Clayton Environmental Consultants, Inc.

P.O. Box 9019 • 1252 Quarry Lane • Pleasanton, CA 94566 • (415) 426-2600

November 10, 1989

Clayton Project No: 26389.00

Mr. Gil Wistar
Alameda County Department of Environmental Health
Hazardous Material Program
80 Swan Way, Room 200
Oakland, CA 94621

Dear Mr. Wistar:

Clayton is pleased to submit the work plan for Valley Nissan/Volvo, 6015 Scarlett Court in Dublin, California. Clayton will commence work upon written confirmation of this work plan.

If you have any questions or comments regarding this work plan, please contact me at (415) 426-2616.

Sincerely,

Frederick G. Moss

Frederick G. Moss, P.E.
Supervisor, Remediation Group

FGM/mrr
Enclosure

cc: Lester Feldman (RWQCB)
Ron Imperiale (Valley Nissan/Volvo)
John Frederickson (Alameda County District Attorney)

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Work Plan for Additional Investigation at Valley Nissan/Volvo 6015 Scarlett Court Dublin, California 94568

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at
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1.0 INTRODUCTION

Clayton Environmental Consultants, Inc., was retained by Valley Nissan to conduct additional work at 6015 Scarlett Court in Dublin, California, to determine the extent to which waste oil has impacted the shallow soil and groundwater. This investigation was performed to comply with county and Regional Water Quality Control Board (RWQCB) guidelines for unauthorized release cases (Figure 1).

Our review of soil sampling results conducted by L. W. Environmental Services in its report dated July, 1988, indicated the possible presence of diesel fuel and waste oil in the soil and groundwater at or around the excavation site.

2.0 SCOPE OF WORK

Clayton will summarize and evaluate the work performed to date related to soil sampling and removal of waste oil tanks. Further work will be performed to assess the conditions of the shallow soils and groundwater beneath the site.

2.1 PREVIOUS WORK REVIEW

Clayton will evaluate and summarize the work performed by L.W. Environmental on the site to date. It is our understanding that waste oil tanks and soil containing waste oil was removed from the site previously.

2.2 SOIL BOREHOLE INSTALLATION

Clayton proposes to drill up to three boreholes and install at least one monitoring well to investigate the extent of the soil/groundwater contamination (Figure 2). The proposed location of these boreholes will be along the westerly side of the Valley Nissan service area, near the location of the two aboveground waste oil tanks. During the drilling of each borehole, the soil

characteristics will be logged in the field by a Clayton geologist using the Unified Soil Classification System. Distinguishing features such as color, odor, and relative soil moisture content will also be noted. Drilling activities will be conducted under the supervision of a civil engineer registered in the State of California and conducted in accordance with the (RWQCB) San Francisco Bay Region and the Alameda County Health Care Services Agency guidelines.

Soil samples will be collected at 2- and 7-foot depths using a 2.5 inch split barrel sampler. During drilling, to aid in locating the contamination, Clayton will screen the soil cuttings using (1) a PID meter to detect volatile compounds and (2) sight and smell to detect nonvolatile compounds. If contamination is encountered between the specified sampling interval, Clayton will collect additional samples at that point until groundwater is encountered. No soil samples will be collected below the saturated zone for laboratory analysis, and the boreholes will be terminated when groundwater is encountered.

The soil samples will be collected in precleaned brass tubes for the purpose of lithologic logging. If field-noticeable contaminated soils are encountered, the brass tubes will be sealed with aluminum foil and plastic caps, taped for air tightness, and immediately placed in an iced cooler for shipment to Clayton's state certified laboratory in Pleasanton, California, for analysis. legal Chain-of-Custody procedures will be followed for handling of soil samples.

The soil cuttings and sampling spoils generated from the drilling process will be placed into individually labeled DOT-approved 55-gallon drums. Laboratory analysis may be required to determine the appropriate disposal method for each drum. The drums containing the soil will be closed and left at the site.

