

STATE OF CALIFORNIA  
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LOS ANGELES REGION  
MONITORING AND REPORTING PROGRAM NO. CI-9264  
FOR  
SM SERVICE STATION  
ENROLLMENT UNDER REGIONAL BOARD  
ORDER NO. R4-2007-0019  
SERIES NO. 019

I. REPORTING REQUIREMENTS

- A. SM Service Station (hereinafter Discharger) shall implement this monitoring program on the effective date of this enrollment under Regional Board Order No. R4-2007-0019.

Monitoring reports shall be received by the due 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 monitoring program is due by October 15, 2007.

- 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, 2008, 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 (WDR).
- 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 the WDR. 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. In addition to the aforementioned requirements, the Discharger shall comply with requirements contained in Section G of Order No. R4-2007-0019 "Monitoring and Reporting Requirements".

II. DISCHARGE 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.
2. Written summary defining:
  - Depth of injection points;
  - Quantity of the Fenton's Reagent injected at each injection point; and
  - Total amount of the Fenton's Reagent injected at the 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.
4. To avoid groundwater monitoring network reduction, data bias, and well screen clogging or alteration, no groundwater monitoring wells shall be used as injection points during the proposed Fenton's Reagent injection. Separate injection points/wells must be installed at the Site for the proposed Fenton's Reagent injection.

III. GROUNDWATER MONITORING PROGRAM

A groundwater-monitoring program shall be designed to detect and evaluate impacts associated with the injection activities. The monitoring well network must include MW-3, MW-4 and MW-7 as background wells; MW-1, MW-2 and MW-8 as source wells; and MW-9 as downgradient well. 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 downgradient well (MW-9) one or two weeks prior to the proposed Fenton's Reagent injection and regular sampling with the required frequencies from all the monitoring wells in the monitoring network for the following constituents:

