose one representative to speak. At the conclusion of testimony, the Board will deliberate in open or close session, and render a decision.

Parties or persons with special procedural requests should contact staff. Any procedure not specified in this hearing notice will be waived pursuant to section 648(d) of title 23 of the California Code of Regulations. Objections to any procedure to be used during this hearing must be submitted in writing not later than close of 15 business days prior to the date of the hearing. Procedural objections will not be entertained at the hearing.

#### I. 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

# J. Information and Copying

The Report of Waste Discharge (RWD), related documents, tentative effluent limitations and special provisions, comments received, and other information are on file and may be inspected at the address above at any time between 8:30 a.m. and 4:45 p.m., Monday through Friday. Copying of documents may be arranged through the Regional Water Board by calling (213) 576 – 6600.

#### K. 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.

#### L. Additional Information

Requests for additional information or questions regarding this order should be directed to Gensen Kai at (213) 576-6651.

# ATTACHMENT G – STORM WATER POLLUTION PREVENTION PLAN REQUIREMENTS

#### I. Implementation Schedule

A storm water pollution prevention plan (SWPPP) shall be developed and submitted to the Regional Water Board within 90 days following the adoption of this Order. The SWPPP shall be implemented for each facility covered by this Permit within 10 days of approval from the Regional Water Board, or 6-months from the date of the submittal of the SWPPP to the Regional Water Board (whichever comes first).

#### II. Objectives

The SWPPP has two major objectives: (a) to identify and evaluate sources of pollutants associated with industrial activities that may affect the quality of storm water discharges and authorized non-storm water discharges from the facility; and (b) to identify and implement site-specific best management practices (BMPs) to reduce or prevent pollutants associated with industrial activities in storm water discharges and authorized non-storm water discharges. BMPs may include a variety of pollution prevention measures or other low-cost and pollution control measures. They are generally categorized as non-structural BMPs (activity schedules, prohibitions of practices, maintenance procedures, and other low-cost measures) and as structural BMPs (treatment measures, run-off controls, overhead coverage.) To achieve these objectives, facility operators should consider the five phase process for SWPPP development and implementation as shown in Table A.

The SWPPP requirements are designed to be sufficiently flexible to meet the needs of various facilities. SWPPP requirements that are not applicable to a facility should not be included in the SWPPP.

A facility's SWPPP is a written document that shall contain a compliance activity schedule, a description of industrial activities and pollutant sources, descriptions of BMPs, drawings, maps, and relevant copies or references of parts of other plans. The SWPPP shall be revised whenever appropriate and shall be readily available for review by facility employees or Regional Water Board inspectors.

#### **III.** Planning and Organization

# A. Pollution Prevention Team

The SWPPP shall identify a specific individual or individuals and their positions within the facility organization as members of a storm water pollution prevention team responsible for developing the SWPPP, assisting the facility manager in SWPPP' implementation and revision, and conducting all monitoring program activities required in Attachment E of this Permit. The SWPPP shall clearly identify the Permit related responsibilities, duties, and activities of each team member. For small facilities, storm water pollution prevention teams may consist of one individual where appropriate.

# B. Review Other Requirements and Existing Facility Plans

The SWPPP may incorporate or reference the appropriate elements of other regulatory requirements. Facility operators should review all local, State, and Federal requirements that impact, complement, or are consistent with the requirements of this General Permit. Facility operators should identify any existing facility plans that contain storm water pollutant control measures or relate to the requirements of this Permit. As examples, facility operators whose facilities are subject to Federal Spill Prevention Control and Countermeasures' requirements should already have instituted a plan to control spills of certain hazardous materials. Similarly, facility operators whose facilities are subject to air quality related permits and regulations may already have evaluated industrial activities that generate dust or particulates.

#### IV. Site Map

The SWPPP shall include a site map. The site map shall be provided on an  $8-\frac{1}{2} \times 11$  inch or larger sheet and include notes, legends, and other data as appropriate to ensure that the site map is clear and understandable. If necessary, facility operators may provide the required information on multiple site maps.

