

September 13, 1993
File No. 10-2300-23/001

Mr. Ravi Arulanantham
Alameda County Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

SUBJECT: ADDITIONAL SOIL EXCAVATION FOR HYDROCARBON IMPACTED SOILS SITE, FORMER CAL ROCK PLANT, PLEASANTON, CALIFORNIA

Dear Mr. Arulanantham:

This correspondence is prepared on behalf of, and with the approval of CalMat, to summarize our understanding of Alameda Counties requirements, with regard to further excavation and characterization activities at the former Cal Rock Plant, Pleasanton, California.

It is our understanding that Alameda County requires that the following criteria be applied at the site, to mitigate potential environmental impacts:

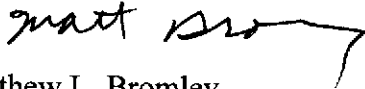
- Additional soil excavation in the hot spot areas of the excavation side walls (Plate 1).
- Collection of five additional soil samples in the excavation side walls to be analyzed for total petroleum, oil and grease, and for leachable petroleum oil and grease following the TCLP Method with deionized water extraction at detection limits of $<200 \mu\text{g/l}$; the criteria for cessation of additional excavation activities and backfilling will be based on total concentrations of oil and grease less than 500 mg/kg or TCLP results less than 200 $\mu\text{g/l}$. The locations of these additional samples are identified on attached Plate 1.
- Installation and monitoring of two monitoring wells at the site; one well upgradient of the excavation and one well downgradient of the excavation. For selection of well locations, it will be assumed that the ground water flow direction at the site is the same as that exhibited at the nearby Industrial Asphalt site. Wells will be placed approximately 100 feet (horizontal distance) from the center of the excavation. The proposed locations of the two wells are shown on Plate 1; documentation of the historical ground water flow direction and gradient at the Industrial Asphalt site is included in Appendix A.

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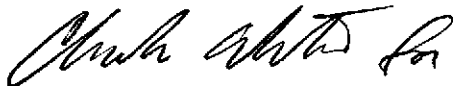
This letter documents our understanding of the directives of Alameda County on the basis of our recent verbal communications and on verbal rationale provided by you. CalMat appreciates your cooperation in establishing criteria for remediation and closure of the subject site. CalMat intends to initiate this work on October 1, 1993. If you have any questions or comments regarding the scope of the work documented in this letter, please contact us as soon as possible. If we do not hear from you prior to September 30, 1993 we will proceed as outlined.

Sincerely,

KLEINFELDER, INC.



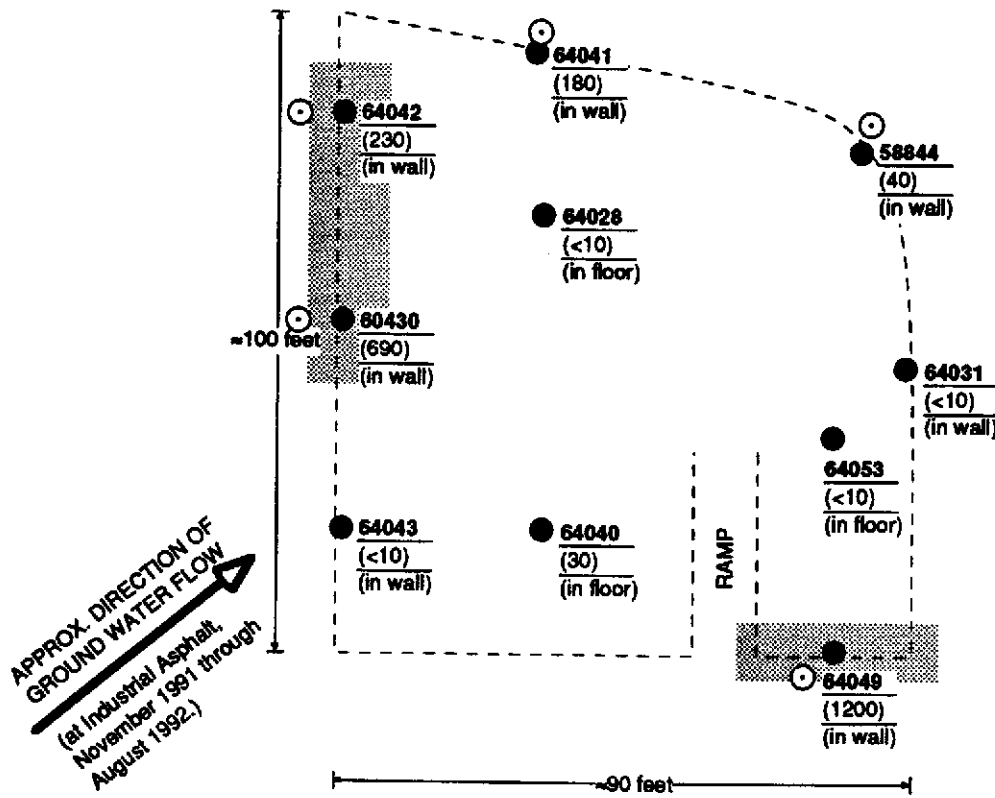
Matthew L. Bromley
Geologist/Project Manager