2.3 MONITORING WELL CONSTRUCTION

One of the boreholes will be extended deeper and converted into a monitoring well using clean, 4-inch-diameter PVC casing with threaded joints and slotted screens. This well will extend at least 10 feet into the first saturated zone, but will not extend through any clay layers greater than 5 feet thick that are below the shallow water table. The location of the well was selected based upon groundwater contour maps prepared by Zone 7 of Alameda County Flood Control. This well location shown (Figure 2) is downgradient of the former underground tanks.

The well will be constructed to an approximate total depth of 15 feet. The well will be secured with a locking cap, set in a concrete meter box nearly flush with the existing pavement (Figure 3). The well will be developed by pumping and surging until the turbidity and specific conductance are reasonably stable. The water generated from the well development process will be placed into properly labeled DOT-approved 55-gallon drums. The drums will be stored onsite until laboratory analysis is obtained and a proper disposal method can be determined.

The well sampling procedures will follow RWQCB guidelines. The well will be purged of at least five well casing volumes. Field pH, specific conductance, and temperature measurements of the water will be made at the time of purging. After the specific conductance has stabilized, indicating that the water is representative of the aquifer, sampling will begin. The water generated from the purging and sampling process will be placed into properly labeled 55-gallon drums, and will be stored onsite, awaiting laboratory results to determine the proper disposal method. To the extent possible, we will use the same drums as used for the well development water.

Water samples from the well will be collected using clean teflon bailers. Water will be collected in clean laboratory supplied glass containers and placed immediately into an iced cooler for transport to Clayton's laboratory for analysis. One trip blank will be collected in accordance with Clayton's quality assurance/quality control (QA/QC) program.

2.4 LABORATORY ANALYSIS

Approximately one water and six soil samples will be analyzed at Clayton's laboratory using Environmental Protection Agency (EPA) Methods 8010, purgeable halogenated volatile organics; Method 8020, aromatic volatile organics; Method 8015 for petroleum hydrocarbons; Standard Method 503E for oil and grease.

2.5 REPORT PREPARATION AND RECOMMENDATIONS

Upon completion of the laboratory analysis, Clayton will prepare a report summarizing the onsite investigation. Groundwater flow direction will be estimated based upon regional topography and published groundwater contour maps. The report will include a discussion of the site investigation techniques, soil and groundwater sampling, and analytical results. If soil sample results indicate that the subsurface conditions cannot be definitively quantified by these sample locations, further investigations involving the installation of more groundwater monitoring wells may be recommended.

3.0 QUARTERLY REPORT

Clayton will sample and analyze the monitoring well according to EPA and RWQCB guidelines every 3 months unless otherwise upon by RWQCB and Alameda County Health Care Services Agency. When two consecutive sampling events indicate that nondetectable levels of petroleum hydrocarbons are present in the groundwater, a request to suspend sampling will be submitted.

Clayton will also provide Valley Nissan with a letter report describing the results of the sampling that can be presented to the Alameda County Health Care Services Agency.

This report prepared by: Dariush Dastmalchi

Dariush Dastmalchi
Geologist

This report reviewed by: Frederick G. Moss

Frederick G. Moss, P.E.
Supervisor, Remediation Group

FIGURES

STICK POSTAGE STAMPS TO ARTICLE TO COVER FIRST CLASS POSTAGE, CERTIFIED MAIL FEE, AND CHARGES FOR ANY SELECTED OPTIONAL SERVICES. (see front)

1. If you want this receipt postmarked, stick the gummed stub to the right of the return address leaving the receipt attached and present the article at a post office service window or hand it to your rural carrier (no extra charge)

2. If you do not want this receipt postmarked, stick the gummed stub to the right of the return address of the article, date, detach and retain the receipt, and mail the article.

3. If you want a return receipt, write the certified mail number and your name and address on a retur- receipt card, Form 3811, and attach it to the front of the article by means of the gummed ends if space permits. Otherwise, affix to back of article. Endorse front of article **RETURN RECEIPT REQUESTED** adjacent to the number.

4. If you want delivery restricted to the addressee, or to an authorized agent of the addressee, endorse **RESTRICTED DELIVERY** on the front of the article.