# TABLE A

# FIVE PHASES FOR DEVELOPING AND IMPLEMENTING INDUSTRIAL STORM WATER POLLUTION PREVENTION PLANS

# PLANNING AND ORGANIZATION

Form Pollution Prevention Team Review other plans

# **ASSESSMENT PHASE**

Develop a site map Identify potential pollutant sources Inventory of materials and chemicals List significant spills and leaks Identify non-storm water discharges Assess pollutant risks

# BEST MANAGEMENT PRACTICES IDENTIFICATION PHASE

Non-structural BMPs Structural BMPs Select activity and site-specific BMPs

# IMPLEMENTATION PHASE

Train employees Implement BMPs Conduct recordkeeping and reporting

# **EVALUATION / MONITORING**

Conduct annual site evaluation Review monitoring information Evaluate BMPs Review and revise SWPPP

The following information shall be included on the site map:

- A. The facility boundaries; the outline of all storm water drainage areas within the facility boundaries; portions of the drainage area impacted by run-on from surrounding areas; and direction of flow of each drainage area, on-site surface water bodies, and areas of soil erosion. The map shall also identify nearby water bodies (such as rivers, lakes, and ponds) and municipal storm drain inlets where the facility's storm water discharges and authorized non-storm water discharges may be received.
- **B.** The location of the storm water collection and conveyance system, associated points of discharge, and direction of flow. Include any structural control measures that affect storm water discharges, authorized non-storm water discharges, and run-on. Examples of structural control measures are catch basins, berks, detention ponds, secondary containment, oil/water separators, diversion barriers, etc.
- **C.** An outline of all impervious areas of the facility, including paved areas, buildings, covered storage areas, or other roofed structures.
- **D.** Locations where materials are directly exposed to precipitation and the locations where significant spills or leaks identified in Section A.6.a.iv. below have occurred.
- E. Areas of industrial activity. This shall include the locations of all storage areas and storage tanks, shipping and receiving areas, fueling areas, vehicle and equipment storage/maintenance areas, material handling and processing areas, waste treatment and disposal areas, dust or particulate generating areas, cleaning and rinsing areas, and other areas of industrial activity which are potential pollutant sources.

#### V. List of Significant Materials

The SWPPP shall include a list of significant materials handled and stored at the site. For each material on the list, describe the locations where the material is being stored,

received, shipped, and handled, as well as the typical quantities and frequency. Materials shall include raw materials, intermediate products, final or finished products, recycled materials, and waste or disposed materials.

# VI. Description of Potential Pollutant Sources

- A. The SWPPP shall include a narrative description of the facility's industrial activities, as identified in Section A.4.e above, associated potential pollutant sources, and potential pollutants that could be discharged in storm water discharges or authorized non-storm water discharges. At a minimum, the following items related to a facility's industrial activities shall be considered:
  - 1. Industrial Processes. Describe each industrial process, the type, characteristics, and quantity of significant materials used in or resulting from the process, and a description of the manufacturing, cleaning, rinsing, recycling, disposal, or other activities related to the process. Where applicable, areas protected by containment structures and the corresponding containment capacity shall be described.
  - 2. Material Handling and Storage Areas. Describe each handling and storage area, type, characteristics, and quantity of significant materials handled or stored, description of the shipping, receiving, and loading procedures, and the spill or leak prevention and response procedures. Where applicable, areas protected by containment structures and the corresponding containment capacity shall be described.
  - 3. Dust and Particulate Generating Activities. Describe all industrial activities that generate dust or particulates that may be deposited within the facility's boundaries and identify their discharge locations; the characteristics of dust and particulate pollutants; the approximate quantity of dust and particulate pollutants that may be deposited within the facility boundaries; and a description of the primary areas of the facility where dust and particulate pollutants would settle.
  - 4. Significant Spills and Leaks. Describe materials that have spilled or leaked in significant quantities in storm water discharges or non-storm water discharges since April 17, 1994. Include toxic chemicals (listed in 40 CFR, Part 302) that have been discharged to storm water as reported on U.S. Environmental Protection Agency (USEPA) Form R, and oil and hazardous substances in excess of reportable quantities (see 40 Code of Federal Regulations [CFR], Parts 110, 117, and 302).

