

STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION
MONITORING AND REPORTING PROGRAM NO. CI-9234
FOR
76 STATION NO. 5066
2861 MOORPARK RD, THOUSAND OAKS
(OZONE INJECTION FOR GROUNDWATER CLEANUP)
(ORDER NO. R4-2007-0019, SERIES NO. 008)

I. REPORTING REQUIREMENTS

- A. ConocoPhillips Company (hereinafter Discharger) shall implement this monitoring program on the effective date of Regional Board Order No. R4-2007-0019. The first monitoring report under this program, for April-June 2007, shall be received at the Regional Board by July 15, 2007. Subsequent monitoring reports shall be received at the Regional Board according to the following schedule:

<u>Monitoring 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 1st 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. Laboratory analyses – all chemical, bacteriological, and toxicity analyses shall be conducted at a laboratory certified for such analyses by the California Department of Health Services Environmental Laboratory Accreditation Program (ELAP). A copy of the laboratory certification shall be provided each time a new and/or renewal certification is obtained from ELAP.

April 10, 2007

- E. The method limits (MLs) employed for effluent analyses shall be lower than the permit limits established for a given parameter, unless the Discharger can demonstrate that a particular ML is not attainable and obtains approval for a higher ML from the Regional Board Executive Officer (Executive Officer). The Discharger shall submit a list of the analytical methods employed for each test and the associated laboratory quality assurance/quality control (QA/QC) procedures upon request by the Regional Board.
- F. Groundwater samples must be analyzed within allowable holding time limits as specified in 40 CFR Part 136. All QA/QC samples must be run on the same dates when samples were actually analyzed. The Discharger shall make available for inspection and/or submit the QA/QC documentation upon request by Regional Board staff.
- G. Each monitoring report must affirm in writing that "All analyses were conducted at a laboratory certified for such analyses by the California Department of Health Services, and in accordance with current United States Environmental Protection Agency (USEPA) guideline procedures or as specified in this Monitoring Program." Proper chain of custody procedures must be followed and a copy of the completed chain of custody form shall be submitted with the report.
- H. 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 WDRs, as well as all excursions of effluent limitations.
- I. The Discharger shall maintain all sampling and analytical results: date, exact place, and time of sampling; dates analyses were performed; analyst's name; analytical techniques used; and results of all analyses. Such records shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge, or when requested by the Regional Board.
- J. If the Discharger performs analyses on any groundwater samples more frequently than required by this Order using approved analytical methods, the results of those analyses shall be included in the report.
- K. In reporting the monitoring data, the Discharger shall arrange the data in tabular form so that the date, the constituents, and the concentrations are readily discernible. The data shall be summarized to demonstrate compliance with the requirements and, where applicable, shall include results of receiving water observations.

II. INORGANICS/NUTRIENTS INJECTION MONITORING REQUIREMENTS

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

1. Location map showing injection points used for the ozone injection. Groundwater monitoring wells shall not be used as injection points to avoid reduction of groundwater monitoring network, data bias, well screen clogging and alteration. Up to three injection points, As-2, -3, and -5, are currently proposed that can be referenced in the attached Figure 3.
2. Written and tabular summary defining the quantity of ozone injected per month to the groundwater and a summary describing the days on which the injection system was in operation.

III. GROUNDWATER MONITORING PROGRAM

The Discharger shall conduct groundwater monitoring at the site. Groundwater samples shall be collected from groundwater monitoring wells MW-4 (up-gradient); MW-1, -5 and -2 (source area); MW-6 and -8 (down-gradient) on a quarterly basis to monitor the effectiveness of the in-situ groundwater remediation (refer to attached Figures 2 and 4). Groundwater shall be monitored for the duration of the remediation in accordance with the following discharge monitoring program:

CONSTITUENT	UNITS	TYPE OF SAMPLE	MINIMUM FREQUENCY OF ANALYSIS
Total petroleum hydrocarbons as gasoline (TPHg) and as diesel (TPHd)	µg/L	Grab	• Bi-weekly/Quarterly ¹
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)	µg/L	Grab	• Bi-weekly/Quarterly ¹
Methyl tertiary butyl ether (MTBE), Tertiary butyl alcohol (TBA), Tertiary amyl methyl ether (TAME), Di-isopropyl ether (DIPE), ether (ETBE)	µg/L	Grab	• Bi-weekly/Quarterly ¹