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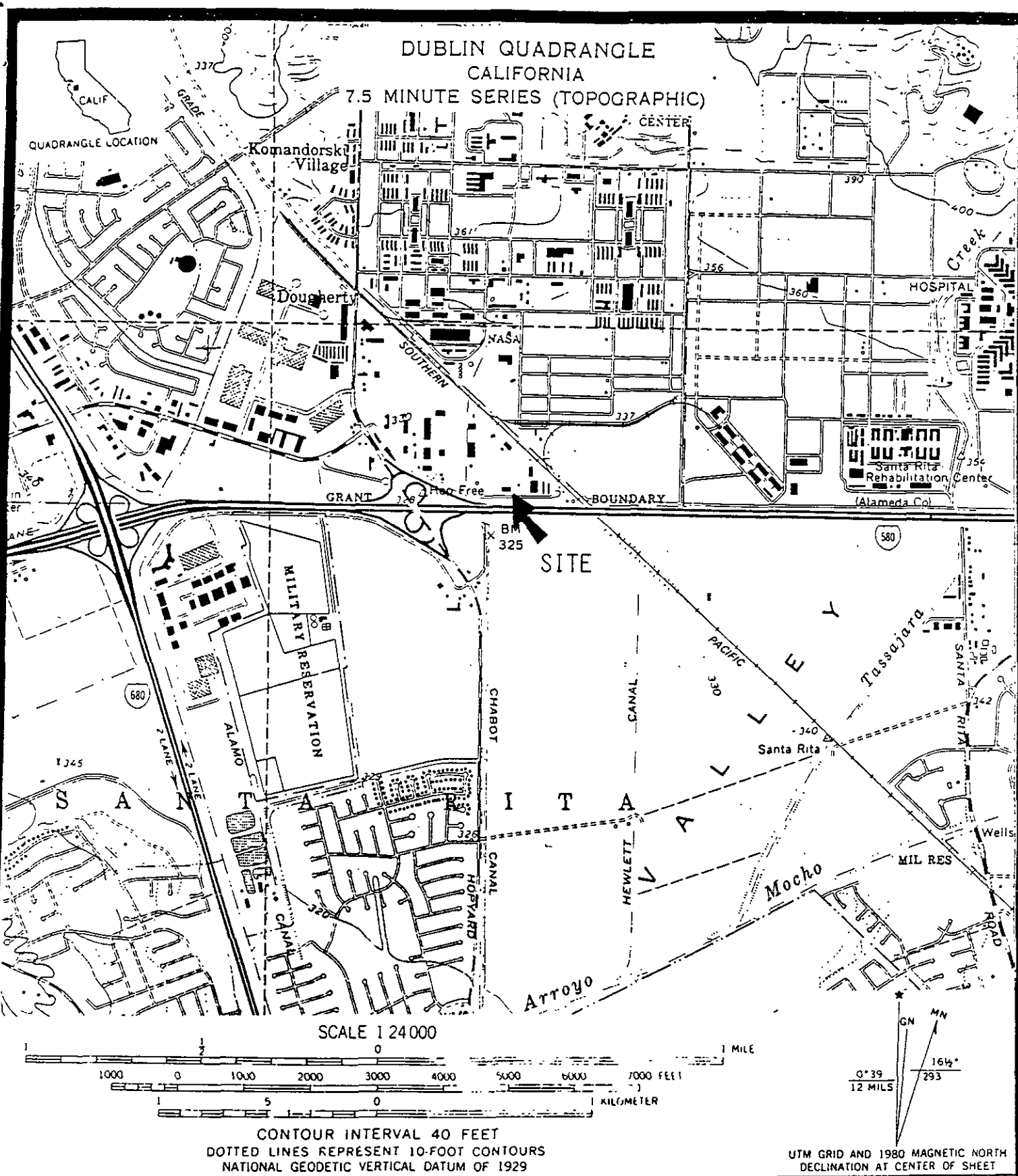