The description shall include the type, characteristics, and approximate quantity of the material spilled or leaked, the cleanup or remedial actions that have occurred or are planned, the approximate remaining quantity of materials that may be exposed to storm water or non-storm water discharges, and the preventative measures taken to ensure spill or leaks do not reoccur. Such list shall be updated as appropriate during the term of this Permit.

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**5.** Non-Storm Water Discharges. Facility operators shall investigate the facility to identify all non-storm water discharges and their sources. As part of this investigation, all drains (inlets and outlets) shall be evaluated to identify whether they connect to the storm drain system.

All non-storm water discharges shall be described. This shall include the source, quantity, frequency, and characteristics of the non-storm water discharges and associated drainage area.

Non-storm water discharges (other boiler blow down and boiler condensate permitted under the Order) that contain significant quantities of pollutants or that do not meet the conditions provided in Special Conditions D of the storm water general permit are prohibited by this Permit (Examples of prohibited non-storm water discharges are contact and non-contact cooling water, rinse water, wash water, etc.). Non-storm water discharges that meet the conditions provided in Special Condition D of the general storm water permit are authorized by this Permit. The SWPPP must include BMPs to prevent or reduce contact of non-storm water discharges with significant materials or equipment.

- 6. Soil Erosion. Describe the facility locations where soil erosion may occur as a result of industrial activity, storm water discharges associated with industrial activity, or authorized non-storm water discharges.
- **B.** The SWPPP shall include a summary of all areas of industrial activities, potential pollutant sources, and potential pollutants. This information should be summarized similar to Table B. The last column of Table B, "Control Practices", should be completed in accordance with Section A.8. below.

# VII. Assessment of Potential Pollutant Sources

- **A.** The SWPPP shall include a narrative assessment of all industrial activities and potential pollutant sources as described in A.6. above to determine:
  - **1.** Which areas of the facility are likely sources of pollutants in storm water discharges and authorized non-storm water discharges, and
  - 2. Which pollutants are likely to be present in storm water discharges and authorized non-storm water discharges. Facility operators shall consider and evaluate various factors when performing this assessment such as current storm water BMPs; quantities of significant materials handled, produced, stored, or disposed of; likelihood of exposure to storm water or authorized non-storm water discharges; history of spill or leaks; and run-on from outside sources.
- **B.** Facility operators shall summarize the areas of the facility that are likely sources of pollutants and the corresponding pollutants that are likely to be present in storm water discharges and authorized non-storm water discharges.

Facility operators are required to develop and implement additional BMPs as appropriate and necessary to prevent or reduce pollutants associated with each pollutant source. The BMPs will be normatively described in section VIII below.

#### VIII. Storm Water Best Management Practices

The SWPPP shall include a narrative description of the storm water BMPs to be implemented at the facility for each potential pollutant and its source identified in the site assessment phase (Sections A.6. and 7. above). The BMPs shall be developed and implemented to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges. Each pollutant and its source may require one or more BMPs. Some BMPs may be implemented for multiple pollutants and their sources, while other BMPs will be implemented for a very specific pollutant and its source.

#### TABLE B

# EXAMPLE ASSESSMENT OF POTENTIAL POLLUTION SOURCES AND CORRESPONDING BEST MANAGEMENT PRACTICES SUMMARY

Area	Activity	Pollutant Source	Pollutant	Best Management Practices
Area Vehicle & Equipment Fueling	Activity Fueling	Pollutant SourceSpills and leaks during delivery.Spills caused by topping off fuel tanks.Hosing or washing down fuel oil fuel area.Leaking storage tanks.	Pollutant fuel oil	Best Management PracticesUse spill and overflow protection.Minimize run-on of storm water into the fueling area.Cover fueling area.Use dry cleanup methods rather than hosing down area.
		Rainfall running off fuel oil, and rainfall running onto and off fueling area.		Implement proper spill prevention control program. Implement adequate preventative maintenance program to preventive tank and line leaks. Inspect fueling areas regularly to detect problems before they occur. Train employees on proper fueling, cleanup, and spill response techniques.

