STATE OF CALIFORNIA CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

LOS ANGELES REGION

MONITORING AND REPORTING PROGRAM NO. CI-8940

FOR

FORMER FAST GAS #538, TARGET STORE T-290
ENROLLMENT UNDER REGIONAL BOARD
ORDER NO. R4-2005-0030
SERIES NO. 019

I. REPORTING REQUIREMENTS

A. Tesoro Petroleum Companies, Inc. (hereinafter Dischargers) shall implement this monitoring program on the effective date of this enrollment (August 16, 2005) under Regional Board Order No. R4-2005-0030. The first monitoring report under this Program is due by October 15, 2005.

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

Report Due
April 15
July 15
October 15
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 January 30 of each year, beginning January 30, 2006, the Dischargers 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 Dischargers 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 Dischargers 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. 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 ozone, hydrogen peroxide, and oxygen
- 2. Written summary defining:
 - Depth of injection points;
 - Quantity of ozone, hydrogen peroxide, and oxygen injected per injection point; and
 - Total amount of ozone, hydrogen peroxide, and oxygen injected at site
- 3. Monthly visual inspection at each injection well shall be conducted to evaluate the well casing integrity for a period of three months after each injection. The quarterly report shall include a summary of the visual inspection.

III. GROUNDWATER MONITORING PROGRAM

A groundwater-monitoring program shall be designed to detect and evaluate impacts associated with the injection activities (ozone, hydrogen peroxide, and oxygen). The following shall constitute the monitoring program for up-gradient wells MW-C and MW-D; source area wells EW-1, EW-2, EW-3, EW-4, MW-A, MW-F and MW-O; and downgradient well MW-H. 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 Dischargers shall conduct baseline sampling from wells MW-C, MW-D, EW-1, EW-2, EW-3, EW-4, MW-A, MW-F, MW-O and MW-H two weeks prior to ozone, hydrogen peroxide, and oxygen solutions injections and regular sampling with the required frequencies for the following constituents:

CONSTITUENT	UNITS ¹	TYPE OF SAMPLE	MINIMUM FREQUENCY OF ANALYSIS
PH ⁵	PH units	grab	Weekly ² /Monthly ³ /Quarterly ⁴
Temperature ⁵	°F	grab	Weekly ² /Monthly ³ /Quarterly ⁴
Oxidation-reduction potential ⁵	Milivolts	grab	Weekly ² /Monthly ³ /Quarterly ⁴
Specific conductivity ⁵	μmhos/cm	grab	Weekly ² /Monthly ³ /Quarterly ⁴
Ferrous iron	μg/L	grab	Weekly²/Monthly ³/Quarterly ⁴
Dissolved Oxygen ⁵	µg/L	grab	Weekly ² /Monthly ³ /Quarterly ⁴
MTBE	μg/L	grab	Weekly ² /Monthly ³ /Quarterly ⁴
Tert-Butyl Alcohol (TBA)	μg/L	grab	Weekly ² /Monthly ³ /Quarterly ⁴

Former Fast Gas #538, Target Store T-290 Monitoring and Reporting Program No. CI-8940

Di-isopropyl Ether (DIPE)	ua/l	grab	Weekly ² /Monthly ³ /Quarterly ⁴	
, , , , , , , , , , , , , , , , , , , ,	μg/L		L '	
Ethyl-t-Butyl Ether (ETBE)	μg/L	grab	Weekly ² /Monthly ³ /Quarterly ⁴	
Tert-Amyl-Methyl Ether (TAME)	μg/L	grab	Weekly ² /Monthly ³ /Quarterly ⁴	
Total Petroleum Hydrocarbons as gasoline (TPHg)	μg/L	grab	Weekly ² /Monthly ³ /Quarterly ⁴	
1,2,4-trimethylbenzene	μg/L	grab	Weekly ² /Monthly ³ /Quarterly ⁴	
Benzene	μg/L	grab	Weekly ² /Monthly ³ /Quarterly ⁴	
Ethylbenzene	μg/L	grab	Weekly ² /Monthly ³ /Quarterly ⁴	
Toluene	μg/L	grab	Weekly ² /Monthly ³ /Quarterly ⁴	
Total xylenes	μg/L	grab	Weekly ² /Monthly ³ /Quarterly ⁴	
Formaldehyde	μg/L	grab	Weekly ² /Monthly ³ /Quarterly ⁴	
Acetone	μg/L	grab	Weekly ² /Monthly ³ /Quarterly ⁴	
Ethanol	μg/L	grab	Weekly ² /Monthly ³ /Quarterly ⁴	
Methane	µg/L	grab	Weekly ² /Monthly ³ /Quarterly ⁴	
Total organic carbon	μg/L	grab	Weekly ² /Monthly ³ /Quarterly ⁴	
Total dissolved solids	mg/L	grab	Quarterly ⁴	
Sulfate	Mg/l	grab	Quarterly ⁴	
Chloride	mg/L	grab	Quarterly ⁴	
Boron	mg/L	grab	Quarterly ⁴	
Sodium	mg/L	grab	Quarterly ⁴	
Carbon dioxide	mg/L	grab	Quarterly ⁴	
Manganese	µg/L	grab	Quarterly ⁴	
Total iron	μg/L	grab	Quarterly ⁴	
Chromium (VI)	mg/L	grab	Quarterly ⁶ Quarterly ⁶ Quarterly ⁴	
Total Chromium	mg/L	grab		
Alkalinity	μg/L	grab		

 $^{^{1}\,}$ mg/L: milligrams per liter; µg/L: micrograms per liter; µmhos/cm: microohms per centimeter; $^{\circ}$ F: degree Fahrenheit. $^{2}\,$ Weekly sampling events are required for the first two weeks from the injection date

Monthly sampling events are required after the two weekly sampling events for a period of six months from the injection date.

