California Regional Water Quality Control Board



Los Angeles Region

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ORDER NO. R4-2005-0065 NPDES NO. CA0059285

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

Discharger	BP West Coast Products LLC (Owner) and BP Pipelines NA (Operator)				
Name of Facility	Long Beach Marine Terminal 1, Berth 121				
	620 Pier T Avenue, Berth 121				
Facility Address	Long Beach, CA 90802				
	Los Angeles County				

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

Discharge Point	Effluent Description	Discharge Latitude	Point	Discharge Longitude	Point	Receiving Water	
001	Storm water, washwater, tank hydrotest water	33 ° 45' 30" N		118°13'15" W		Long Beach Int Harbor	ner

This Order was adopted by the Regional Water Board on:	October 6, 2005
This Order shall become effective on:	November 6, 2005
This Order shall expire on:	September 10, 2010
The U.S. Environmental Protection Agency (USEPA) and the Regional Water a minor discharge.	Board have classified this discharge as
The Discharger shall file a Report of Waste Discharge in accordance with Tit not later than 180 days in advance of the Order expiration date as application requirements.	

IT IS HEREBY ORDERED, that Order No. 00-089 is rescinded upon the effective date of this Order except for enforcement purposes, and, in order to meet the provisions contained in Division 7 of the California Water Code (CWC) and regulations adopted thereunder, and the provisions of the federal Clean Water Act (CWA), and regulations and guidelines adopted thereunder, the Discharger shall comply with the requirements in this Order.

I, Jonathan S. Bishop, Executive Officer, do hereby certify the following is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Region, on October 6, 2005.

Jonathan S. Bishop, Executive Officer

Order 1

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

ORDER NO. R4-2005-0065 NPDES NO. CA0059285

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I. FACILITY INFORMATION

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

Discharger	BP West Coast Products LLC (owner) and BP Pipelines NA (operator)			
Name of Facility	Marine Terminal 1, Berth 121, LB, Long Beach			
	620 Pier "T" Avenue, Berth 121			
Facility Address	Long Beach, CA 90802			
	Los Angeles County			
Facility Contact, Title, and Phone	Stephen Comley, Health, Safety, Security & Environmental Advisor, (562) 499-2241			
Mailing Address	1300 Pier "B" Street, Long Beach, CA 90813			
Type of Facility	OTH (Other)			
Facility Design Flow	N/A			

II. FINDINGS

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

- A. **Background.** BP West Coast Products LLC and BP Pipelines NA (hereinafter Discharger) is currently discharging under Order No. 00-089 and National Pollutant Discharge Elimination System (NPDES) Permit No. CA0059285. The Discharger submitted a Report of Waste Discharge, dated December 2, 2004, and applied for a NPDES permit renewal to discharge up to 0.05 million gallons per day (MGD) of storm water, 0.001 MGD of wash water, and 0.168 MGD of tank hydrostatic test water from Long Beach Marine Terminal 1, Berth 121, hereinafter Facility.
- B. Facility Description. Long Beach Marine Terminal 1, Berth 121 is a marine petroleum terminal owned by BP West Coast Products LLC and operated by BP Pipelines NA. The Facility receives crude oil from tankers and pumps the crude oil to BP Carson Crude Terminal, Terminal 2, and the Carson Refinery. The facility intermittently discharges storm water, wash water, and tank hydrotest water through Discharge Point 001 to Long Beach Inner Harbor, a water of the United States. The facility has discharged once during the term of the previous permit.
- C. **Legal Authorities.** This Order is issued pursuant to section 402 of the Federal CWA and implementing regulations adopted by the USEPA and Chapter 5.5, Division 7 of the CWC. It shall serve as a NPDES permit for point source discharges from this facility to surface waters. This Order also serves as Waste Discharge Requirements (WDRs) pursuant to Article 4, Chapter 4 of the CWC for discharges that are not subject to regulation under CWA section 402.
- D. **Background and Rationale for Requirements**. The Regional Water Board developed the requirements in this Order based on information submitted as part of the application, through monitoring and reporting programs, and through special studies. Attachments A through J, which contain background information and rationale for Order requirements, are hereby incorporated into this Order and, thus, constitute part of the Findings for this Order.
- E. California Environmental Quality Act (CEQA). This action to adopt an NPDES permit is exempt from the provisions of the California Environmental Quality Act (Public Resources Code Section 21100, et seq.) in accordance with Section 13389 of the CWC.
- F. **Technology-based Effluent Limitations.** The Code of Federal Regulations (CFR) at 40 CFR \$122.44(a) requires that permits include applicable technology-based limitations and standards. This Order includes technology-based effluent limitations based on Best Professional Judgment (BPJ) in accordance with 40 CFR \$125.3. A detailed discussion of the technology-based effluent limitations development is included in the Fact Sheet (Attachment F).
- G. Water Quality-based Effluent Limitations. Section 122.44(d) of 40 CFR requires that permits include water quality-based effluent limitations (WQBELs) to attain and maintain applicable numeric and narrative water quality criteria to protect the beneficial uses of the receiving water. Where numeric water quality objectives have not been established, 40 CFR §122.44(d) specifies that WQBELs may be established using USEPA criteria guidance under CWA section 304(a),

proposed State criteria or a State policy interpreting narrative criteria supplemented with other relevant information, or an indicator parameter.

H. Water Quality Control Plans. The Regional Water Board adopted Water Quality Control Plan for the Coastal Watersheds of Los Angeles and Ventura Counties (hereinafter Basin Plan) that designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for all waters addressed through the plan. In addition, State Water Resources Control Board (State Water Board) Resolution No. 88-63 requires that, with certain exceptions, the Regional Water Board assign the municipal and domestic supply use to water bodies that do not have beneficial uses listed in the Basin Plan. Beneficial uses applicable to Long Beach Inner Harbor (hydrologic unit 405.12) based on the Basin Plan are as follows:

Discharge Point	Receiving Water Name	Beneficial Use(s)
001	Los Angeles - Long Beach Harbor (All Other Inner Harbors)	Existing: Industrial service supply (IND), navigation (NAV), non-contact water recreation (REC-2), commercial and sport fishing (COMM), marine habitat (MAR), rare and endangered species (RARE)
		Potential: Contact water recreation (REC-1), shellfish harvesting (SHELL)

The State Water Board adopted a *Water Quality Control Plan for Control of Temperature in the Coastal* and *Interstate Water and Enclosed Bays and Estuaries of California* (Thermal Plan) on May 18, 1972, and amended this plan on September 18, 1975. This plan contains temperature objectives for inland surface waters.

The 1994 Basin Plan provided water quality objectives for ammonia to protect aquatic life, in Table 3-1 through Table 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 Office of Administrative Law on September 14, 2004. The Basin Plan Amendment has not yet been approved by the USEPA. The revised criteria are not available for use until the aforementioned approval has been obtained." The ammonia Basin Plan amendment was approved by the Office of Administrative Law and the USEPA on September 14, 2004 and May 19, 2005, respectively. Ammonia is not a chemical of concern from the Long Beach Marine Terminal 1 Berth 121, hence this Order does not include limits or monitoring for this constituent.

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

I. National Toxics Rule (NTR) and California Toxics Rule (CTR). USEPA adopted the NTR on December 22, 1992, which was amended on May 4, 1995 and November 9, 1999, and the

CTR on May 18, 2000, which was amended on February 13, 2001. These rules include water quality criteria for priority pollutants and are applicable to this discharge.

- J. State Implementation Policy. On March 2, 2000, State Water Board adopted the Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California (State Implementation Policy or SIP). The SIP became effective on April 28, 2000, with respect to the priority pollutant criteria promulgated for California by the USEPA through the NTR and to the priority pollutant objectives established by the Regional Water Boards in their Basin Plans. The SIP became effective on May 22, 2000 with respect to the priority pollutant criteria promulgated by the USEPA through the California Toxics Rule. The State Water Board adopted amendments to the SIP o February 24, 2005 that became effective on July 13, 2005.
- K. Compliance Schedules and Interim Requirements. Section 2.1 of the SIP provides that, based on a discharger's request and demonstration that it is infeasible for an existing discharger to achieve immediate compliance with an effluent limitation derived from a CTR criterion, compliance schedules may be allowed in an NPDES permit. Unless an exception has been granted under Section 5.3 of the SIP, a compliance schedule may not exceed 5 years from the date that the permit is issued or reissued, nor may it extend beyond 10 years from the effective date of the SIP (or May 18, 2010) to establish and comply with CTR criterion-based effluent limitations. Where a compliance schedule for a final effluent limitation exceeds 1 year, the Order must include interim numeric limitations for that constituent or parameter. Where allowed by the Basin Plan, compliance schedules and interim effluent limitations or discharge specifications may also be granted to allow time to implement a new or revised water quality objective. This Order does not include compliance schedules and interim effluent limitations and/or discharge specifications. A detailed discussion of the basis for the compliance schedule(s) and interim effluent limitation(s) and/or discharge specifications is included in the Fact Sheet (Attachment F).
- L. **Antidegradation Policy.** Section 131.12 of 40 CFR requires that State water quality standards include an antidegradation policy consistent with the federal policy. The State Water Board established California's antidegradation policy in State Water Board Resolution No. 68-16, which incorporates the requirements of the federal antidegradation policy. Resolution No. 68-16 requires that existing quality of waters be maintained unless degradation is justified based on specific findings. As discussed in detail in the Fact Sheet (Attachment F) the permitted discharge is consistent with the antidegradation provision of 40 CFR §131.12 and State Water Board Resolution No. 68-16.
- M. Anti-Backsliding Requirements. Sections 402(o)(2) and 303(d)(4) of the CWA and federal regulations at 40 CFR § 122.44(l) prohibit backsliding in NPDES permits. These anti-backsliding provisions require effluent limitations in a reissued permit to be as stringent as those in the existing permit, with some exceptions where limitations may be relaxed. All effluent limitations in this Order are at least as stringent as the effluent limitations in the existing Order.
- N. **Monitoring and Reporting.** Section 122.48 of 40 CFR requires that all NPDES permits specify requirements for recording and reporting monitoring results. Sections 13267 and 13383 of the CWC authorize the Regional Water Boards to require technical and monitoring reports. The

Monitoring and Reporting Program (MRP) No. CI 6643 establishes monitoring and reporting requirements to implement federal and State requirements. This MRP is provided in Attachment E.

- O. **Standard and Special Provisions.** Standard Provisions, which in accordance with 40 CFR §§122.41and 122.42, apply to all NPDES discharges and must be included in every NPDES permit, are provided in Attachment D. The Regional Water Board has also included in this Order special provisions applicable to the Discharger. A rationale for the special provisions contained in this Order is provided in the attached Fact Sheet (Attachment F).
- P. 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 FR 24641, April 27, 2000). Under USEPA's new regulation (also known as the Alaska rule), new and revised standards submitted to USEPA after May 30, 2000, must be approved before being used for CWA purposes. The final rule also provides that standards already in effect and submitted to USEPA by May 30, 2000, may be used for CWA purposes, whether or not approved by USEPA.
- Q. **Notification of Interested Parties.** The Regional Water Board has notified the Discharger and interested agencies and persons of its intent to prescribe Waste Discharge Requirements for the discharge and has provided them with an opportunity to submit their written comments and recommendations. Details of notification are provided in the Fact Sheet (Attachment F) of this Order.
- R. **Consideration of Public Comment.** The Regional Water Board, in a public meeting, heard and considered all comments pertaining to the discharge. Details of the Public Hearing are provided in the Fact Sheet (Attachment F) of this Order.

III. DISCHARGE PROHIBITIONS

- A. Wastes discharged through Discharge Point 001 shall be limited to a maximum of 0.05 MGD of storm water from containment areas, 0.001 MGD of wash water, and 0.168 MGD of tank hydrostatic test water from the Facility as described in the Findings.
- B. Discharges of water, materials, thermal wastes, elevated temperature wastes, toxic wastes, deleterious substances, or wastes other than those authorized by this Order, to Long Beach Inner Harbor, or other waters of the State, are prohibited. The discharge of wastes from accidental spills or other sources is prohibited.
- C. Neither the treatment nor the discharge of pollutants shall create a pollution, contamination, or nuisance as defined by section 13050 of the CWC.
- D. Wastes discharged shall not contain any substances in concentrations toxic to human, animal, plant, or aquatic life.
- E. The discharge shall not cause a violation of any applicable water quality standards for receiving waters adopted by the Regional Water Board or the State Water 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 001

1. Final Effluent Limitations - Discharge Point 001

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

BP WEST COAST PRODUCT LLC
MARINE TERMINAL 1, Berth 121, LONG BEACH
ORDER NO. R4-2005-XXX
NPDES NO. CA0059285

		Final Effluent Limitations			
Parameter	Units	Average	Maximum	Instantaneous	Instantaneous
		Monthly	Daily	Minimum	Maximum
Biochemical Oxygen Demand	mg/L		30		
5-day @ 20°C (BOD)	lbs/day ¹		13		
Oil and Grease	mg/L		15		
On and Grease	lbs/day ¹		6.3		
pН	standard units			6.5	8.5
Total Suspended Solids (TSS)	mg/L		75		
Total Suspended Solids (133)	lbs/day ¹		31		
Cadmium, Total Recoverable	μg/L		15		
Cadillulli, Total Recoverable	lbs/day ¹		0.0063		
Chromium (VI)	μg/L		83		
Cinomium (VI)	lbs/day ¹		0.035		
Lead, Total Recoverable	μg/L		14		
Lead, Total Recoverable	lbs/day ¹		0.0058		
Zinc, Total Recoverable	μg/L		95		
Zilic, Total Recoverable	lbs/day ¹		0.04		
Flow	MGD		0.05		
Phenols	μg/L		5.0		
r licitots	lbs/day ¹		0.0021		
Temperature	°F		86		
Turbidity	NTU		75		

¹ Based on a flow of 0.05 MGD

b. The discharge of wash water shall maintain compliance with the following effluent limitations at Discharge Point 001, with compliance measured at Monitoring Locations M-001, as described in the attached MRP (Attachment E):