<u>CONSTITUENT</u>	<u>UNITS</u> <sup>1</sup>	<u>TYPE OF SAMPLE</u>	<u>MINIMUM FREQUENCY OF ANALYSIS</u>
pH <sup>4</sup>	PH units	Grab	Monthly <sup>2</sup> /Quarterly <sup>3</sup>
Temperature <sup>4</sup>	°F	grab	Monthly <sup>2</sup> /Quarterly <sup>3</sup>
Oxidation-reduction potential <sup>4</sup>	Milivolts	grab	Monthly <sup>2</sup> /Quarterly <sup>3</sup>
Specific conductivity <sup>4</sup>	µmhos/cm	grab	Monthly <sup>2</sup> /Quarterly <sup>3</sup>

Ferrous iron	µg/L	grab	Monthly <sup>2</sup> /Quarterly <sup>3</sup>
Dissolved Oxygen <sup>4</sup>	µg/L	grab	Monthly <sup>2</sup> /Quarterly <sup>3</sup>
MTBE	µg/L	grab	Monthly <sup>2</sup> /Quarterly <sup>3</sup>
Tert-Butyl Alcohol (TBA)	µg/L	grab	Monthly <sup>2</sup> /Quarterly <sup>3</sup>
Di-isopropyl Ether (DIPE)	µg/L	grab	Monthly <sup>2</sup> /Quarterly <sup>3</sup>
Ethyl-t-Butyl Ether (ETBE)	µg/L	grab	Monthly <sup>2</sup> /Quarterly <sup>3</sup>
Tert-Amyl-Methyl Ether (TAME)	µg/L	grab	Monthly <sup>2</sup> /Quarterly <sup>3</sup>
Acetone	µg/L	grab	Monthly <sup>2</sup> /Quarterly <sup>3</sup>
Formaldehyde	µg/L	grab	Monthly <sup>2</sup> /Quarterly <sup>3</sup>
Total Petroleum Hydrocarbons as gasoline (TPHg)	µg/L	grab	Monthly <sup>2</sup> /Quarterly <sup>3</sup>
Carbon tetrachloride	µg/L	grab	Monthly <sup>2</sup> /Quarterly <sup>3</sup>
Benzene	µg/L	grab	Monthly <sup>2</sup> /Quarterly <sup>3</sup>
Ethylbenzene	µg/L	grab	Monthly <sup>2</sup> /Quarterly <sup>3</sup>
Toluene	µg/L	grab	Monthly <sup>2</sup> /Quarterly <sup>3</sup>
Total xylenes	µg/L	grab	Monthly <sup>2</sup> /Quarterly <sup>3</sup>
Methane	µg/L	grab	Monthly <sup>2</sup> /Quarterly <sup>3</sup>
Total organic carbon	µg/L	grab	Monthly <sup>2</sup> /Quarterly <sup>3</sup>
Total dissolved solids	mg/L	grab	Quarterly <sup>3</sup>
Sulfate	mg/l	grab	Quarterly <sup>3</sup>
Chloride	mg/L	grab	Quarterly <sup>3</sup>
Boron	mg/L	grab	Quarterly <sup>3</sup>
Carbon dioxide	mg/L	grab	Quarterly <sup>3</sup>
Manganese	µg/L	grab	Quarterly <sup>3</sup>
Total iron	µg/L	grab	Quarterly <sup>3</sup>
Alkalinity	µg/L	grab	Quarterly <sup>3</sup>
Chromium (VI)	mg/L	grab	Quarterly <sup>5</sup>
Total Chromium	mg/L	grab	Quarterly <sup>5</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> Monthly sampling events are required for the first month after the injection date

