



**California Environmental Protection Agency  
Department of Toxic Substance Control**

**DRAFT  
HAZARDOUS WASTE POST CLOSURE FACILITY  
PERMIT**

**Facility Name:**

CONOCOPHILLIPS  
LOS ANGELES REFINERY  
WILMINGTON PLANT  
1660 West Anaheim Street  
Wilmington, CA 90744

**Owner Name:**

CONOCOPHILLIPS COMPANY  
600 North Dairy Ashford Drive  
Houston, TX 77079

**Operator Name:**

CONOCOPHILLIPS COMPANY  
600 North Dairy Ashford Drive  
Houston, TX 77079

Pursuant to California Health and Safety Code section 25200, this Resource Conservation and Recovery Act (RCRA)-equivalent Hazardous Waste Facility Permit is hereby issued to: CONOCOPHILLIPS

The Issuance of this Permit is subject to the terms and conditions set forth in the Approved Application dated June 2007. The Permit consists of 17 pages of text and 3 figures.

Facility EPA ID Number:  
CAD008237679

Effective Date:

Expiration Date:

\_\_\_\_\_  
Raymond Leclerc, P.E., Leader  
Permitting Renewal Team  
Department of Toxic Substances Control

Date: \_\_\_\_\_

**CONOCOPHILLIPS LOS ANGELES REFINERY WILMINGTON PLANT  
1660 WEST ANAHEIM STREET, WILMINGTON, CALIFORNIA 90744  
EPA ID NUMBER CAD008237679  
DRAFT  
HAZARDOUS WASTE POST CLOSURE FACILITY PERMIT  
STORMWATER HOLDING BASIN NO. 2**

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## **PART I. DEFINITIONS**

All terms used in this Permit shall have the same meaning as those terms have in the California Health and Safety Code, division 20, chapter 6.5 and California Code of Regulations, title 22, division 4.5, unless expressly provided otherwise by this Permit.

1. **“DTSC”** as used in this Permit means the California Department of Toxic Substances Control.
2. **“Facility”** as used in this Permit means all contiguous land and structures, other appurtenances, and improvements on the land used for the treatment, transfer, storage resource recovery, disposal or recycling of hazardous waste. A hazardous waste facility may consist of one or more treatment, transfer, storage, resource recovery, disposal or recycling operational units or combinations of these units.

For the purpose of implementing corrective action under California Code of Regulations, title 22, division 4.5, a hazardous waste facility includes all contiguous property under the control of the owner or operator required to implement corrective action.

3. **“Permittee”** as used in this Permit means the Owner and Operator.
4. **“RCRA”** as used in this Permit means the Resource Conservation and Recovery Act (42 U.S.C. §6901 et seq.).

## **PART II. DESCRIPTION OF THE FACILITY AND OWNERSHIP**

1. **Owner of Facility**  
CONOCOPHILLIPS COMPANY  
600 North Dairy Ashford Drive  
Houston, TX 77079
  
2. **Owner of Real Property**  
CONOCOPHILLIPS COMPANY  
600 North Dairy Ashford Drive  
Houston, TX 77079
  
3. **Operator of Facility**  
CONOCOPHILLIPS COMPANY  
600 North Dairy Ashford Drive  
Houston, TX 77079
  
4. **Location**

The ConocoPhillips Los Angeles Refinery Wilmington Plant (LARW), the Facility is located at 1660 West Anaheim Street, in Wilmington (Los Angeles), Los Angeles County, California, 90744 (see Figure 1). The Facility latitude is 33° 46' 30" and longitude is 118° 16' 56". The Facility property is defined by Los Angeles County Assessor's parcel numbers 7412-22-6, 7412-22-8, 7412-22-9, 7412-22-10, 7412-24-2 and 7412-24-3.

The Facility consists of a 424 acre parcel on which refining operations have been conducted since 1919. The Facility is roughly square in shape, and is bounded on the north by Anaheim Street (see Figure 2). Harbor Regional Park occupies the property north of Anaheim Street. The northern portion of the Facility borders the Air Liquide Plant and Anaheim Street. The eastern part of the Facility borders a residential area, CertainTeed Roofing Plant, and a part of Interstate 110 (Harbor Freeway). The western part of the site borders Gaffey Street, and west of Gaffey Street is a Naval Refueling Depot surrounded by residential areas to the north, west, and south. To the south, the ConocoPhillips Facility is bordered by the Port of Los Angeles distribution center and Amerigas LPG Storage Facility. A small residential/commercial area is located near the intersection of the Harbor Freeway and Anaheim Street.