		Final Effluent Limitations			
Parameter	Units	Average Monthly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Biochemical Oxygen Demand	mg/L		30		
5-day @ 20°C (BOD)	lbs/day ¹		0.25		
Oil and Grease	mg/L		15		
On and Grease	lbs/day ¹		0.13		
pH	standard units			6.5	8.5
T-4-1 C	mg/L		75		
Total Suspended Solids (TSS)	lbs/day ¹		0.63		
Codminus Total Bassassahla	μg/L		15		
Cadmium, Total Recoverable	lbs/day ¹		0.00013		
Characteristic (VII)	μg/L		83		
Chromium (VI)	lbs/day ¹		0.00069		
Land Tatal Danasankla	μg/L		14		
Lead, Total Recoverable	lbs/day ¹		0.00012		
Zina Tatal Dagananahla	μg/L		95		
Zinc, Total Recoverable	lbs/day ¹		0.0008		
Discuss 1	μg/L		5.0		
Phenol	lbs/day ¹		0.000042		
Flow	MGD		0.001		
Temperature	°F		86		
Turbidity	NTU		75		

Based on a flow of 0.001 MGD

c. The discharge of tank hydrotest water shall maintain compliance with the following effluent limitations at Discharge Point 001, with compliance measured at Monitoring Locations M-001, as described in the attached MRP (Attachment E):

		Final Effluent Limitations			
Parameter	Units	Average Monthly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Biochemical Oxygen Demand	mg/L		30		
5-day @ 20°C (BOD)	lbs/day ¹		42		

		Final Effluent Limitations				
Parameter	Units	Average Monthly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum	
Oil and Grease	mg/L		15			
On and Grease	lbs/day ¹		21			
pH	standard units			6.5	8.5	
Total Susmanded Solide (TSS)	mg/L		75			
Total Suspended Solids (TSS)	lbs/day ¹		105			
Codmium Total Basayamahla	μg/L		15			
Cadmium, Total Recoverable	lbs/day ¹		0.021			
Character (VII)	μg/L		83			
Chromium (VI)	lbs/day ¹		0.12			
Y 1.77 . 1.75 . 1.1	μg/L		14			
Lead, Total Recoverable	lbs/day ¹		0.020			
Zina Tatal Dagayamahla	μg/L		95			
Zinc, Total Recoverable	lbs/day ¹		0.13			
Dhanal	μg/L		5			
Phenol	lbs/day ¹		0.0070			
Flow	MGD		0.168			
Temperature	°F		86			
Turbidity	NTU		75			

¹ Based on a flow of 0.168 MGD

d. Acute Toxicity Limitation and Requirements:

- 1. 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 tests shall be at least 90%, and (ii) no single test producing less than 70 % survival.
- 2. If either of the above requirements (Section V.A.1.d.1) is not met, the Discharger shall conduct six additional tests over a six-week period. The discharger shall ensure that they receive results of a failing acute toxicity test within 24 hours of the close of the test and the additional tests shall begin within 3 business days of the receipt of the result. If the additional tests indicate compliance with acute toxicity limitation, the discharger may resume regular testing. However, if the results of any two of the six accelerated tests are less than 90% survival, then the Discharger shall begin a Toxicity

Identification Evaluation (TIE). 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 objective.

- 3. If the initial test and any of the additional six acute toxicity bioassay test result in less than 70% survival, including the initial test, the Discharger shall immediately begin a TIE.
- 4. The Discharger shall conduct acute toxicity monitoring as specified in Monitoring and Reporting Program No. 6643
- e. Chronic Toxicity Limitation and Requirements:
 - 1. This Order includes a chronic testing toxicity trigger defined as an exceedance of $1.0~\rm TU_c$ in a critical life stage test for 100% effluent. (The monthly median for chronic toxicity of 100% effluent shall not exceed $1.0~\rm TU_c$ in a critical life stage test.)
 - 2. If the chronic toxicity of the effluent exceeds 1.0 TU_c, the Discharger shall immediately implement an accelerated chronic toxicity testing according to MRP No. 6643, Section IV.D. If the results of two of the six accelerated tests exceed 1.0 TU_c, the Discharger shall initiate a TIE and implement the <u>Initial Investigation TRE Workplan</u>. (see MRP No. 6643, Section V.E.).
 - 3. The Discharger shall conduct chronic toxicity monitoring as specified in MRP No. 6643.
 - 4. The chronic toxicity of the effluent shall be expressed and reported in toxic units, where:

$$TU_c = \frac{100}{NOEC}$$

The No Observable Effect Concentration (NOEC) is expressed as the maximum percent effluent concentration that causes no observable effect on test organisms, as determined by the results of a critical life stage toxicity test.

- 5. Preparation of an Initial Investigation TRE Workplan
 - i. The Discharger shall submit a detailed initial investigation Toxicity Reduction Evaluation (TRE) workplan to the Executive Officer of the Regional Board for approval within 90 days of the effective date of this permit. The Discharger shall use EPA manuals EPA/600/2-88/070 (industrial) or EPA/833B-99/002 (municipal) as guidance or current versions. At a minimum, the TRE workplan must contain the provisions in Attachment C. This workplan shall describe the steps the Discharger intends to follow if toxicity is detected, and should include, at a minimum; the elements described in ii through iv below.
 - ii. A description of the investigation and evaluation techniques that would be used to identify potential causes and sources of toxicity, effluent variability, and treatment system efficiency;
 - iii. 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 operation of the facility; and,
 - iv. If a toxicity identification evaluation (TIE) is necessary, an indication of the person who would conduct the TIEs (i.e., an in-house expert or an outside contractor) (See MRP Section V.G.3. for guidance manuals).
- B. Land Discharge Specifications Not Applicable
- C. Reclamation Specifications Not Applicable

V. RECEIVING WATER LIMITATIONS

A. Surface Water Limitations

Receiving water limitations are based on water quality objectives contained in the Basin Plan and are a required part of this Order. The discharge shall not cause the following in Long Beach 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. 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 % of the dissolved oxygen content at saturation.
- 3. Surface water temperature to rise greater than 5° F above the natural temperature of the receiving waters at any time or place. At no time the temperature shall be raised above 80° F as a result of waste discharged.
- 4. Exceed total ammonia (as N) concentrations specified in the Regional Water Board Resolution No. 2002-011. Resolution No. 2002-011 revised the ammonia criteria in the 1994 Basin Plan, to be consistent with the 1999 USEPA update on ammonia criteria. Adopted on April 28, 2002, Resolution No. 2002-011 was approved by State Water Board, Office of Administrative Law (OAL) and USEPA on April 30, 2003, June 5, 2003, and June 19, 2003, respectively and is now in effect.
- 5. The presence of visible, floating, suspended or deposited macroscopic particulate matter or foam.
- 6. Oils, greases, waxes, or other materials in concentrations that result in a visible film or coating on the surface of the receiving water or on objects in the water.
- 7. Suspended or settleable materials, chemical substances or pesticides in amounts that cause nuisance or adversely affect any designated beneficial use.
- 8. Toxic or other deleterious substances in concentrations or quantities which cause deleterious effects on aquatic biota, wildlife, or waterfowl or render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.
- 9. Accumulation of bottom deposits or aquatic growths.
- 10. Biostimulatory substances at concentrations that promote aquatic growth to the extent that such growth causes nuisance or adversely affects beneficial uses.
- 11. The presence of substances that result in increases of biochemical oxygen demand that adversely affect beneficial uses.

- 12. Taste or odor-producing substances in concentrations that alter the natural taste, odor, and/or color of fish, shellfish, or other edible aquatic resources; cause nuisance; or adversely affect beneficial uses.
- 13. Alteration of turbidity, or apparent color beyond present natural background levels.
- 14. Damage, discolor, nor cause formation of sludge deposits on flood control structures or facilities nor overload the design capacity.
- 15. Degrade surface water communities and populations including vertebrate, invertebrate, and plant species.
- 16. Problems associated with breeding of mosquitoes, gnats, black flies, midges, or other pests.
- 17. Create nuisance, or adversely effect beneficial uses of the receiving water.
- 18. Violation of any applicable water quality standards for receiving waters adopted by the Regional Water Board or State Water Board. If more stringent applicable water quality standards are promulgated or approved pursuant to 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

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

VI. PROVISIONS

A. Standard Provisions

- 1. **Federal Standard Provisions.** The Discharger shall comply with all Standard Provisions included in Attachment D of this Order.
- 2. **Regional Water Board Standard Provisions.** The Discharger shall comply with the following provisions:
 - a. This Order may be modified, revoked, reissued, or terminated in accordance with the provisions of 40 CFR §§ 122.44, 122.62, 122.63, 122.64, 125.62 and 125.64. Causes for taking such actions include, but are not limited to: failure to comply with any condition of this Order; endangerment to human health or the environment resulting from the permitted activity; or acquisition of newly-obtained information which would have justified the application of different conditions if known at the time of Order adoption. The filing of a request by the Discharger for an Order modification, revocation, and issuance or termination, or a notification of planned changes or anticipated noncompliance does not stay any condition of this Order.
 - b. The Discharger must comply with the lawful requirements of municipalities, counties, drainage districts, and other local agencies regarding discharges of storm water to storm drain systems or other water courses under their jurisdiction; including applicable requirements in municipal storm water management program developed to comply with NPDES permits issued by the Regional Water Board to local agencies.
 - c. Discharge of wastes to any point other than specifically described in this Order and permit is prohibited and constitutes a violation thereof.
 - d. The Discharger shall comply with all applicable effluent limitations, national standards of performance, toxic effluent standards, and all federal regulations established pursuant to Sections 301, 302, 303(d), 304, 306, 307, 316, 318, 405, and 423 of the 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:
 - 1. Violation of any term or condition contained in this Order;
 - 2. Obtaining this Order by misrepresentation, or failure to disclose all relevant facts; and
 - 3. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- i. If there is any storage of hazardous or toxic materials or hydrocarbons at this facility and if the facility is not manned at all times, a 24-hour emergency response telephone number shall be prominently posted where it can easily be read from the outside.
- j. The Discharger shall notify the Regional Water Board not later than 120 days in advance of implementation of any plans to alter production capacity of the product line of the manufacturing, producing or processing facility by more than 10 %. Such notification shall include estimates of proposed production rate, the type of process, and projected effects on effluent quality. Notification shall include submittal of a new report of waste discharge appropriate filing fee.
- k. The Discharger shall file with the Regional Water Board a report of waste discharge at least 120 days before making any material change or proposed change in the character, location or volume of the discharge.
- 1. 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 the 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 CWC provides that any person who violates a waste discharge requirement or a provision of the CWC is subject to civil penalties of up to \$5,000 per day, \$10,000 per day, or \$25,000 per day of violation, or when the violation involves the discharge of pollutants, is subject to civil penalties of up to \$10 per gallon per day or \$25 per gallon per day of violation; or some combination thereof, depending on the violation, or upon the combination of violations.

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 planned discharge of any chemical, other than the products previously reported to the Executive Officer, which may be toxic to aquatic life. Such notification shall include:
 - 1. Name and general composition of the chemical,
 - 2. Frequency of use,
 - 3. Quantities to be used,
 - 4. Proposed discharge concentrations, and
 - 5. USEPA registration number, if applicable.

B. Monitoring and Reporting Program Requirements

The Discharger shall comply with the MRP, and future revisions thereto, in Attachment E of this Order. If there is any conflict between provisions stated in the MRP and the Regional Water Board Standard Provisions, those provisions stated in the MRP shall prevail.

C. Special Provisions

1. Reopener Provisions

- a. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the 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 (RPA).

- c. This Order may be reopened and modified, to incorporate in accordance with the provisions set forth in 40 CFR Parts 122 and 124, to include requirements for the implementation of the watershed management approach or to include new Minimum Levels (MLs).
- d. This Order may be reopened and modified to revise effluent limitations as a result of future Basin Plan Amendments, such as an update of an objective or the adoption of a total maximum daily loads (TMDL) for the Long Beach Harbor Main Channel, SE, W. Basin, Pier J, and Breakwater.
- e. This Order may be reopened upon submission by the Discharger of adequate information, as determined by the Regional Water Board, to provide for dilution credits or a mixing zone, as may be appropriate.

2. Special Studies, Technical Reports and Additional Monitoring Requirements

a. **Acute Toxicity Monitoring Requirements.** This Order contains a narrative effluent limit which states:

There shall be no acute or chronic toxicity in the discharge. 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 tests shall be at least ninety percent (90%) and no single test producing less than 70% survival. Compliance with the toxicity objectives will be determined by the method described in MRP in Attachment E.

This criteria is satisfied by measuring Acute Toxicity in the effluent. If the effluent exceeds the criteria stated, the Discharger is to initiate a Toxicity Reduction Evaluation (TRE) as stipulated in the TRE Workplan and begin accelerated monitoring by conducing six additional tests, once approximately every two weeks, over a twelve week period.

The specific instructions for conducting the TRE, the accelerated monitoring and for reporting the results appear in Sections V.E through V.H of the MRP (Attachment E).

b. Chronic Toxicity Trigger and Monitoring Requirements. The Order contains a chronic toxicity trigger defined as an exceedance of 1.0 chronic toxicity unit (TU_c) in a critical life stage test for 100% effluent. (The monthly median for chronic toxicity of 100% effluent shall not exceed, 1 TU_c in a critical life stage test.) The Discharger shall monitor the effluent annually for chronic toxicity to determine the presence of chronic toxicity. If the chronic toxicity of the effluent exceeds 1.0 TU_c (defined in Section V.A of the MRP, Attachment E), the Discharger shall immediately implement accelerated chronic toxicity testing, as required in Section V of the MRP, Attachment E).

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

3. Best Management Practices and Pollution Prevention

- a. Storm Water Pollution Prevention Plan (SWPPP) and Best Management Practices Plan (BMPP). The Discharger shall submit, within 90 days of the effective date of this Order:
 - 1. 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 directly to waters of the State. The SWPPP shall be developed in accordance with the requirements in *Storm Water Pollution Prevention Plan Requirements* (Attachment G).
 - 2. A BMPP that entails site-specific plans and procedures implemented and/or to be implemented to prevent hazardous waste/material from being discharged to waters of the State. The BMPP shall be consistent with the general guidance contained in the USEPA's Guidance Manual for Developing Best Management Practices (BMPs) (EPA 833-B-93-004). In particular, a risk assessment of each area identified by the Discharger shall be performed to determine the potential of hazardous or toxic waste/material discharge to surface waters. In addition, the BMPP shall include a provision to research alternative methods for disposal of non-storm water discharges (e.g., wash water and tank hydrotest water). The BMPP should address employee education and training, record maintenance including observation records and preventative maintenance records, and notification of spills to the Regional Water Board.
 - 3. The Discharger shall submit a Spill Contingency Plan. The Spill Contingency Plan shall be site-specific and shall cover all areas of the facility. The Spill Contingency Plan shall be reviewed at the same time as the SWPPP and BMPP.