The description of the BMPs shall identify the BMPs as (1) existing BMPs, (2) existing BMPs to be revised and implemented, or (3) new BMPs to be implemented. The description shall also include a discussion on the effectiveness of each BMP to reduce or

prevent pollutants in storm water discharges and authorized non-storm water discharges. The SWPPP shall provide a summary of all BMPs implemented for each pollutant source. This information should be summarized similar to Table B.

Facility operators shall consider the following BMPs for implementation at the facility:

#### A. Non-Structural BMPs

Non-structural BMPs generally consist of processes, prohibitions, procedures, schedule of activities, etc., that prevent pollutants associated with industrial activity from contacting with storm water discharges and authorized non-storm water discharges. They are considered low technology, cost-effective measures. Facility operators should consider all possible non-structural BMPs options before considering additional structural BMPs (see Section A.8.b. below). Below is a list of non-structural BMPs that should be considered:

- **1. Good Housekeeping.** Good housekeeping generally consists of practical procedures to maintain a clean and orderly facility.
- **2. Preventive Maintenance.** Preventive maintenance includes the regular inspection and maintenance of structural storm water controls (catch basins, oil/water separators, etc.) as well as other facility equipment and systems.
- **3. Spill Response.** This includes spill clean-up procedures and necessary clean-up equipment based upon the quantities and locations of significant materials that may spill or leak.
- **4. Material Handling and Storage.** This includes all procedures to minimize the potential for spills and leaks and to minimize exposure of significant materials to storm water and authorized non-storm water discharges.
- 5. Employee Training. This includes training of personnel who are responsible for (1) implementing activities identified in the SWPPP, (2) conducting inspections, sampling, and visual observations, and (3) managing storm water. Training should address topics such as spill response, good housekeeping, and material handling procedures, and actions necessary to implement all BMPs identified in the SWPPP. The SWPPP shall identify periodic dates for such training. Records shall be maintained of all training sessions held.
- 6. Waste Handling/Recycling. This includes the procedures or processes to handle, store, or dispose of waste materials or recyclable materials.
- **7. Recordkeeping and Internal Reporting.** This includes the procedures to ensure that all records of inspections, spills, maintenance activities, corrective actions, visual observations, etc., are developed, retained, and provided, as necessary, to the appropriate facility personnel.

- 8. Erosion Control and Site Stabilization. This includes a description of all sediment and erosion control activities. This may include the planting and maintenance of vegetation, diversion of run-on and runoff, placement of sandbags, silt screens, or other sediment control devices, etc.
- **9. Inspections.** This includes, in addition to the preventative maintenance inspections identified above, an inspection schedule of all potential pollutant sources. Tracking and follow-up procedures shall be described to ensure adequate corrective actions are taken and SWPPPs are made.
- **10.Quality Assurance.** This includes the procedures to ensure that all elements of the SWPPP and Monitoring Program are adequately conducted.

#### **B. Structural BMPs.**

Where non-structural BMPs as identified in Section A.8.a. above are not effective, structural BMPs shall be considered. Structural BMPs generally consist of structural devices that reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges. Below is a list of structural BMPs that should be considered:

- 1. Overhead Coverage. This includes structures that provide horizontal coverage of materials, chemicals, and pollutant sources from contact with storm water and authorized non-storm water discharges.
- **2. Retention Ponds.** This includes basins, ponds, surface impoundments, bermed areas, etc. that do not allow storm water to discharge from the facility.
- Control Devices. This includes berms or other devices that channel or route runon and runoff away from pollutant sources.
- **4. Secondary Containment Structures.** This generally includes containment structures around storage tanks and other areas for the purpose of collecting any leaks or spills.
- **5. Treatment.** This includes inlet controls, infiltration devices, oil/water separators, detention ponds, vegetative swales, etc. that reduce the pollutants in storm water discharges and authorized non-storm water discharges.