John E. Romie, R.G.
Senior Project Manager

PLATES

⊕ MW-1
(located approx. 100 feet
from center of excavation)



⊕ MW-2
(located approx. 100 feet
from center of excavation)

LEGEND

- PREVIOUS EXCAVATION SAMPLE
- PROPOSED EXCAVATION WALL SOIL SAMPLE
- ⊕ PROPOSED GROUND WATER MONITORING WELL

64049 SAMPLE NUMBER
(1200) OIL AND GREASE CONCENTRATION (ppm)
(in wall) SAMPLE LOCATION

▨ PROPOSED ADDITIONAL EXCAVATION

NOTES:

1. All locations are approximate.
2. Concentrations are in mg/kg, parts per million (ppm).
3. All samples were collected July 1, 1993, except for sample 58844 which was collected on June 17, 1993.

NOT TO SCALE

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EXCAVATION SAMPLING RESULTS

PLATE

CAL MAT COMPANY
PLEASANTON, CALIFORNIA

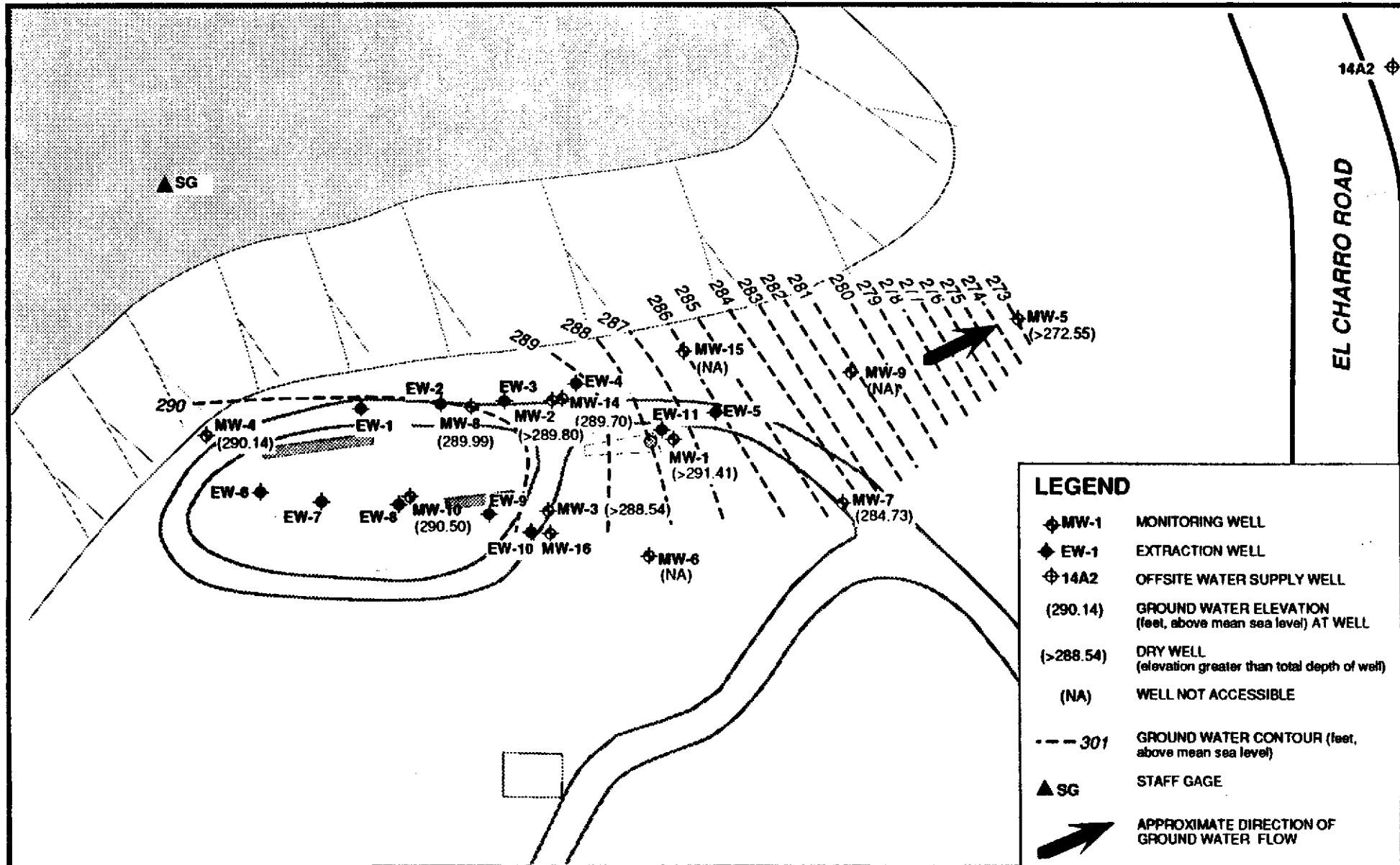
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DRAFTED BY: L. Sue DATE: 9-10-93

