Clayton Environmental Consultants, Inc.

1252 Quarry Lane • Pleasanton, California 94566 • (415) 426-2600

Additional Soil and Groundwater Investigation
at
Valley Nissan/Volvo
6015 Scarlett Court
Dublin, California

Clayton Project No. 26389.00
January 10, 1990

Executive Summary

Clayton Environmental Consultants, Inc., was retained by Valley Nissan to drill three boreholes, install one monitoring well, and sample and analyze soil and groundwater at 6015 Scarlett Court in Dublin, California.

Analysis of groundwater samples taken from the monitoring well contained the following constituents:

- Cis 1,2-dichloroethene
- 1,1-dichloroethane

However, the concentration of these chemicals in the groundwater is well below the action levels set by the Department of Health Services, and only slightly above the analytical detection limits.

All compounds tested for in the soil samples collected by Clayton were below analytical detection limits.

Clayton concludes that residual soil contamination remaining at the site after removal of the waste oil tanks is not significant. Due to the low permeability of the dense native clay soils at the site, the shallow groundwater beneath the site has not been impacted by these former tanks.

Clayton recommends that an additional groundwater sample be collected from the monitoring well and analyzed for purgeable halocarbons (EPA Method 601) and for oil and grease hydrocarbons (Standard Method 503E).

CONTENTS

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1.0 INTRODUCTION

Clayton Environmental Consultants, Inc., was retained by Valley Nissan to install four boreholes (including a monitoring well in one of the holes) for the purpose of sampling and analysis of soil and groundwater at 6015 Scarlett Court in Dublin, California (Figure 1). A previous report prepared by L.W. Environmental Services (L.W.), dated July, 1988 (Appendix A), indicated the possible presence of diesel fuel and waste oil in the soil and groundwater at or around the excavation site.

Clayton commenced field work on December 4, 1989, following approval of the work plan by Alameda County Department of Environmental Health (ACDEH). The permit to install the monitoring well was issued by Zone 7 of the Alameda County Flood Control and Water Conservation District (Zone 7).

2.0 BACKGROUND

Valley Nissan retained Clayton to review the work performed by L.W. to date, and to prepare a work plan addressing the items brought up in the letter to Valley Nissan from ACDEH dated September 21, 1989. Clayton submitted the work plan to ACDEH on November 10, 1989 (Appendix B), and the plan was accepted by ACDEH on November 21, 1989. This work plan included a recommendation for soil and groundwater sampling.

The groundwater gradient was estimated based on the Zone 7 map (Figure 2). The location of monitoring well (MW-1) was selected to be downgradient of the former tanks as much as practicable. During drilling, soil samples were collected at approximate depths of 2.5 and 7.5 feet. The groundwater sample collected from MW-1 and the soil samples collected were

analyzed for chlorinated and volatile organic compounds (EPA Method 601/602), total petroleum hydrocarbons (gasoline and diesel), and total oil and grease hydrocarbons (Standard Method 503E).

2.1 PREVIOUS WORK REVIEW

In July, 1988, while under contract with Valley Nissan to conduct a soil investigation, L.W. drilled 11 boreholes. Soil samples collected from Borings 1 and 2 were collected at an approximate 10-foot depth, with all other boring samples collected at an approximate 6-foot depth below the ground surface. The samples were analyzed by Precision Analytical (P.A.) for total petroleum hydrocarbons, total oil and grease (Standard Method 503D), priority metals, sulfides and phenols. Table 1 lists oil and grease content, the only organic compound found over detection limits.

On July 22, 1988 L.W. submitted its findings in a report titled "REPORT OF SOIL INVESTIGATION AT VALLEY NISSAN 6015 Scarlett Court Dublin, CA," and recommended the removal of two underground waste oil tanks.

On August 5, 1988 L.W. proceeded to remove the underground waste oil tanks and collected seven soil samples for laboratory analyses. The samples were analyzed by P.A. for total petroleum hydrocarbons and total oil and grease. Table 2 contains a summary of the results of these analyses. During tank removal procedures about 18 cubic yards of contaminated soil were excavated and shipped under manifest to Casmalia Resources disposal facility. Details of this procedure are explained in the L.W. document found in Appendix A.

On August 11 and 12, 1989, an additional 56 cubic yards of soil was excavated and transported to Casmalia Resources. A total of fourteen soil samples were collected from the excavation, twelve of which were analyzed for total petroleum hydrocarbons and total oil and grease. According to the documents provided to Clayton, no additional sampling or excavation was performed after August 12, 1989. The laboratory results provided to L.W. by P.A. on August 22, 1988 indicate that there was some soil remaining in the pit which exceeded 100 mg/kg (Table 3).

3.0 FIELD PROCEDURES

Clayton commenced field activities related to the installation and sampling of a monitoring well (MW-1) and three boreholes (B-1, B-2, and B-3) at the site on December 4, 1989 (Figures 3 and 4). The following subsections address the completion of each of the tasks outlined in Clayton's work plan dated November 10, 1989. A copy of the Zone 7, Alameda County Flood Control District well permit is provided in Appendix C.

3.1 SOIL BOREHOLE INSTALLATION

Clayton supervised the drilling of four boreholes, one of which was converted to a monitoring well. Aqua Science Engineering, Inc., of San Ramon provided borehole and well installation services under subcontract to Clayton. MW-1 is located along the western side of the facility (Figure 1). B-1 is located approximately 9 feet north of the new aboveground gasoline tank along the north side of the building. Both B-2 and B-3 are located about 12 feet east of the new aboveground waste oil tank.

??

The boreholes were drilled using a Mobile B-57 drilling rig. Before work commenced, the augers and soil sampler were steam cleaned. The boreholes were drilled to depths of 13, 8, 15, and 15 feet for B-1, B-2, B-3, and MW-1, respectively. Borehole B-2 was terminated early upon encountering sample refusals at depths of 2.5 and 8 feet. Appendix D presents the borehole lithological logs prepared while drilling was in progress.

Soil samples were collected in 2.5-inch diameter brass tubes, each measuring 6 inches long. Tubes and their plastic caps were precleaned with tri-sodium phosphate (TSP), triple-rinsed with tap water, then triple-rinsed with deionized water prior to use. The tube ends were covered with precut aluminum foil squares, capped with a plastic cap, sealed with electrical tape, labeled, and placed into a pre-cooled ice chest chilled to 4°C prior to shipment to Clayton's environmental laboratory. Upon delivery to the laboratory, a chain-of-custody form was completed listing analyses required. This form follows each set of analyses and is included in Appendix E.

To collect undisturbed soil samples, three brass tubes were placed in an 18-inch, split barrel Sprague and Hennwood sampler, which was attached to the drilling rod. The sampler and the rod were inserted through the hollow-stem auger until the current borehole depth was reached. Once the sampler and rod were in position, a 140 pound hammer positioned 30 inches above the sampling equipment was allowed to free-fall onto the rod, advancing the sampling assembly to obtain undisturbed samples. This technique was used to drive the sampler 18 inches into undisturbed soil. The sampler was then pulled from the borehole, disassembled, and the three brass tubes were separated for visual inspection and labeling.

Waste drill cuttings were placed into Department of Transportation (DOT) approved drums for proper disposal at a later date. The drums which were labeled with the name of the site, address, well number, and the drum contents were left at the site.

Boreholes B-1, and B-3 were backfilled with soil cuttings to a depth of 7 foot and capped with concrete grout. Borehole B-2 was sealed to the surface with grout and no soil backfill because this hole was terminated at a depth of 7 feet.

3.2 MONITORING WELL CONSTRUCTION AND SAMPLING

When the fourth borehole had been drilled to the desired depth of 15 feet below ground surface, a 4-inch diameter PVC schedule 40 well casing and screen (0.010-inch) was installed into borehole. The location of this borehole (MW-1) is shown in Figure 5. All well casings, screens, and bottom plugs were precleaned prior to installation into the borehole. Sand was added into the annular space to 1 foot above the screened section of the casing. A 1-foot bentonite seal was placed above the sand pack by hydrating approximately 25 pounds of bentonite pellets with deionized water. A 4-foot neat cement seal was then placed over the bentonite plug.

MW-1 was developed to remove silt from the sand pack one week after installation. The purged water was stored on site in a DOT-approved drum pending laboratory analysis results. The water will be disposed of at an acceptable facility at a later date.

Water was purged from the monitoring well with a submersible electric pump and sampled with a Teflon™ bailer. Details of the purging are provided in Appendix E. The bailer was precleaned with a steam cleaner, washed in TSP, triple-rinsed in tap water, and triple-rinsed in deionized water. The clean bailer was stored in a clean PVC pipe with end cap prior to use.

Water samples were placed in appropriate containers provided by Clayton's environmental laboratory, labeled, and placed into an ice chest pre-cooled to 4°C for shipment to Clayton's laboratory. Upon delivery to the laboratory, a chain-of-custody form was completed listing analyses required. This form is included with laboratory data sheets in Appendix E.

4.0 LABORATORY RESULTS AND DATA ANALYSES

The results of the laboratory analyses were reviewed and compared to federal and state regulatory action levels. Results of the soil and groundwater analyses are presented in Appendix E. Soil sample results indicated none of the compounds tested are above detection limits. Groundwater sample results were compared to the California Department of Health Services state action levels as described in Marshack, 1988, and listed in Table 4.

4.1 GROUNDWATER SAMPLE ANALYSES

Groundwater samples collected on November 1, 1989, were analyzed using:

▪ EPA Method 601/3510	Purgeable halocarbons
▪ EPA Method 602	Purgeable aromatics
▪ EPA Method 8015/3510	Gasoline and diesel
▪ Standard Methods of Analysis of Water and Wastewater Method 503-E	Oil and grease hydrocarbons

missing

Table 4 lists parameters detected compared to the regulatory action levels. This table reports only those compounds identified above detection limits. All other compounds analyzed were below analytical detection limits, as listed in the laboratory reports provided in Appendix E.

4.2 SOIL SAMPLE ANALYSES

Soil boring samples were collected from an approximate depth of 7.5 feet and analyzed using:

EPA Method 8010	Purgeable halocarbons
EPA Method 8015	Total petroleum hydrocarbons (gasoline and diesel)
Standard Methods of Analysis of Water and Wastewater Method 503-E	Oil and grease hydrocarbons

Sample from borehole B-3 was also tested for

EPA Method 418.1	Total recoverable petroleum hydrocarbons

All samples analyzed had nondetectable levels for all parameters, as listed in laboratory reports in Appendix E.

Table 4 is missing

5.0 CONCLUSIONS

Based on the results of our investigations and the soil and groundwater analyses performed, we conclude the following:

- Chlorinated hydrocarbons, gasoline and diesel fuels were not detected in any soil samples collected from the boreholes installed by Clayton in the vicinity of the former tanks.
- Oil and grease compounds were not detected in groundwater or any of the soil samples tested by Clayton.
- Cis-1,2-dichloroethene (DCE) and 1,1-dichloroethane (DCA) were detected in groundwater from MW-1 but not in the soil samples analyzed. The concentrations of both compounds were well below California Department of Health Services action levels and only slightly above the analytical detection limits (Table 4).
- The results tabulated by previous consultants for soil samples collected at the excavation pit indicated that residual soil contained more than 100 mg/kg of oil and grease. Standard Method 503D was used to determine the total oil and grease for the samples obtained by L.W. on July, 1988. This method detects not only oil and grease hydrocarbons, but also other compounds, such as fatty acids and vegetable oils. Clayton could not determine if the same method was used by L.W. in subsequent soil sampling, and whether this test was specific enough to identify the compounds typically associated with waste oil.
- Because of the low permeability of the clay soil present at the site, it is evident that any residual chemicals associated with the former tanks have not impacted the shallow groundwater beneath the site.

6.0 RECOMMENDATIONS

Based on our investigations and laboratory results, we recommend that an ~~additional~~ groundwater sample be collected on a quarterly water sampling schedule. The sample should be ~~analyzed by~~ EPA Method 601 for ~~chlorinated hydrocarbons and~~ Standard Method 503E for ~~oil and grease hydrocarbons.~~ The results of this second sampling should be sufficient to document subsurface groundwater conditions in the immediate vicinity of the former tanks.

7.0 DISCLAIMER

The information and opinions rendered in this report are exclusively for your use and will not be distributed or published without your consent. The information in this report is given in response to your limited assignment and should be evaluated only in light of that assignment. We accept responsibility for the competent performance of our duties in executing the assignment and preparing this report in accordance with the normal standards of our profession but disclaim any responsibility for consequential damages.

Why not continue boreholes for TPH-D and BTEX?

8.0 REFERENCES

Marshack, Jon B., 1988. A compilation of Water Quality Goals. California Regional Water Quality Control Board. Central Valley Region.

This report prepared by:

Dariush Dastmalchi
Geologist

This report reviewed by:

Frederick G. Moss

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

TABLES

TABLE 1

Organic Compound Found in
Borehole Samples Taken in July, 1988

503 D

Sample ID#	Oil & Grease (Standard Method 5030)	LUFT Manual Guidelines
Boring 1-9'	15 mg/kg*	100 mg/kg
2-9'	145	100
3-5'	60	100
4-5'	120	100
5-5'	100	100
6-5'	120	100
7-5.5'	105	100
8-5.5'	205	100
9-5.5'	50	100
10-5.5'	80	100
11-5.5'	45	100

*mg/kg = Milligrams per kilogram

In the immediate vicinity of W.O. tanks.
Other borings are throughout property

TABLE 2

Laboratory Results for Soil Samples
Taken on August 5, 1988 and Reported on August 10, 1988

diesel

Sample ID#	Total Petroleum Hydrocarbons	Oil & Grease	LUFT Manual Guidelines
#1, Excavated Soil	1,100 mg/kg	340 mg/kg	100 mg/kg
#2, Excavated Soil	240,000	33,000	100
#3, Excavated Soil	44,000	22,000	100
#4, North Side Tank Excavation	3,200	59	100
#5, West Side Tank Excavation	130	5	100
#6, East Side Tank Excavation	400	150	100
#7, South Side Tank Excavation	150	120	100

after tank removal

INITIAL SOIL SAMPLES

TABLE 3

Analytical Results for Samples
Taken by L.W. on August 11 & 12, 1988 and
Reported by P.A on August 22, 1988

Sample ID#	Oil & Grease	LUFT Manual Guidelines
9007-01, East Wall NE Corner 4'	14.9 ppm*	100 ppm*
02, East Wall Corner 4'	221.9	100
03, East Wall SE Corner, 4'	74.0	100
04, Northeast Corner Bottom of Ditch 6'	224.7	100
05, North Wall NE Corner, 4'	79.7	100
06, East Wall NE Corner 6'	398.8	100
07, North Wall Center 6'	164.6	100
08, North Wall NE Corner 6'	427.0	100
01, Left Side of Wall in Pit	N/A*	100
02, Back Side of Wall in Pit	N/A	100
03, Right Side of Wall in Pit	895.0 mg/kg	100
04, Bottom of Pit	135.0 mg/kg	100
05, Ground from Pit Boring Removed	N/A	100
06, Ground from Pit Boring Removed	N/A	100

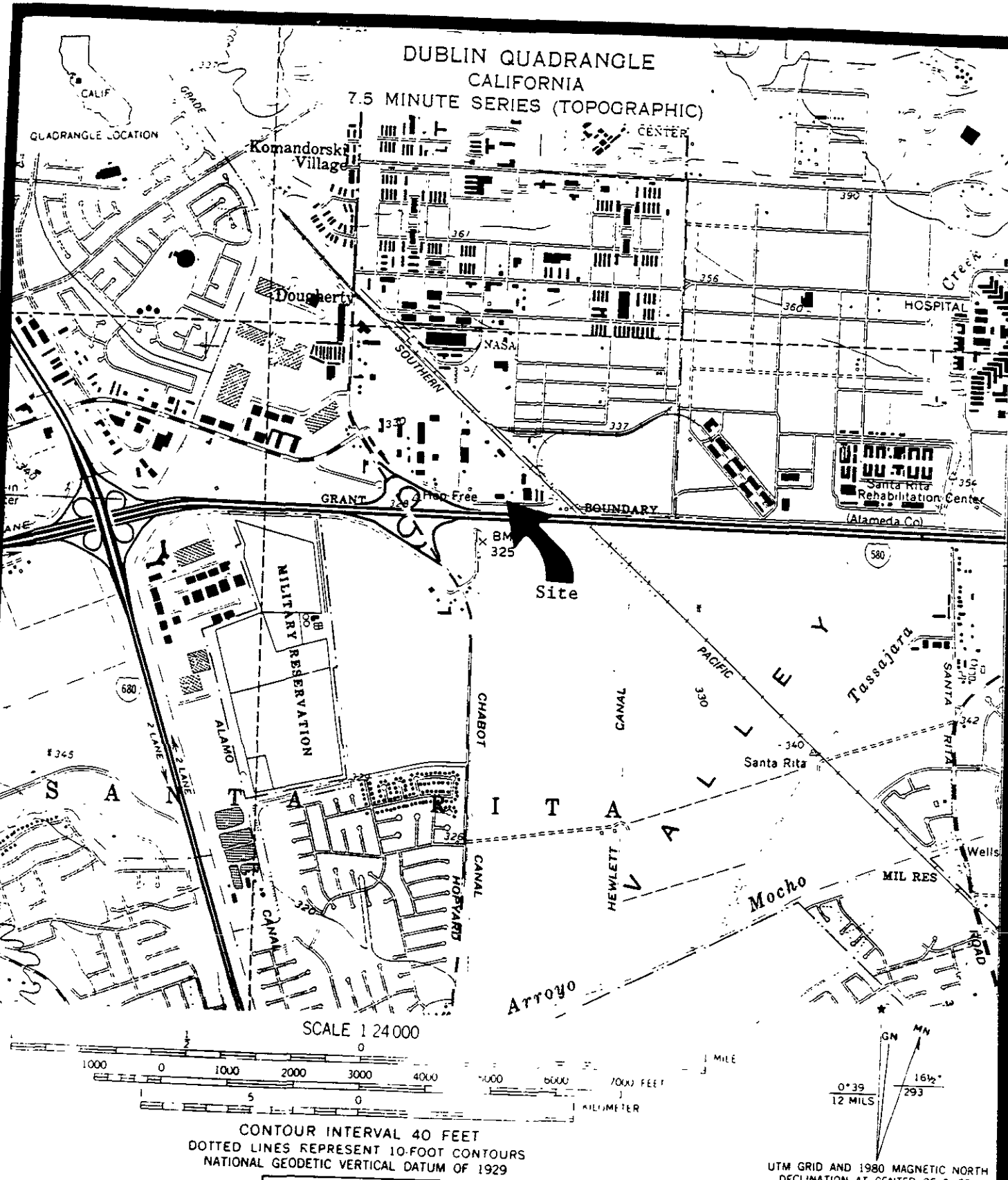
ppm = mg/kg = milligrams per kilogram
N/A = Not analyzed

TABLE 4

Groundwater Parameters Detected for
Samples Taken by Clayton on December 11, 1989

Method	Sample No.	Concentration	DHS Action Levels
EPA 601 for:			
Cis-1,2-dichloroethene	MW-1	0.4 ug/l*	16 ug/l
1,1-dichloroethane		0.5 ug/l	20 ug/l

*ug/l = microgram per liter
This table reports only those compounds identified above detection limits. All other samples analyzed showed nondetectable levels for all parameters as listed in laboratory reports provided in Appendix D.



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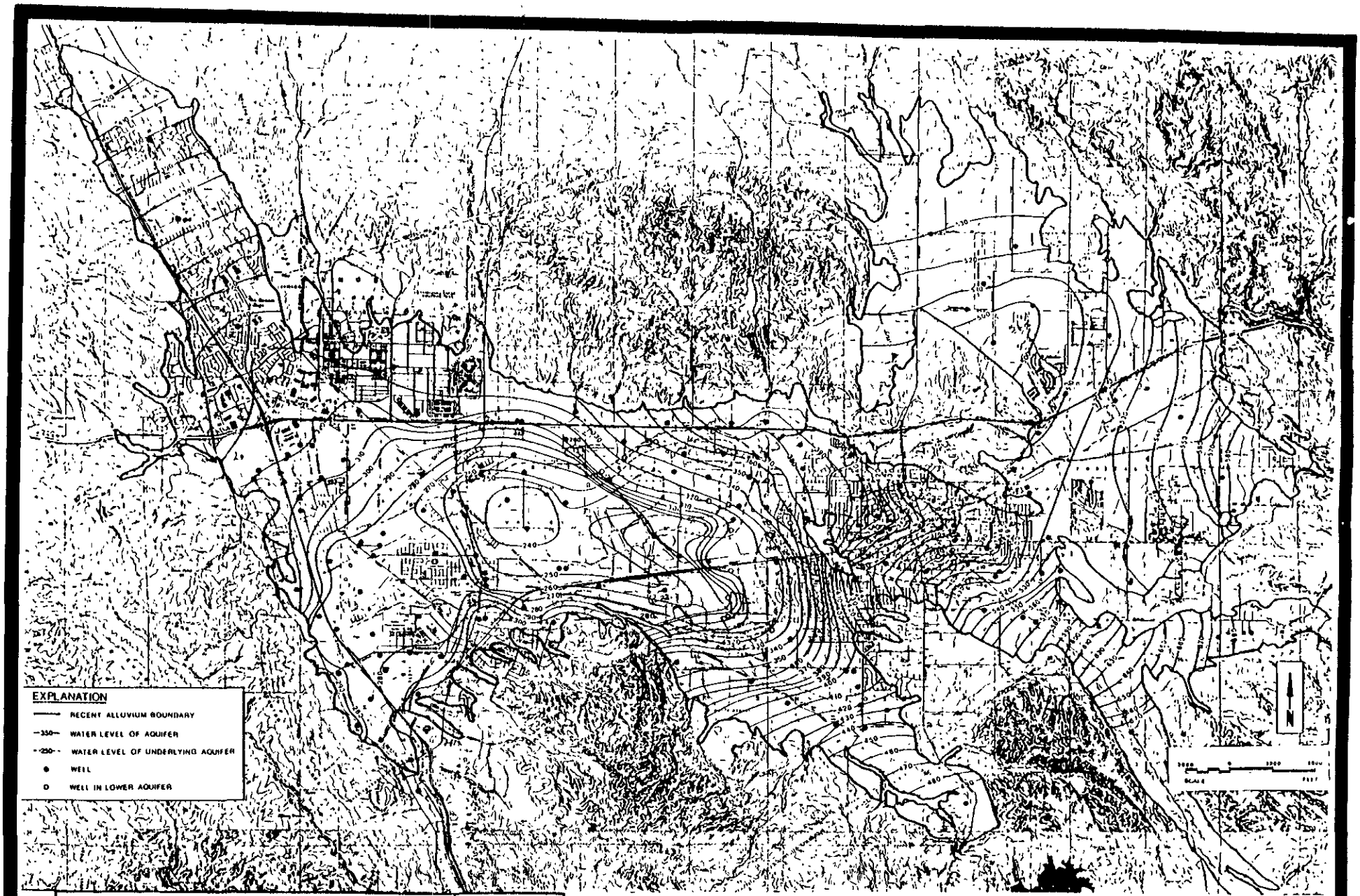
Site Location Map
Valley Nissan/Volvo
Dublin, California

