



KAPREALIAN ENGINEERING, INC.

Consulting Engineers
P. O. BOX 913
BENICIA, CA 94510
(415) 676-9100 (707) 746-6915

KEI-P89-0301.P1
March 27, 1989

Proposal
to
UNOCAL CORPORATION
for
Unocal Service Station #6277
at
15803 East 14th Street
San Leandro, California

Submitted By:

A handwritten signature in cursive script, appearing to read 'Mardo Kaprealian', is written over a horizontal line.

Mardo Kaprealian
President

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2.6 Preparation and submission of a technical report within 45 days of completion of the soil and water sampling. The report will document the field work performed, chemical analyses of soil/ground water, and offer discussions and recommendations.

3.0 SCHEDULING

KEI is prepared to start the work as soon as this proposal is accepted by the client.

1.0 INTRODUCTION

In March, 1989, Kaprealian Engineering, Inc. (KEI) was hired to obtain soil samples from beneath two 10,000 gallon fuel storage tanks and a waste oil tank during replacement of the existing tanks. Ground water was encountered in the pit preventing sampling beneath the tanks. The sidewall samples were taken at approximately one foot above the water table. The soil sample from beneath the waste oil tank was taken at a depth of ten feet. The results of the soil analyses for total petroleum hydrocarbon (TPH) as gasoline ranged from 24 to 3,500 ppm. The sample from beneath the waste oil tank showed 280 ppm total oil and grease (TOG). Since the results of the laboratory analyses exceed the level set by the Regional Water Quality Control Board (RWQCB), additional investigation is necessary.

2.0 SCOPE OF WORK

Per our recommendations described in KEI's report KEI-P89-0301.R2 dated March 27, 1989, additional investigation is necessary to comply with the State and Local Regulatory Agency regulations. Therefore, per the RWQCB guidelines, KEI proposes to perform the work as outlined below:

- 2.1 Coordination with regulatory agencies.
- 2.2 Installation and construction of four monitoring wells as shown on the attached Site Plan.
- 2.3 Collection of soil samples during the well construction. Soil samples will be collected at five foot intervals starting at a depth of five feet. Soil sampling will continue until the first water table is encountered. Selected soil samples will be analyzed for TPH as gasoline and benzene, toluene, xylenes and ethylbenzene (BTX&E).
- 2.4 The monitoring wells will be observed for free product and sheen. Water samples will be taken from all monitoring wells and analyzed for TPH as gasoline and BTX&E per the RWQCB guidelines. In addition, water samples collected from MW-2 will be analyzed for TPH as diesel, TOG, and EPA method 601 constituents. All analyses will be performed by a state certified laboratory.
- 2.5 Evaluation of results of the sample analyses as to the current and potential impact on the ground water.



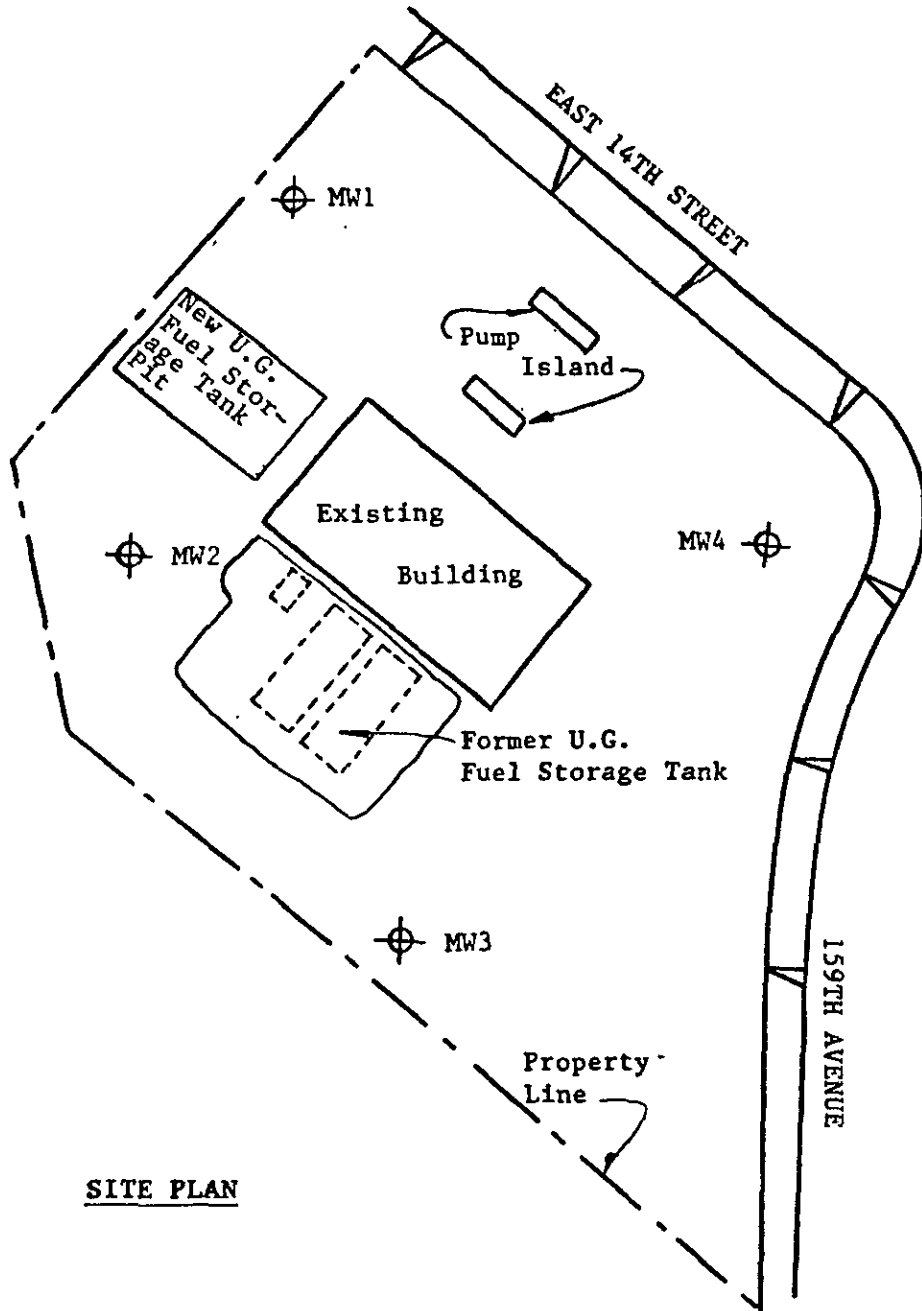
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SITE PLAN

 Monitoring Well



Unocal Service Station #6277
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