The Stormwater Holding Basin No. 2 (SHB 2) is located along the eastern boundary of the refinery in an area known as Block 6 (see Figure 2). The SHB 2 has surface dimensions of 436.75 feet by 356.5 feet and a depth at the deepest point of 34 feet (see Figure 3).

## 5. Description of Facility Operations

The ConocoPhillips Wilmington Plant (the Facility) is a refining, processing and storage facility that processes intermediate petroleum streams provided by pipeline from ConocoPhillips' Carson Plant into finished products. The intermediate products received from the Carson Plant include naphtha distillates, diesel distillates and gas oils. The major products currently produced and stored at the Wilmington Plant include automotive gasoline, jet fuel and diesel.

The Facility has eight principal processes: naphtha unionfining/reforming, alkylation, mid-barrel unionfining, gas oil unionfining and catalytic cracking, sulfur production, sulfuric acid production, blending/shipping/storage, and utilities. Utilities include steam/air, water, hydrocarbon relief and recovery systems, and electric cogeneration.

The SHB 2 will be used to provide emergency storage in the event that the storm water and/or process wastewater storage capacity of the refinery is exceeded due to a catastrophic release, refinery-wide power outage or rainfall during severe storms. SHB 2 receives storm water runoff from the plant during intense rainfall events and seldom receives overflow process water from the Oil Recovery Unit.

## 6. Facility History

The ConocoPhillips Los Angeles Refinery consists of two plants that are connected by pipelines and together provide complete refinery facilities. The locations of the two plants are shown on Figure 1. The Wilmington Plant (Facility) is located at 1660 West Anaheim Street in Wilmington, California. The Carson plant is located at 1520 East Sepulveda Boulevard in Carson.

ConocoPhillips Company became the owner and operator of the Facility when Conoco and Phillips Petroleum Corporations merged in October 2002. Phillips had acquired the Facility when it acquired the Tosco Corporation in September 2001. Tosco had purchased the Facility from Unocal (formerly Union Oil Company of California) in April 1997. Unocal had owned and operated the Wilmington Plant since 1919. The Carson Plant was purchased by Unocal from Shell Oil Company in 1991.

Groundwater monitoring of the Facility is conducted pursuant to Cleanup and Abatement Order (CAO) 94-139 issued by the Regional Water Quality Control Board (RWQCB), Los Angeles Region, to Unocal on December 22, 1994.

SHB 2 was placed under RCRA interim status in 1990 because of the new RCRA TCLP rule which states that any surface impoundment that handles refinery process water automatically becomes a RCRA-regulated surface water impoundment.

On July 24, 1995, DTSC approved SHB 2 Closure Plan. The Closure Plan included the design and installation procedures for a synthetic liner on top of the existing

concrete liner that covered the entire surface of the impoundment, a leachate collection system to prevent accumulation of liquid between the synthetic liner and the concrete liner, and a liquid evacuation system to remove liquid that could accumulate on top of the synthetic liner system.

On June 25, 1996, DTSC acknowledged the closure report and certification dated March 25, 1996 on closure activities for SHB 2.

DTSC received the Post-Closure Permit Application dated November 1998 for the Stormwater Holding Basin 2. A Revised Post Closure Permit Application dated June 2007 and additional revisions dated December 2007 were received by DTSC.

## **7. Facility Size and Type for Fee Purposes**

The Facility is categorized as a large post-closure facility pursuant to Health and Safety Code section 25205.7(d)(5). For the purpose of Health and Safety Code section 25205.4, the post-closure period for the Facility shall be deemed to have started from the effective date of this Post Closure Permit. DTSC may extend the post-closure monitoring period beyond 30 years to protect human health and the environment.

### **PART III. GENERAL CONDITIONS**

#### **1. PERMIT APPLICATION DOCUMENTS**

The DTSC-approved Revised Application dated June 2007 (Approved Application) is hereby made a part of this Permit by reference. The Part "A" Application dated June 11, 2007 and the Revised Post Closure Permit Application dated June 2007 (Original application dated November 1998), with additional revisions dated December 2007 are hereby made a part of this Permit by reference.