⁴ Quarterly sampling events are required after the first six months sampling events.

⁵Field instrument will be used to test for this constituent.

⁶One time sampling event is required for this constituent. If detected, quarterly monitoring is required from the same monitoring wells.

File No. 01-116 Order No. R4-2005-0030

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 Dischargers 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:

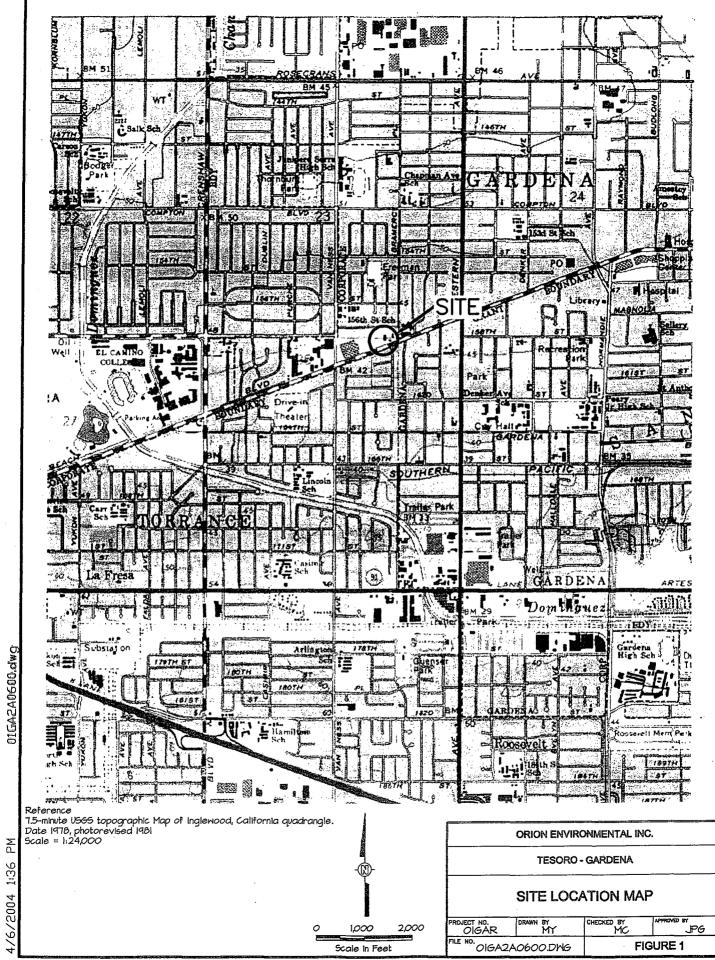
"I certify under penalty of law that this document, including all attachments and supplemental information, was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry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

-	_ at	 	day of _	Executed on the
(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 Dischargers, will be treated as confidential.

Ordered by:

Jonathan S. Bishop Executive Officer Date: August 16, 2005



Benzene ND:0,5 MTBE ND<0.5 **₩**MH-H (17.75) ♦ MW-K (17.93) 157th Street Sidewalk TPHg 3,300 Treatment EM-2 (18.01) Benzene 96 ₩W-J (18,09) Compound MTBE 150 Shopping Center TPHg 2,400 Benzene 34 MTBE 17 TPHg 36,000 2,000 Benzene MTBE 3,100 Apparent Property Boundary MW-N (18.40 TPHg 130 Benzene MTBE 130 TPHg 36,000 TPHg 56,000 Benzene 2,500 4,900 Benzene MTBE 280 MTBE 10,000 Target Store Parking Lot TPHg 600 TPHg 18,000 38 Benzene Benzene 1,600 MTBE 210 1,700 MTBE MW-L (18.67) 'Shopping Center **♦**MW-1 (18.76) EM-I TPHg 16,000 980 Benzene MTBE 240 MM-E/EM-4 (18.97) Legend (19.09) Groundwater Monitoring Well and Groundwater Elevation on 19 and 21 October 2004 570 TPHg Redondo Beach Blvd 9 Benzene MTBE 5 (18.01) Extraction Well and Groundwater Elevation on 19 and 21 October 2004 MM-D (19.26) MM-C (19.29) Total Petroleum Hydrocarbons as Gasoline in µg/l as Analyzed Using EPA Method 8260B TPHg 12,000 12,000 TPHg Benzene 190 Scale -Benzene In µg/l as Anaiyzed Using EPA Method 8021 Or 8,260B Benzene 190 MTBE 160 MTBE 160 50 100 4,200 TPHg . - Methyl Tert-butyl Ether In µg/l as Analyzed Using EPA Method 8021 or 8260B 110 Benzene ORION ENVIRONMENTAL INC. MTBE ND<1.0 DESCRIPTION TPHg ND:50 Third Quarter 2005 6H Monitoring TESORO - GARDENA Fourth Quarter 2005 6H Monitoring Not Detected at the Reporting Limit Listed Benzene ND:0.5 First Guarter 2004 6th Manitoring SITE PLAN AND MTBE MTBE ND-0.5 Second Quarter 2004 6H Monitoring 1,000 MTBE Concentration Contour (µg/l) ISOCONCENTRATION CONTOURS Third Quarter 2004 6H Monitoring tbd To Be Determined OIGAR ^{E NO.} OIGA2A0425.DWG FIGURE 2