Figure

1



WATER RESOURCES ENGINEERING
FALL 1988
WATER LEVEL CONTOURS

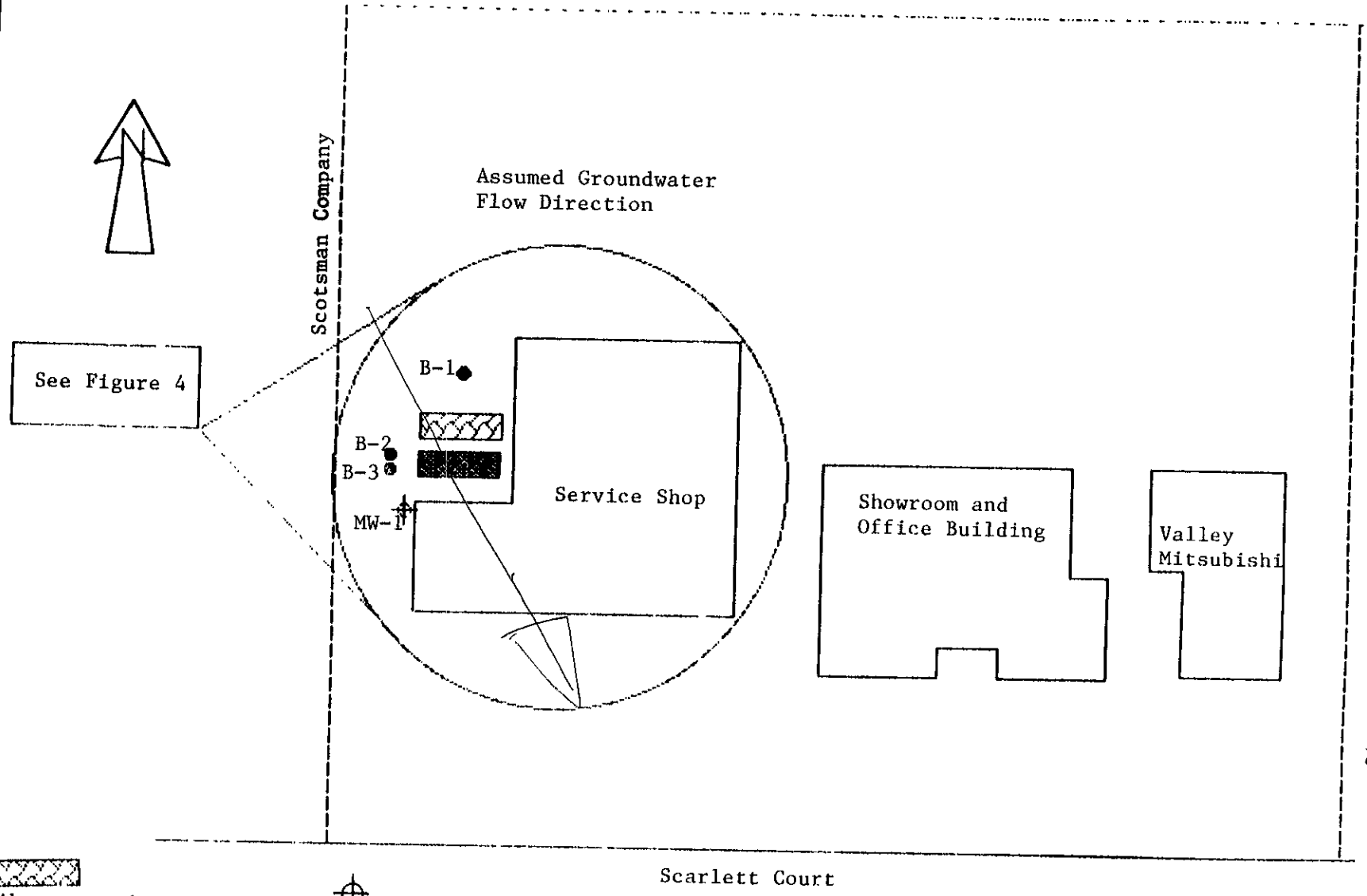
SCALE 1" = 3,000
CONTOUR INTERVAL = 10
DATE 16 MARCH 1989
FILE NO 8320

ZONE 7
ALAMEDA COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT

Clayton Environmental Consultants, Inc.

Zone 7
Water Level Contour
Alameda County, California

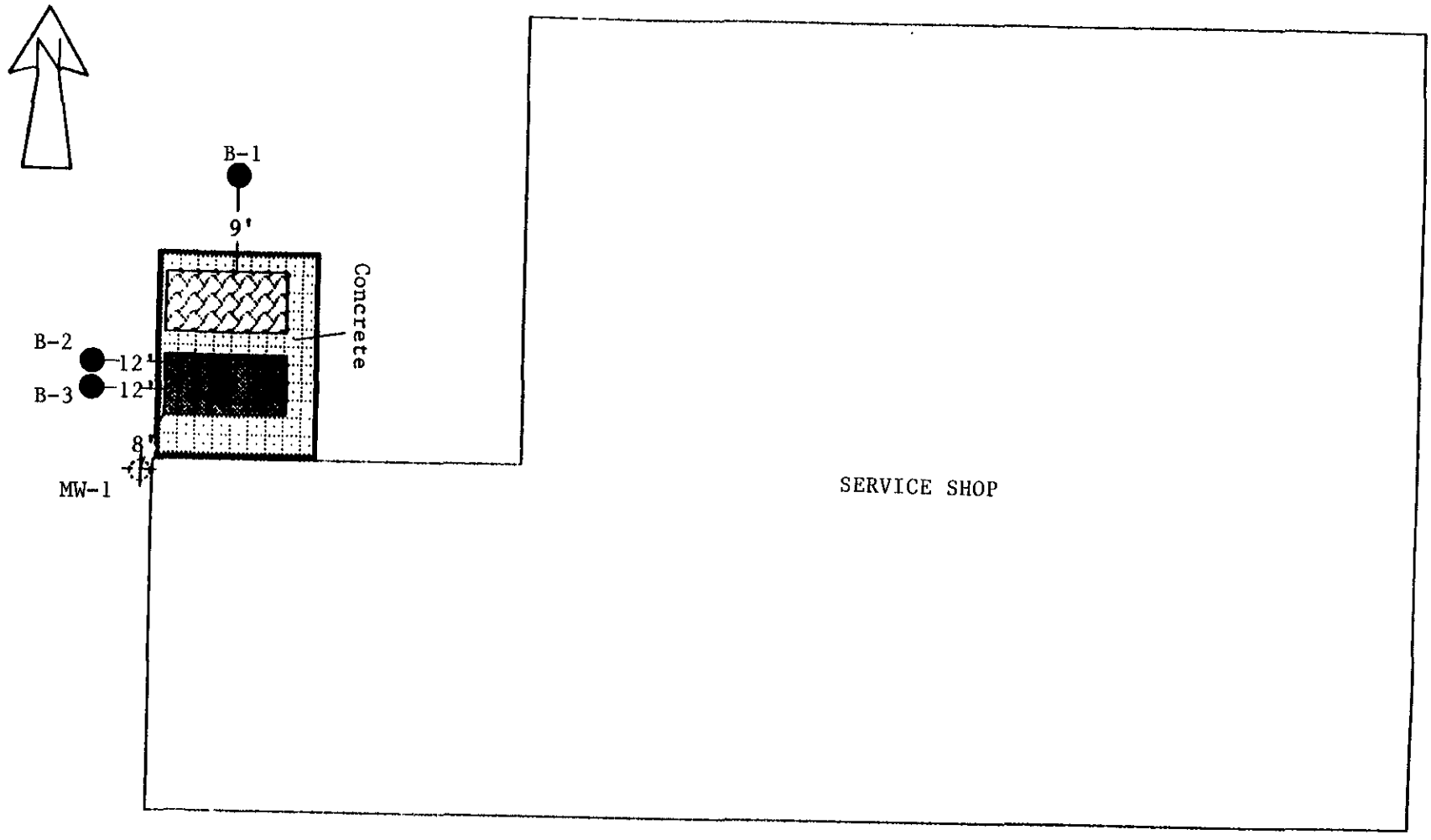
Figure
2



Clayton Environmental Consultants, Inc.

Site Plan and Monitoring Well and Boreholes Locations
Valley Nissan/Volvo
Dublin, California

Figure 3



Aboveground Gasoline Tank

Aboveground Waste Oil Tank

Monitoring Well

Borehole

Clayton Environmental Consultants, Inc.

Site Plan and Monitoring Well and Boreholes Locations
Valley Nissan/Volvo
Dublin, California

Figure 4

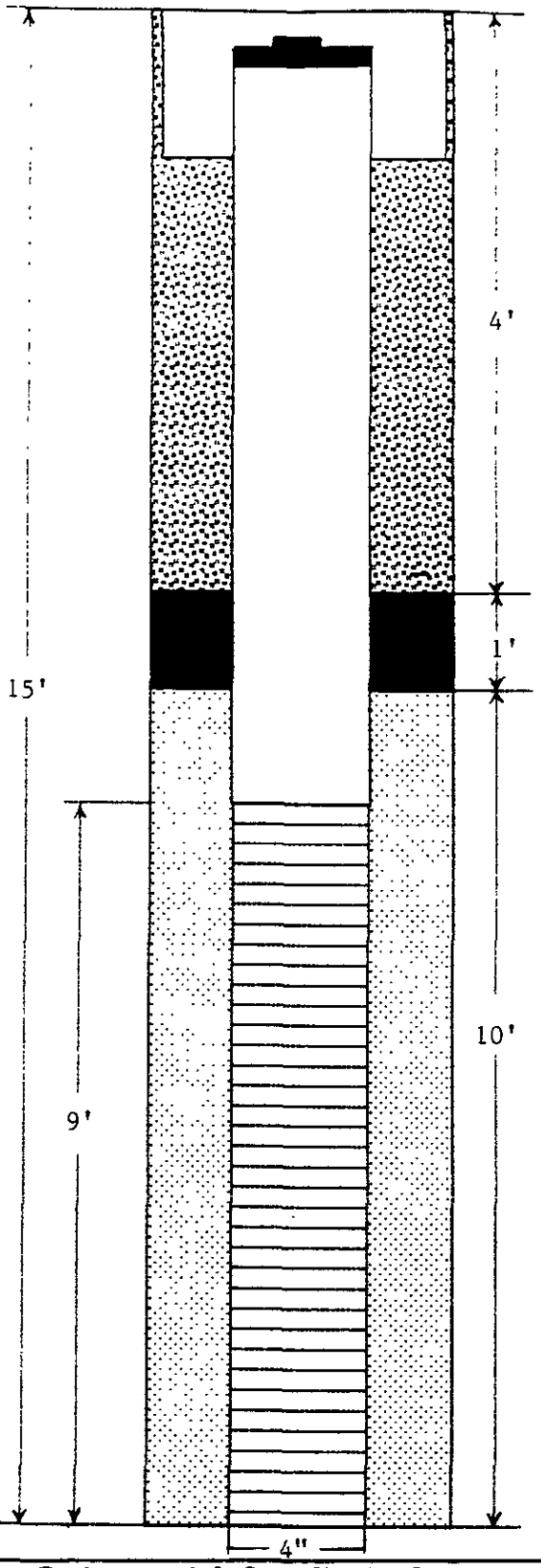
EXPLANATIONS

Grout

Bentonite Seal

Sand

4" PVC Schedule 40 Casing With 0.01" Slots



Clayton Environmental Consultants, Inc.

MW-1
Well Schematic
Valley Nissan/Volvo
Dublin, California

Figure 5

APPENDIX A

L.W. REPORT OF SOIL INVESTIGATION AND WASTE OIL TANK REMOVAL

Environmental Services, Inc.
2111 Jennings Street, San Francisco, CA 94124-3224, Phone (415) 822-4555 FAX (415) 822-5290

REPORT OF SOIL INVESTIGATION AND WASTE OIL TANK REMOVAL AT VALLEY NISSAN 6015 SCARLET COURT DUBLIN, CA

General Engineering Contractors License No. 507442
Certified for Hazardous Substances Removal and Remedial Actions

Environmental Services, Inc.
2111 Jennings Street, San Francisco, CA 94124-3224, Phone (415) 822-4555 FAX (415) 822-5290

July 22, 1988

REPORT OF SOIL INVESTIGATION
AT
VALLEY NISSAN
6015 Scarlet Court
Dublin, CA

Introduction

A soil investigation regarding potential soil contamination at the above site has been completed. Located on the site are two 500 gallon waste oil tanks. The tanks are double-walled fiberglass, and were installed in 1984. Due to problems with overfilling, the secondary containments of each of the tanks has become filled with waste oil. The purpose of the soil investigation is to determine 1) the extent of any subsurface contamination by petroleum hydrocarbons and/or other constituents adjacent to the tanks, and 2) the extent of any shallow subsurface contamination by petroleum hydrocarbons and/or other constituents at selected locations throughout the site.

Sampling Procedures

On July 12 and 13, 1988, soil samples were collected at eleven locations on the site. The locations of the borings are shown on the attached site plan. At borings #1 and #2, soil samples were collected at depths of approximately 2 feet below the bottom of the adjacent underground tank. At nine additional locations, soil samples were collected at depths of approximately six feet below the ground surface. Boring #3 was located adjacent to a portion of the perimeter planter area that appeared to have been used by the nearby service

garage as an informal place for dumping trash. At the time of the soil boring, a used car battery was noted to be among the debris. Boring #4 was located adjacent to a catch basin that appeared to receive wash water from the service garage on a regular basis. Boring #5 was located adjacent to the grease storage area located toward the northeasterly portion of the property.

Each boring was logged, and the soil sampling operation was supervised, by a registered civil engineer in the field. The boring logs are attached to this report. Each of the borings was drilled with 4-inch hollow-stem augers, using a poratble Mobile Minute-Man drill rig. During the drilling, soil samples were collected by driving a split-barrel sampler fitted with brass liners. One liner from each drive was immediately capped and placed on ice, then transported under chain-of-custody to the laboratory by the end of the working day.

Subsurface conditions

Based upon the boring logs, the soil beneath the site consists primarily of dark brown clay of moderate to high plasticity. No groundwater was encountered during the soil sampling adjacent to the two underground tanks. These borings reached a depth of approximately 10 feet. Free water was encountered at a depth of approximately 4 to 5 feet, however, in borings #3 and #5. These borings were located in close proximity to irrigation and utility trenches, which generally contain highly permeable backfill material such as sand or pea gravel. Considering the low permeability of the native clays beneath the site, it is not surprising that free water is "perched" within these more permeable zones.

All of the soils encountered during the boring and sampling operations had very natural odors and appearances, with no aparent indication of subsurface contamination.

Analytical Methods

All analyses were conducted by Precision Analytical Laboratory, in accordance with EPA recommended procedures. All samples were analyzed for total petroleum hydrocarbons, all EPA priority heavy metals, phenols, and sulfides.

Chain of Custody

Formal, signed chain-of-custody records are attached.

Laboratory Results

The results of the laboratory analyses of the soil samples are attached. No petroleum hydrocarbons were detected in any of the soil samples. The detection limit for this analysis is 20 mg/kg (ppm). In addition, no significant levels of heavy metals, sulfides, or phenols were detected in any of the soil samples.

Historical Research

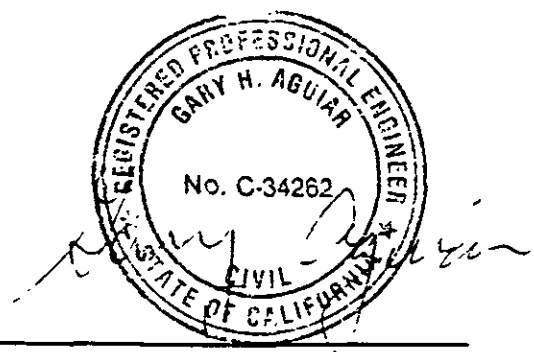
As part of this soil investigation, the presence of possible contamination sites in close vicinity to the Valley Nissan site was investigated. It was found that two leaking underground gasoline storage tanks (500 gal. each), were located on the adjacent property to the west (6055 Scarlet Court, owned by the Scotsman Company). The tanks were removed on October 23, 1987. At the time of their removals, two soil samples were collected by Geonomics, Inc. from the areas beneath the tanks. The results of the analyses indicated contamination by total petroleum hydrocarbons as gasoline at concentrations

of 150 mg/kg (ppm) and 62 mg/kg (ppm). Considering these relatively low concentrations, as well as the presence of low permeabilty clays in the area, it is highly unlikely that this nearby contamination has had any impact upon the Valley Nissan site. The soil sampling report by Geonomics is attached.

Conclusions and Recommendations

The data indicate that the Valley Nissan site is underlain by a low permeability clay with no aparent subsurface contamination due to the presence of the two underground tanks. In addition, there is no evidence of past surficial dumping or spilling of chemicals on the site.

Although the two waste oil tanks on the site are relatively new and appear to be intact based upon the soil sampling results, the presence of waste oil within the annular space poses a particular problem in regard to future monitoring as required by State law. Since the tanks are relatively small, it is recommended that they be removed and replaced with an above-ground storage system.



Gary Aguiar RCE 34262

BORING PERMITS

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE • PLEASANTON, CALIFORNIA 94566 • (415) 484-2600

GROUNDWATER PROTECTION ORDINANCE PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

(1) LOCATION OF PROJECT Valley Nissan
6015 Scarlett Court
Dublin, CA 94568

(2) CLIENT
Name British Motor Car Distributors
Address 901 Van Ness Ave Phone 776-7700
City San Francisco Zip 94109

(3) APPLICANT
Name L & W Environmental
Address 211 Jennings St Phone 822-4555
City San Francisco Zip 94124-3224

(4) DESCRIPTION OF PROJECT
Water Well Construction ___ Geotechnical X
Cathodic Protection ___ Well Destruction ___

(5) PROPOSED WATER WELL USE N/A
Domestic ___ Industrial ___ Irrigation ___
Municipal ___ Monitoring ___ Other ___

(6) PROPOSED CONSTRUCTION
Drilling Method:
Mud Rotary ___ Air Rotary ___ Auger X
Cable ___ Other ___

WELL PROJECTS N/A
Drill Hole Diameter ___ in. Depth(s) ___ ft.
Casing Diameter ___ in. Number
Surface Seal Depth ___ ft. of Wells ___
Driller's License No. ___

GEOTECHNICAL PROJECTS
Number 11
Diameter 4 in. Maximum Depth 10 ft.

(7) ESTIMATED STARTING DATE 7/12/88
ESTIMATED COMPLETION DATE 7/13/88

(8) I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE ___ Date 7/14/88

FOR OFFICE USE

PERMIT NUMBER 88328
LOCATION NUMBER ___

Approved Craig A. Mayfield Date 11 Jul 8
Craig A. Mayfield

PERMIT CONDITIONS

Circled Permit Requirements Apply

(A) GENERAL
1. A permit application should be submitted so as arrive at the Zone 7 office five days prior proposed starting date.
2. Notify this office (484-2600) at least one d prior to starting work on permitted work a before placing well seals.
3. Submit to Zone 7 within 60 days after completi of permitted work the original Department Water Resources Water Well Drillers Report equivalent for well projects, or bore hole l and location sketch for geotechnical projec Permitted work is completed when the last surf seal is placed or the last boring is completed.
4. Permit is void if project not begun within days of approval date.

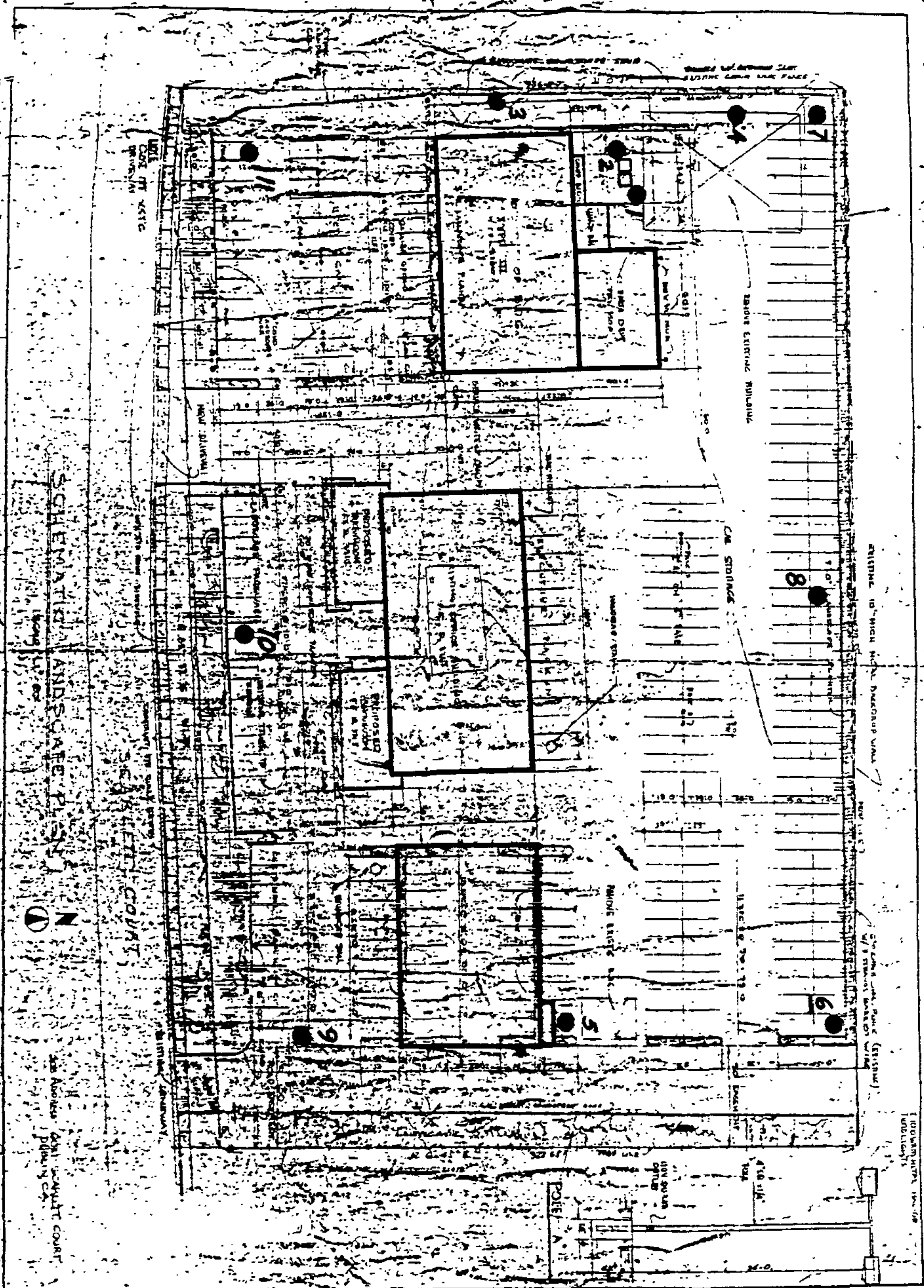
(B) WATER WELLS, INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches cement grout placed by tremie, or equivalent.
2. Minimum seal depth is 50 feet for municipal industrial wells or 20 feet for domestic, irri tion, and monitoring wells unless a lesser de is specially approved.