#### **2. EFFECT OF PERMIT**

- (a) The Permittee shall comply with the terms and conditions of this Permit and the provisions of the Health and Safety Code and California Code of Regulations (Cal. Code Regs.), title 22, division 4.5. The issuance of this Permit by DTSC does not release the Permittee from any liability or duty imposed by federal or state statutes or regulations or local ordinances, except the obligation to obtain this Permit. The Permittee shall obtain the permits required by other governmental agencies, including but not limited to, those required by the applicable land use planning, zoning, hazardous waste, air quality, water quality, and solid waste management laws for the construction and/or operation of the Facility.
- (b) The Permittee is permitted to operate, monitor and maintain this Facility for post closure activities in accordance with the terms and conditions of this Permit and the Approved Application. Any management of hazardous wastes not specifically authorized in this Permit or otherwise authorized by DTSC is strictly prohibited.
- (c) Compliance with the terms and conditions of this Permit does not constitute a defense to any action brought under any other law governing protection of public health or the environment, including, but not limited to, one brought for any imminent and substantial endangerment to human health or the environment.
- (d) DTSC's issuance of this Permit does not prevent DTSC from adopting or amending regulations that impose additional or more stringent requirements than those in existence at the time this Permit is issued and does not prevent the enforcement of these requirements against the Permittee.
- (e) Failure to comply with any term or condition set forth in the Permit in the time or manner specified herein will subject the Permittee to possible enforcement action including but not limited to penalties pursuant to Health and Safety Code section 25187.

- (f) Failure to submit any information required in connection with the Permit, or falsification and/or misrepresentation of any submitted information, is grounds for revocation of this Permit (Cal. Code Regs., tit. 22, §66270.43).
- (g) In case of conflicts between the Approved Application and the Permit, the Permit conditions take precedence.
- (h) This Permit includes and incorporates by reference any conditions of waste discharge requirements issued to the Facility by the State Water Resources Control Board or any of the California Regional Water Quality Control Boards and any conditions imposed pursuant to section 13227 of the Water Code.

3. COMPLIANCE WITH CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

A Notice of Exemption has been prepared in accordance with the requirements of Public Resources Code, section 21000 et seq. and the California Environmental Quality Act Guidelines, which are codified in title 14, California Code of Regulations, section 15070 et seq.

4. ENVIRONMENTAL MONITORING

The Permittee shall comply with the applicable environmental monitoring and response program requirements of California Code of Regulations, title 22, division 4.5, chapter 14, articles 6 and 17.

- (a) For the purpose of title 22, California Code of Regulations, section 66264.91(b), the elements of the Groundwater Monitoring and Response Program (GWMRP) for the Facility are those described in Section V and Attachment F (Water Quality Sampling and Analysis Plan (SAP)) of the Approved Application.
- (b) For the purpose of title 22, California Code of Regulations, section 66264.92, the Water Quality Protection Standard for the Facility is described in Section V(E) and in Section 2 of Attachment F of the approved Post Closure Application.
- (c) For the purpose of title 22, California Code of Regulations, section 66264.93, the Constituents of Concern (COC) for the Facility are described in Section V(E) and in Section 2 of Attachment F of the approved Post Closure Application. During future sampling events, if the Facility finds Appendix IX constituents in the groundwater that are not already identified in the GWMRP as COCs, the Facility shall add them to the list of COCs.

- (d) For the purpose of title 22, California Code of Regulations, section 66264.94, the Concentration Limits for the Facility are described in Section V(E) of the approved Post Closure Application. For constituents where California Maximum Contaminant Levels (MCLs) for drinking water are not available, Facility shall use the water quality objectives within the applicable RWQCB Basin Plan. MCLs and water quality Basin Plan objectives shall be used as the Concentration Limits until such time that the RWQCB establishes site-wide cleanup standards for the Facility.
- (e) For the purpose of title 22, California Code of Regulations, section 66264.95, the Monitoring Points and Points of Compliance for each regulated unit at the Facility are described in Section V(A) and in Section 2 of Attachment F of the approved Post Closure Application.
- (f) For the purpose of title 22, California Code of Regulations, section 66264.96 the Compliance Period for each regulated unit at the Facility shall be 30 years beginning with the date of the issuance of the post closure permit. DTSC may extend the post-closure monitoring period beyond the 30 year to protect human health and the environment.
- (g) For the purpose of title 22, California Code of Regulations, section 66270.31, the monitoring, recording, and reporting program for the Facility is described in Section V and Attachment F of the approved Post Closure Application. Permittee shall collect groundwater surface level measurements and monitoring data as required in the approved Application and Cleanup and Abatement Order 94-139. Data for key monitoring parameters or constituents of concern obtained from the designated compliance wells shall be shown on separate graphs. At a minimum, these constituents shall include benzene, toluene, ethylbenzene, xylenes and the fuel oxygenates tert butyl alcohol (TBA), methyl t-butyl ether (MBTE) and diisopropyl ether (DIPE).
- (h) The Facility shall comply with the requirements of the Regional Water Quality Control Board pursuant to Cleanup and Abatement Order 94-139 issued in 1994 and any other future requirements by the Regional Water Quality Control Board. A copy of all the groundwater monitoring and corrective action reports shall also be submitted to DTSC.