Ethanol Formaldehyde Acetone	µg/L	Grab	• Bi-weekly/Quarterly ¹
Total dissolved solids Boron Chloride Sulfate	mg/L	Grab	• Bi-weekly/Quarterly ¹
Oxidation-reduction potential	milivolts		• Bi-weekly/Quarterly ¹
Dissolved Oxygen	µg/L	Grab	• Bi-weekly/Quarterly ¹
Dissolved ferrous iron	µg/L	Grab	• Bi-weekly/Quarterly ¹
Total Chromium and chromium six ²	µg/L	Grab	• Bi-weekly/Quarterly ¹
PH	pH units	Grab	• Bi-weekly/Quarterly ¹
Temperature	⁰ F/ ⁰ C	Grab	• Bi-weekly/Quarterly ¹
Groundwater Elevation	Feet, mean sea level and below ground surface	In situ	• Bi-weekly/Quarterly ¹

¹ One week before injection; Bi-weekly for the first month following injection; and Quarterly thereafter

² The Discharger is required to monitor for total chromium and chromium six only when they are detected in the baseline test.

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

Monitoring frequencies may be adjusted to a less frequent basis or parameters dropped by the Executive Officer if the Discharger makes a request and the Executive Officer determines that the request is adequately supported by statistical trends of monitoring data submitted.

V. CERTIFICATION STATEMENT

Each report shall contain the following 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 _____.

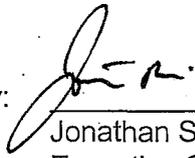
(Signature)

(Title)"

VI. PUBLIC DOCUMENTS

These records and reports are public documents and shall be made available for inspection during normal business hours at the office of the California Regional Water Quality Control Board, Los Angeles Region.

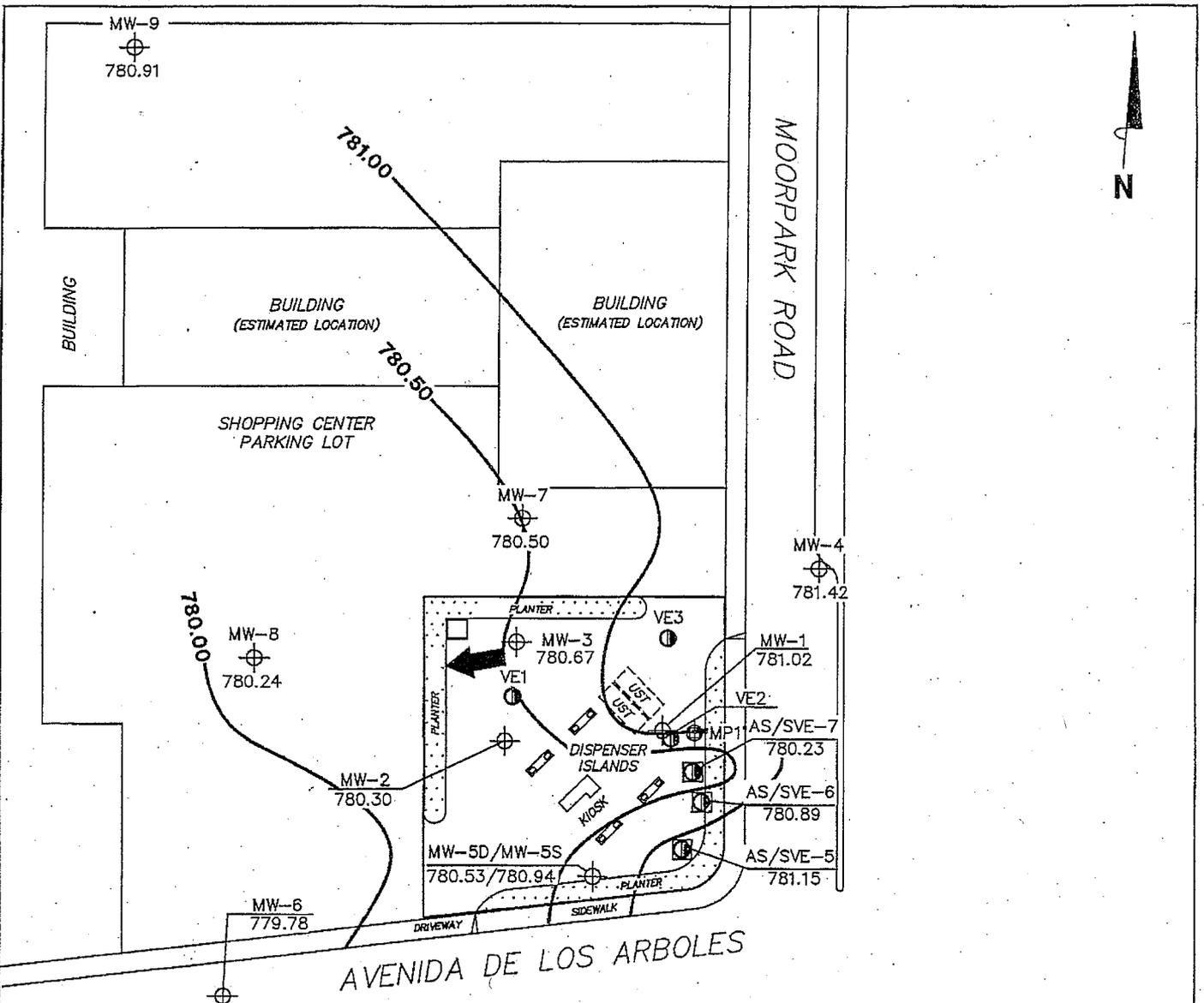
Ordered by:



Jonathan S. Bishop
Executive Officer

Date: April 10, 2007

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LEGEND

- MW-9 Monitoring Well with Groundwater Elevation (feet)
- VE3 Vapor Extraction Well
- MP1 Vapor Monitoring Probe
- AS/SVE-7 Vapor Extraction/Air Sparge Well
- 781.00 Groundwater Elevation Contour
- General Direction of Groundwater Flow

NOTES:
 Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. UST = underground storage tank.

GROUNDWATER ELEVATION CONTOUR MAP
 November 3, 2006

76 Station 5066
 2861 North Moorpark Road
 Thousand Oaks, California

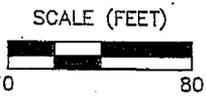
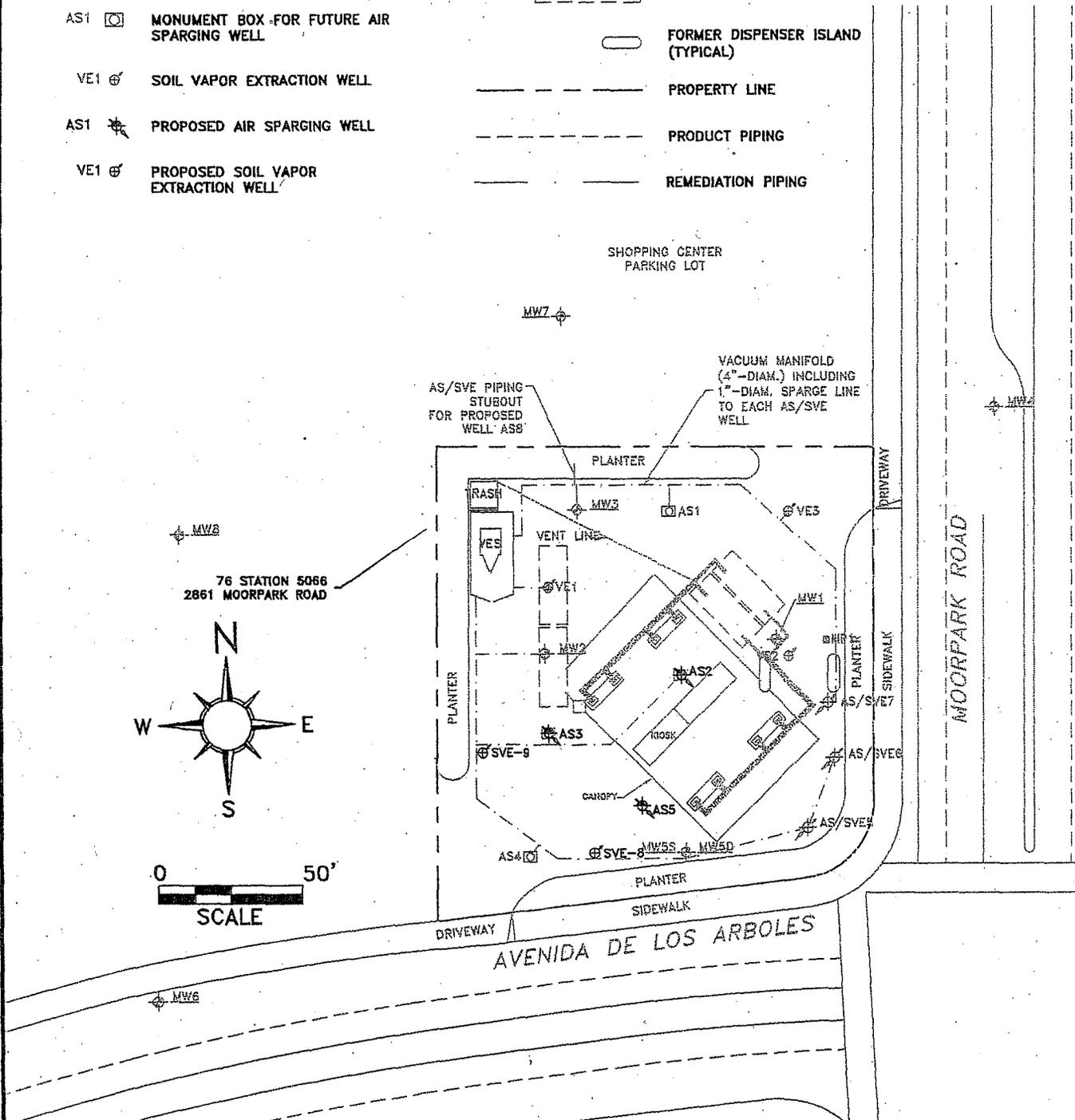


FIGURE 2

LEGEND

- | | |
|--|---|
| <p>MW1 GROUNDWATER MONITORING WELL</p> <p>MP1 VAPOR MONITORING PROBE</p> <p>AS/AVE6 AIR SPARGING/SOIL VAPOR EXTRACTION WELL</p> <p>AS1 MONUMENT BOX FOR FUTURE AIR SPARGING WELL</p> <p>VE1 SOIL VAPOR EXTRACTION WELL</p> <p>AS1 PROPOSED AIR SPARGING WELL</p> <p>VE1 PROPOSED SOIL VAPOR EXTRACTION WELL</p> | <p> UNDERGROUND STORAGE TANK (UST)</p> <p> DISPENSER ISLAND (TYPICAL)</p> <p> FORMER UNDERGROUND TANK STORAGE</p> <p> FORMER DISPENSER ISLAND (TYPICAL)</p> <p> PROPERTY LINE</p> <p> PRODUCT PIPING</p> <p> REMEDIATION PIPING</p> |
|--|---|