The Plans shall be implemented no later than 6 months after the date of adoption of this Order. 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]

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 ML (see Reporting Requirement in Section X of the MRP, Attachment E), 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 "Not Detected" (ND) or "Detected, but Not Quantified" (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 ND and the estimated concentration for DNQ for the calculation of the monthly average concentration. To be consistent with Section VII.B of this Order, if all pollutants belonging to the same group are reported as ND or DNQ, the sum of the individual pollutant concentrations should be considered as zero for the calculation of the monthly average concentration.

E. Maximum Daily Effluent Limitation (MDEL).

If a daily discharge exceeds the MDEL for a given parameter, an alleged violation will be flagged and the discharger will be considered out of compliance for that parameter for that 1 day only within the reporting period. For any 1 day during which no sample is taken, no compliance determination can be made for that day.

F. Instantaneous Minimum Effluent Limitation.

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

G. Instantaneous Maximum Effluent Limitation.

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

ATTACHMENT A – DEFINITIONS, ACRONYMS, AND ABBREVIATIONS

DEFINITIONS

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

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

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

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

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

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

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

ACRONYMS AND ABBREVIATIONS

AMEL Average Monthly Effluent Limitation

B Background Concentration

BAT Best Available Technology Economically Achievable

Basin Plan 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 BP West Coast Products LLC (owner) and BP Pipelines (operator)

DMR Discharge Monitoring Report
DNQ Detected But Not Quantified
ECA Effluent Concentration Allowance

ELAP California Department of Health Services Environmental Laboratory

Accreditation Program

ELG Effluent Limitations, Guidelines and Standards Facility Long Beach Marine Terminal, Berth 121

gpd gallons per day
IC Inhibition Coefficient

 IC_{15} Concentration at which the organism is 15% inhibited IC_{25} Concentration at which the organism is 25% inhibited IC_{40} Concentration at which the organism is 40% inhibited IC_{50} Concentration at which the organism is 50% inhibited

LA Load Allocations

LOEC Lowest Observed Effect Concentration

LTA Long-Term Average 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

NSPS New Source Performance Standards

NTR National Toxics Rule

OAL Office of Administrative Law POTW Publicly Owned Treatment Works PMP Pollutant Minimization Plan

QA Quality Assurance

QA/QC Quality Assurance/Quality Control

Regional Water Board California Regional Water Quality Control Board, Los Angeles 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 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

 $\begin{array}{ccc} TSS & Total \ Suspended \ Solid \\ TU_a & Acute \ Toxicity \ Unit \\ TU_c & Chronic \ Toxicity \ Unit \end{array}$

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

% Percent

ATTACHMENT B - TOPOGRAPHIC MAP

ATTACHMENT C – FLOW SCHEMATIC

ATTACHMENT D – FEDERAL STANDARD PROVISIONS

I. STANDARD PROVISIONS - PERMIT COMPLIANCE

A. Duty to Comply

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

B. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a Discharger in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Order [40 CFR $\S122.41(c)$].

C. Duty to Mitigate

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

D. Proper Operation and Maintenance

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

E. Property Rights

1. This Order does not convey any property rights of any sort or any exclusive privileges [40 $CFR \ \S 122.41(g)$].

2. The issuance of this Order does not authorize any injury to persons or property or invasion of other private rights, or any infringement of State or local law or regulations [40 CFR $\S122.5(c)$].

F. Inspection and Entry

The Discharger shall allow the Regional Water Board, State Water Board, USEPA, and/or their authorized representatives (including an authorized contractor acting as their representative), upon the presentation of credentials and other documents, as may be required by law, to [40 CFR §122.41(i)] [CWC 13383(c)]:

- 1. Enter upon the Discharger's premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this Order [40 CFR §122.41(i)(1)];
- 2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order [40 CFR $\S122.41(i)(2)$];
- 3. Inspect and photograph, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order [40 CFR §122.41(i)(3)];
- 4. Sample or monitor, at reasonable times, for the purposes of assuring Order compliance or as otherwise authorized by the CWA or the CWC, any substances or parameters at any location [40 CFR §122.41(i)(4)].

G. Bypass

1. Definitions

- a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility [40 CFR $\S122.41(m)(1)(i)$].
- b. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities, which causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production [40 CFR §122.41(m)(1)(ii)].
- 2. Bypass not exceeding limitations The Discharger may allow any bypass to occur which does not cause exceedances of effluent limitations, but only if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions listed in Standard Provisions Permit Compliance I.G.3 and I.G.5 below [40 CFR §122.41(m)(2)].
- 3. Prohibition of bypass Bypass is prohibited, and the Regional Water Board may take enforcement action against a Discharger for bypass, unless $[40 \ CFR \ \S 122.41(m)(4)(i)]$:

- a. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage $[40 \ CFR \ \S 122.41(m)(4)(A)];$
- b. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance $[40 \ CFR \ 122.41(m)(4)(B)]$; and
- c. The Discharger submitted notice to the Regional Water Board as required under Standard Provision Permit Compliance I.G.5 below $[40 \ CFR \ \S 122.41(m)(4)(C)]$.
- 4. The Regional Water Board may approve an anticipated bypass, after considering its adverse effects, if the Regional Water Board determines that it will meet the three conditions listed in Standard Provisions Permit Compliance I.G.3 above [40 CFR §122.41(m)(4)(ii)].

5. Notice

- a. Anticipated bypass. If the Discharger knows in advance of the need for a bypass, it shall submit a notice, if possible at least 10 days before the date of the bypass [40 CFR $\S122.41(m)(3)(i)$].
- b. Unanticipated bypass. The Discharger shall submit notice of an unanticipated bypass as required in Standard Provisions Reporting V.E below [40 CFR §122.41(m)(3)(ii)].

H. Upset

Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation [40 CFR $\S122.41(n)(1)$].

- 1. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph H.2 of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review [40 CFR §122.41(n)(2)].
- 2. Conditions necessary for a demonstration of upset. A Discharger who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence that $[40 \ CFR \ \$122.41(n)(3)]$:
 - a. An upset occurred and that the Discharger can identify the cause(s) of the upset [40 CFR $\S122.41(n)(3)(i)$];

- b. The permitted facility was, at the time, being properly operated [40 CFR $\S122.41(n)(3)(i)$];
- c. The Discharger submitted notice of the upset as required in Standard Provisions Reporting V.E.2.b [40 CFR §122.41(n)(3)(iii)]; and
- d. The Discharger complied with any remedial measures required under Standard Provisions Permit Compliance I.C above [40 CFR §122.41(n)(3)(iv)].
- 3. Burden of proof. In any enforcement proceeding, the Discharger seeking to establish the occurrence of an upset has the burden of proof $[40 \ CFR \ \S 122.41(n)(4)]$.

II. STANDARD PROVISIONS - PERMIT ACTION

A. General

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

B. Duty to Reapply

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

C. Transfers

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

III. STANDARD PROVISIONS - MONITORING

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

IV. STANDARD PROVISIONS - RECORDS

A. Except for records of monitoring information required by this Order related to the Discharger's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503), the Discharger shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this Order, and records of all data used to complete the application for this Order, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Regional Water Board Executive Officer at any time [40 CFR §122.41(j)(2)].

B. Records of monitoring information shall include:

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

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

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

V. STANDARD PROVISIONS - REPORTING

A. Duty to Provide Information

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

B. Signatory and Certification Requirements

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

of this provision, or by a duly authorized representative of that person. A person is a duly authorized representative only if:

- a. The authorization is made in writing by a person described in paragraph (2.) of this provision $[40 \ CFR \ \$122.22(b)(1)];$
- b. The authorization specified either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company (a duly authorized representative may thus be either a named individual or any individual occupying a named position) [40 CFR §122.22(b)(2)]; and
- c. The written authorization is submitted to the Regional Water Board, State Water Board, or USEPA [40 CFR §122.22(b)(3)].
- 4. If an authorization under paragraph (3.) of this provision is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph (3.) of this provision must be submitted to the Regional Water Board, State Water Board or USEPA prior to or together with any reports, information, or applications, to be signed by an authorized representative [40 CFR §122.22(c)].
- 5. Any person signing a document under paragraph (2.) or (3.) of this provision shall make the following certification:

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

C. Monitoring Reports

- 1. Monitoring results shall be reported at the intervals specified in the MRP in this Order [40 $CFR \ \S 122.41(l)(4)$].
- 2. Monitoring results must be reported on a Discharge Monitoring Report (DMR) form or forms provided or specified by the Regional Water Board or State Water Board for reporting results of monitoring of sludge use or disposal practices [40 CFR §122.41(l)(4)(i)].
- 3. If the Discharger monitors any pollutant more frequently than required by this Order using test procedures approved under 40 CFR Part 136 or, in the case of sludge use or disposal, approved under 40 CFR Part 136 unless otherwise specified in 40 CFR Part 503, or as

specified in this Order, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the Regional Water Board $[40 \ CFR \ \$122.41(l)(4)(ii)]$.

4. Calculations for all limitations, which require averaging of measurements, shall utilize an arithmetic mean unless otherwise specified in this Order [40 CFR §122.41(1)(4)(iii)].

D. Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Order, shall be submitted no later than 14 days following each schedule date [40 CFR §122.41(1)(5)].

E. Twenty-Four Hour Reporting

- 1. The Discharger shall report any noncompliance that may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the Discharger becomes aware of the circumstances. A written submission shall also be provided within five (5) days of the time the Discharger becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance [40 CFR §122.41(l)(6)(i)].
- 2. The following shall be included as information that must be reported within 24 hours under this paragraph $[40 \ CFR \ \S 122.41(l)(6)(ii)]$:
 - a. Any unanticipated bypass that exceeds any effluent limitation in this Order [40 CFR $\S122.41(l)(6)(ii)(A)$].
 - b. Any upset that exceeds any effluent limitation in this Order [40 CFR $\S122.41(l)(6)(ii)(B)$].
 - c. Violation of a maximum daily discharge limitation for any of the pollutants listed in this Order to be reported within 24 hours [40 CFR §122.41(l)(6)(ii)(C)].
- 3. The Regional Water Board may waive the above-required written report under this provision on a case-by-case basis if an oral report has been received within 24 hours [40 CFR §122.41(l)(6)(iii)].

F. Planned Changes

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

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

G. Anticipated Noncompliance

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

H. Other Noncompliance

The Discharger shall report all instances of noncompliance not reported under Standard Provisions – Reporting E.3, E.4, and E.5 at the time monitoring reports are submitted. The reports shall contain the information listed in Standard Provision – Reporting V.E [40 CFR $\S122.41(l)(7)$].

I. Other Information

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

VI. STANDARD PROVISIONS - ENFORCEMENT

A. The CWA provides that any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed \$25,000 per day for each violation. The CWA provides that any person who negligently violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of \$2,500 to \$25,000 per day of violation, or imprisonment of not more than

- one (1) year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than \$50,000 per day of violation, or by imprisonment of not more than two (2) years, or both. Any person who knowingly violates such sections, or such conditions or limitations is subject to criminal penalties of \$5,000 to \$50,000 per day of violation, or imprisonment for not more than three (3) years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than \$100,000 per day of violation, or imprisonment of not more than six (6) years, or both. Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than \$500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than \$1,000,000 and can be fined up to \$2,000,000 for second or subsequent convictions [40 CFR] [CWC 13385] and [CWC 13385].
- **B.** Any person may be assessed an administrative penalty by the Regional Water Board for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Administrative penalties for Class I violations are not to exceed \$10,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed \$25,000. Penalties for Class II violations are not to exceed \$10,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed \$125,000 [40 CFR \$122.41(a)(3)].
- C. The CWA provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than 2 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years, or both [40 CFR §122.41(j)(5)].
- **D.** The CWA provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this Order, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six months per violation, or by both [40 CFR §122.41(k)(2)].

VII. ADDITIONAL PROVISIONS - NOTIFICATION LEVELS

A. Non-Municipal Facilities

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

- 1. That any activity has occurred or will occur that would result in the discharge, on a routine or frequent basis, of any toxic pollutant that is not limited in this Order, if that discharge will exceed the highest of the following "notification levels" [40 CFR §122.42(a)(1)]:
 - a. $100 \mu g/L [40 CFR \S 122.42(a)(1)(i)];$
 - b. 200 μg/L for acrolein and acrylonitrile; 500 μg/L for 2,4-dinitrophenol and 2-methyl-4,6-dinitrophenol; and 1 milligram per liter (mg/L) for antimony [40 CFR §122.42(a)(1)(ii)];
 - c. Five (5) times the maximum concentration value reported for that pollutant in the Report of Waste Discharge [40 CFR §122.42(a)(1)(iii)]; or
 - d. The level established by the Regional Water Board in accordance with 40 CFR §122.44(f) [40 CFR §122.42(a)(1)(iv)].
- 2. That any activity has occurred or will occur that would result in the discharge, on a non-routine or infrequent basis, of any toxic pollutant that is not limited in this Order, if that discharge will exceed the highest of the following "notification levels" [40 CFR §122.42(a)(2)]:
 - a. $500 \mu g/L [40 CFR \S 122.42(a)(2)(i)];$
 - b. 1 mg/L for antimony [40 CFR $\S122.42(a)(2)(ii)$];
 - c. Ten (10) times the maximum concentration value reported for that pollutant in the Report of Waste Discharge [40 CFR §122.42(a)(2)(iii)]; or
 - d. The level established by the Regional Water Board in accordance with 40 CFR §122.44(f) [40 CFR §122.42(a)(2)(iv)].

B. Publicly-Owned Treatment Works (POTWs)

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

1. Any new introduction of pollutants into the POTW from an indirect discharger that would be subject to Sections 301 or 306 of the CWA if it were directly discharging those pollutants [40 CFR §122.42(b)(1)]; and

2. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of adoption of the Order $[40 \ CFR \ \S 122.42(b)(2)]$.

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

ATTACHMENT E - MONITORING AND REPORTING PROGRAM (MRP) NO. 6643

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ATTACHMENT E – MONITORING AND REPORTING PROGRAM (MRP) NO. 6643

40 CFR §122.48 requires that all NPDES permits specify monitoring and reporting requirements. CWC sections 13267 and 13383 also authorize the Regional Water Quality Control Boards to require technical and monitoring reports. This MRP establishes monitoring and reporting requirements which implement the federal and California regulations.