<sup>3</sup> Quarterly sampling events are required after the first month.

<sup>4</sup> Field instrument will be used to test for this constituent.

<sup>5</sup> One time sampling event is required for this constituent. If detected, quarterly monitoring is required from the same monitoring wells.

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)"

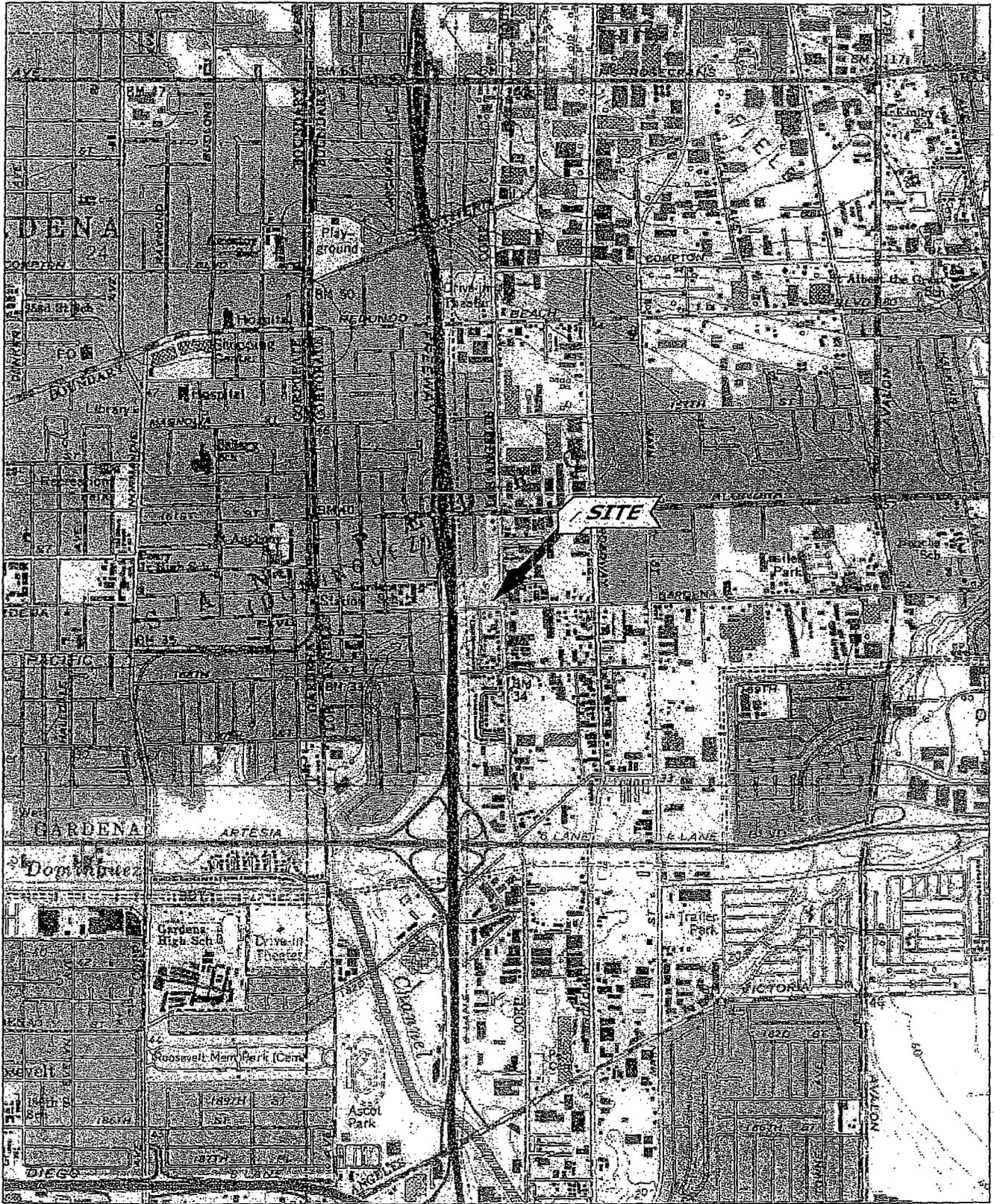
SM Service Station  
Monitoring and Reporting Program No. CI-9264