C. GEOTECHNICAL. Backfill bore hole with compacted c tings or heavy bentonite and upper two feet with c pacted material.

D. CATHODIC. Fill hole above anode zone with concr placed by tremie, or equivalent.

E. WELL DESTRUCTION. See attached.

BORING LOGS



Paul E. Iacono

Civil and Structural Engineer and General Contractor

LOCATION OF BORING

SEE SITE MAP

VALLEY NISSAN | DUBLIN

DRILLING METHOD: MOBILE MINUTE-MAN 4" HOLLOW STEM	BORING NO #1
	SHEET 1 of 1
SAMPLING METHOD: 1" SPLIT BARREL WITH BRASS LINERS	DRILLING START / FINISH
WATER LEVEL	
TIME	TIME 0930 / 100
DATE	DATE 7/12/88 / 7/12
CASING DEPTH	

DRILLING CONTR.

DATUM

ELEVATION

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT. SAMPLER		DEPTH IN FEET	SOIL GRAPH
						0	
						1	
						2	
						3	
						4	
						5	
						6	
						7	TANK
						8	
1" SPLIT	12/12			14/19	1000	9	
						10	
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	

SURFACE CONDITIONS:

BORING ADJACENT TO WASTE OIL TAN

ASPHALT
BASEROCK

DK BRN SILTY CLAY (CL), NEARLY DRY, SLIGHTLY GRAVELLY (NO ODOR)

SAME, SLIGHTLY MOIST, MODERATELY SOFT, OCCASIONAL COARSE SAND TO 1/4" (NO ODOR)

SAME, SLIGHTLY MOIST (NO ODOR)

TOTAL DEPTH = 10' BLS

BART H. AGUIAR
No. C-34262
REGISTERED PROFESSIONAL ENGINEER
CIVIL
STATE OF CALIFORNIA

CHK'D BY

DATE

BY

LOCATION OF BORING

SEE SITE MAP

JOB NO.

CLIENT: VALLEY NISSAN

LOCATION: DUBLIN

DRILLING METHOD: MOBILE MINUTE-MAN 4" HOLLOW STEM

BORING NO: #2

SHEET: 1 of 1

SAMPLING METHOD: 1" SPLIT BARREL WITH BRASS LINERS

WATER LEVEL					
TIME					
DATE					
CASING DEPTH					

DRILLING START: TIME 1015, DATE 7/12/88

DRILLING FINISH: TIME 120, DATE 7/12

DATUM

ELEVATION

DRILLING CONTR.

BY

DATE

CHK'D BY

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT. SAMPLER		DEPTH IN FEET	SOIL GRAPH
						0	
						1	
						2	
						3	
						4	
						5	
						6	
						7	TANK
						8	
1" SPLIT	18/18			7/17/20	1205	9	
						10	
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	

SURFACE CONDITIONS:

BORING ADJACENT TO WASTE OIL TANK

ASPHALT
BASE ROCK

DK BRN SILTY CLAY (CL), SLIGHTLY MOIST, MODERATELY SOFT, OCCASIONAL GRAVEL (NO ODOR)

DK BRN CLAY (CL), SLIGHTLY MOIST, MODERATELY SOFT, HIGH PLASTICITY (NO ODOR)

TOTAL DEPTH = 9½' BLS

REGISTERED CIVIL ENGINEER
GARY H. AGUIAR
No. C-34262
CIVIL
STATE OF CALIFORNIA

LOCATION OF BORING

SEE SITE MAP

JOB NO.	CLIENT	LOCATION
	VALLEY NISSAN	DUBLIN

DRILLING METHOD:	BORING NO
MOBILE MINUTE-MAN 4" HOLLOW STEM	#3
	SHEET
	1 of 1
SAMPLING METHOD:	DRILLING
1" SPLIT BARREL WITH BRASS LINERS	START / FINISH

WATER LEVEL				TIME	1212 / 134
TIME				DATE	7/12/88 / 7/12
DATE					
CASING DEPTH					

DRILLING CONTR. _____ DATUM _____ ELEVATION _____

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT. SAMPLER		DEPTH IN FEET	SOIL GRAPH
						0	
						1	
						2	
						3	
						4	
						5	
1" SPLIT	12/6			27/13	1345	6	
						7	
						8	
						9	
						0	
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	

SURFACE CONDITIONS:

ASPHALT
BASEROCK

DK BRN CLAY (CL), SLIGHTLY MOIST, SILTY, OCCASIONAL COARSE SAND

DK BRN CLAY (CL), SATURATED, HIGH PLASTICITY, ROOT MATERIAL (NO ODOR)

TOTAL DEPTH = 6' BLS

REGISTERED PROFESSIONAL ENGINEER
GARY H. AGUIAR
No. C-34262
CIVIL
STATE OF CALIFORNIA

BY _____ DATE _____ CHK'D BY _____

LOCATION OF BORING

SEE SITE MAP

JOB NO.	CLIENT	LOCATION
	VALLEY NISSAN	DUBLIN

DRILLING METHOD: MOBILE MINUTE-MAN 4" HOLLOW STEM

BORING NO: #4

SHEET: 1 of 1

SAMPLING METHOD: 1" SPLIT BARREL WITH BRASS LINERS

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					1400	14
DATE					DATE	DATE
CASING DEPTH					7/12/88	7/12

DRILLING CONTR.

DATUM

ELEVATION

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT. SAMPLER		DEPTH IN FEET	SOIL GRAPH
						0	
						1	CATCH BASIN
						2	
						3	
						4	
						5	
1" SPLIT	12/12			5/6	1425	6	
						7	
						8	
						9	
						0	
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	

SURFACE CONDITIONS:

BORING ADJACENT TO CATCH BASIN

ASPHALT
BASEROCK

DK BRN SANDY CLAY (CL), NEARLY SFT, MODERATELY SOFT, HIGH PLASTICITY, SAND MEDIUM IN THIN STRIPS, PIECE OF WOOD (NO ODOR)

TOTAL DEPTH = 6' BLS

REGISTERED PROFESSIONAL ENGINEER
GARY H AGUIAR
No. C-34262
CIVIL
STATE OF CALIFORNIA

BY _____ DATE _____ CHK'D BY _____

LOCATION OF BORING

SEE SITE MAP

JOB NO	CLIENT	LOCATION
	VALLEY NISSAN	DUBLIN

DRILLING METHOD: MOBILE MINUTE-MAN 4" HOLLOW STEM

BORING NO: #5

SHEET: 1 of 1

SAMPLING METHOD: 1" SPLIT BARREL WITH BRASS LINERS

DRILLING START: 7/12/88

					DRILLING FINISH TIME	DRILLING FINISH DATE
WATER LEVEL						
TIME						
DATE						
CASING DEPTH						

DRILLING CONTR.

DATUM

ELEVATION

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT. SAMPLER		DEPTH IN FEET	SOIL GRAPH
						0	
						1	
						2	
						3	
						4	
1" SPLIT	12/12				1540	5	
						6	
						7	
						8	
						9	
						0	
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	

SURFACE CONDITIONS:

ASPHALT
BASEROCK

DK BRN CLAY (CL). SATURATED. HIGH PLASTICITY, OCCASIONAL COARSE SAND

(NO ODOR)

TOTAL DEPTH = 6' BLS

REGISTERED PROFESSIONAL ENGINEER
GARY H. AGUIAR
No. C-34262
CIVIL
STATE OF CALIFORNIA

BY _____ DATE _____ CHK'D BY _____

LOCATION OF BORING

SEE SITE MAP

JOB NO.	CLIENT	LOCATION
	VALLEY NISSAN	DUBLIN

DRILLING METHOD: MOBILE MINUTE-MAN 4" HOLLOW STEM

BORING NO. #6

SHEET 1 of 1

SAMPLING METHOD: 1" SPLIT BARREL WITH BRASS LINERS

DRILLING START / FINISH

WATER LEVEL					TIME
TIME					
DATE					DATE 7/12/88
CASING DEPTH					

DRILLING CONTR.

DATUM ELEVATION

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT. SAMPLER		DEPTH IN FEET	SOIL GRAPH
						0	
						1	
						2	
						3	
						4	
1" SPLIT				15/18	1630	5	
						6	
						7	
						8	
						9	
						10	
						11	
						12	
						13	
						14	
						15	
						16	
						17	
						18	
						19	
						20	

SURFACE CONDITIONS.

ASPHALT
BASEROCK

DK BRN CLAY (CL), SLIGHTLY MOIST, MODERATE PLASTICITY, WHITE SALT CRYSTAL (NO ODOR)

TOTAL DEPTH = 6' BLS

REGISTERED PROFESSIONAL ENGINEER
GARY H. AGUIAR
No. C 34262
CIVIL
STATE OF CALIFORNIA

BY _____ DATE _____ CHK'D BY _____

LOCATION OF BORING

SEE SITE MAP

JOB NO.	CLIENT	LOCATION
	VALLEY NISSAN	DUBLIN

DRILLING METHOD: HOBILE MINUTE-MAN 4" HOLLOW STEM

BORING NO #7

SHEET 1 of 1

SAMPLING METHOD: 1" SPLIT BARREL WITH BRASS LINERS

DRILLING START FINISH

					TIME	TIME
WATER LEVEL						
TIME						
DATE					DATE	DATE
CASING DEPTH					7/13/88	

DRILLING CONTR

DATUM ELEVATION

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT. SAMPLER		DEPTH IN FEET	SOIL GRAPH
						0	
						1	
						2	
						3	
						4	
1" SPLIT						5	
						6	
						7	
						8	
						9	
						0	
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	

SURFACE CONDITIONS:

ASPHALT

DK BRN SILTY CLAY (CL), SLIGHTLY MOIS
OCCASIONAL COARSE SAND
(NO ODOR)

TOTAL DEPTH = 6' BLS

REGISTERED PROFESSIONAL ENGINEER
GARY H. AGUIAR
No. C-34262
CIVIL
STATE OF CALIFORNIA

BY _____ DATE _____ CHK'D BY _____

LOCATION OF BORING

SEE SITE MAP

JOB NO.	CLIENT	LOCATION
	VALLEY NISSAN	DUBLIN

DRILLING METHOD: MOBILE MINUTE-MAN 4" HOLLOW STEM

BORING NO #8

SHEET 1 of 1

SAMPLING METHOD: 1" SPLIT BARREL WITH BRASS LINERS

DRILLING START TIME / FINISH TIME

WATER LEVEL					
TIME					
DATE					
CASING DEPTH					

DATE 7/13/88

DRILLING CONTR.

DATUM ELEVATION

BY DATE CHK'D BY

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT. SAMPLER		DEPTH IN FEET	SOIL GRAPH
						0	
						1	
						2	
						3	
						4	
						5	
1" SPLIT						6	
						7	
						8	
						9	
						10	
						11	
						12	
						13	
						14	
						15	
						16	
						17	
						18	
						19	
						20	

SURFACE CONDITIONS:

ASPHALT

DK BRN SILTY CLAY (CL), SLIGHTLY MOIST
OCCASIONAL COARSE SAND,
MOD. PLASTICITY
(NO ODOR)

TOTAL DEPTH = 6' BLS

REGISTERED PROFESSIONAL ENGINEER
GARY H. AGUIAR
No. C-34262
CIVIL
STATE OF CALIFORNIA

LOCATION OF BORING

SEE SITE MAP

JOB NO.	CLIENT	LOCATION
	VALLEY NISSAN	DUBLIN

DRILLING METHOD: MOBILE MINUTE-MAN 4" HOLLOW STEM

BORING NO: #9

SHEET: 1 of 1

SAMPLING METHOD: 1" SPLIT BARREL WITH BRASS LINERS

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME						
DATE					DATE	DATE
CASING DEPTH					7/13/88	

DRILLING CONTR.

DATUM

ELEVATION

BY

CHK'D BY

DATE

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT. SAMPLER		DEPTH IN FEET	SOIL GRAPH
						0	
						1	
						2	
						3	
						4	
						5	
1" SPLIT						6	
						7	
						8	
						9	
						10	
						11	
						12	
						13	
						14	
						15	
						16	
						17	
						18	
						19	
						20	

SURFACE CONDITIONS:

ASPHALT

GREY-BRN SILTY CLAY (CL), SLIGHTLY M
OCCASIONAL COARSE SAND.
HIGH PLASTICITY

(NO ODOR)

TOTAL DEPTH = 6' BLS

REGISTERED PROFESSIONAL ENGINEER
GARY H. AGUIAR
No. C-34262
CIVIL
STATE OF CALIFORNIA

LOCATION OF BORING

SEE SITE MAP

JOB NO.	CLIENT	LOCATION
	VALLEY NISSAN	DUBLIN

DRILLING METHOD: MOBILE MINUTE-MAN 4" HOLLOW STEM

SAMPLING METHOD: 1" SPLIT BARREL WITH BRASS LINERS

BORING NO: #10

SHEET: 1 of 1

					DRILLING START	DRILLING FINISH
WATER LEVEL						
TIME					TIME	TIME
DATE					DATE	DATE
CASING DEPTH					7/13/88	

DRILLING CONTR.

DATUM

ELEVATION

BY

DATE

CHK'D BY

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT. SAMPLER		DEPTH IN FEET	SOIL GRAPH
						0	
						1	
						2	
						3	
						4	
						5	
1" SPLIT						6	
						7	
						8	
						9	
						10	
						11	
						12	
						13	
						14	
						15	
						16	
						17	
						18	
						19	
						20	

SURFACE CONDITIONS:

ASPHALT

DK BRN CLAY (CL), SLIGHTLY MOIST. HIGH PLASTICITY

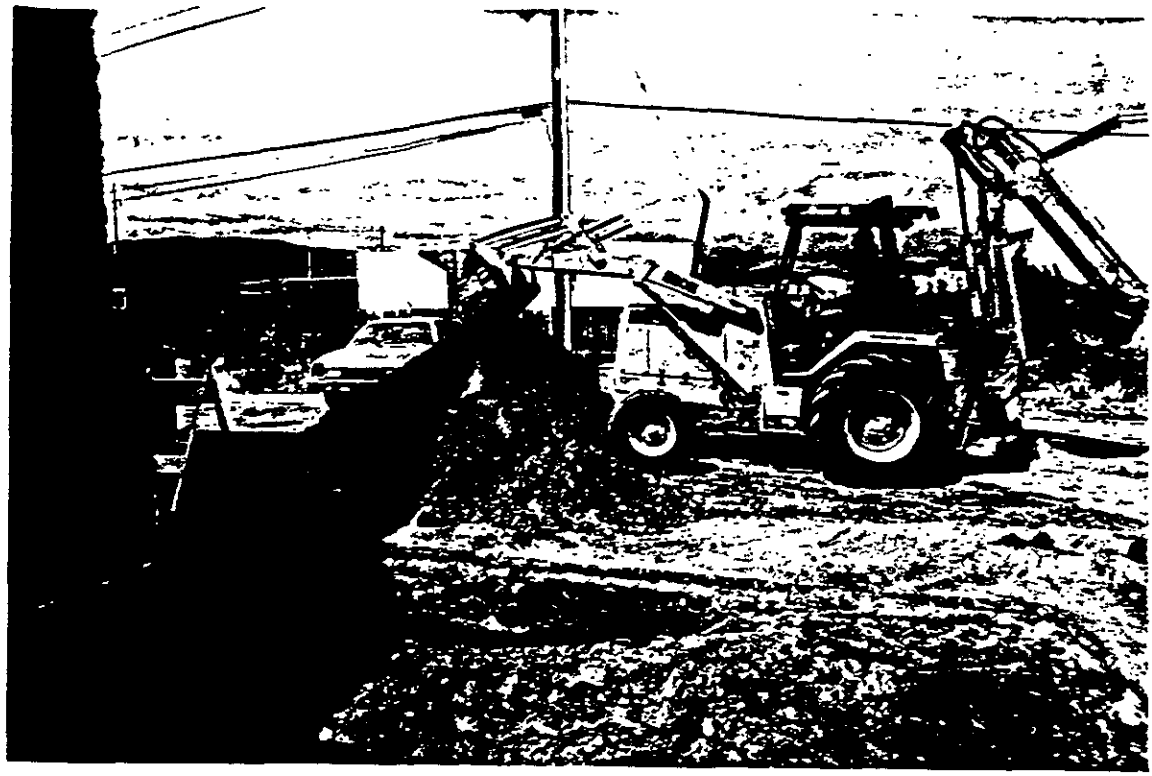
(NO ODOR)

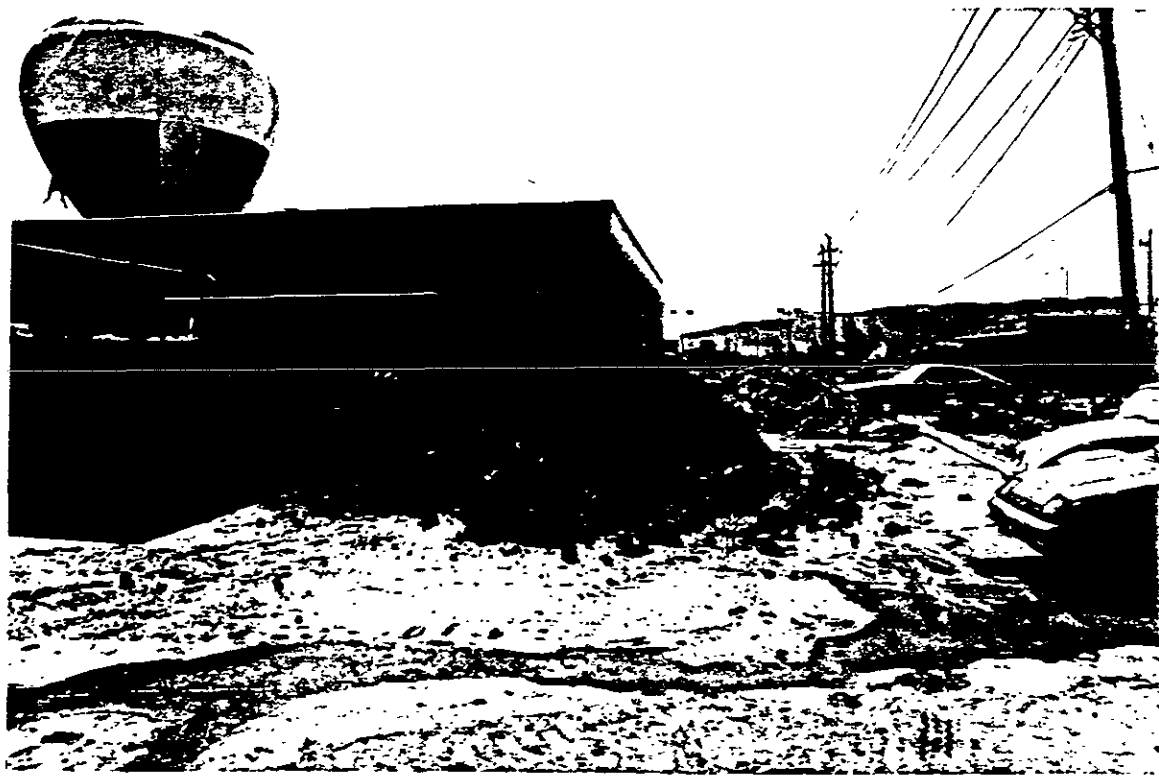
TOTAL DEPTH = 6' BLS

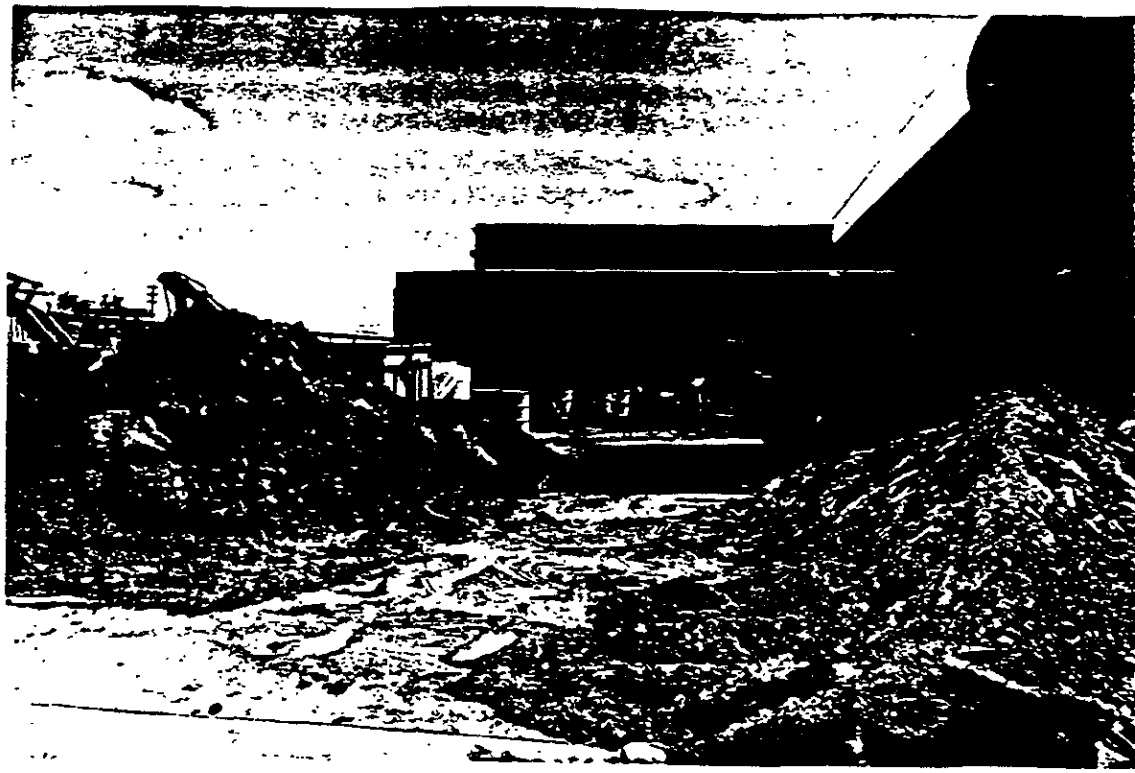
REGISTERED PROFESSIONAL ENGINEER
GARY H. AGUIAR
No. C-34262
CIVIL
STATE OF CALIFORNIA