I. GENERAL MONITORING PROVISIONS

- A. An effluent sampling station shall be established for the point of discharge (Discharge Point 001 at Latitude 33° 45′ 30″ N and Longitude 118°, 13′, 15″ 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. This Regional Water Board shall be notified in writing of any change in the sampling stations once established or in the methods for determining the quantities of pollutants in the individual waste streams.
- D. Pollutants shall be analyzed using the analytical methods described in 40 CFR §§136.3, 136.4, and 136.5 (revised May 14, 1999); or, where no methods are specified for a given pollutant, by methods approved by this Regional Water Board or the State Water Board. Laboratories analyzing effluent samples and receiving water samples shall be certified by the California Department of Health Services 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 USEPA guidelines or in the MRP, the constituent or parameter analyzed and the method or procedure used must be specified in the monitoring report.
- F. Each monitoring report must affirm in writing that "all analyses were conducted at a laboratory certified for such analyses by the Department of Health Services or approved by the Executive Officer and in accordance with current USEPA guideline procedures or as specified in this MRP".
- G. The monitoring reports shall specify the analytical method used, the MDL, and the ML for each pollutant. For the purpose of reporting compliance with numerical limitations, performance goals, and receiving water limitations, analytical data shall be reported by one of the following methods, as appropriate:
 - 1. An actual numerical value for sample results greater than or equal to the ML; or

- 2. "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, March 2, 2000.

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

The Regional Water Board, in consultation with the State Water Board Quality Assurance Program, shall establish a ML that is not contained in Attachment A 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 May 14, 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 40 CFR §136.3. All QA/QC items must be run on the same dates the samples were actually analyzed, and the results shall be reported in the Regional Water Board format, when it becomes

- available, and submitted with the laboratory reports. Proper chain of custody procedures must be followed, and a copy of the chain of custody shall be submitted with the report.
- J. All analyses shall be accompanied by the chain of custody, including but not limited to data and time of sampling, sample identification, and name of person who performed sampling, date of analysis, name of person who performed analysis, QA/QC data, method detection limits, analytical methods, copy of laboratory certification, and a perjury statement executed by the person responsible for the laboratory.
- K. The Discharger shall calibrate and perform maintenance procedures on all monitoring instruments and to insure accuracy of measurements, or shall insure that both equipment activities will be conducted.
- L. The Discharger shall have, and implement, an acceptable written quality assurance (QA) plan for laboratory analyses. The annual monitoring report required in Section X.D shall also summarize the QA activities for the previous year. Duplicate chemical analyses must be conducted on a minimum of 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 limitations are specified and the monitoring frequency is less than four times a month, the following shall apply. If an analytical result is greater than the 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.

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 Po Name	oint	Monitoring Location Name	Monitoring Location Description (include Latitude and Longitude when available)
001		M-001	Shall be located at Discharge Point 001 at latitude 33° 45' 30" N and longitude 118°, 13', 15" W.
		R-001	Shall be located more than 100 feet from the point of discharge at Discharge Point 001.

III. INFLUENT MONITORING REQUIREMENTS [Not Applicable]

IV. EFFLUENT MONITORING REQUIREMENTS

A. Monitoring Location M-001

1. The Discharger shall monitor discharge of storm water, wash water, and tank hydrotest water at M-001 as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Biochemical Oxygen Demand 5-day @ 20°C (BOD)	mg/L	Grab	1/Discharge ¹	2
Oil and Grease	mg/L	Grab	1/Discharge ¹	2
pH	standard units	Grab	1/Discharge ¹	2
Total Suspended Solids (TSS)	mg/L	Grab	1/Discharge ¹	2
Cadmium, Total Recoverable	μg/L	Grab	1/Discharge ¹	2
Chromium (VI)	μg/L	Grab	1/Discharge ¹	2
Lead, Total Recoverable	μg/L	Grab	1/Discharge ¹	2
Zinc, Total Recoverable	μg/L	Grab	1/Discharge ¹	2
Benzene	μg/L	Grab	1/Discharge ¹	2
Ethylbenzene	μg/L	Grab	1/Discharge ¹	2
Toluene	μg/L	Grab	1/Discharge ¹	2
Phenols	μg/L	Grab	1/Discharge ¹	2
Acute Toxicity ³	% survival	Grab	1/Discharge ¹	2

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Chronic Toxicity ³	TU _c	Grab	1/Year	2
Flow ¹	gallons/day	Grab	1/Discharge ¹	2
MTBE	mg/L	Grab	1/Discharge ¹	2
Temperature	°F	Grab	1/Discharge ¹	2
Turbidity	NTU	Grab	1/Discharge ¹	2
Xylene	μg/L	Grab	1/Discharge ¹	2
Remaining Priority Pollutants ⁴	μg/L	Grab	1/Year ⁵	2

¹ For each discharge, the Discharger shall report the type of wastewater discharged (storm water, wash water, tank hydrotest water, or some combination of the three types of wastewater). Each separate period of discharge shall be sampled, but no more than one sample per week is required. Flow shall be recorded daily during each period of discharge.

V. WHOLE EFFLUENT TOXICITY TESTING REQUIREMENTS

A. Definition of Toxicity

1. Acute Toxicity.

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

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

2. Chronic Toxicity.

Chronic toxicity measures a sublethal effect (e.g., reduced growth, reproduction) to experimental test organisms exposed to an effluent or ambient waters compared to that of the control organisms. Chronic toxicity shall be measured in TU_c , where $TU_c = 100/NOEC$. The No Observable Effect Concentration (NOEC) is expressed as the maximum percent effluent concentration that causes no observable effect on test organisms, as determined by the results of a critical life stage toxicity test.

a. This Order includes a chronic testing toxicity trigger defined as an exceedance of $1.0~\rm TU_c$ in a critical life stage test for 100% effluent. (The monthly median for chronic toxicity of 100% effluent shall not exceed, $1~\rm TU_c$ in a critical life stage test.)

² 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 and included as Attachment H. If no methods are specified for a given pollutant, by methods approved by this Regional Water Board or the State Water Board.

³ See Section V.

⁴ Priority Pollutants as defined by the CTR defined in Finding II.I of this Order and included as Attachment I.

⁵ The Discharger shall analyze at least once per year.

B. Acute Toxicity Effluent Monitoring Program

- 1. Effluent samples shall be collected after all treatment processes and before discharge to the receiving water.
- 2. The Discharger shall conduct acute 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 in 100 % effluent.
- 3. The fathead minnow, *Pimephales promelas*, shall be used as the test species for fresh water discharges and the topsmelt, *Atherinops affinis*, shall be used as the test species for brackish effluent. The method for topsmelt is found in USEPA's *Short-term Method for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms*, First Edition, August 1995 (EPA/600/R-95/136), or a more recent edition.
- 4. In lieu of conducting the standard acute toxicity testing with the fathead minnow, the Discharger may elect to report the results or endpoint from the first 48 hours of the chronic toxicity test as the results of the acute toxicity test.

C. Chronic Toxicity Effluent Monitoring Program

1. Effluent samples shall be collected after all treatment processes and before discharge to the receiving water.

2. Test Species and Methods:

- a. The Discharger shall conduct critical life stage chronic toxicity tests on grab 100 % effluent samples in accordance with USEPA's *Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms*, Fourth Edition, October 2002 (EPA/21-R-02-013) or USEPA's *Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms*, Third Edition, October 2002, (EPA/821/R-02-014), or a more recent edition.
- b. The Discharger shall conduct tests as follows: with a vertebrate, an invertebrate, and a plant for the first three suites of tests. After the screening period, monitoring shall be conducted using the most sensitive species.
- c. Re-screening is required every 15 months. The Discharger shall re-screen with the three species listed above and continue to monitor with the most sensitive species. If the first suite of re-screening tests demonstrates that the same species is the most sensitive then re-screening does not need to include more than one suite of tests. If a different species is the most sensitive or if there is ambiguity then the Discharger shall proceed with suites of screening tests for a minimum of three, but not to exceed five suites.

d. In brackish waters, the presence of chronic toxicity may be estimated as specified using West Coast marine organisms according to USEPA's *Short-Term Methods for Estimating Chronic Toxicity of Effluent and Receiving Waters to Marine and Estuarine Organisms*, Third Edition, October 2002 (EPA/821-R-02-014), or a more recent edition.

D. 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.

E. Accelerated Monitoring and Initial Investigation TRE Trigger

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

Acute Toxicity:

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

Chronic Toxicity:

a. This Order includes a chronic testing toxicity trigger defined as an exceedance of $1.0~{\rm TU_c}$ in a critical life stage test for 100% effluent. (The monthly median for chronic toxicity of 100% effluent shall not exceed, $1~{\rm TU_c}$ in a critical life stage test.),

then, the Discharger shall begin the investigation and evaluation as specified in the Dischargers's Initial Investigation TRE Workplan and begin accelerated monitoring by conducting six additional tests, once approximately every 2 weeks, over a 12-week period. The samples shall be collected and the tests initiated no less than 7 days apart. The

Discharger shall ensure that they receive results of a failing acute toxicity test within 24 hours of the close of the test and the additional tests shall begin within 3 business days of the receipt of the result.

- 3. If implementation of the Initial Investigation TRE Workplan indicates the source of toxicity (e.g., a temporary plant upset, etc.), then the Discharger may discontinue the Initial Investigation TRE and resume routine testing frequency.
- 4. The first step in the Initial Investigation TRE Workplan for downstream receiving water toxicity can be a toxicity test protocol designed to determine if the effluent from Discharge Point 001 causes or contributes to the measured downstream chronic toxicity. If this first step TRE Workplan shows that the Discharge Point 001 effluent does not cause or contribute to downstream chronic toxicity, using USEPA's *Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms*, Fourth Edition, October 2002 (EPA/821/R-02-013), or USEPA's *Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms*, Third Edition, October 2002, (EPA/821/R-02-014) then a report on this testing shall be submitted to the Board and the Initial Investigation TRE will be considered to be completed. Routine testing in accordance with the MRP shall be continued thereafter.

F. Toxicity Reduction Evaluation (TRE)/ Toxicity Identification Evaluation (TIE) Trigger

- 1. If the accelerated testing shows consistent toxicity as defined below:
 - a. Acute Toxicity:
 - 1. If the results of any two of the six accelerated tests are less than 90% survival, or
 - 2. If the initial test and any of the additional six acute toxicity bioassay tests result in less than 70% survival
 - b. Chronic Toxicity:
 - 1. If the results of two of the six accelerated tests exceed 1.0 TU_c

then, the Discharger shall immediately implement the TRE as described below.

G. Steps in TRE and TIE Procedures

1. Following a TRE trigger, the Discharger shall initiate a TRE in accordance with the facility's Initial Investigation TRE workplan. At a minimum, the Discharger shall use USEPA manuals EPA/600/2-88/070 (industrial) or EPA/833B-99/002 (municipal) as guidance. The Discharger shall expeditiously develop a more detailed TRE workplan for submittal to the Executive Officer within 30 days of the trigger, which will include, but not be limited to:

- a. Further actions to investigate and identify the cause of toxicity;
- b. Actions the Discharger will take to mitigate the impact of the discharge and prevent the recurrence of toxicity;
- c. Standards the Discharger will apply to consider the TRE complete and to return to normal sampling frequency; and,
- d. A schedule for these actions.
- 2. The following is a stepwise approach in conducting the TRE:
 - a. Step 1 Basic data collection. Data collected for the accelerated monitoring requirements may be used to conduct the TRE;
 - b. Step 2 Evaluates optimization of the treatment system operation, facility housekeeping, and the selection and use of in-plant process chemicals;
 - c. Step 3 If Steps 1 and 2 are unsuccessful, Step 3 implements a TIE by employing all reasonable efforts and using currently available TIE methodologies. The Discharger shall the **USEPA** acute and chronic manuals, EPA/600/6-91/005F (Phase use EPA/600/R-92/080 D/EPA/600/R-96-054 (for marine). EPA-600/R-92/081 (Phase III) as guidance. The objective of the TIE is to identify the substance or combination of substances causing the observed toxicity;
 - d. Step 4 Assuming successful identification or characterization of the toxicant(s), Step 4 evaluates final effluent treatment options;
 - e. Step 5 evaluates in-plant treatment options; and,
 - f. Step 6 consists of confirmation once a toxicity control method has been implemented.

Many recommended TRE elements parallel source control, pollution prevention, and storm water control program best management practices. To prevent duplication of efforts, evidence of implementation of these control measures may be sufficient to comply with TRE requirements. By requiring the first steps of a TRE to be accelerated testing and review of the facility's TRE workplan, a TRE may be ended in its early stages. All reasonable steps shall be taken to reduce toxicity to the required level. The TRE may be ended at any stage if monitoring indicates there is no longer toxicity (or six consecutive chronic toxicity test results are less than or equal to 1.0 TU_c or six consecutive acute toxicity test results are greater than 90% survival).

3. The Discharger may initiate a TIE as part of the TRE process to identify the cause(s) of toxicity. The Discharger shall use the EPA acute and chronic manuals, EPA/600/6-91/005F (Phase I)/EPA/600/R-96-054 (for marine), EPA/600/R-92/080 (Phase II), and EPA-600/R-92/081 (Phase III) as guidance.

- 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.
- 4. Toxicity tests conducted as part of a TRE/TIE may also be used for compliance determination, if appropriate.
- 5. 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 Board will be based in part on the Discharger's actions and efforts to identify and control or reduce sources of consistent toxicity.