CHECKED BY: J. Romie DATE: 9-14-93

PROJECT NUMBER 10-2300-23

APPENDIX A



0 150
Approximate Scale (feet)



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**GROUND WATER SURFACE CONTOUR
MAP — AUGUST 1992**

PLATE

**INDUSTRIAL ASPHALT
PLEASANTON, CALIFORNIA**

A-1

BASE MAP SOURCE:
Wells surveyed by Associated Professions Inc. and Kleinfelder Inc.
Site details from 1987 photo (No. HAP-753), Pacific Aerial Surveys.

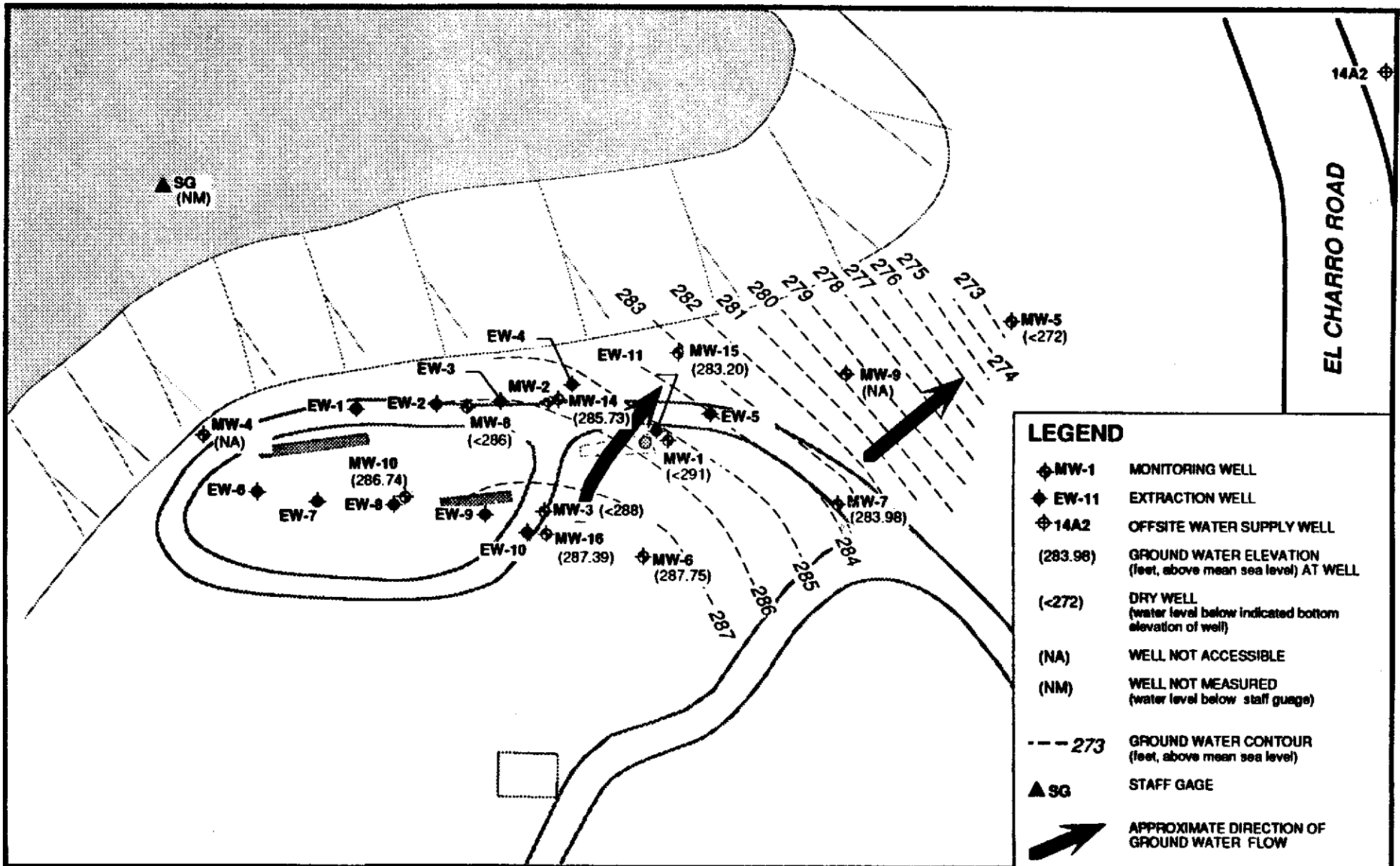
DRAFTED BY: L. Sue

DATE: 10-21-92

CHECKED BY: D. Behrens

DATE: 10-21-92

PROJECT NO. 10-1682-03



LEGEND	
◆ MW-1	MONITORING WELL
◆ EW-11	EXTRACTION WELL
◆ 14A2	OFFSITE WATER SUPPLY WELL
(283.98)	GROUND WATER ELEVATION (feet, above mean sea level) AT WELL
(<272)	DRY WELL (water level below indicated bottom elevation of well)
(NA)	WELL NOT ACCESSIBLE
(NM)	WELL NOT MEASURED (water level below staff gauge)
- - - 273	GROUND WATER CONTOUR (feet, above mean sea level)
▲ SG	STAFF GAGE
➔	APPROXIMATE DIRECTION OF GROUND WATER FLOW



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**GROUND WATER SURFACE CONTOUR
MAP — MAY 1992**

PLATE

**INDUSTRIAL ASPHALT
PLEASANTON, CALIFORNIA**

A-2

BASE MAP SOURCE:
Wells surveyed by Associated Professions Inc. and Kleinfelder Inc.
Site details from 1987 photo (No. HAP-753), Pacific Aerial Surveys.