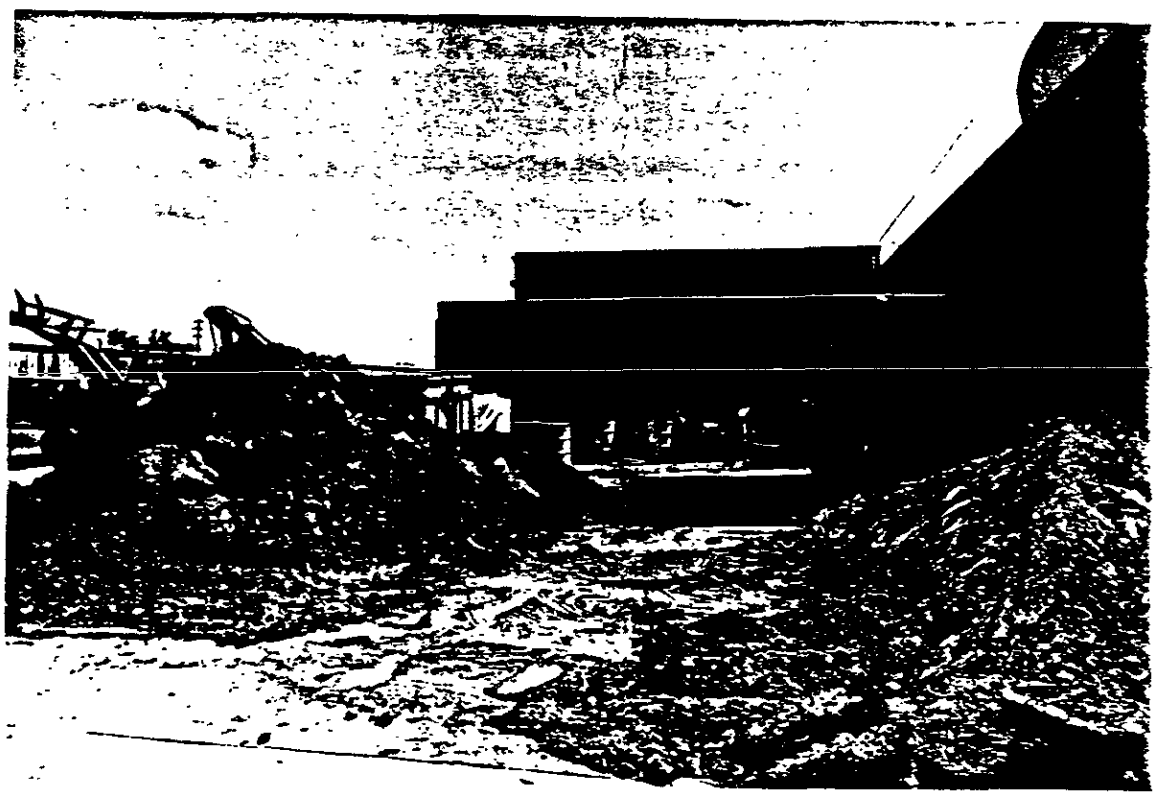
TANK REMOVAL

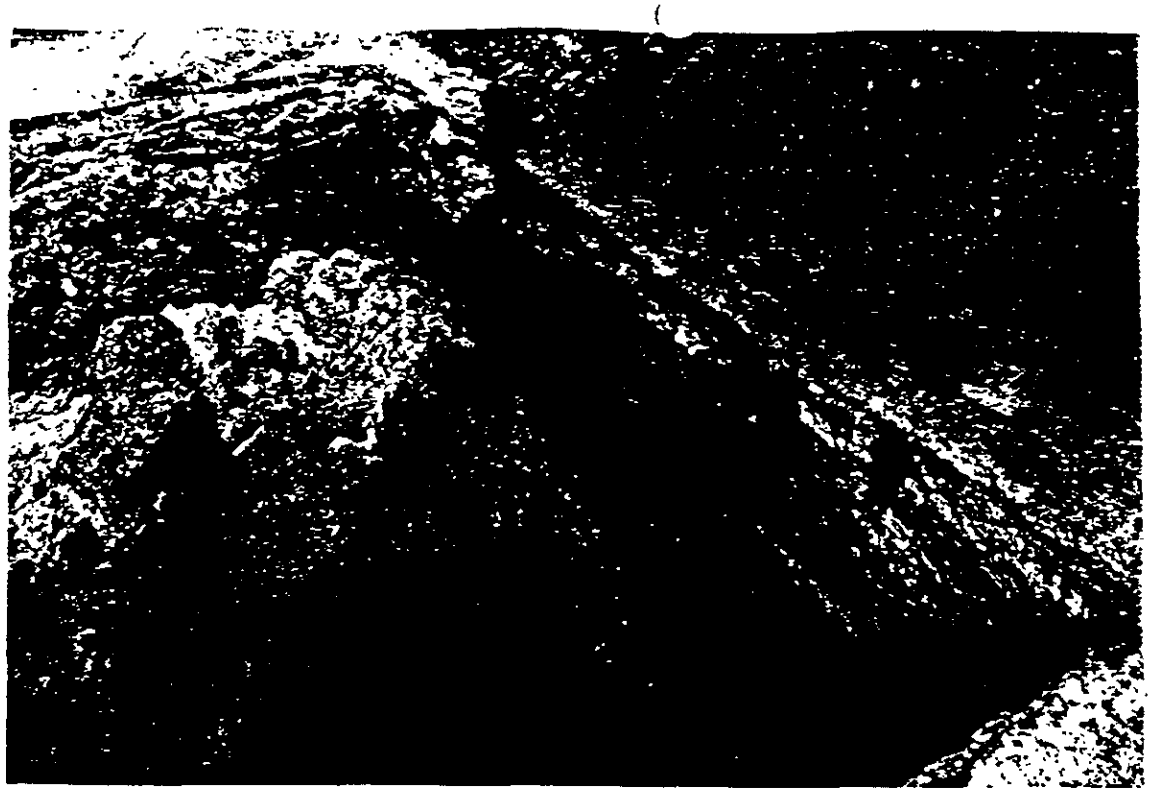
PHOTOS











TANK MANIFEST

Ple[illegible] print or type (Form designed for use on elite (12 pitch) typewriter) Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No CAD981[illegible]	Manifest Document No	2 Page 1 of 1	Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
VALLEY [illegible]
[illegible]

4 Generator's Phone ( ) [illegible]

A State Manifest Document Number [illegible]

B State Generator's ID

5 Transporter 1 Company Name [illegible] 6 US EPA ID Number [illegible]

C State Transporter's ID

D Transporter's Phone

7 Transporter 2 Company Name 8 US EPA ID Number

E State Transporter's ID

F Transporter's Phone

9 Designated Facility Name and Site Address [illegible] 10 US EPA ID Number [illegible]

G State Facility's ID

H Facility's Phone 415/235-1393

11 US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I Waste No
a WASTE [illegible] [illegible] ASTE [illegible]	[illegible]		[illegible]		State 512 EPA/Other NONE
b					State EPA/Other
c					State EPA/Other
d					State EPA/Other

J Additional Descriptions for Materials Listed Above
EMPTY WASTE OIL TANK [illegible] SOLID DRY ICE. WASTE OIL TANK [illegible] ICED W/ SOLID DRY ICE.

K Handling Codes for Wastes Listed Above
a b c d

15 Special Handling Instructions and Additional Information

16 **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment, OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford

Printed/Typed Name	Signature	Month Day Year
[illegible]		[illegible]

17 Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
		[illegible]

18 Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

19 Discrepancy Indication Space

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Printed/Typed Name	Signature	Month Day Year

GENERATOR / TRANSPORTER / FACILITY

8022 A (1 87)
8700—22
(9 86) Previous editions are obsolete

YELLOW: GENERATOR RETAINS

INSTRUCTIONS ON THE BACK

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1 800-424-8802 WITHIN CALIFORNIA CALL 1 800-852 7550

CONTAMINATED SOIL

MANIFEST

Form Approved OMB No. 2050—0039 (Expires 9-30-[illegible])

Please print or type. (Form designed for use on elite 12-pitch typewriter).

Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAD981415554 [partly illegible] — Manifest Document No.: [illegible]

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: 87809933

3. Generator's Name and Mailing Address:
VALLEY NISSAN
6015 SCARLETT CT. DUBLIN, CALIFORNIA 94568

4. Generator's Phone: 415-829-3800 [illegible]

B. State Generator's ID

5. Transporter 1 Company Name: DILLARD TRUCKING
6. US EPA ID Number: CAD [illegible]

C. State Transporter's ID: 902904

D. Transporter's Phone: (415) 471-210[illegible]

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address:
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CALIFORNIA 93429

10. US EPA ID Number: CAD020748125

G. State Facility's ID: CAD020748125

H. Facility's Phone: (805) 937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE HYDROCARBON CONTAMINATED SOIL, CALIFORNIA REGULATED WASTE ONLY	001	DT	00015	Y	State: 611; EPA/Other: Non RCRA
b.					State: ; EPA/Other:
c.					State: ; EPA/Other:
d.					State: ; EPA/Other:

J. Additional Descriptions for Materials Listed Above:
SOIL CONTAMINATED WITH OIL AND DIESEL LESS THAN 1%.

K. Handling Codes for Wastes Listed Above: a. 03 b. c. d.

15. Special Handling Instructions and Additional Information:
WEAR PROTECTIVE CLOTHING, GLOVES AND GOGGLES.

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: RON IMPERIALE — Signature: [signature] — Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: TIM TALIAFERRO — Signature: [signature] — Month Day Year: [illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Casmalia Resources — Signature: Dennis Finley Dennis Watkins — Month Day Year: [illegible]

DHS 8022 A (1/87) 1630 — 15860
EPA 8700—22
(Rev 9-86) Previous editions are obsolete

TSD SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

INSTRUCTIONS ON THE BACK

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR / TRANSPORTER / FACILITY

Please print or type. (Form designed for use on elite (12-pitch) typewriter).

Toxic Substances Control D... Sacramento, Cal...

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD981658610
Manifest Document No.
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
VALLEY A. SSANLUCK
6015 SCARLETT CT DUBLIN CALIFORNIA 94568

A. State Manifest Document Number 87857034

4. Generator's Phone (415) 829 0860

B. State Generator's ID

5. Transporter 1 Company Name
6. US EPA ID Number

C. State Transporter's ID 70 409
D. Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA CALIFORNIA

10. US EPA ID Number CAD020748125

G. State Facility's ID CAD020748125
H. Facility's Phone (805) 937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE HYDROCARBON CONTAMINATED SOIL, CALIFORNIA REGULATED ONLY	001	D[illegible]	[illegible]	[illegible]	State 611 EPA/Other NON RCR[illegible]
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL CONTAMINATED WITH DIESEL AND OIL LESS THAN 1%

K. Handling Codes for Wastes Listed Above
a. 03
b.
c.
d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING, GLOVES & GOOGLES

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: RON INFERIACE
Signature: [signature]
Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: GENE SMITH
Signature: [signature]
Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: 108032-33110 CASMALIA RESOURCES
Signature: [signature]
Month Day Year

GENERATOR / TRANSPORTER / FACILITY

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A (1/87)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

INSTRUCTIONS ON THE BACK

lease print or type. (Form designed for use on 12-pitch typewriter)

Toxic Substances Control Div. Sacramento, Calif.

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802, WITHIN CALIFORNIA CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST

GENERATOR

1. Generator's US EPA ID No. CAD981158110
Manifest Document No.
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
VALLEY NISSAN/VOLVO
6015 SCARLETT CT DUBLIN CALIFORNIA 94568

A. State Manifest Document Number 87857033

4. Generator's Phone (415) 8290400

B. State Generator's ID

5. Transporter 1 Company Name R Daucrele
6. US EPA ID Number CAD980585780

C. State Transporter's ID
D. Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA CALIFORNIA
10. US EPA ID Number KAD020748125

G. State Facility's ID CAD020748125
H. Facility's Phone (805) 937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE HYDROCARBON CONTAMINATED SOIL CALIFORNIA REGULATED ONLY	002	DT	99020	Y	State 611; EPA/Other non RCRA
b.					State; EPA/Other
c.					State; EPA/Other
d.					State; EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL CONTAMINATED with DIESEL AND OIL LESS THAN 18

K. Handling Codes for Wastes Listed Above
a. 03
b.
c.
d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING GLOVES AND GOGGLES

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: RON IMPERIALE
Signature: [signature]
Month Day Year: 09 26

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: R Daucrele
Signature: [signature]
Month Day Year: 09 23

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: TS 036 - 47,440 lb CASMALIA RESOURCES
Signature: [signature]
Month Day Year

DHS 8022 A (1/87)
EPA 8700—22
(Rev 9-86) Previous editions are obsolete.

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

INSTRUCTIONS ON THE BACK

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD981655610 — Manifest Document No.

2. Page 1 of 1 — Information in the shaded ar is not required by Federal la

3. Generator's Name and Mailing Address
NATLEY NISSAN/VOLVO
6015 SCARLETT CT DUBLIN CALIFORNIA

4. Generator's Phone (415) 829 0100

A. State Manifest Document Number 87857032

B. State Generator's ID

5. Transporter 1 Company Name LAIDLAW

6. US EPA ID Number CAD981416937

C. State Transporter's ID 02120

D. Transporter's Phone 263-82

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
ASMALIA RESOURCES
4TH ROAD
CASMALIA CALIFORNIA

10. US EPA ID Number CAD020748125

G. State Facility's ID CAD020748125

H. Facility's Phone (805) 937 8119

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste N
a. WASTE HYDROCARBON CONTAMINATED SOIL CALIFORNIA REGULATED CRUDE	001	CT	0010	Y	State 611 EPA/Other NON RC
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL CONTAMINATED WITH DIESEL AND OIL LESS THAN 1%
LVISO

K. Handling Codes for Wastes Listed Above
a. b. 13,
c. d. 6

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipp name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applica international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I ha determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a go faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name RON IMPERIALE — Signature — Month 05 Day 12

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name TONY MUNOZ — Signature — Month 05 Day 12

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name — Signature — Month Day

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802, WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A (1/87)
EPA 8700—22
(Rev 9-86) Previous editions are obsolete.

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

INSTRUCTIONS ON THE BAC

SOIL ANALYSIS

Precision Analytical Laboratory, Inc.

2311 JENNINGS STREET SAN FRANCISCO CA 94124-3224 PHONE 415 822 5545

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Date Received: 8/5/88
Date Reported: 8/10/88
Job #: 70429

VALLEY NISSAN
1605 SCARLETT CT
DUBLIN, CA

OIL AND GREASE
mg/kg

SAMPLE ID	CONCENTRATION
70429-1	340
70429-2	3.3%
70429-3	2.2%
70429-4	59
70429-5	5
70429-6	150
70429-7	120

Jaime Chow
Laboratory Director

OUTSTANDING QUALITY AND SERVICE

Precision Analytical Laboratory, Inc.

2[illegible] JENNINGS STREET SAN FRANCISCO CA 94124-3224 PHONE 415 822-9649

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Date Received: 8/5/88
Date Reported: 8/10/88
Job #: 70429

VALLEY NISSAN
1605 SCARLETT CT
DUBLIN, CA

TOTAL PETROLEUM HYDROCARBON ANALYSIS
by Modified Method 8015
mg/kg

SAMPLE ID	CONCENTRATION	HYDROCARBON
70429-1	1100	DIESEL
70429-2	24%	DIESEL
70429-3	4.4%	DIESEL
70429-4	3200	DIESEL
70429-5	130	DIESEL
70429-6	400	DIESEL
70429-7	150	DIESEL

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

2111 JENNINGS STREET SAN FRANCISCO CA 94124-3224 PHONE 415 822 [illegible]

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Date Received: 8/11/88
Date Reported: 8/22/88
Job #: 70436

VALLEY NISSAN

SAMPLE ID	TOTAL PETROLEUM HYDROCARBON	OIL & GREASE
9007-1	ND<20 ppm	14.9 ppm
9007-2	ND<20 ppm	221.9 ppm
9007-3	ND<20 ppm	74.0 ppm
9007-4	ND<20 ppm	224.7 ppm
9007-5	ND<20 ppm	79.7 ppm
9007-6	ND<20 ppm	398.8 ppm
9007-7	ND<20 ppm	164.6 ppm
9007-8	ND<20 ppm	427.0 ppm

QA/QC: SPIKE RECOVERY FOR GASOLINE: 97.4
SPIKE RECOVERY FOR OIL & GREASE: 85%

Jaime Chow
Laboratory Director

OUTSTANDING QUALITY AND SERVICE

Precision Analytical Laboratory, Inc.

2311 JENNINGS STREET SAN FRANCISCO CA 94124-3224 PHONE 415 822 9649

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Date Received: 8/12/88
Date Reported: 8/22/88
Job #: 70439

VALLEY NISSAN

SAMPLE ID	TOTAL PETROLEUM HYDROCARBON	OIL & GREASE
9007-1	ND<20	
9007-2	ND<20	
9007-3	ND<20	895 mg/kg
9007-4	ND<20	135 mg/kg

QA/QC: SPIKE RECOVERY FOR GASOLINE: 83.9%
SPIKE RECOVERY FOR OIL & GREASE: 85%

Jaime Chow
Laboratory Director

CHAIN OF CUSTODY

CHAIN OF CUSTODY RECORD

PROJ. NO. 1001

SAMPLERS: (Signature) Mary Ogilvie

PROJECT NAME AND ADDRESS

VALLEY NISSAN 1605 Scarlett Court

DUBLIN

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION
#1	8/5/88	1220	X		EXCAVATED SOIL
#2	8/5/88		X		EXCAVATED SOIL
#3	8/5/88		X		EXCAVATED SOIL
#4	8/5/88		X		NORTH SIDE TANK EXCAVATION
#5	8/5/88		X		WEST SIDE TANK EXCAVATION
#6	8/5/88	↓	X		EAST SIDE TANK EXCAVATION
#7	8/5/88	1235	X		SOUTH SIDE TANK EXCAVATION

ANALYSIS REQUESTED

TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8240	TOTAL OIL & GREASE (WASTE OIL)	TETRAETHYL LEAD	REMARKS
X			X		
X			X		
X			X		
X			X		
X			X		
X			X		
X			X		

RELINQUISHED BY: (Signature) Mary Ogilvie

DATE 8/5/88 TIME 1245

RECEIVED BY: (Signature) Dan L. Lawson

RELINQUISHED BY: (Signature)

DATE TIME

RECEIVED BY: (Signature)

DATE TIME

DATE TIME

PRECISION ANALYTICAL LABORATORY, INC.

CHAIN OF CUSTODY RECORD

PROJ. NO. 9007

SAMPLERS: (Signature) [signature]

PROJECT NAME AND ADDRESS:

VALLEY NISSAN/VOLVO
SCARLETT CT.
DUBLIN, CALIFORNIA

ANALYSIS REQUIRED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	~~DISSOLVED SULFIDES~~ TPH	CHEMICAL OXYGEN DEMAND	OIL & GREASE	TOTAL CYANIDES	HEXAVALENT CHROMIUM	TOTAL CHROMIUM	COPPER, LEAD & ZINC	REMARKS
9007-01	8-11-88	1340	✓		East wall NE corner 4'	✓		✓					
9007-02	8-11-88	1345	✓		East wall Center 4'	✓		✓					
9007-03	8-11-88	1345	✓		East wall SE corner 4'	✓		✓					
9007-04	8-11-88	1350	✓		North east corner bottom of pit 10'	✓		✓					
~~9007-05~~	~~8-11-88~~	~~1415~~	✓										
9007-05	8-11-88	1415	✓		North wall NE corner 4'	✓		✓					
9007-06	8-11-88	1535	✓		East wall NE corner 10'	✓		✓					
9007-07	8-11-88	1600	✓		North wall Center 10'	✓		✓					
9007-08	8-11-88	1600	✓		North wall NW corner 10'	✓		✓					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	DATE 8/11/88 TIME [illegible]	[signature]	DATE 8/11/88 TIME [illegible]
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE TIME

CHAIN OF CUSTODY RECORD

Last Sampling

PROJ. NO.: 9027 (?)

SAMPLERS: (Signature) [illegible signature]

PROJECT NAME AND ADDRESS:
Valley Nissan
6015 Scarlett Ct.
Dublin, Ca.

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8240	TOTAL OIL & GREASE	TETRAETHYL LEAD	REMARKS
9027-01	8-12-88	12.40	✓		Left side of wall in Pit	✓					After Removal
9027-02	8-12-88	12.44	✓		Back side of wall in Pit	✓					of contaminated
9027-03	8-12-88	12.49	✓		Right side of wall in Pit	✓					dirt
9027-4	8-12-88	12.53	✓		Bottom of Pit	✓					
											See over →

Handwritten above the REMARKS heading: Tufk. (?)

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible signature]	DATE 8-12-88 TIME 4 30 PM	David C. Pelletier (?)	DATE 8/12 (?) TIME 4:30
	DATE TIME		DATE TIME
	DATE TIME		DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE TIME

CHAIN OF CUSTODY RECORD

PROJ. NO.	SAMPLERS: (Signature)
9057	[illegible signature]

PROJECT NAME AND ADDRESS:
Valley [illegible]
6015
Dublin CA

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8240	TOTAL OIL & GREASE	TETRAETHYL LEAD		REMARKS
7057-35	8-12-88	11:00	X		Gravel from Pit [illegible], removed	X						Pea [illegible] gravel
7057-36	8-12-88	11:05	X		" " " " "	X						[illegible] same
												soil & gravel

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible signature]	DATE 8-12-88 TIME 4:30PM	[illegible signature]	DATE TIME 4.
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE TIME

ALAMEDA HEALTH

DEPARTMENT

HAZMAT DIVISION

TANK CLOSURE PERMITS

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
470 - 27TH ST., RM. 322
OAKLAND, CA 94612
PHONE NO. 415/874-7237

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

1. Business Name VALLEY NISSAN

   Business Owner ASIAN PACIFIC INDUSTRIES, INC.

2. Site Address 6015 SCARLETT COURT

   City DUBLIN Zip 94568 Phone (415) 829-0800

3. Mailing Address 6015 SCARLETT COURT

   City DUBLIN Zip 94568 Phone (415) 829-0800

4. Land Owner BRUCE AND JEFF QVALE

   Address 901 VAN NESS AVENUE City, State SAN FRANCISCO, CA Zip 94109

5. EPA I.D. No. CAD981658610

6. Contractor L & W ENVIRONMENTAL SERVICES, INC.

   Address 2111 JENNINGS STREET

   City SAN FRANCISCO Phone (415) 822-4555

   License Type A GEN. ENG. ID# 507442

7. Other (Specify)

   Address

   City Phone

8. Contact Person for Investigation

Name GEORGE WILSON Title VICE PRESIDENT - L & W ENVIRONMENTAL SERVICES, INC.

Phone (415) 822-4555

9. Total No. of Tanks at facility TWO

10. Have permit applications for all tanks been submitted to this office? Yes [XX] No [ ]

11. State Registered Hazardous Waste Transporters/Facilities

a) Product/Waste Tranporter

Name ERICKSON EPA I.D. No. CAD009466392

Address 255 PARR BOULEVARD

City RICHMOND State CA Zip 94801

b) Rinsate Transporter

Name ERICKSON EPA I.D. No. CAD009466392

Address 255 PARR BOULEVARD

City RICHMOND State CA Zip 94801

c) Tank Transporter

Name ERICKSON EPA I.D. No. CAD009466392

Address 255 PARR BOULEVARD

City RICHMOND State CA Zip 94801

d) Contaminated Soil Transporter

Name ERICKSON EPA I.D. No. CAD009466392

Address 255 PARR BOULEVARD

City RICHMOND State CA Zip 94801

12. Sample Collector

Name DAVID PICHETTE - CHEMIST

Company PRECISION ANALYTICAL LABORATORY, INC.

Address 2111 JENNINGS STREET

City SAN FRANCISCO State CA Zip 94124 Phone (415) 822-9649

13. Sampling Information for each tank or area

Tank or Area NORTH CORNER OF SERVICE DEPARTMENT		Material sampled	Location & Depth
Capacity	Historic Contents (past 5 years)		
550 gallons	WASTE OIL	YES	9' - NINE FEET

14. Have tanks or pipes leaked in the past? Yes [ ] No [XX]

If yes, describe. _____

15. NFPA methods used for rendering tank inert? Yes [XX] No [ ]

If yes, describe. HYDROBLASTING TANKS - DRY ICE PURGE

16. Laboratories

Name PRECISION ANALYTICAL LABORATORY, INC.