UST File No. 902480161  
Order No. R4-2007-0019

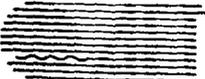
All records and reports submitted in compliance with this Order are public documents and will be made available for inspection during business hours at the office of the California Regional Water Quality Control Board, Los Angeles Region, upon request by interested parties. Only proprietary information,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

Ordered by *David A. Bachowski, AEO*  
*fw* Deborah J. Smith  
Interim Executive Officer

Date: June 20, 2007



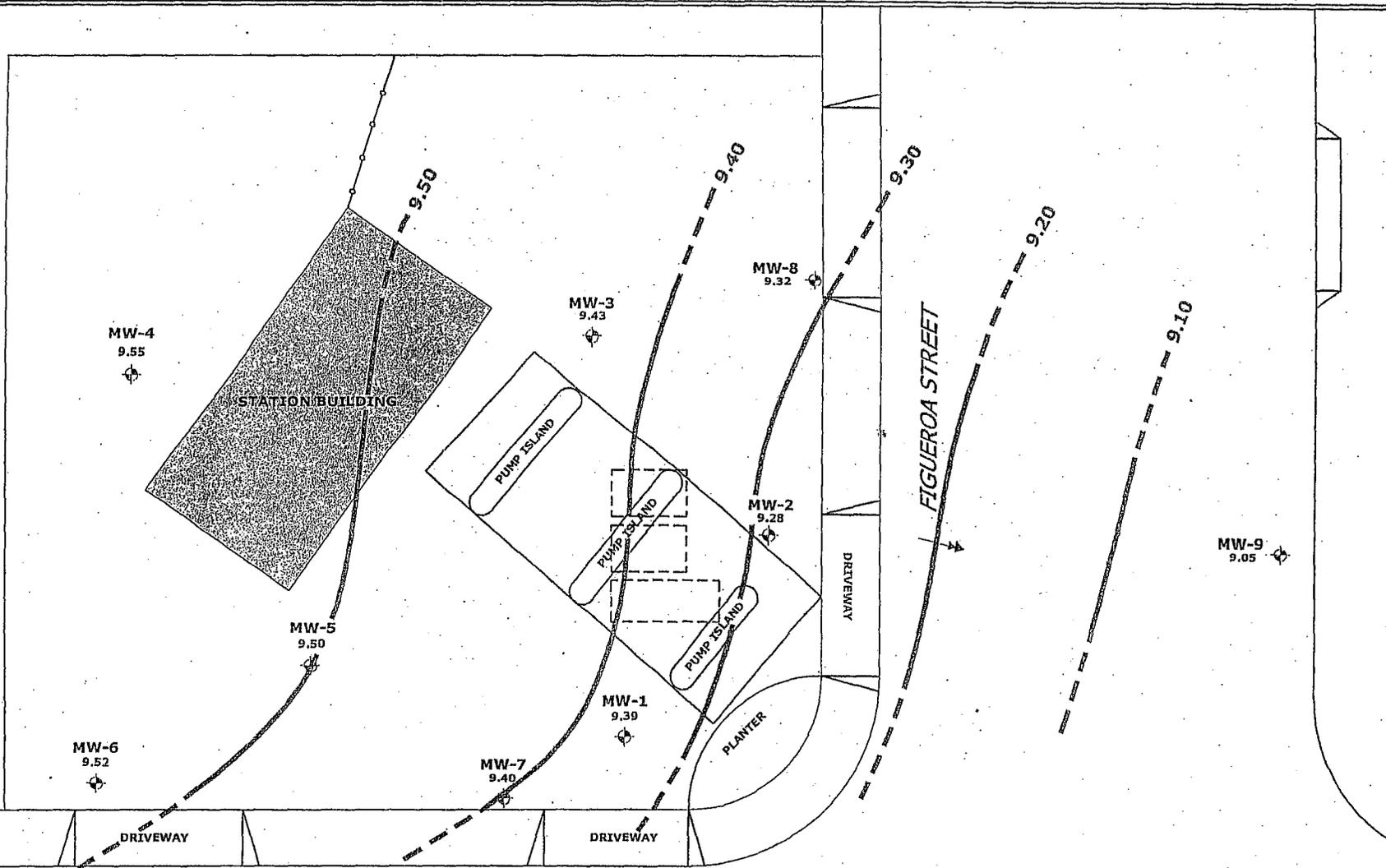
0' 2000' 1 MILE  
 SCALE - 1" = 2000' AT 8.5" x 11"