5. ANNUAL HAZARDOUS WASTE REDUCTION AND MINIMIZATION CERTIFICATION

The Permittee shall certify annually that it has a hazardous waste reduction and minimization program and method in place and shall keep the annual certification as part of its Operating Record in accordance with Health and Safety Code section 25202.9 (a).

6. ACCESS

- (a) DTSC, its contractors, employees, agents, and/or any United States Environmental Protection Agency representatives are authorized to enter and freely move about the Facility for the purposes of interviewing Facility personnel and contractors; inspecting records, operating logs, and contracts relating to the Facility; reviewing progress of the Permittee in carrying out the terms of Part VI of the Permit; conducting such testing, sampling, or monitoring as DTSC deems necessary; using a camera, sound recording, or other documentary-type equipment; verifying the reports and data submitted to DTSC by the Permittee; or confirming any other aspect of compliance with this Permit, Health and Safety Code, division 20, chapter 6.5, and California Code of Regulations, title 22, division 4.5. The Permittee shall provide DTSC and its representatives access at all reasonable times to the Facility and any other property to which access is required for implementation of any provision of this Permit, Health and Safety Code, division 20, chapter 6.5, and California Code of Regulations, title 22, division 4.5, and shall allow such persons to inspect and copy all records, files, photographs, documents, including all sampling and monitoring data, that pertain to work undertaken pursuant to the entire Permit or undertake any other activity necessary to determine compliance with applicable requirements.
  
- (b) Nothing in this Permit shall limit or otherwise affect DTSC's right to access and entry pursuant to any applicable State or federal laws and regulations.

#### **PART IV. PERMITTED UNITS AND ACTIVITIES**

This Permit authorizes the operation, monitoring and maintenance only of the facility units and activities listed below. The Permittee shall not treat, store or otherwise manage hazardous waste in any unit, other than those specified in this Part IV, unless otherwise authorized by DTSC. Any modifications to a unit or activity authorized by this Permit require the written approval of DTSC in accordance with the permit modification procedures set forth in California Code of Regulations, title 22, division 4.5.

For the purpose of California Code of Regulations, title 22, section 66270.1(c) and other similar, unit-specific regulatory requirements, this Facility has one post closure Hazardous Waste Management Unit. This unit is described in detail in the Approved Post Closure Permit Application and is as follows:

**UNIT NAME:**

Stormwater Holding Basin No. 2 (SHB 2)

**LOCATION:**

SHB 2 is located along the eastern boundary of the refinery in an area known as Block 6. See Figure 2.

**ACTIVITY TYPE:**

Groundwater monitoring and cap inspection and maintenance

**ACTIVITY DESCRIPTION:**

The activity includes groundwater monitoring, site inspections of the XR-5 liner (FMC), stormwater pump, groundwater pump, sump level instruments and other associated structures and or equipments and repair and maintenance as described in Sections VI(C) and IX(G). The Facility on which the SHB 2 is located has an extensive groundwater monitoring and remediation system. This groundwater monitoring and remediation system is ongoing in accordance with RWQCB Cleanup and Abatement Order (CAO) No. 94-139. Since the entire Facility is covered by the corrective action specified in the CAO, the compliance monitoring conducted for the shallow aquifer, as related to the SHB 2, is considered as a "Corrective Action Monitoring Program". Upgradient well 1A and downgradient wells 22, 23 and 24A have been designated as the Point of Compliance (POC) wells for Appendix IX monitoring. The groundwater shall be monitored in accordance with RWQCB Cleanup and Abatement Order No. 94-139 and in accordance with Section V

and Attachment F (Water Quality Sampling and Analysis Plan) of the Post-Closure Permit Application.

#### PHYSICAL DESCRIPTION:

The SHB2 has surface dimensions of 436.75 feet by 356.5 feet and a depth at the deepest point of 34 feet (see Figure 3). The existing concrete lined impoundment has been modified as per the approved closure plan by installing a Flexible Membrane Liner over its entire surface. The requirements of a RCRA cap have been met by the combined system of the concrete basin (Primary liner), the flexible membrane liner (secondary liner) and the sump pump and instrumentation (leachate detection and removal). The foundation for the liner system is the existing basin floor. The basin floor and side slopes were constructed of four-inch thick concrete reinforced with #4 rebar at ten-inch spacing. Prior to installation of the liner system, the basin was cleaned by hydroblasting.

The bottom of the SHB 2 is below the water table which results in groundwater entering into the basin via a designed pressure relief valve. Closure-in-place consisted of the installation of the liner system designed to prevent intrusion of water during emergency use into the existing groundwater table. The SHB 2 will continue to receive intruding groundwater which will be removed with the use of the existing sump and pump, as is the current practice.