Address 2111 JENNINGS STREET

City SAN FRANCISCO State CA Zip 94124

State Certification No. 211

17. Chemical Methods to be used for Analyzing Samples

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Number
SOIL SAMPLES WATER SAMPLES - IF NECESSARY	SW846	8015 TOTAL PETROLEUM HYDROCARBONS VOC EPA 8240 TOTAL OIL AND GREASE 8010 - HALOGENATED 8020 - B.T.X.

18. Site Safety Plan submitted? Yes [XX] No [ ]

19. Workman's Compensation: Yes [XX] No [ ]

Copy of Certificate enclosed? Yes [X] No [ ]

Name of Insurer SCOTTSDALE INSURANCE AND REPUBLIC INDEMNITY

20. Plot Plan submitted? Yes [X] No [ ]

21. Deposit enclosed? Yes [XX] No [ ]

22. Please forward to this office the following information within 60 days after receipt of sample results.

a) Chain of Custody Sheets

b) Original Signed Laboratory Reports

c) TSD to Generator copies of wastes shipped and received

d) Attachment A summarizing laboratory results

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true. I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I will notify the Department of Environmental Health at least two (2) working days (48 hours) in advance to schedule any required inspections. I understand that site and worker safety are soley the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Signature of Contractor

Name (please type) GEORGE J. WILSON

Signature _____

Date 7/26/88

Signature of Site Owner or Operator

Name (please type) BRUCE and/or JEFF QVALE

Signature _____

Date 7/26/88

NOTES:

1. Any changes in this document must be approved by this Department.
2. Any leaks discovered must be submitted to this office on an underground storage tank unauthorized leak/contamination site report form within 5 days of its discovery.
3. Three (3) copies of this plan must be submitted to this Department. One copy must be at the construction site at all times.
4. A copy of your approved plan must be sent to the landowner.

ATTACHMENT A

SAMPLING RESULTS

Tank or Area	Contaminant	Location & Depth	Results (specify units)

INSTRUCTIONS

2. SITE ADDRESS
Address at which closure or modification is taking place.

5. EPA I.D. NO.
This number may be obtained from the State Department of Health Services, 916/324-1781.

6. CONTRACTOR
Prime contractor for the project.

7. OTHER
List professional consultants here.

12. SAMPLE COLLECTOR
Persons who are collecting samples.

13. SAMPLING INFORMATION
Historic contents - the principal product(s) used in the last 5 years.

Material sampled - i.e., water, oil, sludge, soil, etc.

16. LABORATORIES
Laboratories used for chemical and geotechnical analyses.

17. CHEMICAL METHODS:
All sample collection methods and analyses should conform to EPA or DHS methods.

Contaminant - Specify the chemical to be analyzed.

Sample Preparation Method Number - The means used to prepare the sample prior to analyses - i.e., digestion techniques, solvent extraction, etc. Specify number of method and reference if not an EPA or DHS method.

Analysis Method Number - The means used to analyze the sample - i.e., GC, GC-MS, AA, etc. Specify number of method and reference if not a DHS or EPA method.

NOTE:
Method Numbers are available from certified laboratories.

18. SITE SAFETY PLAN
A plan outlining protective equipment and additional specialized personnel in the event that significant amount of hazardous materials are found. The plan should consider the availability of respirators, respirator cartridges, self-contained breathing apparatus (SCBA) and industrial hygienists.

19. ATTACH COPY OF WORKMAN'S COMPENSATION

20. PLOT PLAN

The plan should consists of a scaled view of the facility at which the tank(s) are located and should include the following information:

a) Scale

b) North Arrow

c) Property Line

d) Location of all Structures

e) Location of all relevant existing equipment including tanks and piping to be removed

f) Streets

g) Underground conduits, sewers, water lines, utilities

h) Existing wells (drinking, monitoring, etc.)

i) Depth to ground water

j) All existing tanks in addition to the ones being pulled

1/88

A C O R D CERTIFICATE OF INSURANCE Date 07/26/88

PRODUCER Oper. ID SA
Cook, Disharoon & Greathouse
P.O. Box 12909
Oakland CA 94604-

This certificate is issued as a matter of information only and confers no rights upon the certificate holder. This certificate does not amend, extend or alter the coverage afforded by the policies below.

INSURED

L & W ENVIRONMENTAL SERVICES
2111 JENNINGS STREET
SAN FRANCISCO CA 94124

COMPANIES AFFORDING COVERAGE

COMPANY LETTER A: SCOTTSDALE INSURANCE
COMPANY LETTER B: REPUBLIC INDEMNITY
COMPANY LETTER C:
COMPANY LETTER D:
COMPANY LETTER E:

COVERAGES

This is to certify that policies of insurance listed below have been issued to the insured named above for the policy period indicated, notwithstanding any requirement, term or condition of any contract or other document with respect to which this certificate may be issued or may pertain, the insurance afforded by the policies described herein is subject to all the terms, exclusions, and conditions of such policies.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	EFF DATE	EXP DATE	ALL LIMITS IN THOUSANDS	
A	GENERAL LIABILITY [X] COMMERCIAL GENERAL LIABILITY [X] [ ] CLAIMS MADE [X] OCCURRENCE [ ] OWNER'S & CONTR. PROTECTIVE [X] BROAD [ ]	GLS 135245	09/23/87 / / / / / / / / / /	09/23/88 / / / / / / / / / /	GENERAL AGGREGATE PRODUCTS-COMP/OPS AGGREGATE PERSONAL&ADVERTISING INJURY EACH OCCURRENCE FIRE DAMAGE (ANY ONE FIRE) MED EXPENSE (ANY ONE PERSON)	1000 1000 1000 1000
	AUTOMOBILE LIABILITY [ ] ANY AUTO [ ] ALL OWNED AUTOS [ ] SCHEDULED AUTOS [ ] HIRED AUTOS [ ] NON-OWNED AUTOS [ ] GARAGE LIABILITY [ ]		/ / / / / / / / / / / / / /	/ / / / / / / / / / / / / /	 CSL BODILY INJURY (PER PERSON) BODILY INJURY (PER ACCIDENT) PROPERTY DAMAGE 	
	EXCESS LIABILITY [ ] UMBRELLA FORM [ ] OTHER THAN UMBRELLA FORM		/ / / /	/ / / /	 EACH OCCURRENCE AGGREGATE	
B	WORKER'S COMPENSATION AND EMPLOYER'S LIABILITY	PC 989445	01/08/88 / /	01/08/89 / /	STATUTORY 1000 (EACH ACCIDENT) 1000 (DISEASE-POLICY LIMIT) 1000 (DISEASE-EACH EMPLOYEE)	
	OTHER		/ / / /	/ / / /		

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/RESTRICTIONS/SPECIAL ITEMS

ALL CALIFORNIA LOCATIONS
CERTIFICATE HOLDER IS NAMED AS ADDITIONAL INSURED

CERTIFICATE HOLDER

ASIAN PACIFIC INDUSTRIES INC.
ANC JEFF & BRUCE QVALE
901 VAN NESS AVE.
SAN FRANCISCO CA 94109

CANCELLATION

Should any of the above described policies be cancelled before the expiration date there the issuing company will endeavor to mail 10 days written notice to the certificate hold named to the left, but failure to mail such notice shall impose no obligation or liabilit of any kind upon the company, its agents or representatives.

AUTHORIZED REPRESENTATIVE

L. & W. ENVIRONMENTAL SERVICES, INC.
2111 JENNINGS STREET (415) 822-4555
SAN FRANCISCO, CA 94124

2162

11-36
1210

July 26 19 83

PAY TO THE ORDER OF Alameda County Dept. of Environmental Health | $ 450.00

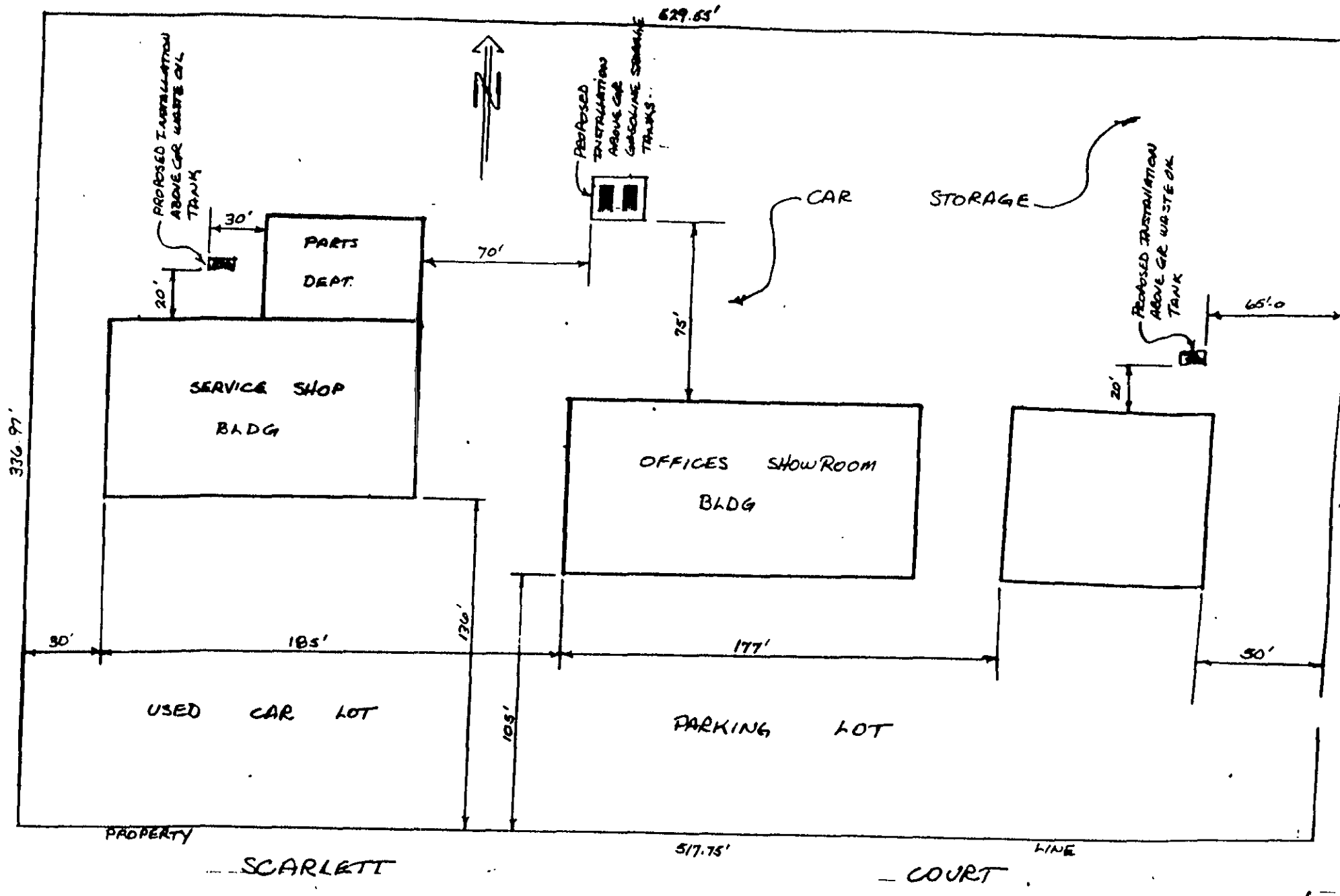
Four Hundred fifty and 00/100 DOLLARS

Bank of America
Marina Branch 0263
P O Box 37001 Rincon Annex
San Francisco, CA 94137

FOR # 9007

⑈002162⑈ ⑆121000358⑆ 02636⑈09298⑈

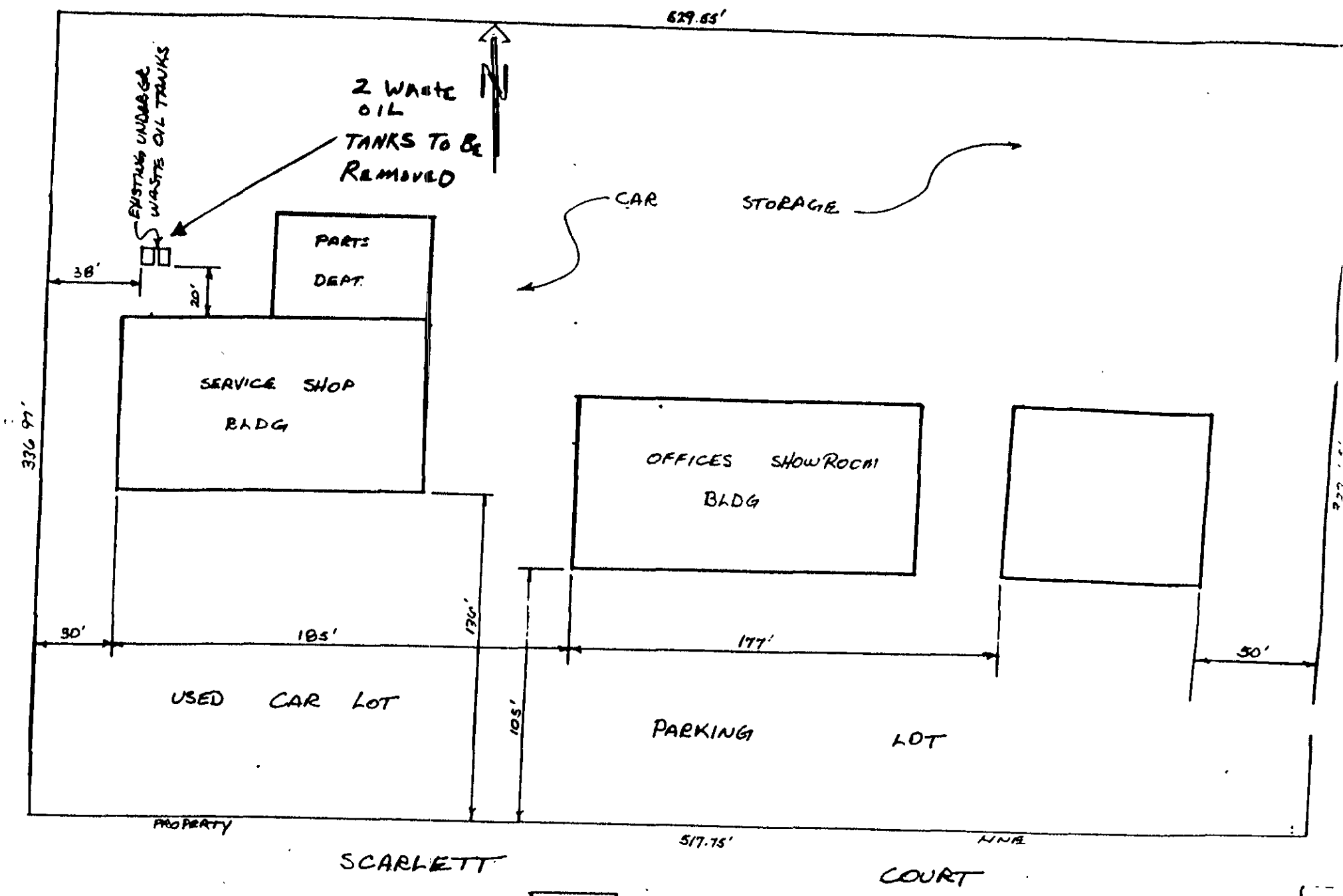
Joan M. Lindau



PROPOSED TANK LOCATION PLAN

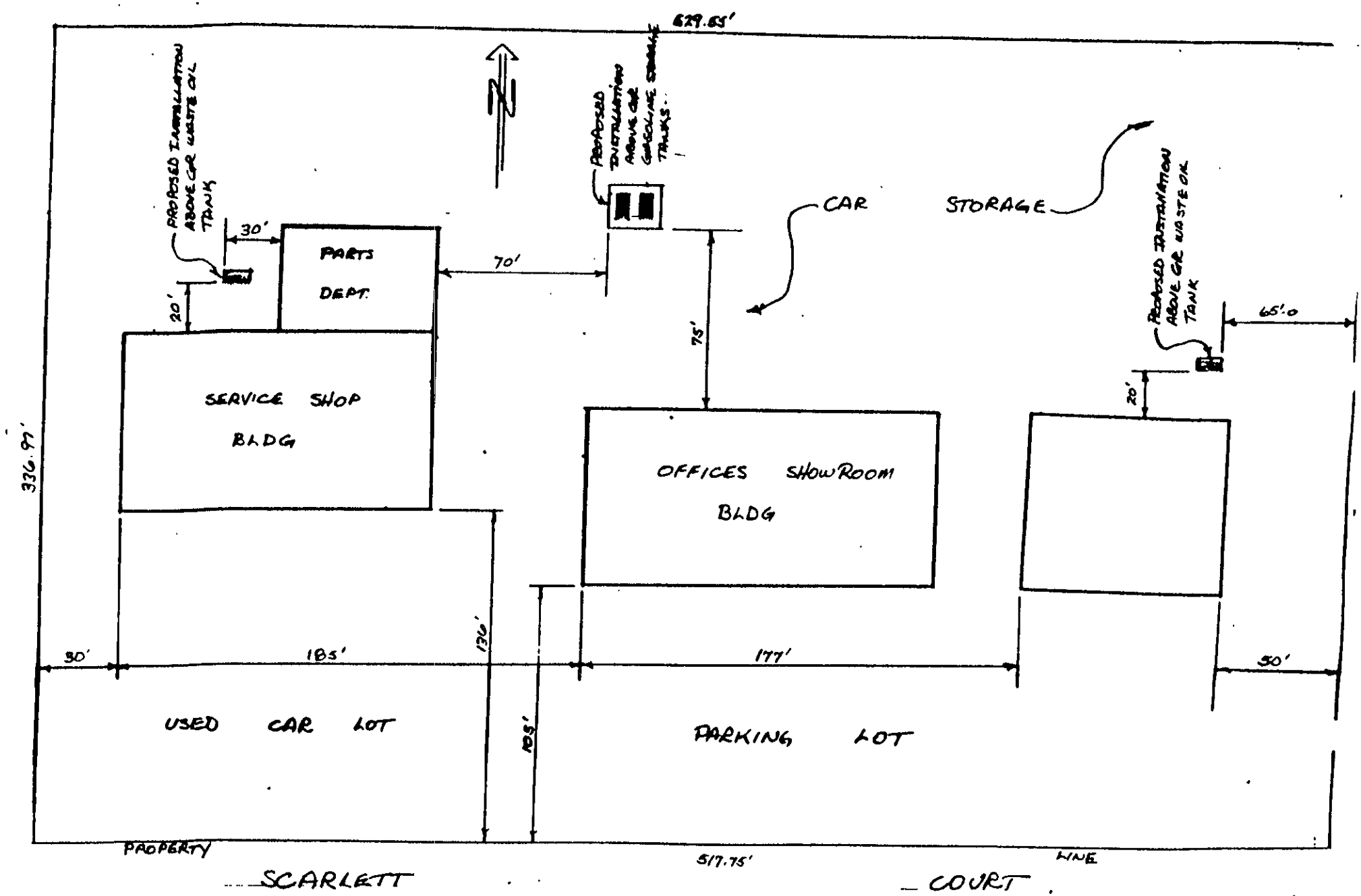
Environmental Services, Inc.

2111 Jennings Street, San Francisco, California 94124-3224, Phone (415) 822-4555



EXISTING TANK LOCATION PLAN

Environmental Services, Inc.
2111 Jennings Street, San Francisco, California 94124-3224, Phone (415) 822-4555



PROPOSED TANK LOCATION PLAN

Environmental Services, Inc.
2111 Jennings Street, San Francisco, California 94124-3224, Phone (415) 822-4555

JOB # 9007

REF./
A/C NO.

COUNTY OF ALAMEDA
OFFICE OF THE AUDITOR-CONTROLLER

DATE: 7/26/88

MISCELLANEOUS RECEIPT

№ 524553

$ 450.00
DOLLARS

removal

RECEIVED FROM: L & W Environmental Svcs Inc San Francisco 94124
211 Jennings St.

FOR: Valley Nissan
6015 Scarlett Ct Dublin 94568

RECEIVED BY: Mrs. Antonette Dunagan

DEPT. NO.:

☐ CASH ☐ PERSONAL/CASHIER'S CHECK/M. O. # 2162 ☐ OTHER: 430-453

110-1 (Rev 10/85) [0134E (08)] 3-Part

Distribution: White - Payor Yellow & Pink - Depart.

STATE OF CALIFORNIA
STATE AND CONSUMER SERVICES AGENCY CONTRACTORS STATE LICENSE BOARD
DEPARTMENT OF
Consumer Affairs

Building Quality

HAZARDOUS SUBSTANCES REMOVAL AND REMEDIAL ACTIONS CERTIFICATION

Pursuant to the provisions of Section 7058.7 of the Business and Professions Code, the Registrar of Contractors does hereby certify that the following qualifying person has successfully completed the hazardous substances removal and remedial actions examination

REGISTRAR OF CONTRACTORS
DEPARTMENT OF CONSUMER AFFAIRS
STATE OF CALIFORNIA

Qualifier: DAVID ALAN MIDDLETON

License No: 507442

Namestyle: LINDSAY AND WILSON ENVIRONMENTAL SERVICES INC.

WITNESS *my hand and official seal this*
25 *day of* JULY, 1988

Registrar of Contractors

This certification is the property of the Registrar of Contractors is not transferable and shall be returned to the Registrar upon demand when suspended revoked or invalidated for any reason

A1545

SITE SAFETY PLAN
FLAMMABLE LIQUID STORAGE TANK REMOVAL

ADMINISTRATIVE INFORMATION

Project No. 9009 Date of Issue 7/26/88

Project Name Valley Nissan

Project Manager Gary Aguiar P.E. Business Unit L&W Environmental Servic

SSO Jim Tracy HSO Gary Aguiar

SITE INFORMATION

Location: 6015 Scarlett Court

Pertinent History: Two 550 gallon waste oil storage tanks.

Material(s) Spilled: No spills. Double-wall tanks, 4 years old.

FIELD ACTIVITIES

Tanks exposed to top - ready for removal. Dougherty Regional Fire Authority Permit for removal obtained. Scheduled for August 5, 1988, removal - soil sampling.

EMERGENCY TELEPHONE NUMBERS

Fire Dept. DRFA 829-2333 Project Mgr. (415) 822-4555

Ambulance Diablo Medical 828-6962 HSO (415) 237-5202

Hospital (415) 830-0770

HOSPITAL NAME, ADDRESS & ROUTE

Name: San Ramon Valley Intercommunity Hospital Address: 2680 Bishp Drive

Route:

AUTHORIZED FIELD PERSONNEL

Jim Tracy - Superintendent Gary Aguiar, Reg. P.E. - Project Manager

Dave Pichett - Soil Chemist (Precision Analytical Laboratory)

Dan Tawzer - Operations Manager

NAME OF SUBCONTRACTORS (Field Work)

Name: Erickson Telephone No. (415) 235-1393

Address: 255 Parr Boulevard Richmond, CA.