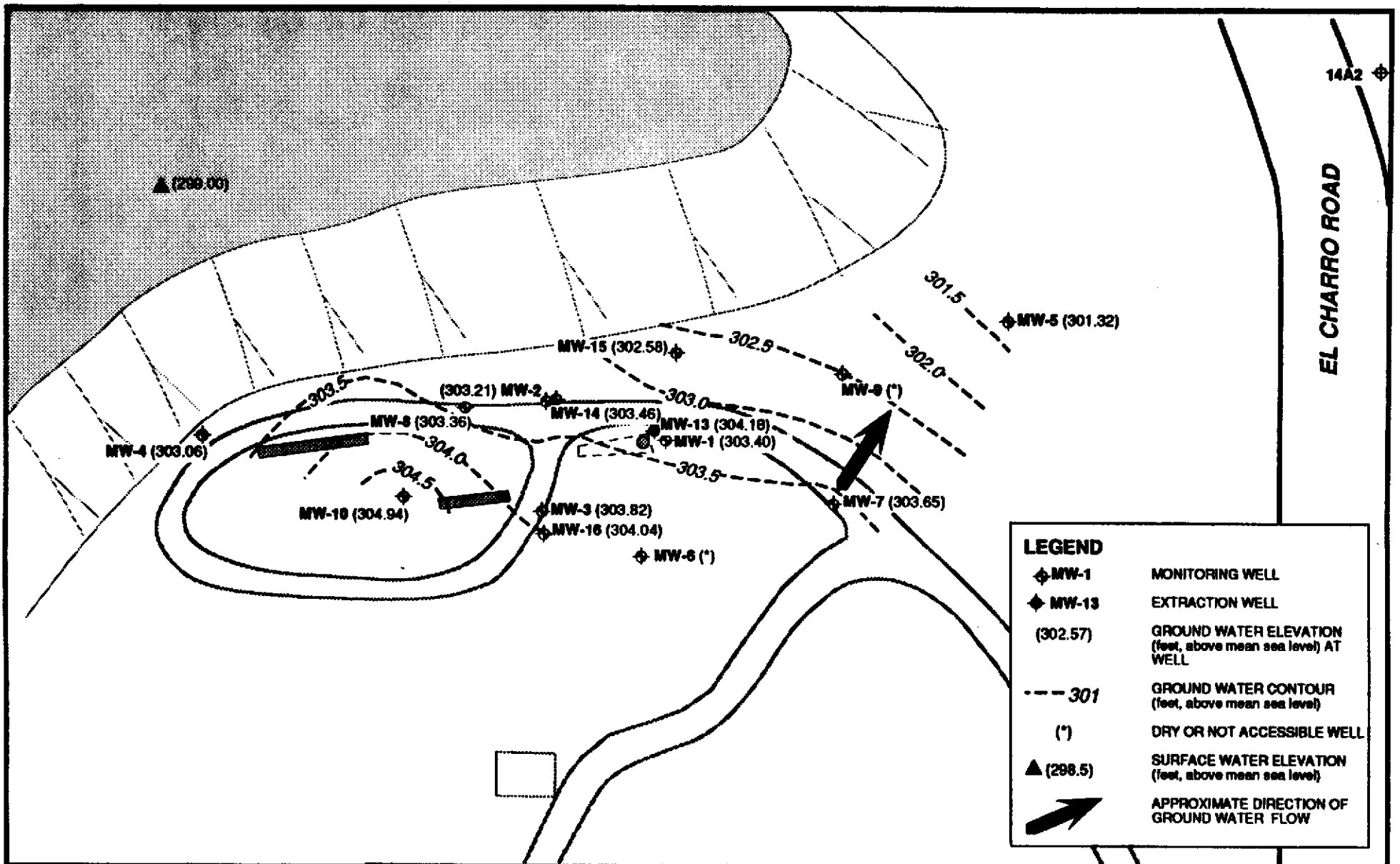
DRAFTED BY: L. Sue

DATE: 12-16-92

CHECKED BY: D. Behrens


DATE: 12-21-92


PROJECT NO. 10-1682-03




LEGEND

- ◆ MW-1 MONITORING WELL
- ◆ MW-13 EXTRACTION WELL
- (302.57) GROUND WATER ELEVATION (feet, above mean sea level) AT WELL
- 301 GROUND WATER CONTOUR (feet, above mean sea level)
- (*) DRY OR NOT ACCESSIBLE WELL
- ▲ (298.5) SURFACE WATER ELEVATION (feet, above mean sea level)
- ➔ APPROXIMATE DIRECTION OF GROUND WATER FLOW


 Approximate Scale (feet)



BASE MAP SOURCE:
 Wells surveyed by Associated Professions Inc. and Kleinfelder Inc.
 Site details from 1987 photo (No. HAP-753), Pacific Aerial Surveys.