# IX. Annual Comprehensive Site Compliance Evaluation

The facility operator shall conduct one comprehensive site compliance evaluation (evaluation) in each reporting period (July 1-June 30). Evaluations shall be conducted within 8-16 months of each other. The SWPPP shall be revised, as appropriate, and the revisions implemented within 90 days of the evaluation. Evaluations shall include the following:

- **A.** A review of all visual observation records, inspection records, and sampling and analysis results.
- **B.** A visual inspection of all potential pollutant sources for evidence of, or the potential for, pollutants entering the drainage system.
- **C.** A review and evaluation of all BMPs (both structural and non-structural) to determine whether the BMPs are adequate, properly implemented and maintained, or whether additional BMPs are needed. A visual inspection of equipment needed to implement the SWPPP, such as spill response equipment, shall be included.
- **D.** An evaluation report that includes, (i) identification of personnel performing the evaluation, (ii) the date(s) of the evaluation, (iii) necessary SWPPP revisions, (iv) schedule, as required in Section A.10.e, for implementing SWPPP revisions, (v) any incidents of non-compliance and the corrective actions taken, and (vi) a certification that the facility operator is in compliance with this Permit. If the above certification cannot be provided, explain in the evaluation report why the facility operator is not in compliance with this General Permit. The evaluation report shall be submitted as part of the quarterly monitoring report (Fourth Quarter), retained for at least five years, and signed and certified in accordance with Standard Provisions V.D.5 of Attachment D.

# X. SWPPP General Requirements

- **A.** The SWPPP shall be retained on site and made available upon request of a representative of the Regional Water Board and/or local storm water management agency (local agency) which receives the storm water discharges.
- **B.** The Regional Water Board and/or local agency may notify the facility operator when the SWPPP does not meet one or more of the minimum requirements of this Section. As requested by the Regional Water Board and/or local agency, the facility operator shall submit an SWPPP revision and implementation schedule that meets the minimum requirements of this section to the Regional Water Board and/or local agency that requested the SWPPP revisions. Within 14 days after implementing the required SWPPP revisions, the facility operator shall provide written certification to the Regional Water Board and/or local agency that the revisions have been implemented.
- **C.** The SWPPP shall be revised, as appropriate, and implemented prior to changes in industrial activities which (i) may significantly increase the quantities of pollutants in storm water discharge, (ii) cause a new area of industrial activity at the facility to be exposed to storm water, or (iii) begin an industrial activity which would introduce a new pollutant source at the facility.
- **D.** The SWPPP shall be revised and implemented in a timely manner, but in no case more than 90 days after a facility operator determines that the SWPPP is in violation of any requirement(s) of this Permit.

- E. When any part of the SWPPP is infeasible to implement due to proposed significant structural changes, the facility operator shall submit a report to the Regional Water Board prior to the applicable deadline that (i) describes the portion of the SWPPP that is infeasible to implement by the deadline, (ii) provides justification for a time extension, (iii) provides a schedule for completing and implementing that portion of the SWPPP, and (iv) describes the BMPs that will be implemented in the interim period to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges. Such reports are subject to Regional Water Board approval and/or modifications. Facility operators shall provide written notification to the Regional Water Board within 14 days after the SWPPP revisions are implemented.
- F. The SWPPP shall be provided, upon request, to the Regional Water Board. The SWPPP is considered a report that shall be available to the public by the Regional Water Board under Section 308(b) of the Clean Water Act.

# ATTACHMENT H - STATE WATER BOARD MINIMUM LEVELS

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 State Water Board and become effective. The following tables (Tables 2a - 2d) present MLs for four major chemical groupings: volatile substances, semi-volatile substances, inorganics, and pesticides and PCBs.

