

**STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION**

**MONITORING AND REPORTING PROGRAM NO. CI-9185
FOR
CONOCOPHILLIPS COMPANY
76 STATION NO. 3692
(UST FILE NO. 913350770)**

I. REPORTING REQUIREMENTS

- A. ConocoPhillips Company (hereinafter Discharger) shall implement this monitoring program on the effective date of enrollment under Regional Board Order No. R4-2005-0030.

Monitoring reports shall be received by the dates in the following schedule:

<u>Reporting Period</u>	<u>Report Due</u>
January – March	April 15
April – June	July 15
July – September	October 15
October – December	January 15

The first monitoring report under this Program is due by **January 15, 2007**.

- B. If there is no discharge during any reporting period, the report shall so state.
- C. By January 30 of each year, beginning January 30, 2007, the Discharger shall submit an annual summary report to the Regional Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous calendar year. In addition, the Discharger shall explain 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 (WDRs).
- D. Each monitoring report shall contain a separate section titled "Summary of Non-Compliance" which discusses the compliance record and the corrective actions taken or planned that may be needed to bring the discharge into full compliance with WDRs. This section shall be located at the front of the report and shall clearly list all non-compliance with discharge requirements, as well as all excursions of effluent limitations.
- E. The Discharger shall comply with requirements contained in Section G of Order No. R4-2005-0030 "*Monitoring and Reporting Requirements*" in addition to the aforementioned requirements.

II. DISCHARGE MONITORING REQUIREMENTS

The quarterly reports shall contain the following information regarding the discharge activities:

1. A location map showing ozone injection wells/probes.

2. Written and tabular summary defining:

- Depth of insertion and depth to groundwater;
- Quantity of ozone injected at each station; and
- Total amount of ozone applied at Site.

3. Groundwater monitoring wells shall not be used as ozone injection points.

III. GROUNDWATER MONITORING PROGRAM

A groundwater-monitoring program shall be designed to detect and evaluate impacts associated with the discharge activities. The monitoring program shall consist of upgradient wells BC-4, BC-5, BC-6; downgradient wells BC-1, BC-7, MW-10; and source wells BC-2, MW-17 (Figure 6). These sampling stations shall not be changed and any proposed change of monitoring locations shall be identified and approved by the Regional Board Executive Officer (Executive Officer) prior to their use.

The Discharger shall conduct baseline sampling from the above-mentioned groundwater monitoring wells one or two weeks prior to the initial ozone injection, and regular samplings for the duration of remediation in accordance with the following monitoring program:

<u>CONSTITUENT</u>	<u>UNITS</u> ¹	<u>TYPE OF SAMPLE</u>	<u>MINIMUM FREQUENCY OF ANALYSIS</u>
pH ⁵	pH units	grab	Bi-weekly ² /Monthly ³ /Quarterly ⁴
Temperature ⁵	°F	grab	Bi-weekly ² /Monthly ³ /Quarterly ⁴
Oxidation-reduction potential ⁵	millivolts	grab	Bi-weekly ² /Monthly ³ /Quarterly ⁴
Specific conductivity ⁵	µmhos/cm	grab	Bi-weekly ² /Monthly ³ /Quarterly ⁴
Ferrous iron	µg/L	grab	Bi-weekly ² /Monthly ³ /Quarterly ⁴
Dissolved Oxygen ⁵	µg/L	grab	Bi-weekly ² /Monthly ³ /Quarterly ⁴
Total petroleum hydrocarbons (as gasoline)	µg/L	grab	Bi-weekly ² /Monthly ³ /Quarterly ⁴
Benzene,	µg/L	grab	Bi-weekly ² /Monthly ³ /Quarterly ⁴
Ethylbenzene	µg/L	grab	Bi-weekly ² /Monthly ³ /Quarterly ⁴
Toluene	µg/L	grab	Bi-weekly ² /Monthly ³ /Quarterly ⁴
Total xylenes	µg/L	grab	Bi-weekly ² /Monthly ³ /Quarterly ⁴
MTBE	µg/L	grab	Bi-weekly ² /Monthly ³ /Quarterly ⁴
TBA	µg/L	grab	Bi-weekly ² /Monthly ³ /Quarterly ⁴

TAME	µg/L	grab	Bi-weekly ² /Monthly ³ /Quarterly ⁴
DIPE	µg/L	grab	Bi-weekly ² /Monthly ³ /Quarterly ⁴
ETBE	µg/L	grab	Bi-weekly ² /Monthly ³ /Quarterly ⁴
Ethanol	µg/L	grab	Bi-weekly ² /Monthly ³ /Quarterly ⁴
Methane	µg/L	grab	Bi-weekly ² /Monthly ³ /Quarterly ⁴
Formaldehyde	µg/L	grab	Bi-weekly ² /Monthly ³ /Quarterly ⁴
Acetates	µg/L	grab	Bi-weekly ² /Monthly ³ /Quarterly ⁴
Total organic carbon	µg/L	grab	Bi-weekly ² /Monthly ³ /Quarterly ⁴
Total dissolved solids	mg/L	grab	Quarterly
Sulfate	mg/l	grab	Quarterly
Chloride	mg/L	grab	Quarterly
Boron	mg/L	grab	Quarterly
Sodium	mg/L	grab	Quarterly
Carbon dioxide	mg/L	grab	Quarterly
Manganese	µg/L	grab	Quarterly
Total iron	µg/L	grab	Quarterly
Alkalinity	µg/L	grab	Quarterly
Total chromium	µg/L	grab	Quarterly ⁶
Chromium six	µg/L	grab	Quarterly ⁶

mg/L: milligrams per liter; µg/L: micrograms per liter; µmhos/cm: microohms per centimeter;
 °F: degree Fahrenheit.

² Bi-weekly sampling for the first month of injection.

³ Monthly sampling is required for the next two months of injection.

⁴ Quarterly sampling thereafter.

⁵ Field instrument may be used to measure this parameter.

⁶ Monitoring is required only for the well(s) that this constituent is detected in the baseline sample(s).

All groundwater monitoring reports must include, at a minimum, the following:

- a. Well identification, date and time of sampling;
- b. Sampler identification, and laboratory identification;
- c. Quarterly observation of groundwater levels, recorded to 0.01 feet mean sea level and groundwater flow direction.

IV. MONITORING FREQUENCIES

Specifications in this monitoring program are subject to periodic revisions. Monitoring requirements may be modified or revised by the Executive Officer based on review of monitoring data submitted pursuant to this Order. Monitoring frequencies may be adjusted to a less frequent basis or parameters and locations dropped by the Executive Officer if the Discharger makes a request and the request is backed by statistical trends of monitoring data submitted.

V. CERTIFICATION STATEMENT

Each report shall contain the following completed declaration:

"I certify under penalty of law that this document, including all attachments and supplemental information, was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated 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 a fine and imprisonment.

Executed on the ____ day of _____ at _____.

(Signature)

(Title)"

All records and reports submitted in compliance with this Order are public documents and will be made available for inspection during business hours at the office of the California Regional Water Quality Control Board, Los Angeles Region, upon request by interested parties. Only proprietary information, and only at the request of the Discharger, will be treated as confidential.

Ordered by: _____
Jonathan S. Bishop
Executive Officer

Date: November 30, 2006