Situated between the liner and existing concrete is a drainage geonet material. The drainage geonet allows continued groundwater flow to the existing sump for removal by pumping.

Any water that collects on top of the liner will be removed by pumping. Since the entire liner shall be exposed for visual inspection and kept dry, unless immediate pumping is required, intruding groundwater would become immediately visible if any type of hole or tear occurs in the liner.

SHB 2 has a capacity of 22,000,000 gallons.

#### WASTE SOURCES:

SHB 2 was placed under RCRA interim status in 1990 because of the new RCRA TCLP rule which states that any surface impoundment that handles refinery process water automatically becomes a RCRA-regulated surface water impoundment. After receipt of final wastes, the SHB2 was cleaned in March 1994. Since that time, there has been no placement of hazardous waste into SHB2. No waste treatment was ever conducted in SHB 2.

SHB 2 was constructed in fill material which has been shown to contain metals, VOCs, and SVOCs. The groundwater beneath the SHB 2 is contaminated. Because the constituents of concern in the waste streams of the SHB 2 could not be distinguished from

other sources of contamination at the Facility (e.g., free-phase and dissolved-phase hydrocarbons in the uppermost aquifer underlying the refinery) post closure care and groundwater monitoring is required.

**WASTE TYPES:**

Previous RCRA regulated wastes contained in SHB 2 water and sludge included both listed and characteristic waste. The SHB 2 water contained benzene, a RCRA characteristic waste (D018). The sludge, defined as primary oil/water/solids separation sludge, was a RCRA listed waste (F037). The sludge was considered hazardous due to physical properties and chemical characteristics. The hazardous characteristics exhibited by the sludge included toxicity due to leachable benzene content (D018), ignitability (D001) and reactivity due to sulfide content (D003).

The following table identifies the Federal Waste Codes, the RCRA Characteristic Waste Numbers and the California Waste Codes applicable to the waste previously stored in SHB 2.

**HAZARDOUS WASTES FORMERLY HANDLED AT SHB 2**

<b>Waste Description</b>	<b>Federal Waste Code</b>	<b>Character Waste Number</b>	<b>California Waste Code</b>
Wastewater in SHB 2		D018	222
SHB 2 Sludge	F 037	D001, D003 & D018	222

**UNIT-SPECIFIC SPECIAL CONDITIONS:**

The Permittee shall conduct Inspection, Visual Monitoring and Maintenance during the post closure care period as described in Sections VI(C) and IX(G) of the approved Post Closure Application.

The groundwater shall be monitored in accordance with RWQCB Cleanup and Abatement Order No. 94-139 and/or any subsequent order and in accordance with Section V and Appendix F (Water Quality Sampling and Analysis Plan) of the Post-Closure Permit Application.

If under extreme emergencies like during severe storms and massive power outages it becomes necessary to use SHB 2 to temporarily store overflow of storm or process water from the refinery process water treatment system instead of releasing it to surface drains, Permittee shall ensure no hazardous waste is stored in the unit, for any period of time, and shall commence immediate pumping of the storm or process water after sampling.

## **PART V. SPECIAL CONDITIONS**

- (a) The Permittee shall comply with the requirements specified in California Code of Regulations, title 22, section 66264.75 and include the monitoring and response program data in each year's Annual Report to be submitted each March 1.
- (b) No hazardous waste shall be stored in SHB 2 for any period of time.
- (c) If under extreme emergencies it becomes necessary to use SHB 2 to temporarily store overflow of storm or process water, the storm or process water in the SHB 2 shall be sampled prior to pumping out. The record of analysis shall be sent to DTSC part of the semiannual groundwater monitoring report.