PROPOSED AS/SVE WELLS

76 STATION NO. 5066
THOUSAND OAKS, CALIFORNIA

PROJECT NUMBER: 79.75118.1350

DATE: 11/16/2005

FIGURE

APPROVED BY: GAV

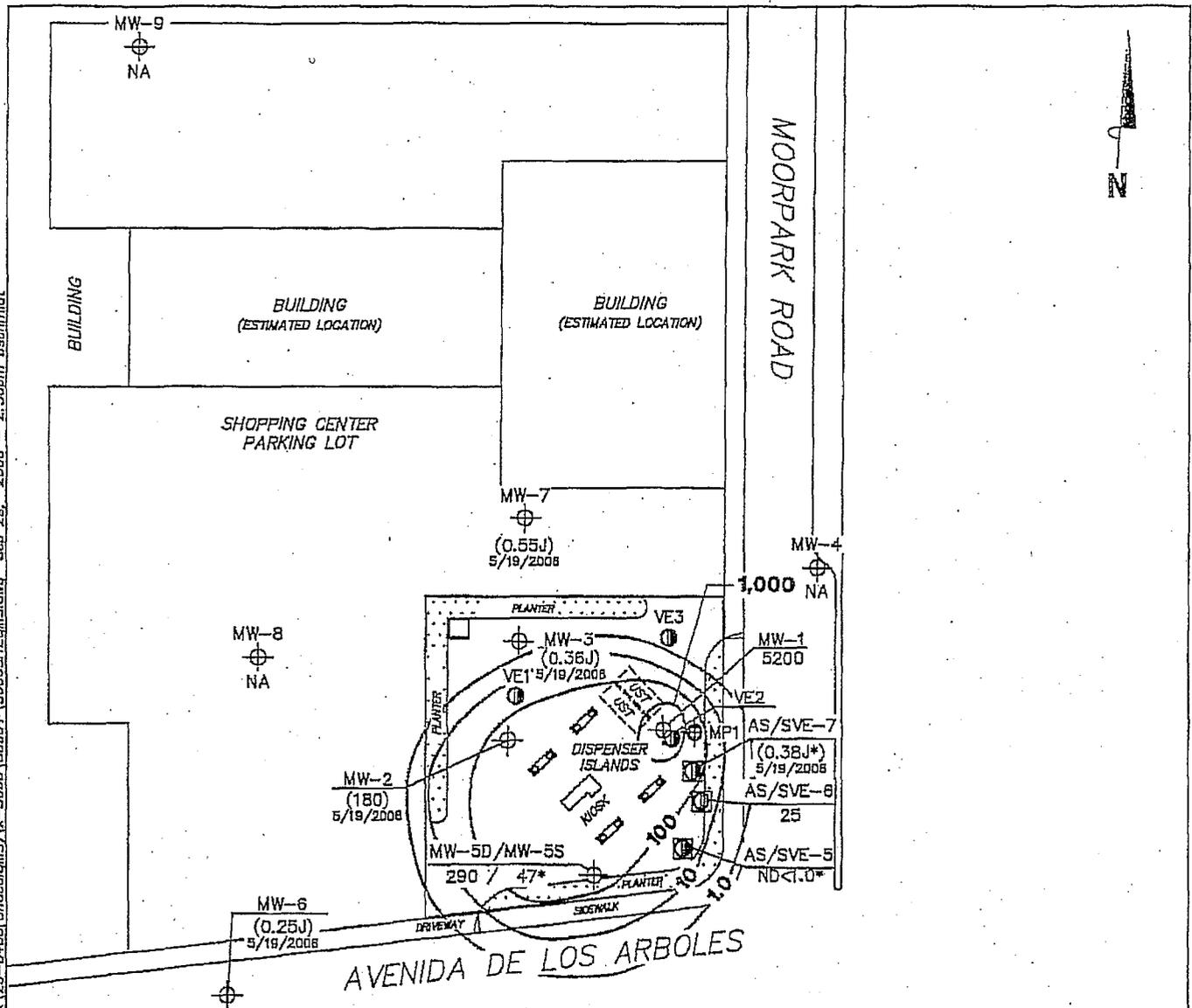
DRAWN BY: DL

3



2325 Skyway Drive, Suite C
Santa Maria, California 93455

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LEGEND

- MW-9 Monitoring Well with Dissolved-Phase Benzene Concentration (µg/l)
- VE3 Vapor Extraction Well
- MPI Vapor Monitoring Probe
- AS/SVE-7 Vapor Extraction/Air Sparge Well
- 1,000- Dissolved-Phase Benzene Contour (µg/l)

NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. NA = not analyzed, measured, or collected. J = estimated concentration, value is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL). UST = underground storage tank. () = representative of historical value. * = not included in contour interpretation.

DISSOLVED-PHASE BENZENE CONCENTRATION MAP
August 19, 2006

76 Station 5066
2861 North Moorpark Road
Thousand Oaks, California



FIGURE 4