 **Applied Environmental Technologies, Inc.**  
 4561 Market Street, Suite B • Ventura, California 93003  
 Phone (805)650-1400 Fax (805)650-1576

**SITE LOCATION MAP**  
 16435 FIGUEROA STREET  
 LOS ANGELES, CALIFORNIA

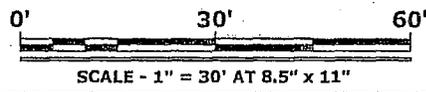
PLATE REFERENCE 075901Q2A PROJECT NUMBER 0759-01

**fig**  
 1



- LEGEND**
- GROUNDWATER MONITORING WELL
  - FORMER FUEL DISPENSER LOCATION
  - CONTOUR OF EQUAL GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (FT/MSL)

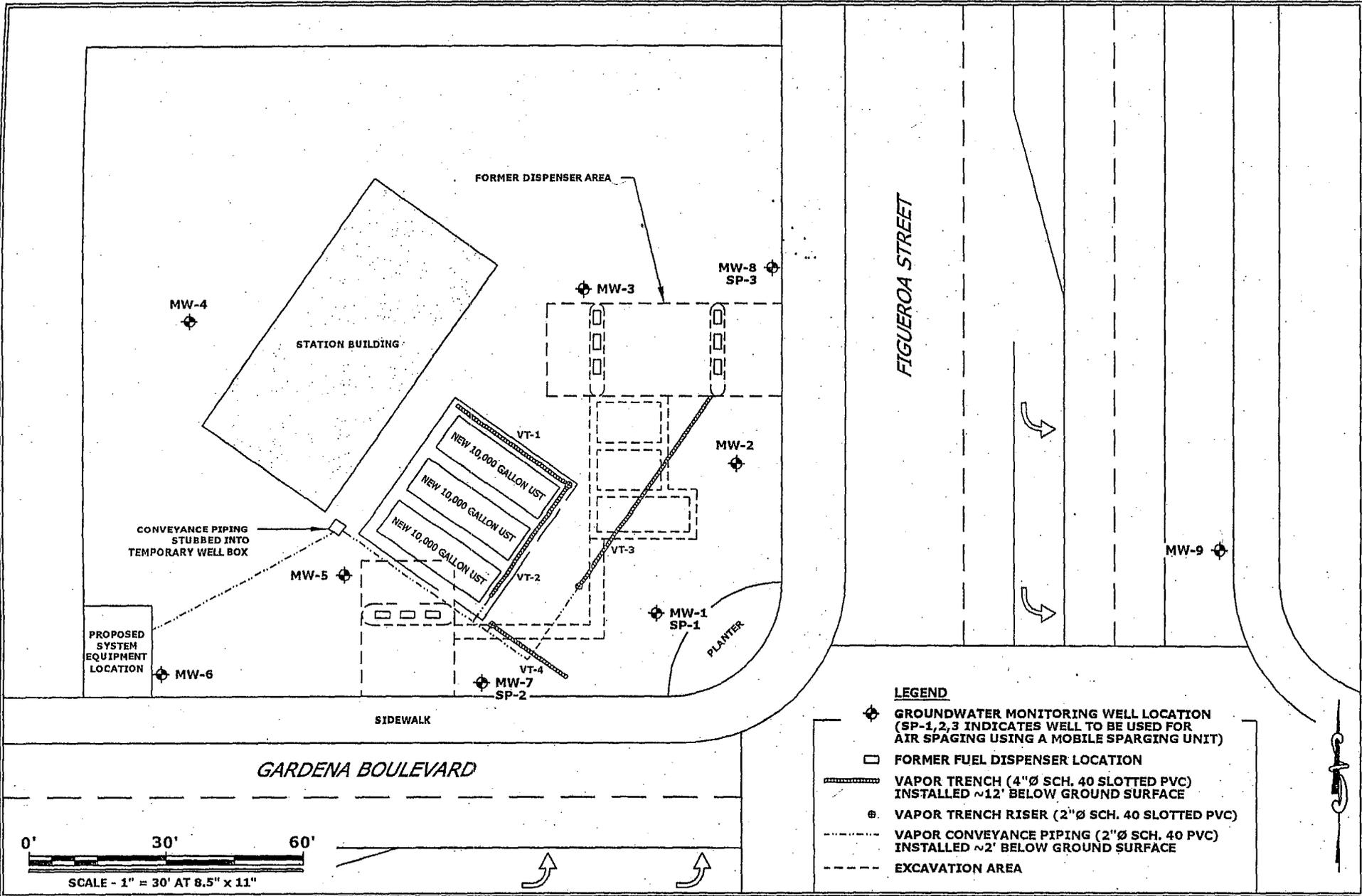
GARDENA BOULEVARD



 **Applied Environmental Technologies, Inc.**  
 4561 Market Street, Suite B • Ventura, California 93003  
 Phone (805)650-1400 Fax (805)650-1576

<b>GROUNDWATER ELEVATION CONTOUR MAP</b> <b>JANUARY, 2007</b> 16435 FIGUEROA STREET LOS ANGELES, CALIFORNIA		
PLATE REFERENCE 075901Q4A	FEBRUARY 6, 2007	PROJECT NUMBER 0759-01