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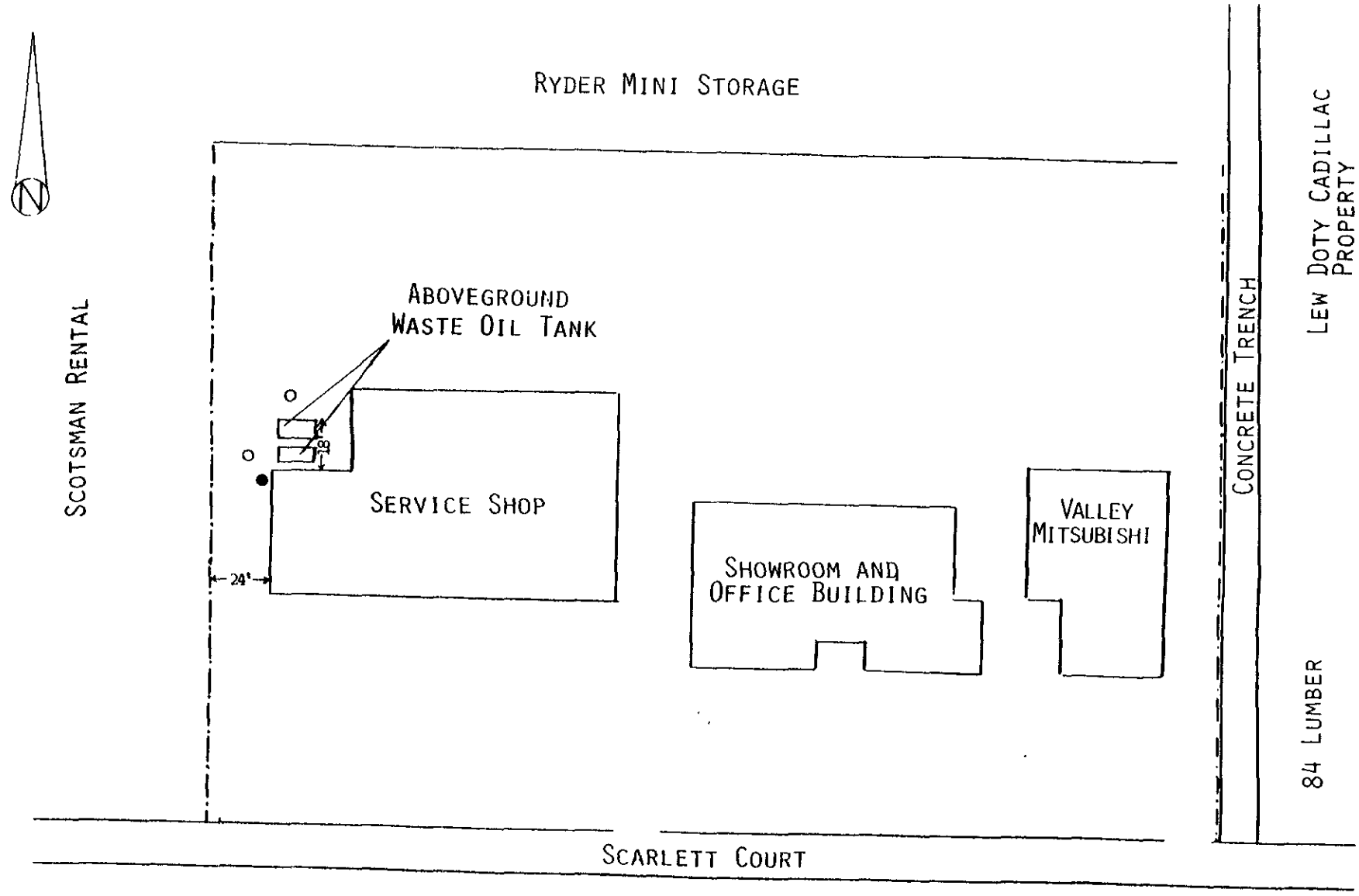
Figure 1

