

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

**MONITORING AND REPORTING PROGRAM NO. CI-8915
FOR
MARK'S MOBIL STATION
5400 ATLANTIC AVENUE, LONG BEACH**

ORDER NO. R4-2005-0030 (Series No. 007)

I. REPORTING REQUIREMENTS

- A. The Discharger shall implement this monitoring program on the effective date of this enrollment under Regional Board Order No. R4-2005-0030. The first monitoring report under this Program is due by October 15, 2005. Monitoring reports must be addressed to the Regional Board, Attention: Information Technology Unit.

Subsequent 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

- B. If there is no discharge or injection during the reporting period, the report shall so state.
- C. By March 1 of each year, the Discharger shall submit an annual summary report to the Regional Board with the first annual report due March 1, 2006. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous calendar 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.
- D. The Discharger shall comply with requirements contained in Section G of Order No. R4-2002-0030 "*Monitoring and Reporting Requirements*" in addition to the aforementioned requirements.

II. OXYGEN RELEASE COMPOUND (ORC) INJECTION MONITORING REQUIREMENTS

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

1. Location Map showing injection point(s) of the ORC used during the reporting period.
2. Boring log of each injection point or vertical cross-section diagram of injection point(s) indicating groundwater depth and the placement of the ORC during the reporting period.
3. Written supplemental summary including, but not limited to:
 - Depth of injection point(s);
 - Quantity of ORC injected at each point; and
 - Total amount of ORC injected.

III. GROUNDWATER MONITORING PROGRAM

A groundwater monitoring program shall be designed to detect and evaluate impacts associated with the ORC injection activities. The following shall constitute the monitoring program for up gradient well MW-10, down gradient wells MW-14 and MW-15; and source wells MW-4 and MW-5. 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 wells MW-4, MW-5, MW-10, MW-14 and MW-15 one or two weeks prior to the ORC injection activities and after the construction of monitoring well MW-15.

<u>CONSTITUENT</u>	<u>UNITS</u>	<u>TYPE OF SAMPLE</u>	<u>MINIMUM FREQUENCY OF ANALYSIS</u>
Total Petroleum Hydrocarbon as Gasoline (EPA Method 8015M)	µg/l	grab	Quarterly
Benzene, Toluene, Ethylene benzene, Xylenes, Methyl tertiary butyl ether (MTBE), tertiary butyl alcohol (TBA), ethyl tertiary butyl ether (ETBE), di-isopropyl ether (DIPE), and tertiary amyl methyl ether (TAME) (EPA Method 8260B)	µg/l	grab	Quarterly
Acetone (EPA Method 8260B)	µg/l	grab	Quarterly

Formaldehyde	µg/l	grab	Quarterly
Total Chromium and chromium six ¹	µg/l	grab	Quarterly
<u>CONSTITUENT</u>	<u>UNITS</u>	<u>TYPE OF SAMPLE</u>	<u>MINIMUM FREQUENCY OF ANALYSIS</u>
Total Organic Carbon (EPA Method 9060 Modified)	µg/l	grab	Quarterly
Total Dissolved Solids	mg/l	grab	Quarterly
Biochemical Oxygen Demand	mg/l	grab	Quarterly
Chemical Oxygen Demand	mg/l		Quarterly
Oxidation-Reduction Potential	Millivolts	grab	Quarterly
Groundwater depth	Feet, below ground surface (bgs)	In situ	Quarterly
Dissolved Oxygen	µg/l	grab	Quarterly
PH	pH units	grab	Quarterly
Major Anions (chloride, sulfate, nitrate, nitrite, and sulfide)	µg/l	grab	Quarterly
Major Cations (Calcium, magnesium, potassium, sodium)	mg/l	grab	Quarterly
Carbon Dioxide	µg/l	grab	Quarterly

¹ The Discharger is required to monitor for total chromium and chromium six if total chromium and/or chromium six is detected in the baseline samples. The monitoring is required only for the well(s) that the total chromium and/or chromium six was detected.

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)"

Ordered by: _____
Jonathan S. Bishop
Executive Officer

Date: July 12, 2005