H. Reporting

- 1. The Discharger shall submit a full report of the toxicity test results, including any accelerated testing conducted during the month as required by this permit. Test results shall be reported as % survival for acute toxicity test results and as TU_c for chronic toxicity test results with the self-monitoring reports (SMR) for the month in which the test is conducted.
- 2. If an initial investigation indicates the source of toxicity and accelerated testing is unnecessary, then those results also shall be submitted with the SMR for the period in which the investigation occurred.
 - a. The full report shall be submitted on or before the end of the month in which the SMR is submitted.
 - b. The full report shall consist of (1) the results; (2) the dates of sample collection and initiation of each toxicity test; (3) the acute toxicity average limit or chronic toxicity limit or trigger and (4) printout of the ToxCalc or CETIS 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_{15} , IC_{25} , IC_{40} and IC_{50} 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. IC_{25} value for reference toxicant test(s);
- k. Any applicable charts; and
- l. Available water quality measurements for each test (e.g., pH, dissolved oxygen, 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 AND GROUNDWATER

A. Monitoring Location R-001

1. The Discharger shall monitor Long Beach Inner Harbor at Monitoring Location R-001 as follows:

Parameter	Units	Sample Type	Minimum Frequency	Sampling	Required Analytical Test Method
pH ¹	standard units	Grab	1/Year ²		3
Priority Pollutants ^{1, 4}	μg/L	Grab	1/Year ²		3
Temperature	°F	Grab	1/Year ²		3

Must analyze pH of the receiving water at the same time the samples are collected for priority pollutants analysis.

² Shall be monitored concurrently with effluent Priority Pollutant monitoring specified in Section IV.A.1 of Monitoring and Reporting Program, Attachment E.

³ 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 and included as Attachment H. If no methods are specified for a given pollutant, by methods approved by this Regional Water Board or the State Water Board.

⁴ Priority Pollutants as defined by the CTR defined in Finding II.I of this Order and included as Attachment I.

C. Visual Monitoring of Upstream and Downstream Receiving Water Sampling Points

- 1. A visual observation station shall be established in the vicinity of the discharge point to the receiving water (Long Beach Inner Harbor).
- 2. General observations of the receiving water shall be made at each discharge point when discharges occur. During months of no discharge, the receiving water observations shall be made on a monthly basis. All receiving water observations shall be reported in the quarterly monitoring report. If no discharge occurred during the observation period, this shall be reported. Observations shall be descriptive where applicable, such that colors, approximate amounts, or types of materials are apparent. The following observations shall be made:
 - a. Tidal stage, time, and date of monitoring
 - b. Weather conditions
 - c. Color of water
 - d. Appearance of oil films or grease, or floatable materials
 - e. Extent of visible turbidity or color patches
 - f. Direction of tidal flow
 - g. Description of odor, if any, of the receiving water
 - h. Presence and activity of California Least Tern and California Brown Pelican.

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 one hour, or the intermittent discharge of storm water for a minimum of 3 hours in a 12-hour period.

X. REPORTING REQUIREMENTS

A. General Monitoring and Reporting Requirements

- 1. The Discharger shall comply with all Standard Provisions (Attachment D) related to monitoring, reporting, and recordkeeping.
- 2. If there is no discharge during any reporting period, the report shall so state.

- 3. Each monitoring report shall contain a separate section titled "Summary of Non-Compliance" which discusses the compliance record and corrective actions taken or planned that may be needed to bring the discharge into full compliance with waste discharge requirements. This section shall clearly list all non-compliance with waste discharge requirements, as well as all excursions of effluent limitations.
- 4. The Discharger shall inform the Regional Water Board well in advance of any proposed construction activity that could potentially affect compliance with applicable requirements.

B. Self Monitoring Reports (SMRs)

- 1. At any time during the term of this permit, the State or Regional Water Board may notify the Discharger to electronically submit self-monitoring reports. Until such notification is given, the Discharger shall submit self-monitoring reports in accordance with the requirements described below.
- 2. The Discharger shall submit quarterly Self Monitoring Reports including the results of all required monitoring using USEPA-approved test methods or other test methods specified in this Order. Quarterly reports shall be due on May 1, August 1, November 1, and February 1 following each calendar quarter.
- 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 / year	January 1, 2006	January 1 through December 31	February 1
1 / Discharge Event	First day of discharge after the effective date of the permit		First day of second calendar month following month of sampling

4. The Discharger shall report with each sample result the applicable ML and the current MDL, as determined by the procedure in 40 CFR Part 136.

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

- a. Sample results greater than or equal to the RL shall be reported as measured by the laboratory (i.e., the measured chemical concentration in the sample).
- b. Sample results less than the RL, but greater than or equal to the laboratory's MDL, shall be reported as "Detected, but Not Quantified," or DNQ. The *estimated chemical concentration of the sample shall also be reported.

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

- c. Sample results less than the laboratory's MDL shall be reported as "Not Detected," or ND.
- d. Dischargers are to instruct laboratories to establish calibration standards so that the ML value (or its equivalent if there is differential treatment of samples relative to calibration standards) is the lowest calibration standard. At no time is the discharger to use analytical data derived from *extrapolation* beyond the lowest point of the calibration curve.
- 5. The Discharger shall arrange all reported data in a tabular format. The data shall be summarized to clearly illustrate whether the facility is operating in compliance with interim and/or final effluent limitations. Where applicable, the Discharger shall include results of receiving water observations.
- 6. Each monitoring report shall state whether or not there was any change in the discharge as described in the Order during the reporting period.
- 7. 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.
- 8. 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. 4th Street, Suite 200 Los Angeles, CA 90013 Attn: Information Technology Unit

C. Discharge Monitoring Reports (DMRs) – Not Applicable

D. Other Reports

1. By March 1 of each year, the Discharger shall submit an annual report to the Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. In addition, the discharger shall discuss the compliance record and

the corrective actions taken or planned which may be needed to bring the discharge into full compliance with the waste discharge requirements.

- 2. The Discharger shall include in the annual report, an annual summary of the quantities of all chemicals, listed by both trade and chemical names, which are used for cooling and/or boiler water treatment and which are discharged.
- 3. The Discharger shall file with the Regional Water Board technical reports on self-monitoring work performed according to the detailed specifications contained in any Monitoring and Reporting Programs as directed by the Executive Officer.
- 4. The Discharger shall submit to the Board, together with the first monitoring report required by this permit, a list of all chemicals and proprietary additives which could affect this waste discharge, including quantities of each. Any subsequent changes in types and/or quantities shall be reported promptly.
- 5. This Regional Water Board requires the Discharger to file with the Board, within 90 days after the effective date of this Order, a technical report on his preventive (failsafe) and contingency (cleanup) plans for controlling accidental discharges, and for minimizing the effect of such events. The technical report should:
 - a. Identify the possible sources of accidental loss, untreated waste bypass, and contaminated drainage. Loading and storage areas, power outage, waste treatment unit outage, and failure of process equipment, tanks and pipes should be considered.
 - b. Evaluate the effectiveness of present facilities and procedures and state when they become operational.
 - c. Describe facilities and procedures needed for effective preventive and contingency plans.
 - d. Predict the effectiveness of the proposed facilities and procedures and provide an implementation schedule contingent interim and final dates when they will be constructed, implemented, or operational.

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

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ATTACHMENT F - FACT SHEET

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

I. PERMIT INFORMATION

The following table summarizes administrative information related to the facility.

Table F-1 Facility Information

WDID	4B192010015
Discharger	BP West Coast Products LLC (owner) and BP Pipelines NA (operator)
Name of Facility	Long Beach Marine Terminal 1, Berth 121
	620 Pier "T" Avenue, Berth 121
Facility Address	Long Beach, CA 90802
	Los Angeles County
Facility Contact, Title and	Stephen Comley, Health, Safety, Security & Environmental Advisor
Phone	(562) 499 2241
Authorized Person to Sign and	Timothy S. Hawkins, LA Basin District Manager, (562) 499-3311
Submit Reports	
Mailing Address	1300 Pier "B" Street, Long Beach, CA 90813
Billing Address	1300 Pier "B" Street, Long Beach, CA 90813
Type of Facility	OTH (Other)
Major or Minor Facility	Minor
Threat to Water Quality	3
Complexity	C
Pretreatment Program	N/A
Reclamation Requirements	N
Facility Permitted Flow	0.05 million gallons per day (MGD) of storm water, 0.001 MGD of wash water, and 0.168 MGD of tank hydrostatic test water
Facility Design Flow	N/A
Watershed	3
Receiving Water	Long Beach Inner Harbor
Receiving Water Type	Harbor

- A. Long Beach Marine Terminal, Berth 121 (hereinafter Facility) is a marine petroleum terminal owned by BP West Coast Products LLC and operated by BP Pipelines NA (hereinafter Discharger).
- B. The Facility discharges storm water from the containment areas, wash water, and tank hydrostatic test water to Long Beach Inner Harbor, a water of the United States. The Facility is currently regulated by Order No. 00-089 which was adopted on June 29, 2000 and expired on June 10, 2005. Section 122.6 of Title 40, Code of Federal Regulations (40 CFR) and Section 2235.4 of Title 23, California Code of Regulations (CCR), state that an expired permit continues in force until the effective date of a new permit, provided that the permittee has made a timely

submittal of a complete application for a new permit. On December 2, 2004, the Discharger filed a Report of Waste Discharge (ROWD) and applied to the Regional Water Quality Control Board (Regional Board) for reissuance of Waste Discharge Requirements (WDRs) and a NPDES permit. Therefore, the Discharger's permit has been administratively extended until the Regional Board acts on the new WDRs and permit.

C. The Discharger filed a report of waste discharge and submitted an application for renewal of its WDRs and NPDES permit on December 2, 2004. Supplemental information requested was received in May 2005. A site visit was conducted on October 26, 2004, to observe operations and collect additional data to develop permit limitations and conditions.

II. FACILITY DESCRIPTION

A. Description of Facility and Wastewater System

Long Beach Marine Terminal 1, Berth 121 is a marine petroleum terminal owned by BP West Coast Products LLC and operated by BP Pipelines NA. The Facility receives crude oil from tankers and pumps the crude oil to BP Carson Crude Terminal, Terminal 2, and the Carson Refinery. The Facility intermittently discharges storm water, wash water, and tank hydrotest water through Discharge Point 001 to Long Beach Inner Harbor, a water of the United States. The Facility discharged once during the term of the existing permit.

Storm water runoff is collected from areas and structures that are enclosed within secondary containment. The wash water is city water that has been used to clean surfaces on-site. The storm water and wash water within the secondary containment areas are directed to an on-site oil/water separator. The Facility generally discharges the treated storm water and wash water to a nearby tank farm in Carson for further treatment prior to discharge to the County Sanitation District. In the event the nearby tank farm is not able to accept the treated wastewater due to hydraulic overload, the treated storm water and wash water are discharged into Long Beach Inner Harbor.

Tank hydrostatic testing occurs infrequently. Hydrotest operations are executed using the city water which is used to fill a tank after the tank has been repaired and/or cleaned. The hydrotest water is analyzed for pollutants prior to discharge. If the hydrotest water meets the effluent limitations in the existing permit, then the wastewater is discharged directly into Long Beach Inner Harbor. If the hydrotest water does not meet the permitted effluent discharge limitations, then the wastewater is directed to the BP West Coast Products Refinery, located in Carson, for treatment. There has not been a discharge of tank hydrotest water from the site during the term of the existing permit.

Approximately 30 drains made of PVC pipes line the shore of the Facility that discharge storm water from uncontaminated areas into the Harbor. These drains are covered under a separate NPDES permit held by Long Beach Harbor.

B. Discharge Point and Receiving Water

The Facility discharges 0.05 MGD of storm water, 0.001 MGD of wash down water, and 0.168 MGD of tank hydrotest water through Discharge Point 001, located at 33° 45' 30" N and 118° 13' 15" W, to the Long Beach Inner Harbor, a water of the United States.

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

The Facility has rarely discharged through Discharge Point 001. The quarterly monitoring reports submitted by the Discharger between the 3rd Quarter of 2000 and the 4th Quarter of 2004 indicate that the discharge from the Facility only occurred in the 1st Quarter of 2001. Therefore, effluent data for storm water discharge through Discharge Point 001 are available for only the 11th of January, 2001. No discharge data is available for wash water and tank hydrotest water. Effluent Limitations/Discharge Specifications contained in the existing Order for the discharge from Discharge Point 001 (Monitoring Location M-001) for storm water and representative monitoring data from the term of the existing Order are summarized in Table F-2.

Table F-2
For Storm Water Discharge Only
Summary of Effluent Limitations in Order No. 00-089 and
SMR Reporting Through Discharge Point 001

Parameter ¹	Units Maximum Daily Effluent Limitation ²		Storm Water Monitoring Data for Discharge Point 001 (January 11, 2000)
Biochemical Oxygen Demand	mg/L	30	5.6
5-day @ 20 °C (BOD)	lbs/day	12.5	1.4
Oil and Grease	mg/L	15	2.0
On and Grease	lbs/day	6.3	0.51
рН	standard units	6 to 9 ³	7.0
Total Suspended Solids (TSS)	mg/L	150	11
Total Suspended Solids (TSS)	lbs/day	63	2.8
Cadmium	μg/L	42	<5.0
Cadmuni	lbs/day	0.017	< 0.0013
Chromium (VII)	μg/L	1100	<20
Chromium (VI)	lbs/day	0.46	< 0.005
T and	μg/L	210	9.4
Lead	lbs/day	0.088	0.0020
Zinc	μg/L	90	1400
ZIIIC	lbs/day	0.037	0.36
Danner	μg/L	1.0	<0.34
Benzene	lbs/day	0.0000040	<0.0003 ⁴
Edhadhanan	μg/L	10	<0.24
Ethylbenzene	lbs/day	0.0040	<0.0003 ⁴
T.1	μg/L	10	<0.34
Toluene	lbs/day	0.0040	<0.0003 ⁴

Parameter ¹	Units	Maximum Daily Effluent Limitation ²	Storm Water Monitoring Data for Discharge Point 001 (January 11, 2000)
Trichloroethylene	μg/L		44
Phenols	μg/L	5.0	<14
1 lichois	lbs/day	0.0020	<0.03 ⁴
Acetone	μg/L		20
Conductivity	mhos/cm		722
Flow	MGD	0.05	0.031
Sulfides	mg/L	1.0	<0.1
Suffices	lbs/day	0.40	<0.3
Temperature	°F	100	55
Total Organic Carbon (TOC)	mg/L		12
Total Organic Carbon (TOC)	lbs/day		3.2
Turbidity	NTU	150	15
Xylenes	μg/L	10	<1
Aylelles	lbs/day	0.004	<0.0008

¹ Other pollutants analyzed were reported as non detects

D. Compliance Summary

The Facility has discharged only once during the term of the existing permit. Effluent data sampled on the 11th of January, 2001 is the only data available for storm water discharge through Discharge Point 001. The data submitted to the Regional Water Board indicates that the Discharger has exceeded existing permit limitations as outlined in the Table below:

Table F-3
Summary of Compliance History

Date	Monitoring Period	Violation Type	Parameter	Reported Value	Permit Limitation	Units
1/11/2000	1st Quarter, 2001	Maximum	Zinc	1400	90	μg/L
1/11/2000	1st Quarter, 2001	Maximum	Zinc	0.36	0.037	lbs/day
1/11/2000	1 st Quarter, 2001	Maximum	Acute Toxicity	15	70 ¹	% survival

¹ The average survival in the undiluted effluent for any three (3) consecutive 96-hour static or continuous flow bioassay tests shall be at least 90%, and no single test producing less than 70% survival.