Authorized Representative: Larry

Name: Telephone No.

Address:

Authorized Representative:

APPROVALS

Project Manager 7 26 88
Date

HSO 7.26.88
Date

CHSO 7/26/88
Date

LOCATION OF BORING

SEE SITE MAP

JOB NO	CLIENT	LOCATION
	VALLEY NISSAN	DUBLIN

DRILLING METHOD: MOBILE MINUTE-MAN 4" HOLLOW STEM

BORING NO: # 11

SHEET: 1 of 1

SAMPLING METHOD: 1" SPLIT BARREL WITH BRASS LINERS

DRILLING START | FINISH

					TIME	TIME
WATER LEVEL						
TIME						
DATE					DATE	DATE
CASING DEPTH					7/13/88	

DATUM ELEVATION

DRILLING CONTR

BY DATE CHK'D BY

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT. SAMPLER		DEPTH IN FEET	SOIL GRAPH
						0	
						1	
						2	
						3	
						4	
						5	
1" SPLIT						6	
						7	
						8	
						9	
						0	
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	

SURFACE CONDITIONS:

ASPHALT

GREY-BRN SILTY CLAY (CL) SLIGHTLY MOIST. OCCASIONAL COARSE SAND, SOFT (NO ODOR)

TOTAL DEPTH = 6' BLS

REGISTERED PROFESSIONAL ENGINEER
GARY H. AGUIAR
No. C-34262
CIVIL
STATE OF CALIFORNIA

ANALYTICAL RESULTS

Precision Analytical Laboratory, Inc.

[illegible] STREET SAN FRANCISCO CA [illegible] PHONE [illegible]

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Date Received: 7-13-88
Date Reported: 7-21-88
Job #: 70403

VALLEY NISSAN
6015 SCARLETT CT
DUBLIN, CA

TOTAL PETROLEUM HYDROCARBON ANALYSIS
by Modified Method 8015

SAMPLE ID	CONCENTRATION mg/kg	HYDROCARBON
BORING #1 9'	ND<20	N/A
BORING #2 9'	ND<20	N/A
BORING #3 5'	ND<20	N/A
BORING #4 5'	ND<20	N/A
BORING #5 5'	ND<20	N/A
BORING #6 5'	ND<20	N/A

QA/QC: SPIKE RECOVERY AS GASOLINE: 91.7%

Jaime Chow
Laboratory Director

JC/ls

Precision Analytical Laboratory, Inc.

[illegible] BRANNAN STREET SAN FRANCISCO CA 94124-3224 PHONE 415 822 [illegible]

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Date Received: 7/14/88
Date Reported: 7/21/88
Job #: 70404

VALLEY NISSAN & VOLVO
6015 SCARLETT COURT
DUBLIN, CA

TOTAL PETROLEUM HYDROCARBON ANALYSIS
by Modified Method 8015

SAMPLE ID	CONCENTRATION mg/kg	HYDROCARBON
BORING #7 5.5'	ND<20	N/A
BORING #8 5.5'	ND<20	N/A
BORING #9 5.5'	ND<20	N/A
BORING #10 5.5'	ND<20	N/A
BORING #11 5.5'	ND<20	N/A

SPIKE RECOVERY AS GASOLINE: 91.7%

Jaime Chow
Laboratory Director

JC/ls

Precision Analytical Laboratory, Inc.

[illegible] STREET SAN FRANCISCO CA [illegible] PHONE [illegible]

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Date Received: 7-13-88
Date Reported: 7-21-88
Job #: 70403

VALLEY NISSAN
6015 SCARLETT CT
DUBLIN, CA

SAMPLE ID	SULFIDE	PHENOLS (SPOT TEST)
BORING #1 9'	NEGATIVE	NEGATIVE
BORING #2 9'	NEGATIVE	NEGATIVE
BORING #3 5'	170 mg/kg	NEGATIVE
BORING #4 5'	NEGATIVE	NEGATIVE
BORING #5 5'	NEGATIVE	NEGATIVE
BORING #6 5'	TRACE	NEGATIVE

QA/QC: SPIKE RECOVERY AS GASOLINE: 91.7%

Jaime Chow
Laboratory Director

JC/ls

Precision Analytical Laboratory, Inc.

2... B...NGS STREET SAN FRANCISCO CA 94124-3224 PHONE 415 822 [illegible]

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Date Received: 7/14/88
Date Reported: 7/21/88
Job #: 70404

VALLEY NISSAN & VOLVO
6015 SCARLETT COURT
DUBLIN, CA

SAMPLE ID	SULFIDE	PHENOL (SPOT TEST)
BORING #7 5.5'	NEGATIVE	NEGATIVE
BORING #8 5.5'	80 mg/kg	NEGATIVE
BORING #9 5.5'	NEGATIVE	NEGATIVE
BORING #10 5.5'	NEGATIVE	NEGATIVE
BORING #11 5.5'	NEGATIVE	NEGATIVE

Jaime Chow
Laboratory Director

JC/ls

Precision Analytical Laboratory, Inc.

2111 JENNINGS STREET SAN FRANCISCO CA 94124-3022 PHONE 415 822 5649

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Date Received: 7/13/88
Date Reported: 7/21/88
Job #: 70403

VALLEY NISSAN
6015 SCARLETT CT
DUBLIN, CA

PRIORITY POLLUTANTS METALS
3050 / 6010 METHODS
PREP / ANALYSIS

METAL	BORING #1 9'	BORING #2 9'	BORING #3 5'	BORING #4 5'	BORING #5 5'	BORING #6 5'
Tl	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
As	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Mo	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Cr	19	20	16	23	17	20
Sb	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Zn	30	31	28	36	27	30
Cd	4.6	4.7	2.9	5.2	3.7	4.0
Pb	22	19	19	21	16	18
Co	7.3	8.2	7.0	6.5	6.9	6.9
Ni	26	27	22	26	22	24
Be	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Fe	1.8%	1.9%	1.1%	2.0%	1.7%	1.8%
V	23	20	14	22	13	12
Cu	17	18	18	19	15	18
Ag	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Al	1.2%	1.4%	8200	1.5%	1.2%	1.3%
Ba	300	190	230	250	220	99
Se	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Hg	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

[illegible] KINGS STREET SAN FRANCISCO CA 94124-3224 PHONE 415 822 8648

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Date Received: 7/14/88
Date Reported: 7/21/88
Job #: 70404

VALLEY NISSAN & VOLVO
6015 SCARLETT CT
DUBLIN, CA

PRIORITY POLLUTANT METALS
3050 / 6010 METHODS
PREP / ANALYSIS
mg/kg

METAL	BORING #7 5.5'	BORING #8 5.5'	BORING #9 5.5'	BORING #10 5.5'	BORING #11 5.5'
Tl	<5.0	<5.0	<5.0	<5.0	<5.0
As	<5.0	<5.0	<5.0	<5.0	<5.0
Mo	<5.0	<5.0	<5.0	<5.0	<5.0
Cr	12	21	17	18	21
Sb	<5.0	<5.0	<5.0	<5.0	<5.0
Zn	16	35	26	28	22
Cd	2.0	3.9	3.6	4.1	3.5
Pb	11	30	17	18	14
Co	5.2	7.3	6.8	10	7.0
Ni	13	30	18	24	31
Be	<1.0	<1.0	<1.0	<1.0	<1.0
Fe	8800	1.7%	1.7%	2.0%	1.6%
V	9.7	14	20	21	14
Cu	6.6	24	15	24	17
Ag	<5.0	<5.0	<5.0	<5.0	<5.0
Al	7000	1.2%	1.0%	1.2%	7700
Ba	170	220	160	220	130
Se	<5.0	<5.0	<5.0	<5.0	<5.0
Hg	<5.0	<5.0	<5.0	<5.0	<5.0

Jaime Chow
Laboratory Director

CHAIN OF CUSTODY

CHAIN OF CUSTODY RECORD

PROJ. NO. | SAMPLERS: (Signature)

PROJECT NAME AND ADDRESS:

VALLEY NISSAN

2615 Scarlett Court Dublin CA.

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8240	TOTAL OIL & GREASE	TETRAETHYL LEAD	RCRA METALS	REMARKS
#1	7/12/88	1100	X		BORING #1 @ 9'	X			X		X	Soil
#2	7/12/88	1205	X		BORING #2 @ 9'	X			X		X	
#3	7/12/88	1345	X		BORING #3 @ 5'	X			X		X	
#4	7/12/88	1425	X		BORING #4 @ 5'	X			X		X	
#5	7/12/88	1540	X		BORING #5 @ 5'	X			X		X	
#6	7/12/88	1630	X		BORING #6 @ 5'	X			X		X	

ANALYSIS REQUESTED

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
	7/13/88 0852		7/13/88 8:52 AM
	7/13/88 8:53		7/13/88 13
	DATE / TIME		DATE / TIME
	DATE / TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE / TIME

CHAIN OF CUSTODY RECORD

PROJ. NO. 9004

SAMPLERS: (Signature) [signature]

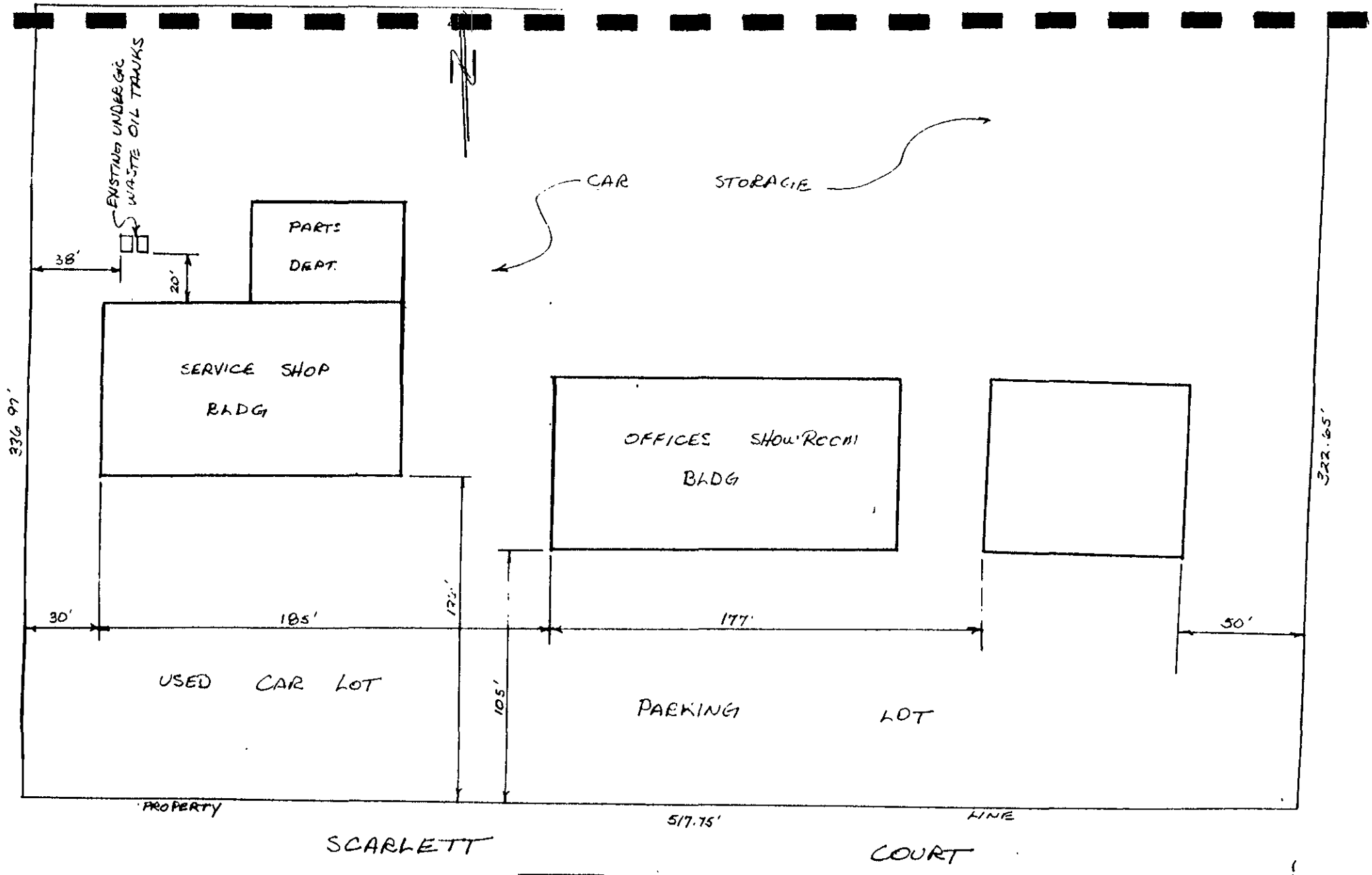
PROJECT NAME AND ADDRESS: Valley Nissan + Volvo, 6015 Scarlett Court, Dublin CA 94568

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION			TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8240	TOTAL OIL & GREASE	TETRAETHYL LEAD	PRIORITY METALS	REMARKS
9004-07	7-13-88	11:48	✓		Boring # 7	5½ Ft	Bottom	✓			X		X	Sulfide, phenols -
9004-08	7-13-88	2:02	X		Boring # 8	5½ Ft	Bottom	X			X		X	
9004-09	7-13-88	2:55	X		Boring # 9	5½ Ft	Bottom	X			X		X	
9004-10	7-13-88	3:50	X		Boring #10	5½ Ft	Bottom	X			X		X	
9004-11	7-13-88	4:30	X		Boring #11	5½ Ft	Bottom	X			X		X	

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	DATE 7-14-88 TIME 810	[signature]	DATE 7/14/88 TIME 08:12
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE TIME

SITE MAP



EXISTING TANK LOCATION PLAN

Environmental Services, Inc.

2111 Jennings Street, San Francisco, California 94124-3224, Phone (415) 822-4555

VALLEY NISSAN
DUBLIN, CA

JOB # 9007
DWG # 9007D1
DATE 7-26-88
SCALE 1/32" = 5'-0

APPENDIX B

CLAYTON'S WORK PLAN SUBMITTED TO ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

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)

26389-1.ltr (mr4)

Clayton Environmental Consultants, Inc.

1252 Quarry Lane • Pleasanton, California 94566 • (415) 426-2600

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

Clayton Project No: 26389.00

November 10, 1989

CONTENTS

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

Clayton Project No: 26389.00

November 10, 1989

Clayton Environmental Consultants, Inc.

1252 Quarry Lane • Pleasanton, California 94566 • (415) 426-2600

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.

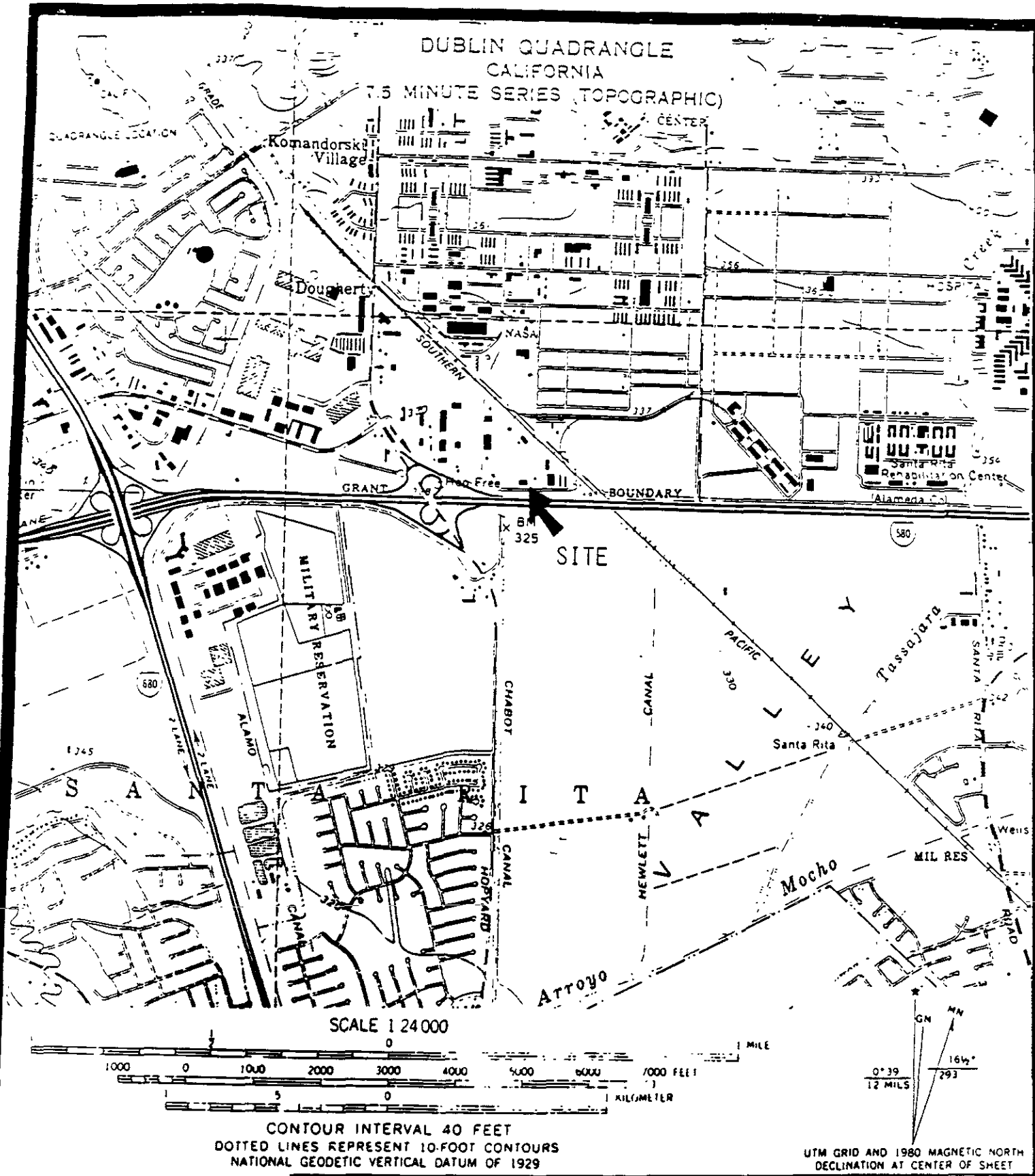
This report prepared by: Dariush Dastmalchi

Dariush Dastmalchi
Geologist

This report reviewed by: Frederick G. Moss

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

FIGURES



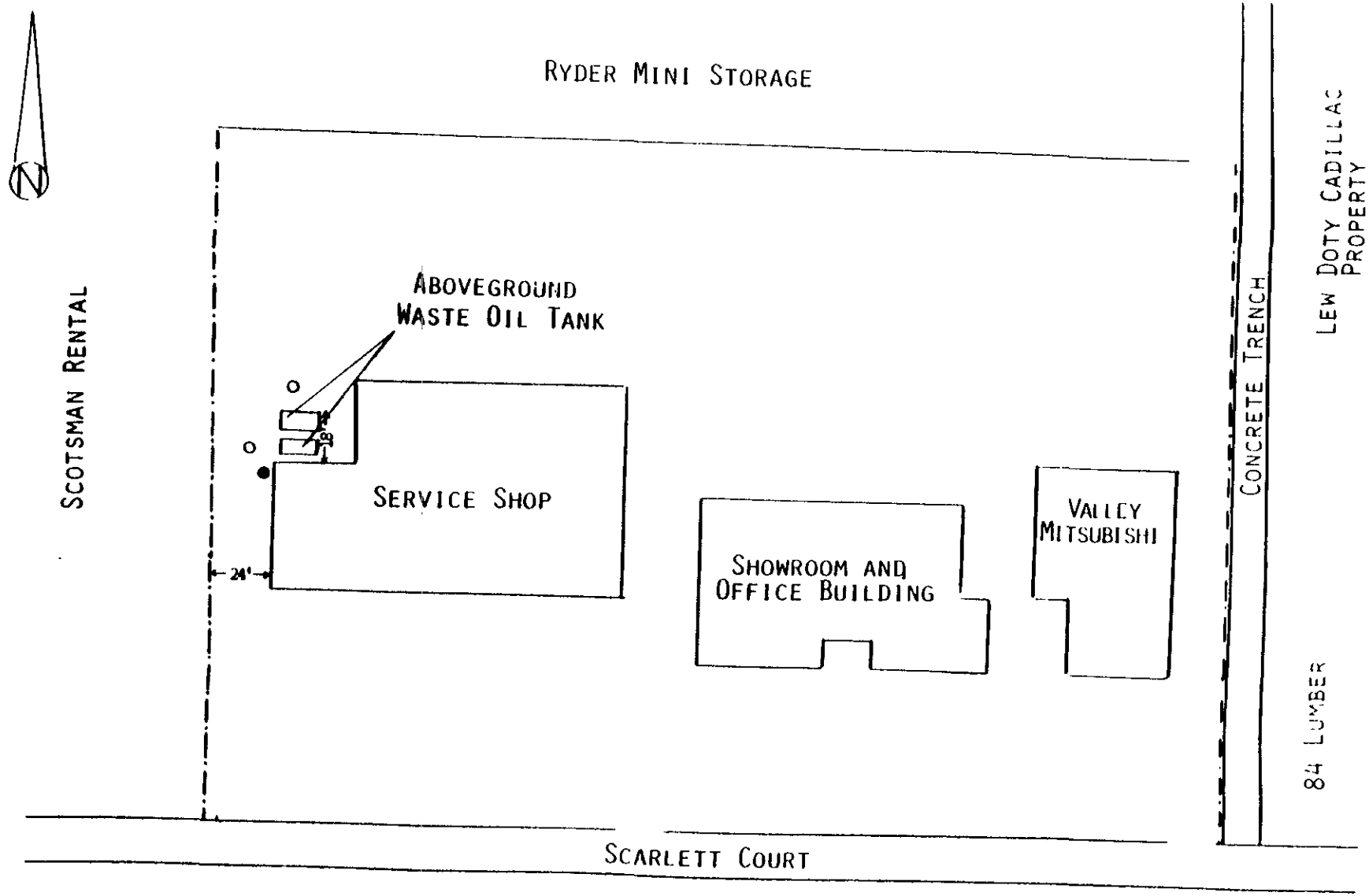
CONTOUR INTERVAL 40 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

UTM GRID AND 1980 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

Clayton Environmental Consultants, Inc.