**FIG. 2**

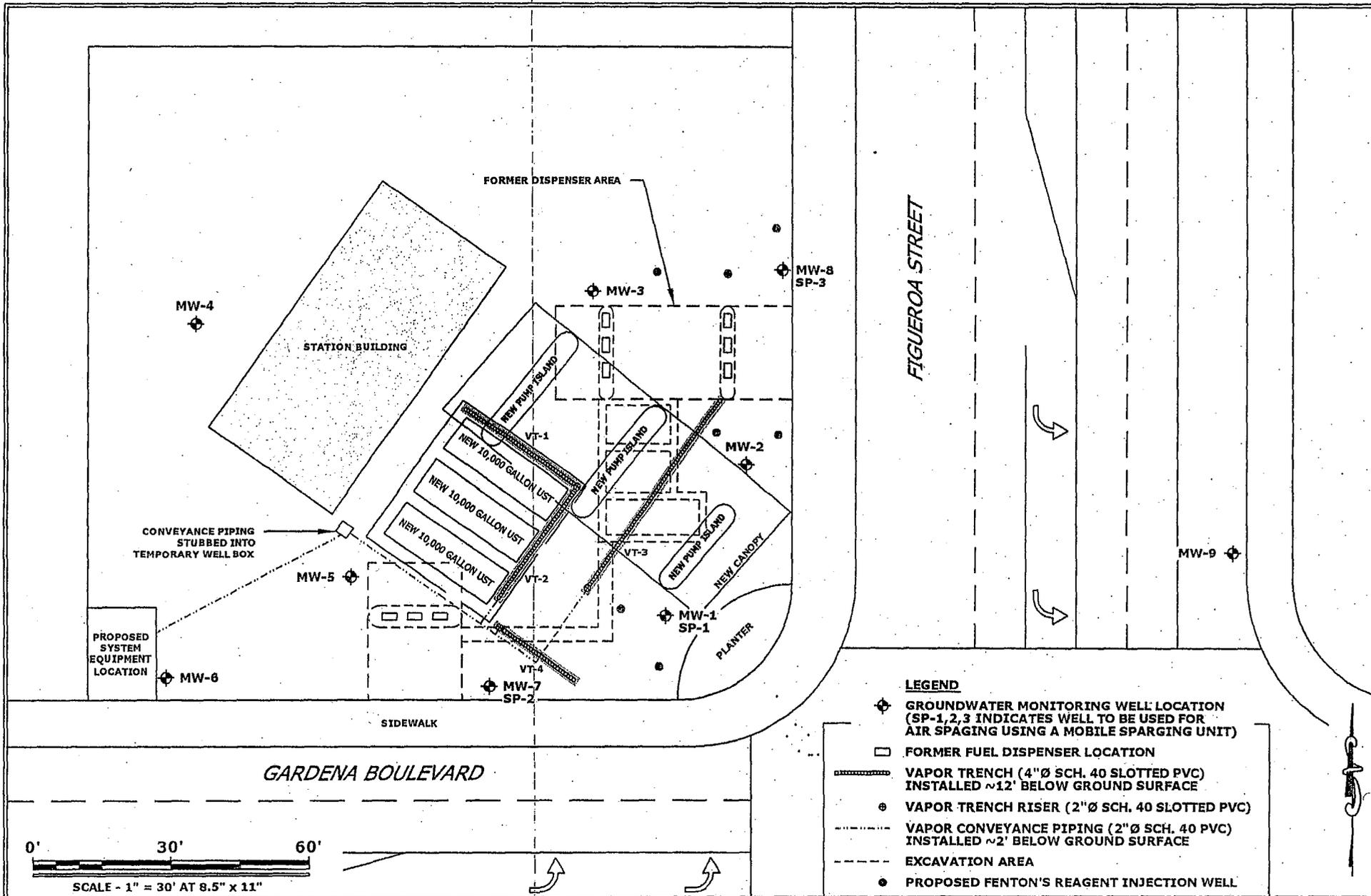


**SITE PLAN SHOWING THE PROPOSED SYSTEM EQUIPMENT LOCATION AND WELL DESIGNATIONS**  
 16435 FIGUEROA STREET  
 LOS ANGELES, CALIFORNIA

FIG. #3

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 4561 Market Street, Suite B •Ventura, California 93003  
 Phone (805)650-1400 Fax (805)650-1576

PLATE REFERENCE 075901A2G      MARCH 6, 2007      PROJECT NUMBER 0759-01



**SITE PLAN SHOWING PROPOSED FENTON'S REAGENT INJECTION WELLS**  
 16435 FIGUEROA STREET  
 LOS ANGELES, CALIFORNIA

**FIG. 4**

**Applied Environmental Technologies, Inc.**  
 4561 Market Street, Suite B • Ventura, California 93003  
 Phone (805) 650-1400 Fax (805) 650-1576

PLATE REFERENCE 075901A2I

MARCH 23, 2007

PROJECT NUMBER 0759-01