Identified violations are being evaluated for appropriate enforcement actions.

E. Planned Changes [Not Applicable]

III. APPLICABLE PLANS, POLICIES, AND REGULATIONS

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

² For Discharge of storm water only. The mass limits do not include wash water and tank hydrotest water

³ pH should be between 6 and 9 standard units at all times

⁴ For these non-detects, the mass is not calculated using the concentration shown. The concentrations shown represent the MDL while the mass is calculated using reporting limit (RL)

A. Legal Authorities

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

B. California Environmental Quality Act (CEQA)

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

C. State and Federal Regulations, Policies, and Plans

1. Water Quality Control Plans. The Regional Water Board adopted a Water Quality Control Plan for the Los Angeles Region (hereinafter Basin Plan) that designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for all waters addressed through the plan. In addition, State Water Board Resolution No. 88-63 requires that, with certain exceptions, the Regional Water Board assign the municipal and domestic supply use to water bodies that do not have beneficial uses listed in the Basin Plan. Beneficial uses applicable to Long Beach Inner Harbor (hydrologic unit 405.12) are as follows:

Table F-4
Discharge Points, Receiving Waters, and Beneficial Uses

Discharge Point	Receiving Water Name	Beneficial Use(s)
001	Los Angeles - Long Beach Harbor (All Other Inner Harbors)	Existing: Industrial service supply (IND), navigation (NAV), non-contact water recreation (REC-2), commercial and sport fishing (COMM), marine habitat (MAR), rare and endangered species (RARE) Potential: Contact water recreation (REC-1), shellfish harvesting (SHELL)

2. Ammonia Basin Plan Amendment. The 1994 Basin Plan provided water quality objectives for ammonia to protect aquatic life, in Table 3-1 through Table 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 Office of Administrative Law and the USEPA on September 14, 2004 and May 19, 2005, respectively.

Ammonia is not a chemical of concern from the Long Beach Marine Terminal 1 Berth 121, hence this Order dose not include limits or monitoring for this constituent.

- 3. **Thermal Plan.** The State Water Board adopted a *Water Quality Control Plan for Control of Temperature in the Coastal and Interstate Water and Enclosed Bays and Estuaries of California* (Thermal Plan) on May 18, 1972, and amended this plan on September 18, 1975. This plan contains temperature objectives for inland surface waters.
- 4. National Toxics Rule (NTR) and California Toxics Rule (CTR). USEPA adopted the NTR on December 22, 1992, which was amended on May 4, 1995 and November 9, 1999, and the CTR on May 18, 2000, which was amended on February 13, 2001. These rules include water quality criteria for priority pollutants and are applicable to this discharge. The provision for compliance schedules sunsets on May 17, 2005.
- 5. **State Implementation Policy.** On March 2, 2000, the State Water Board adopted the *Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California* (State Implementation Policy or SIP). The SIP became effective on April 28, 2000, with respect to the priority pollutant criteria promulgated for California by the USEPA through the NTR and to the priority pollutant objectives established by the Regional Water Boards in their Basin Plans. The SIP became effective on May 22, 2000 with respect to priority pollutant criteria promulgated by the USEPA through the California Toxics Rule. The State Water Board adopted amendments to the SIP on February 24, 2005 that became effective on July 13, 2005. The provision for compliance schedules sunseted on May 17, 2005. After this date, the provisions of the SIP allow for schedules of compliance not to exceed 5 years from permit issuance or May 17, 2010, whichever is sooner.
- 6. **Antidegradation Policy.** Section 131.12 of 40 CFR requires that State water quality standards include an antidegradation policy consistent with the federal policy. The State Water Board established California's antidegradation policy in State Water Board Resolution No. 68-16, which incorporates the requirements of the federal antidegradation policy. Resolution No. 68-16 requires that existing water quality is maintained unless degradation is justified based on specific findings. As discussed in detail in this Fact Sheet, the permitted discharge is consistent with the antidegradation provision of 40 CFR §131.12 and State Water Board Resolution No. 68-16.
- 7. **Anti-Backsliding Requirements.** Sections 402(o)(2) and 303(d)(4) of the CWA and 40 CFR §122.44(l) prohibit backsliding in NPDES permits. These anti-backsliding provisions require that effluent limitations in a reissued permit must be as stringent as those in the existing permit, with some exceptions in which limitations may be relaxed. All effluent limitations in the Order are at least as stringent as the effluent limitations in the existing Order.
- 8. **Monitoring and Reporting Requirements.** Section 122.48 of 40 CFR requires that all NPDES permits specify requirements for recording and reporting monitoring results. Sections 13267 and 13383 of the CWC authorize the Regional Water Boards to require

technical and monitoring reports. The MRP establishes monitoring and reporting requirements to implement federal and State requirements. The MRP is provided in Attachment E.

9. **Alaska Rule.** On March 30, 2000, USEPA revised its regulation that specifies when new and revised State and Tribal water quality standards (WQS) become effective for CWA purposes (40 CFR §131.21, 65 FR 24641, April 27, 2000). Under USEPA's new regulation (also known as the Alaska rule), new and revised standards submitted to USEPA after May 30, 2000, must be approved before being used for CWA purposes. The final rule also provides that standards already in effect and submitted to USEPA by May 30, 2000, may be used for CWA purposes, whether or not approved by USEPA.

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

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 TMDLs that will specify waste load allocations (WLAs) for point sources and load allocations (LAs) for non-point sources, as appropriate.

The USEPA approved the State's 2002 303(d) list of impaired water bodies on July 25, 2003. 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 2002 303(d) list and have been scheduled for TMDL development.

The 2002 State Water Board's California 303(d) List classifies the Long Beach Harbor Main Channel, SE, W. Basin, Pier J, Breakwater as impaired. The pollutants of concern include DDT (tissue), PAHs (sediment), PCBs (tissue), sediment toxicity, and benthic community effects. To date no TMDLs have been developed; therefore, no conditions in the Order are based on TMDLs.

The Facility is a marine petroleum terminal that discharges storm water, wash water, and tank hydrotest water. It is unlikely that the discharge would contain DDT and therefore, the discharge is not expected to impair Long Beach Inner harbor for this pollutant. However, the type of facility operation and the available data indicate that organic compounds and metals are present in the discharge. Therefore, the discharge may contain PAHs and can potentially cause sediment toxicity, and benthic community effects. Effluent limitations for selected organic compounds and metals have been established in the Order to protect Long Beach Inner Harbor from impairment caused by these pollutants.

E. Other Plans, Polices and Regulations [Not Applicable]

IV. RATIONALE FOR EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS

The CWA requires point source discharges to control the amount of conventional, non-conventional, and toxic pollutants that are discharged into the waters of the United States. The control of pollutants discharged is established through effluent limitations; and other requirements

in NPDES permits. There are two principal bases for effluent limitations: 40 CFR §122.44(a) requires that permits include applicable technology-based limitations and standards; and 40 CFR §122.44(d) requires that permits include WQBELs to attain and maintain applicable numeric and narrative water quality criteria to protect the beneficial uses of the receiving water. Where numeric water quality objectives have not been established three options exist to protect water quality: 1) 40 CFR §122.44(d) specifies that WQBELs may be established using USEPA criteria guidance under CWA section 304(a); 2) proposed State criteria or a State policy interpreting narrative criteria supplemented with other relevant information may be used; or 3) an indicator parameter may be established.

The Facility is a marine petroleum terminal that receives crude oil from tankers and pumps the crude oil to the Carson Refinery. The discharge consists of storm water, wash water, and tank hydrotest water to Long Beach Inner Harbor through Discharge Point 001. Typical pollutants present in these waste streams may include solids, oil and grease, organic compounds, metals and sulfides. Solids are commonly present in storm water and wastewater of industrial facilities. Therefore, BOD, total suspended solids (TSS) and turbidity are pollutants of concern. Also, pH and temperature are pollutants of concern because the discharge of industrial storm water and wastewater also has the potential to affect the pH and temperature of the receiving water body. In addition, the Facility deals with crude oil that is a potential source of oil and grease, organic compounds, and metals. Organic pollutants from petroleum facilities typically include benzene, ethylbenzene, toluene, phenols, xylene, and other organic compounds. When the existing permit was issued in 2000, BOD, oil and grease, pH, TSS, cadmium, chromium (VI), lead, zinc, benzene, ethylbenzene, toluene, phenols, sulfides, temperature, turbidity, and xylene were considered pollutants of concern and were regulated in the existing permit. The facility operation has not changed significantly since the existing permit was issued. Therefore, all of these pollutants except sulfides are also considered pollutants of concern for the permit.

The effluent limits that appeared in the previous permit for ethylbenzene, and toluene were based upon Maximum Contaminant Levels (MCLs) which are applicable for the municipal and domestic supply (MUN) beneficial use. The Long Beach Inner Harbor does not have MUN as a beneficial use hence those limits are not applicable. The applicable limits from CTR for ethylbenzene, toluene, benzene and xylenes are higher than the limits that appeared in Order 00-089. Since these constituents were never detected and the appropriate limit would be higher than those in the current Order, no limits for these constituents have been included in the Order. Similarly, regulating cadmium, chromium (VI), lead, and zinc will control the concentrations of these metals in the discharge effluent. Effluent limits for these constituents have been calculated based on the CTR criteria. The calculated effluent limits from cadmium, chromium VI, and lead are all more stringent than the limits stipulated in Order 00-089. The calculated limit for zinc (95 μ g/L) which is proposed in the Order is slightly higher than the limit that appeared in Order 00-089. The increase in the limit is the result of specifying the limit as total recoverable concentration (95 μ g/L) versus the dissolved concentration of 90 μ g/L which appears in Order 00-089.

Generally, mass-based effluent limitations ensure that proper treatment, and not dilution, is employed to comply with the final effluent concentration limitations. 40 CFR §122.45(f)(1) requires that all permit limitations, standards or prohibitions be expressed in terms of mass units except under the following conditions:

- a. for pH, temperature, radiation or other pollutants that cannot appropriately be expressed by mass limitations;
- b. when applicable standards or limitations are expressed in terms of other units of measure; or
- c. if in establishing technology-based permit limitations on a case-by-case basis limitations based on mass are infeasible because the mass or pollutant cannot be related to a measure of production. The limitations, however, must ensure that dilution will not be used as a substitute for treatment.

A. Discharge Prohibitions

The discharge prohibitions are based on the requirements of the Basin Plan, State Water Board's plans and policies, CWC, and existing permit provisions, and are consistent with the requirements set for other discharges regulated by NPDES permit to Long Beach Inner Harbor.

B. Technology-Based Effluent Limitations

1. Scope and Authority

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

- a. Best practicable treatment control technology (BPT) represents the average of the best performance by plants within an industrial category or subcategory. BPT standards apply to toxic, conventional, and nonconventional 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 nonconventional 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 40 CFR §125.3 of the NPDES regulations authorize the use of Best Professional Judgment (BPJ) to derive technology-based effluent limitations on a case-by-case basis where ELGs

are not available for certain industrial categories and/or pollutants of concern. Where BPJ is used, the permit writer must consider specific factors outlined in 40 CFR §125.3.

2. Applicable Technology-Based Effluent Limitations

The permit includes technology-based effluent limitations based on BPJ in accordance with 40 CFR §125.3. As discussed earlier, BOD, oil and grease, TSS, cadmium, chromium (VI), lead, zinc, benzene, ethylbenzene, toluene, phenols, sulfides, turbidity, and xylene are pollutants of concern for this type of discharge and the existing permit includes effluent limitations for these pollutants. Section 402(o) of the Clean Water Act and 40 CFR section 122.44(l) require that water-quality based effluent limits in re-issued permits must be at least as stringent as in the existing permit (anti-backsliding). There are, however, exceptions to the prohibition which are codified in sections 303(d)(4) and/or 402(o)(2) of the Clean Water Act. 40 CFR Part 122.44(l)(2)(i) explains that a permit may be renewed, reissued, or modified to contain a less stringent effluent limitation applicable to a pollutant, if one of the following exceptions applies:

- (A) Material and substantial alterations or additions to the permitted facility occurred after permit issuance which justify the application of a less stringent effluent limitation;
- (B) (1) Information is available which was not available at the time of permit issuance (other than revised regulations, guidance, or test methods) and which would have justified the application of a less stringent effluent limitation at the time of permit issuance; or
 - (2) The Administrator determines that technical mistakes or mistaken interpretations of law were made in issuing the permit under section 402(a)(1)(b);
- (C) A less stringent effluent limitation is necessary because of events over which the permittee has no control and for which there is no reasonably available remedy;
- (D) The permittee has received a permit modification under section 301(c), 301(g), 301(h), 301(i), 301(k), 301(n), or 316(a); or
- (E) The permittee has installed the treatment facilities required to meet the effluent limitations in the previous permit and has properly operated and maintained the facilities but has nevertheless been unable to achieve the previous effluent limitations, in which case the limitations in the reviewed, reissued, or modified permit may reflect the level of pollutant control actually achieved (but shall not be less stringent than required by effluent guidelines in effect at the time of permit renewal, reissuance, or modification).

Based on BPJ, effluent limitations for BOD, oil and grease, pH, TSS, phenols, temperature, and turbidity in the Order are carried over from the existing Order (Order No. 00-089). The Regional Water Board has determined that these numeric effluent limitations continue to be applicable to the Facility. Effluent limits for benzene, ethylbenzene, toluene, and xylenes have not been carried over since these constituents

were not detected and reasonable potential was not established. To be consistent with similar permits recently issued by the Regional Water Board, the daily maximum effluent limitations for TSS and turbidity in the Order are revised to 75 mg/L, and 75 NTU, respectively. Summaries of the technology-based effluent limitations are summarized in Table F-5.

