

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

**MONITORING AND REPORTING PROGRAM NO. CI-9200  
FOR  
FORMER MOBIL STATION 18-LDM**

**ENROLLMENT UNDER REGIONAL BOARD  
ORDER NO. R4-2005-0030: SERIES NO. 062  
UST FILE NO. 900250070**

I. REPORTING REQUIREMENTS

- A. ExxonMobil Oil Corporation (hereinafter Discharger) shall implement this monitoring program on the effective date (November 6, 2006) under Regional Board Order No. R4-2005-0030. The first monitoring report under this Program is due by January 15, 2007.

Monitoring reports shall be received by the dates according to 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

- B. If there is no discharge or injection during any reporting period, the report shall so state. Monitoring reports must be addressed to the Regional Board, Attention: Information Technology Unit.
- C. By March 1<sup>st</sup> of each year, 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.

## II. INJECTION MONITORING REQUIREMENTS

The quarterly reports shall contain the following information regarding the injection activities. If there is no injection, during any reporting period, the report shall so state:

1. Location Map showing injection points for ferrous sulfate, hydrogen peroxide, and hydrochloric acid (pH buffer) (Fenton's Reagent).
2. Written summary defining:
  - Depth of injection points;
  - Quantity of Fenton's Reagent injected per injection point; and
  - Total amount of Fenton's Reagent injected at site.

## III. GROUNDWATER MONITORING PROGRAM

A groundwater-monitoring program shall be designed to detect and evaluate impacts associated with the injection activities of the Fenton's Reagent. The following shall constitute the monitoring program for wells MW-11A, MW-20B, MW-25B1, MW-26B, MW-38B, all located downgradient from the injection well MW-25B. Because the well is situated south of a fault, no upgradient well will be needed for monitoring the progress of injection. (Figure 2).

Groundwater from the wells noted above shall be monitored in accordance with the following discharge monitoring program:

<u>CONSTITUENT</u>	<u>UNITS</u> <sup>1</sup>	<u>TYPE OF SAMPLE</u>	<u>MINIMUM FREQUENCY OF ANALYSIS</u>
pH <sup>5</sup>	pH units	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
Temperature <sup>5</sup>	°F	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
Oxidation-reduction potential <sup>5</sup>	milivolts	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
Specific conductivity <sup>5</sup>	µmhos/cm	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
Ferrous iron	µg/L	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
Dissolved Oxygen <sup>5</sup>	µg/L	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
Fuel oxygenate compounds including methyl tertiary butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), and tertiary butyl alcohol (TBA)	µg/L	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>

Formaldehyde	µg/L	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
Benzene	µg/L	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
Ethylbenzene	µg/L	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
Toluene	µg/L	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
Total xylenes	µg/L	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
Acetone	µg/L	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
Methane	µg/L	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
Total petroleum hydrocarbon as gasoline (TPH <sub>G</sub> )	µg/L	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
Total organic carbon	µg/L	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
Total dissolved solids	mg/L	grab	Quarterly <sup>4</sup>
Sulfate	mg/l	grab	Quarterly <sup>4</sup>
Chloride	mg/L	grab	Quarterly <sup>4</sup>
Boron	mg/L	grab	Quarterly <sup>4</sup>
Sodium	mg/L	grab	Quarterly <sup>4</sup>
Carbon dioxide	mg/L	grab	Quarterly <sup>4</sup>
Manganese	µg/L	grab	Quarterly <sup>4</sup>
Total iron	µg/L	grab	Quarterly <sup>4</sup>
Total Chromium and chromium six <sup>6</sup>	µg/L	Grab	Quarterly <sup>4</sup>
Alkalinity	µg/L	grab	Quarterly <sup>4</sup>

<sup>1</sup> mg/L: milligrams per liter; µg/L: micrograms per liter; µmhos/cm: microohms per centimeter; °F: degree Fahrenheit.

<sup>2</sup> Weekly sampling events are required for the first two weeks from the injection date

<sup>3</sup> Monthly sampling events are required after the two weekly sampling events for a period of six months from the injection date.

<sup>4</sup> Quarterly sampling events are required after the first six months sampling events.

<sup>5</sup> Field instrument will be used to test for this constituent.

<sup>6</sup> One time sampling event for the first monitoring event. If detected, quarterly monitoring is required from the same monitoring wells.

All groundwater monitoring reports must include, at 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)"

ExxonMobil Oil Corporation  
Order No. R4-2005-0030 (Series No. 062)  
Monitoring and Reporting Program No. CI-9200

File No. 900250070

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 7, 2006