## **PART VI. CORRECTIVE ACTION**

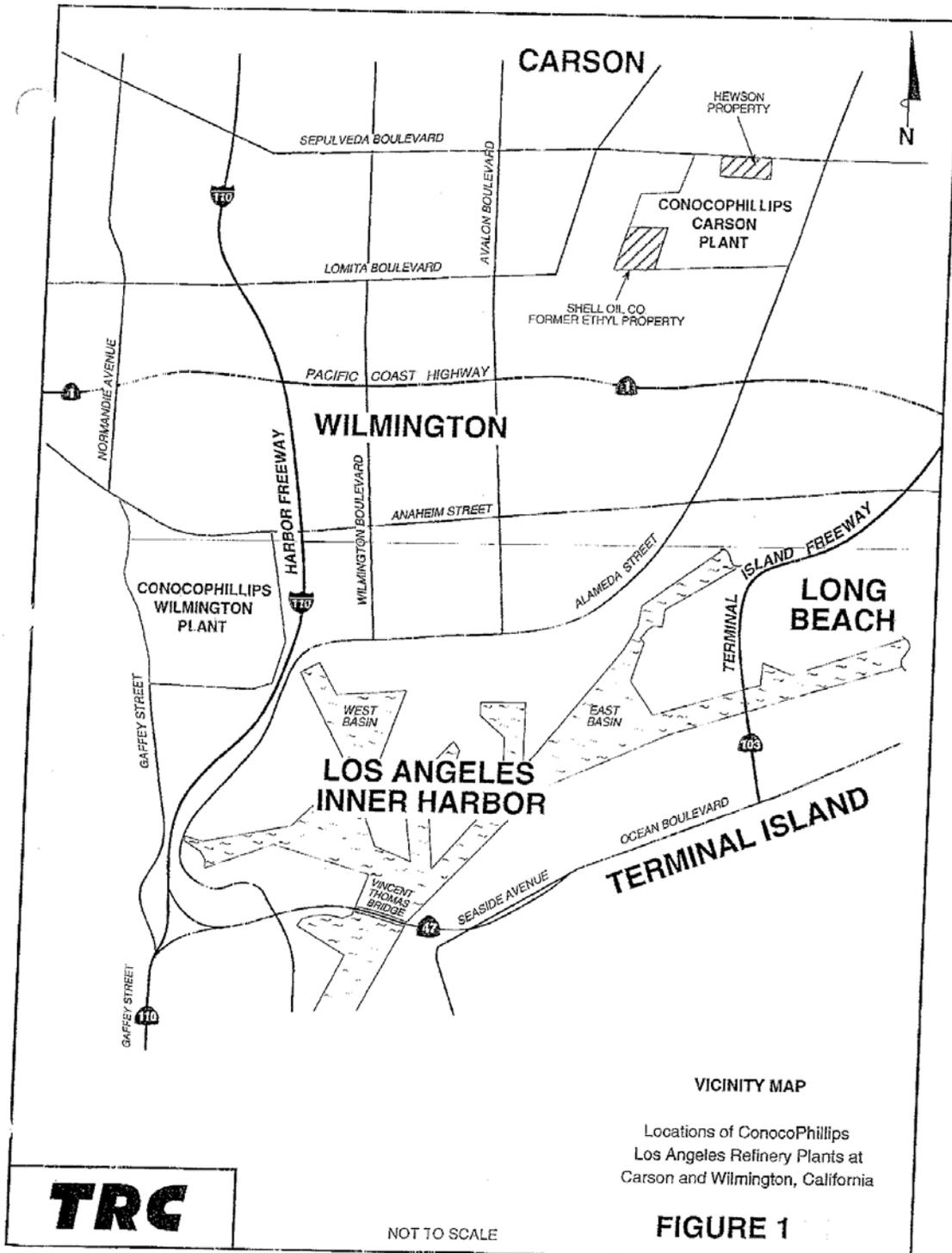
### **A. SUMMARY OF THE CORRECTIVE ACTION AND GROUNDWATER REMEDIATION**

All known solid waste management units at the Facility have been identified pursuant to Cleanup and Abatement Order 94-139 (CAO 94-139). Pursuant to CAO 94-139, a Master Work Plan (TRC; updated June 2005) was prepared and approved by the RWQCB which details the descriptions, characterizations, and cleanup timelines for all the known solid waste management units, including SHB 2 at ConocoPhillips' Los Angeles Refinery in Wilmington.

Based on the previous investigations and ongoing ground water monitoring, the principal contaminants of concern for the Facility are petroleum hydrocarbons. With the exception of localized areas where light non-aqueous phase (LNAPL) is found, the petroleum hydrocarbons are present as either soil contamination or as dissolved constituents in groundwater. The Facility has a monitoring-well network comprising 74 monitoring wells. Seventy monitoring wells at the Facility are screened in the water table aquifer. In addition, the Facility has an active water supply well (WW-6) screened in the Silverado Aquifer, as well as an inactive water-supply well (WW-5), also screened in the Silverado Aquifer. Four Monitoring wells are screened in the Lynwood Aquifer. These wells were added to the monitoring program beginning with the Fall 2006 groundwater monitoring event. Selected offsite Los Angeles County wells screened in the Lynwood and Silverado Aquifers are also included in the monitoring program for assessment of Tert-Butyl Alcohol (TBA) migration.

### **B. CONDITIONS**

The Permittee shall conduct corrective action at the Facility pursuant to Health and Safety Code, sections 25187 and 25200.10. Corrective action shall be carried out under the oversight of the Regional Water Quality Control Board (RWQCB) pursuant to Cleanup and Abatement Order 94-139 issued in 1994 and any other future requirements by RWQCB and USEPA.