Figure 1

SITE LOCATION MAP
Valley Nissan/Volvo
Dublin, California



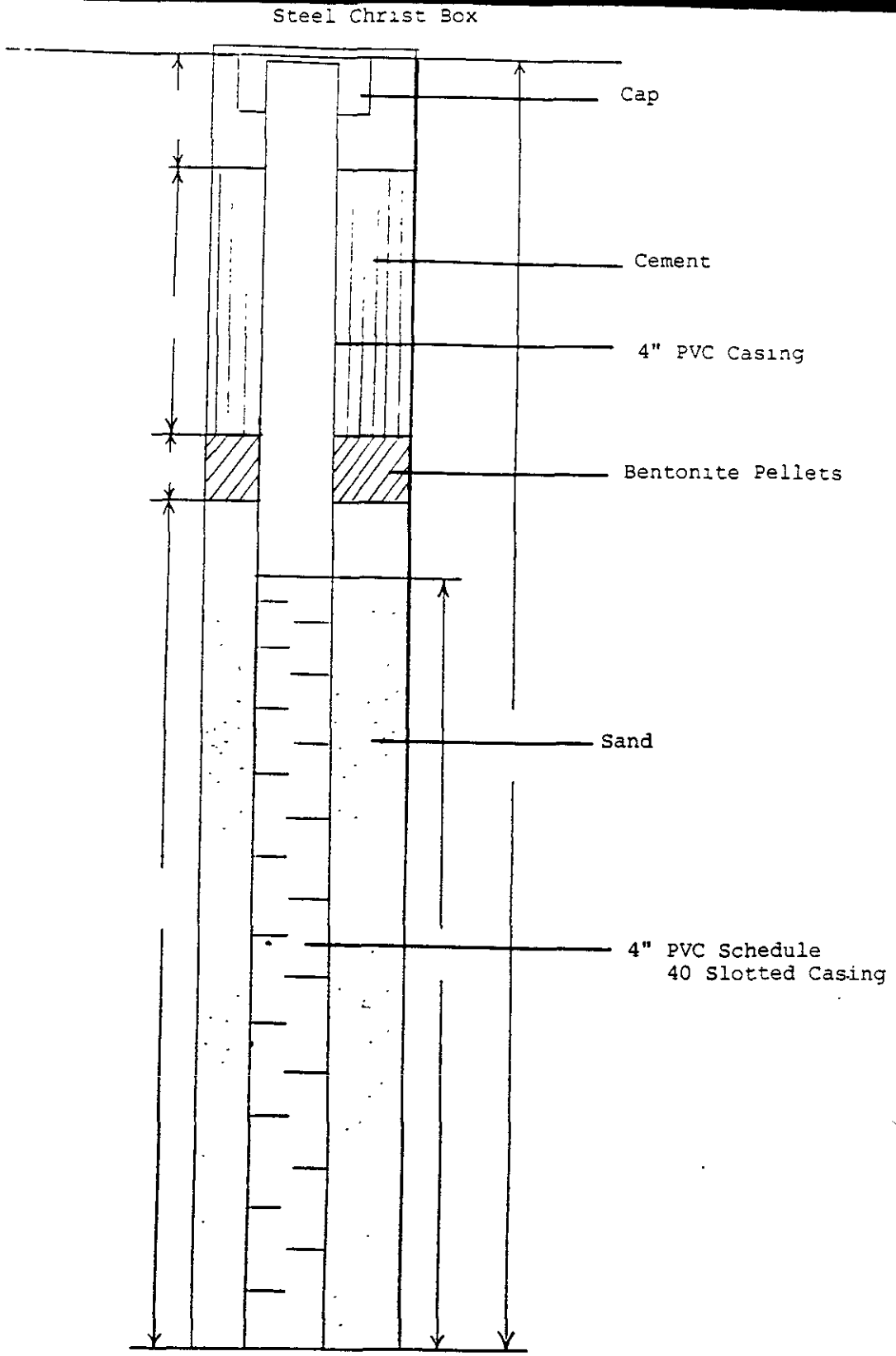
● PROPOSED MONITORING WELL
○ PROPOSED BOREHOLE LOCATION

Map not to Scale

Clayton Environmental Consultants, Inc.

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

Figure



Clayton Environmental Consultants, Inc.	Figure
WELL SCHEMATIC FOR PROPOSED MONITORING WELL	3

APPENDIX C

ZONE 7 WELL PERMIT

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE • PLEASANTON, CALIFORNIA 94566 • (415) 484-2600

GROUNDWATER PROTECTION ORDINANCE PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

1) LOCATION OF PROJECT 6015 Scarlett Court
Dublin CA 94568

2) CLIENT
Name Valley Nissan/Volvo
Address 6015 Scarlett Court Phone 415-829-0800
City Dublin, CA Zip 94568

3) APPLICANT
Name Dariush Dastmalchi
Clayton Environmental Consultants, Inc.
Address 1252 Quarry Lane Phone 415-426-2600
City Pleasanton, CA Zip 94566

4) DESCRIPTION OF PROJECT
Water Well Construction ___ Geotechnical Investigation
Cathodic Protection ___ General ___
Well Destruction ___ Contamination X

5) PROPOSED WATER WELL USE
Domestic ___ Industrial ___ Irrigation ___
Municipal ___ Monitoring X Other ___

6) PROPOSED CONSTRUCTION
Drilling Method:
Mud Rotary ___ Air Rotary ___ Auger X
Cable ___ Other ___

DRILLER'S LICENSE NO. C57-487000

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum
Casing Diameter 4 in. Depth 15 ft.
Surface Seal Depth 5* ft. Number 1

GEOTECHNICAL PROJECTS
Number of Borings 2 Maximum
Hole Diameter 8 in. Depth 15 ft.

7) ESTIMATED STARTING DATE December 4, 1989
ESTIMATED COMPLETION DATE December 5, 1989

8) I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Dariush Dastmalchi Date 11/29/89

FOR OFFICE USE

PERMIT NUMBER 89694
LOCATION NUMBER

PERMIT CONDITIONS

Circled Permit Requirements Apply

(A.) GENERAL
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

(B.) WATER WELLS, INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic, irrigation, and monitoring wells unless a lesser depth is specially approved.

(C.) GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

E. WELL DESTRUCTION. See attached.

* Surface seal depth 10 feet or maximum depth practicable as discussed 28 Nov 89.

Approved Todd N. Wendler Date 28 Nov 89

21989

APPENDIX D

BOREHOLE LITHOLOGIC LOGS AND MONITORING WELL DIAGRAM

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

LOG OF EXPLORATORY BORING

PROJECT NO 26389 00 DATE 12-4-89
CLIENT Valley Nissan/Volvo
LOCATION 6015 Scarlett Court Dublin
LOGGED BY Dariush Dastmalchi DRILLER Aqua Science

BORING No BH-1
Sheet 1 of 1

Field Location of Boring. 9' north of the gasoline tank

Ground Elev ____ Datum: Ground surface

Drilling method 8" hollow stem auger
Hole Dia 8"
Casing Installation Data None

Blow Counts	PID / OVA	DEPTH	SAMPLE	Soil Group Symbol (uscs)	Litho-Graphic Symbol	Water Level / Time / Date	DESCRIPTION
							Asphalt and gravel
5		1'					
7							Greyish green clay with little to no silt, moist, no odor
13		2'					
							Dark grey clay, no odor, moist
		3'		CH			
		4'					
		5'					
		6'					
		7'					
				CL			Grey clay with about 50% silt and sand, moist, no odor or free water
		8'					
							Clay greyish green, no odor, moist
		9'					
							Brownish clay, no odor, no free water, moist
		10'		CH			
		11'					
		12'					
		13'					
							Drilling terminated at 13'
							Backfilled with soil cuttings to 7' and sealed with concrete to the surface

CLAYTON ENVIRONMENTAL CONSULTANTS, INC

LOG OF EXPLORATORY BORING

PROJECT NO 26389 00 DATE 12-4-89
CLIENT Valley Nissan/Volvo
LOCATION 6015 Scarlett Court Dublin
LOGGED BY Dariush Dastmalchi DRILLER Aqua Science

BORING No BH-2
Sheet 1 of 1

Field Location of Boring 12' east of waste oil tank

Ground Elev _____ Datum: _____

Drilling method 8" hollow stem auger
Hole Dia 8"
Casing Installation Data None

Blow Counts	PID / OVA	DEPTH	SAMPLE	Soil Group Symbol (uscs)	Litho-Graphic Symbol	DESCRIPTION
						Water Level / Time / Date
						Asphalt and gravel
		1'				Dark brown clay with little to no silt or sand, moist no odor
		2'				Greyish to green clay, moist, no odor
		3'				Sample refused (not enough sample recovered by sampler)
		4'		CH		
		5'				
		6'				
		7'				No sample recovered, piece of wood in the sampler
		8'				Pieces of wood on the wall of the hole
		9'				Drilling terminated at 8', no water in the well
		10'				Backfilled with grout to surface
		11'				
		12'				
		13'				
		14'				

CLAYTON ENVIRONMENTAL CONSULTANTS INC

LOG OF EXPLORATORY BORING

PROJECT NO 26389 00 DATE 12 4-89 BORING No BH 3

CLIENT Valley Nissan/Volvo Sheet 1

LOCATION 6015 Scarlett Court Subl. ? of 1

LOGGED BY Darrush Dastmalchi DRILLER Aqua Science

Field Location of Boring 1' south of BH-2

Drilling method 8" hollow stem auger

Hole Dia 8"

Ground Elev ____ Datum Ground surface

Casing Installation Data None

Blow Counts	PID / OVA	DEPTH	SAMPLE	Soil Group Symbol (uscs)	Litho-Graphic Symbol	Water Level						
						Time						
						Date						
						DESCRIPTION						
						Asphalt and gravel						
		1'										
						Dark grey clay, no odor, no free water moist						
		2'										
6												
9		3'										
10												
		4'										
		5'										
		6'		CH								
		7'				Dark grey clay with very little to no silt, moist, no free water,						
						no odor						
		8'										
		9'				Light brown clay, moist, no free water, no odor						
		10'										
		11'										
		12'										
		13'										
		14'										
		15'				Drilling Terminated at 15'. Backfilled with soil cuttings to 7' and						
						sealed with concrete to surface						

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

LOG OF EXPLORATORY BORING

PROJECT NO 26389 00 DATE 12-4-89
CLIENT Valley Nissan/Volvo
LOCATION 6015 Scarlett Court, Dublin
LOGGED BY Dariush Dastmalchi DRILLER Aqua Science

BORING No MW-1
Sheet 1 of 1

Field Location of Boring: 8' southeast of waste oil tank; 1.5' east of east wall of the service area

Ground Elev.: . Datum: Ground surface

Drilling method 8" hollow stem auger
Hole Dia 8"
Casing Installation Data See Figure 5

Blow Counts	PID / OVA	DEPTH	SAMPLE	Soil Group Symbol (USCS)	Litho-Graphic Symbol	Water Level / Time / Date	DESCRIPTION
							Asphalt and gravel
		1'					
							Bark brown clay with little silt, moist, no odor
		2'					
		3'					Dark grey clay with little to no silt, highly plastic
		4'					
		5'					
		6'		CH			
		7'					Dark grey clay, no odor, no free water, moist
		8'					
		9'					
		10'					
		11'					
		12'					
		13'					
		14'					
		15'					Total Depth = 15'

WELL DIAGRAM

APPENDIX E

LABORATORY RESULTS OF SOIL, GROUNDWATER SAMPLES, CHAIN-OF-CUSTODY, AND WATER SAMPLING FIELD SURVEY FORMS

Clayton Environmental Consultants, Inc.

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

December 19, 1989

Mr. Dariush Dastmalchi
CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
1252 Quarry Lane
Pleasanton, CA 94566

Client Ref. No. 26389.00
Work Order No. 8912041
Lab Client Code INT_EEP

Dear Mr. Dastmalchi:

Attached is our analytical laboratory report for the samples received on December 4, 1989. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Maryann Gambino, Client Services Representative, at (415) 426-2657.

Sincerely,

Ronald H. Peters, CIH
Manager, Laboratory Services
Western Operations

RHP/dlv
Attachment

EPA METHOD 8010
PURGEABLE HALOCARBONS

Sample I.D.: BH-3-7.5
Client: VALLEY NISSAN

Sample Received: 12/04/89
Client Ref. No.: 26389.00

Sample Analyzed: 12/18/89
Lab Client Code: INT_EEP

Sample Matrix: SOIL
Lab No.: 8912041-02A

Compound	CAS #	Concentration mg/kg	Limit of Detection mg/kg
Chloromethane	74-87-3	ND	0.06
Bromomethane	74-83-9	ND	0.07
Vinyl chloride	75-01-4	ND	0.05
Chloroethane	75-00-3	ND	0.05
Methylene chloride	75-09-2	ND	0.2
1,1-dichloroethene	75-35-4	ND	0.03
1,1-dichloroethane	75-35-3	ND	0.04
Trans-1,2-dichloroethene	156-60-5	ND	0.04
Cis-1,2-dichloroethene	156-59-2	ND	0.04
Chloroform	67-66-3	ND	0.05
1,2-dichloroethane	107-06-2	ND	0.03
1,1,1-trichloroethane	71-55-6	ND	0.05
Carbon tetrachloride	56-23-5	ND	0.06
Bromodichloromethane	75-27-4	ND	0.07
1,2-dichloropropane	78-87-5	ND	0.05
Cis-1,3-dichloropropene	10061-01-5	ND	0.05
Trichloroethene	79-01-6	ND	0.03
Dibromochloromethane	124-48-1	ND	0.06
1,1,2-trichloroethane	79-00-5	ND	0.06
Trans-1,3-dichloropropene	10061-02-6	ND	0.06
2-chloroethylvinylether	100-75-8	ND	0.1
Bromoform	75-25-2	ND	0.07
Tetrachloroethene	127-18-4	ND	0.05
1,1,2,2-tetrachloroethane	79-34-5	ND	0.05
Chlorobenzene	108-90-7	ND	0.07
1,3-dichlorobenzene	541-73-7	ND	0.2
1,2-dichlorobenzene	95-50-1	ND	0.4
1,4-dichlorobenzene	106-46-7	ND	0.4
Dichlorodifluoromethane	75-71-8	ND	0.1
Trichlorofluoromethane	75-69-4	ND	0.04
Freon 113	76-13-1	ND	0.06

ND = Not detected at or above limit of detection

EPA METHOD 8020
PURGEABLE AROMATICS

Sample I.D.: BH-3-7.5
Client: VALLEY NISSAN

Sample Received: 12/04/89
Client Ref. No.: 26389.00

Sample Analyzed: 12/18/89
Lab Client Code: INT_EEP

Sample Matrix: SOIL
Lab No.: 8912041-02A

Compound	CAS #	Concentration mg/kg	Limit of Detection mg/kg
Benzene	71-43-2	ND	0.04
Chlorobenzene	108-90-7	ND	0.03
1,2-dichlorobenzene	95-50-1	ND	0.05
1,3-dichlorobenzene	541-73-7	ND	0.03
1,4-dichlorobenzene	106-46-7	ND	0.05
Ethylbenzene	100-41-4	ND	0.03
Toluene	108-88-3	ND	0.02
Xylenes	1330-20-7	ND	0.04

ND = Not detected at or above limit of detection

Soil Samples of Addl Soil Borings

EPA METHOD 8010
PURGEABLE HALOCARBONS

Sample I.D.: BH-1-7.5
Client: VALLEY NISSAN

Sample Received: 12/04/89
Client Ref. No.: 26389.00

Sample Analyzed: 12/18/89
Lab Client Code: INT_EEP

Sample Matrix: SOIL
Lab No.: 8912041-04A

Compound	CAS #	Concentration mg/kg	Limit of Detection mg/kg
Chloromethane	74-87-3	ND	0.06
Bromomethane	74-83-9	ND	0.07
Vinyl chloride	75-01-4	ND	0.05
Chloroethane	75-00-3	ND	0.05
Methylene chloride	75-09-2	ND	0.2
1,1-dichloroethene	75-35-4	ND	0.03
1,1-dichloroethane	75-35-3	ND	0.04
Trans-1,2-dichloroethene	156-60-5	ND	0.04
Cis-1,2-dichloroethene	156-59-2	ND	0.04
Chloroform	67-66-3	ND	0.05
1,2-dichloroethane	107-06-2	ND	0.03
1,1,1-trichloroethane	71-55-6	ND	0.05
Carbon tetrachloride	56-23-5	ND	0.06
Bromodichloromethane	75-27-4	ND	0.07
1,2-dichloropropane	78-87-5	ND	0.05
Cis-1,3-dichloropropene	10061-01-5	ND	0.05
Trichloroethene	79-01-6	ND	0.03
Dibromochloromethane	124-48-1	ND	0.06
1,1,2-trichloroethane	79-00-5	ND	0.06
Trans-1,3-dichloropropene	10061-02-6	ND	0.06
2-chloroethylvinylether	100-75-8	ND	0.1
Bromoform	75-25-2	ND	0.07
Tetrachloroethene	127-18-4	ND	0.05
1,1,2,2-tetrachloroethane	79-34-5	ND	0.05
Chlorobenzene	108-90-7	ND	0.07
1,3-dichlorobenzene	541-73-7	ND	0.2
1,2-dichlorobenzene	95-50-1	ND	0.4
1,4-dichlorobenzene	106-46-7	ND	0.4
Dichlorodifluoromethane	75-71-8	ND	0.1
Trichlorofluoromethane	75-69-4	ND	0.04
Freon 113	76-13-1	ND	0.06

ND = Not detected at or above limit of detection

EPA METHOD 8020
PURGEABLE AROMATICS

Sample I.D.: BH-1-7.5
Client: VALLEY NISSAN

Sample Received: 12/04/89
Client Ref. No.: 26389.00

Sample Analyzed: 12/18/89
Lab Client Code: INT_EEP

Sample Matrix: SOIL
Lab No.: 8912041-04A

Compound	CAS #	Concentration mg/kg	Limit of Detection mg/kg
Benzene	71-43-2	ND	0.04
Chlorobenzene	108-90-7	ND	0.03
1,2-dichlorobenzene	95-50-1	ND	0.05
1,3-dichlorobenzene	541-73-7	ND	0.03
1,4-dichlorobenzene	106-46-7	ND	0.05
Ethylbenzene	100-41-4	ND	0.03
Toluene	108-88-3	ND	0.02
Xylenes	1330-20-7	ND	0.04

ND = Not detected at or above limit of detection

EPA METHOD 8010
PURGEABLE HALOCARBONS

Sample I.D.: MW-1-7.5
Client: VALLEY NISSAN

Sample Received: 12/04/89
Client Ref. No.: 26389.00

Sample Analyzed: 12/18/89
Lab Client Code: INT_EEP

Sample Matrix: SOIL
Lab No.: 8912041-06A

Compound	CAS #	Concentration mg/kg	Limit of Detection mg/kg
Chloromethane	74-87-3	ND	0.06
Bromomethane	74-83-9	ND	0.07
Vinyl chloride	75-01-4	ND	0.05
Chloroethane	75-00-3	ND	0.05
Methylene chloride	75-09-2	ND	0.2
1,1-dichloroethene	75-35-4	ND	0.03
1,1-dichloroethane	75-35-3	ND	0.04
Trans-1,2-dichloroethene	156-60-5	ND	0.04
Cis-1,2-dichloroethene	156-59-2	ND	0.04
Chloroform	67-66-3	ND	0.05
1,2-dichloroethane	107-06-2	ND	0.03
1,1,1-trichloroethane	71-55-6	ND	0.05
Carbon tetrachloride	56-23-5	ND	0.06
Bromodichloromethane	75-27-4	ND	0.07
1,2-dichloropropane	78-87-5	ND	0.05
Cis-1,3-dichloropropene	10061-01-5	ND	0.05
Trichloroethene	79-01-6	ND	0.03
Dibromochloromethane	124-48-1	ND	0.06
1,1,2-trichloroethane	79-00-5	ND	0.06
Trans-1,3-dichloropropene	10061-02-6	ND	0.06
2-chloroethylvinylether	100-75-8	ND	0.1
Bromoform	75-25-2	ND	0.07
Tetrachloroethene	127-18-4	ND	0.05
1,1,2,2-tetrachloroethane	79-34-5	ND	0.05
Chlorobenzene	108-90-7	ND	0.07
1,3-dichlorobenzene	541-73-7	ND	0.2
1,2-dichlorobenzene	95-50-1	ND	0.4
1,4-dichlorobenzene	106-46-7	ND	0.4
Dichlorodifluoromethane	75-71-8	ND	0.1
Trichlorofluoromethane	75-69-4	ND	0.04
Freon 113	76-13-1	ND	0.06

ND = Not detected at or above limit of detection

EPA METHOD 8020
PURGEABLE AROMATICS

Sample I.D.: MW-1-7.5
Client: VALLEY NISSAN

Sample Received: 12/04/89
Client Ref. No.: 26389.00

Sample Analyzed: 12/18/89
Lab Client Code: INT_EEP

Sample Matrix: SOIL
Lab No.: 8912041-06A

Compound	CAS #	Concentration mg/kg	Limit of Detection mg/kg
Benzene	71-43-2	ND	0.04
Chlorobenzene	108-90-7	ND	0.03
1,2-dichlorobenzene	95-50-1	ND	0.05
1,3-dichlorobenzene	541-73-7	ND	0.03
1,4-dichlorobenzene	106-46-7	ND	0.05
Ethylbenzene	100-41-4	ND	0.03
Toluene	108-88-3	ND	0.02
Xylenes	1330-20-7	ND	0.04

ND = Not detected at or above limit of detection

EPA METHOD 8010
PURGEABLE HALOCARBONS

Sample I.D.: METHOD BLANK
Client: VALLEY NISSAN

Sample Received: 12/04/89
Client Ref. No.: 26389.00

Sample Analyzed: 12/18/89
Lab Client Code: INT_EEP

Sample Matrix: SOIL
Lab No.: 8912041-07A

Compound	CAS #	Concentration mg/kg	Limit of Detection mg/kg
Chloromethane	74-87-3	ND	0.06
Bromomethane	74-83-9	ND	0.07
Vinyl chloride	75-01-4	ND	0.05
Chloroethane	75-00-3	ND	0.05
Methylene chloride	75-09-2	ND	0.2
1,1-dichloroethene	75-35-4	ND	0.03
1,1-dichloroethane	75-35-3	ND	0.04
Trans-1,2-dichloroethene	156-60-5	ND	0.04
Cis-1,2-dichloroethene	156-59-2	ND	0.04
Chloroform	67-66-3	ND	0.05
1,2-dichloroethane	107-06-2	ND	0.03
1,1,1-trichloroethane	71-55-6	ND	0.05
Carbon tetrachloride	56-23-5	ND	0.06
Bromodichloromethane	75-27-4	ND	0.07
1,2-dichloropropane	78-87-5	ND	0.05
Cis-1,3-dichloropropene	10061-01-5	ND	0.05
Trichloroethene	79-01-6	ND	0.03
Dibromochloromethane	124-48-1	ND	0.06
1,1,2-trichloroethane	79-00-5	ND	0.06
Trans-1,3-dichloropropene	10061-02-6	ND	0.06
2-chloroethylvinylether	100-75-8	ND	0.1
Bromoform	75-25-2	ND	0.07
Tetrachloroethene	127-18-4	ND	0.05
1,1,2,2-tetrachloroethane	79-34-5	ND	0.05
Chlorobenzene	108-90-7	ND	0.07
1,3-dichlorobenzene	541-73-7	ND	0.2
1,2-dichlorobenzene	95-50-1	ND	0.4
1,4-dichlorobenzene	106-46-7	ND	0.4
Dichlorodifluoromethane	75-71-8	ND	0.1
Trichlorofluoromethane	75-69-4	ND	0.04
Freon 113	76-13-1	ND	0.06