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Table F-5
Summary of Technology-based Effluent Limitations
Discharge Point 001

	Units	Final Effluent Limitations Maximum Daily			
Parameter					
rarameter		Storm Water	Wash Water	Tank hydrot Water	est
Flow	MGD	0.05	0.001	0.168	
Total Suspended Solids (TSS)	mg/L	75	75	75	
Biochemical Oxygen Demand 5-day @ 20°C (BOD)	mg/L	30	30	30	
Oil and Grease	mg/L	15	15	15	
Turbidity	NTU	75	75	75	
Phenols	μg/L	5	5	5	
Cadmium, Total Recoverable	μg/L	42	42	42	
Lead, Total Recoverable	μg/L	210	210	210	
Chromium (VI)	μg/L	1,100	1,100	1,100	
Zinc, Total Recoverable	μg/L	90	90	90	

C. Water Quality-Based Effluent Limitations (WQBELs)

1. Scope and Authority

As specified in 40 CFR §122.44(d)(1)(i), permits are required to include WQBELs for pollutants (including toxicity) that are or may be discharged at levels that cause, have reasonable potential to cause, or contribute to an excursion above any state water quality standard. The process for determining reasonable potential and calculating WQBELs when necessary is intended to protect the designated uses of the receiving water as specified in the Basin Plan, and achieve applicable water quality objectives and criteria that are contained in other state plans and policies, or water quality criteria contained in the CTR and NTR. The specific procedures for determining reasonable potential for discharges from the Long Beach Marine Terminal, Berth 121, 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 receiving water is Long Beach Inner Harbor and the beneficial uses applicable to Long Beach 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 Long Beach Inner Harbor. The CTR contains aquatic saltwater criteria, aquatic freshwater criteria, and human health criteria. Because a distinct separation generally does not exist between freshwater and saltwater aquatic communities, the following apply in accordance to 40 CFR §131.38(c)(3):

- a. the freshwater criteria apply at receiving water salinities of 1 part per thousand and below at locations where this occurs 95% or more of the time;
- b. the saltwater criteria apply at receiving water salinities of 10 parts per thousand and above at locations where this occurs 95% more of the time; and
- c. at receiving water salinities between 1 and 10 parts per thousand the more stringent of the two apply. Human health criteria for consumption organisms only are applicable to all discharges, while human health criteria for consumption water and organisms are applicable to discharges that discharge to a receiving water with existing municipal and domestic (MUN) domestic use.

Based on the salinity and the designated beneficial use, the CTR criteria for the protection of aquatic saltwater organisms or human health for consumption of organisms only, whichever is more stringent, apply to discharges to Long Beach Inner Harbor.

Table F-6 summarizes the applicable water quality criteria/objective for priority pollutants in the effluent that may present reasonable potential to cause or contribute to an excursion above a water quality standard. These criteria were used in developing effluent limitations for the discharge.

Table F-6
Applicable Water Quality Criteria

			CTR/NTR Water Quality Criteria						
			Freshwater		Saltwater		Human Health for Consumption of:		
CTR		Selected Criteria	Acute Chronic		Acute	Chronic	Water & Organisms	Organisms only	
No.	Parameter	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	
4	Cadmium	9.4			42	9.4			
5b	Chromium VI	50			1108	50			
7	Lead	8.5			221	8.5			
13	Zinc	86	N/A		95.14	86	N/A		
19	Benzene	71	N/A				IVA	71	
33	Ethylbenzene	29,000						29,000	
39	Toluene	200,000						200,000	
54	Phenol	4,600,000						4,600,000	

[&]quot;N/A" indicates the receiving water body is not characterized as freshwater, nor are the water quality criteria for the protection of human health for the consumption of water and organisms applicable.

3. Determining the Need for WQBELs

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

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:

a. Trigger 1 – If the MEC \geq C, a limit is needed.

- b. Trigger 2 If the MEC<C and B > C, a limit is needed.
- c. <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.

In accordance with Section 1.3 of the SIP, the Regional Water Board shall also review other information available to determine if a WQBEL is required. Information that may be used includes: the facility type, discharge type, solids loading analysis, lack of dilution, history of compliance problems, potential toxic impact of discharge, fish tissue residue data, water quality and beneficial uses of the receiving water, CWA 303(d) listing for the pollutant, the presence of endangered or threatened species or critical habitat, and other information. If the information available indicates that one or more of the pollutants present reasonable potential to exceed water quality criteria, then a WQBEL shall be established for those pollutants.

During the term of the existing permit, the facility discharged only once in January 2001. No receiving water and only one set of effluent data sampled on January 11, 2001 are available for analysis. Because of insufficient data, an RPA could not be completed for the facility. However, as mentioned earlier in Section IV, CTR pollutants such as cadmium, chromium (VI), lead, zinc, benzene, ethylbenzene, toluene, and phenol are pollutants of concern for this type of discharge and have been regulated in the existing Order No. 00-089. Therefore, the Regional Water Board has determined that WQBELs are required for cadmium, chromium (VI), lead, zinc, benzene, ethylbenzene, toluene, and phenol for Discharge Point 001.

The following table (Table F-7) summarizes the results of the reasonable potential analysis for priority pollutants considered to be pollutants of concern. Refer to Attachment J for a summary of the RPA and associated effluent limitation calculations.

Table F-7
Summary Reasonable Potential Analysis

CTR		Criteria	Max Effluent	Water Conc. ¹	RPA Result - Need	
No.	Constituent	μg/L	μg/L	μg/L	Limit?	Reason
4	Cadmium	9.4	<5.0	NR	Vac	Other Information/NL ²
5b	Chromium VI	50	<20	NR	Yes	Other Information
7	Lead	8.5	9.4	NR	Yes	Other Information

CTR	Cartitant	Criteria (C)	Max Effluent Conc. (MEC)	Water Conc. ¹ (B)	RPA Result Need	
No.	Constituent	μg/L	μg/L	μg/L	Limit?	Reason
13	Zinc	86	1,400	NR	Yes	Other Information
19	Benzene	71	< 0.3	NR	No	ND ³ /IL ⁴
33	Ethylbenzene	29,000	<0.2	NR	No	ND ³ /IL ⁴
39	Toluene	200,000	<0.3	NR	No	ND ³ /IL ⁴
54	Phenol	4,600,000	<1	NR	Yes	Other Information

NR = Not Reported

4. WQBEL Calculations

- a. 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:
 - 1. If applicable and available, use of the WLA established as part of a TMDL.
 - 2. Use of a steady-state model to derive MDELs and AMELs.
 - 3. Where sufficient effluent and receiving water data exist, use of a dynamic model, which has been approved by the Regional Water Board.

Pursuant to 40 CFR §122.45(d), permit limitations for continuous discharges shall be expressed, unless impracticable, as both AMELs and MDELs. As previously stated, the discharge is not continuous as defined in 40 CFR §122.2; therefore, AMELs are not appropriate for this facility and only MDELs are established.

- b. Water quality-based final effluent limitations (MDELs) for cadmium, chromium (VI), lead, zinc, are established based on the steady-state model, available in Section 1.4 of the SIP.
- c. In this Order, no dilution credit is being assigned. In accordance with the reopener provision in Section VI.C.1.e in the Order, the permit may be reopened upon the submission by the Discharger of adequate information to establish appropriate dilution credits or a mixing zone, as determined by the Regional Water Board.

²NL = New Limit which is more stringent than the limit included in Order 00-089.

³ ND = Not Detected

⁴ IL = Increased Effluent Limit relative to the limit which appears in Order 00-089.

d. WQBELS Calculation Example

For each pollutant exhibiting reasonable potential, a set of MDEL values are calculated separately, one set for the protection of aquatic life and the other for the protection of human health. The MDEL limitations for aquatic life and human health are compared, and the most restrictive MDEL are selected as the WQBEL. Using lead as an example, the following demonstrates how the MDELs were established in the permit. The tables in Attachment J summarize the development and calculation of all WQBELs for the permit using the process described below.

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

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

Where C = The priority pollutant criterion/objective, adjusted if necessary

for hardness, pH and translators.

D = The dilution credit, and

B = The ambient background concentration

The facility discharges to the Long Beach Inner harbor, and therefore, saltwater aquatic criteria is applicable to the discharge. The saltwater aquatic criteria is independent of the pH and hardness of the receiving water.

For lead, the most stringent water quality criteria are the saltwater criteria shown below:

Salt water acute criteria, C_{acute} = 221 μ g/L Salt water chronic criteria, $C_{chronic}$ = 8.5 μ g/L

As discussed above, for the permit, dilution was not allowed; therefore:

$$ECA = C$$

For lead the applicable water quality criteria are (reference Table F-6):

ECA_{acute} = $221 \mu g/L$ ECA_{chronic} = $8.5 \mu g/L$

No numeric human health criteria exist for lead. Therefore, none of the limits for lead are based on human health.

ECA_{human health}= Not applicable

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

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

For lead, the following data was used to develop the acute and chronic LTA using equations provided in Section 1.4, Step 3 of the SIP (Table 1 of the SIP also provides this data up to three decimals):

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

For lead, the most limiting LTA is the LTA_{chronic}

LTA =
$$4.5 \,\mu g/L$$

Step 4: Calculate the WQBELs by multiplying the LTA by a factor (multiplier). As previously stated, the discharge is not continuous as defined in 40 CFR §122.2; therefore, AMELs are not appropriate for this facility and the WQBELs are established as MDEL only. The multiplier is a statistically based factor that adjusts the LTA for the averaging periods and exceedance frequencies of the criteria/objectives and the effluent limitations. The value of the multiplier varies depending on the probability basis and the CV of the data set. Table 2 of the SIP provides pre-calculated values for the multipliers based on the value

of the CV and the number of samples. Equations to develop the multipliers in place of using values in the tables are provided in Section 1.4, Step 5 of the SIP and will not be repeated here.

$$MDEL_{aquatic life} = LTA \times MDEL_{multiplier 99}$$

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

For lead, the following data was used to develop the MDEL for aquatic life using equations provided in Section 1.4, Step 5 of the SIP (Table 2 of the SIP also provides this data up to two decimals):

No. of Samples Per Month
$$CV$$
 Multiplier_{MDEL 99} <4 0.60 3.1

MDEL_{aquatic life} $= 4.5 \times 3.1$ $= 14 \mu g/L$

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

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

No numeric human health criteria exist for lead. Therefore, none of the limits of lead are based on human health.

$$AMEL_{human health} = Not applicable$$

Step 6: Calculate the MDEL for human health by multiplying the AMEL by the ratio of the Multiplier_{MDEL} to the Multiplier_{AMEL} (AMEL multiplier based a 95th percentile occurrence probability). Table 2 of the SIP provides pre-calculated ratios to be used in this calculation based on the CV and the number of samples.

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

No numeric human health criteria exist for lead. Therefore, none of the limits of lead are based on human health.

$$MDEL_{human health} = Not applicable$$

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

No human health criteria exist for lead. The lowest (most restrictive) effluent limits for lead are based on aquatic saltwater criteria and are incorporated into the permit. These limits will be protective of aquatic life.

BP WEST COAST PRODUCT LLC LONG BEACH MARINE TERMINAL 1, BERTH 121 ORDER NO. R4-2005-0065 NPDES NO. CA0059285

For lead:

Constituent MDEL_{aquatic life}

Lead $14 \mu g/L$

5. WQBELs based on Basin Plan Objectives

The Basin Plan states that the pH of inland surface waters shall not be depressed below 6.5 or raised above 8.5 as a result of waste discharge. Based on the requirements of the Basin Plan an instantaneous minimum limitation of 6.5 and an instantaneous maximum limitation of 8.5 for pH are included in the Order. The Basin Plan lists temperature requirements for the receiving waters and references the Thermal Plan.

Based on the requirements of the Thermal Plan and a white paper developed by Regional Water Board staff entitled *Temperature and Dissolved Oxygen Impacts on Biota in Tidal Estuaries and Enclosed Bays in the Los Angeles Region*, a maximum effluent temperature limitation of 86 °F is included in the permit. The white paper evaluated the optimum temperatures for steelhead, topsmelt, ghost shrimp, brown rock crab, jackknife clam, and blue mussel. The new temperature effluent limit is reflective of new information available that indicates that the 100 °F temperature is not protective of aquatic organisms. A survey was completed for several kinds of fish and the 86 °F temperature was found to be protective.

6. Final WQBELs

The water quality-based effluent limitations are summarized in Table F-8.

Table F-8
Summary of Water Quality-based Effluent Limitations
Discharge Point 001

		Effluent Limitations						
Parameter	Units	Average Monthly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum			
pН	standard units			6.5	8.5			
Cadmium, Total Recoverable	μg/L		15					
Chromium (VI)	μg/L		83					
Lead, Total Recoverable	μg/L		14					
Zinc, Total Recoverable	μg/L		95					
Benzene	μg/L		142					
Ethylbenzene	mg/L		58					
Phenol	μg/L		5					
Temperature	°F		86					

7. Whole Effluent Toxicity (WET)

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

The Basin Plan specifies a narrative objective for toxicity, requiring that all waters be maintained free of toxic substances in concentrations that are lethal to or produce other detrimental responses by aquatic organisms. Detrimental response includes but is not limited to decreased growth rate, decreased reproductive success of resident or indicator species, and/or significant alterations in population, community ecology, or receiving water biota. The existing Order contains acute and chronic toxicity requirements 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. Consistent with Basin Plan requirements, the permit carries over the acute toxicity limitations and monitoring requirements from the existing Order.

The chronic toxicity trigger has been included in the requirements as stipulated in Section 4 of the SIP. The inclusion of the chronic toxicity trigger and the associated monitoring are included to supplement the Basin Plan requirements.

D. Final Effluent Limitations

Final effluent limitations for Discharge Point 001 are summarized in Table F-9, Table F-10, and Table F-11. For each pollutant, the selected final effluent concentration limitation is the more stringent of the technology-based effluent limitation and the WQBEL available in Tables F-5 and F-8, respectively. Toxicity requirements are based on the discussion in Section IV.C.7. As previously stated, the discharge is not continuous as defined in 40 CFR §122.2; therefore, AMELs are not appropriate for this facility and only MDELs are established for the pollutants in the Order.