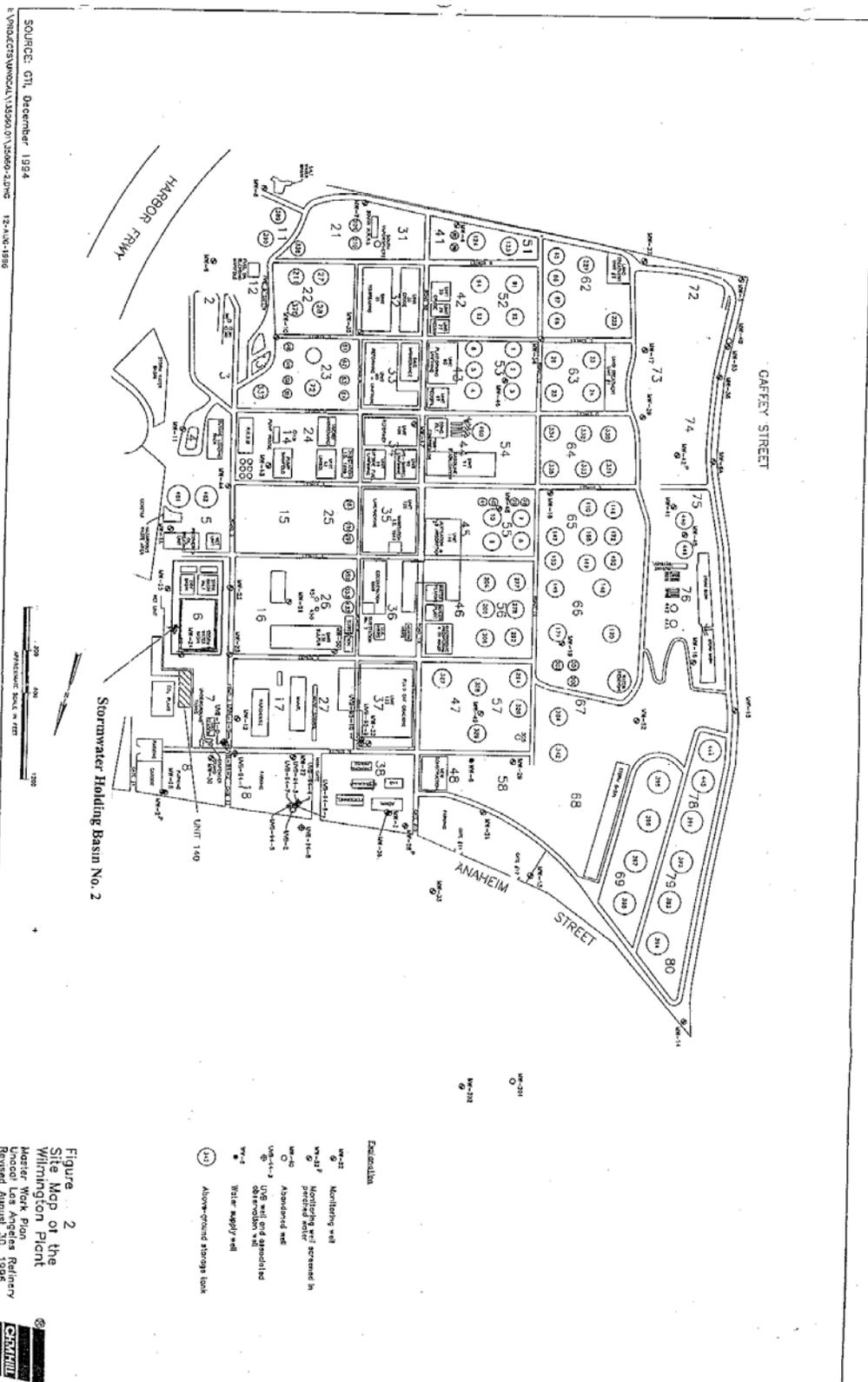
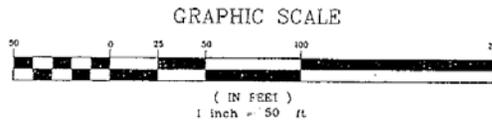
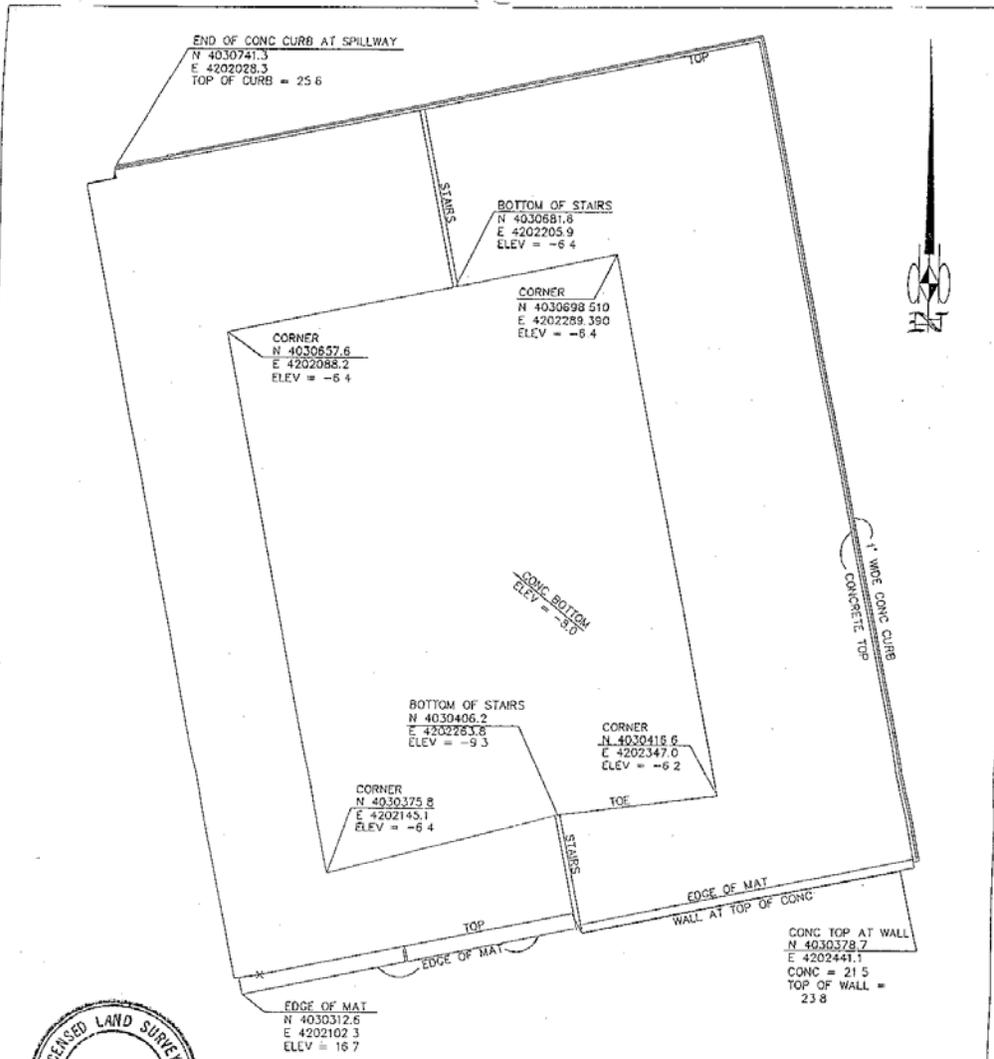