ND = Not detected at or above limit of detection

EPA METHOD 8020
PURGEABLE AROMATICS

Sample I.D.: METHOD BLANK
Client: VALLEY NISSAN

Sample Received: 12/04/89
Client Ref. No.: 26389.00

Sample Analyzed: 12/18/89
Lab Client Code: INT_EEP

Sample Matrix: SOIL
Lab No.: 8912041-07A

Compound	CAS #	Concentration mg/kg	Limit of Detection mg/kg
Benzene	71-43-2	ND	0.04
Chlorobenzene	108-90-7	ND	0.03
1,2-dichlorobenzene	95-50-1	ND	0.05
1,3-dichlorobenzene	541-73-7	ND	0.03
1,4-dichlorobenzene	106-46-7	ND	0.05
Ethylbenzene	100-41-4	ND	0.03
Toluene	108-88-3	ND	0.02
Xylenes	1330-20-7	ND	0.04

ND = Not detected at or above limit of detection

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015 (MODIFIED)
(MICRO EXTRACTION)

Sample I.D.: BH-3-7.5

Client: VALLEY NISSAN

Sample Received: 12/04/89
Sample Extracted: 12/15/89
Sample Analyzed: 12/15/89

Client Ref. No.: 26389.00

Lab Client Code: INT_EEP

Sample Matrix: SOIL

Lab No.: 8912041-02A

Total Hydrocarbons as	Concentration mg/kg	Limit of Detection mg/kg
Gasoline	ND	10
Diesel	ND	10
Oil	ND	40

NA = Not analyzed
ND = Not detected at or above limit of detection

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015 (MODIFIED)
(MICRO EXTRACTION)

Sample I.D.: BH-1-7.5

Client: VALLEY NISSAN

Sample Received: 12/04/89
Sample Extracted: 12/15/89
Sample Analyzed: 12/15/89

Client Ref. No.: 26389.00

Lab Client Code: INT_EEP

Sample Matrix: SOIL

Lab No.: 8912041-04A

Total Hydrocarbons as	Concentration mg/kg	Limit of Detection mg/kg
Gasoline	ND	10
Diesel	ND	10
Oil	ND	40

NA = Not analyzed
ND = Not detected at or above limit of detection

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015 (MODIFIED)
(MICRO EXTRACTION)

Sample I.D.: MW-1-7.5

Client: VALLEY NISSAN

Sample Received: 12/04/89
Sample Extracted: 12/15/89
Sample Analyzed: 12/15/89

Client Ref. No.: 26389.00

Lab Client Code: INT_EEP

Sample Matrix: SOIL

Lab No.: 8912041-06A

Total Hydrocarbons as	Concentration mg/kg	Limit of Detection mg/kg
Gasoline	ND	10
Diesel	ND	10
Oil	ND	40

NA = Not analyzed
ND = Not detected at or above limit of detection

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015 (MODIFIED)
(MICRO EXTRACTION)

Sample I.D.: METHOD BLANK

Client: VALLEY NISSAN

Sample Received: 12/04/89
Sample Extracted: 12/15/89
Sample Analyzed: 12/15/89

Client Ref. No.: 26389.00

Lab Client Code: INT_EEP

Sample Matrix: SOIL

Lab No.: 8912041-07A

Total Hydrocarbons as	Concentration mg/kg	Limit of Detection mg/kg
Gasoline	ND	10
Diesel	ND	10
Oil	ND	40

NA = Not analyzed
ND = Not detected at or above limit of detection

INORGANIC LABORATORY ANALYSES

Sample I.D.:	See Below	Client:	VALLEY NISSAN
Sample Received:	12/07/89	Client Ref. No.:	26389.00
Sample Analyzed:	12/13/89	Lab Client Code:	INT_EEP
Sample Matrix:	Soil	Lab No.:	8912041

Batch Sub. No.	Sample Identification	Hydrocarbons (mg/kg)
-02	BH-3-7.5	<10
-04	BH-1-7.5	<10
-06	MW-1-7.5	<10
-MB	Method Blank	<10

Limit of detection: 10

Method Reference: Std. Method 503E

< = less than, below limit of detection

INORGANIC LABORATORY ANALYSES

Sample I.D.:	See Below	Client:	VALLEY NISSAN
Sample Received:	12/07/89	Client Ref. No.:	26389.00
Sample Analyzed:	12/12/89	Lab Client Code:	INT_EEP
Sample Matrix:	Soil	Lab No.:	8912041

Batch Sub. No.	Sample Identification	Total Petroleum Hydrocarbons (mg/kg)
-02	BH-3-7.5	<10
-MB	Method Blank	<10

Limit of detection: 10

Method Reference: EPA 418.1 (Modified)

< = less than, below limit of detection

Clayton ENVIRONMENTAL CONSULTANTS

A Marsh & McLennan Company

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Clayton Use Only	Page 1 of 3	
Project No.	26389.00	
Batch No.	89120	
Client No.	0799	
Date Received	12/4/89	By TS
Date Logged In	12/5/89	By

SEND INVOICE TO

Purchase Order No.: | Client Job No.:

Name:

Company: Valley Nissan / Volvo | Dept.: EE

Address:

City, State, Zip:

REPORT RESULTS TO

Name: Dariush Dastmalchi | Title: Geologist

Company: Valley Nissan/Volvo | Dept.: EE

Mailing Address:

City, State, Zip:

Telephone No.: | Telefax No.:

Date Results Required: 12/18/89

Rush Charges Authorized? ☐ Yes ☒ No

Special Instructions: (method, limit of detection, phone results, rush results, etc.)

* 10 ppm D.L.

* Explanation of Preservative:

+ BH-3-2.5, BH-1-2.5 and MW-1-3 on hold

ANALYSIS REQUESTED

(Enter an 'X' in the box below to indicate request; Enter a 'P' if Preservative added*)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	MATRIX/ MEDIA	AIR VOLUME (specify units)	Number of Containers	6010	8020	8015 (Gasoline & Diesel)*	O&G 503	FOR LAB USE ONLY
MW-1-3+	12-4-89	Soil			X				QSA
						X			
							X		
								X	
MW-1-7.5					X				QoA
						X			
							X		
								X	

CHAIN OF CUSTODY (if required)

Relinquished by: [signature] | Date/Time 12/4/89 4:20pm

Relinquished by: | Date/Time

Method of Shipment:

Received by: | Date/Time

Received at lab by: Terry Salvo | Date/Time 12/4/89 4:20pm

Sample condition upon receipt:

Authorized by: _____ Date _____

(Client Signature Must Accompany Request)

Please return completed form and samples to one of the Clayton Environmental Consultants, Inc. labs listed below:

22345 Roethel Drive
Novi, MI 48050
(313) 344-1770

Raritan Center
160 Fieldcrest Ave.
Edison, NJ 08837
(201) 225-6040

400 Chastain Center Blvd., N.W.
Suite 490
Kennesaw, GA 30144
(404) 499-7500

1252 Quarry Lane
Pleasanton, CA 94566
(415) 426-2600

DISTRIBUTION:
WHITE - Clayton Laboratory
YELLOW - Clayton Accounting
PINK - Client Retains

Clayton ENVIRONMENTAL CONSULTANTS

A Marsh & McLennan Company

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Clayton Use Only	Page 2 of 3	
Project No.	26389.00	
Batch No.	891203	
Client No.	0799	
Date Received	12/4/89	By TS
Date Logged In	12/5/89	By

Purchase Order No. | Client Job No.

SEND INVOICE TO
Name
Company Valley Nissan/Valeo Dept. EE
Address
City, State, Zip

REPORT RESULTS TO
Name Dariush Dastmalchi Title Geologist
Company Valley Nissan/Valeo Dept. EE
Mailing Address
City, State, Zip
Telephone No. | Telefax No.

Date Results Required: 12/18/89

Rush Charges Authorized? ☐ Yes ☒ No

Special Instructions: (method, limit of detection, phone results, rush results, etc.)

* 10ppm D.L.

* Explanation of Preservative:

ANALYSIS REQUESTED
(Enter an 'X' in the box below to indicate request; Enter a 'P' if Preservative added*)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	MATRIX/ MEDIA	AIR VOLUME (specify units)	Number of Containers	8010	8020	8015* Gasoline Diesel	418.1 5030	FOR LAB USE ONLY
BH-1-2.5	12-4-89	Soil			X	X	X	X	08A
BH-1-7.5					X	X	X	X	08A

CHAIN OF CUSTODY (if required)

Relinquished by: Dariush Dastmalchi Date/Time 12/4/89 1:52
Relinquished by: Date/Time
Method of Shipment:

Received by:
Received at lab by: Terry Dalso Date/Time 12/4/89 4:20 pm
Sample condition upon receipt:

Authorized by: _____ Date _____
(Client Signature Must Accompany Request)

Please return completed form and samples to one of the Clayton Environmental Consultants, Inc. labs listed below:

22345 Roethel Drive
Novi, MI 48050
(313) 344-1770

Raritan Center
160 Fieldcrest Ave.
Edison, NJ 08837
(201) 225-6040

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Suite 490
Kennesaw, GA 30144
(404) 499-7500

1252 Quarry Lane
Pleasanton, CA 94566
(415) 426-2600

DISTRIBUTION:
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Clayton

ENVIRONMENTAL CONSULTANTS

A Marsh & McLennan Company

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Clayton Use Only	Page 3 of 3
Project No.	26389.00
Batch No.	8912041
Client No.	0799
Date Received	12/4/89 By TS
Date Logged In	12/5/89 By N

Purchase Order No.

Client Job No.

SEND INVOICE TO
- Name: Valley Nelson/Valvo
- Company:
- Dept. EE
- Address:
- City, State, Zip:

REPORT RESULTS TO
- Name: Dariush Dastmalchi
- Title: Geologist
- Company: Valley Nelson/Valvo
- Dept. EE
- Mailing Address:
- City, State, Zip:
- Telephone No.:
- Telefax No.:

Date Results Required: 12/18/89

Rush Charges Authorized? ☐ Yes ☒ No

Special Instructions: (method, limit of detection, phone results, rush results, etc.)

* Explanation of Preservative: *10 ppm D.L.

ANALYSIS REQUESTED
(Enter an 'X' in the box below to indicate request; Enter a 'P' if Preservative added*)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	MATRIX/ MEDIA	AIR VOLUME (specify units)	Number of Containers	8010	8020	8015 (Gasoline/Diesel)*	OEG503E	418.1						FOR LAB USE ONLY
BH-3-2.5 *	12-4-89	Soil			X										01A
↓	↓	↓				X									
							X								
↓								X							
BH-3-7.5					X										02A
↓						X									
							X								
↓								X							
↓	↓	↓							X						

CHAIN OF CUSTODY (if required)

Relinquished by: Dariush Dastmalchi	Date/Time 12/4/89 4:00	Received by:	Date/Time
Relinquished by:	Date/Time	Received at lab by: Terry Salio	Date/Time 12/4/89 4:20pm
Method of Shipment:		Sample condition upon receipt:	

Authorized by: ______________________ Date ________

(Client Signature Must Accompany Request)

Please return completed form and samples to one of the Clayton Environmental Consultants, Inc. labs listed below:

22345 Roethel Drive
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(404) 499-7500

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(415) 426-2600

DISTRIBUTION:
- WHITE - Clayton Laboratory
- YELLOW - Clayton Accounting
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7/89 20K

Clayton Environmental Consultants, Inc.

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

December 27, 1989

Mr. Dariush Dastmalchi
CLAYTON ENVIRONMENTAL CONSULTANTS
1252 Quarry Lane
Pleasanton, CA 94566

Client Ref. No. 26389.00
Work Order No. 8912129
Lab Client Code INT_EEP

Dear Mr. Dastmalchi:

Attached is our analytical laboratory report for the samples received on December 11, 1989. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Maryann Gambino, Client Services Representative, at (415) 426-2657.

Sincerely,

Ronald H. Peters, CIH
Manager, Laboratory Services
Western Operations

RHP/tb
Attachment

EPA METHOD 601
PURGEABLE HALOCARBONS

Sample I.D.: MW-1 Client: VALLEY NIS

Sample Received: 12/11/89 Client Ref. No.: 2

Sample Analyzed: 12/18/89 Lab Client Code: J

Sample Matrix: WATER Lab No.: 8912129-01E

Analysis

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Chloromethane	74-87-3	ND	0.6
Bromomethane	74-83-9	ND	0.7
Vinyl chloride	75-01-4	ND	0.5
Chloroethane	75-00-3	ND	0.5
Methylene chloride	75-09-2	ND	2
1,1-dichloroethene	75-35-4	ND	0.2
1,1-dichloroethane	75-35-3	0.5	0.4
Trans-1,2-dichloroethene	156-60-5	ND	0.4
Cis-1,2-dichloroethene	156-59-2	0.4	0.4
Chloroform	67-66-3	ND	0.5
1,2-dichloroethane	107-06-2	ND	0.3
1,1,1-trichloroethane	71-55-6	ND	0.5
Carbon tetrachloride	56-23-5	ND	0.6
Bromodichloromethane	75-27-4	ND	0.7
1,2-dichloropropane	78-87-5	ND	0.5
Cis-1,3-dichloropropene	10061-01-5	ND	0.5
Trichloroethene	79-01-6	ND	0.3
Dibromochloromethane	124-48-1	ND	0.6
1,1,2-trichloroethane	79-00-5	ND	0.6
Trans-1,3-dichloropropene	10061-02-6	ND	0.6
2-chloroethylvinylether	100-75-8	ND	1
Bromoform	75-25-2	ND	0.7
Tetrachloroethene	127-18-4	ND	0.5
1,1,2,2-tetrachloroethane	79-34-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.7
1,3-dichlorobenzene	541-73-7	ND	2
1,2-dichlorobenzene	95-50-1	ND	4
1,4-dichlorobenzene	106-46-7	ND	4
Dichlorodifluoromethane	75-71-8	ND	1
Trichlorofluoromethane	75-69-4	ND	0.4
Freon 113	76-13-1	ND	0.6

ND = Not detected at or above limit of detection

EPA METHOD 602
PURGEABLE AROMATICS

Sample I.D.: MW-1

Client: VALLEY NISSAN

Sample Received: 12/11/89

Client Ref. No.: 26389.00

Sample Analyzed: 12/18/89

Lab Client Code: INT_EEP

Sample Matrix: WATER

Lab No.: 8912129-01E

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Benzene	71-43-2	ND	0.4
Chlorobenzene	108-90-7	ND	0.3
1,2-dichlorobenzene	95-50-1	ND	0.5
1,3-dichlorobenzene	541-73-7	ND	0.3
1,4-dichlorobenzene	106-46-7	ND	0.5
Ethylbenzene	100-41-4	ND	0.3
Toluene	108-88-3	ND	0.3
Xylenes	1330-20-7	ND	0.4

ND = Not detected at or above limit of detection

EPA METHOD 601
PURGEABLE HALOCARBONS

Sample I.D.: METHOD BLANK
Client: VALLEY NISSAN

Sample Received: 12/11/89
Client Ref. No.: 26389.00

Sample Analyzed: 12/18/89
Lab Client Code: INT_EEP

Sample Matrix: WATER
Lab No.: 8912129-03A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Chloromethane	74-87-3	ND	0.6
Bromomethane	74-83-9	ND	0.7
Vinyl chloride	75-01-4	ND	0.5
Chloroethane	75-00-3	ND	0.5
Methylene chloride	75-09-2	ND	2
1,1-dichloroethene	75-35-4	ND	0.2
1,1-dichloroethane	75-35-3	ND	0.4
Trans-1,2-dichloroethene	156-60-5	ND	0.4
Cis-1,2-dichloroethene	156-59-2	ND	0.4
Chloroform	67-66-3	ND	0.5
1,2-dichloroethane	107-06-2	ND	0.3
1,1,1-trichloroethane	71-55-6	ND	0.5
Carbon tetrachloride	56-23-5	ND	0.6
Bromodichloromethane	75-27-4	ND	0.7
1,2-dichloropropane	78-87-5	ND	0.5
Cis-1,3-dichloropropene	10061-01-5	ND	0.5
Trichloroethene	79-01-6	ND	0.3
Dibromochloromethane	124-48-1	ND	0.6
1,1,2-trichloroethane	79-00-5	ND	0.6
Trans-1,3-dichloropropene	10061-02-6	ND	0.6
2-chloroethylvinylether	100-75-8	ND	1
Bromoform	75-25-2	ND	0.7
Tetrachloroethene	127-18-4	ND	0.5
1,1,2,2-tetrachloroethane	79-34-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.7
1,3-dichlorobenzene	541-73-7	ND	2
1,2-dichlorobenzene	95-50-1	ND	4
1,4-dichlorobenzene	106-46-7	ND	4
Dichlorodifluoromethane	75-71-8	ND	1
Trichlorofluoromethane	75-69-4	ND	0.4
Freon 113	76-13-1	ND	0.6

ND = Not detected at or above limit of detection

EPA METHOD 602
PURGEABLE AROMATICS

Sample I.D.: METHOD BLANK
Client: VALLEY NISSAN

Sample Received: 12/11/89
Client Ref. No.: 26389.00

Sample Analyzed: 12/18/89
Lab Client Code: INT_EEP

Sample Matrix: WATER
Lab No.: 8912129-03A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Benzene	71-43-2	ND	0.4
Chlorobenzene	108-90-7	ND	0.3
1,2-dichlorobenzene	95-50-1	ND	0.5
1,3-dichlorobenzene	541-73-7	ND	0.3
1,4-dichlorobenzene	106-46-7	ND	0.5
Ethylbenzene	100-41-4	ND	0.3
Toluene	108-88-3	ND	0.3
Xylenes	1330-20-7	ND	0.4

ND = Not detected at or above limit of detection

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015 (MODIFIED)
(MICRO EXTRACTION)

Sample I.D.:	MW-1	Client:	VALLEY NISSAN
Sample Received:	12/11/89	Client Ref. No.:	26389.00
Sample Analyzed:	12/21/89	Lab Client Code:	INT_EEP
Sample Matrix:	Water	Lab No.:	8912129-01

Total Hydrocarbons as	Concentration mg/L (ppm)	Limit of Detection mg/L (ppm)
Gasoline	ND	10
Diesel	ND	10

ND = Not detected at or above limit of detection.

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015 (MODIFIED)
(MICRO EXTRACTION)

Sample I.D.:	Method Blank	Client:	VALLEY NISSAN
Sample Received:		Client Ref. No.:	26389.00
Sample Analyzed:	12/21/89	Lab Client Code:	INT_EEP
Sample Matrix:	Water	Lab No.:	8912129-MB

Total Hydrocarbons as	Concentration mg/L (ppm)	Limit of Detection mg/L (ppm)
Gasoline	ND	10
Diesel	ND	10

ND = Not detected at or above limit of detection.

INORGANIC LABORATORY ANALYSES

Sample I.D.:	See below	Client:	VALLEY NISSAN
Sample Received:	12/11/89	Client Ref. No.:	26389.00
Sample Analyzed:	12/21/89	Lab Client Code:	INT_EEP
Sample Matrix:	Water	Lab No.:	8912129

Batch Sub. No.	Sample Identification	Hydrocarbons (mg/L)
-01	MW-1	<1
-MB	Method Blank	<1

Limit of detection: 1

Method Reference: Std. Method 503E

< = less than, below limit of detection

Clayton ENVIRONMENTAL CONSULTANTS

A Marsh & McLennan Company

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Clayton Use Only	Page 1 of 1
Project No.	26389.00
Batch No.	03[illegible]
Client No.	0799
Date Received	12 / 11 / 89 By TB
Date Logged In	12 / 12 / 89 By TS

SEND INVOICE TO
Name
Company Valley Nissan Dept. EE
Address
City, State, Zip

REPORT RESULTS TO
Name Dariush Dastmalchi Title Geologist
Company Valley Nissan Dept. EE
Mailing Address
City, State, Zip
Telephone No. Telefax No.

Purchase Order No. Client Job No.

Date Results Required: Rush Charges Authorized? ☐ Yes ☐ No

Special Instructions: (method, limit of detection, phone results, rush results, etc.)
* 10ppm D.L.

* Explanation of Preservative: 503E plus w/HCl
3x 40ml 601/602 all pres.

ANALYSIS REQUESTED
(Enter an 'X' in the box below to indicate request; Enter a 'P' if Preservative added*)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	MATRIX/ MEDIA	AIR VOLUME (specify units)	Number of Containers	8015 (Gas/Diesel)*	601/602	602	503E	Hold	FOR LAB USE ONLY
MW-1	12-11-89	Water	2x 1L 2x 40ml	4	X					01 A,B -40ml 01 C,D: 1L
			8 40ml	3		X				01 E,F G
							X			
			8 1L	2				PX		01 H,I
Tej B Bank				1					X	02 A

CHAIN OF CUSTODY (if required)
Relinquished by: Dariush Dastmalchi Date/Time 12-11-89 2120
Relinquished by: Date/Time
Method of Shipment:

Received by: Date/Time
Received at lab by: Date/Time 12/11/89 2 20 pm
Sample condition upon receipt:

Authorized by: _____ Date _____
(Client Signature Must Accompany Request)

Please return completed form and samples to one of the Clayton Environmental Consultants, Inc. labs listed below:

22345 Roethel Drive
Novi, MI 48050
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Edison, NJ 08837
(201) 225-6040

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Suite 490
Kennesaw, GA 30144
(404) 499-7500

1252 Quarry Lane
Pleasanton, CA 94566
(415) 426-2600

DISTRIBUTION:
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YELLOW - Clayton Accounting
PINK - Client Retains

7/89 20K

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

WATER SAMPLING FIELD SURVEY FORM

Job # 26389.00 Site: Valley Nissan/Volvo Date: 12/11/89

Well # MW-1 Sampling Team: Dariush Dastmalchi

Sampling Method: Purging With Electric Pump and Sampling With Teflon Bailer

Field Conditions: Sunny, 18 C

Describe Equipment D-Con Before Sampling This Well: Washed with T.S.P. and Bleach, Rinsed with tap Water, Steam Cleaned and Rinsed with Deionized Water.

Total Depth of Well: 14.95 feet Time: 10:45 AM

Depth to Water Before Pumping: 7.20 feet

Volume Height of Water Column:		Diameter 2-inch	Diameter 4-inch	Volume		Purge Factor		To Purge
7.75	feet *	.16	.65	= 5.04	gal *	5	=	25.2

Depth Purging From: 14 feet Time Surging Begins: 11.05

Notes on Initial Discharge: Turbid

Time	Volume Purged	pH	Conductivity*	T	Notes
11:07	5 gal.	6.2	>5000 Mmhos/Cm	20 C	Turbid
11:11	10	6.8	>5000	20 C	Clear/ Pumped Dry
11:40	15	7.0	>5000	20 C	Clear
12:07	25	7.0	>5000	20 C	Clear/ Pumped Dry
12:20	30	7.0	>5000	20 C	Clear/ Pumped Dry
12:35	35	7.0	>5000	20 C	Clear

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

WATER SAMPLING FIELD SURVEY FORM
(CONTINUED)

Time Field Parameter Measurement Begins: 12:55

	Rep #1	Rep #2	Rep #3	Rep #4
pH	7.0	7.0	7.0	7.0
Conductivity	>5000	>5000	>5000	>5000
T°C	20	20	20	20

Pre-Sample Collection Gallons Purged: 35

Time Sample Collection Begins: 12:45

Time Sample Collection Ends: 12:55

Total Gallons Purged: 37

Comments: *Maximum measurement capability = 5000 Mmhos/Cm