Section 402(o) of the CWA and 40 CFR §122.44(l) require that final effluent limitations or conditions in reissued Orders be at least as stringent as those in the existing Orders. The existing permit contains effluent limitations for BOD, oil and grease, pH, TSS, cadmium, chromium (VI), lead, zinc, benzene, ethylbenzene, toluene, phenols, acute toxicity, sulfides, temperature, turbidity, and xylene. New information including data has been used to remove limits for benzene, ethylbenzene, toluene, and sulfide. New information forming the basis of an increase in the limit or the removal of a limit is an exception to the antibacksliding criteria as stipulated in 40 CFR 122.44(l)(2)i. In the Order, the effluent limitations for all other constituents are the same as or more stringent than those of the existing Order, and therefore, backsliding is not applicable. The effluent limitations for BOD, oil and grease, zinc, phenols, and acute toxicity, are the same as those in the existing permit. However, the effluent

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limitations for pH, TSS, cadmium, chromium (VI), lead, temperature, and turbidity in the permit are more stringent than those of the existing Order.

In addition, the mass-based effluent limitations in the permit are established for all the pollutants including BOD, oil and grease, TSS, cadmium, chromium (VI), lead, zinc, and phenols,. The mass-based effluent limitations are obtained from the flow and the effluent concentration limitation. The Report of Waste Discharge indicates that the average expected discharge rates of storm water, wash down water, and tank hydrotest water to the Long Beach Inner Harbor through Discharge Points 001 are 0.05 MGD, 0.001 MGD, and 0.168 MGD, respectively. The flows are identical to those in the existing permit. Based on these flows, the proposed mass-based limitations for each type of discharge are established using the following formula:

Mass (lbs/day) = Flow Rate (MGD) \times 8.34 \times 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)

Table F-9 **Summary of Final Effluent Limitations Storm Water Discharge Through Discharge Point 001**

		Final Efflue				
Parameter	Units	Average Monthly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum	Basis ¹
Biochemical Oxygen Demand	mg/L		30			E DDI
5-day @ 20°C (BOD)	lbs/day ²		13			E, BPJ
Oil and Grease	mg/L		15			E DDI
On and Grease	lbs/day ²		6.3			E, BPJ
рН	standard units			6.5	8.5	BP
T-4-1 C 4-1 C-1: 4- (TCC)	mg/L		75			E DDI
Total Suspended Solids (TSS)	lbs/day ²		31			E, BPJ
Codmium Total Dagayanahla	μg/L		15			CTR
Cadmium, Total Recoverable	lbs/day ²		0.0063			
Character (VII)	μg/L		83			CTR
Chromium (VI)	lbs/day ²		0.035			
I and Tracel Decreased by	μg/L		14			CTD
Lead, Total Recoverable	lbs/day ²		0.0058			CTR
Zina Tatal Bassanahla	μg/L		95			E DDI
Zinc, Total Recoverable	lbs/day ²		0.04			E, BPJ
Dhonala	μg/L		5			E DDI
Phenols	lbs/day ²		0.0021			E, BPJ
Flow	MGD		0.05			E, BPJ
Temperature	°F		86			BP, TP
Turbidity	NTU		75			E, BPJ

¹BP = Basin Plan, BPJ = Best Professional Judgment, CTR = California Toxics Rule, E= Existing permit limitation, TP = Thermal Plan ² Based on a flow of 0.05 MGD

Table F-10 **Summary of Final Effluent Limitations** Wash Water Discharge Through Discharge Point 001

		Final Effluer				
Parameter	Units	Average Monthly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum	Basis ¹
Biochemical Oxygen Demand	mg/L		30			E, BPJ
5-day @ 20°C (BOD)	lbs/day ²		0.25			E, DFJ
Oil and Grease	mg/L		15			E, BPJ
On and Grease	lbs/day ²		0.13			E, DPJ
рН	standard units			6.5	8.5	BP
Total Sysmandad Salida (TSS)	mg/L		75			E DDI
Total Suspended Solids (TSS)	lbs/day ²		0.63			E, BPJ
Codminum Total Basayarahla	μg/L		15			CTR
Cadmium, Total Recoverable	lbs/day ²		0.00013			
Chromium (VI)	μg/L		83			CTR
Chromium (VI)	lbs/day ²		0.00069			
Lord Total Daggyanahla	μg/L		14			CTR
Lead, Total Recoverable	lbs/day ²		0.00012			CIK
Zinc, Total Recoverable	μg/L		95			CTR
Zilic, Total Recoverable	lbs/day ²		0.0008			CIK
Phenol	μg/L		5			E, BPJ
rhenoi	lbs/day ²		0.000042			E, DIJ
Flow	MGD		0.001			E, BPJ
Temperature	°F		86			BP, TP
Turbidity	NTU		75			E, BPJ

¹BP = Basin Plan, BPJ = Best Professional Judgment, CTR = California Toxics Rule, E= Existing permit limitation, TP = Thermal Plan ² Based on a flow of 0.001 MGD

Table F-11 Summary of Final Effluent Limitations Tank Hydrotest Water Discharge Through Discharge Point 001

		Final Efflue				
Parameter	Units	Average Monthly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum	Basis ¹
Biochemical Oxygen Demand	mg/L		30			E, BPJ
5-day @ 20°C (BOD)	lbs/day ²		42			E, DPJ
Oil and Grease	mg/L		15			E, BPJ
On and Grease	lbs/day ²		21			E, DFJ
рН	standard units			6.5	8.5	BP
Total Susmanded Solide (TSS)	mg/L		75			E DDI
Total Suspended Solids (TSS)	lbs/day ²		105			E, BPJ
Codminus Total Bassassahla	μg/L		15			CTR
Cadmium, Total Recoverable	lbs/day ²		0.021			
Character (VII)	μg/L		83			CTD
Chromium (VI)	lbs/day ²		0.12			CTR
Land Tatal Dansamble	μg/L		14			CTR
Lead, Total Recoverable	lbs/day ²		0.02			CIK
7: T-+-1 D	μg/L		95			CTR
Zinc, Total Recoverable	lbs/day ²		0.13			CIK
Dhanal	μg/L		5			E DDI
Phenol	lbs/day ²		0.007			E, BPJ
Flow	MGD		0.168			E, BPJ
Temperature	°F		86			BP, TP
Turbidity	NTU		75			E, BPJ

¹BP = Basin Plan, BPJ = Best Professional Judgment, CTR = California Toxics Rule, E= Existing permit limitation, TP = Thermal Plan ² Based on a flow of 0.168 MGD

E. Interim Effluent Limitations

The final effluent limitations for cadmium, chromium (VI), and lead are more stringent than those in the existing permit. Because the facility submitted only one set of effluent data, it is difficult to predict whether the Facility will be able to comply consistently with the final effluent limitations for these pollutants in the future. The Discharger may request and be provided interim effluent limitations for these constituents.

40 CFR §131.38(e) provides conditions under which interim effluent limitations and compliance schedules may be issued. The SIP allows inclusion of an interim limitation with a specific compliance schedule included in an NPDES permit for priority pollutants if the limitation for the priority pollutant is based on CTR criteria and the Discharger demonstrates that it is infeasible to achieve immediate compliance with the effluent limitations.

Pursuant to the SIP (Section 2.2.1, Interim Requirements under a Compliance Schedule), when compliance schedules are established in an Order, interim limitations must be included based on current treatment facility performance or existing permit limitations, whichever is more stringent to maintain existing water quality. However, there are insufficient data available on the current treatment facility performance to perform a meaningful statistical analysis for the development of interim limitations.

The SIP requires that the Regional Water Board establish other interim requirements such as requiring the discharger to develop source control measures and participate in the activities necessary to achieve the final effluent limitations when interim effluent limitations are established in the NPDES permit.

F. Land Discharge Specifications [Not Applicable]

G. Reclamation Specifications [Not Applicable]

V. RATIONALE FOR RECEIVING WATER LIMITATIONS

A. Surface Water

The Basin Plan contains numeric and narrative water quality objectives applicable to all surface waters within the Los Angeles Region. Water quality objectives include an objective to maintain the high quality waters pursuant to federal regulations (40 CFR §131.12) and State Water Board Resolution No. 68-16. Receiving water limitations in the permit 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

The receiving water limitations for groundwater in the Order are based on the water quality objectives contained in the Basin Plan.

VI. RATIONALE FOR MONITORING AND REPORTING REQUIREMENTS

Section 122.48 of 40 CFR requires all NPDES permits to specify recording and reporting of monitoring results. Sections 13267 and 13383 of the CWC authorize the Water Boards to require technical and monitoring reports. The MRP, Attachment E of the permit, 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 those pollutants expected to be present in the Monitoring Location M-001 at Discharge Point 001 will be required as shown in the MRP (Attachment E). To determine compliance with effluent limitations, the proposed monitoring plan carries forward monitoring requirements from existing Order No. 00-089. In the Order, monitoring requirements for BOD, oil and grease, pH, TSS, cadmium, chromium (VI), lead, zinc, benzene, ethylbenzene, toluene, phenols, acute toxicity, conductivity, flow, MTBE, temperature, TOC, turbidity, and xylene are carried over from the existing permit. Because the discharge through Discharge Point 001 is non-continuous and will occur infrequently, the Order requires that the monitoring for the pollutants are performed once per discharge event. However, for priority pollutants, acute, and chronic toxicity, at a minimum, annual monitoring is required to characterize the discharge for future analysis.

According to the SIP, the Discharger is required to monitor the effluent for the CTR priority pollutants, to determine reasonable potential. Accordingly, the Regional Water Board is requiring that the Discharger conduct effluent monitoring of the CTR priority pollutants.

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. The permit includes limitations for acute and chronic toxicity, and therefore, monitoring requirements are included in the MRP (Attachment E) to determine compliance with the effluent limitations established in Limitations and Discharge Requirements, Effluent Limitations, Section IV.A.1.d.

Section 4 of the SIP states that a chronic toxicity effluent limitation is required in permits for all discharges that will cause, have the reasonable potential to cause, or contribute to chronic toxicity in receiving waters. Therefore, in accordance with the SIP, the Discharger will be required to conduct chronic toxicity testing in order to determine reasonable potential and establish WQBELs as necessary.

D. Receiving Water Monitoring

1. Surface Water

According to the SIP, to determine reasonable potential, the Discharger is required to determine background CTR priority pollutants concentrations in the receiving water away from the influence of the discharge. Accordingly, the Regional Water Board is requiring that the Discharger conduct receiving water monitoring of the CTR priority pollutants at Monitoring Location R-001. The Discharger must analyze temperature and pH of the receiving water at the same time the samples are collected for priority pollutant analysis.

The Order includes receiving water limitations and therefore, monitoring requirements are included in the MRP (Attachment E) to determine compliance with the receiving water limitations established in Limitations and Discharge Requirements, Receiving Water Limitations, Section V.A. 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 [Not Applicable]

VII. RATIONALE FOR PROVISIONS

A. Standard Provisions

1. Federal Standard Provisions

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

2. Regional Water Board Standard Provisions

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

B. Special Provisions

1. Reopener Provisions

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

2. Special Studies and Additional Monitoring Requirements

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

3. Best Management Practices and Pollution Prevention

For the protection of the beneficial uses of the receiving waters, the Order requires the Discharger to develop and implement a BMPP for non-storm water (wash water and tank hydrotest water) and SWPPP for storm water discharges to the Long Beach Inner Harbor. This is consistent with BMPP requirements in 40 CFR §122.44(k) and SWPPP requirements in the NPDES General Permit for Storm Water Discharges Associated with Industrial Activity (State Water Board Order No. 97-03-DWQ, NPDES Permit No. CAS000001).

The permit also require the Discharger to develop and implement a Spill Contingency Plan to control discharge of pollutants. This provision is included in the Order to minimize and control the amount of pollutants discharged in case of a spill. This will ensure compliance with the Order and protect the beneficial uses of the receiving water.

Because interim effluent limitations have been established for the Discharger, the SIP requires that the Regional Water Board establish other interim requirements such as requiring the Discharger to develop a source control measures and participate in the activities necessary to achieve the final effluent limitations. Therefore the Discharger is required to prepare and submit a compliance plan that will identify the measures that will be taken to reduce the concentrations of cadmium, chromium (VI), and lead in the discharge and the steps that will be taken to ensure compliance with the applicable final limitations.

4. Compliance Schedules

This provision is based on the SIP, Section 2.1, Compliance Schedules. The Order establishes new final effluent limitations for cadmium, chromium (VI), and lead, which are more stringent than those in the existing permit. The facility submitted only one set of

effluent data, and therefore, it is difficult to predict whether the Facility will be able to comply consistently with the final effluent limitations for these pollutants in future. As a result, the Discharger may request a compliance schedule with interim requirements

5. Construction, Operation, and Maintenance Specifications

This provision is based on the requirements of 40 CFR 122.41(e) and the existing Order. Proper operation and maintenance of facilities and systems is required to limit discharge of pollutants through mismanagement and operation.

6. Special Provisions for Municipal Facilities (POTWs Only) [Not Applicable]

7. Other Special Provisions [Not Applicable]

VIII. PUBLIC PARTICIPATION

The Regional Water Board is considering the issuance of WDRs that will serve as a NPDES permit for Long Beach Marine Terminal 1, Berth 121. As a step in the WDR adoption process, the Regional Water Board staff has developed WDRs. The Regional Water Board encourages public participation in the WDR adoption process.

A. Notification of Interested Parties

The Regional Water Board has notified the Discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity to submit their written comments and recommendations. Notification was provided through the *Press Telegram* in Long Beach and the *Los Angeles Times* newspapers prior to August 15, 2005.

B. Written Comments

The staff determinations are . Interested persons are invited to submit written comments concerning these WDRs. Comments should be submitted either in person or by mail to the Executive Office at the Regional Water Board at the address above on the cover page of the permit.

To be fully responded to by staff and considered by the Regional Water Board, written comments should be received at the Regional Water Board offices by 5:00 p.m. on September 15, 2005.

C. Public Hearing

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

BP WEST COAST PRODUCT LLC LONG BEACH MARINE TERMINAL 1, BERTH 121 ORDER NO. R4-2005-0065 NPDES NO. CA0059285

Date: **October 6, 2005**

Time: **9:00 A.M.**

Location: The Metropolitan Water District of Southern California

700 North Alameda Street Los 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 http://www.waterboards.ca.gov/losangeles where you can access the current agenda for changes in dates and locations.

D. Waste Discharge Requirements Petitions

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

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

E. Information and Copying

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

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

F. Register of Interested Persons

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

G. Additional Information

Requests for additional information or questions regarding the permit should be directed to Cassandra Owens at (213) 576-6750.