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	J0.5	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		-

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Table 2b - SEMI-VOLATILE SUBSTANCES*	GC	GCMS	LC	COLOR
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	
	5	10	10	
3-Methyl-Chlorophenol	10	5		
4,6 Dinitro-2-methylphenol	5	10		
4- Nitrophenol	10	5	+	
4-Bromophenyl phenyl ether	10			
4-Chlorophenyl phenyl ether		5		
Acenaphthene	1	1	0.5	
Acenaphthylene		10	0.2	
Anthracene	· · · · · · · · · · · · · · · · · · ·	10	2	
Benzidine		5		
Benzo(a) pyrene		10 -	2	
Benzo(g,h,i)perylene		5	0.1	
Benzo(k)fluoranthene	· · · · · · · · · · · · · · · · · · ·	10	2	
bis 2-(1-Chloroethoxyl) methane		5		
bis(2-chloroethyl) ether	10	1		
bis(2-Chloroisopropyl) ether	10	2		
bis(2-Ethylhexyl) phthalate	10	5		
Butyl benzyl phthalate	10	10		
Chrysene		10	5	
di-n-Butyl phthalate		10	-	
di-n-Octyl phthalate		10		
Dibenzo(a,h)-anthracene		10	0.1	
Diethyl phthalate	10	2		
Dimethyl phthalate	. 10	2		
Fluoranthene	10	1	0.05	
Fluorene		10	0.1	
Hexachloro-cyclopentadiene	5	5		
Hexachlorobenzene	5	1		
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	<u> </u>	
N-Nitroso -di n-propyl amine	10	5		<u> </u>
Naphthalene	10	1	0.2	
Nitrobenzene	10	1		· · ·
Pentachlorophenol	1	5	1	
Phenanthrene	•	5	0.05	
		<u> </u>		

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Table 2b - SEMI-VOLATILE SUBSTANCES*	GC	GCMS	LC	COLOR
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		20	1,000
Beryllium	20	0.5	2	0.5	1				1,000
Cadmium	10	0.5	10	0.25	0.5				1,000
Chromium (total)	50	2	10	0.5	1				1,000
Chromium VI	5			_				10	
Copper	25	5	10	0.5	2				1,000
Cyanide								5	
Lead	20	5	5	0.5	2				10,000
Mercury				0.5			0.2		
Nickel	50	5	20	1	5				1,000
Selenium		- 5	10	2	5	1			1,000
Silver	10	1	10	0.25	2				1,000
Thallium	10	2	10	1	5				1,000
Zinc	20		20	1	10				1,000

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

Table 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

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Table 2d – PESTICIDES – PCBs*	GC Contraction
PCB 1232	0.5
PCB 1242	0.5
PCB 1248	0.5
PCB 1254	0.5
PCB 1260	0.5
Toxaphene	0.5

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

#### **Techniques:**

GC - Gas Chromatography

GCMS - Gas Chromatography/Mass Spectrometry

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

LC - High Pressure Liquid Chromatography

FAA - Flame Atomic Absorption

GFAA - Graphite Furnace Atomic Absorption

HYDRIDE - Gaseous Hydride Atomic Absorption

CVAA - Cold Vapor Atomic Absorption

ICP - Inductively Coupled Plasma

ICPMS - Inductively Coupled Plasma/Mass Spectrometry

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

DCP - Direct Current Plasma

COLOR – Colorimetric

# ATTACHMENT I - LIST OF PRIORITY POLLUTANTS

CTR	Paramotor	CAS	Suggested Analytical
Number	Parameter	Number	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
41	1,1,1-Trichloroethane	71556	EPA 8260B
42	1,12-Trichloroethane	79005	EPA 8260B

CTR Number	Parameter	CAS Number	Suggested Analytical Methods
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		191242	EPA 8270C
	Benzo(ghi)Perylene		
64	Benzo(k)Fluoranthene	207089	EPA 8270C
65	Bis(2- Chloroethoxy)Methane	111911	EPA 8270C
66	Bis(2-Chloroethyl)Ether	111444	EPA 8270C
67		108601	EPA 8270C
and the second sec	Bis(2-Chloroisopropyl)Ether	117817	
68	Bis(2-Ethylhexyl)Phthalate		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
<u> </u>	Di-n-Octyl Phthalate	117840	EPA 8270C
85	1,2-Diphenylhydrazine	122667	EPA 8270C
86	Fluoranthene	206440	EPA 8270C
87	Fluorene	86737	EPA 8270C

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CTR Number	Parameter	CAS Number	Suggested Analytical Methods
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

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