SITE LOCATION MAP
Valley Nissan/Volvo
Dublin, California



● PROPOSED MONITORING WELL
○ PROPOSED BOREHOLE LOCATION

Map not to Scale

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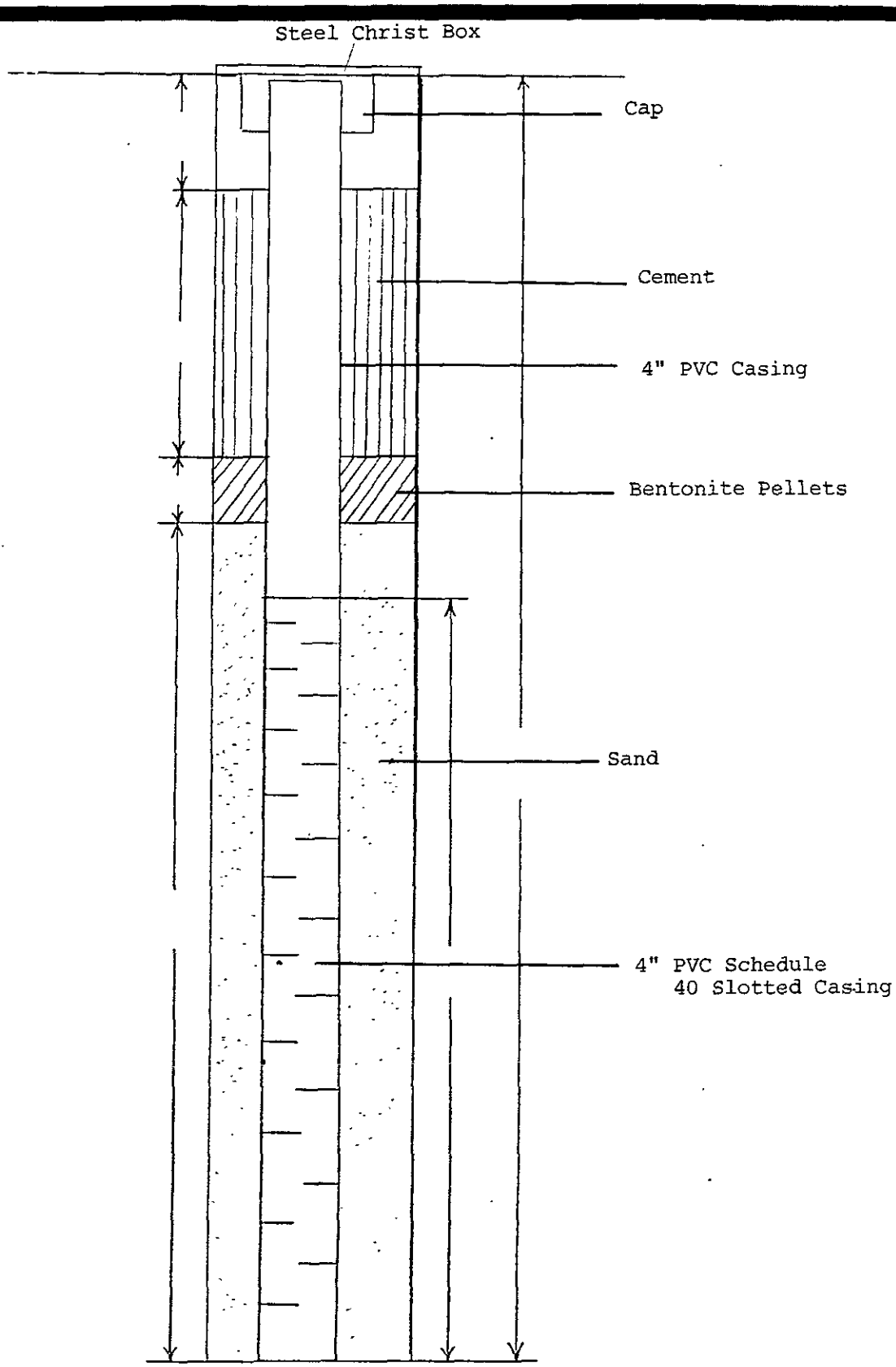
SITE PLAN AND PROPOSED MONITORING WELL AND BOREHOLE LOCATIONS
Valley Nissan/Volvo
Dublin, California

Figure 2



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