Figure 2  
 Site Map of the  
 Wilmington Plant  
 Master Work Plan  
 Incoor Los Angeles Refinery  
 Revised August 30, 1995





PREPARED UNDER MY SUPERVISION

*David O Knell*  
 DAVID O. KNELL, LSS301, EXPIRES 12-31-99

**SURVEYOR'S NOTES:**

1. DATE OF SURVEY: 26 APRIL 1998
2. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1927 (CALIFORNIA ZONE VII COORDINATES)
3. VERTICAL DATUM: NGVD 1929  
 USC & GS DISK MARKED J-770-1945 SET IN CONCRETE POST 44 FEET W OF CENTER LINE GAFFEY ST 15.3 FT N OF CENTER LINE ENTRANCE TO POLICE TARGET RANGE 1 FT E OF CHAIN LINK FENCE, 2 FT S OF 4 FT PIPE MARKER ELEV =

POST-CLOSURE USE OF PROPERTY ON OR IN WHICH HAZARDOUS WASTES REMAIN AFTER PARTIAL OR FINAL CLOSURE MUST NEVER BE ALLOWED TO DISTURB THE INTEGRITY OF THE FINAL COVER LINER(S) OR ANY OTHER COMPONENTS OF THE CONTAMNENT SYSTEM OR THE FUNCTION OF THE FACILITY'S MONITORING SYSTEMS

**FIGURE 3**

MAP FOR

**TOSCO**

STORMWATER HOLDING BASIN NO. 2  
 LOCATION AND PARTIAL TOPOGRAPHIC SURVEY  
 LOS ANGELES REFINERY

DULIN & BOYNTON  
 LICENSED SURVEYORS

228 E. WILLOW STREET • (310)426-8464 FAX (310)426-7707 • DOWAL, HILL, CA 90608