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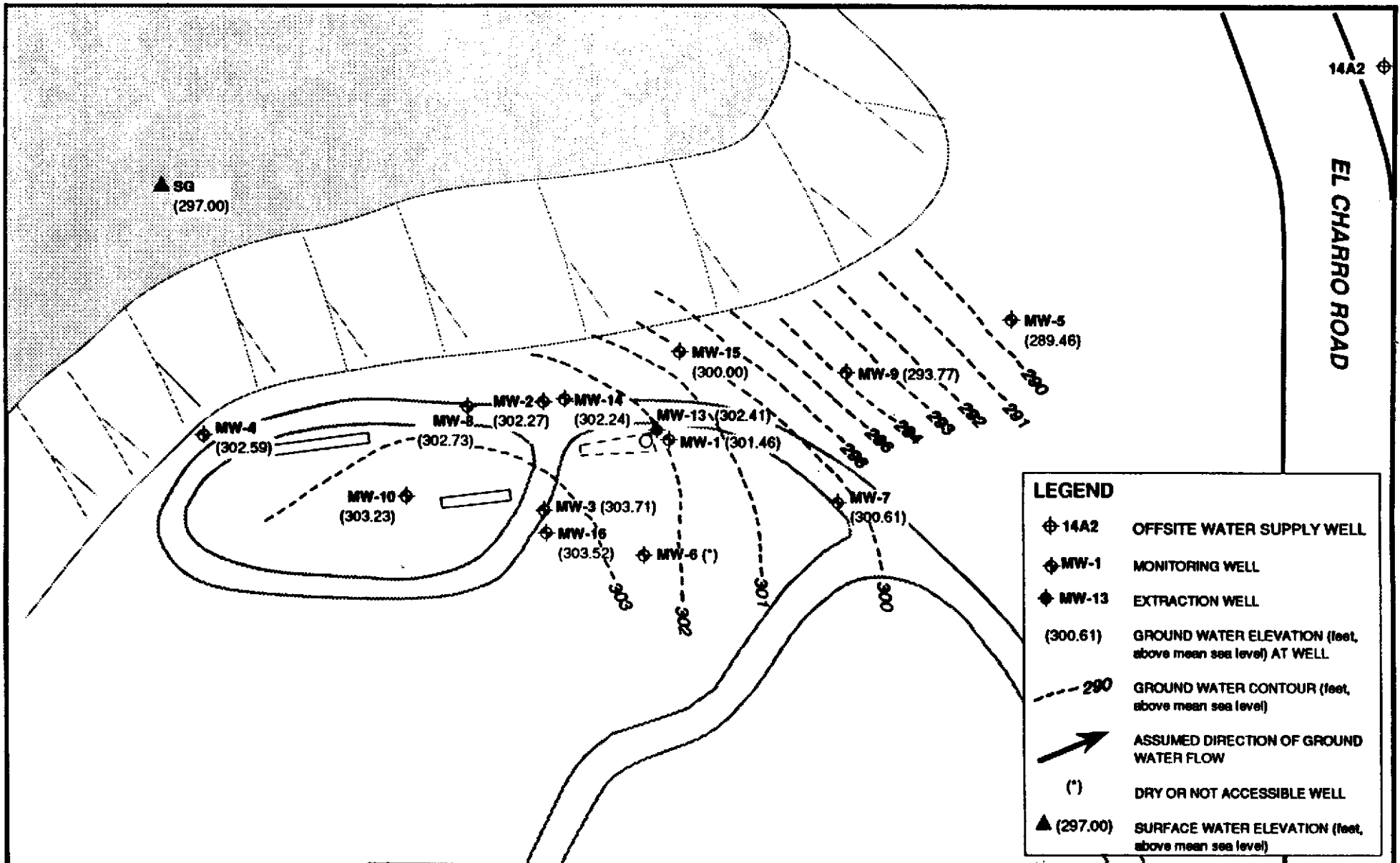
DRAFTED BY: L. Sue DATE: 4-16-92
 CHECKED BY: D. Behrens DATE: 5-5-92

GROUND WATER SURFACE CONTOUR
MAP — MARCH 1992

INDUSTRIAL ASPHALT
PLEASANTON, CALIFORNIA

PROJECT NO. 10-1682-03

PLATE
A-3



LEGEND

- ⊕ 14A2 OFFSITE WATER SUPPLY WELL
- ⊕ MW-1 MONITORING WELL
- ⊕ MW-13 EXTRACTION WELL
- (300.61) GROUND WATER ELEVATION (feet, above mean sea level) AT WELL
- - - 290 GROUND WATER CONTOUR (feet, above mean sea level)
- ➔ ASSUMED DIRECTION OF GROUND WATER FLOW
- (*) DRY OR NOT ACCESSIBLE WELL
- ▲ (297.00) SURFACE WATER ELEVATION (feet, above mean sea level)



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**GROUND WATER SURFACE GRADIENT
MAP (NOVEMBER 1991)**

PLATE

**INDUSTRIAL ASPHALT
PLEASANTON, CALIFORNIA**

A-4

BASE MAP SOURCE:
Wells surveyed by Associated Professions Inc. and Kleinfelder, Inc.
Site details from 1987 photo (No. HAP-753), Pacific Aerial Surveys.

DRAFTED BY: L. Sue **DATE:** 12-12-91

CHECKED BY: K. Jesionek **DATE:** 12-12-91

PROJECT NO. 10-1682-03